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CONTENTS

	Page
DECISIONS IN PATENT AND TRADE-MARK CASES, August 4, 11, 18, 25	5, 301, 587, 859
TRADE-MARKS:	
Published, August 4, 11, 18, 25	17, 315, 599, 871
Registrations Granted, August 4, 11, 18, 25	49, 340, 623, 893
Registrations Renewed, August 4, 11, 18, 25	60, 356, 635, 904
Registrations Canceled and Surrendered, August 4, 11, 18, 25	—, 358, —, ——
Registrations Amended, Disclaimed, Corrected, Etc., August 4, 11, 18, 25	62, 359, 637, 906
Registrations, New Certificates, August 4, 11, 18, 25	—, —, —, 906
Registrations Republished, August 4, 11, 18, 25	62, 359, 637, 906
REISSUES, August 4, 11, 18, 25	65, —, 641, ——
PLANT PATENTS, August 4, 11, 18, 25	67, 363, —, 909
PATENTS, August 4, 11, 18, 25	68, 364, 643, 910
DESIGNS, August 4, 11, 18, 25	290, 574, 842, 1121

ANNOUNCEMENTS

	Page
APPLICATIONS—Condition of pending	3, 299, 585, 857
NOTICES:	
Adverse decisions in interferences	595, 867
Attorney, Appointment of substitute	10
Cancellation notices:	
Cadillac Wine Distributing Company (*No. 6097*)	10
Dixie Dee Dresses Inc. (*No. 6064*)	10, 311
Classification of inventions:	
Changes in—*Order No. 148*	11
Committee on enrollment—*Order No. 5301*	595
Concurrent use proceeding:	
Lantron, Egbert Leslie (*No. 157*)	10, 311
Disclaimers:	
Crum, Stephen	312
Eaton, Milton	312
Ferngren, Enoch T	10
Kenngott, Robert L	10
Lawrence, Howard C., Jr., et al	595
Lee, Leighton, II	10
Meister, Sam H	595
Minneman, Milton J	595
Parker, Norman W	312
White, Alfred B	867
Wisman, Franklin O	10
Wolff, Irving, et al	595
Woodward, John D	867
Erratum:	
Patent No. 2,648,712 withdrawn from issue	867
Examination for persons seeking registration before U. S. Patent Office—Rule 341(c)	10
Guide for patent draftsmen	311
Interference notice:	
Paulette Laboratories, Inc. (*No. 4946*)	312, 596, 867
Patents, List of adjudicated	10, 311, 595, 867
Trade names, Notices of tentative recordation of	596
Trade-mark registrations, premature filing of applications under Section 8	9
PATENT SUITS	9, 310, 594, 866
REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE	15, 313, 597, 868
TRADE-MARK SUITS	311, 595, 866

TABLE OF CASES REPORTED

	Page
• Clark *v.* Camras	305
• Continental Coffee Co. *v.* Continental Foods, Inc	589
• Copping et al	5
▪ Dalin, David, *v.* Robert C. Watson, Commissioner of Patents	588
• Diamond Fertilizer Co. (The), In re	304
• Hancock *v.* The American Steel & Wire Co. of New Jersey, Etc	592
• Hercules Fasteners, Inc., In re	863
▪ Millard, Emmor H., *v.* Robert C. Watson, Commissioner of Patents	587
• Morway et al. *v.* Bondi	859
▪ Spang et al. *v.* Watson, Commissioner of Patents	589
▪ Westgate-Sun Harbon Company *v.* Robert C. Watson, Commissioner of Patents	301

[Decisions of the United States Court of Appeals District of Columbia Circuit are indicated by the letter (▪); of the United States Court of Customs and Patent Appeals by an asterisk (•).]

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CONTENTS

	Page
DECISIONS IN PATENT AND TRADE-MARK CASES, September 1, 8, 15, 22, 29	5, 263, 545, 831, 1101
TRADE-MARKS:	
Published, September 1, 8, 15, 22, 29	17, 275, 557, 841, 1107
Registrations Granted, September 1, 8, 15, 22, 29	39, 297, 584, 863, 1131
Registrations Renewed, September 1, 8, 15, 22, 29	51, 311, 596, 873, 1141
Registrations Amended, Disclaimed, Corrected, Etc., September 1, 8, 15, 22, 29	53, 314, 598, ——, 1143
Registrations, New Certificates, September 1, 8, 15, 22, 29	53, 314, ——, ——, ——
Registrations Republished, September 1, 8, 15, 22, 29	54, 314, 599, 875, 1143
REISSUES, September 1, 8, 15, 22, 29	57, 317, ——, 879, 1147
PLANT PATENTS, September 1, 8, 15, 22, 29	59, 318, ——, 879, 1148
PATENTS, September 1, 8, 15, 22, 29	60, 319, 605, 880, 1149
ABSTRACTS OF APPLICATIONS, September 1, 8, 15, 22, 29	——, ——, ——, ——, 1364
DESIGNS, September 1, 8, 15, 22, 29	247, 533, 817, 1086, 1370

ANNOUNCEMENTS

	Page
APPLICATIONS—Condition of pending	3, 261, 543, 829, 1099
NOTICES:	
Adverse decisions in interferences	554
Cancellation notice:	
Philip R. Meyers (*No. 6084*)	13, 271, 554
Classification Bulletins Nos. 411 and 412 available for sale	835
Classification of inventions:	
Changes in—*Order No. 149*	835
Disclaimers:	
Adler, Robert	554
Hall, Herbert J	1103
Kellogg, Spencer, 2nd (2 cases)	554
Kirkpatrick, William E., et al	835
Peters, Carl F	1103
Preist, Donald H	835
Turner, Clarence M	554
Patents, List of adjudicated	270, 553, 835, 1103
Trade-mark drawings, In re	1103
PATENT SUITS	12, 269, 553, 834
REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE	14, 272, 555, 837, 1104
TRADE-MARK SUITS	13, 270, 553, 835, 1102

TABLE OF CASES REPORTED

	Page		Page
• Davis et al., In re	5	• Lilienfeld, In re	7
• Eckert, In re	263	• McKenna et al	9
• Eureka Williams Corp. v. McCorquodale	831	• Odeen, In re	545
• Guinot et al. v. Hull	264	• Prutton, In re	550
• Hillerich et al., In re	267	• Schechter et al., In re	545
• Hultquist, In re	1101		

[Decisions of the United States Court of Customs and Patent Appeals are indicated by an asterisk (•).]

Condition of Applications Under Examination at Close of Business August 14, 1953

Total number of patent applications awaiting action, 101,652. Date of oldest new application, October 24, 1952; date of oldest amended application, October 21, 1952.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) KEELY, J. E.			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	11-19-52	11-26-52	1372
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	11-22-52	11-24-52	1216
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	12-17-52	12-17-52	1922
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	11-26-52	11-22-52	1506
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	12-10-52	12 8-52	977
6. SURLE, H., Carbon Chemistry (part)	11-3-52	10-22-52	2780
7. GONSALVES, J. E., Optics; Photography (part)	12-1-52	12-1-52	1673
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	12-8-52	12-8-52	1584
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	11-19-52	11-19-52	1237
10. REYNOLDS, E. R. (NEFF, P. R., Acting), Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	12-18-52	12-15-52	1330
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	11-20-52	11-20-52	1138
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	11-26-52	11-26-52	1222
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work; Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	10-24-52	10-21-52	1278
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	12-12-52	12-1-52	1594
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	11-14-52	11-14-52	1728
16. LOVEWELL, N. N., Television; Telephony; Recorders	11-20-52	11-21-52	1766
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	11-26-52	11-26-52	1531
18. KURZ, J. A., Power Plants; Speed Responsive Devices	1-6-53	11-25-52	783
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	11-20-52	11-18-52	1179
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	12-10-52	12-15-52	1263
21. MADER, R. C., Textiles	11-14-52	11-14-52	1436
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	12-8-52	12-8-52	1082
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	11-17-52	11-14-52	911
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing.	1-14-53	1-14-53	1671
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	11-15-52	11-15-52	1235
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	12-15-52	12-15-52	1908
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	11-22-52	11-19-52	1227
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	12-22-52	12-15-52	1150
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	11-14-52	11-17-52	1085
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	1-27-53	1-27-53	1334
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	11-10-52	11-10-52	2522
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	12-13-52	12-2-52	1246
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	11-19-52	11-21-52	1908
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	11-12-52	11-12-52	1243
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	1-5-53	1-2-53	1200
36. McFADYEN, A. D., Measuring and Testing	12-4-52	12-3-52	1120
37. LEVY, M. L., Electricity-Switches, Welding, Heating	12-17-52	12-19-52	1081
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	12-6-52	12-10-52	1542
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	1-27-53	1-23-53	1004
40. DRUMMOND, E. J., Receptacles (part); Packages	2-2-53	2-2-53	980
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	12-12-52	11-26-52	1389

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors.	11-14-52	11-14-52	2059
43. KNIGHT, W. G., (Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	11-12-52	11-12-52	1849
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	12-10-52	12-3-52	1378
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	11-14-52	11-14-52	1151
47. KANOF W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	11-18-52	11-18-52	1631
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	11-15-52	11-7-52	2111
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	12-2-52	12-2-52	1415
50. BENGEL, W. O., Synthetic Resins; Rubber	2-6-53	2-6-53	1671
51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics.	12-4-52	12-4-52	1627
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	12-30-52	12-31-52	1985
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	12-6-52	12-16-52	1018
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	11-26-52	11-24-52	1832
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	12-9-52	12-8-52	1924
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	12-26-52	12-24-52	1221
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	12-17-52	12-9-52	1746
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	11-15-52	11-19-52	1392
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	12-9-52	12-9-52	1410
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	12-19-52	12-20-52	930
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	12-15-52	12-29-52	1181
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	11-17-52	11-17-52	1984
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	11-25-52	11-25-52	1755
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	12-10-52	12-6-52	810
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	12-30-52	12-15-52	1639
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	12-31-52	12-30-52	1457
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Illumination	11-26-52	11-24-52	1741
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	10-24-52	10-24-52	3508
DESIGNS: A—BREHM, G. L., Industrial Arts	4-15-53	4-17-53	999
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	4-15-53	4-23-53	902

Number of new applications received week ending July 24, 1953

PATENTS 1,390. DESIGNS 94. REISSUES 1. TOTAL 1,485.

Total number of trade-mark applications awaiting action (including renewals and republications), 11,276. Date of oldest new application, March 19, 1953; date of oldest amended application, March 19, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	3-19-53	3-19-53	2911
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	3-19-53	3-25-53	2736
Renewals (All Classes)	6-12-53	7-15-53	455
Republications (All Classes)	6-10-53	6-27-53	254
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	3-22-53	4-1-53	2464
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	4-1-53	3-27-53	2454

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Accident Control Associates: *See*—
Benshoof, Robert E.

Acme Staple Company, Camden, N. J. Stapling machines, binding machines and tacking machines. Serial No. 636,450, Sept. 1. Class 23.

Adam Hat Stores, Inc., New York, N. Y. Men's and boys' hats and caps, dress shirts, outer and under shirts, etc. Serial No. 638,127, Sept. 1. Class 39.

Airex Corporation, New York, N. Y. Fishing and spinning reels, fishing and spinning rods, fishing plugs, etc. Serial Nos. 648,639–40, Sept. 1. Class 22.

Aktiebolaget Addo, Malmo, Sweden. Adding and calculating machines and cash control and bookkeeping machines and parts. Serial No. 638,887, Sept. 1. Class 26.

Aliardyce, Janet F., known in religion as Sister Mary Elisabeth, Chicago, Ill. Tea cosys and small pieces of fancy work. Serial No. 591,064, Sept. 1. Class 40.

Aluminum Company of America, assignee: *See*—
Aluminum Seal Company, Inc.

Aluminum Seal Company, Inc., Richmond, Ind., assignor to Aluminum Company of America, Pittsburgh, Pa. Caps and closure seals for bottles, cans and jars. Serial No. 572,887, Sept. 1. Class 50.

American Brake Shoe Company, New York, N. Y. Rubber-fibre tie pads designed to be used in conjunction with railroad tie plates. Serial No. 632,281, Sept. 1. Class 50.

American Name Plate & Manufacturing Company, Chicago, Ill. Etched and lithographed metal name plates. Serial No. 612,365, Sept. 1. Class 50.

Amplifier Corporation of America, New York, N. Y. Spring motors. Serial No. 637,812, Sept. 1. Class 23.

Anderson Company, The, Gary, Ind. Windshield wiper blades. Serial No. 639,004, Sept. 1. Class 19.

Andrews, O. B., Company, Chattanooga, Tenn. Paperboard shipping cases. Serial No. 635,671, Sept. 1. Class 2.

Anson, Art, Inc., Allentown, Pa. Door knob covers. Serial No. 642,196, Sept. 1. Class 50.

Aristocrat Leather Products, Inc., New York, N. Y. Wallets and billfolds. Serial No. 641,490, Sept. 1. Class 3.

Armstrong Cork Company, Lancaster, Pa. Container closures. Serial No. 637,837, Sept. 1. Class 50.

Asam Wallpapers, Inc., Philadelphia and Reading, Pa. Wallpaper. Serial No. 605,249, Sept. 1. Class 37.

Asch, A., Incorporated, New York, N. Y. House organ type publication. Serial No. 642,338, Sept. 1. Class 38.

Baltic Mills: *See*—
Stout, C. B.

Bantam Books, Inc., New York, N. Y. Books. Serial No. 644,094, Sept. 1. Class 38.

Barbet Mills, Inc., Gastonia, N. C. Fabrics. Serial No. 636,551, Sept. 1. Class 42.

Basila Mfg. Co., Inc., Mobile, Ala. Women's and misses' dresses and housecoats. Serial No. 642,797, Sept. 1. Class 39.

Bates, R. W., Piece Dye Works, Inc., Garnerville, N. Y. Treating rayon and acetate suiting fabrics. Serial No. 642,339, Sept. 1. Class 106.

Bates Shoe Company, Webster, Mass. Men's shoes. Serial No. 636,268, Sept. 1. Class 39.

Bavarian Brewing Company, Inc., Covington, Ky. Beer. Serial No. 519,719, Sept. 1. Class 48.

Beir, Arthur, & Co., Inc., New York, N. Y. Cotton piece goods. Serial No. 633,913, Sept. 1. Class 42.

Belknap Hardware and Manufacturing Company, Louisville, Ky. Adult bicycles. Serial No. 648,354, Sept. 1. Class 19.

Beirug Mills of South Carolina, Greenville, S. C. Loom woven cut pile cotton rugs. Serial No. 644,593, Sept. 1. Class 42.

Benshoof, Robert E., doing business as Accident Control Associates, Burbank, Calif. Consulting engineering services rendered in the field of accident prevention. Serial No. 628,139, Sept. 1. Class 100.

Blake, Dal, doing business as Gregg Tool Company, Gladewater, Tex. Decoy setter. Serial No. 641,121, Sept. 1. Class 22.

Bloomingdale Bros.: *See*—
Federated Department Stores, Inc.

Brand, William, and Co. Inc., The, Willimantic, Conn. Insulating material for electrical insulation. Serial No. 644,893, Sept. 1. Class 21.

Brock & Rankin, Inc., Chicago, Ill. Loose-leaf binders and book covers. Serial No. 625,845, Sept. 1. Class 37.

Burndy Engineering Company, Inc., New York, N. Y. Publication. Serial No. 595,824, Sept. 1. Class 38.

Burns, William E.: *See*—
Cleo Beauty Products Company.

California Goat Dairymen's Assn., Inc., Modesto, Calif. Evaporated goat milk. Serial No. 645,228, Sept. 1. Class 46.

Carwan Woolen Corporation, New York, N. Y. Textile fabrics. Serial No. 639,209, Sept. 1. Class 42.

Cedarville Packing Company, Hoboken, N. J. Canned tomatoes, tomato paste, olive oil, and cheese. Serial No. 593,219, Sept. 1. Class 46.

Chicago Molded Products Corporation, Chicago, Ill. Custom molding of articles from moldable plastic material. Serial No. 633,696, Sept. 1. Class 106.

Clark Equipment Company, Buchanan, Mich. Power operated industrial lift trucks. Serial No. 638,695, Sept. 1. Class 23.

Cleo Beauty Products Company, Boston, Mass., assignee of J. A. Swenson, W. E. Burns, and R. Stead. Non-electrical hair curlers. Serial No. 615,804, Sept. 1. Class 40.

Cleveland Chain & Mfg. Co., The, Cleveland, Ohio. Tire chains. Serial No. 643,755, Sept. 1. Class 13.

Coast-In-Pontiac Co., Inc., Washington, D. C. New and used automotive vehicles. Serial No. 648,914, Sept. 1. Class 19.

Cochran Foil Company, doing business as Cochran Foil Products Co., Louisville, Ky. Paper backed aluminum foil. Serial No. 641,501, Sept. 1. Class 37.

Cochran Foil Products Co.: *See*—
Cochran Foil Company.

Colson Corporation, The, Elyria, Ohio. Lift jacks, upender devices, industrial lifting and stacking trucks and parts thereof, etc. Serial No. 580,229, Sept. 1. Class 23.

Comptoir de l'Industrie Cotonniere Etablissements Boussac Société à Responsabilite Limitee, Paris, France. Textile fabrics. Serial No. 637,817, Sept. 1. Class 42.

Copper Boiler and Heater Wks.: *See*—
Kawalle, Karl J.

Cortland Line Company, Inc., Cortland, N. Y. Fish lines. Serial No. 641,438, Sept. 1. Class 22.

Cutler-Hammer, Inc., Milwaukee, Wis. Panelboards embodying electric circuit breakers. Serial No. 616,360, Sept. 1. Class 21.

D'Arcey, G. W., Co., San Jose, Calif. Games. Serial No. 642,391, Sept. 1. Class 22.

Deering, Milliken & Co., Inc., New York, N. Y. Textile fabrics. Serial No. 637,041, Sept. 1. Class 42.

De Soto Paint & Varnish Co., Memphis, Tenn. Paint products. Serial No. 605,644, Sept. 1. Class 16.

Di Montelera, T. R., Turin, Italy. Hats. Serial No. 597,876, Sept. 1. Class 39.

Donnelley, R. R., & Sons Company, Chicago, Ill. Binding of books, pamphlets, catalogues, magazines, etc. Serial No. 600,950, Sept. 1. Class 106.

Drummondville Cotton Company, Limited, Montreal, Quebec, Canada. Nets for use in the fishing industry. Serial No. 630,835, Sept. 1. Class 22.

Dunlap, L. W., Belton, Mo. Boys' outer shirts. Serial No. 641,768, Sept. 1. Class 39.

Duode Limited, London, England. Loud speakers. Serial No. 637,365, Sept. 1. Class 21.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Lacquer primer-sealer. Serial No. 641,027, Sept. 1. Class 16.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Moulding compounds comprising synthetic rubber-like materials. Serial No. 640,112, Sept. 1. Class 1.

Emanee Office Supply Co., Chicago, Ill. Loose leaf binders; writing paper; lead pencils; etc. Serial No. 599,820, Sept. 1. Class 37.

Euclid Road Machinery Co., The, Euclid, Ohio. Service, maintenance, and repair of internal combustion engines, etc. Serial No. 624,402, Sept. 1. Class 103.

Eveready Sleep Products, Inc., Brooklyn, N. Y. Studio couches. Serial No. 540,623, Sept. 1. Class 32.

Farrington Manufacturing Company, Jamaica Plain, Boston, Mass. Jewel cases. Serial Nos. 642,397–8, Sept. 1. Class 2.

Farrington Manufacturing Company, Jamaica Plain, Boston, Mass. Jewel cases. Serial Nos. 642,402–3, Sept. 1. Class 2.

Fate-Root-Heath Company, The, Plymouth, Ohio. Railroad locomotives, the power source of which is an internal combustion engine. Serial No. 643,828, Sept. 1. Class 23.

Federated Department Stores, Inc., doing business under the name Bloomingdale Bros., Cincinnati, Ohio, and New York, N. Y. Men's wearing apparel. Serial No. 643,947, Sept. 1. Class 39.

Food Machinery and Chemical Corporation, San Jose, Calif. Acetyl peroxide, ammonium persulfate, barium nitrate, etc. Serial No. 645,290, Sept. 1. Class 6.

Foster, M. E., Minneapolis, Minn. Parts charts. Serial No. 632,660, Sept. 1. Class 38.

Fuller, D. B., & Co., Inc., New York, N. Y. Textile fabrics. Serial No. 645,797, Sept. 1. Class 42.

Fuston, H. L., Oak Park, Ill. Ignition circuit breakers. Serial No. 631,238, Sept. 1. Class 21.

Gabriel Sedlmayr, Spaten-Franziskaner-Bräu A. G. München, Munich, Germany. Beer. Serial No. 637,846, Sept. 1. Class 48.

General Electric Company, Schenectady, N. Y. Phonograph styli. Serial No. 601,262, Sept. 1. Class 36.
Gibson-Thomsen Co., Inc., New York, N. Y. Hair brushes, nail brushes, and tooth brushes. Serial No. 641,041, Sept. 1. Class 29.
Goldstein Millinery Company, Chicago, Ill. Women's hats. Serial No. 635,472, Sept. 1. Class 39.
Good Publishing Co., Fort Worth, Tex. Magazine. Serial No. 641,722, Sept. 1. Class 38.
Gottfried Company, The, Cleveland, Ohio. Dresses. Serial No. 643,418, Sept. 1. Class 39.
Graham, John H. & Co. Inc., New York, N. Y. Cordage. Serial No. 643,761, Sept. 1. Class 7.
Grand Rapids Bookcase & Chair Co., Hastings, Mich. Articles of furniture. Serial No. 589,971, Sept. 1. Class 32.
Gregg Tool Company: *See*—
Blake, Dal.
Guilford Woolen Mills Co., Guilford, Maine. Piece goods. Serial No. 636,526, Sept. 1. Class 42.
Harodite Finishing Company, Inc., The, North Dighton, Mass. Textile piece goods. Serial No. 640,398, Sept. 1. Class 42.
Harris, D. P., Hardware & Manufacturing Co., Inc., New York, N. Y. Roller skates. Serial No. 500,566, Sept. 1. Class 22.
Hat Corporation of America, Norwalk, Conn. Hats. Serial No. 643,903, Sept. 1. Class 39.
Heider, Fred: *See*—
Heider, Frederick H.
Heider, Frederick H., doing business as Fred Heider, New York, N. Y. Leisure wear. Serial No. 641,377, Sept. 1. Class 39.
Helms Bakeries, Los Angeles, Calif. Monthly publication. Serial No. 641,299, Sept. 1. Class 38.
Holland-Hessol Co., Inc., New York, N. Y. Women's undergarments. Serial No. 643,587, Sept. 1. Class 39.
Hornung, Jacob, Brewing Co., Philadelphia, Pa. Beer. Serial No. 621,207, Sept. 1. Class 48.
Houston Chronicle Publishing Co., The, Houston, Tex. Daily newspaper. Serial No. 643,686, Sept. 1. Class 38.
Hudson, J. L., Company, The, Detroit, Mich. Men's suits, slacks, jackets and topcoats. Serial No. 621,150, Sept. 1. Class 39.
International Latex Corporation, Dover, Del. Girdles. Serial No. 644,755, Sept. 1. Class 39.
International Rolling Mill Products Corporation, Chicago, Ill. Electrical metallic tubing and standard conduits. Serial Nos. 640,643–4, Sept. 1. Class 21.
Ivler & Pollack, New York, N. Y. Knitted, netted, and textile fabrics. Serial No. 638,363, Sept. 1. Class 42.
Jackson, Byron, Co., Los Angeles, Calif. Pumps. Serial No. 643,961, Sept. 1. Class 23.
K & E Hosiery Co.: *See*—
Kahn, Jack.
Kabo, Inc., Chicago, Ill. Foundation garments. Serial No. 644,762, Sept. 1. Class 39.
Kahn, J., doing business as K & E Hosiery Co., Brooklyn, N. Y. Women's hosiery. Serial No. 643,426, Sept. 1. Class 39.
Kalvig & Co. Inc., Hackensack, Minn. Artificial fishing lures. Serial No. 640,860, Sept. 1. Class 22.
Kawalle, K. J., doing business under the name of Copper Boiler and Heater Wks., Manitowoc, Wis. Automatic electric water heaters, and electric fired heating boilers. Serial No. 640,285, Sept. 1. Class 21.
Kaye, John, & Son Huddersfield Limited, Huddersfield, England, Men's, women's, boys' and girls' aprons, overalls, smocks, etc. Serial No. 639,648, Sept. 1. Class 39.
Kleiss, H. H., Chicago, Ill. Shopping bags. Serial No. 634,789, Sept. 1. Class 2.
Lazy Susan Products, Venice, Fla. Protective and preservative sealer and finisher coating preparation. Serial No. 621,321, Sept. 1. Class 16.
Librascope, Incorporated, Glendale, Calif. Boring machines. Serial No. 644,040, Sept. 1. Class 23.
Lincoln Electric Company, The, Cleveland, Ohio. Electric arc-welding apparatus. Serial No. 637,930, Sept. 1. Class 21.
Louisville Tin and Stove Company, Louisville, Ky. Portable ice chests. Serial No. 638,802, Sept. 1. Class 31.
MacGregor Sport Products Inc.: *See*—
Sport Products, Inc.
Malouf Company, Dallas, Tex. Women's maternity dresses. Serial No. 640,573, Sept. 1. Class 39.
Massachusetts Heating Corporation, Cambridge, Mass. Oil, gas, and coal burners, oil, gas, and coal boiler-burner units, etc. Serial No. 612,211, Sept. 1. Class 34.
Max's, Inc., Cincinnati, Ohio. Men's outer shirts. Serial No. 643,915, Sept. 1. Class 39.
McNaught Syndicate, Inc., The, New York, N. Y. Daily and Sunday comic strip. Serial No. 642,293, Sept. 1. Class 38.
Memphis Cap Co., Inc., Memphis, Tenn. Men's caps. Serial No. 632,531, Sept. 1. Class 39.
Memphis Cap Co., Inc., Memphis, Tenn. Men's hats. Serial No. 632,532, Sept. 1. Class 39.
Meteor Electric Corporation, Brooklyn, N. Y. Electric connector plugs; electric receptacles; electric cutouts, etc. Serial No. 636,793, Sept. 1. Class 21.
Midcontinent Twine Company: *See*—
Tritach, Maynard.
Midland Wire Corporation, Tiffin, Ohio. Polyethylene insulated electric wires and cables. Serial No. 642,040, Sept. 1. Class 21.
Midland Wire Corporation, Tiffin, Ohio. Neoprene insulated electric wires and cables. Serial No. 642,041, Sept. 1. Class 21.
Modi-Graphic Inc., Cincinnati, Ohio. Cameras. Serial No. 640,220, Sept. 1. Class 26.
Moe Light, Inc., Fort Atkinson, Wis. Electric lighting fixtures and parts thereof. Serial No. 639,702, Sept. 1. Class 21.
Moore, Benjamin, & Co., New York, N. Y. Paint enamels. Serial No. 631,015, Sept. 1. Class 16.
Moore, Benjamin, & Co., New York, N. Y. Ready mixed paints. Serial No. 631,017, Sept. 1. Class 16.
Moore, Benjamin, & Co., New York, N. Y. Enamels. Serial No. 631,365, Sept. 1. Class 16.
Moore, Benjamin, & Co., New York, N. Y. Paint oil. Serial No. 639,586, Sept. 1. Class 16.
N. V. Electroproducten, The Hague, Netherlands. Electric cycle lighting sets. Serial No. 633,208, Sept. 1. Class 21.
N. V. Nederlandsche Machinefabriek "Artillerie Inrichtingen," Hembrug, Zaandam, Netherlands. Farm trailers. Serial No. 621,081, Sept. 1. Class 19.
National Tinsel Manufacturing Company, Manitowoc, Wis. Christmas tree decorations. Serial No. 641,077, Sept. 1. Class 50.
Naumkeag Steam Cotton Company, Salem, Mass. Sheets and pillow cases. Serial No. 642,155, Sept. 1. Class 42.
Nobil Shoe Company, The, Akron, Ohio. Women's hosiery. Serial No. 626,527, Sept. 1. Class 39.
Northland Ski Manufacturing Company, North St. Paul, Minn. Hockey sticks, skis, toboggans, and snow shoes. Serial No. 645,054, Sept. 1. Class 22.
Nuclear Instrument and Chemical Corporation, Chicago, Ill. Radio-active radiation apparatus. Serial No. 583,110, Sept. 1. Class 26.
Osborne Company, The, Clifton, N. J. Blotters, mechanical pencils, fountain pens, etc. Serial No. 633,865, Sept. 1. Class 37.
Pagliuso Engineering Company: *See*—
Pagliuso, R. J.
Pagliuso, R. J., doing business as Pagliuso Engineering Company, Glendale, Calif. Spring-propelled mechanical toy race cars and fire engines. Serial No. 646,422, Sept. 1. Class 22.
Patchogue-Plymouth Mills Corporation, New York, N. Y. Woven fibre rugs, woven fibre draperies, etc. Serial No. 644,252, Sept. 1. Class 42.
PeKay Leather Products, Inc., doing business as Saddle-Craft Shoe Company, Knoxville, Tenn. Hand-made sandals. Serial No. 633,554, Sept. 1. Class 39.
Penn Ventilator Company, Philadelphia, Pa. Powered roof ventilators. Serial No. 632,322, Sept. 1. Class 34.
Perfection Frocks, Inc., New York, N. Y. Ladies' dresses and house coats. Serial No. 644,500, Sept. 1. Class 39.
Perfection Frocks, Inc., New York, N. Y. Ladies' house dresses and aprons. Serial No. 644,567, Sept. 1. Class 39.
Phoenix Hosiery Company, Milwaukee, Wis. Women's hosiery. Serial No. 641,325, Sept. 1. Class 39.
Polaroid Corporation, Cambridge, Mass. Devices for applying protective coatings to photographic reproductions. Serial No. 631,570, Sept. 1. Class 26.
Pollak Industrial Corp., Stratford, Conn., and New York, N. Y. Hat bodies. Serial No. 643,710, Sept. 1. Class 39.
Port Fertilizer & Chemical Company, Los Fresnos, Tex. Fertilizers. Serial No. 643,184, Sept. 1. Class 10.
Progress Paint Mfg. Co., Inc., Louisville, Ky. Wall paints, floor paints, house paints, etc. Serial No. 640,527, Sept. 1. Class 16.
Rabaldo A. G., Unterengstringen, Zurich, Switzerland. Power-actuated shavers and dry shavers. Serial No. 610,026, Sept. 1. Class 23.
Rand McNally & Company, Chicago, Ill. Candy. Serial No. 637,839, Sept. 1. Class 46.
Rand Rubber Co.: *See*—
Rand Rubber Company, Inc.
Rand Rubber Company, Inc., trading as Rand Rubber Co., Brooklyn, N. Y. Water repellent baby pants. Serial No. 640,168, Sept. 1. Class 39.
Reed, Austin, Ltd., London, England. Dress clothing. Serial No. 528,422, Sept. 1. Class 39.
Reliance Manufacturing Company, Chicago, Ill. Women's, misses', and girls' dresses. Serial No. 642,771, Sept. 1. Class 39.
Reynolds Manufacturing Company, Springfield, Mo. Brake drums, and resilient axle suspensions for automotive trucks and trailers. Serial No. 617,931, Sept. 1. Class 19.
Root & Company: *See*—
Root, Nathan.
Root, Nathan, doing business as Root & Company, Grand Rapids, Mich. Dry cleaning of textile articles. Serial No. 613,144, Sept. 1. Class 103.
Roscoe Dust Cloth Service, Inc., Chicago, Ill. Dust cloths. Serial No. 640,868, Sept. 1. Class 29.
Rotaprint U. S. A. Inc., Joliet, Ill. Printing presses, duplicating machines, and attachments therefor. Serial No. 628,514, Sept. 1. Class 23.
Saddle-Craft Shoe Company: *See*—
PeKay Leather Products, Inc.

Saticoy Lemon Association, Saticoy, Calif. Fresh citrus fruits. Serial No. 644,792, Sept. 1. Class 46.
Schneider, Raymond C., Manhattan, Kans. Sun hat. Serial No. 641,331, Sept. 1. Class 39.
Schonbrunn, S. A., & Co., Inc., New York, N. Y. Coffee, tea, and rice. Serial No. 639,342, Sept. 1. Class 46.
Sears, Roebuck and Co., Chicago, Ill. Brush and comb sets. Serial No. 629,326, Sept. 1. Class 40.
Seminole Flavor Company, Chattanooga, Tenn. Lemon flavored carbonated non-alcoholic non-cereal maltless beverages. Serial No. 617,069, Sept. 1. Class 45.
Severin, Gordon H., Oklahoma City, Okla. Simulated golf game. Serial No. 589,993, Sept. 1. Class 22.
Shawvan, John K., Washington, D. C. Cemetery monuments. Serial No. 622,962, Sept. 1. Class 50.
Sheertex Hosiery, Inc., Woodbury, N. J. Women's hosiery. Serial No. 640,870, Sept. 1. Class 39.
Shippers Supply Co. of N. E., The: *See*—
Thompson, Frederic P.
Sister Mary Elizabeth: *See*—
Allardyce, Janet F.
Skuttle Manufacturing Company, Detroit, Mich. Temperature and humidity controls. Serial No. 624,372, Sept. 1. Class 26.
Societe Francaise Radio-Electrique, Paris, France. Electron tubes. Serial No. 638,613, Sept. 1. Class 21.
Solar Aircraft Company, San Diego, Calif. Ceramic coated exhaust structures for internal combustion engines, etc. Serial No. 642,702, Sept. 1. Class 23.
Sommer & Kaufmann, San Francisco, Calif. Boots and shoes. Serial No. 648,460, Sept. 1. Class 39.
South Bend Toy Mfg. Co., South Bend, Ind. Musical doll carriages. Serial No. 644,460, Sept. 1. Class 22.
Sport Products, Inc., Cincinnati, Ohio, now by change of name MacGregor Sport Products Inc. Rubber covered game balls. Serial No. 635,065, Sept. 1. Class 22.
Standard Rayon Underwear Co., New York, N. Y. Clothing. Serial No. 639,670, Sept. 1. Class 39.
Stead, Richard: *See*—
Cleo Beauty Products Company.
Sterling Machinery Corporation, Kansas City, Mo., and Los Angeles, Calif. Portable self-priming centrifugal pumps, power hoists and winches, portable wood-sawing rigs, etc. Serial No. 618,133, Sept. 1. Class 23.
Stern Brothers, New York, N. Y. Ironing board covers and clothes pins. Serial No. 639,496, Sept. 1. Class 34.
Stern Brothers, New York, N. Y. Books. Serial No. 639,503, Sept. 1. Class 38.
Stetson, John B., Company, Philadelphia, Pa. Hats, caps and gloves. Serial No. 641,476, Sept. 1. Class 39.
Stevens, J. P., & Co. Inc., New York, N. Y. Diapers. Serial No. 635,496, Sept. 1. Class 39.
Stewart, F. W., Mfg. Corp., Chicago, Ill. Speedometers and parts thereof, and instruments for testing speedometers and tachometers. Serial No. 622,044, Sept. 1. Class 26.
Stewart, J. & G., Limited, Edinburgh, Scotland. Scotch whisky. Serial No. 633,237, Sept. 1. Class 49.
Stout, C. B., doing business as Baltic Mills, Memphis, Tenn. Wheat flour. Serial No. 576,079, Sept. 1. Class 46.
Style Art Clothes, Inc., New York, N. Y. Men's suits, sport coats, overcoats, topcoats, etc. Serial No. 639,853, Sept. 1. Class 39.
Summit Mills Corporation, New York, N. Y. Sport shirts. Serial No. 632,857, Sept. 1. Class 39.
Super Speed Press Corporation, Bridgeton, N. J. Metal cutting presses. Serial No. 613,201, Sept. 1. Class 23.
Swan-Finch Oil Corporation, New York, N. Y. Internal combustion engine lubricating oils, gear lubricants, lubricating greases, etc. Serial No. 626,760, Sept. 1. Class 15.
Swenson, James A.: *See*—
Cleo Beauty Products Company.
Technology Instrument Corporation, Waltham, Mass. Instruments for measuring the phase angle between alternating currents or voltages. Serial No. 577,620, Sept. 1. Class 26.
Thompson, Frederic P., doing business as The Shippers Supply Co. of N. E., Watertown, Mass. Stencil ink, fountain marker ink, ink stamp pads, etc. Serial No. 641,158, Sept. 1. Class 11.
Thor Corporation, Chicago, Ill. Food storage freezers. Serial No. 640,248, Sept. 1. Class 31.
Trailercoach Dealers National Association, Chicago, Ill. Magazine. Serial No. 644,810, Sept. 1. Class 38.
Tritach, Maynard, doing business as Midcontinent Twine Company, Plattsmouth, Nebr. Baler twine and binder twine. Serial No. 642,254, Sept. 1. Class 7.
Tube Turns, Inc., Louisville, Ky. Metal forgings. Serial No. 625,700, Sept. 1. Class 14.
Union Carbide and Carbon Corporation, New York, N. Y. Ferrochrome. Serial No. 624,251, Sept. 1. Class 14.
Universal Form Clamp Co., Chicago, Ill. Concrete construction forms and parts for the forms. Serial No. 628,823, Sept. 1. Class 12.
Veltov Dimitar, New York, N. Y. Harmonicas. Serial No. 626,923, Sept. 1. Class 26.
Waite Carpet Co., Oshkosh, Wis. Textile rugs and carpets. Serial No. 636,617, Sept. 1. Class 42.
Waite Carpet Company, Oshkosh, Wis. Textile rugs and carpets. Serial Nos. 640,180–1, Sept. 1. Class 42.
Waite Carpet Company, Oshkosh, Wis. Textile rugs and carpets. Serial Nos. 643,517–20, Sept. 1. Class 42.
Walter, Louis, & Co., Inc., Kansas City, Mo. Women's coats and suits. Serial No. 643,287, Sept. 1. Class 39.
Wamsutta Mills, New Bedford, Mass. Piece goods. Serial No. 638,390, Sept. 1. Class 42.
Wamsutta Mills, New Bedford, Mass. Cotton piece goods. Serial No. 638,382, Sept. 1. Class 42.
Wamsutta Mills, New Bedford, Mass. Cotton piece goods. Serial No. 642,102, Sept. 1. Class 42.
Washington Steel Products, Inc., Tacoma, Wash. Door catches, door hinges, and rolling door hangers. Serial No. 643,802, Sept. 1. Class 13.
Webb Forging Company, Belleville, Mich. Forgings of ferrous and nonferrous metals. Serial No. 634,483, Sept. 1. Class 14.
Weltronic Company, Southfield Township, Oakland County, and Detroit, Mich. Monthly publication. Serial No. 632,878, Sept. 1. Class 38.
Wennonah Cotton Mills Company, Lexington, N. C. Textile fabrics. Serial No. 637,342, Sept. 1. Class 42.
Wesco Waterpaints, Inc., Berkeley, Calif. Flat wall paint. Serial No. 621,005, Sept. 1. Class 16.
Wheeling Corrugating Company, Wheeling, W. Va. Metal lath. Serial No. 642,790, Sept. 1. Class 12.
Wilen Brothers, Inc., Philadelphia, Pa. Wines. Serial No. 620,638, Sept. 1. Class 47.
Wilrick, Inc., New York, N. Y. Fruit flavored maltless soft drinks and concentrates. Serial No. 642,249, Sept. 1. Class 45.
World Automobile Association, Inc., Charleston, S. C. Furnishing or assisting motorists and owners of motor vehicles in obtaining emergency automobile repair and towing services, etc. Serial No. 623,626, Sept. 1. Class 105.
Wright-Johnston Inc., Columbia, S. C. Men's suits, trousers, topcoats, etc. Serial No. 643,015, Sept. 1. Class 39.
Wrought Iron Range Company, St. Louis, Mo. Coal, wood, gas and oil cooking ranges, space heaters, floor furnaces, etc. Serial No. 620,646, Sept. 1. Class 34.
Wrought Iron Range Company, St. Louis, Mo. Coal, wood, gas and oil cooking ranges, space heaters, floor furnaces, etc. Serial No. 620,651, Sept. 1. Class 34.
Zion Countryside Bakers: *See*—
Zion Industries, Inc.
Zion Industries, Inc., doing business as Zion Countryside Bakers, Zion, Ill. Baker's confections. Serial No. 640,829, Sept. 1. Class 46.

LIST OF REGISTRANTS OF TRADE-MARKS

A. P. V. Co., Ltd., London, England. Combined system of machines for pasteurizing and cooling milk, fruit juices, and wines. 579,281, Sept. 1; Serial No. 614,915, published May 5, 1953. Class 34.
Acclaim Hosiery Mills, Inc., High Point, N. C. Ladies' hosiery. 579,409. Sept. 1; Serial No. 611,253. Class 39.
Aceites Bau, S. A., Madrid, Spain. Olive oil. 579,488, Sept. 1; Serial No. 561,707. Class 46.
Adams, Ruth, Minneapolis, Minn. Skin cream cleanser. 579,381. Sept. 1; Serial No. 633,905, published May 19, 1953. Class 51.
Adelt, Carl W., doing business as Uni-Therm Company, Mays Landing, N. J. Chimney caps. 579,348, Sept. 1; Serial No. 629,409, published May 26, 1953. Class 34.
Advance Glove Manufacturing Company, Detroit, Mich. Woven fabric gloves. 574,986, May 26, 1953. Corrected. O. G. Sept. 1. Class 39.
Advance Glove Manufacturing Company, Detroit, Mich. Palm and finger stall protective covers for gloves. 574,989, May 26, 1953. Corrected. O. G. Sept. 1. Class 39.
Aladdin Laboratories, Inc., Minneapolis, Minn. Liquid fuel catalytic type hand warmers. 579,393, Sept. 1; Serial No. 635,113, published May 12, 1953. Class 34.
Albers Super Markets, Inc., Cincinnati, Ohio. Cookies. 579,499, Sept. 1; Serial No. 641,825, published June 2, 1953. Class 46.
Allen & Hanburys, Limited, London, England. Medicinal laxative preparation. 304,065, registered June 20, 1933. Republished Sept. 1. Class 18.

Allen, S. L., & Co., Inc., Philadelphia, Pa. Garden cultivators. 306,116, Sept. 5, 1933. Republished Sept. 1. Class 23.

Allied Stores Corporation, New York, N. Y. Women's, misses' and juniors', dresses. 579,424, Sept. 1; Serial No. 637,855, published June 2, 1953. Class 39.

American Cranberry Exchange, Incorporated, New York, N. Y. Cranberry sauce, cranberry jelly. 193,249, Dec. 23, 1924. Amended. O. G. Sept. 1. Class 46.

American Cyanamid Company, New York, N. Y. Vitamin preparation. 579,303, Sept. 1; Serial No. 622,705, published May 26, 1953. Class 18.

American Platinum Works, to Baker & Company, Inc., Newark, N. J. Dental alloy. 307,267, renewed Oct. 24, 1953. O. G. Sept. 1. Class 44.

American Writing Paper Co., by American Writing Paper Corporation, Holyoke, Mass. Book-paper. 92,388, July 8, 1913. Republished Sept. 1. Class 37.

American Writing Paper Corporation: *See*—
American Writing Paper Co.

Amole, Incorporated, Dayton, Ohio. Facial cream preparations, toilet preparation and hand creams. 579,315, Sept. 1; Serial No. 625,389, published May 12, 1953. Class 51.

Amplifier Corporation of America, New York, N. Y. Magnetically operated recording and playback apparatus. 579,298, Sept. 1; Serial No. 621,496, published June 2, 1953. Class 21.

Anthony, C. E., Company, Oklahoma City, Okla. Woven fabric. 579,362, Sept. 1; Serial No. 632,236, published June 9, 1953. Class 42.

Archer Rubber Company, Milford, Mass. Rubberized fabrics. 303,342, renewed May 23, 1953. O. G. Sept. 1. Class 42.

Arden, Elisabeth, Inc., to Elisabeth Arden Sales Corporation, New York, N. Y. Soap. 307,998, renewed Nov. 14, 1953. O. G. Sept. 1. Class 52.

Arden, Elisabeth, Sales Corporation: *See*—
Arden, Elisabeth, Inc.

Aristocrat Leather Products, Inc., New York, N. Y. Wallets and billfolds. 579,510, Sept. 1; Serial No. 632,010. Class 3.

Arlite Industries, Inc., Newark, N. J. Storm windows and storm window frames. 579,300, Sept. 1; Serial No. 621,651, published May 19, 1953. Class 12.

Armour and Company, assignee: *See*—
Lookout Oil and Refining Company.

Arvin Electric Limited, Southend-on-Sea, England. Dry shavers, safety razors, straight razors, and hair clippers. 579,294, Sept. 1; Serial No. 620,333, published May 12, 1953. Class 23.

Athletic Products Company: *See*—
Athletic Products Company, Inc.

Athletic Products Company, Inc., South Bend, Ind., assignee of Athletic Products Company. Athletic knee brace. 579,508, Sept. 1; Serial No. 625,709. Class 22.

Atlas Powder Company, Wilmington, Del. Detonators. 579,430, Sept. 1; Serial No. 638,054, published June 9, 1953. Class 9.

August, Jacob, doing business as Jack August's, Northampton, Mass. Canned clam chowder, bottled tartar sauce, canned fish chowder, etc. 579,376–7, Sept. 1; Serial No. 633,482–3, published June 2, 1953. Class 46.

August's, Jack: *See*—
August, Jacob.

Austin, J. H., Company: *See*—
Austin, James H.

Austin, James H., doing business as J. H. Austin Company, Charlotte, N. C. Vitamin preparation. 579,386, Sept. 1; Serial No. 634,361, published June 9, 1953. Class 18.

Axelson, J. Henry, doing business as Swedish Boy Bakery, Seattle, Wash. Bread. 579,382–3, Sept. 1; Serial No. 633,956–7, published June 9, 1953. Class 46.

Baker & Company, Inc.: *See*—
American Platinum Works.

Baker Laboratories, Inc., The, Cleveland, Ohio. Infant food. 579,328, Sept. 1; Serial No. 627,036, published Jan. 27, 1953. Class 46.

Balata, Victor & Textile Belting Co., Easton, Pa., and New York, N. Y. Sifter brushes. 579,293, Sept. 1; Serial No. 620,241, published May 12, 1953. Class 23.

Ballard & Ballard Co., Louisville, Ky., assignor to Pillsbury Mills, Inc. Uncooked or unbaked dough. 579,239, Sept. 1; Serial No. 541,387, published June 2, 1953. Class 46.

Baltimore Brushes, Inc., Boston, Mass. Paint and varnish brushes. 579,457, Sept. 1; Serial No. 639,687, published June 9, 1953. Class 29.

Band-It Company, Denver, Colo. Industrial pressure clamps and parts thereof. 579,243, Sept. 1; Serial No. 552,409, published June 9, 1953. Class 13.

Barbet Mills, Inc., Lexington, N. C. Knitted fabrics. 579,463, Sept. 1; Serial No. 640,253, published June 9, 1953. Class 42.

Barco Brass & Joint Co., Chicago, to F. N. Bard, Barrington, Ill. Pipe joints and connections and flexible pipe-joints and cut-out valves. 91,309, re-renewed Apr. 29, 1953. O. G. Sept. 1. Class 13.

Bard, Francis N.: *See*—
Barco Brass & Joint Co.

Bari, Jean, & Co., Inc. Import-Export, Cliffside Park, N. J. Canned tomatoes, tomato paste, manufactured macaroni, cheese. 579,456, Sept. 1; Serial No. 639,406, published June 2, 1953. Class 46

Bartmann & Bizer, Inc., New York, N. Y. Window curtains. 579,452, Sept. 1; Serial No. 639,310, published June 2, 1953. Class 42.

Bauer, Eddie, Seattle, Wash. Sportswear, aviation clothing. 579,398, Sept. 1; Serial No. 635,809, published May 19, 1953. Class 39.

Beautee-Fit Company, Los Angeles, Calif. Brassières, foundation garments, girdles, etc. 579,388, Sept. 1; Serial No. 634,444, published June 9, 1953. Class 39.

Beautiful Bryans, Inc.: *See*—
Bryan Full Fashioned Mills.

Bee-Jay Bait Co., North Kansas City, Mo. Fish bait. 579,470, Sept. 1; Serial No. 641,901, published June 2, 1953. Class 22.

Begg, Norm, Co., Newport Beach, Calif. Fishing rods. 579,338, Sept. 1; Serial No. 627,863, published June 9, 1953. Class 22.

Bendel, Henri, Company, Paris, France, to Bourjois, Inc., New York, N. Y. Perfumes and toilet waters. 305,396, renewed Aug. 15, 1953. O. G. Sept. 1. Class 51.

Bernfeld, Jules E., trading as Jules, Alexandria and Arlington, Va. Permanent wave solution. 579,313, Sept. 1; Serial No. 625,092, published May 19, 1953. Class 51.

Berry Brothers, by Berry Brothers, Inc., Detroit, Mich. Varnishes. 92,782, July 29, 1913. Republished Sept. 1. Class 16.

Berry Brothers, Inc.: *See*—
Berry Brothers.

Betmar Hats, Inc., New York, N. Y. Hats and hat bodies. 579,509, Sept. 1; Serial No. 629,833. Class 39.

Big Bear Stores Company, Columbus, Ohio. Coffee and tea for blended flour. 579,256, Sept. 1; Serial No. 595,118, published June 2, 1953. Class 46.

Bleach-Ox Chemical Co.: *See*—
Rosati, Luigi.

Bond Stores, Incorporated, to Bond Stores, Incorporated, New York, N. Y. Men's and boy's suits, trousers, coats, vests; etc. 305,592, renewed Aug. 22, 1953. O. G. Sept. 1. Class 39.

Borum Boat Company, Inc., Jacksonville, Fla. Speed boats, motor cruisers, yachts, and motor-propelled racing craft. 579,519, Sept. 1; Serial No. 644,097. Class 19.

Boudreaux, Charles J., Abbeville, La. Ointment. 579,288, Sept. 1; Serial No. 617,334, published June 2, 1953. Class 18.

Bourjois, Inc.: *See*—
Bendel, Henri, Company.

Boy-Crest Clothes, Inc., New York, N. Y. Boys' suits and slacks. 579,344, Sept. 1; Serial No. 628,464, published June 2, 1953. Class 39.

Bronzini, Ltd., New York, N. Y. Men's neckties, handkerchiefs, gloves, etc. 579,405, Sept. 1; Serial No. 636,338, published June 2, 1953. Class 39.

Brunssen, George, Co., to George Brunssen Company, Incorporated, New York, N. Y. Uniform hats, caps, etc. 90,963, Apr. 8, 1913. New certificate. O. G. Sept. 1. Class 39.

Brunssen, George, Company, Incorporated: *See*—
Brunssen, George, Co.

Bryan Full Fashioned Mills, now by merger and change of name Beautiful Bryans, Inc., Chattanooga, Tenn. Hosiery. 579,506, Sept. 1; Serial No. 624,445. Class 39.

Buchanan, Grace T.: *See*—
Tetlow, Joseph.

Burrus Mills, Incorporated: *See*—
Liberty Mills.

Burton, W., & Co., Inc., to Fred Fear & Co., Brooklyn, N. Y. Flavoring extracts and imitations thereof and food flavoring syrups. 304,115, renewed June 20, 1953. O. G. Sept. 1. Class 46.

Butler Brothers, Chicago, Ill. Piece goods. 579,436, Sept. 1; Serial No. 638,472, published June 2, 1953. Class 42.

CBS-Hytron: *See*—
Columbia Broadcasting System, Inc.

Cabin Crafts, Inc., Dalton, Ga. Bath rugs and lid covers, bedspreads, and textile carpets and rugs. 579,453, Sept. 1; Serial No. 639,312, published June 9, 1953. Class 42.

Campbell Holton & Co., Bloomington, Ill. Canned fruit, rice, sauerkraut, etc. 579,273, Sept. 1; Serial No. 612,453, published Sept. 23, 1952. Class 46.

Carew & Powers Co.: *See*—
Powers, Harold W.

Carolina Handkerchief Company, Inc., West End, N. C. Handkerchiefs. 579,498, Sept. 1; Serial No. 605,943. Class 39.

Carrier Engineering Company Limited, London, England. Machine for cleaning, rust-proofing, priming, and painting sheet metal articles. 579,246, Sept. 1; Serial No. 567,499, published May 12, 1953. Class 23.

Chase Brass & Copper Co. Incorporated, to Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Metal pipe. 303,992, renewed June 13, 1953. O. G. Sept. 1. Class 13.

Chase Brass & Copper Co. Incorporated, to Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Metal pipe. 303,994, renewed June 13, 1953. O. G. Sept. 1. Class 13.

Chase Brass & Copper Co. Incorporated, to Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Angles, wire, and sheet-metal. 303,995, renewed June 13, 1953. O. G. Sept. 1. Class 14.

Chase Brass & Copper Co. Incorporated, to Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Sheet-metal and wire. 304,538, renewed July 11, 1953. O. G. Sept. 1. Class 14.

Chemical Rubber Co., The, Cleveland, Ohio. Fine chemicals. 579,259, Sept. 1; Serial No. 603,047, published June 9, 1953. Class 6.

Chicagoland Golf, Inc., Chicago, Ill. Periodical magazine. 579,315, Sept. 1; Serial No. 636,770. Class 38.

Chili Products Corporation Ltd., Los Angeles, Calif. Chili pepper. 579,481, Sept. 1; Serial No. 643,646, published June 2, 1953. Class 46.

Chili Products Corporation Ltd., Los Angeles, Calif. Chili pepper. 579,482, Sept. 1; Serial No. 643,648, published June 2, 1953. Class 46.

Chili Products Corporation Ltd., Los Angeles, Calif. Chili powder. 579,483, Sept. 1; Serial No. 643,649, published June 2, 1953. Class 46.

Chu, Paul E., Honolulu, Hawaii. Solid hair brilliantine, pomade, and liquid brilliantine. 579,286, Sept. 1; Serial No. 616,816, published Apr. 28, 1953. Class 51.

Church & Dwight Co., Inc., New York and Syracuse, N. Y. Table salt. 579,479, Sept. 1; Serial No. 643,029, published June 9, 1953. Class 46.

Churngold Corporation, The: *See*—
Ohio Butterine Co., The.

Ciba Pharmaceutical Products, Inc., Summit, N. J. Preparation for sex hormone therapy. 579,339, Sept. 1; Serial No. 628,091, published June 2, 1953. Class 18.

Cisco-California, Inc., Los Angeles, Calif. Ladies', men's, and boys' swimsuits and swimming trunks. 579,415, Sept. 1; Serial No. 637,361, published June 2, 1953. Class 39.

Claire Manufacturing Company, Chicago, Ill. Moth proofing preparation. 579,401, Sept. 1; Serial No. 635,996, published June 9, 1953. Class 6.

Clark, Henry N., Co., Boston, Mass. Cooking ranges. 579,385, Sept. 1; Serial No. 634,238, published May 26, 1953. Class 34.

Clavin, Joseph, & Co. Inc., New York, N. Y. Men's overcoats, sport jackets, and men's suits. 579,443, Sept. 1; Serial No. 638,754, published June 2, 1953. Class 39.

Cleveland Skate Co., Inc., The, Cleveland, Ohio. Roller skates and parts thereof. 579,450, Sept. 1; Serial No. 639,741, published June 2, 1953. Class 22.

Clinton Foods Inc., New York, N. Y. Quick frozen concentrated orange juice. 579,399, Sept. 1; Serial No. 635,872, published June 9, 1953. Class 46.

Cloquet Creamery, Cloquet, Minn. Ice cream. 305,452. renewed Aug. 15, 1953. O. G. Sept. 1. Class 46.

Cochran Co., Inc.: *See*—
Ferguson, Wm. C.

Columbia Broadcasting System, Inc., doing business as CBS-Hytron, New York, N. Y., and Danvers, Mass. Electronic tubes. 579,421, Sept. 1; Serial No. 637,645, published May 12, 1953. Class 21.

Columbia River Packers Association, to Columbia River Packers Association, Inc., Astoria, Oreg. Canned salmon. 93,077–8, re-renewed Aug. 19, 1953. O. G. Sept. 1. Class 46.

Columbia River Packers Association, Inc.: *See*—
Columbia River Packers Association.

Cone Mills Inc., New York, N. Y. Fabrics. 579,440. Sept. 1; Serial No. 638,699, published June 9, 1953. Class 42.

Cone Mills Inc., New York, N. Y. Fabrics. 579,451, Sept. 1; Serial No. 639,265, published June 9, 1953. Class 42.

Continental Copper & Steel Industries, Inc., Perth Amboy, N. J. Television antennae. 579,490, Sept. 1; Serial No. 581,179. Class 21.

Continental Grill, Wichita, Kans. Sandwiches and bakery goods. 579,291, Sept. 1; Serial No. 619,451, published June 2, 1953. Class 46.

Copco Steel & Engineering Company, Detroit, Mich. Corrosion-resistance coated metal building and construction materials. 579,292, Sept. 1; Serial No. 620,198, published May 19, 1953. Class 12.

Coty, Inc., New York, N. Y. Lipstick, rouge, and face powder. 579,327, Sept. 1; Serial No. 626,861, published Apr. 28, 1953. Class 51.

Creek Chub Bait Company, The, Garrett, Ind. Artificial fish lures. 579,343, Sept. 1; Serial No. 628,347, published June 9, 1953. Class 22.

Crown Cork & Seal Company, Inc., Baltimore, Md. Machines for capping or vacuum capping jars and other containers. 579,307, Sept. 1; Serial No. 623,752, published Feb. 10, 1953. Class 23.

Cultiguard Shovel Company, Waldo, Ohio. Power drawn cultivator shovels. 579,284; Sept. 1; Serial No. 616,225, published Feb. 10, 1953. Class 23.

Cummins Engine Company, Inc., Columbus, Ind. Internal combustion engines and parts thereof. 579,346, Sept. 1; Serial No. 628,850, published Feb. 24, 1953. Class 23.

Dakota Improved Seed Company, Mitchell, S. Dak. Flower, vegetable, and cereal seeds. 92,323, re-renewed July 1, 1953. O. G. Sept. 1. Class 1.

Davega-City Radio Stores, Inc., New York, N. Y. Golf balls. 304,294, June 27, 1933. Corrected. O. G. Sept. 1. Class 22.

Davega-City Radio Stores, Inc., New York, N. Y. Roller skates and handball gloves. 304,648, July 11, 1933. Corrected. O. G. Sept. 1. Class 22.

Davies & Meacham, Cleveland, Ohio. Dry and mixed paints, etc. 91,464, May 6, 1913. Amended. O. G. Sept. 1. Class 16.

Davies Nitrate Co., Inc., New York, N. Y. Enriched organic plant food. 579,278, Sept. 1; Serial No. 614,291, published June 9, 1953. Class 10.

Davis Bros. Fisheries Co., Inc., Gloucester, Mass. Canned fish. 579,492, Sept. 1; Serial No. 588,202. Class 46.

Dean, Robert J., doing business as Radio-Games Service, New York, N. Y. Advertising the goods and services of others. 579,486, Sept. 1; Serial No. 606,370, published June 9, 1953. Class 101.

Deep Run Packing Company: *See*—
Smith, Willard H.

De Land, C. M., New York, N. Y. Textile fabrics. 579,437. Sept. 1; Serial No. 638,478, published June 9, 1953. Class 42.

Delira Corporation, Los Angeles, Calif. Toy pistols, toy tents, toy lassos, etc. 579,488, Sept. 1; Serial No. 638,525, published June 2, 1953. Class 22.

Denkert, M., & Company, Johnstown, N. Y. Baseball gloves and mitts, foot balls, basket balls and volley ball's. 579,445, Sept. 1; Serial No. 638,902, published June 2, 1953. Class 22.

Dieterich Products Corporation, Michigan City, Ind. Automobile anti-skid stabilizer. 579,476, Sept. 1; Serial No. 642,625, published June 9, 1953. Class 19.

Diston, Henry, & Sons, Inc., Philadelphia, Pa. Saws, planer knives, and circular knives. 306,052, Sept. 5, 1933. Republished Sept. 1. Class 23.

Dorset Woolen Company, Providence, to Dorset Woolen Company, Slocum, R. I. Woven textile fabrics. 307,606, renewed Oct. 31, 1953. O. G. Sept. 1. Class 42

Dulken, Charles F. Kearny, N. J. Chemical liquid. 579 317. Sept. 1; Serial No. 625,587, published June 9, 1953. Class 6.

Duluth Universal Milling Company, Duluth, Minn. Wheat flour. 579,264. Sept. 1; Serial No. 607,662, published June 2, 1953. Class 46.

Dumari Textile Co., Inc., New York, N. Y. Fabrics. 306,401, renewed Sept. 19, 1953. O. G. Sept. 1. Class 42.

Dunham, C. A., Company, Chicago, Ill. Finned tube convectors. 579,251, Sept. 1; Serial No. 586,688, published May 5, 1953. Class 34.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Sulfonated alcohols. 304,032, June 20, 1933. Republished Sept. 1. Class 6.

Elastic Stop Nut Corporation of American, Union, N. J., assignee of Mid-Continent Metal Products Company. Spring pin fasteners. 579,237, Sept. 1; Serial No. 531,615, published June 9, 1953. Class 13.

Ellison & Spring, Inc., New York, N. Y. Woven table cloths and woven table napkins. 579,462, Sept. 1; Serial No. 640,149, published June 9, 1953. Class 42.

Eng'ander Company, Inc., The: *See*—
Fort Pitt Bedding Company.

Escondido Lemon Association: *See*—
Escondido Orange Association.

Escondido Lemon Association, Escondido, Calif. Fresh citrus fruit. 579,240, Sept. 1; Serial No. 545,109, published June 9, 1953. Class 46.

Escondido Orange Association, Escondido, Calif., assignee of Escondido Lemon Association. Fresh citrus fruits. 579,241–2, Sept. 1; Serial Nos. 545,110–11, published June 2, 1953. Class 46.

Everite Manufacturing Company, The, New York, N. Y. Overnight cases, week-end cases, wardrobe trunks, etc. 579,489, Sept. 1; Serial No. 568,999. Class 3.

Excelsior Leather Washer Manufacturing Co., Rockford, Ill. Cup leathers, valve and plunger leathers, flange leathers, etc. 303,322, renewed May 23, 1953. O. G. Sept. 1. Class 35.

Expectation Shops, San Francisco, Calif. Maternity garments. 579,420, Sept. 1; Serial No. 637,514, published June 9, 1953. Class 39.

Factor, Max, & Co., Hollywood, Calif. Cosmetics. 579,263, Sept. 1; Serial No. 606,373, published May 12, 1953. Class 51.

Fear, Fred, & Co.: *See*—
Burton, W., & Co., Inc.

Federal Cartridge Corporation, Minneapolis, Minn. Air rifle shot. 579,446, Sept. 1; Serial No. 638,954, published June 9, 1953. Class 9.

Ferguson, Wm. C., Stockton, to Cochran Co., Inc., Tracy, Calif. Fresh vegetables. 305,865, renewed Aug. 29, 1953. O. G. Sept. 1. Class 46.

Feu Hermanos Responsabilidade Limitada, Portimao, Portugal. Canned sardines. 579,329, Sept. 1; Serial No. 627,057, published May 12, 1953. Class 46.

Fishermen's Co-Operative Federation: *See*—
Queen Charlotte Canners, Limited.

Fishkop, Martin, & Co., St. Louis, Mo. Ladies' and misses' skirts. 579,434, Sept. 1; Serial No. 638,357, published June 9, 1953. Class 39.

Flintkote Company, The: *See*—
Flintkote Corporation, The.
Pioneer Paper Company.

Flintkote Corporation, The, by The Flintkote Company, New York, N. Y. Bituminous emulsions and emulsion compounds for use as protective coatings. 305,188, Aug. 8, 1933. Republished Sept. 1. Class 16.

Foote Mineral Company, Philadelphia, Pa. Dry, completely soluble household bleaching agent. 579,350, Sept. 1; Serial No. 629,939, published June 9, 1953. Class 6.

Ford Motor Company, Dearborn, Mich. Motor cars. 579,484, Sept. 1; Serial No. 643,873, published June 2, 1953. Class 19.

Ford Steel Products Corporation, of New York: *See*—
Ford, Wellman B.

Ford, Wellman B., doing business under the name and style of Ford Steel Products Corporation, of New York, Tarrytown, N. Y. Electric water heaters. 579,441, Sept. 1; Serial No. 638,709, published June 2, 1953. Class 21.

Fort Pitt Bedding Company, Pittsburgh, Pa., to The Englander Company, Inc., Chicago, Ill. Mattresses. 307,703, renewed Oct. 31, 1953. O. G. Sept. 1. Class 32.

Fox, M. Ewing, Co., Inc., New York, N. Y. Water paint. 303,810, renewed June 6, 1953. O. G. Sept. 1. Class 16.

Francesco Bertolli S. P. A., Lucca, Italy. Olive oil. 298,441, renewed Oct. 25, 1952. O. G. Sept. 1. Class 46.

Friedman-Marks Clothing Co., Inc., Richmond, Va. Men's suits and coats. 579,400, Sept. 1; Serial No. 635,914, published May 19, 1953. Class 39.

Fruit Products Corporation, New York, N. Y. Imitation chocolate coating. 579,290, Sept. 1; Serial No. 618,961, published June 2, 1953. Class 46.

Fuller, D. B., & Co., Inc., New York, N. Y. Textile fabrics. 579,518, Sept. 1; Serial No. 643,950. Class 42.

Gabriel Sedlmayr Spaten-Franziskaner-bräu Aktiengesellschaft München: *See*—
Gabriel u. Jos. Sedlmayr Spaten-Franziskaner-Leistbräu A.-G. München.

Gabriel u. Jos. Sedlmayr Spaten-Frenziskaner-Leistbräu A.-G. München, to Gabriel Sedlmayr Spaten-Franziskaner-bräu Aktiengesellschaft München, Munich, Germany. Malt beverage. 304,894, renewed July 18, 1953. O. G. Sept. 1. Class 48.

Gazzoni, A., & C., Bologna, Italy. Powders for making effervescent water used as an alkalizing agent. 579,308, Sept. 1; Serial No. 623,758, published June 2, 1953. Class 18.

General Dyestuff Corporation, New York, N. Y. Dyestuffs. 306,207, Sept. 12, 1933. Republished Sept. 1. Class 6.

General Jobbing Co. Inc., Oklahoma City, Okla. Wiping cloths. 579,468, Sept. 1; Serial No. 641,775, published June 9, 1953. Class 29.

General Motors Corporation, Detroit, Mich. Reflectors. 579,390, Sept. 1; Serial No. 634,585, published May 5, 1953. Class 34.

General Motors Corporation, Detroit, Mich. Automobiles. 579,485, Sept. 1; Serial No. 644,297, published June 9, 1953. Class 19.

Gerts and Cook, Inc., Los Angeles, Calif. Asphalt tile. 579,261, Sept. 1; Serial No. 605,790, published Apr. 28, 1953. Class 12.

Glencoe Mills, Burlington, N. C. Cotton piece goods. 579,372, Sept. 1; Serial No. 632,933, published June 2, 1953. Class 42.

Goldblatt Bros. Inc., Chicago, Ill. Automobile seat covers. 579,474, Sept. 1; Serial No. 642,219, published June 9, 1953. Class 19.

Goodwin, Louise C., Arlington, Tex. Ceramic dolls. 579,439, Sept. 1; Serial No. 638,532, published June 9, 1953. Class 22.

Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Pennants, banners, and prize ribbons; etc. 579,265, Sept. 1; Serial No. 607,992, published May 19, 1953. Class 50.

Grand Aerie Fraternal Order of Eagles Kansas City, Mo. Pennants, banners, and prize ribbons; etc. 579 266, Sept. 1; Serial No. 607,995, published May 19, 1953. Class 50.

Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Pennants, banners, and prize ribbons; etc. 579,267, Sept. 1; Serial No. 607,999, published May 19, 1953. Class 50.

Great American Knitting Mills, Inc., Bechtelsville, Pa. Hosiery. 306,606, renewed Dec. 12, 1953. O. G. Sept. 1. Class 39.

Hall Broadcasting and Television Company, Inc., doing business as Palmetto Broadcasting System, and/or Palmetto Network, Anderson, S. C. Broadcasting of radio and television programs. 579,487, Sept. 1; Serial No. 608,000, published June 9, 1953. Class 104.

Hall, Hartwell & Co., Troy, to Hallmark Shirt Co. Inc., New York, N. Y. Collars, cuffs, and dress, negligee, and work shirts. 91,087, re-renewed Apr. 15, 1953. O. G. Sept. 1. Class 39.

Hall Laboratories, Incorporated, Pittsburgh, Pa. Chemical engineering services. 579,521, Sept. 1; Serial No. 504,217. Class 100.

Hall, Robert, Clothes, Inc., New York, N. Y. Men's suits. 579,325, Sept. 1; Serial No. 626,626, published June 2, 1953. Class 39.

Hallmark Shirt Co. Inc.: *See*—
Hall, Hartwell & Co.

Hal-Pro Processing Company, Patton, Pa. Disinfectant, deodorant, and germicide. 579,412, Sept. 1; Serial No. 637,049, published June 9, 1953. Class 6.

Hammond Laboratory. *See*—
Hammond Research Corporation.

Hammond Research Corporation, doing business as Hammond Laboratory, Gloucester, Mass. Shaving cream. 579,258, Sept. 1; Serial No. 598,792, published May 19, 1953. Class 51.

Hardedite Finishing Company, Inc., The, North Dighton, Mass. Textile piece goods. 579,465, Sept. 1; Serial No. 640,397, published June 9, 1953. Class 42.

Harrower Laboratory, Inc., The, Jersey City, N. J. Medicinal preparation. 579,450, Sept. 1; Serial No. 639,042, published May 26, 1953. Class 18.

Hassler, Kenneth, New York, N. Y. Caps. 579,332, Sept. 1; Serial No. 627,306, published May 19, 1953. Class 39.

Hat Corporation of America, Norwalk, Conn. Hats. 579,411, Sept. 1; Serial No. 636,961, published June 2, 1953. Class 39.

Hauserman, E. F., Company, The, Cleveland, Ohio. Movable partitions of metal, wood, or composite material and parts of such partitions. 579,277, Sept. 1; Serial No. 613,371, published Apr. 28, 1953. Class 12.

Hays Corporation, The, Michigan City, Ind. Oxygen absorbers. 305,494, renewed Aug. 15, 1953. O. G. Sept. 1. Class 6.

Healthways, Los Angeles, Calif. Rubber horseshoes. 579,371, Sept. 1; Serial No. 632,840, published June 9, 1953. Class 22.

Heim, Jacques, Paris, France. Ladies', misses', and children's hosiery. 579,517, Sept. 1; Serial No. 642,816. Class 39.

Her Majesty Underwear Company, Leola, Pa., and New York, N. Y. Women's underwear, nightgowns and pajamas, slips, etc. 579,359, Sept. 1; Serial No. 631,615, published June 9, 1953. Class 39.

Hercules Powder Company, Wilmington, Del. Smokeless powder. 93,598, Sept. 30, 1913. Republished Sept. 1. Class 9.

Holland-Rantos Company, Inc., New York, N. Y. Prophylactic rubber articles. 306,185, renewed Nov. 21, 1953. O. G. Sept. 1. Class 44.

Holland House Coffee and Tea Corp., Long Island City, N. Y. Tea. 579,333, Sept. 1; Serial No. 627,291, published June 2, 1953. Class 46.

Honig Corporation, The, Los Angeles, Calif. Hair and scalp lotion. 579,279, Sept. 1; Serial No. 614,504, published May 12, 1953. Class 51.

Hood, Arthur J., Reno, Nev. Barbecue units. 579,387, Sept. 1; Serial No. 634,412, published May 26, 1953. Class 34.

House of Swansdown, Inc., The, New York, N. Y. Woolen and worsted fabrics. 579,391, Sept. 1; Serial No. 634,595, published June 9, 1953. Class 42.

House of Swansdown, Inc., The, New York, N. Y. Woolen and worsted fabrics. 579,394, Sept. 1; Serial No. 635,183, published June 9, 1953. Class 42.

Hudson Motor Car Company, Detroit, Mich. Automobiles and automobile bodies. 579,460, Sept. 1; Serial No. 639,823, published June 9, 1953. Class 19.

Hygiene Research, Inc., New York, N. Y. Protective jel for application and rubbing into the skin. 579,427, Sept. 1; Serial No. 637,923, published May 19, 1953. Class 51.

Hy-Pro Tool Company, New Bedford, Mass. Bits for hand and machine screwdrivers. 579,496, Sept. 1; Serial No. 604,478. Class 23.

Impulse Items, New York, N. Y. Women's and girls' hats. 579,287, Sept. 1; Serial No. 616,855, published May 26, 1953. Class 39.

Inland Fire Brick Company, The, Cleveland, Ohio. Refractory cement. 579,289, Sept. 1; Serial No. 618,262, published May 19, 1953. Class 12.

Instruments Publishing Company, Inc., The, Pittsburgh, Pa. Publication. 579,512, Sept. 1; Serial No. 633,615. Class 38.

Inter-Collegiate Press, by Inter-Collegiate Press, Inc., Kansas City, Mo. Unfinished, printed, engraved, and lithographed greeting cards; etc. 305,736, Aug. 22, 1933. Republished Sept. 1. Class 38.

Inter-Collegiate Press, Inc.: *See*—
Inter-Collegiate Press.

Johnson, Gladys M., Timber, Oreg. Playing card holder. 579,375, Sept. 1; Serial No. 633,208, published June 9, 1953. Class 22.

Jolly Rancher, Incorporated, The, Wheat Ridge, Colo. Candy. 579,454, Sept. 1; Serial No. 639,332, published June 2, 1953. Class 46.

Joseph's, Portland, Oreg. Window and shower curtains, ruffling for rodless curtains, and tablecloths. 579,319, Sept. 1; Serial No. 626,208, published June 9, 1953. Class 42.

Juilliard, A. D., & Co., Inc., New York, N. Y. Woolen piece goods. 579,431, Sept. 1; Serial No. 638,087, published June 9, 1953. Class 42.

Jules: *See*—
Bernfeld, Jules E.

Kallaian, Rose, Rug Co., Kansas City, Mo. Cleaning fluid. 579,504, Sept. 1; Serial No. 623,514. Class 52.

Kayser, Julius, & Co., New York, N. Y. Gloves. 579,429, Sept. 1; Serial No. 637,997, published June 2, 1953. Class 39.

Kelly, Marcus G., San Diego, Calif. Maternity articles of apparel. 579,360, Sept. 1; Serial No. 632,091, published June 9, 1953. Class 39.

Kerr's Butter Scotch, Inc., Jamesburg, N. J. Candy. 579,245, Sept. 1; Serial No. 589,150, published June 9, 1953. Class 46.

Keuffel & Esser Company, Hoboken, N. J. Drawing-paper. 40,516–19, re-renewed June 9, 1953. O. G. Sept. 1. Class 37.

Keuffel & Esser Company, Hoboken, N. J. Tracing-paper. 40,522, re-renewed June 9, 1953. O. G. Sept. 1. Class 37.

Keuffel & Esser Company, Hoboken, N. J. Blue-print paper. 40,523, re-renewed June 9, 1953. O. G. Sept. 1. Class 37.

Keuffel & Esser Company, Hoboken, N. J. All kinds of papers. 40,667, re-renewed June 30, 1953. O. G. Sept. 1. Class 37.

Keuffel & Esser Company, Hoboken, N. J. Slide-rules. 93,448, re-renewed Sept. 16, 1953. O. G. Sept. 1. Class 26.

Keuffel & Esser Company, Hoboken, N. J. Slide rules. 208,069, renewed Nov. 21, 1953. O. G. Sept. 1. Class 26.

Kingston Products Corporation, Kokomo, Ind. Electric vacuum cleaners, radio receiving sets, battery chargers, etc. 579,295, Sept. 1; Serial No. 620,500, published June 2, 1953. Class 21.

Kinney Manufacturing Company, Boston, Mass. Rotary liquid pumps. 579,330, Sept. 1; Serial No. 627,060, published May 12, 1953. Class 23.

Koentopp, Albert P., doing business under the name of Albert P. Koentopp and Koentopp Home Ranch, Santa Ana, Calif. Fresh citrus fruit. 579,495, Sept. 1; Serial No. 603,690. Class 46.

Koentopp Home Ranch: *See*—
Koentopp, Albert P.

Kress, S. H., and Company, New York, N. Y. Floor mops. 579,442, Sept. 1; Serial No. 638,720, published June 2, 1953. Class 29.

Lake Chemical Co., Chicago, Ill. Pipe caulking compound. 579,246, Sept. 1; Serial No. 560,276, published May 19, 1953. Class 12.

Landers Corporation, The, Toledo, Ohio. Flexible plastic sheeting or film. 579,320, Sept. 1; Serial No. 626,389, published May 19, 1953. Class 50.

Leeds Travelwear Corporation, New York, N. Y. Carrying cases or bags for cameras, films and photographic supplies. 579,494, Sept. 1; Serial No. 602,460. Class 26.

Leo Products: *See*—
Sautter, Karl H.

Lesley, Jerry P., Sunset, S. C. Men's and women's knitted shirts. 579,416, Sept. 1; Serial No. 637,381, published May 26, 1953. Class 39.

Liberty Mills, San Antonio, to Burrus Mills, Incorporated, Dallas, Tex. Wheat flour. 333,381, Mar. 17, 1936. New certificate. O. G. Sept. 1. Class 46.

Lind & Lind, Seattle, Wash. Canned cat food. 579,395, Sept. 1; Serial No. 633,367, published June 2, 1953. Class 46.

Litkenhous, E. E., doing business as Litko Products and Chemical Company, Nashville, Tenn. Fine chemicals and oil-chemical mixtures. 579,353, Sept. 1; Serial No. 630,274, published June 9, 1953. Class 6.

Litko Products and Chemical Company: *See*—
Litkenhous, E. E.

Lodge and Shipley Company, The, Cincinnati, Ohio. Machine tools. 579,302, Sept. 1; Serial No. 622,242, published May 12, 1953. Class 23.

Loeser, Frederick, & Co., Inc., to Namm-Loeser's, Inc., Brooklyn, N. Y. Hosiery. 307,671, renewed Oct. 31, 1953. O. G. Sept. 1. Class 39.

Loft Candy Corporation, also doing business as Loft Candy Shops, Long Island City, N. Y. Ice cream. 579,341, Sept. 1; Serial No. 628,156, published June 2, 1953. Class 46.

Loft Candy Shops: *See*—
Loft Candy Corporation.

Lookout Oil and Refining Company, Chattanooga, Tenn., assignor to Armour and Company. Lard. 579,231, Sept. 1; Serial No. 627,201, published June 2, 1953. Class 46.

Lucas Products Corporation, Toledo, Ohio. Preparation for use as an antiseptic, germicide, and deodorant. 579,379, Sept. 1.; Serial No. 633,776, published May 26, 1953. Class 18.

Lucky Strike Perfumeries Corporation, New York, N. Y. After shave lotion, brilliantine, eau de cologne, etc. 579,306, Sept. 1; Serial No. 623,557, published May 12, 1953. Class 51.

M. G. Car Company Limited, The, Abingdon, England. Automobiles and structural parts thereof. 305,646, renewed Aug. 22, 1953. O. G. Sept. 1. Class 19.

Mack's Industries, Incorporated, Waterloo, Iowa. Machines for applying and binding tape to the edges of photographic transparency slides. 579,493, Sept. 1; Serial No. 600,396. Class 26.

Maison Jeurelle, Inc., Chicago, Ill., to Seventeen, Rye, N. Y. Cream rouge, eye shadow, rouge, cleansing cream, etc. 307,947, renewed Nov. 14, 1953. O. G. Sept. 1. Class 51.

Manchester Knitted Fashions, Inc., Manchester, N. H. Men's, women's, boys' and girls' knitted and woven outerwear. 579,432, Sept. 1; Serial No. 638,205, published June 2, 1953. Class 39.

Mantia, John, & Sons, to John Mantia & Sons Co., Inc., Boston, Mass. Fresh fish fillets. 301,176, renewed Feb. 21, 1953. O. G. Sept. 1. Class 46.

Mantia, John, & Sons Co., Inc.: *See*—
Mantia, John, & Sons.

Marbeler Products, Inc., New York, N. Y. Glass building materials. 579,511, Sept. 1; Serial No. 624,840, published May 19, 1953. Class 12.

Marcantel Medicine Co., Inc., Elton, La. Vitamin tonic, cough syrup, medicinal mineral oil, and rubbing alcohol. 579,345, Sept. 1; Serial No. 628,501, published May 26, 1953. Class 18.

Marglen, Juliette, Inc., Los Angeles, Calif. Preparations for repairing, preserving, and beautifying finger nails and toe nails. 579,361, Sept. 1; Serial No. 632,164, published May 19, 1953. Class 51.

Markowitz, Frank, New York, N. Y. Fresh tomatoes. 579,516, Sept. 1; Serial No. 642,675. Class 46.

Markwell Manufacturing Co., Inc., New York, N. Y. Crayons. 579,505, Sept. 1; Serial No. 624,345. Class 37.

Marlboro Fabrics, Inc., New York, N. Y. Fabrics in the piece. 579,242, Sept. 1; Serial No. 628,215, published June 2, 1953. Class 42.

Maurice Fabricant, New York, N. Y. Perfumes, toilet waters, colognes, etc. 579,265, Sept. 1; Serial No. 632,554, published Apr. 28, 1953. Class 51.

Maurice Fabricant, New York, N. Y. Perfumes, toilet waters colognes, etc. 579,366, Sept. 1; Serial No. 632,555, published May 12, 1953. Class 51.

Maurice Fabricant, New York, N. Y. Perfumes, toilet waters, colognes, etc. 579,367, Sept. 1; Serial No. 632,557 published Apr. 28, 1953. Class 51.

Maurice Fabricant, New York, N. Y. Perfumes, toilet waters, colognes, cologne sticks, etc. 579,368, Sept. 1; Serial No. 632,559, published Apr. 28, 1953. Class 51.

Mayer, Oscar, & Co., Inc.: *See*—
Modern Food Process Company.

Mayers, David, doing business as Selecto Tie Company, Baltimore, Md. Men's neckties and belts. 579,518, Sept. 1; Serial No. 634,103. Class 39.

McCorquodale, Wilmer E., Orange, Tex. Automatic gas water heaters. 579,238, Sept. 1; Serial No. 537,805, published June 8, 1948. Class 34.

McCoy's Products, Inc., New York, N. Y. Mineral tablets. 579,260, Sept. 1; Serial No. 605,230, published June 2, 1953. Class 18.

Merck & Co., Inc., Rahway, N. J. Antibiotic and vitamin supplements. 579,406, Sept. 1; Serial No. 634,724, published June 2, 1953. Class 18.

Merit Clothing Company, Mayfield, Ky. Men's suits. 579,235, Sept. 1; Serial No. 627,692, published May 19, 1953. Class 39.

Mid-Continent Metal Products Company: *See*—
Elastic Stop Nut Corporation of America.

Milburn, Alexander, Inc., Baltimore, Md. Gas cutting and welding apparatus. 579,290, Sept. 1; Serial No. 614,888, published May 12, 1953. Class 34.

Miller and Rhoads, Incorporated, Richmond, Va. Fireplace equipment. 579,504, Sept. 1; Serial No. 623,114, published May 26, 1953. Class 24.

Minnesota Mining and Manufacturing Company, St. Paul, Minn. Reels for magnetic sound-recording tape. 579,447, Sept. 1; Serial No. 638,967, published June 2, 1953. Class 21.

Minnesota Mining and Manufacturing Company, St. Paul, Minn. Non-magnetic tape. 579,448, Sept. 1; Serial No. 638,968, published June 2, 1953. Class 21.

Modern Food Process Company, to Oscar Mayer & Co., Inc., Philadelphia, Pa. Ham. 307,669, renewed Oct. 31, 1953. O. G. Sept. 1. Class 46.

Moe Light, Inc., Fort Atkinson, Wis. Electric lighting fixtures and parts thereof. 579,407, Sept. 1; Serial No. 636,648, published June 2, 1953. Class 21.

Monsanto Chemical Company, St. Louis, Mo. Chemicals. 579,402, Sept. 1; Serial No. 636,025, published June 9, 1953. Class 6.

Morris Manufacturing Company: *See*—
Slimovitz, Morris L.

Mosel, Charles, Chicago, Ill. Men's apparel; outer shirts, sport shirts, sport coats, etc. 579,369, Sept. 1; Serial No. 632,628, published May 19, 1953. Class 39.

Monsoon, J. G., & Co., Frankfurt am Main, Germany. Lavender water, brilliantine, talcum powder, etc. 579,314, Sept. 1; Serial No. 625,320, published May 19, 1953. Class 51.

Meyer, Walter W., Company, Ephrata, Pa. Men's underwear. 579,271, Sept. 1; Serial No. 610,575, published May 26, 1953. Class 39.

Meyer, Walter W., Company, Ephrata, Pa. Women's hosiery and underwear. 579,272, Sept. 1; Serial No. 610,576, published May 26, 1953. Class 39.

N. V. Fridor Fabrieken, The Hague, Netherlands. Electrical sewing machines. 579,349, Sept. 1; Serial No. 629,686, published Apr. 14, 1953. Class 23.

Namm-Loeser's, Inc.: *See*—
Loeser, Frederick, & Co., Inc.

Napier, Elon L, Columbus, Ga. Hot and mild barbecue sauce. 579,406, Sept. 1; Serial No. 636,373, published June 2, 1953. Class 46.

Naugatuck Chemical Company, The, by United States Rubber Company, New York, N. Y. Latex composition. 304,318, June 27, 1933. Republished Sept. 1. Class 1.

New England Fish Company: *See*—
Warren Packing Company.

New York Belting and Packing Company, assignee: *See*—
New York Belting & Packing Co. Ltd.

New York Belting & Packing Co. Ltd., assignor to New York Belting and Packing Company, by United States Rubber Company, New York, N. Y. Belting, hose, and packing. 91,013, Apr. 8, 1913. Republished Sept. 1. Class 35.

Northrup, King & Co., Minneapolis, Minn. Fodder-corn seeds. 90,234, re-renewed Feb. 11, 1953. O. G. Sept. 1. Class 1.

Ohio Butterine Co., The, to The Churngold Corporation, Cincinnati, Ohio. Oleomargarin. 94,023, re-renewed Oct. 28, 1953. O. G. Sept. 1. Class 46.

Old Colony Envelope Company, Westfield, Mass. Writing and printing paper and mailing envelopes. 254,986, Apr. 2, 1929. Republished Sept. 1. Class 37.

Old Colony Envelope Company, Westfield, Mass. Writing and printing paper and mailing envelopes. 256,602, May 21, 1929. Republished Sept. 1. Class 37.

Old Colony Envelope Company, Westfield, Mass. Envelopes. 270,923, May 20, 1930. Republished Sept. 1. Class 37.

Olympia Büromaschinenwerke A. G., Wilhelmshaven, Germany. Typewriters and parts thereof. 579,310, Sept. 1; Serial No. 624,520, published Feb. 24, 1953. Class 23.

Oronite Chemical Company: *See*—
Standard Oil Company of California.

Overseas Finance & Trading Company, Inc., San Francisco, Calif. Instruments for measuring the radii of curvature, dimensions, etc. 579,501, Sept. 1; Serial No. 619,407. Class 26.

Palmetto Broadcasting System: *See*—
Hall Broadcasting and Television Company, Inc.

Palmetto Network: *See*—
Hall Broadcasting and Television Company, Inc.

Parkwood Corporation: *See*—
Parkwood Laminates, Inc.

Parkwood Laminates, Inc., Wakefield, Mass., assignee of Parkwood Corporation. Material consisting of natural wood veneer. 579,270, Sept. 1; Serial No. 609,310, published May 19, 1953. Class 12.

Peirce and Company, Los Angeles, Calif. Wool carpeting. 579,425, Sept. 1; Serial No. 637,885, published June 2, 1953. Class 42.

Penn Ventilator Company, Philadelphia, Pa. Powered roof ventilators. 579,363, Sept. 1; Serial No. 632,328, published May 5, 1953. Class 34.

Periwinkle, Inc., New York, N. Y. Certain garments for children. 579,373, Sept. 1; Serial No. 632,954, published May 26, 1953. Class 39.

Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Medical preparation. 579,312, Sept. 1; Serial No. 625,034, published June 2, 1953. Class 18.

Piedmont Shirt Company, Greenville, S. C. Men's and boys' shirts, undershirts, under-shorts, etc. 579,414, Sept. 1; Serial No. 637,287, published June 2, 1953. Class 39.

Pillsbury Mills, Inc.: *See*—
Ballard & Ballard Co.

Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. 579,247, Sept. 1; Serial No. 565,450, published June 2, 1953. Class 46.

Pioneer Paper Company, Los Angeles, Calif., by The Flintkote Company, New York, N. Y. Bituminous emulsions. 302,734, Apr. 25, 1933. Republished Sept. 1. Class 12.

Plymouth Cordage Company, Plymouth and North Plymouth, to Plymouth Cordage Company, Plymouth, Mass. Hard fibre rope. 308,264, renewed Nov. 28, 1953. O. G. Sept. 1. Class 7.

Plymouth Cordage Company, Plymouth and North Plymouth, to Plymouth Cordage Company, Plymouth, Mass. Hard fibre rope. 308,267, renewed Nov. 28, 1953. O. G. Sept. 1. Class 7.

Polychrome Corporation, Yonkers, N. Y. Hand cream. 579,268, Sept. 1; Serial No. 608,122, published May 18, 1953. Class 51.

Portable Electric Tools, Inc., Chicago, Ill. Electrically operated apparatus and tools. 579,409, Sept. 1; Serial No. 636,862, published June 2, 1953. Class 21.

Portis Style Industries, Inc., Chicago, Ill. Men's hats. 579,364, Sept. 1; Serial No. 632,326, published June 2, 1953. Class 39.

Powers, Harold W., doing business as Carew & Powers Co., Boston, Mass. Candy. 579,503, Sept. 1; Serial No. 623,476. Class 46.

Precision Diamond Products, Ltd., London and Fulham, London, England. Abrasive wheel dressers and parts thereof. 579,276, Sept. 1; Serial No. 613,064, published May 12, 1953. Class 23.

Premier Popcorn Co., Watseka, Ill. Popcorn. 579,378, Sept. 1; Serial No. 633,506, published June 2, 1953. Class 46.

Putt-Master, Phoenix, Ariz. Golf putters. 579,480, Sept. 1; Serial No. 643,371, published June 9, 1953. Class 22.

Queen Charlotte Canners, Limited, Massett, Queen Charlotte Islands, British Columbia, to Fishermen's Co-operative Federation, Vancouver, British Columbia, Canada. Fresh, frozen, and canned shell fish, etc. 567,794, Dec. 9, 1952. New certificate. O. G. Sept. 1. Class 46.

Queen Charlotte Canners, Limited, Massett, Queen Charlotte Islands, British Columbia, to Fishermen's Co-operative Federation, Vancouver, British Columbia, Canada. Fresh, frozen, and canned shell fish, etc. 567,796, Dec. 9, 1952. New certificate. O. G. Sept. 1. Class 46.

Quell Products Company, The, Arlington, Va. Toy kits. 579,244, Sept. 1; Serial No. 558,068, published June 9, 1953. Class 22.

Radio-Games Service: *See*—
Dean, Robert J.

Ralston Purina Company, St. Louis, Mo. Water disinfectant. 579,275, Sept. 1; Serial No. 612,825, published June 9, 1953. Class 6.

Redi-Food Co., New York, N. Y. Cleaned and frozen uncooked shrimps. 579,500, Sept. 1; Serial No. 612,871. Class 46.

Republic Steel Corporation, Youngstown, to Republic Steel Corporation, Cleveland, Ohio. Tin mill black plate and coke tin plate. 307,977, renewed Nov. 14, 1953. O. G. Sept. 1. Class 14.

Rex Hosiery Finishers, Inc., Philadelphia, Pa. Finishing hosiery. 579,522, Sept. 1; Serial No. 606,085. Class 106.

Ricci Laboratories, Inc., New York, N. Y. Balanced vitamin and amino acid supplement. 579,309, Sept. 1; Serial No. 624,296, published May 26, 1953. Class 18.

Richardson Company, The, Lockland, Cincinnati, Ohio. Containers for electric storage batteries. 579,444, Sept. 1; Serial No. 638,872, published June 2, 1953. Class 21.

Riethmiller, R., Columbus, Ohio. Packaged installation system. 579,297, Sept. 1; Serial No. 621,227, published May 19, 1953. Class 12.

Robertshaw-Fulton Controls Company, Greensburg, Pa. Valves operated by an electromagnet. 579,321, Sept. 1; Serial No. 626,417, published June 9, 1953. Class 21.

Robertshaw-Fulton Controls Company, Greensburg, Pa. Metal valves and cocks. 579,322, Sept. 1; Serial No. 626,418, published June 9, 1953. Class 13.

Robertshaw-Fulton Controls Company, Greensburg, Pa. Valves operated by an electromagnet. 579,323, Sept. 1; Serial No. 626,419, published June 9, 1953. Class 21.

Rockford Screw Products Co., Rockford, Ill. Socket head screws, drive screws, cap screws, etc. 579,440, Sept. 1; Serial No. 638,977, published June 2, 1953. Class 13.

Roethlisberger & Fils, S. A.: *See*—
Roethlisberger & Sohn A. G.

Roethlisberger & Sohn A. G., trading also as Roethlisberger & Fils, S. A., Langnau, Berne Canton, Switzerland. Cheese. 579,255, Sept. 1; Serial No. 501,638, published May 26, 1953. Class 46.

Rohm & Haas Company, Philadelphia, Pa. Material for use in removing or replacing ions or acid-forming constituents from fluids. 579,397, Sept. 1; Serial No. 635,663, published June 9, 1953. Class 6.

Romanoff Caviar Company, New York, N. Y. Imported Russian sturgeon caviar. 307,758, renewed Oct. 31, 1953. O. G. Sept. 1. Class 46.

Rosati, L., doing business as Bleach-Ox Chemical Co., Bethlehem, Pa. Compound in the nature of a disinfectant, bleach, cleanser, and deodorant. 579,250, Sept. 1; Serial No. 580,857, published June 2, 1953. Class 52.

Rose, J., & Co., Inc., Brooklyn, N. Y. Cooking ranges. 579,404, Sept. 1; Serial No. 636,254, published May 5, 1953. Class 34.

Rosenberg, A. A., New York, N. Y. Ear muffs. 579,433, Sept. 1; Serial No. 638,315, published June 2, 1953. Class 39.

Roth, Chester H., Co., Inc., New York, N. Y. Hosiery. 301,560, renewed Mar. 7, 1953. O. G. Sept. 1. Class 39.

Royal Robes, Inc., New York, N. Y. Women's and misses' robes. 579,326, Sept. 1; Serial No. 626,641, published June 2, 1953. Class 39.

Ruberoid Co., The, Bound Brook, N. J., and New York, N. Y. Asbestos-cement siding. 579,435, Sept. 1; Serial No. 638,374, published May 19, 1953. Class 12.

Ruckelshaus, John G., Labs. Inc., Madison, Wis. Metal film precision resistors. 579,396, Sept. 1; Serial No. 635,384, published June 2, 1953. Class 21.

Rudd-Melikian, Inc., Philadelphia, Pa. Coffee concentrates. 579,249, Sept. 1; Serial No. 577,497, published June 2, 1953. Class 46.

Russell Manufacturing Company, The, Alexander City, Ala. Men's and boys' apparel and sportswear. 579,301, Sept. 1; Serial No. 621,786, published May 26, 1953. Class 39.

Russell Reinforced Plastics Corporation, Lindenhurst, N. Y. Decorative panels. 579,389, Sept. 1; Serial No. 634,550, published June 2, 1953. Class 12.

S & S Industries, Chicago, Ill. Metal trays for attachment to the dashboards of automobiles. 579,334, Sept. 1; Serial No. 627,645, published June 9, 1953. Class 19.

Sabrett Food Products, Corp., Jersey City, N. J. Frankfurters. 579,354, Sept. 1; Serial No. 630,682, published May 26, 1953. Class 46.

Sagner's, A., Son, Baltimore, Md. Men's suits, coats, slacks, etc. 579,514, Sept. 1; Serial No. 634,923. Class 39.

St. Louis Dairy Company, St. Louis, Mo. Dairy products. 306,169, renewed Nov. 21, 1953. O. G. Sept. 1. Class 46.

Sales Affiliates, Inc., New York, N. Y. Neutralizing lotion. 579,305, Sept. 1; Serial No. 623,261, published May 12, 1953. Class 51.

Sasco Sales, Inc., Cleveland, Ohio. Paint. 579,507, Sept. 1; Serial No. 625,438. Class 16.

Sautter, K. H., doing business as Leo Products, Chicago, Ill. Laxative preparation. 579,299, Sept. 1; Serial No. 621,580, published May 26, 1953. Class 18.

Schargel, A. M., Westfield, N. J. Topcoats, overcoats, raincoats, etc. 579,269, Sept. 1; Serial No. 608,327, published May 26, 1953. Class 39.

Schenley Distillers, Inc., New York, N. Y. Crude corn oil. 579,274, Sept. 1; Serial No. 612,510, published Dec. 11, 1951. Class 46.

Schenley Laboratories, Inc., New York, N. Y. Antibiotic feed supplements. 579,417, Sept. 1; Serial No. 637,402, published May 26, 1953. Class 18.

Scholl Mfg. Co., Inc., The, Chicago, Ill. Textile fabrics. 579,347, Sept. 1; Serial No. 629,060, published June 9, 1953. Class 42.

Schuman-Anderholt Co., Holtville, Calif. Fresh vegetables. 579,477, Sept. 1; Serial No. 642,997, published June 9, 1953. Class 46.

Schwarz, F. A. O., New York, N. Y. Games, toys, and sporting goods. 579,358, Sept. 1; Serial No. 631,440, published June 9, 1953. Class 22.

Schwarz Laboratories, Inc., New York, N. Y. Adenosine triphosphoric acid. 579,318, Sept. 1; Serial No. 625,759, published May 26, 1953. Class 18.

Schweppes (Colonial & Foreign) Limited, by Schweppes (Overseas) Limited, London, England. Natural mineral and aerated drinking waters and ginger beer. 304,177, June 27, 1933. Republished Sept. 1. Class 45.

Schweppes (Overseas) Limited: *See*—
Schweppes (Colonial & Foreign) Limited.

Selecto Tie Company: *See*—
Mayers, David.

Semans, Thomas B., Jr., Philadelphia, Pa. Golf balls. 579,283, Sept. 1; Serial No. 616,034, published June 9, 1953. Class 22.

Seventeen: *See*—
Maison Jeunelle, Inc.

Sewer Builders Supplies: *See*—
Skopek, Joseph G.

Shaw, S. A., Co.: *See*—
Shaw, Sam.

Shaw, Sam, doing business as S. A. Shaw Co., New York, N. Y. Electronic flash units for use with cameras, etc. 579,511, Sept. 1; Serial No. 633,172. Class 26.

Shoe Corporation of America, Columbus, Ohio. Men's, women's, and children's skating shoes. 579,475, Sept. 1; Serial No. 642,244, published June 9, 1953. Class 22.

Shurly & Dietrich, to Shurly-Dietrich-Atkins Company Limited, Galt, Ontario, Canada. Saws. 40,078, re-renewed Apr. 7, 1953. O. G. Sept. 1. Class 23.

Shurly-Dietrich-Atkins Company Limited: *See*—
Shurly & Dietrich.

Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, to Siemens-Schuckertwerke Aktiengesellschaft, Erlangen and Berlin-Siemensstadt, Germany. Electrical machines. 301,551, renewed Mar. 7, 1953. O. G. Sept. 1. Class 21.

Silex Company, The, Hartford, Conn. Gas and spirit stoves. 302,212, Apr. 4, 1933. Republished Sept. 1. Class 34.

Silver, Chas. B., & Son, to Chas. B. Silver & Son, Havre de Grace, Md. Canned foods. 410,474, Nov. 28, 1944. New certificate. O. G. Sept. 1. Class 46.

Skopek, Joseph G., doing business as Sewer Builders Supplies, Chicago, Ill. Plastic sealing substance for sewer-pipe joints. 579,418, Sept. 1; Serial No. 637,505, published Apr. 28, 1953. Class 12.

Slimovitz, Morris L., doing business as Morris Manufacturing Company, Newbern, Tenn. Work gloves. 579,380, Sept. 1; Serial No. 633,884, published June 2, 1953. Class 39.

Smith & Wesson, to Smith and Wesson, Inc., Springfield, Mass. Revolvers. 93,786–7, re-renewed Oct. 14, 1953. O. G. Sept. 1. Class 9.

Smith and Wesson, Inc.: *See*—
Smith & Wesson.

Smith, Willard H., doing business as Deep Run Packing Company, Dublin, Pa. Dog and cat food. 579,473, Sept. 1; Serial No. 642,173, published June 2, 1953. Class 46.

Smith's Heating, Inc., Kinston, N. C. Oil-burning heaters. 579,254, Sept. 1; Serial No. 590,525, published May 12, 1953. Class 34.

Snyder Chemical Corporation, Bethel, Conn. Polymerizable casting materials. 579,337, Sept. 1; Serial No. 627,845, published June 9, 1953. Class 6.

Southern Belting Company, Atlanta, Ga. Leather and comparable straps for textile machinery. 579,403, Sept. 1; Serial No. 636,037, published May 12, 1953. Class 23.

Spectrum Fabrics Corporation, New York, N. Y. Piece goods. 579,422, Sept. 1; Serial No. 637,728, published June 2, 1953. Class 42.

Spinnerin Yarn Co., Inc., South Hackensack, N. J. Wool yarns. 579,374, Sept. 1; Serial No. 633,176, published June 2, 1953. Class 43.

Stadler Fertilizer Company, The, Cleveland, Ohio. Fertilizer. 579,458, Sept. 1; Serial No. 639,725, published June 9, 1953. Class 10.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif., to Oronite Chemical Company, San Francisco, Calif. Naphthenic acids and their derivatives. 303,505, renewed May 30, 1953. O. G. Sept. 1. Class 6.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif., to Oronite Chemical Company, San Francisco, Calif. Paint driers. 303,722, renewed June 6, 1953. O. G. Sept. 1. Class 16.

Stanley Home Products, Inc., Westfield, Mass. Automobile polishes, metal polishes, polishing waxes, etc. 579,257, Sept. 1; Serial No. 597,789, published June 9, 1953. Class 4.

Stanley Works, The, assignor: *See*—
Steel City Manufacturing Company, The.

Steel City Manufacturing Company, The, Youngstown, Ohio, assignor to The Stanley Works, New Britain, Conn. Electric automatic door controlling apparatus. 579,253, Sept. 1; Serial No. 588,816, published Nov. 7, 1950. Class 21.

Sterling Drug Inc.: *See*—
Watkins, R. L., Company, The.

Stern Brothers, New York, N. Y. Babies' crib blankets. 579,464, Sept. 1; Serial No. 640,311, published June 9, 1953. Class 42.

Steven, Glenn A., doing business under the firm name Steven Motor Chair Co., Kansas City, Kans. Electric motor-propelled chair vehicles. 579,370, Sept. 1; Serial No. 632,758, published June 9, 1953. Class 19.

Steven Motor Chair Co.: *See*—
Steven, Glenn A.

Stevens, J. P., & Co., Inc., New York, N. Y. Sheets and pillow cases. 579,356, Sept. 1; Serial No. 631,322, published Jan. 13, 1953. Class 42.

Stout, Pola, Inc., New York, N. Y. Woolen and worsted fabrics. 579,392, Sept. 1; Serial No. 634,952, published June 9, 1953. Class 42.

Strouse, Adler Company, The, New Haven, Conn. Women's girdles, panty girdles, and combinations or one piece foundation garments. 579,410, Sept. 1; Serial No. 636,750, published June 9, 1953. Class 39.

Swedish Boy Bakery: *See*—
Aexlson, J. Henry.

Sweet, Dale F., Chandler, Ariz. Toy. 579,336, Sept. 1; Serial No. 627,781, published June 9, 1953. Class 22.

Tanbro Fabrics Corp., New York, N. Y. Textile fabrics. 579,455, Sept. 1; Serial No. 639,346, published June 9, 1953. Class 42.

Tappan Stove Company, The, Mansfield, Ohio. Gas ranges and stoves. 579,353, Sept. 1; Serial No. 631,224, published May 12, 1953. Class 34.

Tested Papers of America, Inc., Chicago, Ill. Drinking straws. 579,285, Sept. 1; Serial No. 616,525, published May 12, 1953. Class 50.

Tetlow, Joseph, Philadelphia, to G. T. Buchanan, Blue Bell, Pa. Perfume. 87,823, re-renewed Aug. 6, 1952. O. G. Sept. 1. Class 51.

Times-Picayune Publishing Company, The, New Orleans, La. Newspaper. 307,978, renewed Nov. 14, 1953. O. G. Sept. 1. Class 38.

Toidey Company, Gertrude A. Muller, Inc., The, Fort Wayne, Ind. Toilet seat for infants attached to an adult toilet seat, and anti-splash deflector, etc. 579,384, Sept. 1; Serial No. 634,224, published June 9, 1953. Class 13.

Top mode Manufacturing Co., Dauphin, Pa. Misses' and women's dresses. 579,423, Sept. 1; Serial No. 637,733, published June 2, 1953. Class 39.

Topton Rug Manufacturing Co., Mertztown, Pa., and New York, N. Y. Cotton braided rugs. 579,461, Sept. 1; Serial No. 639,858, published June 2, 1953. Class 42.

Ulmann, Bernhard, Co. Inc., Long Island City, N. Y. Art needlework yarns. 579,466, Sept. 1; Serial No. 640,591, published June 9, 1953. Class 43.

Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company.

Union Liniere d'Exportation, S. A. R. L., Paris, Seine, France. Linen fabrics. 579,351, Sept. 1; Serial No. 630,043, published June 9, 1953. Class 42.

Union Starch & Refining Company, Columbus, Ind. Marshmallow and marshmallow creams, corn syrup, and table syrup. 579,324, Sept. 1; Serial No. 626,484, published June 2, 1953. Class 46.

United Brush Manufactories, New York, N. Y. Artists' paint brushes. 579,478, Sept. 1; Serial No. 643,007, published June 2, 1953. Class 29.

United Merchants and Manufacturers, Inc., New York, N. Y. Piece goods. 579,419, Sept. 1; Serial No. 637,507, published June 2, 1953. Class 42.

United States Gypsum Company, Chicago, Ill. Hydrated lime and quicklime. 579,316, Sept. 1; Serial No. 625,553, published Apr. 28, 1953. Class 12.

United States Paste Company, Philadelphia, Pa. Sizing for wall paper paste. 579,497, Sept. 1; Serial No. 604,672. Class 5.

United States Plywood Corporation, New York, N. Y. Laminated construction material. 579,282, Sept. 1; Serial No. 615,033, published May 19, 1953. Class 12.

United States Rubber Company: *See*—
Naugatuck Chemical Company, The.
New York Belting & Packing Co. Ltd.

Uni-Therm Company: *See*—
Adelt, Carl W.

Universal Camera Corporation, to Universal Camera Corporation, New York, N. Y. Photographic film. 308,158, renewed Nov. 21, 1953. O. G. Sept. 1. Class 26.

Universal Camera Corporation, to Universal Camera Corporation, New York, N. Y. Photographic camera and films. 308,159, renewed Nov. 21, 1953. O. G. Sept. 1. Class 26.

Universal Products Company, Inc., Dearborn, Mich. Motor vehicle propeller shafts and universal joints and parts thereof. 579,340, Sept. 1; Serial No. 628,132, published Feb. 24, 1953. Class 23.

Van Waters & Rogers, Inc., Seattle, Wash. Anti-freeze solutions. 579,413, Sept. 1; Serial No. 637,159, published June 9, 1953. Class 6.

Waggener Paint Company, North Kansas City, Mo. Varnishes, paint enamels, lacquers, etc. 292,069, Mar. 1, 1932. Republished Sept. 1. Classes 4, 12, 16, and 52.

Ward Brothers Manufacturing Company, Monticello, Ark. Row boats, outboard power boats, and outboard cruisers. 579,472, Sept. 1; Serial No. 642,104, published June 9, 1953. Class 19.

Wardley Products Co., New York, N. Y. Food. 579,502, Sept. 1; Serial No. 621,292. Class 46.

Warren Packing Company, Portland, Oreg., by New England Fish Company, Seattle, Wash. Canned salmon. 91,144, Apr. 15, 1913. Republished Sept. 1. Class 46.

Warren Woolen Co., The, Stafford Springs, Conn. Woolen piece goods. 579,520, Sept. 1; Serial No. 644,582. Class 42.

Watkins, R. L., Company, The, to Sterling Drug Inc., New York, N. Y. Dentifrices, tooth powder, astringents, and mouth washes. 305,383, renewed Aug. 15, 1953. O. G. Sept. 1. Class 51.

Webster Company, Inc., Scranton, Pa. Men's and boys' trousers and slacks. 579,296, Sept. 1; Serial No. 621,093, published June 24, 1952. Class 39.

Webster, William A., Company, The, Memphis, Tenn. Cold germicidal concentrate. 579,426, Sept. 1; Serial No. 637,897, published June 9, 1953. Class 6.

Weinig, J., & Son, New York, N. Y. Stoles, scarves, jackets, capes, etc. 579,491, Sept. 1; Serial No. 581,225. Class 39.

Weir, William J., Devon, Conn. Table game. 579,357, Sept. 1; Serial No. 631,333, published June 9, 1953. Class 22.

West Bend Aluminum Co., West Bend, Wis. Electric immersion heaters. 305,055, July 25, 1933. Republished Sept. 1. Class 21.

Wevenberg Shoe Manufacturing Company, Milwaukee, Wis. Leather shoes. 305,641, renewed Aug. 22, 1953. O. G. Sept. 1. Class 39.

Wild-Q Company, The, Kansas City, Mo. Playing cards. 579,467, Sept. 1; Serial No. 641,651, published June 2, 1953. Class 22.

Wix Manufacturing Co.: *See*—
Wixson, Gertrude E.

Wixson, Gertrude E., doing business as Wix Manufacturing Co., Kansas City, Mo. Combined shower and shampoo caps. 579,428, Sept. 1; Serial No. 637,970, published June 2, 1953. Class 39.

Woburn Chemical Corp. (N. J.), Harrison, N. J. Styrenated dehydrated castor oil. 579,262, Sept. 1; Serial No. 606,353, published June 9, 1953. Class 6.

Wood Conversion Company, St. Paul, Minn. Light-colored coated rigid fiber insulation board. 579,252, Sept. 1; Serial No. 588,347, published May 12, 1953. Class 12.

York Cone Company, York, Pa. Ice cream cones. 579,352, Sept. 1; Serial No. 630,177, published June 2, 1953. Class 46.

Zion Industries, Inc., Zion, Ill. Candy. 579,471, Sept. 1; Serial No. 642,005, published June 2, 1953. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Latex composition. The Naugatuck Chemical Company. 304,318, June 27, 1933. Republished Sept. 1.

Seeds, Flower, vegetable, and cereal. Dakota Improved Seed Company. 92,323, re-renewed July 1, 1953. O. G. Sept. 1.

Seeds, Fodder-corn. Northrup, King & Co. 90,234, re-renewed Feb. 11, 1953. O. G. Sept. 1.

CLASS 3

Overnight cases, week-end cases, wardrobe trunks, etc. The Everite Manufacturing Company. 579,489, Sept. 1; Serial No. 568,999.

Wallets and billfolds. Aristocrat Leather Products, Inc. 579,510, Sept. 1; Serial No. 632,010.

CLASS 4

Polishes, Automobile, metal polishes, polishing waxes, etc. Stanley Home Products, Inc. 579,257, Sept. 1; Serial No. 597,789, published June 9, 1953.

Varnishes, paint enamels, lacquers, etc. Waggener Paint Company. 292,069, Mar 1, 1932. Republished Sept. 1.

CLASS 5

Sizing for wall paper paste. United States Paste Company. 579,497, Sept. 1; Serial No. 604,672.

CLASS 6

Anti-freeze solutions. Van Waters & Rogers, Inc. 579,413, Sept. 1; Serial No. 637,159, published June 9, 1953.

Bleaching agent, Dry, completely soluble household. Foote Mineral Company. 579,350, Sept. 1; Serial No. 629,939, published June 9, 1953.

Chemical liquid. Charles F. Dulken. 579,317, Sept. 1; Serial No. 625,587, published June 9, 1953.

Chemicals. Monsanto Chemical Company. 579,402, Sept. 1; Serial No. 636,025, published June 9, 1953.

Chemicals, Fine, and oil-chemical mixtures. E. E. Litkenhous. 579,353, Sept. 1; Serial No. 630,274, published June 9, 1953.

Cold germicidal concentrate. The William A. Webster Company. 579,426, Sept. 1; Serial No. 637,897, June 9, 1953.

Disinfectant, deodorant, and germicide. Hal-Pro Processing Company. 579,412, Sept. 1; Serial No. 637,049, published June 9, 1953.

Dyestuffs. General Dyestuff Corporation. 306,207, Sept. 12, 1933. Republished Sept. 1.

Fine chemicals. The Chemical Rubber Co. 579,259, Sept. 1; Serial No. 603,047, published June 9, 1953.

Material for use in removing or replacing ions or acid-forming constituents from fluids. Rohm & Haas Company. 579,397, Sept. 1; Serial No. 635,063, published June 9, 1953.

Moth proofing preparation. Claire Manufacturing Company. 579,401, Sept. 1; Serial No. 635,998, published June 9, 1953.

Naphthenic acids and their derivatives. Standard Oil Company of California. 303,505, renewed May 30, 1953. O. G. Sept. 1.

Oxygen absorbers. The Hays Corporation. 305,494, renewed Aug. 15, 1953. O. G. Sept. 1.

Polymerizable casting materials. Snyder Chemical Corporation. 579,337, Sept. 1; Serial No. 627,845, published June 9, 1953.

Styrenated dehydrated castor oil. Woburn Chemical Corp. 579,262, Sept. 1; Serial No. 606,353, published June 9, 1953

Sulfonated alcohols. E. I. du Pont de Nemours and Company. 304,032, June 20, 1933. Republished Sept. 1.

Water disinfectant. Ralston Purina Company. 579,275, Sept. 1; Serial No. 612,825, published June 9, 1953.

CLASS 7

Rope, Hard fibre. Plymouth Cordage Company. 308,264, renewed Nov. 28, 1953. O. G. Sept. 1.

Rope, Hard fibre. Plymouth Cordage Company. 308,267, renewed Nov. 28, 1953. O. G. Sept. 1.

CLASS 9

Air rifle shot. Federal Cartridge Corporation. 579,446, Sept. 1; Serial No. 638,954, published June 9, 1953.

Detonators. Atlas Powder Company. 579,430, Sept. 1; Serial No. 638,054, published June 9, 1953.

Revolvers. Smith & Wesson. 93,766–7, re-renewed Oct. 14, 1953. O. G. Sept. 1.

Smokeless powder. Hercules Powder Company. 93,598, Sept. 30, 1913. Republished Sept. 1.

CLASS 10

Fertilizer. The Stadler Fertilizer Company. 579,458, Sept. 1; Serial No. 639,725, published June 9, 1953.

Plant food, Enriched organic. Davies Nitrate Co, Inc. 579,278, Sept. 1; Serial No. 614,291, published June 9, 1953.

CLASS 12

Asbestos-cement siding. The Ruberoid Co. 579,435, Sept. 1; Serial No. 638,374, published May 19, 1953.

Asphalt tile. Gertz and Cook, Inc. 579,261, Sept. 1; Serial No. 606,790, published Apr. 28, 1953

Bituminous emulsions. Pioneer Paper Company. 302,734, Apr. 25, 1933. Republished Sept. 1.

Building and construction materials, Corrosion-resistance coated metal. Copco Steel & Engineering Company. 579,292, Sept. 1; Serial No. 620,195, published May 19, 1953.

Building materials, Glass. Marbelex Products, Inc. 579,311, Sept. 1; Serial No. 624,840, published May 19, 1953.

Caulking compound, Pipe. Lake Chemical Co. 579,246, Sept. 1; Serial No. 560,276, published May 19, 1953.

Cement, Refractory. The Inland Fire Brick Company. 579,289, Sept. 1; Serial No. 618,262, published May 19, 1953.

Construction material, Laminated. United States Plywood Corporation. 579,282, Sept. 1; Serial No. 615,033, published May 19, 1953.

Decorative panels. Russell Reinforced Plastics Corporation. 579,389, Sept. 1; Serial No. 634,550, published June 2, 1953.

Light-colored coated rigid fiber insulation board. Wood Conversion Company. 579,252, Sept. 1; Serial No. 588,347, published May 12, 1953.

Lime, Hydrated, and quicklime. United States Gypsum Company. 579,316, Sept. 1; Serial No. 625,553, published Apr. 28, 1953.

Material consisting of natural wood veneer. Parkwood Laminates, Inc. 579,270, Sept. 1; Serial No. 609,310, published May 19, 1953.

Movable partitions of metal, wood, or composite material and parts of such partitions. The E. F. Hauserman Company. 579,277, Sept. 1; Serial No. 613,371, published Apr. 28, 1953.

Packaged installation system. R. Riethmiller. 579,297, Sept. 1; Serial No. 621,227, published May 19, 1953.

Plastic sealing substance for sewer-pipe joints. J. G. Skopek. 579,418, Sept. 1; Serial No. 637,505, published Apr. 28, 1953.

Storm windows and storm window frames. Arlite Industries, Inc. 579,300, Sept. 1; Serial No. 621,651, published May 19, 1953.

Varnishes, paint enamels, lacquers, etc. Waggener Paint Company. 292,069, Mar. 1, 1932. Republished Sept. 1.

CLASS 13

Metal pipe. Chase Brass & Copper Co. Incorporated. 303,992, renewed June 13, 1953. O. G. Sept. 1.

Metal pipe. Chase Brass & Copper Co. Incorporated. 303,994, renewed June 13, 1953. O. G. Sept. 1.

Pipe joints and connections and flexible pipe-joints and cut-out valves. Barco Brass & Joint Co. 91,309, renewed Apr. 29, 1953. O. G. Sept. 1.

Pressure clamps and parts thereof, Industrial. Band-It Company. 579,243, Sept. 1; Serial No. 552,409, published June 9, 1953.

Screws, Socket head, drive screws, cap screws, etc. Rockford Screw Products Co. 579,449, Sept. 1; Serial No. 638,977, published June 2, 1953.

Spring pin fasteners. Elastic Stop Nut Corporation of America. 579,237, Sept. 1; Serial No. 531,615, published June 9, 1953.

Toilet seat for infants attached to an adult toilet seat, and anti-splash deflector, etc. The Toidey Company, Gertrude A. Muller, Inc. 579,384, Sept. 1; Serial No. 634,224, published June 9, 1953.

Valves and cocks, Metal. Robertshaw-Fulton Controls Company. 579,322, Sept. 1; Serial No. 626,418, published June 9, 1953.

CLASS 14

Angles, wire, and sheet-metal. Chase Brass & Copper Co. Incorporated. 303,995, renewed June 13, 1953. O. G. Sept. 1.

Sheet-metal and wire. Chase Brass & Copper Co. Incorporated. 304,538, renewed July 11, 1953. O. G. Sept. 1.

Tin mill black plate and coke tin plate. Republic Steel Corporation. 307,977, renewed Nov. 14, 1953. O. G. Sept. 1.

CLASS 16

Bituminous emulsions and emulsion compounds for use as protective coatings. The Flintkote Corporation. 305,188, Aug. 8, 1933. Republished Sept. 1.

Paint. Sasco Sales, Inc. 579,507, Sept. 1; Serial No. 625,438.

Paint driers. Standard Oil Company of California. 303,722, renewed June 6, 1953. O. G. Sept. 1.

Paint, Water. M. Ewing Fox Co., Inc. 303,810, renewed June 6, 1953. O. G. Sept. 1.

Paints, etc., Dry and mixed. Davies & Meacham. 91,464, May 6, 1913. Amended. O. G. Sept. 1.

Varnishes. Berry Brothers. 92,782, July 29, 1913. Republished Sept. 1.

Varnishes, paint enamels, lacquers, etc. Waggener Paint Company. 292,069, Mar. 1, 1932. Republished Sept. 1.

CLASS 18

Adenosine triphosphoric acid. Schwarz Laboratories, Inc. 579,318, Sept. 1; Serial No. 625,759, published May 26, 1953.

Antibiotic and vitamin supplements. Merck & Co., Inc. 579,406, Sept. 1; Serial No. 636,724, published June 2, 1953.

Antibiotic feed supplements. Schenley Laboratories, Inc. 579,417, Sept. 1; Serial No. 637,402, published May 26, 1953.

Laxative preparation. K. H. Sautter. 579,290, Sept. 1; Serial No. 621,580, published May 26, 1953.

Medical preparation. Physicians and Hospitals Supply Company, Inc. 579,312, Sept. 1; Serial No. 625,054, published June 2, 1953.

Medicinal laxative preparation. Allen & Hanburys, Limited. 304,065, June 20, 1933. Republished Sept. 1.

Medicinal preparation. The Harrower Laboratory, Inc. 579,450, Sept. 1; Serial No. 639,042, published May 26, 1953.

Mineral tablets. McCoy's Products, Inc. 579,260, Sept. 1; Serial No. 605,220, published June 2, 1953.

Ointment. C. J. Beaudreaux. 579,288, Sept. 1; Serial No. 617,384, published June 2, 1953.

Powders for making effervescent water used as an alkalising agent. A. Gamsoni & Co. 579,308, Sept. 1; Serial No. 622,758, published June 2, 1953.

Preparation for sex hormone therapy. Ciba Pharmaceutical Products, Inc. 579,339, Sept. 1; Serial No. 628,091, published June 2, 1953.

Preparation for use as an antiseptic, germicide, and deodorant. Lucas Products Corporation. 579,379, Sept. 1; Serial No. 633,776, published May 26, 1953.

Vitamin and amino acid supplement, Balanced. Bicd Laboratories, Inc. 579,309, Sept. 1; Serial No. 624,206, published May 26, 1953.

Vitamin preparation. American Cyanamid Company. 579,303, Sept. 1; Serial No. 622,706, published May 26, 1953.

Vitamin preparation. J. H. Austin. 579,386, Sept. 1; Serial No. 634,361, published June 9, 1953.

Vitamin tonic, cough syrup, medicinal mineral oil, and rubbing alcohol. Marcantel Medicine Co., Inc. 579,245, Sept. 1; Serial No. 628,501, published May 26, 1953.

CLASS 19

Automobile anti-skid stabiliser. Dieterich Products Corporation. 579,476, Sept. 1; Serial No. 642,625, published June 9, 1953.

Automobile seat covers. Goldblatt Bros. Inc. 579,474, Sept. 1; Serial No. 642,219, published June 9, 1953.

Automobiles. General Motors Corporation. 579,485, Sept. 1; Serial No. 644,297, published June 9, 1953.

Automobiles and automobile bodies. Hudson Motor Car Company. 579,460, Sept. 1; Serial No. 639,823, published June 9, 1953.

Automobiles and structural parts thereof. The M. G. Car Company Limited. 305,648, renewed Aug. 22, 1953. O. G. Sept. 1.

Boats, Row, outboard power boats, and outboard cruisers. Ward Brothers Manufacturing Company. 579,472, Sept. 1; Serial No. 642,104, published June 9, 1953.

Boats, Speed, motor cruisers, yachts, and motor-propelled racing craft. Borum Boat Company, Inc. 579,519, Sept. 1; Serial No. 644,097.

Cars, Motor. Ford Motor Company. 579,484, Sept. 1; Serial No. 643,873, published June 2, 1953.

Metal trays for attachment to the dashboards of automobiles. S & S Industries. 579,334, Sept. 1; Serial No. 627,645, published June 9, 1953.

Vehicles, Electric motor-propelled chair. G. A. Steven. 579,370, Sept. 1; Serial No. 632,758, published June 9, 1953.

CLASS 21

Containers for electric storage batteries. The Richardson Company. 579,444, Sept. 1; Serial No. 638,672, published June 2, 1953.

Electric automatic door controlling apparatus. The Steel City Manufacturing Company. 579,253, Sept. 1; Serial No. 588,816, published Nov. 7, 1950.

Electric vacuum cleaners, radio receiving sets, battery chargers, etc. Kingston Products Corporation. 579,296, Sept. 1; Serial No. 620,509, published June 2, 1953.

Electrical machines. Siemens-Schuckertwerke Aktiengesellschaft. 301,561, renewed Mar. 7, 1953. O. G. Sept. 1.

Electrically operated apparatus and tools. Portable Electric Tools, Inc. 579,400, Sept. 1; Serial No. 636,862, published June 2, 1953.

Electronic tubes. Columbia Broadcasting System, Inc. 579,421, Sept. 1; Serial No. 637,645, published May 12, 1953.

Heaters, Electric immersion. West Bend Aluminum Co. 305,055, July 25, 1933. Republished Sept. 1.

Heaters, Electric water. W. B. Ford. 579,441, Sept. 1; Serial No. 638,709, published June 2, 1953.

Lighting fixtures and parts thereof, Electric. Moe Light, Inc. 579,407, Sept. 1; Serial No. 636,648, published June 2, 1953.

Metal film precision resistors. John G. Ruckelshaus Labs, Inc. 579,294, Sept. 1; Serial No. 635,384, published June 2, 1953.

Non-magnetic tape. Minnesota Mining and Manufacturing Company. 579,448, Sept. 1; Serial No. 638,968, published June 2, 1953.
Recording and playback apparatus, Magnetically operated. Amplifier Corporation of America. 579,298, Sept. 1; Serial No. 621,496, published June 2, 1953.
Reels for magnetic sound-recording tape. Minnesota Mining and Manufacturing Company. 579,447, Sept. 1; Serial No. 638,967, published June 2, 1953.
Television antennae. Continental Copper & Steel Industries, Inc. 579,490, Sept. 1; Serial No. 581,179.
Valves operated by an electromagnet. Robertshaw-Fulton Controls Company. 579,321, Sept. 1; Serial No. 626,417, published June 9, 1953.
Valves operated by an electromagnet. Robertshaw-Fulton Controls Company. 579,323, Sept. 1; Serial No. 626,419, published June 9, 1953.

CLASS 22

Athletic knee brace. Athletic Products Company, Inc. 579,508, Sept. 1; Serial No. 625,709.
Balls, Golf. Davega-City Radio Stores, Inc. 304,294, June 27, 1933. Corrected. O. G. Sept. 1.
Baseball gloves and mitts, foot balls, basket balls and volley balls. M. Denkert & Company. 579,445, Sept. 1; Serial No. 638,902, published June 2, 1953.
Dolls, Ceramic. L. C. Goodwin. 579,439, Sept. 1; Serial No. 638,532, published June 9, 1953.
Fish bait. Bee'-Jay Bait Co. 579,470, Sept. 1; Serial No. 641,901, published June 2, 1953.
Fish lures, Artificial. The Creek Chub Bait Company. 579,343, Sept. 1; Serial No. 628,347, published June 9, 1953.
Fishing rods. Norm Begg Co. 579,338, Sept. 1; Serial No. 627,863, published June 9, 1953.
Game, Table. W. J. Weir. 579,357, Sept. 1; Serial No. 631,333, published June 9, 1953.
Games, toys, and sporting goods. F. A. O. Schwarz. 579,358, Sept. 1; Serial No. 631,440, published June 9, 1953.
Golf balls. T. B. Semans, Jr. 579,283, Sept. 1; Serial No. 616,054, published June 9, 1953.
Golf putters. Putt-Master. 579,480, Sept. 1; Serial No. 643,371, published June 9, 1953.
Horseshoes, Rubber. Healthways. 579,371, Sept. 1; Serial No. 632,840, published June 9, 1953.
Playing card holder. G. M. Johnson. 579,375, Sept. 1; Serial No. 633,203, published June 9, 1953.
Playing cards. The Wild-Q Company. 579,467, Sept. 1; Serial No. 641,651, published June 2, 1953.
Skates and parts thereof, Roller. The Cleveland Skate Co., Inc. 579,459, Sept. 1; Serial No. 639,741, published June 2, 1953.
Skates, Roller, and handball gloves. Davega-City Radio Stores, Inc. 304,648, July 11, 1933. Corrected. O. G. Sept. 1.
Skating shoes, Men's, women's, and children's. Shoe Corporation of America. 579,475, Sept. 1; Serial No. 642,244, published June 9, 1953.
Toy. D. F. Sweet. 579,336, Sept. 1; Serial No. 627,781, published June 9, 1953.
Toy kits. The Quell Products Company. 579,244, Sept. 1; Serial No. 558,066, published June 9, 1953.
Toy pistols, toy tents, toy lassos, etc. Delira Corporation. 579,438, Sept. 1; Serial No. 638,525, published June 2, 1953.

CLASS 23

Abrasive wheel dressers and parts thereof. Precision Diamond Products, Ltd. 579,276, Sept. 1; Serial No. 613,084, published May 12, 1953.
Bits for hand and machine screwdrivers. Hy-Pro Tool Company. 579,496, Sept. 1; Serial No. 604,478.
Cultivators, Garden. S. L. Allen & Co., Inc. 306,116, Sept. 5, 1933. Republished Sept. 1.
Dry shavers, safety razors, straight razors, and hair clippers. Arvin Electric Limited. 579,294, Sept. 1; Serial No. 620,333, published May 12, 1953.
Internal combustion engines and parts thereof. Cummins Engine Company, Inc. 579,346, Sept. 1; Serial No. 628,850, published Feb. 24, 1953.
Leather and comparable straps for textile machinery. Southern Belting Company. 579,403, Sept. 1; Serial No. 636,037, published May 12, 1953.
Machine for cleaning, rust-proofing, priming, and painting sheet metal articles. Carrier Engineering Company Limited. 579,248, Sept. 1; Serial No. 567,499, published May 12, 1953.
Machine tools. The Lodge and Shipley Company. 579,302, Sept. 1; Serial No. 622,242, published May 12, 1953.
Machines for capping or vacuum capping jars and other containers. Crown Cork & Seal Company, Inc. 579,307, Sept. 1; Serial No. 623,752, published Feb. 10, 1953.
Motor vehicle propeller shafts and universal joints and parts thereof. Universal Products Company, Inc. 579,340, Sept. 1; Serial No. 628,132, published Feb. 24, 1953.
Pumps, Rotary liquid. Kinney Manufacturing Company. 579,330, Sept. 1; Serial No. 627,069, published May 12, 1953.
Saws. Shurly & Dietrich. 40,078, re-renewed Apr. 7, 1953. O. G. Sept. 1.
Saws, planer knives, and circular knives. Henry Disston & Sons, Inc. 306,052, Sept. 5, 1933. Republished Sept. 1.
Sewing machines, Electrical. N. V. Fridor Fabrieken. 579,349, Sept. 1; Serial No. 629,686, published Apr. 14, 1953.
Shovels, Power drawn cultivator. Cultiguard Shovel Company. 579,284, Sept. 1; Serial No. 616,225, published Feb. 10, 1953.
Sifter brushes. Victor Balata & Textile Belting Co. 579,293, Sept. 1; Serial No. 620,241, published May 12, 1953.
Typewriters and parts thereof. Olympia Buromaschinenwerke A. G. 579,310, Sept. 1; Serial No. 624,520, published Feb. 24, 1953.

CLASS 26

Carrying cases or bags for cameras, films and photographic supplies. Leeds Travelwear Corporation. 579,494, Sept. 1; Serial No. 602,460.
Electronic flash units for use with cameras, etc. S. Shaw. 579,511, Sept. 1; Serial No. 633,172.
Instruments for measuring the radii of curvature, dimensions, etc. Overseas Finance & Trading Company Inc. 579,501, Sept. 1; Serial No. 619,407.
Machines for applying and binding tape to the edges of photographic transparency slides. Mack's Industries, Incorporated. 579,493, Sept. 1; Serial No. 600,386.
Photographic camera and films. Universal Camera Corporation. 308,159, renewed Nov. 21, 1953. O. G. Sept. 1.
Photographic film. Universal Camera Corporation. 308,158, renewed Nov. 21, 1953. O. G. Sept. 1.
Rules, Slide. Keuffel & Esser Company. 308,069, renewed Nov. 21, 1953. O. G. Sept. 1.
Slide-rules. Keuffel & Esser Company. 93,448, renewed Sept. 16, 1953. O. G. Sept. 1.

CLASS 29

Brushes, Artists' paint. United Brush Manufactories. 579,478, Sept. 1; Serial No. 643,007, published June 2, 1953.
Brushes, Paint and varnish. Baltimore Brushes, Inc. 579,457, Sept. 1; Serial No. 639,687, published June 9, 1953.
Mops, Floor. S. H. Kress and Company. 579,442, Sept. 1; Serial No. 638,720, published June 2, 1953.
Wiping cloths. General Jobbing Co. Inc. 579,468, Sept. 1; Serial No. 641,775, published June 9, 1953.

CLASS 32

Mattresses. Fort Pitt Bedding Company. 307,708, renewed Oct. 31, 1953. O. G. Sept. 1.

CLASS 34

Barbecue units. A. J. Hood. 579,387, Sept. 1; Serial No. 634,412, published May 26, 1953.
Chimney caps. C. W. Adelt. 579,348, Sept. 1; Serial No. 629,409, published May 26, 1953.
Combined system of machines for pasteurizing and cooling milk, fruit juices, and wines. A. P. V. Co., Ltd. 579,281, Sept. 1; Serial No. 614,915, published May 5, 1953.
Finned tub convectors. C. A. Dunham Company. 579,251, Sept. 1; Serial No. 586,688, published May 5, 1953.
Fireplace equipment. Miller and Rhoads, Incorporated. 579,304, Sept. 1; Serial No. 623,114, published May 26, 1953.
Gas cutting and welding apparatus. Alexander Milburn, Inc. 579,280, Sept. 1; Serial No. 614,888, published May 12, 1953.
Hand warmers, Liquid fuel catalytic type. Aladdin Laboratories, Inc. 579,393, Sept. 1; Serial No. 635,113, published May 12, 1953.
Heaters, Automatic gas water. W. E. McCorquodale. 579,238, Sept. 1; Serial No. 537,805, published June 8, 1948.
Heaters, Oil-burning. Smith's Heating, Inc. 579,254, Sept. 1; Serial No. 590,525, published May 12, 1953.
Ranges and stoves, Gas. The Tappan Stove Company. 579,355, Sept. 1; Serial No. 631,224, published May 12, 1953.
Ranges, Cooking. Henry N. Clark Co. 579,385, Sept. 1; Serial No. 634,238, published May 26, 1953.
Ranges, Cooking. J. Rose & Co., Inc. 579,404, Sept. 1; Serial No. 636,254, published May 5, 1953.
Reflectors. General Motors Corporation. 579,390, Sept. 1; Serial No. 634,585, published May 5, 1953.
Stoves, Gas and spirit. The Silex Company. 302,212, Apr. 4, 1933. Republished Sept. 1.
Ventilators, Powered roof. Penn Ventilator Company. 579,363, Sept. 1; Serial No. 632,323, published May 5, 1953.

CLASS 35

Belting, hose and packing. New York Belting & Packing Co. Ltd. 91,013, Apr. 8, 1913. Republished Sept. 1.
Cup leathers, valve and plunger leathers, flange leathers, etc. Excelsior Leather Washer Manufacturing Co. 303,322, renewed May 23, 1953. O. G. Sept. 1.

CLASS 37

Book-paper. American Writing Paper Co. 92,388, July 8, 1913. Republished Sept. 1.
Crayons. Markwell Manufacturing Co., Inc. 579,505, Sept. 1; Serial No. 624,345.
Drawing-paper. Keuffel & Esser Company. 40,516–19, re-renewed June 9, 1953. O. G. Sept. 1.
Envelopes. Old Colony Envelope Company. 270,923, May 30, 1930. Republished Sept. 1.
Paper, Blue-print. Keuffel & Esser Company. 40,523, re-renewed June 9, 1953. O. G. Sept. 1.
Paper, Writing and printing, and mailing envelopes. Old Colony Envelope Company. 254,986, Apr. 2, 1929. Republished Sept. 1.
Paper, Writing and printing, and mailing envelopes. Old Colony Envelope Company. 256,602, May 21, 1929. Republished Sept. 1.
Papers, All kinds of. Keuffel & Esser Company. 40,667, re-renewed June 30, 1953. O. G. Sept. 1.
Tracing-paper. Keuffel & Esser Company. 40,522, re-renewed June 9, 1953. O. G. Sept. 1.

CLASS 38

Magazine, Periodical. Chicagoland Golf, Inc. 579,515, Sept. 1; Serial No. 636,770.
Newspaper. The Times-Picayune Publishing Company. 307,978, renewed Nov. 14, 1953. O. G. Sept. 1.
Publication. The Instruments Publishing Company, Inc. 579,512, Sept. 1; Serial No. 633,615.
Unfinished, printed, engraved, and lithographed greeting cards; etc. Inter-Collegiate Press. 305,736, Aug. 22, 1933. Republished Sept. 1.

CLASS 39

Apparel and sportswear, Men's and boys'. The Russell Manufacturing Company. 579,301, Sept. 1; Serial No. 621,786, published May 26, 1953.
Apparel, Men's; outer shirts, sport shirts, sport coats, etc. C. Mosel. 579,369, Sept. 1; Serial No. 632,628, published May 19, 1953.
Brassières, foundation garments, girdles, etc. Beautee-Fit Company. 579,388, Sept. 1; Serial No. 634,444, published June 9, 1953.
Caps. K. Hasseler. 579,332, Sept. 1; Serial No. 627,308, published May 19, 1953.
Caps, Combined shower and shampoo. G. E. Wixson. 579,428, Sept. 1; Serial No. 637,970, published June 2, 1953.
Collars, cuffs, and dress, negligee and work shirts. Hall, Hartwell & Co. 91,087, re-renewed Apr. 15, 1953. O. G. Sept. 1.
Dresses, Misses' and women's. Top Mode Manufacturing Co. 579,423, Sept. 1; Serial No. 637,733, published June 2, 1953.
Dresses, Women's, misses', and juniors'. Allied Stores Corporation. 579,424, Sept. 1; Serial No. 637,855, published June 2, 1953.
Ear muffs. A. A. Rosenberg. 579,433, Sept. 1; Serial No. 638,315, published June 2, 1953.
Garments for children, Certain. Periwinkle, Inc. 579,373, Sept. 1; Serial No. 632,954, published May 26, 1953.
Garments, Maternity. Expectation Shops. 579,420, Sept. 1; Serial No. 637,514, published June 9, 1953.
Girdles, Women's, panty girdles, and combinations or one piece foundation garments. The Strouse, Adler Company. 579,410, Sept. 1; Serial No. 636,750, published June 9, 1953.
Gloves. Julius Kayser & Co. 579,429, Sept. 1; Serial No. 637,997, published June 2, 1953.
Gloves, Work. M. L. Slimovitz. 579,380, Sept. 1; Serial No. 633,884, published June 2, 1953.
Gloves, Woven fabric. Advance Glove Manufacturing Company. 574,986, May 26, 1953. Corrected. O. G. Sept. 1.
Handkerchiefs. Carolina Handkerchief Company, Inc. 579,498, Sept. 1; Serial No. 605,943.
Hats. Hat Corporation of America. 579,411, Sept. 1; Serial No. 636,981, published June 2, 1953.
Hats and hat bodies. Betmar Hats, Inc. 579,509, Sept. 1; Serial No. 629,833.
Hats, caps, etc., Uniform. George Brunssen Co. 90,963, Apr. 8, 1913. New certificate. O. G. Sept. 1.
Hats, Men's. Portis Style Industries, Inc. 579,364, Sept. 1; Serial No. 632,326, published June 2, 1953.
Hats, Women's and girls'. Impulse Items. 579,287, Sept. 1; Serial No. 616,855, published May 26, 1953.
Hosiery. Bryan Full Fashioned Mills. 579,506, Sept. 1; Serial No. 624,445.
Hosiery. Great American Knitting Mills, Inc. 308,608, renewed Dec. 12, 1953. O. G. Sept. 1.
Hosiery. Frederick Loeser & Co., Inc. 307,671, renewed Oct. 31, 1953. O. G. Sept. 1.
Hosiery. Chester H. Roth Co., Inc. 301,569, renewed Mar. 7, 1953. O. G. Sept. 1.
Hosiery and underwear, Women's. Walter W. Moyer Company. 579,272, Sept. 1; Serial No. 610,576, published May 26, 1953.
Hosiery, Ladies'. Acclaim Hosiery Mills, Inc. 579,490, Sept. 1; Serial No. 611,253.
Hosiery, Ladies', misses', and children's. J. Heim. 579,517, Sept. 1; Serial No. 642,816.
Maternity articles of apparel. M. G. Kelly. 579,360, Sept. 1; Serial No. 632,091, published June 9, 1953.
Neckties and belts, Men's. D. Mayers. 579,518, Sept. 1; Serial No. 634,105.
Neckties, handkerchiefs, gloves, etc., Men's. Bronzini, Ltd. 579,405, Sept. 1; Serial No. 636,338, published June 2, 1953.
Outerwear, Men's, women's, boys' and girls', knitted and woven. Manchester Knitted Fashions, Inc. 579,432, Sept. 1; Serial No. 638,265, published June 2, 1953.
Overcoats, sport jackets, Men's, and men's suits. Joseph Clavin & Co. Inc. 579,443, Sept. 1; Serial No. 638,764, published June 2, 1953.
Palm and finger stall protective covers for gloves. Advance Glove Manufacturing Company. 574,989, May 26, 1953. Corrected. O. G. Sept. 1.
Robes, Women's and misses'. Royal Robes, Inc. 579,326, Sept. 1; Serial No. 626,641, published June 2, 1953.
Shirts, Men's and women's knitted. J. P. Lasley. 579,416, Sept. 1; Serial No. 637,381, published May 26, 1953.
Shirts, undersuits, under-shorts, etc., Men's and boys'. Piedmont Shirt Company. 579,414, Sept. 1; Serial No. 637,267, published June 2, 1953.
Shoes, Leather. Weyenberg Shoe Manufacturing Company. 305,641, renewed Aug. 22, 1953. O. G. Sept. 1.
Skirts, Ladies' and misses'. Martin Fishkop & Co. 579,434, Sept. 1; Serial No. 638,357, published June 9, 1953.
Sportswear, aviation clothing. E. Bauer. 579,298, Sept. 1; Serial No. 635,809, published May 19, 1953.
Stoles, scarves, jackets, capes, etc. J. Weinig & Son. 579,491, Sept. 1; Serial No. 581,225.
Suits and coats, Men's. Friedman-Marks Clothing Co., Inc. 579,400, Sept. 1; Serial No. 635,914, published May 19, 1953.
Suits and slacks, Boys'. Boy-Crest Clothes, Inc. 579,344, Sept. 1; Serial No. 628,464, published June 2, 1953.
Suits, coats, slacks, etc., Men's. A. Sagner's Son. 579,514, Sept. 1; Serial No. 634,923.
Suits, Men's. Robert Hall Clothes, Inc. 579,325, Sept. 1; Serial No. 626,626, published June 2, 1953.
Suits, Men's. Merit Clothing Company. 579,335, Sept. 1; Serial No. 627,692, published May 19, 1953.
Suits, trousers, coats, vests, etc., Men's and boys'. Bond Stores, Incorporated. 305,592, renewed Aug. 22, 1953. O. G. Sept. 1.
Swimsuits and swimming trunks, Ladies', men's, and boys'. Cisco-California, Inc. 579,415, Sept. 1; Serial No. 637,361, published June 2, 1953.
Topcoats, overcoats, raincoats, etc. A. M. Scharpel. 579,269, Sept. 1; Serial No. 606,327, published May 26, 1953.
Trousers and slacks, Men's and boys'. Webster Company, Inc. 579,296, Sept. 1; Serial No. 621,093, published June 24, 1952.
Underwear, Men's. Walter W. Moyer Company. 579,271, Sept. 1; Serial No. 610,575, published May 26, 1953.
Underwear, nightgowns and pajamas, slips, etc., Women's. Her Majesty Underwear Company. 579,359, Sept. 1; Serial No. 631,615, published June 9, 1953.

CLASS 42

Blankets, Babies' crib. Stern Brothers. 579,464, Sept. 1; Serial No. 640,311, published June 9, 1953.
Curtains, Window. Bartmann & Bixer, Inc. 579,452, Sept. 1; Serial No. 639,310, published June 2, 1953.
Curtains, Window and shower, ruffling for rodless curtains, and tablecloths. Joseph's. 579,319, Sept. 1; Serial No. 626,208, published June 9, 1953.
Fabric, Woven. C. R. Anthony Company. 579,362, Sept. 1; Serial No. 632,236, published June 9, 1953.
Fabrics. Cone Mills Inc. 579,440, Sept. 1; Serial No. 638,699, published June 9, 1953.
Fabrics. Cone Mills Inc. 579,451, Sept. 1; Serial No. 639,265, published June 9, 1953.
Fabrics. Dumari Textile Co., Inc. 306,401, renewed Sept. 19, 1953. O. G. Sept. 1.
Fabrics in the piece. Marlboro Fabrics, Inc. 579,342, Sept. 1; Serial No. 628,215, published June 2, 1953.
Fabrics, Knitted. Barbet Mills, Inc. 579,463, Sept. 1; Serial No. 640,253, published June 9, 1953.
Fabrics, Linen. Union Liniere d'Exportation, S. A. R. L. 579,351, Sept. 1; Serial No. 630,043, published June 9, 1953.
Fabrics, Rubberized. Archer Rubber Company. 303,342, renewed May 23, 1953. O. G. Sept. 1.
Fabrics, Textile. C. M. De Land. 579,437, Sept. 1; Serial No. 638,478, published June 9, 1953.
Fabrics, Textile. D. B. Fuller & Co., Inc. 579,518, Sept. 1; Serial No. 643,950.
Fabrics, Textile. The Scholl Mfg. Co., Inc. 579,347, Sept. 1; Serial No. 629,060, published June 9, 1953.
Fabrics, Textile. Tanbro Fabrics Corp. 579,455, Sept. 1; Serial No. 639,346, published June 9, 1953.
Fabrics, Woolen and worsted. The House of Swansdown, Inc. 579,391, Sept. 1; Serial No. 634,595, published June 9, 1953.
Fabrics, Woolen and worsted. The House of Swansdown, Inc. 579,394, Sept. 1; Serial No. 635,188, published June 9, 1953.

Fabrics, Woolen and worsted. Pola Stout Inc. 579,292, Sept. 1; Serial No. 634,952, published June 9, 1953.
Fabrics, Woven textile. Dorset Woolen Company. 307,606, renewed Oct. 31, 1953. O. G. Sept. 1.
Piece goods. Butler Brothers. 579,436, Sept. 1; Serial No. 638,472, published June 2, 1953.
Piece goods. Spectrum Fabrics Corporation. 579,422, Sept. 1; Serial No. 637,726, published June 2, 1953.
Piece goods. United Merchants and Manufacturers, Inc. 579,419, Sept. 1; Serial No. 637,507, published June 2, 1953.
Piece goods, Cotton. Glenoe Mills. 579,372, Sept. 1; Serial No. 632,933, published June 2, 1953.
Piece goods, Textile. The Harodite Finishing Company, Inc. 579,465, Sept. 1; Serial No. 640,397, published June 9, 1953.
Piece goods, Woolen. A. D. Juilliard & Co., Inc. 579,431, Sept. 1: Serial No. 638,087, published June 9, 1953.
Piece goods, Woolen. The Warren Woolen Co. 579,520, Sept. 1; Serial No. 644,582.
Rugs, Bath, and lid covers, bedspreads, and textile carpets and rugs. Cabin Crafts, Inc. 579,453, Sept. 1; Serial No. 639,312, published June 9, 1953.
Rugs, Cotton braided. Topton Rug Manufacturing Co. 579,461, Sept. 1; Serial No. 639,858, published June 2, 1953.
Sheets and pillow cases. J. P. Stevens & Co., Inc. 579,356, Sept. 1; Serial No. 631,822, published Jan. 13, 1953.
Table cloths, Woven, and woven table napkins. Ellison & Spring, Inc. 579,462, Sept. 1; Serial No. 640,149, published June 9, 1953.
Wool carpeting. Peirce and Company. 579,425, Sept. 1; Serial No. 637,885, published June 2, 1953.

CLASS 43

Yarns, Art needlework. Bernhard Ulmann Co., Inc. 579,466, Sept. 1; Serial No. 640,591, published June 9, 1953.
Yarns, Wool. Spinnerin Yarn Co., Inc. 579,374, Sept. 1; Serial No. 633,176, published June 2, 1953.

CLASS 44

Dental alloy. American Platinum Works. 307,267, renewed Oct. 24, 1953. O. G. Sept. 1.
Prophylactic rubber articles. Holland-Rantos Company, Inc. 306,185, renewed Nov. 21, 1953. O. G. Sept. 1.

CLASS 45

Natural mineral and aerated drinking waters and ginger beer. Schweppes (Colonial & Foreign) Limited. 304,177, June 27, 1933. Republished Sept. 1.

CLASS 46

Barbecue sauce, Hot and mild. E. I. Napier. 579,406, Sept. 1; Serial No. 636,373, published June 2, 1953.
Bread. J. H. Axelson. 579,382–3, Sept. 1; Serial Nos. 633,956–7, published June 9, 1953.
Candy. The Jolly Rancher, Incorporated. 579,454, Sept. 1; Serial No. 639,332, published June 2, 1953.
Candy. Kerr's Butter Scotch, Inc. 579,245, Sept. 1; Serial No. 559,159, published June 9, 1953.
Candy. H. W. Powers. 579,503, Sept. 1; Serial No. 623,476.
Candy. Zion Industries, Inc. 579,471, Sept. 1; Serial No. 642,005, published June 2, 1953.
Canned cat food. Lind & Lind. 579,395, Sept. 1; Serial No. 635,367, published June 2, 1953.
Canned clam chowder, bottled tartar sauce, canned fish chowder, etc. J. August. 579,376–7, Sept. 1; Serial Nos. 633,482–3, published June 2, 1953.
Canned fish. Davis Bros. Fisheries Co., Inc. 579,492, Sept. 1; Serial No. 588,202.
Canned foods. Chas. B. Silver & Son. 410,474, Nov. 28, 1944. New certificate. O. G. Sept. 1.
Canned fruit, rice, sauerkraut, etc. Campbell Holton & Co. 579,273, Sept. 1; Serial No. 612,453, published Sept. 23, 1952.
Canned salmon. Columbia River Packers Association. 93,077–8, re-renewed Aug. 19, 1953. O. G. Sept. 1.
Canned salmon. Warren Packing Company. 91,144, Apr. 15, 1913. Republished Sept. 1.
Canned sardines. Feu Hermanos Responsabilidade Limitada. 579,329, Sept. 1; Serial No. 627,057, published May 12, 1953.
Canned tomatoes, tomato paste, manufactured macaroni, cheese. Jean Bari & Co., Inc. Import-Export. 579,456, Sept. 1; Serial No. 639,406, published June 2, 1953.
Caviar, Imported Russian sturgeon. Romanoff Caviar Company. 307,758, renewed Oct. 31, 1953. O. G. Sept. 1.
Cheese. Roethlisberger & Sohn A. G. 579,255, Sept. 1; Serial No. 591,638, published May 26, 1953.
Chili pepper. Chili Products Corporation Ltd. 579,481, Sept. 1; Serial No. 643,646, published June 2, 1953.
Chili pepper. Chili Products Corporation Ltd. 579,482, Sept. 1; Serial No. 643,648, published June 2, 1953.
Chili powder. Chili Products Corporation Ltd. 579,483, Sept. 1; Serial No. 643,649, published June 2, 1953.
Chocolate coating, Imitation. Fruit Products Corporation. 579,290, Sept. 1; Serial No. 618,961, published June 2, 1953.
Coffee and for blended flour. Big Bear Stores Company. 579,256, Sept. 1; Serial No. 595,118, published June 2, 1953.
Coffee concentrates. Rudd-Melikian, Inc. 579,249, Sept. 1; Serial No. 577,497, published June 2, 1953.
Cookies. Albers Super Markets, Inc. 579,469, Sept. 1; Serial No. 641,825, published June 2, 1953.
Corn oil, Crude. Schenley Distillers, Inc. 579,274, Sept. 1; Serial No. 612,510, published Dec. 11, 1951.
Cranberry sauce, cranberry jelly. American Cranberry Exchange, Incorporated. 193,249, Dec. 23, 1924. Amended. O. G. Sept. 1.
Dairy products. St. Louis Dairy Company. 306,169, renewed Nov. 21, 1953. O. G. Sept. 1.
Dough, Uncooked or unbaked. Ballard & Ballard Co. 579,239, Sept. 1; Serial No. 541,387, published June 2, 1953.
Fillets, Fresh fish. John Mantia & Sons. 301,175, renewed Feb. 21, 1953. O. G. Sept. 1.
Flavoring extracts and imitations thereof and food flavoring syrups. W. Burton & Co., Inc. 304,115, renewed June 20, 1953. O. G. Sept. 1.
Flour, Wheat. Duluth Universal Milling Company. 579,264, Sept. 1; Serial No. 607,662, published June 2, 1953.
Flour, Wheat. Liberty Mills. 333,381, Mar. 17, 1936. New certificate. O. G. Sept. 1.
Flour, Wheat. Pillsbury Mills, Inc. 579,247, Sept. 1; Serial No. 565,450, published June 2, 1953.
Food. Wardley Products Co. 579,502, Sept. 1; Serial No. 621,292.
Food, Dog and cat. W. H. Smith. 579,473, Sept. 1; Serial No. 642,173, published June 2, 1953.
Food, Infant. The Baker Laboratories, Inc. 579,328, Sept. 1; Serial No. 627,036, published Jan. 27, 1953.
Frankfurters. Sabrett Food Products, Corp. 579,354, Sept. 1; Serial No. 630,662, published May 26, 1953.
Fruit, Fresh citrus. Escondido Lemon Association. 579,240, Sept. 1; Serial No. 545,109, published June 9, 1953.
Fruit, Fresh citrus. A. P. Koentopp. 579,495, Sept. 1; Serial No. 603,690.
Fruits, Fresh citrus. Escondido Orange Association. 579,241–2, Sept. 1; Serial Nos. 545,110–11, published June 2, 1953.
Ham. Modern Food Process Company. 307,669, renewed Oct. 31, 1953. O. G. Sept. 1.
Ice cream. Cloquet Creamery. 305,452, renewed Aug. 15, 1953. O. G. Sept. 1.
Ice cream. Loft Candy Corporation. 579,341, Sept. 1; Serial No. 628,156, published June 2, 1953.
Ice cream cones. York Cone Company. 579,352, Sept. 1; Serial No. 630,177, published June 2, 1953.
Lard. Lookout Oil and Refining Company. 579,331, Sept. 1; Serial No. 627,201, published June 2, 1953.
Marshmallow and marshmallow creams, corn syrup, and table syrup. Union Starch & Refining Company. 579,324, Sept. 1; Serial No. 626,484, published June 2, 1953.
Oleomargarin. The Ohio Butterine Co. 94,023, re-renewed Oct. 28, 1953. O. G. Sept. 1.
Olive oil. Aceites Bau, S. A. 579,488, Sept. 1; Serial No. 561,707.
Olive oil. Francesco Bertolli S. P. A. 298,441, renewed Oct. 25, 1952. O. G. Sept. 1.
Orange juice, Quick frozen concentrated. Clinton Foods Inc. 579,399, Sept. 1; Serial No. 635,872, published June 9, 1953.
Popcorn. Premier Popcorn Co. 579,378, Sept. 1; Serial No. 633,508, published June 2, 1953.
Salt, Table. Church & Dwight Co., Inc. 579,479, Sept. 1; Serial No. 643,029, published June 9, 1953.
Sandwiches and bakery goods. Continental Grill. 579,291, Sept. 1; Serial No. 619,451, published June 2, 1953.
Shell fish, etc., Fresh, frozen, and canned. Queen Charlotte Canners, Limited. 567,794, Dec. 9, 1952. New certificate. O. G. Sept. 1.
Shell fish, etc., Fresh, frozen, and canned. Queen Charlotte Canners, Limited. 567,796, Dec. 9, 1952. New certificate. O. G. Sept. 1.
Shrimps, Cleaned and frozen uncooked. Redi-Food Co. 579,500, Sept. 1; Serial No. 612,871.
Tea. Holland House Coffee and Tea Corp. 579,333, Sept. 1; Serial No. 627,391, published June 2, 1953.
Tomatoes, Fresh. F. Markowitz. 579,516, Sept. 1; Serial No. 642,675.
Vegetables, Fresh. W. C. Ferguson. 305,865, renewed Aug. 29, 1953. O. G. Sept. 1.
Vegetables, Fresh. Schuman-Anderholt Co. 579,477, Sept. 1; Serial No. 642,997, published June 9, 1953.

CLASS 48

Malt beverage. Gabriel u. Jos. Sedlmayr Spaten-Franziskaner-Leistbräu A.-G. München. 304,894, renewed July 18, 1953. O. G. Sept. 1.

CLASS 50

Pennants, banners, and prize ribbons; etc. Grand Aerie Fraternal Order of Eagles. 579,265, Sept. 1; Serial No. 607,992, published May 19, 1953.
Pennants, banners, and prize ribbons; etc. Grand Aerie Fraternal Order of Eagles. 579,266, Sept. 1; Serial No. 607,995, published May 19, 1953.

Pennants, banners, and prize ribbons; etc. Grand Aerie Fraternal Order of Eagles. 579,267, Sept. 1; Serial No. 607,999, published May 19, 1953.
Plastic sheeting or film, Flexible. The Landers Corporation. 579,320, Sept. 1; Serial No. 626,389, published May 19, 1953.
Straws, Drinking. Tested Papers of America, Inc. 579,285, Sept. 1; Serial No. 618,525, published May 12, 1953.

CLASS 51

Brilliantine, Solid hair, pomade, and liquid brilliantine. P. E. Chu. 579,286, Sept. 1; Serial No. 616,816, published Apr. 28, 1953.
Cosmetics. Max Factor & Co. 579,263, Sept. 1; Serial No. 606,373, published May 12, 1953.
Cream rouge, eye shadow, rouge, cleansing cream, etc. Maison Jeurelle, Inc. 307,947, renewed Nov. 14, 1953. O. G. Sept. 1.
Dentifrices, tooth powder, astringents, and mouth washes. The R. L. Watkins Company. 306,383, renewed Aug. 15, 1953. O. G. Sept. 1.
Facial cream preparations, toilet preparation and hand creams. Amole, Incorporated. 579,315, Sept. 1; Serial No. 625,389, published May 12, 1953.
Hand cream. Polychrome Corporation. 579,268, Sept. 1; Serial No. 606,122, published May 19, 1953.
Lavender water, brilliantine, talcum powder, etc. J. G. Mouson & Co. 579,314, Sept. 1; Serial No. 625,320, published May 19, 1953.
Lipstick, rouge, and face powder. Coty, Inc. 579,327, Sept. 1; Serial No. 626,861, published Apr. 28, 1953.
Lotion, After shave, brilliantine, eau de cologne, etc. Lucky Strike Perfumeries Corporation. 579,306, Sept. 1; Serial No. 623,357, published May 12, 1953.
Lotion, Hair and scalp. The Honig Corporation. 579,279, Sept. 1; Serial No. 614,504, published May 12, 1953.
Lotion, Neutralising. Sales Affiliates, Inc. 579,305, Sept. 1; Serial No. 623,261, published May 12, 1953.
Perfume. J. Tetlow. 57,823, re-renewed Aug. 6, 1952. O. G. Sept. 1.
Perfumes and toilet waters. Henri Bendel Company. 305,396, renewed Aug. 15, 1953. O. G. Sept. 1.
Perfumes, toilet waters, colognes, etc. Maurice Fabricant. 579,365, Sept. 1; Serial No. 632,554, published Apr. 28, 1953.
Perfumes, toilet waters, colognes, etc. Maurice Fabricant. 579,366, Sept. 1; Serial No. 632,555, published May 12, 1953.
Perfumes, toilet waters, colognes, etc. Maurice Fabricant. 579,367, Sept. 1; Serial No. 632,557, published Apr. 28, 1953.
Perfumes, toilet waters, colognes, cologne sticks, etc. Maurice Fabricant. 579,368, Sept. 1; Serial No. 632,559, published Apr. 28, 1953.
Permanent wave solution. J. E. Bernfeld. 579,312, Sept. 1; Serial No. 625,092, published May 19, 1953.
Preparations for repairing, preserving, and beautifying finger nails and toe nails. Juliette Margles, Inc. 579,361, Sept. 1; Serial No. 632,164, published May 19, 1953.
Protective jel for application and rubbing into the skin. Hygiene Research, Inc. 579,427, Sept. 1; Serial No. 637,923, published May 19, 1953.
Shaving cream. Hammond Research Corporation. 579,258, Sept. 1; Serial No. 598,792, published May 19, 1953.
Skin cream cleanser. R. Adams. 579,281, Sept. 1; Serial No. 633,905, published May 19, 1953.

CLASS 52

Cleaning fluid. Rose Kallaian Rug Co. 579,504, Sept. 1; Serial No. 623,514.
Compound in the nature of a disinfectant, bleach, cleanser, and deodorant. L. Rosati. 579,250, Sept. 1; Serial No. 590,857, published June 2, 1953.
Soap. Elizabeth Arden, Inc. 307,998, renewed Nov. 14, 1953. O. G. Sept. 1.
Varnishes, paint enamels, lacquers, etc. Wagner Paint Company. 292,009, Mar. 1, 1932. Republished Sept. 1.

CLASS 100

Chemical engineering services. Hall Laboratories, Incorporated. 579,521, Sept. 1; Serial No. 594,217.

CLASS 101

Advertising the goods and services of others. R. J. Dean. 579,486, Sept. 1; Serial No. 606,370, published June 9, 1953.

CLASS 104

Broadcasting of radio and television programs. Hall Broadcasting and Television Company, Inc. 579,487, Sept. 1; Serial No. 606,000, published June 9, 1953.

CLASS 106

Finishing hosiery. Rex Hosiery Finishers, Inc. 579,522, Sept. 1; Serial No. 606,065.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 1ST DAY OF SEPTEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Ackermann, Frans, Binningen, assignor to Ciba Limited, Basel, Switzerland. Amino-coumarin-sulfonates. Re. 23,703, Sept. 1.

Ciba Limited, assignee: *See*—
Ackermann, Frans.

De Lay Industries, Inc., assignee: *See*—
De Lay, Manford S.

De Lay, Manford S., assignor to De Lay Industries, Inc., St. Louis, Mo. Load equalizing device. Re. 23,704, Sept. 1.

Du Mont, Allen B., Laboratories, Inc., assignee: *See*—
Maron, Meyer.

Kamlet, Jonas, New York, N. Y., assignor to Miles Laboratories, Inc., Elkhart, Ind. Diagnostic compositions. Re. 23,705, Sept. 1.

Lange, Harold T., Webster Groves, assignor to Sporlan Valve Company, St. Louis, Mo. Refrigerant expansion valve. Re. 23,706, Sept. 1.

Maron, Meyer, Passaic, assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J. Direct current balance adjustment. Re. 23,707, Sept. 1.

McKowen, William, Des Moines, Iowa. Loose-leaf binder. Re. 23,708, Sept. 1.

Miles Laboratories, Inc., assignee: *See*—
Kamlet, Jonas.

Page, Irving, New York, N. Y. Automatic gas and electric pressure cooker. Re. 23,709, Sept. 1.

Sporlan Valve Company, assignee: *See*—
Lange, Harold T.

LIST OF PLANT PATENTEES

Descanso Distributors, Inc., assignee: *See*—
Lammerts, Walter E.

Edwards, Lawrence C., Oakland, Calif. Plum tree. 1,213, Sept. 1.

Lammerts, Walter E., assignor to Descanso Distributors, Inc., La Canada, Calif. Camellia plant. 1,215, Sept. 1.

Ulery, Dale W., assignor to Ulery Greenhouses, Springfield, Ohio. African violet plant. 1,214, Sept. 1.

Ulery Greenhouses, assignee: *See*—
Ulery, Dale W.

LIST OF DESIGN PATENTEES

American Optical Company, assignee: *See*—
Armbruster, John T.

Armbruster, John T., Niagara Falls, N. Y., assignor to American Optical Company, Southbridge, Mass. Vision testing device. 170,296, Sept. 1.

Aschembrenner, William, Denver, Colo. Trailer. 170,297, Sept. 1.

Barbee, Stanley N., Los Angeles, Calif. Bottle. 170,298, Sept. 1.

Bausch & Lomb Optical Company, assignee: *See*—
Stegeman, Raymond F. E.

Beerbaum, Helmut D.: *See*—
Lux, Frederick, and Beerbaum.

Black, James A., Grand Rapids, Mich. Silk screen stencil machine. 170,299, Sept. 1.

Boucher, Marcel, Eltingville, N. Y. Brooch or similar article. 170,300, Sept. 1.

Branick, Charles E., Fargo, N. Dak. Fluid pressure operated bumper jack for automotive vehicles. 170,301, Sept. 1.

Brunswick-Balke-Collender Company, The, assignee: *See*—
Chapman, David, and Reineman.

Cabot, Petra, New York, N. Y., and H. M. Piker, Wyoming, Ohio. Insulated pail. 170,302, Sept. 1.

Chadbourn Hosiery Mills, Inc., assignee: *See*—
Hoffecker, Frank.

Chapman, David, Chicago, Ill., and R. G. Reineman, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill. Tablet armchair or the like. 170,303, Sept. 1.

Chapman, David, Chicago, Ill., and R. G. Reineman, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill. Desk top armchair or the like. 170,304, Sept. 1.

Claus, Earl W., Kirkwood, assignor to Shampaine Company, St. Louis, Mo. Physician's examining table. 170,305, Sept. 1.

Clement, Melville W., and H. L. Stevenson, Jamestown, N. Y. End support for books and the like. 170,306, Sept. 1.

Collura, Francesco, New York, N. Y., assignor to The Winsted Hardware Manufacturing Company, Winsted, Conn. Food and beverage hand mixer. 170,307, Sept. 1.

Courtenay, Dudley, Summit, N. J. Combined ash tray and nine knocker. 170,308, Sept. 1.

Curtis, Harry E., Willoughby, and G. L. Egbert, Cleveland, Ohio. Receptacle for newspapers and the like. 170,309, Sept. 1.

Destun, Paul, St. Thomas, Ontario, Canada. Soft drink dispensing machine. 170,310, Sept. 1.

Doherty, Donald W., Crystal Lake, assignor to Queen Manufacturing Co., Inc., Chicago, Ill. Utility stool. 170,311, Sept. 1.

Egbert, Glenn L.: *See*—
Curtis, Harry E., and Egbert.

Foster, Agnes C., assignee: *See*—
Foster, Edward J.

Foster, Edward J., assignor to A. C. Foster, Cincinnati, Ohio. Drinking glass. 170,312, Sept. 1.

Franck, George B., Riverside, assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Engine priming device. 170,313, Sept. 1.

Gaspari, Joseph, Rye, N. Y. Pair of spectacles. 170,314, Sept. 1.

Gerber, Walter, St. Louis, Mo. Adjustable rotatable television table. 170,315, Sept. 1.

Gottlieb, Richard A., Detroit, Mich. Flashlight. 170,316, Sept. 1.

Hawkins, Homer: *See*—
Hawkins, Wallace H. and H.

Hawkins, Wallace H. and H., Panama City, Fla. Automobile ornament. 170,317, Sept. 1.

Hiltenbrand, Frank X., Ridgefield, N. J. Handbag. 170,318, Sept. 1.

Hoffecker, Frank, assignor to Chadbourn Hosiery Mills, Inc., Charlotte, N. C. Lady's stocking. 170,319, Sept. 1.

Holge, George B., Long Island City, N. Y. Cigarette holder. 170,320, Sept. 1.

Huston, Walter R., Napoleon, Ohio. Box for crayons or similar article. 170,321, Sept. 1.

Imperial Brass Manufacturing Company, The, assignee: *See*—
Franck, George B.

Jones, Maude P., Bremerton, Wash. Doll. 170,322, Sept. 1.

Keyes Fibre Company, assignee: *See*—
Randall, Walter H.

Lindemann, Howard C., Great Neck, N. Y. Table lamp. 170,323, Sept. 1.

Lux Clock Manufacturing Company, Inc., The, assignee: *See*—
Lux, Frederick, and Beerbaum.

Lux, Frederick, Middlebury, and H. D. Beerbaum, Wolcott, assignors to The Lux Clock Manufacturing Company, Inc., Waterbury, Conn. Clock casing. 170,324, Sept. 1.

MacKay Kenneth H., Ocala, Fla. Cupholder attachment. 170,325, Sept. 1.
Mathews, Pearl M., St. Louis, Mo. Doll. 170,326, Sept. 1.
Mazzullo, John B., Washington, D. C. Armrest. 170,327, Sept. 1.
McDermott, Julian A., Corona, N. Y. Warning lamp for mounting atop an emergency vehicle. 170,328, Sept. 1.
McDonald Products Corporation, assignee: *See*—
Vevirit, James V.
Miller, Beatrice L.: *See*—
Parker, Gordon, and Miller.
Miller, Howard O., Chicago, Ill. Combined workbench, cabinet, and overhead trolley support. 170,329, Sept. 1.
Miller, Leonidas C., Los Angeles, Calif. Air compressor unit. 170,330, Sept. 1.
Moore, Roy C., Dallas, Tex. Folding desk chair. 170,331, Sept. 1.
Neglia, Frank, Old Tappan, N. J. Handbag. 170,332, Sept. 1.
Nestler, Paul R., Green Lane, Pa. Stocking. 170,333, Sept. 1.
Noyes, Marion A., West Newbury, assignor to Towle Manufacturing Company, Newburyport, Mass. Knife or the like. 170,334, Sept. 1.
Park, Malcolm S., Mount Kisco, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine frame. 170,335, Sept. 1.
Parker, Gordon, Alliance, and B. L. Miller, Cleveland, assignors to Royal China Inc., Sebring, Ohio. Plate or the like. 170,336, Sept. 1.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 170,337, Sept. 1.
Piker, Herbert M.: *See*—
Cabot, Petra, and Piker.
Queen Manufacturing Co., Inc., assignee: *See*—
Doherty, Donald W.
Randall, Walter H., Waterville, assignor to Keyes Fibre Company, Portland, Maine. Serving tray. 170,338, Sept. 1.
Reineman, Richard G.: *See*—
Chapman, David, and Reineman.
Riordan, John A., Denver, Colo. Combined piston resizer and motor support. 170,339, Sept. 1.
Royal China Inc., assignee: *See*—
Parker, Gordon, and Miller.
Salny, Roslyn W., Morristown, N. J. Stole. 170,340, Sept. 1.
Schenck, Evaline L., Columbus, Ohio. Ring or the like. 170,341, Sept. 1.
Shampaine Company, assignee: *See*—
Claus, Earl W.
Singer Manufacturing Company, The, assignee: *See*—
Park, Malcolm S.
Skwark, Marion E., Binghamton, N. Y. Venetian blind cover. 170,342, Sept. 1.
Stegeman, Raymond F. E., Greece, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Spectacle case. 170,343, Sept. 1.
Stevenson, Harry L.: *See*—
Clement, Melville W., and Stevenson.
Taylor, James Y., Garland, Tex. Projection apparatus. 170,344, Sept. 1.
Towle Manufacturing Company, assignee: *See*—
Noyes, Marion A.
Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.
Vevirit, James V., Kenmore, assignor to McDonald Products Corporation, Buffalo, N. Y. Ash tray. 170,345, Sept. 1.
Winsted Hardware Manufacturing Company, The, assignee: *See*—
Collura, Francesco.
Wolf, Oscar, Trenton, N. J. Handbag. 170,346, Sept. 1.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 1ST DAY OF SEPTEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abraham, James G., Laguna Beach, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Drawworks feed control. 2,650,706, Sept. 1.
Acton, John R., Bunny, assignor to Ericsson Telephones Limited, London, England. Electronic counting and/or selecting arrangement. 2,651,004, Sept. 1.
Adams, Charles H., Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Rolling contact extensometer. 2,650,432, Sept. 1.
Adams, George P., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Material weighing apparatus. 2,650,791, Sept. 1.
Aden, Clarence R., Milwaukee, Wis. Cam-lever controlled, slidable jaw wrench with toggle locking means. 2,650,511, Sept. 1.
Adkins, Robert T., Lakewood, and R. J. Kuschel, North Olmsted, Ohio. Copyholder. 2,650,589, Sept. 1.
Adler, Robert, Northfield, Ill., assignor to Zenith Radio Corporation. Cathode structure for electron-discharge devices. 2,650,996, Sept. 1.
Adler, William F., Pittsburgh, Pa. Transportation system and equipment. 2,650,731, Sept. 1.
Aerodin Corporation, assignee: *See*—
Fritsberg, Lawrence H.
Agar, George W. A., assignor to Atlas Products (N. Z.) Limited, Wellington, New Zealand. Apparatus for the manufacture of roofing tiles and the like. 2,650,408, Sept. 1.
Airmaco Products Limited, assignee: *See*—
Needham, John E. C.
Aktiengesellschaft Brown, Boveri & Cie, assignee: *See*—
Amstutz, Arnold.
Alessio, John S., San Diego, Calif. Portable attachment for dog race tracks. 2,650,828, Sept. 1.
Allen-Bradley Company, assignee: *See*—
Dawe, Albert J.
Allen, Edwin L., Cleveland Heights, assignor, by mesne assignments, to E. I. Schonitzer, Cleveland, Ohio. Door control mechanism. 2,650,846, Sept. 1.
Aller, Edmund R., Ogden Dunes, Ind., J. M. Gleason, La Grange Park, Ill., and L. Matolin, East Chicago, Ind., assignors to General American Transportation Corporation, Chicago, Ill. Hopper car for storage and transportation of finely divided materials. 2,650,726, Sept. 1.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Tanke, Willard H.
Allison, Kenneth C., Crystal Lake, assignor to Grigsby-Allison Company, Inc., Arlington Heights, Ill. Electric switch. 2,650,959, Sept. 1.
Allison, Kenneth C., Crystal Lake, assignor to Grigsby-Allison Company, Inc., Arlington Heights, Ill. Rotary electric switch assembly. 2,650,960, Sept. 1.
Allin, Jesse B., Mercedes, Tex. Flush valve guide. 2,650,389, Sept. 1.
Alumalath Corporation of Texas, assignee: *See*—
Coward, Olgar G.
Aluminum Company of America, assignee: *See*—
Zelley, Walter G.
American Asbestos Industries, Inc., assignee: *See*—
Bernard, William and J.
American Car and Foundry Company, assignee: *See*—
Anderson, Harold G., and Parsons.
Geyer, Wallace T., Learn, and Sult.
American Chronoscope Corporation, assignee: *See*—
Shelley, Edwin F.
American Cyanamid Company, assignee: *See*—
Scalera, Mario, and Hardy.
American Dairies, Incorporated, assignee: *See*—
Graham, William R., Jr., Kohler, and Hoover.
American Locomotive Company, assignee: *See*—
Michaels, Hunter, and Fleck.
American Machine and Foundry Company, assignee: *See*—
McGinley, James J.
American-Marietta Company, assignee: *See*—
Pflaumer, Robert E.
American Seating Company, assignee: *See*—
Neahr, William R., and Davis.
Nordmark, Walter E., and Peel.
American Steel Foundries, assignee: *See*—
Pierce, Raymond C.
American Type Founders, Inc., assignee: *See*—
Rose, Lucien A.
American Viscose Corporation, assignee: *See*—
Kreamer, William H.
American Window Glass Company, assignee: *See*—
Klages, Norman H.
Amidon, Elgan C., Medford, Oreg. Level controller. 2,650,606, Sept. 1.
Amstutz, Arnold, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Pneumatic drive and damping device therefor. 2,650,572, Sept. 1.
Anchor Manufacturing Company, assignee: *See*—
Johansson, Ernest G.
Anderson, Harold G., Fort Lee, N. J., and G. B. Parsons, Roosevelt, assignors to American Car and Foundry Company, New York, N. Y. Wheel housing cover. 2,650,547, Sept. 1.
Anderson, Walter A., Trumbull, Conn., assignor to Underwood Corporation, New York, N. Y. Paper guide for accounting machines. 2,650,688, Sept. 1.
Armer, Austin A., Davis, assignor to Sprockels Sugar Company, San Francisco, Calif. Sampling machine. 2,650,498, Sept. 1.
Armstrong, W. G., Sr., Whitworth & Company (Engineers), Limited, assignee: *See*—
Mansfield, Wilfred P., and White.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Greenwald, Lewis.
Zaroff, William J., and Boor.
Atlas Products (N. Z.) Limited, assignee: *See*—
Agar, George W. A.
Audio Tool and Engineering Limited, assignee: *See*—
Tateishi, Arthur K.
Automatic Steel Products, Inc., assignee: *See*—
Wickwire, Arthur M., and Kessel.
Automotive Rubber Company, Incorporated, assignee: *See*—
Redmond, Robert L.
Ayerst, McKenna & Harrison, Limited, assignee: *See*—
Beall, Desmond, Grant, and Legault.
Bacchi, Ray, Daly City, assignor to The Pelton Water Wheel Company, San Francisco, Calif. Cone valve operator. 2,650,503, Sept. 1.
Baer, Massimo: *See*—
Fordyce, Reid G., and Baer.
Bahn, John J., Schenectady, N. Y., assignor to General Electric Company. Generator with removable top cooling dome. 2,650,994, Sept. 1.
Bailey Meter Company, assignee: *See*—
English, James F., Jr., and Hornfeck.
Hornfeck, Anthony J.
Baker, Harold R.: *See*—
Young, Charles A., and Baker.
Bales, Max G., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Ventilating system. 2,650,577, Sept. 1.
Ballinger, Wallace A., Orinda, Calif. Mop having a mop holding and securing bolt. 2,650,382, Sept. 1.
Balogh, Roy O., Cleveland, Ohio, assignor, by mesne assignments, to McCabe-Powers Auto Body Co., St. Louis, Mo. Ladder. 2,650,740, Sept. 1.
Bangs, Ralph C., Providence, R. I., assignor to Coro Inc. Separable catch for necklaces and the like. 2,650,398, Sept. 1.
Barber-Colman Company, assignee: *See*—
Seaman, Paul T.
Barbisch, Alfred A., Port Angeles, Wash. Sleeve puller. 2,650,419, Sept. 1.
Barnett, Harry, Gleneoe, assignor to The Powers Regulator Company, Chicago, Ill. Mixing valve. 2,650,604, Sept. 1.
Barr, Robert L., Glenview, and E. G. Hills, Chicago, Ill., assignors, by mesne assignments, to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrostatic precipitator. 2,650,672, Sept. 1.
Barrett, Arthur L.: *See*—
Rollins, Lester G., and Barrett.
Barricelli, Domenico, Genoa, Italy. Trestle boat-davit of the rotation and gravity type. 2,650,377, Sept. 1.
Bassick Company, The, assignee: *See*—
Herold, Walter F., and Parrott.
Bauer, Benjamin B., Oak Park, and L. Gunter, Jr., assignors to Shure Brothers, Incorporated, Chicago, Ill. Recording and reproducing head. 2,650,952, Sept. 1.
Beall, Desmond, Westmount, Quebec, G. A. Grant, and P. R. Legault, Montreal, Quebec, assignors to Ayerst, McKenna & Harrison, Limited, Montee St. Laurent, Montreal, Quebec, Canada. Piperazine estrogen salt and separation procedure. 2,650,918, Sept. 1.
Bear, Joseph B., Denison, Tex. Device for detecting unsafe condition of bridges. 2,650,560, Sept. 1.

Bebinger, Charles N., New Philadelphia, Ohio, assignor to Joy Manufacturing Company. Material loading apparatus. 2,650,692, Sept. 1.

Beers, Warren L., Cleveland, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vinyl chloride polymer plasticised with 3,5,5-trimethyl-1-hexanol-polybasic acid ester. 2,650,908, Sept. 1.

Behnke, Edward: *See*—
Jacobsson, Wilgot J., and Behnke.

Bell Aircraft Corporation, assignee: *See*—
Young, Arthur M.

Bell, Alfred B., Philadelphia, Pa. Bed lifter. 2,650,795, Sept. 1.

Bell & Gossett Company, assignee: *See*—
Tidd, Edwin B.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Hays, James B., Jr.
Heising, Raymond A.
Ketchledge, Raymond W.
Stropnicky, Joseph F.

Bendix Aviation Corporation, assignee: *See*—
Kaudson, Giltner J.
Seid, Bernard, Holmes, and Pauly.
Tognola, Tullio.

Bennett, Eldred C., and C. Powell, Detroit, Mich., assignors to Sterling Drug Inc., New York, N. Y. Cap lifting machine. 2,650,748, Sept. 1.

Bering, Horace L., Decatur, Ill., and T. P. Callahan, Springfield, Mass. Vent and filter plug closure. 2,650,873, Sept. 1.

Berman, Frank, Pewaukee, Wis. Writing pad unit for automobile steering wheels. 2,650,836, Sept. 1.

Bernard, Joseph: *See*—
Bernard, William and J.

Bernard, William and J., West Millington, assignors to American Asbestos Industries, Inc., Berkeley Heights, Township of New Providence, N. J. Apparatus for manufacturing cement-asbestos board. 2,650,524, Sept. 1.

Bernheim, Louis L., Richmond, Calif. Fruit picker device. 2,650,464, Sept. 1.

Bernight, Edward R., Pinellas Park, Fla. Valve construction. 2,650,579, Sept. 1.

Berry, Edward J., Providence, R. I., assignor to Draper Corporation, Hopedale, Mass. Bunch building method and apparatus. 2,650,769, Sept. 1.

Berstler, Francis E., Middletown, assignor of thirty-three and one-third per cent to C. V. Hoke, Hummelstown, and thirty-three and one-third per cent to E. O. Brubaker, Elizabethtown, Pa. Spark plug and ignition wire attachment means. 2,650,584, Sept. 1.

Betsch, Carl L., and F. H. Detrick, Philadelphia, Pa. Coating compositions. 2,650,909, Sept. 1.

Better Packages Incorporated, assignee: *See*—
Krueger, Theodore H.

Bigler Manufacturing Company, assignee: *See*—
Bigué, Emile B.

Bigué, Emile B., Beverly Hills, Calif., assignor to Bigler Manufacturing Company, Las Vegas, Nev. Toy bank. 2,650,686, Sept. 1.

Bilek, Frank J., assignor to The Globe Company, Chicago, Ill. Dry rendering cooker. 2,650,807, Sept. 1.

Bill, Robert O., San Leandro, Calif. Elevator for a portion of a vehicle bed. 2,650,724, Sept. 1.

Bills, Glenn W., Portland, Oreg. Network calculating board. 2,650,760, Sept. 1.

Bingaman, Walter, Champaign, Ill. Roll oiling apparatus for use with roll-making machines. 2,650,562, Sept. 1.

Bingham, Sidney H.: *See*—
Zeller, Theodore J., and Bingham.

Bituminous Coal Research, Inc., assignee: *See*—
Yellott, John I.

Bivens, Norman A., North Hollywood, Calif. Recoil pad. 2,650,446, Sept. 1.

Bjorksten Research Laboratories, Inc., assignee: *See*—
Meyer, Earl A.

Blatz, Albert V., Thiensville, assignor to A. O. Smith Corporation, Milwaukee, Wis. Side shift for crate lifting attachment. 2,650,733, Sept. 1.

Bledsoe, William K., Seattle, Wash., assignor to Boeing Airplane Company. Laminated glass-vinyl windshields. 2,650,800, Sept. 1.

Boeing Airplane Company, assignee: *See*—
Bledsoe, William K.
Fehring, Wendell B.
Findlay, James A.

Bogue Electric Manufacturing Co., assignee: *See*—
Herbst, John A.

Bohl, Robert C., Sturtevant, Wis., assignor to Redmond Company, Inc., Owosso, Mich. Electric windshield wiper control. 2,651,013, Sept. 1.

Boicey, James H.: *See*—
Geiser, Romey A., and Boicey.

Bonar, Floyd, and C. D. Pears, Morgantown, W. Va., assignors to the Government of the United States as represented by the Secretary of the Interior. Method and device for visual observation of dense-phase suspensions. 2,650,562, Sept. 1.

Boor, Ladislav: *See*—
Zaroff, William J., and Boor.

Borcovec, Werner, Minusio, near Locarno, assignor to A. Schadrack, Riva S. Vitale, Tessin, Switzerland. Massage appliance with heating device. 2,650,587, Sept. 1.

Borda, Romualdo, Quebrada Honda, Venezuela. Syringe. 2,650,592, Sept. 1.

Borrows, Edward T.: *See*—
Haward, Robert N., and Borrows.

Bourdon, Pierre M., Paris, assignor to Manufacture de Caoutchouc Michelin (Puiseux, Boulanger & Cie), Clermont-Ferrand, France. Shock absorber for railway draft riggings. 2,650,721, Sept. 1.

Bowen, J. Hartley, Jr., Haddonfield, N. J., and P. A. Gelber, Drexel Hill, Pa. Durability test device. 2,650,493, Sept. 1.

Boyd, Thomas, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. 2,2-bis-(tertiary butyl peroxy) butane catalyst for ethylene polymerizations. 2,650,913, Sept. 1.

Boydstun, Ira S., Houston, Tex. Volumetric measuring and dispensing device with container cutting and attaching means. 2,650,739, Sept. 1.

Boyer, Mahlon R., Metuchen, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Producing etched printing plates. 2,650,877, Sept. 1.

Boyer, Mahlon R., Metuchen, and A. W. Grumbine, Parlin, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing etched printing plates. 2,650,878, Sept. 1.

Braithwaite, Isaac, & Son Engineers Limited, assignee: *See*—
Howlett, Edward J.

Brandel, Leila C., Burbank, Calif. Slotted mixing spoon. 2,650,425, Sept. 1.

Brandt, Adrianus, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Gauge. 2,650,434, Sept. 1.

Braun, C. F., & Co., assignee: *See*—
Wansink, Leo P., and Haynes.

Bressler, Louis R., Southampton, Mass. Toothbrush with a flexible head. 2,650,383, Sept. 1.

Brickett, Sherman P., Lynn, Mass., assignor to General Electric Company. Oil discharge passage arrangement for high-speed bearings. 2,650,671, Sept. 1.

Bridwell, John W., M. M. Coker, and H. M. Williamson, assignors to Caterpillar Tractor Co., Peoria, Ill. Pump and motor hydraulic system and controls therefor. 2,650,473, Sept. 1.

Briggs & Stratton Corporation, assignee: *See*—
Jacobi, Edward N.

British Oxygen Company Limited, The, assignee: *See*—
Schuftan, Paul M.

Broetzler, Gustav A.: *See*—
Mashburn, William O., Jr., Broetzler, and Kinnaird.

Brose, Leonard C. and V. S., Burbank, Calif. Curtain rod structure. 2,650,714, Sept. 1.

Brose, Violet S.: *See*—
Brose, Leonard C. and V. S.

Brown Brothers & Co. Limited, assignee: *See*—
Mitchell, Colin C.

Brown, Dan A., Long Beach, and J. H. Hurlbut, South Gate, assignors to Rheem Manufacturing Company, Richmond, Calif. Safety gas valve. 2,650,766, Sept. 1.

Brown, Derrell E., Pacific Grove, Calif. Armrest attachment for vehicle seats. 2,650,650, Sept. 1.

Brown, Edwin H., Elm Grove, Wis., assignor to Union Stock Yards & Transit Company, Chicago, Ill. Method and apparatus for shipping and storing combustible gases. 2,650,478, Sept. 1.

Brown, Ellis M., and E. H. Forse, assignors to John Oster Manufacturing Company, Racine, Wis. Electric hair clipper. 2,650,993, Sept. 1.

Brown, William C., Lincoln, assignor to Raytheon Manufacturing Company, Newton, Mass. Electron-discharge system. 2,651,001, Sept. 1.

Brubaker, Ezra O., assignee: *See*—
Berstler, Francis E.

Brumbaugh, Isaac V., Clayton, Mo. Graduated universal valve for gas appliances with ported sleeve. 2,650,610, Sept. 1.

Brumbaugh, Isaac V., Clayton, Mo. Graduated universal valve for gas appliances. 2,650,612, Sept. 1.

Brumbaugh, Isaac V., Clayton, Mo. Graduated universal valve for gas appliances with slitted sleeve. 2,650,613, Sept. 1.

Brumbaugh, Isaac V., Clayton, Mo. Graduated universal valve for gas appliances with interconnected sleeve. 2,650,614, Sept. 1.

Bryant, Austin U., Berkeley, Calif., assignor, by mesne assignments, to M & J Engineering Co. Gas flow control apparatus. 2,650,607, Sept. 1.

Buckland, Bruce O.: *See*—
Howard, Alan, Buckland, and Rice.

Buckwalter, Howard M., Detroit, Mich., assignor to United States Rubber Company, New York, N. Y. Protection of cellulose against heat aging. 2,650,891, Sept. 1.

Budd Company, The, assignee: *See*—
Coombes, Joseph H., and Mann.
Dean, Albert G.
Watter, Michael, and Eggert.

Bugg, Kenly C., assignor to Materials Blasting Company, Inc., Fort Wayne, Ind. Blasting cartridge. 2,650,540, Sept. 1.

Bujak, Henry C., assignor to Vickers Incorporated, Detroit, Mich. Power transmission. 2,650,484, Sept. 1.

Burkardt, Anton F., New York, N. Y. Variable racing game apparatus. 2,650,828, Sept. 1.

Burr, Richard: *See*—
Colin, Jules, Burr, and Gafanesch.

Busemann, Felix, Greenford, assignor, by mesne assignments, to E. R. A. Patents Limited, Leatherhead, England. Direct current electric power transmission system. 2,651,016, Sept. 1.

Busemann, Felix, Greenford, assignor, by mesne assignments, to E. R. A. Patents Limited, Leatherhead, England. Protective apparatus for direct current transmission lines. 2,651,017, Sept. 1.

Cain, Basil S., and J. K. Erner, Erie, Pa., assignors to General Electric Company. Rail vehicle truck. 2,650,549, Sept. 1.

Callahan, Mara L., Inglewood, Calif. Device for measuring horizontal and vertical angles. 2,650,431, Sept. 1.

Callahan, Thomas P.: *See*—
Bering, Horace L., and Callahan.

Camincar, Merris: *See*—
Cohen, Abraham J., Levine, Camincar, and Price.

Campbell, Louis T., Pittsburgh, Pa., assignor to United States Steel Corporation. Continuous pickling apparatus. 2,650,599, Sept. 1.

Capa, Arthur W., Rochester, N. Y., assignor to Photostat Corporation. Photographic print treating apparatus. 2,650,527, Sept. 1.

Carlisle, Oswald S., Glenside, Pa., assignor, by mesne assignments, to The Jacobs Bros. Co. Inc., New York, N. Y. Photoelectric batching weigher. 2,650,790, Sept. 1.

Carlson, Arthur W., Kankakee, Ill., assignor to A. O. Smith Corporation, Milwaukee, Wis. Water heater flue construction. 2,650,575, Sept. 1.

Carpenter, Oliver W., Lakewood, Colo. Service tray for automobile instrument panels. 2,650,870, Sept. 1.

Carr, Clifford H., Kansas City, Mo. Improvement in hollow cone spray nozzle. 2,650,860, Sept. 1.

Carter, Nelson W.: *See*—
Pope, John H., and Carter.

Case, Everett N., Homewood, Ill., assignor to Sinclair Refining Company, New York, N. Y. Removing asphaltenes from crude oil. 2,650,908, Sept. 1.

Cassman Manufacturing Co., assignee: *See*—
Coopman, Wilfred M.

Castner, Frank G., Bridgeport, Ohio. Coin novelty meter. 2,650,698, Sept. 1.

Caterpillar Tractor Co., assignee: *See*—
Bridwell, John W., Coker, and Williamson.
Matheny, Clelia A., and Myers.

Celanese Corporation of America, assignee: *See*—
Pope, John H., and Carter.

Centre National de la Recherche Scientifique, assignee: *See*—
Nisery, André R. M.

Cerny, Walter J.: *See*—
Northrop, John K., and Cerny.

Chambon, Jean L., assignor to Société à Responsabilité Limitée dite: Société d'Etudes de Machines Speciales, Paris, France. Device for intermittently stopping the motion of a strip of material. 2,650,823, Sept. 1.

Champion Paper and Fibre Company, The, assignee: *See*—
Randall, Herbert T.

Chapman, Robert R., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electronic amplifier with double frequency discriminator. 2,651,014, Sept. 1.

Chatham Electronics Corporation, assignee: *See*—
Watrous, Ward W., Jr.

Cheney, Charles W., Hockley, Birmingham, England. Band clip having closing worm gear. 2,650,405, Sept. 1.

Cheney, Charles W., Hockley, Birmingham, England. Worm geared band clip. 2,650,406, Sept. 1.

Cheney, Charles W., Hockley, Birmingham, England. Worm geared band clip. 2,650,407, Sept. 1.

Cheney, Keith E. and M. E., Fruitland, Idaho. Hydraulic hoist for ladders. 2,650,750, Sept. 1.

Cheney, Mertie E.: *See*—
Cheney, Keith E. and M. E.

Chill, Charles W.: *See*—
Davis, John V., Chill, and Pianowski.

Chilo, Paul, Chicago, Ill. Lamp harp extension. 2,650,981, Sept. 1.

Chilo, Paul, Chicago, Ill. Harp swivel. 2,650,982, Sept. 1.

Cho, Chi L., assignor to Electro-Watt Electrical and Industrial Management Co., Ltd., Zurich, Switzerland. Tens-transfer mechanism. 2,650,765, Sept. 1.

Choate, Christian E., assignor of one-half to C. May, Los Angeles, Calif. Attachment for chairs and other structures. 2,650,651, Sept. 1.

Choate, Christian E., assignor of one-half to C. May, Los Angeles, Calif. Chair with rear shelf. 2,650,658, Sept. 1.

Church, Stanley M., Los Angeles, Calif. Reactively actuated acousto-electric transducer. 2,650,954, Sept. 1.

Ciba Pharmaceutical Products, Inc., assignee: *See*—
Miescher, Karl, Wettstein, and Heer.

Cichelli, Mario T., Wilmington, Del., assignor to Gulf Research & Development Company, Pittsburgh, Pa. Molecular filtration. 2,650,670, Sept. 1.

Clark Controller Company, The, assignee: *See*—
Gauvreau, Alphonse P.

Clark, James R., Jr., and R. W. James, Pasadena, assignors to Loyola University Foundation, Los Angeles, Calif. Valve. 2,650,793, Sept. 1.

Clarke, Edward L., Scranton, Pa. Combination storm window and screen. 2,650,661, Sept. 1.

Clauss, Robert W., New York, N. Y. Pinticket manufacturing and attaching machine. 2,650,538, Sept. 1.

Clemson Agricultural College of South Carolina, The, assignee: *See*—
Van Blaricom, Lester Oscar, and Martin.

Clintsman, De Witt C., Watertown, N. Y. Differential resistor. 2,650,507, Sept. 1.

Clowes, William, & Sons Limited, assignee: *See*—
Croscher, Henry G.

Clyne, Joseph, Bronx, N. Y., assignor, by mesne assignments, to Flexsteev, Inc. Underarm sleeve construction. 2,650,994, Sept. 1.

Coca-Cola Bottling Works Co., The, assignee: *See*—
Mashburn, William O., Jr., Broetzler, and Kinnaird.

Cohen, Abraham J., S. Levine, and M. Camincar, New Haven, and S. S. Price, North Haven, Conn. Carbonator cooler. 2,650,806, Sept. 1.

Cohen, Arthur M., New York, N. Y. Finger type circuit regulator and contact assembly therefor. 2,650,987, Sept. 1.

Coker, Morton M.: *See*—
Bridwell, John W., Coker, and Williamson.

Colin, Jules, R. Burr, and A. Gafanesch, assignors to Mines Domaniales de Potasse d'Alsace, Mulhouse, Haut Rhin, France. Method and apparatus for separating solid particles. 2,650,708, Sept. 1.

Collins Radio Company, assignee: *See*—
Hime, Norman E.
McPhee, Kenneth H., and Soderstrom.
Wallace, Frank C.

Collito, Michael B., executor: *See*—
Collito, Thomas A.

Collito, Thomas A., deceased, Newark, N. J., M. B. Collito, executor. Heat exchanger. 2,650,901, Sept. 1.

Combustion Engineering, Inc., assignee: *See*—
True, Charles H.

Commerce, United States of America as represented by the Secretary of, assignee: *See*—
Martin, William L., Slutz, and Senf.

Commonwealth Engineering Company of Ohio, The, assignee: *See*—
Fink, Albert O.
Miller, Francis B.

Conmar Products Corporation, assignee: *See*—
Kuzmick, Joseph N.

Conradty, C., assignee: *See*—
Leuchs, Friedrich, and Zöllner.

Container Corporation of America, assignee: *See*—
Shanahan, Curtis M.

Continental Supply Company, The, assignee: *See*—
Slonneger, John C.

Cook, Edward G.: *See*—
Van Valkenburg, Howard E., and Cook.

Cook Electric Company, assignee: *See*—
Flubacher, Charles H.

Coombes, Joseph H., Jenkintown, Pa., and W. Mann, Grosse Pointe, Mich., assignors to The Budd Company, Philadelphia, Pa. Brake mechanism with removable shoes. 2,650,680, Sept. 1.

Cooper, George T., Clifton, assignor to The M. W. Kellogg Company, Jersey City, N. J. Separation of gaseous mixtures. 2,650,481, Sept. 1.

Cooper, Harold E., Tulsa, Okla. Paper jogger. 2,650,825, Sept. 1.

Coopman, Wilfred M., Los Angeles, assignor to Cassman Manufacturing Co., Lomita, Calif. Shaft sealing device. 2,650,842, Sept. 1.

Copley, Carl E., Colma, Calif. Saw sharpening device. 2,650,506, Sept. 1.

Cornelius, Richard T., Minneapolis, Minn. Diaphragm pump. 2,650,545, Sept. 1.

Coro, Inc., assignee: *See*—
Banga, Ralph C.

Corona Clipper Company, assignee: *See*—
Phillips, Dwight M.

Coturno, S. A., assignee: *See*—
Mediano Capdevila, Gonzalo.

Courson, Clarence D., and W. C. Worthington, Minn. Reel type mowing machine. 2,650,468, Sept. 1.

Courson, Warren C.: *See*—
Courson, Clarence D., and W. C.

Coval, Edwin P., Indianapolis, Ind. Hand truck. 2,650,824, Sept. 1.

Cover, Raymond P., Springdale, Conn. Spring arc support. 2,650,817, Sept. 1.

Coward, Olgar G., assignor to Alumalath Corporation of Texas, Beaumont, Tex. Screen structure. 2,650,866, Sept. 1.

Cox, James V.: *See*—
Coyle, Elliott R., and Cox.

Coyle, Elliott R., Mentor, Ohio, and J. V. Cox, Rhinebeck, N. Y., said Cox assignor to said Coyle. Display card holder. 2,650,444, Sept. 1.

Crandell, Robert B.: *See*—
Shepard, Billy R., and Crandell.

Crawford, John, assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Pile fabric and manufacture. 2,650,621, Sept. 1.

Crockett, Cyril C., Glendale, Calif. Igniter and making same. 2,650,488, Sept. 1.

Crockett, Samuel J., Philippi, W. Va. Dowel rod anchor. 2,650,476, Sept. 1.

Crompton & Knowles Loom Works, assignee: *See*—
Johnson, Glenn D.
Waterhouse, Lewis O.

Cronshey, Raymond W.: *See*—
Ehrbar, Edward J., and Cronshey.

Crooks, Earl G., Binghamton, assignor to Lestershire Spool and Manufacturing Company, Johnson City, N. Y. Driver for spools or bobbins. 2,650,770, Sept. 1.

Croucher, Henry G., assignor to William Clowes & Sons Limited, Beccles, England. Means for controlling character width or spacing in apparatus for composing or reproducing typographical and like matter. 2,650,697, Sept. 1.

Cudini, Roger G., Birmingham, assignor to Moynahan Bronze Company, Detroit, Mich. Berth structure. 2,650,370, Sept. 1.

Cumming, George T., assignor to William Volker and Company of Missouri, Inc., Kansas City, Mo. Machine for producing Venetian blind slats. 2,650,640, Sept. 1.

Curry, Oliver B., Wichita, Kans. Popcorn service. 2,650,736, Sept. 1.

Curtiss-Wright Corporation, assignee: *See*—
Mergen, Joseph M.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. Basic esters of phenothiazine-10-carboxylic acid and salts thereof. 2,650,919, Sept. 1.

Cutler-Hammer, Inc., assignee: *See*—
Welch, Jerome B.

Dalley, Charles J., Maplewood, N. J., assignor to W. Langbein, E. Langbein and C. Langbein, a partnership doing business as Wm. Langbein & Bros., New York, N. Y. Fastening device. 2,650,845, Sept. 1.

Dalpiaz, Albert J., Dennison, Ohio. Adjustable clamp. 2,650,404, Sept. 1.

Danielson, Vernon S., assignor to W. H. Miner, Inc., Chicago, Ill. Shock absorbing mechanism for railway draft riggings. 2,650,720, Sept. 1.

Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorbing mechanism for railway cars. 2,650,719, Sept. 1.

Daub, Rudolph, West Caldwell, N. J. Air cooling for internal-combustion engines. 2,650,578, Sept. 1.

Davis, John V., assignor to The Udylite Corporation, Detroit, Mich. Pusher type automatic plating apparatus. 2,650,900, Sept. 1.

Davis, John V., C. W. Chill, and L. J. Pianowski, assignors to The Udylite Corporation, Detroit, Mich. Oscillating rail for work-immersion machines. 2,650,904, Sept. 1.

Davis, Robert L.: *See*—
Neahr, William R., and Davis.

Davis, Roy C.: *See*—
Taylor, Raymond G., Jr., McElroy, and Davis.

Dawe, Albert J., assignor to Allen-Bradley Company, Milwaukee, Wis. Electrical switch. 2,650,971, Sept. 1.

D'Anno, Errol P., New York, N. Y. Means for securing awning fabric to awning rollers. 2,650,662, Sept. 1.

Dean, Albert G., Narberth, assignor to The Budd Company, Philadelphia, Pa. Engine mounting means, especially means for mounting engines beneath railway passenger cars. 2,650,548, Sept. 1.

de Anguera, Eva, assignee: *See*—
de Anguera, Philip.

de Anguera, Philip, assignor to Eva de Anguera, Cincinnati, Ohio. Structural wood unit. 2,650,395, Sept. 1.

Debs, Victor, Ridgewood, N. Y. Curve scriber. 2,650,429, Sept. 1.

Deckel, Friedrich W., assignee: *See*—
Gebele, Kurt.
Zwick, Kurt.

Dechel, Hans, assignee: *See*—
Gebele, Kurt.
Zwick, Kurt.

De Cola, Rinaldo E., Park Ridge, assignor to Haseltine Research, Inc., Chicago, Ill. Periodic-wave generator. 2,651,002, Sept. 1.

De Laval Separator Company, The, assignee: *See*—
Dron, Douglas W.; and Lindsey.

De Michel, Frank, Chicago, Ill. Buffing pad cushion having passages for circulating cooling air through the cushion to the buffing pad. 2,650,385, Sept. 1.

De Negre, Louis, assignor to The New Haven Clock and Watch Company, New Haven, Conn. Balance starter mechanism. 2,650,468, Sept. 1.

De Nooijer, Christiaan N. J.: *See*—
Koome, Jacob, and De Nooijer.

Derby Sealers, Incorporated, assignee: *See*—
Krueger, Alfred P.

Dermond, Lawrence C., Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich. Throttle controlled starter switch. 2,650,988, Sept. 1.

Detrick, Fred H.: *See*—
Betsch, Carl L., and Detrick

Deutsche Gold-und Silber-Scheideanstalt vormals Roessler, assignee: *See*—
Köhler, Franz.

Devaux, Raymond H., Tangier, Morocco. Spark plug. 2,650,583, Sept. 1.

Dirksen, Ole A., Spencer, Iowa. Grease gun. 2,650,744, Sept. 1.

Distillers Company Limited, The, assignee: *See*—
Gasson, Edward J., Millidge, and Webster.
Hart, Kenneth C.
Hutchinson, Henry M.
Young, Donald P.

Diversey Corporation, The, assignee: *See*—
Dvorkovitz, Vladimir, and Swihart.

Donaldson, John M., Birmingham, Ala. Means for supporting metal clips. 2,650,978, Sept. 1.

Donovan, Cornelius J., New York, N. Y. Coin holder. 2,650,699, Sept. 1.

Dorand, René, Versailles, and P. Gabriet, Boulogne-Billancourt, assignors, by mesne assignments to René Dorand, Versailles, France. Rotary-wing aircraft with jet-driven rotor. 2,650,666, Sept. 1.

Dornbush, Edward, Miami Beach, Fla. Baking device. 2,650,553, Sept. 1.

Dorr Company, The, assignee: *See*—
Scott, Charles H.

Dorst, Stanley O., assignor to Sprague Electric Company, North Adams, Mass. Electrically insulated conductor and production thereof. 2,650,975, Sept. 1.

Doyle, Mary B., Omaha, Nebr. Automobile time-clock starting mechanism. 2,650,987, Sept. 1.

Draper Corporation, assignee: *See*—
Berry, Edward J.

Dresser Industries, Inc., assignee: *See*—
Newell, Frederick T.
Risley, Roger E.

Drew, Harry G. R., Thornton Heath, England. Artificial femoral head having an X-ray marker. 2,650,588, Sept. 1.

Dron, Douglas W., Poughkeepsie, N. Y., and F. A. Lindsey, Jr., Fredericksburg, Va., assignors to The De Laval Separator Company, New York, N. Y. Removing metallic contaminants from hydrogenated oils. 2,650,931, Sept. 1.

Dubbs, Carbon C., Orange, Calif. Process and apparatus for molding concrete products. 2,650,409, Sept. 1.

Dubbs, Carbon C., Orange, Calif. Molding concrete products. 2,650,412, Sept. 1.

Dunham, Le Roy S., East Orange, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Primary battery. 2,650,947, Sept. 1.

Du Pont, E. I., de Nemours and Company, assignee: *See*—
Boyer, Mahlon B.
Boyer, Mahlon B., and Grumbine.
Stillmar, Frederic B.

Dupree, William H., Jr., Pine Bluff, Ark. Signal lamp unit for automobiles. 2,650,028, Sept. 1.

Durkin, Patrick, Chicago, Ill. Ground brake. 2,650,679, Sept. 1.

Dvorkovitz, Vladimir, Chicago, and J. R. Swihart, Chicago Heights, Ill., assignors to The Diversey Corporation. Etching aluminum and aluminum base alloys. 2,650,875, Sept. 1.

Dynamatic Corporation, assignee: *See*—
Jaeschke, Ralph L.

E. R. A. Patents Limited, assignee: *See*—
Bussmann, Felix.

Easy Washing Machine Corporation, assignee: *See*—
Glassey, Philip P.

Echels, August E., Jr.: *See*—
Echels John F., and A. E.

Echels, John F., and A. E., Jr., Baltimore, Md. Extruder head. 2,650,551, Sept. 1.

Edison, Thomas A., Incorporated, assignee: *See*—
Dunham, Le Roy S.
Kobler, Richard.

Edmunds, Edward, Jr.: *See*—
Martin, Tom E., and Edmunds.

Edwards, Martha F., executrix: *See*—
Edwards, Walter S.

Edwards, Walter S., deceased, New Haven, Conn., M. F. Edwards, executrix of said W. S. Edwards. Swinging door control. 2,650,286, Sept. 1.

Eger, Ernst, Los Angeles, Calif., assignor to United States Rubber Company, New York, N. Y. Resilient tire. 2,650,633, Sept. 1.

Eggert, Walter B., Jr.: *See*—
Watter, Michael, and Eggert.

Ehrbar, Edward J., and E. W. Cronshey, assignors to The Radiart Corporation, Cleveland, Ohio. Antenna. 2,650,983, Sept. 1.

Einstein, Howard C., deceased, Detroit, Mich., L. I. Franklin, executor of said H. C. Einstein. Hydraulically operated mechanism for raising dump truck bodies. 2,650,359, Sept. 1.

Electric & Musical Industries Limited, assignee: *See*—
Holman, Herbert E.

Electro-Hydraulics Limited, assignee: *See*—
Mackie, Harry.

Electro-Watt Electrical and Industrial Management Co., Ltd., assignee: *See*—
Cho, Chi Liang.

Elliott, Harold V., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Electrical connection for distributors. 2,651,025, Sept. 1.

Elliott, John H., assignor to Hercules Powder Company, Wilmington, Del. Textile material sized with zirconium salts of water-soluble carboxyalkyl cellulose. 2,650,887, Sept. 1.

Ellis-Foster Company, assignee: *See*—
Rust, John E., and Spialter.

Ely, Otis G.: *See*—
Smith, Marsden C., and Ely.

Embart Manufacturing Company, assignee: *See*—
Eldeout, Arthur E., Holstebroe, and Johnson.

Engel, Willem F., and H. Hoog, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif. Preparation of impregnated type tungsten and molybdenum catalysts. 2,650,906, Sept. 1.

English, James F., Jr., Lakewood, and A. J. Hernfeck, Lyndhurst, Ohio, assignors to Bailey Meter Company. Magnetic fluid clutch. 2,650,684, Sept. 1.

Epperson, Robert T., Ponca City, Okla. Butter dish with pat slicing means. 2,650,428, Sept. 1.

Eppler, Andrew, Jr., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for applying pressure to shoe bottoms. 2,650,380, Sept. 1.

Erickson, Arvid M., San Jose, Calif., assignor, by mesne assignments, to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Food product. 2,650,880, Sept. 1.

Ericsson Telephones Limited, assignee: *See*—
Acton, John R.

Erie Manufacturing Co., Inc., assignee: *See*—
Poncher, Harold, and J. R.

Ertell, Carl G.: *See*—
Johnson, Walter J., and Ertell.

Erzer, John K.: *See*—
Cain, Basil S., and Erzer.

Etablissements Merlin & Gerin, Societe Anonyme, assignee: *See*—
Vilbaud, Albert.

Evans, Randolph, Bronxville, N. Y. Bathroom construction. 2,650,368, Sept. 1.

Even-Pul Foundations, Inc., assignee: *See*—
Lo Cascio, Jack J.

Falk, Gerhard E. A., Hamburg, Germany. Photographic method for making geographic maps. 2,650,517, Sept. 1.

Fanning, William I., Storm Lake, Iowa. Retarding means for roll paper dispensers. 2,650,773, Sept. 1.

Farré, Joseph M., Jr., Brooklyn, N. Y. Centrifugal ball-throwing machine. 2,650,565, Sept. 1.

Faulds, John, Oak Park, assignor to Faulds Oven and Equipment Co., Chicago, Ill. Bake oven. 2,650,554, Sept. 1.

Faulds Oven and Equipment Co., assignee: *See*—
Faulds, John.

Favre, Marc, & Co. S. A., assignee: *See*—
Favre, Robert.

Favre, Robert, Evilard-sur-Bienne, Switzerland, assignor to Marc Favre & Co. S. A. Calendar timepiece. 2,650,467, Sept. 1.

Fehring, Wendell B., assignor to Boeing Airplane Company, Seattle, Wash. Landing unit for aircraft. 2,650,782, Sept. 1.

Felliden, Geoffrey B. R., Lincoln, and R. E. Wigz, Ealing Common, London, assignors to Ruston & Hornsby Limited, Lincoln, England. Speed governor. 2,650,815, Sept. 1.

Findlater, Stevenson, Pittsburgh, Pa., assignor to United States Steel Corporation. Kickout device. 2,650,694, Sept. 1.

Findlay, James A., near Bellevue, assignor to Boeing Airplane Company, Seattle, Wash. Wire holder. 2,650,948, Sept. 1.

Fine, Richard De M., III, Merchantville, N. J., assignor to McNeil Laboratories, Incorporated, Philadelphia, Pa. Riboflavin-monoborate and preparation thereof. 2,650,894, Sept. 1.

Fink, Albert O., assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Dynamic pyrolytic plating apparatus. 2,650,564, Sept. 1.

Fink, George A., Dayton, Ohio. Photoelectric feedback operated amplifier. 2,651,019, Sept. 1.

Fleck, John F.: *See*—
Michaels, Hunter, and Fleck.

Fleming, William, Los Angeles, Calif. Water driven fountain brush. 2,650,381, Sept. 1.

Flexsteev, Inc., assignee: *See*—
Clyne, Joseph.

Floyd, Earle N., Mississippi City, Miss. Mortar applicator having a flexible dispensing tube. 2,650,743, Sept. 1.

Flubacker, Charles H., assignor to Cook Electric Company, Chicago, Ill. Diaphragm for pressure regulators. 2,650,618, Sept. 1.

Folt, Vernon L.: *See*—
Gilbert, Harry, Miller, and Folt.

Ford Meter Box Company, Inc., The, assignee: *See*—
Smith, Marsden C., and Ely.

Fordyce, Reid G., and M. Baer, Springfield, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo. Modified drilling fluids. 2,650,905, Sept. 1.

Fore, John D., San Angelo, Tex. Automatic cutoff valve. 2,650,863, Sept. 1.

Forkner, John H., Fresno, Calif. Manufacture of a compounded fruit product. 2,650,881, Sept. 1.

Forse, Ernest H.: *See*—
Brown, Ellis M., and Forse.

Forse, Fritz V., and G. M. Neff, assignors to John Oster Manufacturing Company, Racine, Wis. End bell assembly for dynamoelectric machines. 2,650,902, Sept. 1.

Fortune, Henry J., and R. W. Mortimer, assignors to The Gerrard Engineering & Manufacturing Company Limited, Swindon, England. Record changing mechanism for phonographs. 2,650,831, Sept. 1.

Foss, Donald D., Van Nuys, Calif. Top guide for sliding panel construction. 2,650,287, Sept. 1.

Fowler, Alexander, assignor to Hercules Electric & Mfg. Co., Inc., Brooklyn, N. Y. Feeding of magnetic sheet material. 2,650,824, Sept. 1.

Franklin, Leo L., executor: *See*—
Einstein, Howard C.

Frantz, Wilbert P., Glen Head, assignor to The Sperry Corporation, Great Neck, N. Y. Automatic amplitude balancing circuits. 2,651,033, Sept. 1.

Freeport Sulphur Company, assignee: *See*—
Pottberg, Rolfe.

Frides Calculating Machine Co., Inc., assignee: *See*—
Machado, Anthony B.

Fritzberg, Lawrence H., assignor to Aeroflex Corporation, Syracuse, N. Y. Heat exchanger. 2,650,799, Sept. 1.

Fry, Cosby E., Summersville, W. Va. Coal loading machine. 2,650,001, Sept. 1.

Fuchs, Alfred R., Kansas City, Mo. Sealing mechanism for wrapping machines. 2,650,643, Sept. 1.

Furnehill Laboratories Limited, assignee: *See*—
Milsom, Frederick R.

Gabriet, Paul: *See*—
Dorand, René, and Gabriet.

Gafanesch, André: *See*—
Colin, Jules, Burr, and Gafanesch.

Gaiser, Romey A., and J. H. Boicey, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Electrically conducting laminated glass. 2,650,976, Sept. 1.

Gamrath, Harry R., St. Louis, and W. E. Woesner, Webster Groves, assignors to Monsanto Chemical Company, St. Louis, Mo. Monoalkyl dinaphthyl phosphate esters. 2,650,935, Sept. 1.

Garbe, Raymond, Kankakee, Ill. Strike plate. 2,650,846, Sept. 1.

Gardner, Thomas E., Raleigh, N. C. Line fault signal device. 2,651,030, Sept. 1.

Garrison, John W., Arlington, and A. B. Lovett, East Orange, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Protection of molybdenum against oxidation. 2,650,903, Sept. 1.

Gasson, Edward J., Banstead, A. F. Millidge, Coulsdon, and W. Webster, Epsom, England, assignors to The Distillers Company Limited, Edinburgh, Scotland. Manufacture of epoxides. 2,650,927, Sept. 1.

Gauvreau, Alphonse P., Cleveland Heights, assignor to The Clark Controller Company, Cleveland, Ohio. Arc-less controlling switch. 2,650,970, Sept. 1.

Gebele, Kurt, Munich, assignor to H. Deckel, Munich-Solln, and F. W. Deckel, Post Tutzing, Germany. Photographic shutter with flash synchroniser. 2,650,526, Sept. 1.

Gedris, Stanley J., Grand Rapids, Mich. Reciprocating conveyer. 2,650,696, Sept. 1.

Gelgy, J. R., A. G., assignee: *See*—
Schetty, Guido.

Geiling, Wayne W., Springfield, Ill. Row marker. 2,650,533, Sept. 1.

Gelber, Philip A.: *See*—
Hartley, Bowen, Jr., and Gelber.

Gemmer Manufacturing Company, assignee: *See*—
Hammond, Charles F.

General American Transportation Corporation, assignee: *See*—
Aller, Edmund R., Gleason, and Matolin.

General Aniline & Film Corporation, assignee: *See*—
Genta, Guido R.

General Electric Company, assignee: *See*—
Bahn, John J.
Brickett, Sherman P.
Cain, Basil S., and Erzer.
Howard, Alan, Buckland, and Rice.
Landberg, John E., and Swanson.
Shepard, Billy R., and Crandell.
Spooner, Laurence W.
Wendt, Harry C.

General Mills, Inc., assignee: *See*—
Moe, Owen A.
Van Guilder, Walter.

General Motors Corporation, assignee: *See*—
Bales, Max G.
Dermond, Lawrence C.
Elliott, Harold V.
Nemmer, Leo B., and O'Brien.
Schneider, Paul L.
Short, Brooks H., and Lautzenhiser.

Genta, Guido R., Hillside, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Preparation of pure bromo-e-amino anthraquinones. 2,650,928, Sept. 1.

Gerlach, Karl, Moers, Germany. Mine supporting structure. 2,650,475, Sept. 1.

Gero, Alexander, Media, Pa. Separating optical isomers. 2,650,938, Sept. 1.

Gerrard Engineering & Manufacturing Company Limited, The, assignee: *See*—
Fortune, Henry J., and Mortimer.

Gessler, Ben, Sunnyside, N. Y. Micrometer height gauge. 2,650,436, Sept. 1.

Gethmer, Lee, assignor to Lee Industries, Inc., Chicago, Ill. Folding chair. 2,650,653, Sept. 1.

Geyer, Wallace T., Berwick, R. H. Learn, Bloomsburg, and L. W. Sult, Berwick, Pa., assignors to American Car and Foundry Company, New York, N. Y. Knock-down shipping container. 2,650,737, Sept. 1.

Gilbert, Harry, Cuyahoga Falls, F. F. Miller, and V. L. Folt, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Copolymers of vinylidene cyanide with alkenyl esters of monobasic acids. 2,650,911, Sept. 1.

Gilbert, Norman G., trustee, assignee: *See*—
Newhouse, George A.

Gilcrest, Laurence B., Irondale, Ohio. Water cleaning apparatus. 2,650,711, Sept. 1.

Gilmore, Forrest E. Bartlesville, Okla., assignor to Phillips Petroleum Company. Low-temperature absorption refrigeration. 2,650,480, Sept. 1.

Girard, Marie P., Pomona, Calif. Lipstick case with mirror thereon. 2,650,597, Sept. 1.

Girvin, Murray D.: *See*—
Peebles, David D., and Girvin.

Gisholt Machine Company, assignee: *See*—
Godfriaux, Louis E.
Weaver, Ira A.

Glassey, Philip P. Casenovia, assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Door construction for tumbler type washing machines. 2,650,490, Sept. 1.

Gleason, John M.: *See*—
Aller, Edmund R., Gleason, and Matolin.

Globe Company, The, assignee: *See*—
Bilek, Frank J.

Glynn, Edwin A., assignor to Super Mold Corporation of California, Lodi, Calif. Tire gauging device. 2,650,437, Sept. 1.

Godfriaux, Louis E., assignor to Gisholt Machine Company, Madison, Wis. Turn milling machine. 2,650,522, Sept. 1.

Goers, Edwin C., Wausau, assignor to Marathon Corporation, Rothschild, Wis. Carton. 2,650,751, Sept. 1.

Goldwasser, Seymore, Chestnut Hill, assignor to Lever Brothers Company, Cambridge, Mass. Method and apparatus utilizing compressional wave energy in the upper sonic and supersonic range for washing textiles. 2,650,872, Sept. 1.

Gonsett, Faust R., executor: *See*—
Gonsett, Robert R.

Gonsett, Robert R., deceased, North Hollywood, Calif., by F. R. Gonsett, executor, Burbank, Calif. Passenger protecting fender attachment for vehicle instrument panels. 2,650,835, Sept. 1.

Goodrich, B. F., Company, The, assignee: *See*—
Bears, Warren L.
Gilbert, Harry, Miller, and Folt.
Howes, Leonard R.
Stewart, William D.
Whitman, Hyman L.

Goodwyn, George G., Dallas, Tex. Automobile storage apparatus. 2,650,728, Sept. 1.

Gorton, George, Machine Co., assignee: *See*—
Steinbrecker, Freddy.

Graham, William R., Jr., Wilmette, Ill., G. O. Kohler, Mission, Kans., and R. D. Hoover, Kansas City, Mo., assignors to American Dairies, Incorporated, Kansas City, Mo., and The Quaker Oats Company, Chicago, Ill. Iodinating proteins and their derivatives. 2,650,914, Sept. 1.

Granlund, Håkon M., Oslo, Norway. Chair. 2,650,645, Sept. 1.

Grant, Gordon A.: *See*—
Beall, Desmond, Grant, and Legault.

Grathwohl, Herbert F., Bronx, N. Y. Fishing lure. 2,650,450, Sept. 1.

Gravene, John C., South Euclid, assignor of one-half to J. B. Stern, East Cleveland, Ohio. Automobile signal device. 2,650,963, Sept. 1.

Graver Tank & Mfg. Co., Inc., assignee: *See*—
Ulm, Reign C.

Gray, John B., III, Essex, and S. M. Martin, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Strand supply apparatus. 2,650,772, Sept. 1.

Green, Carl J., Oak Ridge, Tenn. Carburetor. 2,650,582, Sept. 1.

Greene, Haskell M., Whittier, Calif. Cleaning of well perforations. 2,650,539, Sept. 1.

Greenwald, Lewis, deceased, New York, N. Y., by S. Greenwald, administratrix, New York, N. Y., assignor to the United States of America as represented by the Secretary of the Army. Magnetron. 2,651,003, Sept. 1.

Greenwald, Sylvia, administratrix: *See*—
Greenwald, Lewis.

Grigsby-Allison Company, Inc., assignee: *See*—
Allison, Kenneth C.

Grothe, Isabel N., and B. J. Smith, Westport, Conn. Hand covering for use in association with handlebars. 2,650,361, Sept. 1.

Grumbine, Arthur W.: *See*—
Boyer, Mahlon R., and Grumbine.

Guilberson Corporation, The, assignee: *See*—
Taylor, Raymond G., Jr., McElroy, and Davis.

Gulf Research & Development Company, assignee: *See*—
Cichelli, Mario T.

Gunter, Lee, Jr.: *See*—
Bauer, Benjamin B., and Gunter.

Gunter, Lee, Jr., Mount Prospect, assignor to Shure Brothers, Incorporated, Chicago, Ill. Assembling phonograph translating devices. 2,650,953, Sept. 1.

H. M. H. Co., The, assignee: *See*—
Randall, Horace.

Hagen, Leif R., assignor to Norsk Staiull A/S, Oslo, Norway. Steel wool packet. 2,650,703, Sept. 1.

Haister, Aaron, New York, N. Y. Wrist watch stand. 2,650,785, Sept. 1.

Hamilton, Joseph R., Baker, Oreg. Pylon. 2,650,827, Sept. 1.

Hammerstein, Arthur, Roselle, Ill. Holder for container of pulverant material with means to puncture said container and dispense said material. 2,650,740, Sept. 1.

Hammond, Charles F., Grosse Pointe, assignor to Gemmer Manufacturing Company, Detroit, Mich. Manual and hydraulic power actuated steering gear. 2,650,669, Sept. 1.

Hampton, Ronald, Wightwick, near Wolverhampton, assignor to The Union Steel & Manufacturing Company Limited, Wolverhampton, Staffordshire, England. Machine for straightening and polishing metal round section bars or tubes. 2,650,639, Sept. 1.

Hardy, Elizabeth M.: *See*—
Scalera, Mario, and Hardy.

Harkins, James J., Wheeling, W. Va. Rest for cigarettes, cigars, and pipes. 2,650,595, Sept. 1.

Harrison, W. A., assignee: *See*—
Sammer, Rudolph.

Hart, Kenneth C., Redhill, England, assignor to The Distillers Company Limited, Edinburgh, Scotland. Wire clamp applying device. 2,650,510, Sept. 1.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Brandt, Adrianus.

Hartquist, Donald E., Kankakee, Ill., assignor to A. O. Smith Corporation, Milwaukee, Wis. Combination fork and finger lift attachment. 2,650,732, Sept. 1.

Hartung, Hans, Sr., Glens Falls, N. Y. Warp knitting machine. 2,650,486, Sept. 1.

Harvey, Herbert, assignor, by mesne assignments, to Robot Laundry Machinery Corporation of California, Los Angeles, Calif. Power-driven washing machine governed by a master control. 2,650,489, Sept. 1.

Haseltine, Stacy B., La Grange, assignor to W. H. Miner, Inc., Chicago, Ill. Throwout crank arm for sliding doors. 2,650,392, Sept. 1.

Hauser, Frederick L., Pawtucket, R. I., assignor to Premier Thread Company. Cooling device for sewing machine needles. 2,650,557, Sept. 1.

Hawaiian Pineapple Company, Limited, assignee: *See*—
Erickson, Arvid M.

Haward, Robert N., and E. T. Borrows, Manchester, assignors to Petrocarbon Limited, London, England. Stabilization of polymerizable aromatic compounds. 2,650,899, Sept. 1.

Haynes, Charles L.: *See*—
Wansink, Leo P., and Haynes.

Hays, James B., Jr., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Fault detector. 2,651,021, Sept. 1.

Haseltine Research, Inc., assignee: *See*—
De Cola, Rinaldo E.

Heath, Theodore H., assignor of forty-nine per cent to J. Pentony, Philadelphia, Pa. Push button automobile engine ignition and starter system. 2,650,980, Sept. 1.

Heer, Jules: *See*—
Miescher, Karl, Wettstein, and Heer.

Heiland Research Corporation, assignee: *See*—
Hulstein, Neal S.

Heilman, Rose, Baxter Springs, Kans. Recipe file. 2,650,504, Sept. 1.

Heising, Raymond A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Amplifier utilizing deflection of an electron beam. 2,650,956, Sept. 1.

Helmond, William F., Clinton, Conn., assignor to Underwood Corporation, New York, N. Y. Stop positioning mechanism for typewriters. 2,650,687, Sept. 1.

Henderson, Robert M., Springfield, Vt., assignor to Worthington Corporation, Harrison, N. J. Antifreeze valve assembly. 2,650,611, Sept. 1.

Henry, Robert L.: *See*—
Wallenmeyer, John C., McDonald, and Henry.

Hepperle, Erwin: *See*—
Lippert, Hanns, and Hepperle.

Herbert, William S., assignor to Ray-O-Vac Company, Madison, Wis. Primary dry cell. 2,650,945, Sept. 1.

Herbst, John A., Pines Lake, assignor to Bogue Electric Manufacturing Co., Paterson, N. J. Hydraulic valve. 2,650,609, Sept. 1.

Hercules Electric & Mfg. Co., Inc., assignee: *See*—
Fowler, Alexander.

Hercules Powder Company, assignee: *See*—
Elliott, John H.

Herold, Walter F., Easton, and H. W. Parnett, Shelton, assignors to The Bassick Company, Bridgeport, Conn. Resiliently mounted tiltable seat and back rest. 2,650,646, Sept. 1.

Hewett, Colin L., Lancaster Place, London, England. Isolation of cholesterol from wool wax alcohols. 2,650,929, Sept. 1.

Hewlett-Packard Company, assignee: *See*—
Kingman, Rufus M.

Hiatt, Herbert D., Indianapolis, G. P. McCord, Oklandon, and L. C. Peterson, Indianapolis, Ind., assignors to United States Rubber Company, New York, N. Y. Rendering a pneumatic tire inner tube substantially static-free. 2,650,641, Sept. 1.

Hickman, Albert F., assignor to Hickman Industries, Inc., Eden, N. Y. Scoop for rotary snowplows. 2,650,439, Sept. 1.

Hickman, Albert F., Eden, N. Y. Rotary fluid motor or pump. 2,650,573, Sept. 1.

Hickman Industries, Inc., assignee: *See*—
Hickman, Albert F.

Higgins, William F., Salford, assignor to Magnesium Elektron Limited, Clifton Junction, England. Electrodeposition on magnesium and magnesium-base alloys. 2,650,902, Sept. 1.

Hildemann, Victor: *See*—
Hoyer, Theodore R., and Hildemann.

Hills, Elmer G.: *See*—
Barr, Robert L., and Hills.

Hime, Norman S., assignor to Collins Radio Company, Cedar Rapids, Iowa. Potentiometer. 2,650,974, Sept. 1.

Hirschland, Herbert E., Rahway, N. J. Faucet connector. 2,650,836, Sept. 1.

Hitachi Limited, assignee: *See*—
Kuwayama, Masatoshi.

Hoadley, Henry H., Manchester, assignor to United Aircraft Corporation, East Hartford, Conn. Boundary layer control in blowers. 2,650,752, Sept. 1.

Hoffman, Jacob N., Harrisburg, Pa., assignor to Underwood Corporation, New York, N. Y. Carriage tabulating mechanism. 2,650,680, Sept. 1.

Hoke, Charles V., assignee: *See*—
Berstler, Francis E.

Hoke, Frank, assignor to Holcomb & Hoke Mfg. Co., Inc., Indianapolis, Ind. Cleaner for engine cooling systems. 2,650,602, Sept. 1.

Holcomb & Hoke Mfg. Co., Inc., assignee: *See*—
Hoke, Frank.

Holcomb, J. L., Manufacturing Company, assignee: *See*—
Le Fave, Gene M.

Holderegger, Hermann, Buchs (Aarg), Switzerland. Furniture provided with drawers. 2,650,871, Sept. 1.

Holman, Herbert E., assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Producing metal mesh screens. 2,650,900, Sept. 1.

Holmes, Bradford B.: *See*—
Seid, Bernard, Holmes, and Pauly.

Holstebroe, Kaye B.: *See*—
Rideout, Arthur E., Holstebroe, and Johnson.

Honoré, Etienne A. H.: *See*—
Torcheux, Emile E. G., and Honoré.

Hoog, Han: *See*—
Engel, Willem F., and Hoog.

Hooker Electrochemical Company, assignee: *See*—
Maude, Aylmer H., and Rosenberg.

Hooper, Edward, South Shields, England. Dough mixer with hook attachment. 2,650,806, Sept. 1.

Hoover, Richard D.: *See*—
Graham, William R., Jr., Kohler, and Hoover.

Hopkins, Richard B., Waukesha, Wis. Torsion spring mounting of tractor drive wheels. 2,650,668, Sept. 1.

Hord, Paul E., Tebbetts, Mo. Ventilating and air circulating device. 2,650,535, Sept. 1.

Hornfeck, Anthony J.: *See*—
English, James F., Jr., and Hornfeck.

Hornfeck, Anthony J., Lyndhurst, Ohio, assignor to Bailey Meter Company. Electric motor control system responsive to fluid pressure signal. 2,651,011, Sept. 1.

Howard, Alan, B. O., Buckland, and C. S. Rice, Schenectady, N. Y., assignors to General Electric Company. Turbomachine stator casing. 2,650,753, Sept. 1.

Howden, Peter, assignor of one-half to Ernest Newell & Company Limited, Misterton, via Doncaster, England. Kiln. 2,650,814, Sept. 1.

Howe Twister Corporation, assignee: *See*—
Uhlig, Henry C.

Howes, Leonard R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Roll assembly for continuous strip pickling tanks. 2,650,003, Sept. 1.

Howland, William E., Milton Junction, and I. D. Tefft, assignors to Vape-O-Plate Co., Janesville, Wis. Baffle member for combustion chambers. 2,650,555, Sept. 1.

Howlett, Edward J., Edgware, assignor to Isaac Braithwaite & Son Engineers Limited, Kendal, England. Folding machine for laundry purposes. 2,650,821, Sept. 1.

Hoyer, Theodore R., and V. Hildemann, Oshkosh, Wis. Motor vehicle invalid lift. 2,650,725, Sept. 1.

Hudson, Monie S., Spartanburg, S. C. Preservative impregnation of wood. 2,650,885, Sept. 1.

Huet, André, Paris, France. Counter current heat exchanger. 2,650,802, Sept. 1.

Hulstein, Neal S., assignor to Heiland Research Corporation, Denver, Colo. Device for adjustably supporting cameras or the like. 2,650,788, Sept. 1.

Hume, Horace D., Mendota, Ill. Trailer type crop loader. 2,650,990, Sept. 1.

Hume, Horace D., and J. D. Wheeler, Mendota, Ill., said Wheeler assignor to said Hume. Trailer hitch. 2,650,832, Sept. 1.

Huribut, James H.: *See*—
Brown, Dan A., and Huribut.

Hutchinson, Henry M., Banstead, England, assignor to The Distillers Company Limited, Edinburgh, Scotland. Heat-treatment of coagulated thermoplastic polymer latices. 2,650,912, Sept. 1.

Hydro-Aire, Inc., assignee: *See*—
Wilkinson, Orville L., and Wright.

Ideal Roller and Manufacturing Company, assignee: *See*—
Love, Harold N.

Illinois Tool Works, assignee: *See*—
Poupitch, Ougljesa J.

Institute of Paper Chemistry, The, assignee: *See*—
Pearl, Irwin A.

Institutum Divi Thomae Foundation, assignee: *See*—
Sperti, George S.

Interior, Government of the United States as represented by the Secretary of the, assignee: *See*—
Bonar, Floyd, and Pears.

International Business Machines Corporation, assignee: *See*—
Johnson, Curt L., and Nord.

Istiso, Philomena C.: *See*—
Paksuer, Serge, and Istiso.

Ipsen, Harold N., Rockford, Ill. Electric heating apparatus. 2,650,944, Sept. 1.

Ischer, Hans, assignor to Sandoz A. G., Basel, Switzerland. Diazo dyestuffs. 2,650,916, Sept. 1.

Jackson Buff Corporation, assignee: *See*—
MacFarland, Laurens W.

Jackson Industries Inc., assignee: *See*—
Latimer, James T.

Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Lock mechanism. 2,650,492, Sept. 1.

Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Electric switch. 2,650,958, Sept. 1.

Jacobi, Edward N., assignor to Briggs & Stratton Corportion, Milwaukee, Wis. Electrical switch. 2,650,973, Sept. 1.

Jacobs Bros. Co. Inc., The, assignee: *See*—
Carlise, Oswald S.

Jacobsson, Wilgot J., Plainfield, and E. Behnke, Newark, N. J., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Gas pressure regulator resistant to burn. 2,650,455, Sept. 1.

Jaeschke, Ralph L., assignor to Dynamatic Corporation, Kenosha, Wis. Regulating control and regenerative circuit. 2,650,996, Sept. 1.

James, Ralph W.: *See*—
Clark, James R., Jr., and James.

Jamotte, Georges C. F. J. G., Brussels, Belgium, assignor to Societe P. R. I. M. Societe Anonyme Holding de Perfectionnements et de Recherches Industrielles et Mecaniques, Merch Lez, Luxembourg, Luxembourg. Lubrication of wobble plate internal-combustion engines. 2,650,676, Sept. 1.

Jennings, Harry C., Jr., Los Angeles, Calif. Apparatus for bending tubing. 2,650,636, Sept. 1.

Johansson, Ernest G., Belmont, assignor to Anchor Manufacturing Company, Boston, Mass. Meter box and cover. 2,651,008, Sept. 1.

Johnson, Albin L.: *See*—
Rideout, Arthur E., Holstebroe, and Johnson.

Johnson, Curt L., Vestal, and J. A. Nord, Johnston City, assignors to International Business Machines Corporation, New York, N. Y. Spring calling device. 2,650,638, Sept. 1.

Johnson, Glenn D., Holden, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Electric filling stop motion for narrow ware looms. 2,650,625, Sept. 1.

Johnson, Robert E., Kingsport, Tenn. Collapsible ironing board. 2,650,442, Sept. 1.

Johnson, Robert L., Unity, Wis. Fishing line guide. 2,650,447, Sept. 1.

Johnson, Thurman assignee: *See*—
Sammer Rudolph.

Johnson, Walter J., Buffalo, and C. G. Ertell, Eggertsville, assignors to J. H. Williams & Co., Buffalo, N. Y. Pipe wrench with nut fulcrumed pivoted outer jaw. 2,650,512, Sept. 1.

Jones, Daniel C., Port Washington, assignor to Kochring Company, Milwaukee, Wis. Concrete pavement finishing machine. 2,650,535, Sept. 1.

Jordan, Lynvell R., Santa Monica, assignor to J. B. Nethercutt, Los Angeles, Calif. Flying target. 2,650,829, Sept. 1.

Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,650,379, Sept. 1.

Joy, Joseph F., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Disintegrating and conveying chain. 2,650,812, Sept. 1.

Joy Manufacturing Company, assignee: *See*—
Bebinger, Charles N.
Joy, Joseph F.
Osgood, Charles F.
Rollins, Lester G., and Barrett.

Kalmon, Joseph J., Medford, Wis. Butcher knife having a removable guard. 2,650,424, Sept. 1.

Karstedt, Elmer C., Burlington, Wis. Container-dispenser for poisoned bait. 2,650,451, Sept. 1.

Kattis, Theodore, Bedford, Ind. Clear ice-making machine. 2,650,479, Sept. 1.

Katz, Leon, Cincinnati, Ohio, assignor to Schenley Industries, Inc., New York, N. Y. Substituted benzaldehydethiosemicarbazone. 2,650,937, Sept. 1.

Kaye, Robert L., Newark, N. J. 5 and 10 drum flush unit. 2,650,601, Sept. 1.

Kebrich, Leonard M., Brooklyn, and A. R. Pitrot, Hempstead, assignors to National Lead Company, New York, N. Y. Preparing metallic soaps of fatty acids. 2,650,932, Sept. 1.

Kellems Company, assignee: *See*—
Kellems, David L.

Kellems, David L., Mystic, assignor to Kellems Company, Stonington, Conn. Interwoven mesh type cable grip. 2,650,400, Sept. 1.

Kellogg, Homer G., Highland Park, assignor to Motor Products Corporation, Detroit, Mich. Apparatus for producing metal parts. 2,650,635, Sept. 1.

Kellogg, M. W., Company, The, assignee: *See*—
Cooper, George T.
Lobo, Walter E.

Kerr, Oscar F., Sulphur Springs, Tex. Cotton-picking machine. 2,650,461, Sept. 1.

Kessel, Ralph M.: *See*—
Wickwire, Arthur M., and Kessel.

Kessler, Frank, Rochester, N. Y., assignor to Stromberg-Carlson Company. Telephone line lockout adapter. 2,650,950, Sept. 1.

Ketchledge, Raymond W., Jamaica, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Accelerometer. 2,650,991, Sept. 1.

Kidd, Lloyd L., Robbinsdale, Minn. Multipurpose depth gauge. 2,650,435, Sept. 1.

Kiekhaefer, Elmer C., Cedarburg, Wis. Engine driven chain saw and oiling system therefor. 2,650,626, Sept. 1.

King, H. A., assignee: *See*—
Peirce, Thomas H.

King, H. A., Company, assignee: *See*—
Peirce, Thomas H.

King-Seeley Corporation, assignee: *See*—
Neumann, Kurt K.

King, William R., Borger, Tex., assignor to Phillips Petroleum Company. Flow controller for granular solids. 2,650,693, Sept. 1.

Kingman, Rufus M., assignor to Hewlett-Packard Company, Palo Alto, Calif. Terminal card manufacturing machine. 2,650,415, Sept. 1.

Kinnaird, Kenneth: *See*—
Mashburn, William O., Jr., Broetzler, and Kinnaird.

Klages, Norman H., assignor to American Window Glass Company, Pittsburgh, Pa. Glass cutting machine. 2,650,430, Sept. 1.

Klauder, Norman, executor: *See*—
Roth, Raymond T.

Klein, Johann, Brooklyn, N. Y. Sectional shield for clothes lines. 2,650,716, Sept. 1.

Klein, Victor G., Overland, assignor to Lincoln Engineering Company, St. Louis, Mo. Lubricating apparatus. 2,650,677, Sept. 1.

Knotter, James D., Cheshire, assignor to Scovill Manufacturing Company, Waterbury, Conn. Zipper fastened trouser fly. 2,650,366, Sept. 1.

Knudsen, Knud J., Woodbury, assignor to The Lewis Engineering Company, Naugatuck, Conn. Jet engine fuel control. 2,650,471, Sept. 1.

Knudson, Giltner J., Guilford, assignor to Bendix Aviation Corporation, New York, N. Y. Bearing. 2,650,866, Sept. 1.

Kobler, Richard, New York, N. Y., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Remotely controlled recording system. 2,650,951, Sept. 1.

Kocks Snickerifabriker Aktiebolag, assignee: *See*—
Ohlsson, Folke.

Koehring Company, assignee: *See*—
Jones, Daniel C.

Köhler, Franz, Aisbach (Bergstrasse), assignor to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Frankfurt am Main, Germany. Water-soluble urea-aldehyde condensation products and making same. 2,650,910, Sept. 1.

Kohler, George O.: *See*—
Graham, William R., Jr., Kohler, and Hoover.

Koome, Jacob, and C. N. J. de Nooijer, Amsterdam, Netherlands, assignors to Shell Development Company, Emeryville, Calif. Conversion of carbohydrates to polyhydric alcohols. 2,650,941, Sept. 1.

Koren, George J., assignor to Pettibone Mulliken Corporation, Chicago, Ill. Sand handling apparatus. 2,650,396, Sept. 1.

Kosie, Anthony W.: *See*—
Soltow, John F., and Kosie.

Kreamer, William H., Roanoke, Va., assignor to American Viscose Corporation, Wilmington, Del. Control device. 2,650,414, Sept. 1.

Krueger, Alfred P., Stratford, assignor to Derby Sealers, Incorporated, Derby, Conn. Tape dispensing mechanism. 2,650,433, Sept. 1.

Krueger, Theodore H., Stratford, assignor to Better Packages Incorporated, Shelton, Conn. Gummed tape dispenser. 2,650,774, Sept. 1.

Kuschel, Richard J.: *See*—
Adkins, Robert T., and Kuschel.

Kuwayama, Masatoshi, Taga, assignor to Hitachi Limited, Tokyo, Japan. Bushing type circuit interrupter. 2,650,972, Sept. 1.

Kuyudjian, Arsen M., assignee: *See*—
Shagoy, Arthur G.

Kuzmick, Joseph N., Clifton, assignor to Conmar Products Corporation, Newark, N. J. Plastic slide fastener. 2,650,402, Sept. 1.

Laaketehdas Orion Oy, assignee: *See*—
Ouperoff-Urne, Vasili.

La Greca, Frank, Philadelphia, Pa. Serving dish. 2,650,485, Sept. 1.

La Marche, Austin W., Prospect Heights, Ill. Electrical converter. 2,651,018, Sept. 1.

La Mond, John R., Washington, D. C. Weatherproof covering closure fastener. 2,650,401, Sept. 1.

Langbein, Charles, assignee: *See*—
Dalley, Charles J.

Langbein, Emil, assignee: *See*—
Dalley, Charles J.

Langbein, William, assignee: *See*—
Dalley, Charles J.

Langbein, Wm., & Bros., assignee: *See*—
Dalley, Charles J.

Langdon, Jesse D., Long Beach, Calif. Adjustable tire. 2,650,632, Sept. 1.

Lange, Bernard A., assignor of one-half to E. Steele, Brantwood, Wis. Automobile window sash and screen assembly. 2,650,858, Sept. 1.

La Radio-Industrie S. A., assignee: *See*—
Mandel, Paul.

Larson, Charles O., Sterling, Ill. Display stand. 2,650,717, Sept. 1.

Latimer, James T., Birmingham, Ala., assignor to Jackson Industries Inc. Veneer lathe embodying improved pressure bar actuating mechanism. 2,650,629, Sept. 1.

Lautzenhiser, Argyle G.: *See*—
Short, Brooks H., and Lautzenhiser.

Leard, Fred J., Westminster, S. C. Filling end separator for multiple shuttle looms. 2,650,622, Sept. 1.

Learn, Reuben H.: *See*—
Geyer, Wallace T., Learn, and Sult.

Lee Industries, Inc., assignee: *See*—
Gethner, Lee.

Le Fave, Gene M., New Augusta, assignor to J. I. Holcomb Manufacturing Company, Indianapolis, Ind., Alkyl monoamine salts of pentachlorphenol useful for controlling mites. 2,650,892, Sept. 1.

Legault, Paul E.: *See*—
Beall, Desmond, Grant, and Legault.

Leonard, Frank, assignee: *See*—
Wyza, John.

Lepponen, Peter H., Walden, Colo. Auto bumper guard. 2,650,851, Sept. 1.

Lestershire Spool and Manufacturing Company, assignee: *See*—
Crooks, Earl G.

Leuchs, Friedrich, and H. Zöllner, Rothenbach (Pegnitz), assignors to C. Conradty, Nurnberg, Germany. Electrode of carbon. 2,650,943, Sept. 1.

Lever Brothers Company, assignee: *See*—
Goldwasser, Seymore.

Levine, Samuel: *See*—
Cohen, Abraham J., Levine, Caminear, and Price.

Levy, René L., also known as R. Lucien, Paris, France, assignor to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., Geneva, Switzerland. Liquid spring shock-absorber. 2,650,820, Sept. 1.

Lewis Engineering Company, The, assignee: *See*—
Knudsen, Knud J.

Libbey-Owens-Ford Glass Company, assignee: *See*—
Gaiser, Romey A., and Boicey.

Lichtig, Sanford H., Cleveland, Ohio. Fishing line brake. 2,650,448, Sept. 1.

Lincoln Engineering Company, assignee: *See*—
Klein, Victor G.

Linder, Ernest G., Princeton, N. J., assignor to Radio Corporation of America. Redex velocity modulated discharge device. 2,651,000, Sept. 1.

Lindsay & Wagnild, Inc., assignee: *See*—
Stine, Oliver C.

Lindsey, Frank A., Jr.: *See*—
Dron, Douglas W., and Lindsey.

Linhorst, Erwin F., Fort Wayne, Ind., assignor to United States Rubber Company, New York, N. Y. Jolly balance. 2,650,494, Sept. 1.

Lippert, Hanns, and E. Hepperle, Zurich, assignors to Verwaltungsgesellschaft der Werkzeugmaschinenfabrik Oerlikon, Zurich-Oerlikon, Switzerland. Automatic firearm. 2,650,520, Sept. 1.

Lobo, Walter E., Westfield, assignor to The M. W. Kellogg Company, Jersey City, N. J. Seprating gas mixtures. 2,650,482, Sept. 1.

Lo Cascio, Jack J., Bayonne, N. J., assignor to Even-Pul Foundations, Inc., New York, N. Y. Brassière with breast straps having adjustment at sides. 2,650,363, Sept. 1.

Long, Russell B., Gray Ridge, Mo. Tree felling and land-clearing attachment. 2,650,628, Sept. 1.

Lorenz, Anton, Buffalo, N. Y. Reclining article of furniture. 2,650,640, Sept. 1.

Love, Harold N., assignor to Ideal Roller and Manufacturing Company, Chicago, Ill. Device for making injections. 2,650,901, Sept. 1.

Lovett, Albert B.: *See*—
Garrison, John W., and Lovett.

Lowe, Richard J., Centerville, Iowa. Pillow adjuster for automobile mechanic's creeper. 2,650,372, Sept. 1.

Loyola University Foundation, assignee: *See*—
Clark, James R., Jr., and James.

Lucien, René: *See*—
Levy, René L.

Lundberg, John E., Lynn, and H. G. Swanson, Belmont, Mass., assignors to General Electric Company, Balancing means for floated gyroscopes. 2,650,502, Sept. 1.

Lundstrom, Ida, St. Louis, Mo. Draper shade and curtain hardware. 2,650,715, Sept. 1.

Lyon, George A., Detroit, Mich. Wheel cover. 2,650,862, Sept. 1.

M & J Engineering Co., assignee: *See*—
Bryant, Austin U.

MacDonald, Donald A., Houston, Tex. Fluid lift pumping equipment. 2,650,574, Sept. 1.

MacFarland, Laurens W., assignor to Jackson Buff Corporation, Long Island City, N. Y. Machine for the manufacture of buffs and similar articles. 2,650,861, Sept. 1.

MacGinnis, Gerald M., San Francisco, Calif. Tax calculator. 2,650,763, Sept. 1.

Machado, Anthony P., San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc. Calculating machine. 2,650,761, Sept. 1.

MacKay, Richard T., Hollis, assignor to The Poelis Company, Brooklyn, N. Y. Dual load and unload chute device. 2,650,729, Sept. 1.

Mackie, Harry, Leigh, assignor to Electro-Hydraulics Limited, Warrington, England. Pressure regulating device. 2,650,605, Sept. 1.

MacKnight, Edgar W., San Leandro, Calif. Adjustable seat assembly. 2,650,647, Sept. 1.

Magnesium-Elektron Limited, assignee: *See*—
Higgins, William F.

Maico, Leo C., Long Beach, Calif. Contour chair with movable padded seat. 2,650,644, Sept. 1.

Mandel, Paul, assignor to La Radio-Industrie S. A., Paris, France. Wireless aerial. 2,650,984, Sept. 1.

Mann, William: *See*—
Coombes, Joseph H., and Mann.

Mansfield, Wilfred P., and J. White, Slough, assignors to Sir W. G. Armstrong Whitworth & Company (Engineers), Limited, London, England. Recoating combustion power gas generator. 2,650,472, Sept. 1.

Manufacture de Caoutchouc Michelin (Puiseux, Boulanger & Cie), assignee: *See*—
Bourdon, Pierre M.

Marathon Corporation, assignee: *See*—
Goers, Edwin C.

Marco Company, Inc., assignee: *See*—
Marco, John.

Marco, John, Wilmington, Del. Mixing valve. 2,650,792, Sept. 1.

Marco, John, assignor to Marco Company, Inc., Wilmington, Del. Machine and process for producing latex foam continuously. 2,650,804, Sept. 1.

Marien, Melvin W., assignor to Ramsey Corporation, St. Louis, Mo. Piston ring. 2,650,866, Sept. 1.

Marien, Kenneth O., Detroit, Mich. Wire reeling machine. 2,650,771, Sept. 1.

Marlew, Owen W., Rock Island, Ill. Mechanical spring. 2,650,819, Sept. 1.

Marquardt, Max, East Greenwich, R. I. Manufacture of flexible chains. 2,650,460, Sept. 1.

Marquette Metal Products Company, The, assignee: *See*—
Moulton, Lloyd J.

Martin, John A.: *See*—
Van Blaricom, Lester O., and Martin.

Martin, Samuel M.: *See*—
Gray, John B., III, and Martin.

Martin, Thomas C., Cohasset, Mass. Toy bank. 2,650,452, Sept. 1.

Martin, Thomas C., Natick, Mass. Aquatic figure toy. 2,650,453, Sept. 1.

Martin, Tom E., Bartlesville, Okla., and E. Edmunds, Jr., Albuquerque, N. Mex., assignors to Phillips Petroleum Company. Adjusting the concentration of ammonium nitrate solutions. 2,650,660, Sept. 1.

Martin, William E., Kewanee, Ill. Swingable trailer ramp. 2,650,727, Sept. 1.

Martin, William E., Kewanee, Ill. Center spring mounting. 2,650,818, Sept. 1.

Martin, William L., Los Angeles, Calif., R. J. Slutz, Kensington, and H. R. Seaf, Bethesda, Md., assignors to the United States of America as represented by the Secretary of Commerce. Transformer-coupled pulse-train amplifier. 2,650,955, Sept. 1.

Maschinenfabrik Heid Aktiengesellschaft, assignee: *See*—
Musil, Josef.

Mashburn, William O., Jr., and G. A. Broetzler, Cincinnati, Ohio, and K. Kinnaird, Kenton County, Ky., assignors to The Coca-Cola Bottling Works Co., Cincinnati, Ohio. Body for delivery trucks. 2,650,856, Sept. 1.

Materials Blasting Company, Inc., assignee: *See*—
Bagg, Kenly C.

Matheny, Clella A., Peoria, and W. J. Myers, Bureau, assignors to Caterpillar Tractor Co., Peoria, Ill. Making collared shafts. 2,650,418, Sept. 1.

Mathiesen, Erik, Lyons, Nebr. Milk cooling and distributing means. 2,650,427, Sept. 1.

Matolin, Louis: *See*—
Aller, Edmund R., Gleason and Matolin.

Maude, Aylmer H., and D. S. Rosenberg, assignors to Hooker Electrochemical Company, Niagara Falls, N. Y. Production of hexachlorocyclopentadiene. 2,650,942, Sept 1.

May, Cliff, assignee: *See*—
Choate, Christian H.

McBee, Earl T., and J. S. Newcomer, assignors to Purdue Research Foundation, West Lafayette, Ind. Hexachlorocyclopentenone preparation. 2,650,930, Sept. 1.

McCabe-Powers Auto Body Co., assignee: *See*—
Balogh, Roy O.

McClaskey, Paul L., Phoenixville, Pa. Oil gauge rod wiper. 2,650,384, Sept. 1.

McConaghey, Philip H., Pittsburgh, Pa., assignor to United States Steel Corporation. Strip tracking alarm. 2,651,031, Sept. 1.

McCord, Georgie P.: *See*—
Hiatt, Herbert D., McCord and Peterson.

McCray, Donald C.: *See*—
McCray, Donald R., and D. C.

McCray, Donald R., and D. C. McCray, Fairview, Pa. Wire and tubing rolling machine. 2,650,500, Sept. 1.

McDaniel, Lloyd E., Plainfield, and Harold B. Woodruff, Westfield, assignors to Merck & Co., Inc., Rahway, N. J. Cyanide ion in production of vitamin B_{12}. 2,650,806, Sept. 1.

McDonald, Francis G.: *See*—
Wallenmeyer, John C., McDonald, and Henry.

McElroy, Arthur B.: *See*—
Taylor, Raymond G., Jr., McElroy, and Davis.

McGinley, James J., Williston Park, N. Y., assignor to American Machine and Foundry Company. Wrapping machine. 2,650,459, Sept. 1.

McNeil Laboratories, Incorporated, assignee: *See*—
Fine, Richard D. M., III.

McPhee, Kenneth H., and H. W. Soderstrom, assignors to Collins Radio Company, Cedar Rapids, Iowa. Metal-to-ceramic seal. 2,650,683, Sept. 1.

Mead, Glen K.: *See*—
Mosier, Kenneth C., and Mead.

Mead Johnson & Company, assignee: *See*—
Wallenmeyer, John C., McDonald, and Henry.

Mederos, Thomas S., Jr., Granby, Conn., assignor to Underwood Corporation, New York, N. Y. Counting ring utilizing cold cathode tubes. 2,651,006, Sept. 1.

Mediano Capdevila, Gonzalo, Barcelona, Spain, assignor to Coturno, S. A., Caracas, Venezuela. Vulcanizing rubber soles on boots and shoes. 2,650,390, Sept. 1.

Meller Bromley & Co. Limited, assignee: *See*—
Shortland, Arthur.

Merck & Co., Inc., assignee: *See*—
McDaniel, Lloyd E., and Woodruff.
Sprague, James M., and Schultz.

Meredith, Frederick W., Cricklewood, assignor to S. Smith and Sons (England) Limited, London, England. Electric aircraft control apparatus. 2,651,015, Sept. 1.

Mergen, Joseph M., Verona, N. J., assignor to Curtiss-Wright Corporation. Multiple race ball bearing. 2,650,864, Sept. 1.

Messager, Jacques J. E., Paris, France. Sash gate. 2,650,474, Sept. 1.

Metcalfe, Jack L., and Thomas O., Bluefield, Va. Weighing scale. 2,650,391, Sept. 1.

Metcalfe, Thomas O.: *See*—
Metcalfe, Jack L., and T. O.

Method-X Company, assignee: *See*—
Teubner, Edmund E.

Meyer, Earl A., Madison, Wis., assignor to Bjorksten Research Laboratories, Inc. Transistor design. 2,651,009, Sept. 1.

Meyer, Walter W., Cuba Township, Lake County, assignor to Rotary Seal Company, Chicago, Ill. Seal. 2,650,841, Sept. 1.

Michaels, Hunter, New York, N. Y., and J. F. Fleck, Youngstown, Pa., assignors to American Locomotive Company, New York, N. Y. Railway car wheel. 2,650,853, Sept. 1.

Middleton, Walter G., Bartlesville, Okla., and K. E. More, Vancouver, British Columbia, Canada, assignors to Phillips Petroleum Company. Fluid flowmeter with heated resistance bridge circuit. 2,650,496, Sept. 1.

Miescher, Karl, Riehen, A. Wettstein, Basel, and J. Heer, Binningen, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. Manufacture of bromocholadienes. 2,650,930, Sept. 1.

Miller, Floyd F.: *See*—
Gilbert, Harry, Miller, and Felt.

Miller, Francis B., assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Variable transformer for alternating current welders. 2,651,023, Sept. 1.

Miller, Rosalie R., executrix: *See*—
Miller, Samuel C.

Miller, Roy L., Westwood, Colo. Guitar steel. 2,650,513, Sept. 1.

Miller, Samuel C., deceased, New York, N. Y., R. H. Miller, executrix of said S. C. Miller. Cold cathode illuminating assembly and insulator housing therefor. 2,651,024, Sept. 1.

Millidge, Alfred F.: *See*—
Gasson, Edward J., Millidge, and Webster.

Mills, Herbert E., assignor to The Murray Corporation of America, Detroit, Mich. Cabinet range construction. 2,650,586, Sept. 1.

Milson, Frederick R., B. Wood, assignors to S. Smith and Sons (England) Limited, London, and Fursehill Laboratories Limited, Boreham Wood, England. Voltage regulator. 2,651,020, Sept. 1.

Miner, Frederic I., Warwick, R. I., assignor to Welsh Manufacturing Company. Nose pad for ophthalmic mountings. 2,650,519, Sept. 1.

Miner, W. H., Inc., assignee: *See*—
Danielson, Vernon S.

Miner, W. H., Inc., assignee: *See*—
Dath, George E.
Hazeltine, Stacy B.

Mines Domaniales de Potasse d'Alsace, assignee: *See*—
Colin, Jules, Burr, and Gafanesch.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Chapman, Robert R.

Missouri Automatic Control Corporation, assignee: *See*—
Wasser, Joseph A.

Mitchell, Colin C. assignor to Brown Brothers & Co. Limited, Edinburgh, Scotland. Sealing means for slotted cylinders. 2,650,571, Sept. 1.

Mitchell, William E., Altoona, Pa. Mold form. 2,650,410, Sept. 1.

Mitchell, William E., Altoona, Pa. Mold for head wall construction. 2,650,411, Sept. 1.

Moe, Owen A., Minneapolis, Minn., assignor to General Mills, Inc. Gum ethers and process therefor. 2,650,917, Sept. 1.

Mohawk Carpet Mills, Inc., assignee: *See*—
Crawford, John.

Moldowan, Dionis E., Detroit, Mich. Sod cutter. 2,650,532, Sept. 1.

Monsanto Chemical Company, assignee: *See*—
Adams, Charles H.
Boyd, Thomas.
Fordyce, Reid G., and Baer.
Gamrath, Harry E., and Weesner.

Montclair Research Corporation, assignee: *See*—
Rust, John B., and Spialter.

Montellus, George A., Minneapolis, Minn. Scalpel. 2,650,426, Sept. 1.

Montgomery, Donald H., West Hartford, assignor to The New Britain Machine Company, New Britain, Conn. Machine tool. 2,650,416, Sept. 1.

Montgomery, Kenneth R., Coos Bay, Oreg. Belt adjuster. 2,650,506, Sept. 1.

Moore, Dorothy S.: *See*—
Moore, Leroy and D. S.

Moore, Leroy and D. S., Jackson, Miss. Infant restraining device. 2,650,590, Sept. 1.

More, Kenneth R.: *See*—
Middleton, Walter G., and More.

Morgan, Frank A., Anderson, Ind. Nut actuated spider type tire bead loosener. 2,650,659, Sept. 1.

Morgen, André L. A., Reims, France. Power operated implement attachment for tractors. 2,650,528, Sept. 1.

Morrison, Edward B., Franklin, La., assignor of one-half to R. C. Morrison, El Dorado, Ark. Vacuum controlled auxiliary ignition switch for internal-combustion engines. 2,650,965, Sept. 1.

Morrison, Robert C., assignee: *See*—
Morrison, Edward B.

Mortimer, Edmund W.: *See*—
Fortune, Henry J., and Mortimer.

Mosier, Kenneth C., and G. K. Mead, assignors to C. A. Norgren Co., Denver, Colo. Pressure regulating valve. 2,650,456, Sept. 1.

Moosberg Pressed Steel Corporation, assignee: *See*—
Olson, Robert V.

Motor Products Corporation, assignee: *See*—
Kellogg, Homer G.

Moulton, Lloyd J., Mentor, assignor to The Marquette Metal Products Company, Cleveland, Ohio. Control mechanism. 2,650,580, Sept. 1.

Moynahan Bronze Company, assignee: *See*—
Cudini, Roger G.

Mueller Co., assignee: *See*—
Mueller, Frank H., and Smith.

Mueller, Frank H., and J. J. Smith, assignors to Mueller Co., Decatur, Ill. Pipe line stopper. 2,650,620, Sept. 1.

Murray, Atla L., Dayton, Ky. Release for motion-picture camera mechanism. 2,650,501, Sept. 1.

Murray Corporation of America, The, assignee: *See*—
Mills, Herbert E.

Musgrave, Christine, St. Charles, Mo. Knee pad for infants. 2,650,362, Sept. 1.

Musil Josef, assignor to Maschinefabrik Heid Aktiengesellschaft, Vienna, Austria. Apparatus for the selection of seeds or similar material. 2,650,704, Sept. 1.

Myers, William J.: *See*—
Matheny, Clella A., and Myers.

Mytinger, Caroline, Monterey, Calif. Compartmented container. 2,650,630, Sept. 1.

Nardone, Romeo M., Teaneck, N. J. Automatic stapling machine. 2,650,360, Sept. 1.

National Lead Company, assignee: *See*—
Kebrich, Leonard M., and Pitrot.
Sprague, Owen F.

National Supply Company, The, assignee: *See*—
Abraham, James G.

Neahr, William R., and R. L. Davis, assignors to American Seating Company, Grand Rapids, Mich. Multidirectional inertia-operated safety device for vehicle chairs. 2,650,655, Sept. 1.

Neff, Gene M.: *See*—
Forsé, Frits V., and Neff.

Nemmer, Leo B., Glendale, Calif., and C. J. O'Brien, Lockport, N. Y., assignors to General Motors Corporation, Detroit, Mich. Valve for lubricant temperature regulating systems. 2,650,767, Sept. 1.

Nemser, Marie, Jersey City, N. J. Clasp pin eyeglass holder. 2,650,397, Sept. 1.

Nesham, John E. C., assignor, by mesne assignments, to Airnesco Products Limited, Rochester, England. Fluid pressure actuated blast gun. 2,650,615, Sept. 1.

Nethercutt, Jack B., assignee: *See*—
Jordan, Lynvell R.

Neumann, Kurt K., assignor to King-Seeley Corporation, Ann Arbor, Mich. Interval timer construction. 2,650,466, Sept. 1.

Newbold, Park L., Cedar Rapids, Iowa. Check-out device. 2,650,678, Sept. 1.

New Britain Machine Company, The, assignee: *See*—
Montgomery, Donald H.

Newcomer, Jack S.: *See*—
McBee, Earl T., and Newcomer.

Newell, Ernest, & Company Limited, assignee: *See*—
Howden, Peter.

Newell, Frederick T., Bradford, Pa., assignor to Dresser Industries, Inc., Cleveland, Ohio. Large diameter coupling. 2,650,839, Sept. 1.

New Haven Clock and Watch Company, The, assignee: *See*—
De Negre, Louis.

Newhouse, George A., Yorktown, assignor to N. G. Gilbert, Muncie, Ind., as trustee. Spirally arranged toothed cultivator wheel. 2,650,460, Sept. 1.

Nigh, George W., assignor to Tide Water Associated Oil Company, Bayonne, N. J. Tensioning apparatus. 2,650,713, Sept. 1.

Nisery, André R. M., assignor to Centre National de la Recherche Scientifique, Paris, France. Transporting float. 2,650,558, Sept. 1.

Nord, James A.: *See*—
Johnson, Curt I., and Nord.

Nordell, Carl H., Palm Springs, Calif. Means for raising and lowering diffuser tubes. 2,650,810, Sept. 1.

Nordmark, Walter E., and N. C. Poel, assignors to American Seating Company, Grand Rapids, Mich. Chair structure. 2,650,648, Sept. 1.

Norgren, C. A., Co., assignee: *See*—
Mosier, Kenneth C., and Mead.

Norsk Stalull A/S, assignee: *See*—
Hagen, Leif E.

Northrop Aircraft, Inc., assignee: *See*—
Northrop, John K., and Cerny.

Northrop, John K., Pacific Palisades, and W. J. Cerny, Los Angeles, assignors to Northrop Aircraft, Inc., Hawthorne, Calif. All-wing aircraft. 2,650,760, Sept. 1.

Norton, Orlo C., Erie, Pa. Waste disposing device. 2,650,706, Sept. 1.

Norton, Sir James Farmer, & Company, Limited, assignee: *See*—
Norton, William J.

Norton, William J., assignor to Sir James Farmer Norton & Company, Limited, Salford, England. Means for measuring and indicating the tension in strip passing between the stands of a rolling mill. 2,650,496, Sept. 1.

Nutter, William L., Jr.: *See*—
Weil, Jay D., and Nutter.

Nystul, Orville C., North Fargo, N. Dak. Filler cap loosening wrench. 2,650,608, Sept. 1.

Oberwortman, Walter H., assignor to W. H. O. Alfalfa Milling Company, Lamar, Colo. Feeder for fodder cutters. 2,650,746, Sept. 1.

O'Brien, Charles J.: *See*—
Nemmer, Leo B., and O'Brien.

Oestrich, Hermann, assignee: *See*—
Roeskopf, Hans.

Oetzel, John G., Beloit, Wis., assignor to Warner Electric Brake & Clutch Company. Electromagnetic friction device. 2,650,682, Sept. 1.

Ohlsson, Folke, assignor to Kocks Snickerifabriker Aktiebolag, Malmo, Sweden. Sitting furniture of the knockdown type. 2,650,656, Sept. 1.

Ohlsson, Folke, assignor to Kocks Snickerifabriker Aktiebolag, Malmo, Sweden. Sitting furniture of the knockdown type. 2,650,657, Sept. 1.

Olin Industries, Inc., assignee: *See*—
Winckler, Gunnar A. F., Rose, and Reinhardt.

Olson, Robert V., Attleboro, Mass., assignor to Moosberg Pressed Steel Corporation. Torque resisting locking lug for the center tube of a spool reel or warp beam. 2,650,778, Sept. 1.

Olson, Rudolph A., Portland, Oreg. Latch for casement windows. 2,650,847, Sept. 1.

Osgood, Charles F., Franklin, Pa., assignor to Joy Manufacturing Company. Tilting arrangement for short-wall coal cutting machines. 2,650,811, Sept. 1.

Oster, John, Manufacturing Company, assignee: *See*—
Brown, Ellis M., and Feree.
Forse, Frits V., and Neff.

Ouperef-Urpe, Vasili, assignor of one-half to Laaketehdas Orion Oy, Helsinki, Finland. N,N'-piperazine dicarbamate of 2,4-dihydroxyphenylthiol. 2,650,925, Sept. 1.

Overbaugh, Charles S., Denver, Colo. Dispenser for granular materials. 2,650,742, Sept. 1.

Paksner, Serge, Elmhurst, and P. C. Intise, Chicago, Ill., assignors to The Rauland Corporation. Filming luminescent screen. 2,650,684, Sept. 1.

Palmer, Andrew, Quakertown, Pa. Building block handling crane. 2,650,718, Sept. 1.

Pankratz, Howard J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Swab for tapered casing or tubing. 2,650,546, Sept. 1.

Papesch, Viktor, Morton Grove, and E. F. Schroeder, assignors to G. D. Searle & Co., Chicago, Ill. Disubstituted derivatives of 6-amino-1,2,3,4-tetrahydro-2,4-pyrimidinediones. 2,650,922, Sept. 1.

Papesch, Viktor, Morton Grove, assignor to G. D. Searle & Co., Chicago, Ill. 1-alkenyl-5-alkyl-6-amino-1,2,3,4-tetrahydro-2,4-pyrimidinediones and derivatives thereof. 2,650,923, Sept. 1.

Papesch, Viktor, Morton Grove, assignor to G. D. Searle & Co., Chicago, Ill. Disubstituted derivatives of 2-thio-6-amino-1,2,3,4-tetrahydro-2,4-pyrimidinediones. 2,650,924, Sept. 1.

Parrott, Henry W.: *See*—
Herold, Walter F., and Parrott.

Parsell, Kendrick T., Manhasset, N. Y. Spectacle case. 2,650,701, Sept. 1.

Parsons, George B.: *See*—
Anderson, Harold G., and Parsons.

Parsons, John B., Maumee, Ohio. Rotary pump assembly. 2,650,544, Sept. 1.

Pauget, Georges, Chaville, assignor to Societe d'Instal'ation et d'Appareillage, Paris, France. High-pressure radial piston pump for liquids. 2,650,543, Sept. 1.

Pauly, Jacob L.: *See*—
Seid, Bernard, Holmes, and Pauly.

Paxson, Homer D., Salem, Ohio. Apparatus for straightening sheet metal. 2,650,637, Sept. 1.

Pearl, Irwin A., assignor to The Institute of Paper Chemistry, Appleton, Wis. Higher alkyl 4-hydroxy-3-ethoxybenzoate and making same. 2,650,933, Sept. 1.

Pears, Coultas D.: *See*—
Bonar, Floyd, and Pears.

Peebles, David D., Hillsborough, and M. D. Girvin, San Anselmo, assignors to Western Condensing Company, San Francisco, Calif. Milk product and process. 2,650,879, Sept. 1.

Peelle Company, The, assignee: *See*—
MacKay, Richard T.

Peirce, Thomas H., assignor to H. A. King, doing business as H. A. King Company, Detroit, Mich. Floor mat for automotive vehicles. 2,650,855, Sept. 1.

Pelton Water Wheel Company, The, assignee: *See*—
Bacchi, Ray.

Pennsylvania Salt Manufacturing Company, The, assignee: *See*—
Walker, Harry G.

Pentony, Joseph, assignee: *See*—
Heath, Theodore H.

Perrigo, Richard G., Seaside, Oreg. Guard for automobile grilles and radiators. 2,650,850, Sept. 1.

Peters, Melville F., East Orange, N. J. Fire responsive mechanism. 2,650,665, Sept. 1.

Peterson, Lester C.: *See*—
Hiatt, Herbert D., McCord, and Peterson.

Petrocarbon Limited, assignee: *See*—
Haward, Robert N., and Borrows.

Pettibone Mulliken Corporation, assignee: *See*—
Koren, George J.

Pfaumer, Robert E., Winnetka, Ill., assignor to American-Marietta Company. Pipe protector. 2,650,619, Sept. 1.

Phelps, Melvin B., Sidney, Nebr. Pipe holder or puller. 2,650,852, Sept. 1.

Phillips, Dwight M., Placentia, assignor to Corona Clipper Company, Corona, Calif. Clipper construction. 2,650,423, Sept. 1.

Phillips Petroleum Company, assignee: *See*—
Gilmore, Forrest E.
King, William R.
Martin, Tom E., and Edmunds.
Middleton, Walter G., and More.
Pankratz, Howard J.

Photostat Corporation, assignee: *See*—
Caps, Arthur W.

Pianowski, Leon J.: *See*—
Davis, John V., Chill, and Pianowski.

Pierce, Raymond C., assignor to American Steel Foundries, Chicago, Ill. Snubbed bolster truck. 2,650,550, Sept. 1.

Pierce, Richard J., Bellflower, Calif. Car bed and playpen for children. 2,650,374, Sept. 1.

Pirnsel, Zdzislaw L., Forest Hills, N. Y. Woman's diary and marital calculator. 2,650,764, Sept. 1.

Pitrot, Adrian R.: *See*—
Kebrich, Leonard M., and Pitrot.

Platt, George S., Baton Rouge, La. Garbage can holder. 2,650,786, Sept. 1.

Poel, Norman C.: *See*—
Nordmark, Walter E., and Poel.

Poleuktoff, Jean P., Paris, France. Servo-control valve for hydrostatic pumps. 2,650,542, Sept. 1.

Poncher, Harold and J. E., assignors to Erie Manufacturing Co., Inc., Chicago, Ill. Grille guard. 2,650,949, Sept. 1.

Poncher, Jerry E.: *See*—
Poncher, Harold and J. E.

Pope, John H., Hopewell, and N. W. Carter, Petersburg, Va., assignors to Celanese Corporation of America. Apparatus for uncurling fabric edges. 2,650,413, Sept. 1.

Popow, Mike, Philmont, N. Y. Agitated milk pasteurizer. 2,650,980, Sept. 1.

Portaro, Ross J., Cleveland, Ohio. Bobby pin. 2,650,506, Sept. 1.

Post-Glover Electric Company, The, assignee: *See*—
Yingst, Paul V.

Pottberg, Rolfe, Loch Raven, Md., assignor to Freeport Sulphur Company, New York, N. Y. Metal surface treatment. 2,650,888, Sept. 1.

Potter, John T., Great Neck, N. Y. Electronic memory device. 2,650,830, Sept. 1.

Poupitch, Ourijesa J., assignor to Illinois Tool Works, Chicago, Ill. Dash liner clip. 2,650,516, Sept. 1.

Powell, Charles: *See*—
Bennett, Eldred C., and Powell.

Powers Regulator Company, The, assignee: *See*—
Barnett, Harry.

Premier Thread Company, assignee: *See*—
Hauser, Frederick L.

Price, Stephen S.: *See*—
Cohen, Abraham J., Levine, Caminear, and Price.

Purdue Research Foundation, assignee: *See*—
McBee, Earl T., and Newcomer.

Quaker Oats Company, The, assignee: *See*—
Graham, William R., Jr., Kohler, and Hoover.

Quartullo, Orpheus F., Cleveland, Ohio, assignor to Wooldridge Manufacturing Company, Sunnyvale, Calif. Bowl ejecting mechanism for carry-type scrapers. 2,650,440, Sept. 1.

Quist, Harold A., Elkton, Md., assignor to Sun Oil Company, Philadelphia, Pa. Sampling adapter for receptacles. 2,650,499, Sept. 1.

Radiart Corporation, The, assignee: *See*—
Ehrbar, Edward J., and Cromeley.

Radio Corporation of America, assignee: *See*—
Linder, Ernest G.
Rust, Noël M., and Ramsey.

Ramsey, John F.: *See*—
Rust, Noël M., and Ramsey.

Ramsey Corporation, assignee: *See*—
Marien, Melvin W.

Randall, Herbert T., assignor to The Champion Paper and Fibre Company, Hamilton, Ohio. Method and apparatus for handling paper. 2,650,705, Sept. 1.

Randall, Horace, Pawtucket, R. I., assignor to The H. M. H. Co. Crucifix for rosaries, neck chains, or the like. 2,650,445, Sept. 1.

Rauland Corporation, The, assignee: *See*—
Paksner, Serge, and Intise.

Ray-O-Vac Company, assignee: *See*—
Herbert, William S.

Raytheon Manufacturing Company, assignee: *See*—
Brown, William C.

Rasdow, Adolph, New York, N. Y. Snap switch. 2,650,964, Sept. 1.

Redmond Company, Inc., assignee: *See*—
Bohl, Robert C.

Redmond, Robert L., assignor to Automotive Rubber Company, Incorporated, Detroit, Mich. Spreader tool with grooved nose elements. 2,650,735, Sept. 1.

Reheiser, Joseph F., Eau Claire, Wis., assignor to United States Rubber Company, New York, N. Y. Preventing blown in manufacture of pneumatic tires. 2,650,642, Sept. 1.

Reinhardt, Otto K.: *See*—
Winckler, Gunnar A. F., Rose, and Reinhardt.

Rentfrow, James H., Hollister, Calif. Yieldable vineyard hoe attachment for earth-working implements. 2,650,531, Sept. 1.

Renwanz, Roger A., Bound Brook, N. J., assignor to Research Corporation, New York, N. Y. Flexible Pitot-static tube assembly. 2,650,497, Sept. 1.

Research Corporation, assignee: *See*—
Renwanz, Roger A.

Rheem Manufacturing Company, assignee: *See*—
Brown, Dan A., and Hurlbut.

Rice, Chester S.: *See*—
Howard, Alan, Buckland, and Rice.

Rideout, Arthur E., Chicago, Ill., K. B. Holstebroe, Gildersleeve, Conn., and A. L. Johnson, Chicago, Ill., assignors, by mesne assignments, to Emhart Manufacturing Company. Bottle packing machine with flight conveyor for receiving successive rows of articles. 2,650,746, Sept. 1.

Rinne, Elmer W., Steinauer, Nebr. Fuel transferring apparatus. 2,650,747, Sept. 1.

Risley, Roger E., Bradford, Pa., assignor to Dresser Industries, Inc., Cleveland, Ohio. Large diameter coupling. 2,650,840, Sept. 1.

Risser, Ross R., Jr., Bonham, Tex. Hose retraction assembly. 2,650,776, Sept. 1.

Robbins, George W., Arlington, Ind. Wire unwinding spool and supporting structure. 2,650,777, Sept. 1.

Robin, Roger, Lormaison, assignor to Société: Maison Neyret, Paris, France. Warp stop motion for weaving looms and other textile machines. 2,650,623, Sept. 1.

Robins, Samuel D., Lawrence, N. Y. Belt conveyor drive. 2,650,695, Sept. 1.

Robot Laundry Machinery Corporation of California, assignee: *See*—
Harvey, Herbert.

Robotti, Joseph, Great Neck, N. Y. Reed organ wind supply. 2,650,514, Sept. 1.

Robotti, Joseph, Great Neck, N. Y. Wind supply device for musical instruments. 2,650,515, Sept. 1.

Roche, Jack, New Orleans, La. Portable rewinder for paper tape from business machines. 2,650,775, Sept. 1.

Röder, Karl A., Port Rottendorf, near Wurzburg, Germany. Pressure fluid turbine. 2,650,794, Sept. 1.

Rodesci, Nicholas S., Los Angeles, Calif. Dental floss implement. 2,650,598, Sept. 1.

Rohm, Leon M., Miami, Fla. Lifting trailer. 2,650,730, Sept. 1.

Rollins, Lester G., Meriden, N. H., and A. L. Barrett, Franklin, assignors to Joy Manufacturing Company, Pittsburgh, Pa. Disintegrating and gathering chain structure. 2,650,813, Sept. 1.

Ronnoco Export Development Company Limited, assignee, *See*—
Simon, Hans L.

Rook, Louis W., Catarina, Tex. Poultry feeder. 2,650,566, Sept. 1.

Rose, Wilbur H.: *See*—
Winckler, Gunnar A. F., Rose, and Reinhardt.

Rosenak, Stephan S., and A. Saltzman, New York, N. Y. Continuous extracorporeal dialyzer. 2,650,709, Sept. 1.

Rosenberg, David S.: *See*—
Maude, Aylmer H., and Rosenberg.

Rosse, Lucien A., Long Island City, N. Y., assignor to American Type Founders, Inc. Inking mechanism for printing presses. 2,650,537, Sept. 1.

Rossiet, Jean, Geneva, Switzerland. Fuse. 2,650,541, Sept. 1.

Rossknopf, Hans, assignor to H. Oestrich, Decize, Nievre, France. Fluid-cooled blade and heat exchange means therefor. 2,650,803, Sept. 1.

Rotary Seal Company, assignee: *See*—
Meyer, Walter W.

Roth, Elsie E., executrix: *See*—
Roth, Raymond T.

Roth, Raymond T., deceased, Philadelphia, Pa., E. B. Roth and N. Klander, executors of said R. T. Roth. S-shaped electrical connecting and clamping strap. 2,651,028, Sept. 1.

Rubber-Stichting, assignee: *See*—
Schuur, Gerrit.

Rubesch, Frank H., Jim Falls, Wis. Mail holder for mailboxes. 2,650,756, Sept. 1.

Russell, Emil, Culver City, Calif. Spaghetti cooking apparatus. 2,650,536, Sept. 1.

Rust, John B., Montclair, and L. Spialter, Irvington, N. J., assignors of one-half to Montclair Research Corporation, and one-half to Ellis-Foster Company. Esters of silicic acids and making the same. 2,650,934, Sept. 1.

Rust, Noll M., and J. F. Ramsay, Chelmsford, England, assignors, by mesne assignments, to Radio Corporation of America, New York, N. Y. Radio horn. 2,650,985, Sept. 1.

Ruston & Hornsby Limited, assignee: *See*—
Foildon, Geoffrey B. R., and Wigg.

Saltzman, Abraham: *See*—
Rosenak, Stephan S., and Saltzman.

Sammer, Rudolph, assignor of one-half to T. Johnson, Harrisonville, Mo., and one-half to W. A. Harrison. Mounting unit for corn picker elevators. 2,650,723, Sept. 1.

Sample, James H., Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio. Styrene-copolymer and producing the same. 2,650,907, Sept. 1.

Sandoz, A. G., assignee: *See*—
Iscber, Hans.

Scalera, Mario, Somerville, and R. M. Hardy, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Triazine vat dyes. 2,650,920, Sept. 1.

Schadrack, Alfred, assignee: *See*—
Borcovec, Werner.

Schaefer, Alfred J., Stroudsburg, Pa. Rotary blender. 2,650,905, Sept. 1.

Schanley Industries, Inc., assignee: *See*—
Katz, Leon.
Schmidt, Hans.

Schetty, Guido, assignor to J. R. Geigy A. G., Basel, Switzerland. Disazo dyestuffs. 2,650,915, Sept. 1.

Schiller, William G., Segreganett, Mass., assignor to Swank, Inc. End construction for billfolds. 2,650,631, Sept. 1.

Schmidt, Hans, Wuppertal-Vohwinkel, Germany, assignor, by mesne assignments, to Schenley Laboratories, Inc., New York, N. Y. Preparation of hydroxy-carboxylic acids. 2,650,936, Sept. 1.

Schmidt, Jerome H., Burbank, Calif. Garden tool. 2,650,530, Sept. 1.

Schneider, Paul L., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Air circulating apparatus. 2,650,534, Sept. 1.

Schonitzer, Rudolph L., assignee: *See*—
Allen, Edwin L.

Schroeder, Elmer F.: *See*—
Papesch, Viktor, and Schroeder.

Schuftan, Paul M., Richmond Hill, assignor to The British Oxygen Company Limited, London, England. Separation of air. 2,650,483, Sept. 1.

Schultz, Everett M.: *See*—
Sprague, James M., and Schultz.

Schuur, Gerrit, The Hague, assignor to Rubber-Stichting, Delft, Netherlands. Manufacturing shaped articles of rubber hydrochloride. 2,650,389, Sept. 1.

Scott, Charles H., Westport, assignor to The Dorr Company, Stamford, Conn. Sedimentation apparatus. 2,650,707, Sept. 1.

Scovill Manufacturing Company, assignee: *See*—
Knotter, James D.

Searle, G. D., & Co., assignee: *See*—
Cusic, John W.
Papesch, Viktor, and Schroeder.

Seid, Bernard, Clifton, N. J., B. B. Holmes, New York, N. Y., and J. L. Pauly, Hackensack, assignors to Bendix Aviation Corporation, Teterboro, N. J. Fluid flow indicator. 2,650,561, Sept. 1.

Semm, Paul T., Chicago, assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Variable sensitivity control device and circuit for use therein. 2,650,966, Sept. 1.

Senf, Henry R.: *See*—
Martin, William L., Sluts, and Senf.

Sennholtz, Charles E., Chicago, Ill. Chain link. 2,650,470, Sept. 1.

Serrell, Ann E., West Hempstead, N. Y. Playpen for children. 2,650,375, Sept. 1.

Shanahan, Curtis M., Chagrin Falls, Ohio, assignor to Container Corporation of America, Chicago, Ill. Band-type display carton. 2,650,702, Sept. 1.

Shannon, Harry F., Pittsburgh, Pa., assignor to United States Steel Corporation. Method and apparatus for inhibiting roll pickup in continuous annealing of steel strip. 2,650,880, Sept. 1.

Shell Development Company, assignee: *See*—
Engel, Willem F., and Hoog.
Koomc, Jacob, and de Nooijer.
Turner, James R.
Vogel, Charles B.

Shelley, Edwin F., New York, assignor to American Chronoscope Corporation, Mount Vernon, N. Y. Time measurement system. 2,651,022, Sept. 1.

Shemorry, John J., Williston, N. Dak. Auxiliary steering arm stabilizer spring. 2,650,844, Sept. 1.

Shepard, Billy R., and R. B. Crandell, Schenectady, N. Y., assignors to General Electric Company. Electronic apparatus and mounting. 2,651,007, Sept. 1.

Sherwin-Williams Company, The, assignee: *See*—
Sample, James H.

Shively, Roy H., Scranton, Pa. Brake adjusting apparatus. 2,650,681, Sept. 1.

Short, Brooks H., and A. G. Lautzenhiser, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Ignition apparatus. 2,650,561, Sept. 1.

Shortland, Arthur, assignor to Maller Bromley & Co. Limited, Leicester, England. Knitting machine. 2,650,487, Sept. 1.

Showalter, Joseph S., Winter Park, Fla. Adjustable support. 2,650,371, Sept. 1.

Shumaker, Lawrence E., Denver, Colo. Land leveling machine. 2,650,441, Sept. 1.

Shure Brothers, Incorporated, assignee: *See*—
Bauer, Benjamin B., and Gunter.
Gunter, Lee, Jr.

Simon, Hans L., assignor to Ronnoco Export Development Company Limited, London, England. Compressor. 2,650,754, Sept. 1.

Sinclair Refining Company, assignee: *See*—
Case, Everett N.
Woerner, Rudolph C.

Sinclaire, Francis S., Brooklyn, N. Y. Rollet type switch. 2,650,962, Sept. 1.

Singer, Isadore, Chicago, Ill. Flame- and heat-resistant work glove. 2,650,365, Sept. 1.

Singer Manufacturing Company, The, assignee: *See*—
Wendel, Lorenz A.

Skaggs, Arthur G., assignor of one-half to A. M. Kuyudjian, Fresno, Calif. Moistening device for cotton harvesters. 2,650,462, Sept. 1.

Sloanecker, John C., assignor to The Continental Supply Company, Dallas, Tex. Engine filter. 2,650,712, Sept. 1.

Sluts, Ralph J.: *See*—
Martin, William L., Sluts, and Senf.

Smith, A. O., Corporation, assignee: *See*—
Blatz, Albert V.
Carlson, Arthur W.
Hartquist, Donald B.

Smith, Elisabeth J.: *See*—
Grothe, Isabel N., and Smith.

Smith, John J.: *See*—
Mueller, Frank H., and Smith.

Smith, Maradeu C., and O. G. Ely, Richmond, Va., assignors to The Ford Meter Box Company, Inc., Wabash, Ind. Saddle nut and coupling. 2,650,837, Sept. 1.

Smith, S., and Sons (England) Limited, assignee: *See*—
Meredith, Frederick W.
Milsom, Frederick E.

Société à Responsabilite Limitée dite: Société d'Etudes de Machines Speciales, assignee: *See*—
Chambon, Jean L.

Societe d'Installation et d'Appareillage, assignee: *See*—
Pauget, Georges.

Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., assignee: *See*—
Levy, René L.

Société: Maison Neyret, assignee: *See*—
Robin, Roger.

Societe P. E. I. M. Societe Anonyme Holding de Perfectionnements et de Recherches Industrielles et Mecaniques Merch Lez, assignee: *See*—
Jamotte, Georges C. F. J. G.

Soderstrom, Harry W.: *See*—
McPhee, Kenneth H., and Soderstrom.

Soltow, John F., North Royalton, and A. W. Kosie, Brooklyn Village, Ohio. Reeding knife having a reversible and retractable blade. 2,650,422, Sept. 1.

Sommer, Benjamin L., Evanston, Ill. Sectional boat. 2,650,376, Sept. 1.

Sorensen, Leo S., Long Beach, Calif. Oil tool. 2,650,664, Sept. 1.

Spears Wells Machinery Company, Incorporated, assignee: *See*—
Wells, Ira M.

Specialties Development Corporation, assignee: *See*—
Uhl, Arthur W.

Sperry Corporation, The, assignee: *See*—
Frantz, Wilbert P.

Sperry Products, Inc., assignee: *See*—
Van Valkenburg, Howard E., and Cook.

Sperti, George S., Burlington, Ky., assignor to Institutum Divi Thomae Foundation, Cincinnati, Ohio. Cyclical process and apparatus for tenderising meat. 2,650,882, Sept. 1.

Spialter, Leonard: *See*—
Rust, John B., and Spialter.

Spieth, Rudolf, Esslingen-Kennenburg, Germany. Mounting device for antifriction bearings. 2,650,807, Sept. 1.

Spooner, Laurence W., Pittsfield, Mass., assignor to General Electric Company. Coating machine and electrode panel therefor. 2,650,585, Sept. 1.

Sprague Electric Company, assignee: *See*—
Dorst, Stanley O.

Sprague, James M., Drexel Hill, and E. M. Schultz, Glenolden, Pa., assignors to Merck & Co., Inc. 2-keto pyrimidines. 2,650,921, Sept. 1.

Sprague, Owen F., Niagara Falls, assignor to National Lead Company, New York, N. Y. Preparation of titanium tetrachloride. 2,650,873, Sept. 1.

Spreckels Sugar Company, assignee: *See*—
Armer, Austin A.

Spurgeon, Samuel J., Birmingham, Ala. Thrust transmitting retainer for shaft mounted members. 2,650,843, Sept. 1.

Stabile, Vincent A., New York, N. Y. Device for dispensing stacked retaining rings. 2,650,722, Sept. 1.

Stanley, Franklin P., Wilmington, Calif. Christmas tree stand. 2,650,783, Sept. 1.

Steele, Everette, assignee: *See*—
Lange, Bernard A.

Stehling, Chas. H., Company, assignee: *See*—
Stehling, Ralph J.

Stehling, Ralph J., Mequon, assignor to Chas. H. Stehling Company, Milwaukee, Wis. Machine for removing debris from solutions. 2,650,710, Sept. 1.

Stein, Samuel F., Milton, Pa. Garment waistband and making same. 2,650,367, Sept. 1.

Steinbrecker, Freddy, assignor to George Gorton Machine Co., Racine, Wis. Means for mounting machine tool attachments. 2,650,521, Sept. 1.

Sterling Drug Inc., assignee: *See*—
Bennett, Eldred C., and Powell.

Stern, Joseph E., assignee: *See*—
Gravens, John C.

Stevens, George, Chicago, Ill. Coil-winding apparatus. 2,650,768, Sept. 1.

Stewart, William D., Brecksville, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Biologically active compositions. 2,650,876, Sept. 1.

Stibitz, George R., Burlington, Vt. Function unit. 2,650,500, Sept. 1.

Stilmar, Frederic B., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Halogenated aminoanthraquinonyl-oxdiazoles. 2,650,926, Sept. 1.

Stine, Oliver C., Sun Valley, assignor to Lindsay & Wagnild, Inc., Van Nuys, Calif. Cesspool lining machine. 2,650,477, Sept. 1.

Stock, Arthur J., Cleveland, Ohio. Pressurized coal scale. 2,650,816, Sept. 1.

Stohn, Kendall R., Powell, Wyo. Combination bumper sub and safety joint unit. 2,650,797, Sept. 1.

Stohn, Kendall R., Powell, Wyo. Key seat tool for well drilling. 2,650,798, Sept. 1.

Streeter, Ray, Sturgeon, Mo. Self-relocking combination lock. 2,650,491, Sept. 1.

Stromberg-Carlson Company, assignee: *See*—
Kessler, Frank.

Stropnicky, Joseph F., Bellerose, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Mounting for telephone apparatus. 2,650,789, Sept. 1.

Sult, Leonard W.: *See*—
Geyer, Wallace T., Learn, and Sult.

Sun Oil Company, assignee: *See*—
Quist, Harold A.

Super Mold Corporation of California, assignee: *See*—
Glynn, Edwin A.

Suring, Everett C., Gillett, Wis. Fly rod and reel case. 2,650,449, Sept. 1.

Swank, Inc., assignee: *See*—
Schiller, William G.

Swanson, Harry G.: *See*—
Lundberg, John E., and Swanson.

Swanson, Oscar W., Hartford, Conn., assignor to Underwood Corporation, New York, N. Y. Accounting machine having relatively adjustable paper and control carriages. 2,650,759, Sept. 1.

Swihart, John R.: *See*—
Dvorkovitz, Vladimir, and Swihart.

Sylvania Electric Products Inc., assignee: *See*—
Young, Charles A., and Baker.

T. M. M. (Research) Limited, assignee: *See*—
Westall, Arthur.

Tanke, Willard H., La Crosse, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Tractor plow affording adjustable width of cut. 2,650,529, Sept. 1.

Tatelshi, Arthur K., assignor to Audio Tool and Engineering Limited, Toronto, Ontario, Canada. Phonograph with three-speed turntable driving mechanism. 2,650,504, Sept. 1.

Taylor, Halsey W., assignor to Halsey W. Taylor Company, Warren, Ohio. Water cooler. 2,650,900, Sept. 1.

Taylor, Halsey W., Company, assignee: *See*—
Taylor, Halsey W.

Taylor, Harlan D., Manchester, assignor to United Aircraft Corporation, East Hartford, Conn. Boundary layer control for aircraft. 2,650,781, Sept. 1.

Taylor, Paul H.: *See*—
Wales, George F., and Taylor.

Taylor, Raymond G., Jr., A. B. McElroy, and R. C. Davis, assignors to The Guiberson Corporation, Dallas, Tex. Hoisting hook with a pivoted closure. 2,650,403, Sept. 1.

Tefft, Ivan D.: *See*—
Howland, William R., and Tefft.

Teubner, Edmund E., Philadelphia, assignor to Method-X Company, Lansdale, Pa. Method and apparatus for electrically disintegrating metallic material. 2,650,979, Sept. 1.

Thayer, John M. and M. M., Fort Belvoir, Va. Holder for paper disposal bags. 2,650,784, Sept. 1.

Thayer, Mary M.: *See*—
Thayer, John M. and M. M.

Thrailkill, Elmer W., North Kansas City, Mo. Dust collector. 2,650,674, Sept. 1.

Tibbals, A. Todd, assignee: *See*—
Tibbals, Charles E.

Tibbals, Charles E., Oneida, Tenn., assignor of fifty per cent to A. T. Tibbals, Columbus, Ohio. Spline affixing device for parquetry blocks. 2,650,627, Sept. 1.

Tidd, Edwin B., Mount Prospect, assignor to Bell & Gossett Company, Morton Grove, Ill. Boiler with control to prevent overheating. 2,650,376, Sept. 1.

Tide Water Associated Oil Company, assignee: *See*—
Nigh, George W.

Todd, Frank A., McKeesport, Pa. Combination bottle cap and pourer. 2,650,734, Sept. 1.

Tognola, Tullio, Sidney, assignor to Bendix Aviation Corporation, New York, N. Y. Electrical apparatus. 2,651,005, Sept. 1.

Tolen, Paul J., Los Angeles, Calif. Slide rule. 2,650,762, Sept. 1.

Torcheux, Emile L. G., and E. A. H. Honoré, Paris, France. Localization system. 2,651,032, Sept. 1.

Torelli, Armand H., assignee: *See*—
Torelli, Eileen.

Torelli, Eileen, assignor of one-half to A. H. Torelli, Los Angeles, Calif. Knot retainer. 2,650,390, Sept. 1.

Townsend, Claude M., Birmingham, England. Antifrictional bearing of the load ball type. 2,650,865, Sept. 1.

True, Charles H., Chicago, Ill., assignor to Combustion Engineering, Inc. Method and apparatus for brazing aluminum fins to steel tubes. 2,650,420, Sept. 1.

Trumbo, Benjamin F., Uniontown, Ky. Gate and reinforcement therefor. 2,650,443, Sept. 1.

Turner, James R., Concord, assignor to Shell Development Company, San Francisco, Calif. Device for distributing mixtures of vapors and liquid. 2,650,556, Sept. 1.

Twiford, Irving W., Moorcroft, Wyo. Leg rest for vehicle seats. 2,650,634, Sept. 1.

Udylite Corporation, The, assignee: *See*—
Davis, John V.
Davis, John V., Chill, and Pianowski.

Uhl, Arthur W., Inwood, N. Y., assignor to Specialties Development Corporation, Belleville, N. J. Indicator for apparatus adapted to detect suspended matter in fluids. 2,651,029, Sept. 1.

Uhlig, Henry C., Clifton, assignor, by mesne assignments, to Howe Twister Corporation, Jersey City, N. J. Flexible elongated member tensioning device. 2,650,779, Sept. 1.

Ulm, Reign C., Schererville, assignor to Graver Tank & Mfg. Co., Inc., East Chicago, Ind. Floating roof. 2,650,738, Sept. 1.

Underwood Corporation, assignee: *See*—
Anderson, Walter A.
Helmond, William F.
Hoffman, Jacob N.
Mederos, Thomas S., Jr.
Swanson, Oscar W.
Von Hacht, William H.

Union Carbide and Carbon Corporation, assignee: *See*—
Jacobson, Wilgot J., and Behnke.

Union Steel & Manufacturing Company Limited, The, assignee: *See*—
Hampton, Ronald.

Union Stock Yards & Transit Company, assignee: *See*—
Brown, Edwin H.

United Aircraft Corporation, assignee: *See*—
Hoadley, Henry H.
Taylor, Harlan D.

United Shoe Machinery Corporation, assignee: *See*—
Eppler, Andrew, Jr.
Jorgensen, Bernhardt.

United States Rubber Company, assignee: *See*—
Buckwalter, Howard M.
Eger, Ernst.
Hiatt, Herbert D., McCord, and Peterson.
Linhorst, Erwin F.
Reheiser, Joseph F.

United States Steel Corporation, assignee: *See*—
Campbell, Louis T.
Findlater, Stevenson.
McConaghey, Philip H.
Shannon, Harry F.

Valentine, Charles C., Seymour, Tenn. Story pole holder. 2,650,787, Sept. 1.

Van Blaricom, Lester O., and J. A. Martin, assignors to The Clemson Agricultural College of South Carolina, Clemson, S. C. Color-stable red pepper composition and producing the same. 2,650,883, Sept. 1.

Van der Horst Corporation of America, assignee: *See*—
Van der Horst, Kuno L.

Van der Horst, Kuno L., Portville, assignor to Van der Horst Corporation of America, Olean, N. Y. Electroplating on aluminum. 2,650,901, Sept. 1.

Van Guilder, Walter, River Forest, Ill., assignor to General Mills, Inc. Oil dropper with bracket for attachment to food mixers. 2,650,741, Sept. 1.

Vannatta, Russell E., Cincinnati, Ohio. Device for converting one form of rotary motion into another form of rotary motion. 2,650,505, Sept. 1.

Van Valkenburg, Howard E., Candlewood Isle, and E. G. Cook, Stratford, assignors to Sperry Products, Inc., Danbury, Conn. Transducer control. 2,651,012, Sept. 1.

Vape-O-Plate Company, assignee: *See*—
Howland, William R., and Tefft.

Veaux, Henri M., St. Leu la Foret, France. System of changing the frequency band occupied by a telephonic transmission. 2,650,949, Sept. 1.

Verwaltungsgesellschaft der Werkzeugmaschinenfabrik Oerlikon, assignee: *See*—
Lippert, Hanns, and Hepperle.

Viboud, Albert, assignor to Etablissements Merlin & Gerin, Societe Anonyme, Grenoble, France. Thermorelay with indirectly heated bimetallic strip. 2,650,907, Sept. 1.

Vickers Incorporated, assignee: *See*—
Bujak, Henry C.

Voelcker, Billy N., Shreveport, La. Penholder. 2,650,570, Sept. 1.

Vogel, Charles B., Houston, Tex., assignor to Shell Development Company, San Francisco, Calif. Well logging. 2,651,027, Sept. 1.

Volker, William, and Company of Missouri, Inc., assignee: *See*—
Cumming, George T.

Von Hacht, William H., Bronxville, assignor to Underwood Corporation, New York, N. Y. Automatic skip-tab tabulating mechanism for accounting machines. 2,650,758, Sept. 1.

Voorhorst, Bertha T., Washington, D. C. Copyholder for typists. 2,650,566, Sept. 1.

W. H. O. Alfalfa Milling Company, assignee: *See*—
Oberwortman, Walter H.

Waldron, Benjamin F., Corpus Christi, Tex. Fluid end pump head. 2,650,868, Sept. 1.

Wales, George F., Kenmore, and P. H. Taylor, North Tonawanda, N. Y., said Taylor assignor to said Wales. Apparatus for nibbling. 2,650,663, Sept. 1.

Walker, Harry G., Langhorne, assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Wood preservation with dimethyl tetrachlorophthalate. 2,650,893, Sept. 1.

Wallace, Frank C., North Hollywood, Calif., assignor to Collins Radio Company, Cedar Rapids, Iowa. Disk edge deburring machine. 2,650,458, Sept. 1.

Wallenmeyer, John C., F. G. McDonald, and R. L. Henry, assignors to Mead Johnson & Company, Evansville, Ind. Spray dried vitamin A and D emulsion. 2,650,896, Sept. 1.

Waller, Vern L., Tacoma, Wash. Engine performance indicator. 2,650,559, Sept. 1.

Walton, Alfred L., Blackpool, England. Appliance for use in sharpening or resharpening safety-razor blades. 2,650,457, Sept. 1.

Wansink, Leo P., Altadena, and C. L. Haynes, Flintridge, assignors to C. F. Braun & Co., Alhambra, Calif. Bubble cap and riser assembly. 2,650,900, Sept. 1.

Warner Electric Brake & Clutch Company, assignee: *See*—
Ostmal, John G.

Wasser, Joseph A., Kirkwood, assignor to Missouri Automatic Control Corporation, St. Louis, Mo. Electromagnetic valve. 2,650,617, Sept. 1.

Waterhouse, Lewis O., Oxford, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Electric filling stop motion for narrow ware looms. 2,650,624, Sept. 1.

Watrous, Ward W., Jr., Chatham, assignor to Chatham Electronics Corporation, Newark, N. J. Heat shielded cathode. 2,650,907, Sept. 1.

Watrous, Ward W., Jr., Chatham, assignor to Chatham Electronics Corporation, Newark, N. J. Baffle structure in gaseous discharge devices. 2,650,998, Sept. 1.

Watson, Raymond L., Elkridge, Md. Collapsible chair. 2,650,652, Sept. 1.

Watter, Michael, and W. S. Eggert, Jr., assignors to The Budd Company, Philadelphia, Pa. Composite door for automobiles. 2,650,857, Sept. 1.

Weaver, Albert J., San Antonio, Tex. Light control and ventilated awning. 2,650,894, Sept. 1.

Weaver, Ira A., Springfield, Ill., assignor, by mesne assignments, to Gisholt Machine Company, Madison, Wis. Pickup device for use with balance testing machines. 2,650,961, Sept. 1.

Webster, William: *See*—
Gasson, Edward J., Millidge, and Webster.

Weesner, William E.: *See*—
Gamrath, Harry R., and Weesner.

Weil, Jay D., Lexington, and W. L. Nutter, Jr., Georgetown, Ky. Balling gun. 2,650,593, Sept. 1.

Weinstein, Herman E., Schenectady, N. Y. Davit. 2,650,378, Sept. 1.

Weisinger, Joseph G., Newark, N. J. Taximeter. 2,650,757, Sept. 1.

Welch, Jerome B., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Safety control for welders. 2,650,977, Sept. 1.

Wells, Ira M., assignor to Spears Wells Machinery Company, Incorporated, Oakland, Calif. Coupling device for vehicles. 2,650,838, Sept. 1.

Welsh Manufacturing Company, assignee: *See*—
Miner, Frederic I.

Wendel, Lorenz A., Somerville, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Enclosed clutch-brake motor. 2,650,995, Sept. 1.

Wendt, Harry C., Nahant, Mass., assignor to General Electric Company. Harmonic error compensator. 2,651,010, Sept. 1.

Westall, Arthur, Accrington, assignor to T. M. M. (Research) Limited, Rossendale, England. Mounting for spindles. 2,650,465, Sept. 1.

Western Condensing Company, assignee: *See*—
Peebles, David D., and Girvin.

Western Electric Company, Incorporated, assignee: *See*—
Adams, George P.
Gray, John E., III, and Martin.

Westinghouse Electric Corporation, assignee: *See*—
Barr, Robert L., and Hills.
Garrison, John W., and Lovett.

Wettstein, Albert: *See*—
Miescher, Karl, Wettstein, and Heer.

Wheeler, John D.: *See*—
Hume, Horace D., and Wheeler.

White, John: *See*—
Mansfield, Wilfred P., and White.

White, William J., North Miami Beach, Fla. Hinging means. 2,650,258, Sept. 1.

Whitman, Hyman L., East Bridgewater, Mass., assignor to The B. F. Goodrich Company, New York, N. Y. Corrective footwear. 2,650,436, Sept. 1.

Whitworth, Henry C., Scott City, Kans. Cattle chute. 2,650,567, Sept. 1.

Wickwire, Arthur M., North Canton, and R. M. Kessel, Massillon, Ohio, assignors to Automatic Steel Products, Inc., Wilmington, Del. Centrifugal clutch. 2,650,655, Sept. 1.

Wietsel, Herman L., Dayton, Ohio. Trimming comb. 2,650,421, Sept. 1.

Wigg, Raymond B.: *See*—
Feilden, Geoffrey B. R., and Wigg.

Wilkinson, Orville L., Tujunga, and O. A. Wright, Burbank, Calif., assignors, by mesne assignments, to Hydro-Aire, Inc. Solenoid operated pilot valve and main gate valve. 2,650,616, Sept. 1.

Williams, J. H., & Co., assignee: *See*—
Johnson, Walter J., and Ertell.

Williamson, Herschel M.: *See*—
Bridwell, John W., Coker, and Williamson.

Wilson, John H., Wichita Falls, Tex. Turret lathe. 2,650,417, Sept. 1.

Wilson, Walter H., Mansfield, Ohio. Multiplex fuse plug. 2,650,968, Sept. 1.

Winckler, Gunnar A. F., Milford, W. H. Rose, Hamden, and O. K. Reinhardt, West Haven, assignors to Olin Industries, Inc., New Haven, Conn. Battery. 2,650,946, Sept. 1.

Woerner, Rudolph C., Homewood, Ill., assignor to Sinclair Refining Company, New York, N. Y. Solvent extraction of asphaltic residues. 2,650,887, Sept. 1.

Wolf, Ruth, New York, N. Y. Cushioned eyeglass case. 2,650,700, Sept. 1.

Wood, Frank T., Barbados, British West Indies, Dough rolling apparatus. 2,650,582, Sept. 1.

Woodruff, Ben H., Chicago, Ill. Control of electrical supply for dental apparatus. 2,650,990, Sept. 1.

Woodruff, Harold B.: *See*—
McDaniel, Lloyd E., and Woodruff.

Woodward, Joseph H., Miami, Fla. Air circulator. 2,650,755, Sept. 1.

Wooldridge Manufacturing Company, assignee: *See*—
Quartullo, Orpheus F.

Woolery Machine Company, assignee: *See*—
Woolery, Wilbur F.

Woolery, Wilbur F., St. Paul, assignor to Woolery Machine Company, Minneapolis, Minn. Flange-type safety wheel. 2,650,854, Sept. 1.

Woolven, John L., St. Vital, Manitoba, Canada. Decoration for Christmas trees. 2,650,874, Sept. 1.

Worthington Corporation, assignee: *See*—
Henderson, Robert M.

Wright, Otis A.: *See*—
Wilkinson, Orville L., and Wright.

Wurdinger, Lawrence J., Mount Angel, Oreg. Vine holder. 2,650,454, Sept. 1.

Wyss, John, assignor, by mesne assignments, to Frank Leonard, New Castle, Pa. Forming press automatic feed. 2,650,822, Sept. 1.

Yellott, John I., Baltimore, Md., assignor to Bituminous Coal Research, Inc., Washington, D. C. Method and apparatus for the separation of particulate material from entraining gaseous fluids. 2,650,675, Sept. 1.

Yingst, Paul V., Norwood, assignor to The Post-Glover Electric Company, Cincinnati, Ohio. Electrical contactor. 2,650,966, Sept. 1.

Young, Arthur M., assignor to Bell Aircraft Corporation, Buffalo, N. Y. Pivotally mounted rotating wing for aircraft. 2,650,667, Sept. 1.

Young, Charles A., Gloucester, and H. E. Baker, Danvers, assignors to Sylvania Electric Products Inc., Salem, Mass. Lead-in wire orienting apparatus. 2,650,634, Sept. 1.

Young, Donald P., Sanderstead, England, assignor to The Distillers Company Limited, Edinburg, Scotland. Manufacture of glycols. 2,650,940, Sept. 1.

Zaroff, William J., Philadelphia, Pa., and Ladislav Boor, Bethesda, Md., assignors to the United States of America as represented by the Secretary of the Army. Apparatus for measuring feet. 2,650,518, Sept. 1.

Zeller, Theodore J., Allentown, Pa., and S. H. Bingham, New York, N. Y. Folding stretcher. 2,650,373, Sept. 1.

Zelley, Walter G., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Procedure and bath for plating on aluminum. 2,650,886, Sept. 1.

Zenith Radio Corporation, assignee: *See*—
Adler, Robert.

Zimmerman, Robert N., Tucson, Ariz. Engine low oil indicator. 2,650,960, Sept. 1.

Zöllner, Hans: *See*—
Leuchs, Friedrich, and Zöllner.

Zwick, Kurt, Munich, assignor to Hans Deckter, Munich-Solln, and F. W. Deckel, Post Tutzing, Germany. Hold-down clamp. 2,650,523, Sept. 1.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 1ST DAY OF SEPTEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Amino-coumarin-sulfonates. F. Ackermann. Re. 23,703, Sept. 1.
Balance, adjustment, Direct current. M. Maron. Re. 23,707, Sept. 1.
Diagonistic compositions. J. Kamlet. Re. 23,705, Sept. 1.
Load equalizing device. M. S. De Lay. Re. 23,704, Sept. 1.
Loose-leaf binder. W. McKowen. Re. 23,708, Sept. 1.
Pressure cooker, Automatic gas and electric. I. Page. Re. 23,709, Sept. 1.
Refrigerant expansion valve. H. T. Lange. Re. 23,706, Sept. 1.

LIST OF PLANT INVENTIONS

African violet plant. D. W. Ulery. 1,214, Sept. 1.
Camellia plant. W. E. Lammerts. 1,215, Sept. 1.
Plum tree. L. C. Edwards. 1,213, Sept. 1.

LIST OF DESIGN INVENTIONS

Air compressor unit. L. C. Miller. 170,330, Sept. 1.
Armchair or the like, Desk top. D. Chapman and R. G. Reineman. 170,304, Sept. 1.
Armchair or the like, Tablet. D. Chapman and R. G. Reineman. 170,303, Sept. 1.
Armrest. J. B. Maxsulle. 170,327, Sept. 1.
Ash tray. J. V. Vevirit. 170,345, Sept. 1.
Ash tray and pipe knocker, Combined. D. Courtenay. 170,308, Sept. 1.
Bottle. S. N. Barbee. 170,298, Sept. 1.
Box for crayons or similar article. W. R. Huston. 170,321, Sept. 1.
Brooch or similar article. M. Boucher. 170,300, Sept. 1.
Bumper jack for automotive vehicles, Fluid pressure operated. C. E. Branick. 170,301, Sept. 1.
Case, Spectacle. R. F. E. Stegeman. 170,343, Sept. 1.
Chair, Folding desk. R. C. Moore. 170,331, Sept. 1.
Clock casing. F. Lux and H. D. Beerbaum. 170,324, Sept. 1.
Cupholder attachment. K. H. MacKay. 170,325, Sept. 1.
Dispensing machine, Soft drink. P. Destun. 170,310, Sept. 1.
Doll. M. P. Jones. 170,322, Sept. 1.
Doll. P. M. Mathews. 170,326, Sept. 1.
Earring or the like. A. Philippe. 170,337, Sept. 1.
End support for books and the like. M. W. Clement and H. L. Stevenson. 170,306, Sept. 1.
Engine priming device. G. E. Franck. 170,313, Sept. 1.
Flashlight. R. A. Gottlieb. 170,316, Sept. 1.
Glass, Drinking. E. J. Foster. 170,312, Sept. 1.
Handbag. F. X. Hiltenbrand. 170,318, Sept. 1.
Handbag. F. Negila. 170,332, Sept. 1.
Handbag. O. Wolf. 170,346, Sept. 1.
Holder, Cigarette. G. B. Holge. 170,320, Sept. 1.
Knife or the like. M. A. Noyes. 170,334, Sept. 1.
Lamp for mounting atop an emergency vehicle, Warning. J. A. McDermott. 170,328, Sept. 1.
Lamp, Table. H. C. Lindemann. 170,323, Sept. 1.
Mixer, Food and beverage hand. F. Collura. 170,307, Sept. 1.
Ornament, Automobile. W. H. and H. Hawkins. 170,317, Sept. 1.
Pail, Insulated. P. Cabot and H. M. Piker. 170,302, Sept. 1.
Pair of spectacles. J. Gaspari. 170,314, Sept. 1.
Piston reamer and motor support, Combined. J. A. Riordan. 170,339, Sept. 1.
Plate or the like. G. Parker and B. L. Miller. 170,336, Sept. 1.
Projection apparatus. J. Y. Taylor. 170,344, Sept. 1.
Receptacle for newspapers and the like. H. E. Curtis and G. L. Egbert. 170,309, Sept. 1.
Ring or the like. E. L. Schenck. 170,341, Sept. 1.
Sewing machine frame. M. S. Park. 170,335, Sept. 1.
Stencil machine, Silk screen. J. A. Black. 170,299, Seot. 1.
Stocking. P. R. Nestler. 170,333, Sept. 1.
Stocking, Lady's. F. Hoffecker. 170,319, Sept. 1.
Stole. R. W. Salny. 170,340, Sept. 1.
Stool, Utility. D. W. Doherty. 170,311, Sept. 1.
Table, Adjustable rotatable television. W. Gerber. 170,315, Sept. 1.
Table, Physician's examining. E. W. Claus. 170,305, Sept. 1.
Trailer. W. Aschenbrenner. 170,297, Sept. 1.
Tray, Serving. W. H. Randall. 170,338, Sept. 1.
Venetian blind cover. M. E. Skwark. 170,342, Sept. 1.
Vision testing device. J. T. Armbruster. 170,296, Sept. 1.
Workbench, cabinet, and overhead trolley support, Combined. H. O. Miller. 170,329, Sept. 1.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 1ST DAY OF SEPTEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accelerometer. R. W. Ketchledge. 2,650,991, Sept. 1.
Accounting machine having relatively adjustable paper and control carriages. O. W. Swanson. 2,650,759, Sept. 1.
Adjustable clamp. A. J. Dalpiaz. 2,650,404, Sept. 1.
Adjustable support. J. B. Showalter. 2,650,371, Sept. 1.
Adjusting the concentration of ammonium nitrate solutions. T. B. Martin and B. Edmunds, Jr. 2,650,660, Sept. 1.
Aerials, Wireless. P. Mandel. 2,650,984, Sept. 1.
Air circulating apparatus. P. L. Schneider. 2,650,534, Sept. 1.
Air circulator. J. H. Woodward. 2,650,755, Sept. 1.
Air cooling for internal-combustion engines. R. Daub. 2,650,578, Sept. 1.
Aircraft, All-wing. J. K. Northrop and W. J. Cerny. 2,650,780, Sept. 1.
Aircraft control apparatus, Electric. F. W. Meredith. 2,651,015, Sept. 1.
Aircraft with jet-driven rotor, Rotary-wing. R. Dorand and P. Gabriet. 2,650,666, Sept. 1.
Alarm, Strip tracking. P. H. McConaghey. 2,651,031, Sept. 1.
Alkyl 4-hydroxy-3-ethoxybenzoate and making same, Higher. I. A. Pearl. 2,650,933, Sept. 1.
Alkyl monoamine salts of pentachlorophenol useful for controlling mites. G. M. Le Fave. 2,650,892, Sept. 1.
Amplifier, Photoelectric feedback operated. G. A. Fink. 2,651,019 Sept. 1.
Amplifier, Transformer-coupled pulse-train. W. L. Martin, R. J. Sluts, and H. R. Senf. 2,650,955, Sept. 1.
Amplifier utilizing deflection of an electron beam. R. A. Heising. 2,650,956, Sept. 1.
Amplifier with double frequency discriminator, Electronic. E. R. Chapman. 2,651,014, Sept. 1.
Antenna. E. J. Ehrbar and R. W. Cronshey. 2,650,983, Sept. 1.
Apparatus for bending tubing. H. C. Jennings, Jr. 2,650,636, Sept. 1.
Apparatus for manufacturing cement-asbestos board. W. and J. Bernard. 2,650,524, Sept. 1.
Apparatus for measuring feet. W. J. Zaroff and L. Boor. 2,650,518, Sept. 1.
Apparatus for nibbling. G. F. Wales and P. H. Taylor. 2,650,663, Sept. 1.
Apparatus for producing metal parts. H. G. Kellegg. 2,650,635, Sept. 1.
Apparatus for straightening sheet metal. H. D. Paxson. 2,650,637, Sept. 1.
Apparatus for the manufacture of roofing tiles and the like. G. W. A. Agar. 2,650,408, Sept. 1.
Apparatus for the se'ection of seeds or similar material. J. Musil. 2,650,704, Sept. 1.
Apparatus for uncurling fabric edges. J. H. Pope and N. W. Carter. 2,650,413, Sept. 1.
Appliance for use in sharpening or resharpening safety-razor blades. A. L. Walton. 2,650,457, Sept. 1.
Arcless controlling switch. A. P. Gauvreau. 2,650,970, Sept. 1.
Armrest attachment for vehicle seats. D. E. Brown. 2,650,650, Sept. 1.
Artificial femoral head having an X-ray marker. H. G. R. Drew. 2,650,588, Sept. 1.
Assembling phonograph translating devices. L. Gunter, Jr. 2,650,953, Sept. 1.
Attachment for chairs and other structures. C. E. Choate. 2,650,651, Sept. 1.
Automatic amplitude balancing circuits. W. P. Frantz. 2,651,033, Sept. 1.
Automatic cutoff valve. J. D. Fore. 2,650,863, Sept. 1.
Auxiliary steering arm stabilizer spring. J. J. Shemorry, 2,650,844, Sept. 1.
Baffle member for combustion chambers. W. R. Howland and I. D. Tefft. 2,650,555, Sept. 1.
Baffle structure in gaseous discharge devices. W. W. Watrous, Jr. 2,650,998, Sept. 1.
Baking device. E. Dornbush. 2,650,553, Sept. 1.
Ba'ance starter mechanism. L. De Negre. 2,650,468, Sept. 1.
Balancing means for floated gyroscopes. J. E. Lundberg and H. G. Swanson. 2,650,502, Sept. 1.
Ball-throwing machine, Centrifugal. J. M. Farré, Jr. 2,650,585, Sept. 1.
Band clip having closing worm gear. C. W. Cheney. 2,650,405, Sept. 1.
Basic esters of phenothiazine-10-carboxylic acid and salts thereof. J. W. Cusic. 2,650,919, Sept. 1.
Bathroom construction. R. Evans. 2,650,968, Sept. 1.
Battery. G. A. F. Winckler, W. H. Rose, and O. K. Reinhardt. 2,650,946, Sept. 1.
Battery, Primary. L. S. Dunham. 2,650,947, Sept. 1.
Bearing: *See*—
Multiple race ball bearing.
Bearing. G. J. Knudson. 2,650,866, Sept. 1.
Bearing of the load ball type, Antifrictional. C. M. Townsend. 2,650,865, Sept. 1.
Bed and playpen for children, Car. R. J. Pierce. 2,650,374, Sept. 1.
Bed lifter. A. B. Bell. 2,650,795, Sept. 1.
Belt adjuster. K. R. Montgomery. 2,650,506, Sept. 1.
Benzaldehyde-thiosemicarbazone, Substituted. L. Katz. 2,650,937, Sept. 1.
Berth structure. R. G. Cudini. 2,650,370, Sept. 1.
Biologically active compositions. W. D. Stewart. 2,650,876 Sept. 1.
Blade and heat exchange means therefor, Fluid-cooled. H. Rosskopf. 2,650,803, Sept. 1.
Blast gun, Fluid pressure actuated. J. E. C. Nesham. 2,650,615, Sept. 1.
Board: *See*—
Collapsible ironing board. Network calculating board.
Boat-davit of the rotation and gravity type, Trestle. D. Barricelli. 2,650,377, Sept. 1.
Boat, Sectional. B. L. Semmer. 2,650,376, Sept. 1.
Bobby pin. R. J. Portaro. 2,650,596, Sept. 1.
Body for delivery trucks. W. O. Mashburn, Jr., G. A. Broetzler, and K. Kinnaird. 2,650,856, Sept. 1.
Boiler with control to prevent overheating. E. B. Tidd. 2,650,576, Sept. 1.
Bottle cap and pourer, Combination. F. A. Todd. 2,650,724, Sept. 1.
Bottle packing machine with flight conveyer for receiving successive rows of articles. A. E. Rideout, K. B. Holstebroe, and A. L. Johnson. 2,650,746, Sept. 1.
Boundary layer control for aircraft. H. D. Taylor. 2,650,781, Sept. 1.
Boundary layer control in blowers. H. H. Hoadley. 2,650,752, Sept. 1.
Bowl ejecting mechanism for carry-type scrapers. O. F. Quartullo. 2,650,440, Sept. 1.
Box and cover, Meter. E. G. Johansson. 2,651,008, Sept. 1.
Brake: *See*—
Fishing line brake. Ground brake.
Brake adjusting apparatus. R. H. Shively. 2,650,681, Sept. 1.
Brake mechanism with removable shoes. J. H. Coombes and W. Mann. 2,650,680, Sept. 1.
Brassière with breast straps having adjustment at sides. J. J. Lo Cascio. 2,650,363, Sept. 1.
Brazing aluminum fins to steel tubes, Method and apparatus for. C. H. True. 2,650,420, Sept. 1.
Bromocholadienes, Manufacture of. K. Miescher, A. Wettstein, and J. Heer. 2,650,930, Sept. 1.
Brush, Water driven fountain. W. Fleming. 2,650,381, Sept. 1.
Bubble cap and riser assembly. L. P. Wansink and C. L. Haynes. 2,650,809, Sept. 1.
Buffing pad cushion having passages for circulating cooling air through the cushion to the buffing pad. F. De Michel. 2,650,385, Sept. 1.
Bumper guard, Auto. P. H. Lepponen. 2,650,851, Sept. 1.
Bumper sub and safety joint unit, Combination. K. R. Stohn. 2,650,797, Sept. 1.
Bunch building method and apparatus. E. J. Berry. 2,650,709, Sept. 1.
Butter dish with pat slicing means. R. T. Epperson. 2,650,428, Sept. 1.
Cable grip, Interwoven mesh type. D. L. Kellems. 2,650,400, Sept. 1.
Calculating machine. A. B. Machado. 2,650,761, Sept. 1.
Calculator, Tax. G. M. MacGinnis. 2,650,763, Sept. 1.
Cap lifting machine. E. C. Bennett and C. Powell. 2,650,748, Sept. 1.
Carbonator cooler. A. J. Cohen, S. Levine, M. Caminear, and S. B. Price. 2,650,808, Sept. 1.
Carburetor. C. J. Green. 2,650,582, Sept. 1.
Carriage tabulating mechanism. J. N. Hoffman. 2,650,689, Sept. 1.
Carton. E. C. Goers. 2,650,751, Sept. 1.
Carton, Band-type display. C. M. Shanahan. 2,650,702, Sept. 1.
Cartridge, Blasting. K. C. Bugg. 2,650,540, Sept. 1.

Case: *See*—
Cushioned eyeglass case. Spectacle case.
Fly rod and reel case.
Case with mirror thereon, Lipstick. M. P. Girard. 2,650,597, Sept. 1.
Catch for necklaces and the like, Separable. R. C. Bangs. 2,650,398, Sept. 1.
Cathode structure for electron-discharge devices. R. Adler. 2,650,999, Sept. 1.
Center spring mounting. W. E. Martin. 2,650,818, Sept. 1.
Centrifugal clutch. A. M. Wickwire and R. M. Kessel. 2,650,685, Sept. 1.
Chain: *See*—
Disintegrating and conveying chain.
Chain link. C. E. Sennholtz. 2,650,470, Sept. 1.
Chain saw and oiling system therefor, Engine driven. E. C. Kiekhaefer. 2,650,628, Sept. 1.
Chain structure, Disintegrating and gathering. L. G. Rollins and A. L. Barrett. 2,650,813, Sept. 1.
Chains, Manufacture of flexible. M. Marquardt. 2,650,469, Sept. 1.
Chair: *See*—
Collapsible chair. Folding chair.
Chair. H. M. Granlund. 2,650,645, Sept. 1.
Chair structure. W. E. Nordmark and N. C. Poel. 2,650,648, Sept. 1.
Chair with movable padded seat, Contour. L. C. Malco. 2,650,644, Sept. 1.
Chair with rear shelf. C. E. Choate. 2,650,658, Sept. 1.
Check-out device. P. L. Newbold. 2,650,678, Sept. 1.
Christmas tree stand. F. P. Stanley. 2,650,783, Sept. 1.
Chute, Cattle. H. C. Whitworth. 2,650,567, Sept. 1.
Chute device, Dual load and unload. R. T. MacKay. 2,650,729, Sept. 1.
Circuit: *See*—
Regulating control and regenerative circuit.
Circuit interrupter, Bushing type. M. Kuwayama. 2,650,972, Sept. 1.
Circuit regulator and contact assembly therefor, Finger type. A. M. Cohen. 2,650,957, Sept. 1.
Circulating device, Ventilating and air. P. E. Hord. 2,650,535, Sept. 1.
Clamp: *See*—
Adjustable clamp. Holddown clamp.
Clasp pin eyeglass holder. M. Nemser. 2,650,397, Sept. 1.
Cleaner for engine cooling systems. F. Hoke. 2,650,602, Sept. 1.
Cleaning of well perforations. H. M. Greene. 2,650,539, Sept. 1.
Clip: *See*—
Dash liner clip. Worm geared band clip.
Clipper construction. D. M. Phillips. 2,650,423, Sept. 1.
Clipper, Electric hair. E. M. Brown and E. H. Forse. 2,650,993, Sept. 1.
Clutch: *See*—
Centrifugal clutch. Magnetic fluid clutch.
Coating compositions. C. L. Betsch and F. H. Detrick. 2,650,900, Sept. 1.
Coating machine and electrode panel therefor. L. W. Spooner. 2,650,565, Sept. 1.
Coil-winding apparatus. G. Stevens. 2,650,768, Sept. 1.
Coin holder. C. J. Donovan. 2,650,699, Sept. 1.
Coin novelty meter. F. G. Castner. 2,650,608, Sept. 1.
Cold cathode illuminating assembly and insulator housing therefor. S. C. Miller. 2,651,024, Sept. 1.
Collapsible chair. R. L. Watson. 2,650,652, Sept. 1.
Collapsible ironing board. R. E. Johnson. 2,650,442, Sept. 1.
Collared shafts, Making. C. A. Matheny and W. J. Myers. 2,650,418, Sept. 2.
Comb, Trimming. H. L. Wietzel. 2,650,421, Sept. 1.
Compartmented container. C. Mytinger. 2,650,630, Sept. 1.
Compressor. H. L. Simon. 2,650,754, Sept. 1.
Connector: *See*—
Faucet connector.
Container: *See*—
Compartmented container.
Knockdown shipping container.
Container-dispenser for poisoned bait. E. C. Karstedt. 2,650,451, Sept. 1.
Continuous extracorporeal dialyzer. S. S. Rosenak and A. Saltzman. 2,650,709, Sept. 1.
Control device. W. H. Kreamer. 2,650,414, Sept. 1.
Control mechanism. L. J. Moulton. 2,650,580, Sept. 1.
Control of electrical supply for dental apparatus. B. H. Woodruff. 2,650,990, Sept. 1.
Controlling character width or spacing in apparatus for composing or reproducing typographical and like matter, Means for. H. G. Croucher. 2,650,697, Sept. 1.
Conversion of carbohydrates to polyhydric alcohols. J. Koome and C. N. J. de Nooijer. 2,650,941, Sept. 1.
Conveyer drive, Belt. S. D. Robins. 2,650,695, Sept. 1.
Conveyer, Reciprocating. S. J. Gedris. 2,650,696, Sept. 1.
Cooker, Dry rendering. F. J. Bilek. 2,650,807, Sept. 1.
Cooking apparatus, Spaghetti. E. Russell. 2,650,536, Sept. 1.
Cooler: *See*—
Carbonator cooler. Water cooler.
Cooling device for sewing machine needles. F. L. Hauser. 2,650,557, Sept. 1.
Copolymers of vinylidene cyanide with alkenyl esters of monobasic acids. H. Gilbert, F. F. Miller, and V. L. Folt. 2,650,911, Sept. 1.
Copyholder for typists. B. T. Voorhorst. 2,650,568, Sept. 1.
Copyholders. R. T. Adkins and R. J. Kuschel. 2,650,569, Sept. 1.
Cotton-picking machine. O. F. Kerr 2,650,461, Sept. 1.
Counting ring utilising cold cathode tubes. T. S. Mederos, Jr. 2,651,006, Sept. 1.
Coupling: *See*—
Large diameter coupling.
Coupling device for vehicles. I. M. Wells. 2,650,833, Sept. 1.
Cover: *See*—
Wheel cover. Wheel housing cover.
Crane, Building block handling. A. Palmer. 2,650,718, Sept. 1.
Crank arm for sliding doors, Throwout. S. B. Haseltine. 2,650,392, Sept. 1.
Crop loader, Trailer type. H. D. Hume. 2,650,690, Sept. 1.
Crucifix for rosaries, neck chains, or the like. H. Randall. 2,650,445, Sept. 1.
Curtain rod structure. L. C. and V. S. Brose. 2,650,714, Sept. 1.
Curve scriber. V. Debs. 2,650,429, Sept 1.
Cushioned eyeglass case. R. Wolf. 2,650,700, Sept. 1.
Cutter: *See*—
Sod cutter.
Cyanide ion in production of vitamin B_{12}, L. E. McDaniel and H. B. Woodruff. 2,650,896, Sept. 1.
Cyclical process and apparatus for tenderising meat. G. S. Sperti. 2,650,882, Sept. 1.
Dash liner clip. O. J. Poupitch. 2,650,516, Sept. 1.
Davit. H. E. Weinstein. 2,650,378, Sept. 1.
Deburring machine, Disk edge. F. C. Wallace. 2,650,458, Sept. 1.
Decoration for Christmas trees. J. L. Woolven. 2,650,874, Sept. 1.
Dental floss implement. N. S. Rodesci. 2,650,598, Sept. 1.
Device for adjustably supporting cameras or the like. N. S. Hulstein. 2,650,788, Sept. 1.
Device for converting one form of rotary motion into another form of rotary motion. R. E. Vannatta. 2,650,505, Sept. 1.
Device for detecting unsafe condition of bridges. J. B. Bear. 2,650,560, Sept. 1.
Device for dispensing stacked retaining rings. V. A. Stabile. 2,650,722, Sept. 1.
Device for distributing mixtures of vapors and liquid. J. R. Turner. 2,650,556, Sept. 1.
Device for intermittently stopping the motion of a strip of material. J. L. Chambon. 2,650,823, Sept. 1.
Device for making injections. H. N. Love. 2,650,591, Sept. 1.
Device for measuring horizontal and vertical angles. E. L. Callahan. 2,650,431, Sept. 1.
Diaphragm for pressure regulators. C. H. Flubacker. 2,650,618, Sept. 1.
Diaphragm pump. R. T. Cornelius. 2,650,545, Sept. 1.
Diary and marital calculator, Woman's. Z. L. Pirssel. 2,650,764, Sept. 1.
Differential resistor. De W. C. Clintsman. 2,650,507, Sept. 1.
Direct current electric power transmission system. F. Busemann. 2,651,016, Sept. 1.
Disazo dyestuffs. H. Iscber. 2,650,916, Sept. 1.
Disazo dyestuffs. G. Schetty. 2,650,915, Sept. 1.
Dish, Serving. F. La Greca. 2,650,485, Sept. 1.
Disintegrating and conveying chain. J. F. Joy. 2,650,812, Sept. 1.
Dispenser: *See*—
Gummed tape dispenser.
Dispenser for granular materials. C. B. Overbaugh. 2,650,742, Sept. 1.
Dispensing mechanism, Tape. A. P. Krueger. 2,650,433, Sept. 1.
Display card holder. E. R. Coyle and J. V. Cox. 2,650,444, Sept. 1.
Display stand. C. O. Larson. 2,650,717, Sept. 1.
Disubstituted derivatives of 6-amino-1,2,3,4-tetrahydro-2,4-pyrimidinediones. V. Papesch and E. F. Schroeder. 2,650,922, Sept. 1.
Disubstituted derivatives of 2-thio-6-amino-1,2,3,4-tetrahydro-2,4-pyrimidinediones. V. Papesch. 2,650,924, Sept. 1.
Door construction for tumbler type washing machines. P. P. Glassey. 2,650,490, Sept. 1.
Door control mechanism. E. L. Allen. 2,650,846, Sept. 1.
Door control, Swinging. W. S. Edwards. 2,650,386, Sept. 1.
Door for automobiles, Composite. M. Watter and W. S. Eggert, Jr. 2,650,857, Sept. 1.
Dough rolling apparatus. F. T. Wood. 2,650,552, Sept. 1.
Drawworks feed control. J. G. Abraham. 2,650,796, Sept. 1.
Driver for spools or bobbins. E. G. Crooks. 2,650,770, Sept. 1.
Durability test device. J. H. Bowen, Jr. 2,650,493, Sept. 1.
Dust collector. E. W. Thrailkill. 2,650,674, Sept. 1.
Dynamic pyrolytic plating apparatus. A. O. Fink. 2,650,564, Sept. 1.

Electric switch. K. C. Allison. 2,650,959, Sept. 1.
Electric switch. E. N. Jacobi. 2,650,958, Sept. 1.
Electrical switch. E. N. Jacobi. 2,650,973, Sept. 1.
Electrical apparatus. T. Tognola. 2,651,005, Sept. 1.
Electrical connection for distributors. H. V. Elliott. 2,651,025, Sept. 1.
Electrical contactor. P. V. Yingst. 2,650,966, Sept. 1.
Electrical converter. A. W. La Marche. 2,651,018, Sept. 1.
Electrical switch. A. J. Dawe. 2,650,971, Sept. 1.
Electrically conducting laminated glass. R. A. Gaiser and J. H. Boicey. 2,650,976, Sept. 1.
Electrically disintegrating metallic material, Method and apparatus for. E. E. Teubner. 2,650,979, Sept. 1.
Electrically insulated conductor and production thereof. S. O. Dorst. 2,650,975, Sept. 1.
Electrode of carbon. F. Leuchs and H. Zöllner. 2,650,943, Sept. 1.
Electrodeposition on magnesium and magnesium-base alloys. W. F. Higgins. 2,650,902, Sept. 1.
Electromagnetic friction device. J. G. Oetzel. 2,650,682, Sept. 1.
Electromagnetic valve. J. A. Wasser. 2,650,617, Sept. 1.
Electron-discharge system. W. C. Brown. 2,651,001, Sept. 1.
Electronic apparatus and mounting. B. R. Shepard and R. B. Crandell. 2,651,007, Sept. 1.
Electronic counting and/or selecting arrangement. J. R. Acton. 2,651,004, Sept. 1.
Electronic memory device. J. T. Potter. 2,650,830, Sept. 1.
Electroplating on aluminum. K. L. van der Horst. 2,650,901, Sept. 1.
Electrostatic precipitator. R. L. Barr and E. G. Hills. 2,650,672, Sept. 1.
Elevator for a portion of a vehicle bed. R. O. Bill. 2,650,724, Sept. 1.
Enclosed clutch-brake motor. L. A. Wendel. 2,650,995, Sept. 1.
End bell assembly for dynamoelectric machines. F. V. Forse and G. N. Neff. 2,650,992, Sept. 1.
End construction for bilifolds. W. G. Schiller. 2,650,631, Sept. 1.
Engine filter. J. C. Slonneger. 2,650,712, Sept. 1.
Engine low oil indicator. R. N. Zimmerman. 2,650,960, Sept. 1.
Engine mounting means, especially means for mounting engines beneath railway passenger cars. A. G. Dean. 2,650,548, Sept. 1.
Engine performance indicator. V. L. Waller. 2,650,559, Sept. 1.
Epoxides, Manufacture of. E. J. Gasson, A. F. Millidge, and W. Webster. 2,650,927, Sept. 1.
Esters of silicic acids and making the same. J. B. Rust and L. Spialter. 2,650,934, Sept. 1.
Etching aluminum and aluminum base alloys. V. Dvorkovitz and J. R. Swihart. 2,650,875, Sept. 1.
Extruder head. J. F. Eckels and A. E. Eckels, Jr. 2,650,551, Sept. 1.
Fabric and manufacture, Pile. J. Crawford. 2,650,621, Sept. 1.
Fastener: *See*—
Plastic slide fastener.
Weatherproof covering closure fastener.
Fastening device. C. J. Dalley. 2,650,845, Sept. 1.
Faucet connectors. H. E. Hirschland. 2,650,838, Sept. 1.
Fault detector. J. B. Hays, Jr. 2,651,021, Sept. 1.
Feeder: *See*—
Poultry feeder.
Feeder for fodder cutters. W. H. Oberwortman. 2,650,745, Sept. 1.
Feeding of magnetic sheet material. A. Fewler. 2,650,824, Sept. 1.
Fender attachment for vehicle instrument panels, Passenger protecting. R. R. Gonsett. 2,650,835, Sept. 1.
Filler cap loosening wrench. O. C. Nystul. 2,650,606, Sept. 1.
Filling end separator for multiple shuttle looms. F. J. Leard. 2,650,622, Sept. 1.
Filming luminescent screen. S. Pakswer and P. C. Intino. 2,650,884, Sept. 1.
Filter: *See*—
Engine filter.
Firearm, Automatic. H. Lippert and E. Hepperle. 2,650,520, Sept. 1.
Fire responsive mechanism. M. F. Peters. 2,650,665, Sept. 1.
Fishing line brake. S. H. Lichtig. 2,650,448, Sept. 1.
Fishing line guide. R. L. Johnson. 2,650,447, Sept. 1.
Fishing lure. H. F. Grathwohl. 2,650,450, Sept. 1.
5 and 10 drum flush unit. R. L. Kaye. 2,650,601, Sept. 1.
Flange-type safety wheel. W. F. Woolery. 2,650,854, Sept. 1.
Flexible elongated member tensioning device. H. C. Uhlig. 2,650,779, Sept. 1.
Floating roof. E. C. Ulm. 2,650,738, Sept. 1.
Flow controller for granular solids. W. R. King. 2,650,693, Sept. 1.
Flowmeter with heated resistance bridge circuit, Fluid. W. G. Middleton and K. R. More. 2,650,496, Sept. 1.
Flue construction, Water heater. A. W. Carlson. 2,650,575, Sept. 1.
Fluid flow indicator. B. Seid, B. B. Holmes, and J. L. Pauly. 2,650,561, Sept. 1.
Fly rod and reel case. E. C. Suring. 2,650,449, Sept. 1.
Folding chair. L. Gothner. 2,650,653, Sept. 1.
Folding machine for laundry purposes. E. J. Howlett. 2,650,821, Sept. 1.
Food product. A. M. Erickson. 2,650,880, Sept. 1.
Footwear, Corrective. H. L. Whitman. 2,650,438, Sept. 1.
Fork and finger lift attachment, Combination. D. E. Hartsuist. 2,650,732, Sept. 1.
Forming press automatic feed. J. Wyss. 2,650,822, Sept. 1.
Fruit picker device. L. L. Bernheim. 2,650,464, Sept. 1.
Fruit product, Manufacture of a compounded. J. H. Forkner. 2,650,881, Sept. 1.
Fuel control, Jet engine. K. J. Knudsen. 2,650,471, Sept. 1.
Fuel transferring apparatus. E. W. Rinne. 2,650,747, Sept. 1.
Function unit. G. R. Stibitz. 2,650,500, Sept. 1.
Furniture provided with drawers. H. Holderegger. 2,650,871, Sept. 1.
Furniture, Reclining article of. A. Lorenz. 2,650,649, Sept. 1.
Fuse. J. Rosselet. 2,650,541, Sept. 1.
Game apparatus, Variable racing. A. F. Burkardt. 2,650,628, Sept. 1.
Garbage can holder. G. S. Platt. 2,650,786, Sept. 1.
Garden tool. J. H. Schmidt. 2,650,530, Sept. 1.
Garment waistband and making same. S. F. Stein. 2,650,867, Sept. 1.
Gas flow control apparatus. A. U. Bryant. 2,650,607, Sept. 1.
Gas pressure regulator resistant to hum. W. J. Jacobsson and E. Behnke. 2,650,455, Sept. 1.
Gate: *See*—
Sash gate.
Gate and reinforcement therefor. B. F. Trumbo. 2,650,443, Sept. 1.
Gauge: *See*—
Micrometer height gauge. Multipurpose depth gauge.
Gauge. A. Brandt. 2,650,434, Sept. 1.
Gauging device, Tire. E. A. Glynn. 2,650,437, Sept. 1.
Gear: *See*—
Manual and hydraulic power actuated steering gear.
Generator: *See*—
Periodic-wave generator.
Resonating combustion power gas generator.
Generator with removable top cooling dome. J. J. Bahn. 2,650,994, Sept. 1.
Glass cutting machine. N. H. Klages. 2,650,430, Sept. 1.
Glove, Flame- and heat-resistant work. I. Singer. 2,650,365, Sept. 1.
Glycols, Manufacture of. D. P. Young. 2,650,940, Sept. 1.
Grease gun. O. A. Dirksen. 2,650,744, Sept. 1.
Grille guard. H. Poncher and J. E. Poncher. 2,650,849, Sept. 1.
Ground brake. P. Durkin. 2,650,679, Sept. 1.
Guard for automobile grilles and radiators. R. G. Perrigo. 2,650,850, Sept. 1.
Guitar steel. R. L. Miller. 2,650,513, Sept. 1.
Gum ethers and process therefor. O. A. Moe. 2,650,917, Sept. 1.
Gummed tape dispenser. T. H. Krueger. 2,650,774, Sept. 1.
Gun, Bailing. J. D. Weil and W. L. Nutter, Jr. 2,650,593, Sept. 1.
Halogenated amino-anthraquinonyl-oxiazoles. F. B. Stilmar. 2,650,926, Sept. 1.
Hand covering for use in association with handlebars. I. N. Grothe and E. J. Smith. 2,650,361, Sept. 1.
Handling paper, Method and apparatus for. H. T. Randall. 2,650,705, Sept. 1.
Harmonic error compensator. H. C. Wentd. 2,651,010, Sept. 1.
Harp swivel. P. Chilo. 2,650,982, Sept. 1.
Heat exchanger. T. A. Collito. 2,650,801, Sept. 1.
Heat exchanger. L. H. Fritzberg. 2,650,790, Sept. 1.
Heat exchanger, Counter current. A. Huet. 2,650,802, Sept. 1.
Heat shielded cathode. W. W. Watrous, Jr. 2,650,997, Sept. 1.
Heat-treatment of coagulated thermoplastic polymer latices. H. M. Hutchinson. 2,650,912, Sept. 1.
Heating apparatus, Electric. H. N. Ipsen. 2,650,944, Sept. 1.
Hexachlorocyclopentadiene, Production of. A. H. Maude and D. S. Rosenberg. 2,650,942, Sept 1.
Hexachlorocyclopentenone preparation. E. T. McBee and J. S. Newcomer. 2,650,939, Sept. 1.
Hinging means. W. J. White. 2,650,388, Sept. 1.
Hoe attachment for earth-working implements, Yieldable vineyard. J. H. Rentfrow. 2,650,531, Sept. 1.

Hoist for ladders, Hydraulic. K. E. and M. E. Chesney. 2,650,750, Sept. 1.
Hoisting hook with a pivoted closure. R. G. Taylor, Jr., A. B. McElroy, and R. C. Davis. 2,650,403, Sept. 1.
Holddown clamp. K. Zwick. 2,650,523, Sept. 1.
Holder: *See*—
Clasp pin eyeglass holder.
Coin holder.
Display card holder.
Garbage can holder.
Story pole holder.
Vine holder.
Wire holder.
Holder for container of pulverant material with means to puncture said container and dispense said material. A. Hammerstein. 2,650,740, Sept. 1.
Holder for mailboxes, Mail. F. H. Rubesch. 2,650,756, Sept. 1.
Holder for paper disposal bags. J. M. and M. M. Thayer. 2,650,784, Sept. 1.
Holder or puller, Pipe. M. B. Phelps. 2,650,852, Sept. 1.
Hopper car for storage and transportation of finely divided materials. E. R. Aller, J. M. Gleason, and L. Matolin. 2,650,726, Sept. 1.
Horn, Radio. N. M. Rust and J. F. Ramsay. 2,650,985, Sept. 1.
Hose retraction assembly. R. E. Risser, Jr. 2,650,776, Sept. 1.
Hydraulic valve. J. A. Herbst. 2,650,609, Sept. 1.
Hydraulically operated mechanism for raising dump truck bodies. H. C. Einstein. 2,650,859, Sept. 1.
Hydroxy-carboxylic acids, Preparation of. H. Schmidt. 2,650,936, Sept. 1.
Ice-making machine, Clear. T. Kattis. 2,650,479, Sept. 1.
Igniter and making same. C. C. Crockett. 2,650,488, Sept. 1.
Ignition and starter system, Push button automobile engine. T. H. Heath. 2,650,989, Sept. 1.
Ignition apparatus. B. H. Short and A. G. Lautzenhiser. 2,650,581, Sept. 1.
Implement attachment for tractors, Power operated. A. L. A. Morgen. 2,650,528, Sept. 1.
Impregnated type tungsten and molybdenum catalysts, Preparation of. W. F. Engel and H. Hoog. 2,650,906, Sept. 1.
Improvement in hollow cone spray nozzle. C. H. Carr. 2,650,860, Sept. 1.
Indicator: *See*—
Engine low oil indicator.
Engine performance indicator.
Fluid flow indicator.
Indicator for apparatus adapted to detect suspended matter in fluids. A. W. Uhl. 2,651,029, Sept. 1.
Infant restraining device. L. and D. S. Moore. 2,650,590, Sept. 1.
Inhibiting roll pickup in continuous annealing of steel strip, Method and apparatus for. H. F. Shannon. 2,650,889, Sept. 1.
Inking mechanism for printing presses. L. A. Rosse. 2,650,537, Sept. 1.
Invalid lift, Motor vehicle. T. R. Hoyer and V. Hildemann. 2,650,725, Sept. 1.
Iodinating proteins and their derivatives. W. R. Graham, Jr., G. O. Kohler, and R. D. Hoover. 2,650,914, Sept. 1.
Isolation of cholesterol from wool wax alcohols. C. L. Hewett. 2,650,929, Sept. 1.
Jolly balance. E. F. Linhorst. 2,650,494, Sept. 1.
Kickout device. S. Findlater. 2,650,694, Sept. 1.
Kiln. P. Howden. 2,650,814, Sept. 1.
Knife having a removable guard, Butcher. J. J. Kalmon. 2,650,424, Sept. 1.
Knife having a reversible and retractable blade, Roofing. J. F. Soltow and A. W. Kozle. 2,650,422, Sept. 1.
Knitting machine. A. Shortland. 2,650,487, Sept. 1.
Knitting machine, Warp. H. Hartung, Sr. 2,650,486, Sept. 1.
Knockdown shipping container. W. T. Geyer, R. H. Learn, and L. W. Sult. 2,650,737, Sept. 1.
Knot retainer. E. Torelli. 2,650,399, Sept. 1.
Ladder. R. O. Balogh. 2,650,749, Sept. 1.
Lamp harp extension. P. Chilo. 2,650,981, Sept. 1.
Lamp unit for automobiles, Signal. W. H. Dupree, Jr. 2,651,028, Sept. 1.
Land leveling machine. L. E. Shumaker. 2,650,441, Sept. 1.
Landing unit for aircraft. W. B. Fehring. 2,650,782, Sept. 1.
Large diameter coupling. F. T. Newell. 2,650,839, Sept. 1.
Large diameter coupling. R. E. Risley. 2,650,840, Sept. 1.
Lasting machine. B. Jorgensen. 2,650,379, Sept. 1.
Latch for casement windows. R. A. Olson. 2,650,847, Sept. 1.
Lathe embodying improved pressure bar actuating mechanism, Veneer. J. T. Latimer. 2,650,629, Sept. 1.
Lead-in wire orienting apparatus. C. A. Young and H. E. Baker. 2,650,634, Sept. 1.
Leg rest for vehicle seats. I. W. Twiford. 2,650,654, Sept. 1.
Level controller. E. C. Amidon. 2,650,606, Sept. 1.
Lifter: *See*—
Bed lifter.
Light control and ventilated awning. A. J. Weaver. 2,650,394, Sept. 1.
Lining machine, Cesspool. O. C. Stine. 2,650,477, Sept. 1.
Loading apparatus, Material. C. N. Bebinger. 2,650,692, Sept. 1.
Loading machine, Coal. C. B. Fry. 2,650,691, Sept. 1.
Localization system. E. L. G. Torcheux and E. A. H. Honoré. 2,651,032, Sept. 1.
Lock: *See*—
Self-relocking combination lock.
Lock mechanism. E. N. Jacobi. 2,650,492, Sept. 1.
Locking lug for the center tube of a spool reel or warp beam, Torque resisting. R. V. Olson. 2,650,778, Sept. 1.
Low-temperature absorption refrigeration. F. E. Gilmore. 2,650,480, Sept. 1.
Lubricating apparatus. V. G. Klein. 2,650,677, Sept. 1.
Lubrication of wobble plate internal-combustion engines. G. C. F. J. G. Jamotte. 2,650,676, Sept. 1.
Machine and process for producing latex foam continuously. J. Marco. 2,650,804, Sept. 1.
Machine for applying pressure to shoe bottoms. A. Eppler, Jr. 2,650,380, Sept. 1.
Machine for producing Venetian blind slats. G. T. Cumming. 2,650,640, Sept. 1.
Machine for removing debris from solutions. R. J. Stehling. 2,650,710, Sept. 1.
Machine for straightening and polishing metal round section bars or tubes. R. Hampton. 2,650,639, Sept. 1.
Machine for the manufacture of buffs and similar articles. L. W. MacFarland. 2,650,861, Sept. 1.
Machine tool. D. H. Montgomery. 2,650,416, Sept. 1.
Magnetic fluid clutch. J. F. English, Jr., and A. J. Hornfeck. 2,650,684, Sept. 1.
Magnetron. L. Greenwald. 2,651,003, Sept. 1.
Manual and hydraulic power actuated steering gear. C. F. Hammond. 2,650,669, Sept. 1.
Manufacturing shaped articles of rubber hydrochloride. G. Schuur. 2,650,389, Sept. 1.
Massage appliance with heating device. W. Borcovec. 2,650,587, Sept. 1.
Mat for automotive vehicles, Floor. T. H. Peirce. 2,650,855, Sept. 1.
Means for supporting metal clips. J. M. Donalson. 2,650,978, Sept. 1.
Measuring and dispensing device with container cutting and attaching means, Volumetric. I. S. Boydstun. 2,650,739, Sept. 1.
Measuring and indicating the tension in strip passing between the stands of a rolling mill, Means for. W. J. Norton. 2,650,495, Sept. 1.
Mechanical spring. O. W. Marlow. 2,650,819, Sept. 1.
Metal surface treatment. R. Pottberg. 2,650,888, Sept. 1.
Metal-to-ceramic seal. K. H. McPhee and H. W. Soderstrom. 2,650,683, Sept. 1.
Metallic soaps of fatty acids, Preparing. L. M. Kebrich and A. R. Pitrot. 2,650,932, Sept. 1.
Meter: *See*—
Coin novelty meter.
Method and apparatus utilizing compressional wave energy in the upper sonic and supersonic range for washing textiles. S. Goldwasser. 2,650,872, Sept. 1.
Method and device for visual observation of dense-phase suspensions. F. Bonar and C. D. Pears. 2,650,562, Sept. 1.
Micrometer height gauge. B. Gessler. 2,650,436, Sept. 1.
Milk cooling and distributing means. E. Mathiesen. 2,650,427, Sept. 1.
Milk product and process. D. D. Peebles and M. D. Girvin. 2,650,879, Sept. 1.
Milling machine, Turn. L. E. Godfriaux. 2,650,522, Sept. 1.
Mine supporting structure. K. Gerlach. 2,650,475, Sept. 1.
Mixer with hook attachment, Dough. E. Hooper. 2,650,806, Sept. 1.
Mixing valve. H. Barnett. 2,650,604, Sept. 1.
Mixing valve. J. Marco. 2,650,792, Sept. 1.
Modified drilling fluids. R. G. Fordyce and M. Baer. 2,650,905, Sept. 1.
Moistening device for cotton harvesters. A. G. Skaggs. 2,650,462, Sept. 1.
Mold for head wall construction W. E. Mitchell. 2,650,411, Sept. 1.
Mold form. W. E. Mitchell. 2,650,410, Sept. 1.
Molding concrete products. C. C. Dubbs. 2,650,412, Sept. 1.
Molding concrete products, Process and apparatus for. C. C. Dubbs. 2,650,409, Sept. 1.
Molecular filtration. M. T. Cichelli. 2,650,670, Sept. 1.
Monoalkyl dinaphthyl phosphate esters. H. R. Gamrath and W. E. Weesner. 2,650,935, Sept. 1.
Mop having a mop holding and securing bolt. W. A. Ballinger. 2,650,382, Sept. 1.
Mortar applicator having a flexible dispensing tube. E. N. Floyd. 2,650,743, Sept. 1.
Motor: *See*—
Enclosed clutch-brake motor.
Motor control system responsive to fluid pressure signal. Electric. A. J. Hornfeck. 2,651,011, Sept. 1.
Motor or pump, Rotary fluid. A. F. Hickman. 2,650,573, Sept. 1.
Mounting: *See*—
Center spring mounting.
Mounting device for antifriction bearings. R. Spieth, 2,650,867, Sept. 1.

Mounting for spindles. A. Westall. 2,650,465, Sept. 1.
Mounting for telephone apparatus. J. F. Stropnicky. 2,650,789, Sept. 1.
Mounting machine tool attachments, Means for. F. Steinbrecker. 2,650,521, Sept. 1.
Mounting unit for corn picker elevators. R. Sammer. 2,650,723, Sept. 1.
Mowing machine, Reel type. C. D. and W. C. Courson. 2,650,463, Sept. 1.
Multidirectional inertia-operated safety device for vehicle chairs. W. R. Neahr and R. L. Davis. 2,650,655, Sept. 1.
Multiple race ball bearing. J. M. Mergen. 2,650,864, Sept. 1.
Multiplex fuse plug. W. H. Wilson. 2,650,988, Sept. 1.
Multipurpose depth gauge. L. L. Kidd. 2,650,435, Sept. 1.
N,N'-piperazine dicarbamate of 2,4-dihydroxyphenylthiol. V. Ouperoff-Urne. 2,650,925, Sept. 1.
Network calculating board. G. W. Bills. 2,650,760, Sept. 1.
Nut and coupling, Saddle. M. C. Smith and O. G. Ely. 2,650,837, Sept. 1.
Oil discharge passage arrangement for high-speed bearings. S. P. Brickett. 2,650,671, Sept. 1.
Oil gauge rod wiper. P. L. McCluskey. 2,650,384, Sept 1.
Oil dropper with bracket for attachment to food mixers. W. Van Guilder. 2,650,741, Sept. 1.
Oil tool. L. S. Sorenson. 2,650,664, Sept. 1.
1-alkenyl-5-alkyl-6-amino-1,2,3,4-tetrahydro - 2,4 - pyrimidinediones and derivatives thereof. V. Papesch. 2,650,923, Sept. 1.
Oscillating rail for work-immersion machines. J. V. Davis, C. W. Chill, and L. J. Pianowski. 2,650,904, Sept. 1.
Oven, Bake. J. Faulds. 2,650,554, Sept. 1.
Pad: *See*—
Recoil pad.
Pad for infants, Knee. C. Musgrave. 2,650,362, Sept. 1.
Pad for ophthalmic mountings, Nose. F. I. Miner. 2,650,519, Sept. 1.
Paper guide for accounting machines. W. A. Anderson. 2,650,688, Sept. 1.
Paper jogger. H. E. Cooper. 2,650,625, Sept. 1.
Pasteurizer, Agitated milk. M. Popow. 2,650,980, Sept. 1.
Pavement finishing machine, Concrete. D. C. Jones. 2,650,525, Sept. 1.
Penholder. B. N. Voelcker. 2,650,570, Sept. 1.
Periodic-wave generator. R. E. De Cola. 2,651,002, Sept. 1.
Phonograph with three-speed turntable driving mechanism. A. K. Tateishi. 2,650,504, Sept. 1.
Photoelectric batching weigher. O. S. Carlisa. 2,650,790, Sept. 1.
Photographic method for making geographic maps. G. E. A. Falk. 2,650,517, Sept. 1.
Photographic print treating apparatus. A. W. Cape. 2,650,527, Sept. 1.
Photographic shutter with flash synchronizer. K. Gebele. 2,650,526, Sept. 1.
Pickling apparatus, Continuous. L. T. Campbell. 2,650,599, Sept. 1.
Pickup device for use with balance testing machines. I. A. Weaver. 2,650,961, Sept. 1.
Pillow adjuster for automobile mechanic's creeper. R. J. Lowe. 2,650,372, Sept. 1.
Pilot valve and main gate, Solenoid operated. O. L. Wilkinson and O. A. Wright. 2,650,616, Sept. 1.
Pin: *See*—
Bobby pin.
Pinticket manufacturing and attaching machine. R. W. Clauss. 2,650,536, Sept. 1.
Pipe protector. R. E. Pflaumer. 2,650,819, Sept. 1.
Piperazine estrogen salt and separation procedure. D. Beall, G. A. Grant, and P. E. Legault. 2,650,918, Sept. 1.
Piston ring. M. W. Marien. 2,650,869, Sept. 1.
Plastic slide fastener. J. N. Kusmick. 2,650,402, Sept 1.
Plating apparatus, Pusher type automatic. J. V. Davis. 2,650,600, Sept. 1.
Playpen for children. A. E. Serrell. 2,650,375, Sept. 1.
Plow affording adjustable width of cut, Tractor. W. H. Tanke. 2,650,529, Sept. 1.
Plug: *See*—
Multiplex fuse plug.
Spark plug.
Pneumatic drive and damping device therefor. A. Amstutz. 2,650,572, Sept. 1.
Popcorn service. O. B. Curry. 2,650,736, Sept. 1.
Portable attachment for dog race tracks. J. S. Alessio. 2,650,826, Sept. 1.
Potentiometer. N. S. Hime. 2,650,974, Sept. 1.
Poultry feeder. L. W. Rook. 2,650,566, Sept. 1.
Power transmission. H. C. Bujak. 2,650,484, Sept. 1.
Preservative impregnation of wood. M. S. Hudson. 2,650,885, Sept. 1.
Pressure regulating device. H. Mackie. 2,650,605, Sept. 1.
Pressure regulating valve. K. C. Mosier and G. K. Mead. 2,650,456, Sept. 1.
Preventing blows in manufacture of pneumatic tires. J. F. Reheiser. 2,650,642, Sept. 1.
Primary dry cell. W. S. Herbert. 2,650,945, Sept. 1.
Printing plates, producing etched. M. R. Boyer. 2,650,877 Sept. 1.
Printing plates, producing etched. M. R. Boyer and A. W. Grumbine. 2,650,878, Sept. 1.
Procedure and bath for plating on aluminum. W. G. Zelley. 2,650,886, Sept. 1.
Protection of cellulose against heat aging. H. M. Buckwalter. 2,650,891, Sept. 1.
Protection of molybdenum against oxidation. J. W. Garrison and A. B. Lovett. 2,650,903, Sept. 1.
Protective apparatus for direct current transmission lines. F. Bussemann. 2,651,017, Sept. 1.
Protector: *See*—
Pipe protector.
Puller: *See*—
Sleeve puller.
Pump: *See*—
Diaphragm pump.
Pump and motor hydraulic system and control therefor. J. W. Bridwell, M. M. Coker, and H. M. Williamson. 2,650,473, Sept. 1.
Pump assembly, Rotary. J. B. Parsons. 2,650,544, Sept. 1.
Pump for liquids, High-pressure radial piston. G. Pauget. 2,650,543, Sept. 1.
Pump head, Fluid end. B. F. Waldron. 2,650,868, Sept. 1.
Pumping equipment, Fluid lift. D. A. MacDonald. 2,650,574, Sept. 1.
Pure bromo-e-amino anthraquinones, preparation of. G. E. Genta. 2,650,928, Sept. 1.
Pylon. J. K. Hamilton. 2,650,827, Sept. 1.
Railway car wheel. H. Michaels and J. F. Fleck. 2,650,853, Sept. 1.
Raising and lowering diffuser tubes, Means for. C. H. Nordell. 2,650,810, Sept. 1.
Ramp, Swingable trailer. W. E. Martin. 2,650,727, Sept. 1.
Range construction, Cabinet. H. E. Mills. 2,650,586, Sept. 1.
Reactively actuated acousto-electric transducer. S. M. Church. 2,650,954, Sept. 1.
Recipe file. R. Heilman. 2,650,594, Sept. 1.
Recoil pad. N. A. Bivens. 2,650,448, Sept. 1.
Record changing mechanism for phonographs. H. J. Fortune and M. W. Mortimer. 2,650,831, Sept. 1.
Recording and reproducing head. B. B. Bauer and L. Gunter, Jr. 2,650,962, Sept. 1.
Recording system, Remotely-controlled. R. Kobler. 2,650,951, Sept. 1.
Red pepper compositions and producing the same, Color-stable. L. O. Van Blaricom and J. A. Martin. 2,650,883, Sept. 1.
Reed organ wind supply. J. Robotti. 2,650,514, Sept. 1.
Reflex velocity modulated discharge device. E. G. Linder. 2,651,000, Sept. 1.
Regulating control and regenerative circuit. R. L. Jaeschke. 2,650,906, Sept. 1.
Regulator: *See*—
Voltage regulator.
Release for motion-picture camera mechanism. A. I. Murray. 2,650,501, Sept. 1.
Removing asphaltenes from crude oil. E. N. Case. 2,650,898, Sept. 1.
Removing metallic contaminants from hydrogenated oils. D. W. Dron and F. A. Lindsey, Jr. 2,650,931, Sept. 1.
Rendering a pneumatic tire inner tube substantially static-free. H. D. Hiatt, G. P. McCord, and L. C. Peterson. 2,650,641, Sept. 1.
Resonating combustion power gas generator. W. P. Mansfield and J. White. 2,650,472, Sept. 1.
Rest for cigarettes, cigars, and pipes. J. J. Harkins. 2,650,595, Sept. 1.
Retarding means for roll paper dispensers. W. I. Fanning. 2,650,773, Sept. 1.
Rewinder for paper tape from business machines, Portable. J. Roche. 2,650,775, Sept. 1.
Riboflavin-monoborate and preparation thereof. R. D. Fine, III. 2,650,894, Sept. 1.
Ring: *See*—
Piston ring.
Rod anchor, Dowel. S. J. Crockett. 2,650,476, Sept. 1.
Roll assembly for continuous strip pickling tanks. L. R. Howes. 2,650,603, Sept. 1.
Roll oiling apparatus for use with roll-making machines. W. Bingaman. 2,650,563, Sept. 1.
Roller type switch. F. S. Sinclaire. 2,650,962, Sept. 1.
Rolling contact extensometer. C. H. Adams. 2,650,432, Sept. 1.
Rotary blender. A. J. Schaefer. 2,650,805, Sept. 1.
Row marker. W. W. Gelling. 2,650,533, Sept. 1.
Rule, Slide. P. J. Tolen. 2,650,762, Sept. 1.
S-shaped electrical connecting and clamping strap. R. T. Roth, E. E. Roth, and N. Klauder. 2,651,026, Sept. 1.
Safety control for welders. J. B. Welch. 2,650,977, Sept. 1.
Safety gas valve. D. A. Brown and J. H. Hurlbut. 2,650,766, Sept. 1.
Sampling adapter for receptacles. H. A. Quist. 2,650,499, Sept. 1.
Sampling machine. A. A. Armer. 2,650,496, Sept. 1.
Sand handling apparatus. G. J. Koren. 2,650,396, Sept. 1.
Sash gate. J. J. E. Mesnager. 2,650,474, Sept. 1.
Saw sharpening device. C. E. Copley. 2,650,508, Sept. 1.
Scale, Pressurized coal. A. J. Stock. 2,650,816, Sept. 1.
Scale, Weighing. J. L. and T. O. Metcalfe. 2,650,891, Sept. 1.

Scalpel. G. A. Montelius. 2,650,426, Sept. 1.
Scoop for rotary snowplows. A. F. Hickman. 2,650,439, Sept. 1.
Screen structure. O. G. Coward. 2,650,393, Sept. 1.
Screens, Producing metal mesh. H. E. Holman. 2,650,900, Sept. 1.
Seal. W. W. Meyer. 2,650,841, Sept. 1.
Sealing means for slotted cylinders. C. C. Mitchell. 2,650,571, Sept. 1.
Sealing mechanism for wrapping machines. A. R. Fuchs. 2,650,648, Sept. 1.
Seat and back, Resiliently mounted tiltable. W. F. Herold and H. W. Parrott. 2,650,646, Sept. 1.
Seat assembly, Adjustable. E. W. MacKnight. 2,650,647, Sept. 1.
Securing awning fabric to awning rollers, Means for. E. P. D'Asso. 2,650,662, Sept. 1.
Sedimentation apparatus. C. H. Scott. 2,650,707, Sept. 1.
Self-relocking combination lock. R. Streeter. 2,650,491, Sept. 1.
Separating gas mixtures. W. E. Lobo. 2,650,482, Sept. 1.
Separating optical isomers. A. Gero. 2,650,938, Sept. 1.
Separating solid particles, Method and apparatus for. J. Colin, R. Burr, and A. Gafanesch. 2,650,706, Sept. 1.
Separation of air. P. M. Schuftan. 2,650,483, Sept. 1.
Separation of gaseous mixtures. G. T. Cooper. 2,650,481, Sept. 1.
Separation of particulate material from entraining gaseous fluids, Method and apparatus for the. J. I. Yellott. 2,650,675, Sept. 1.
Shade and curtain hardware, Drapery. I. Lundstrom. 2,650,715, Sept. 1.
Shaft sealing device. W. M. Coopman. 2,650,842, Sept. 1.
Shield for clotheslines, Sectional. J. Klein. 2,650,716, Sept. 1.
Shipping and storing combustible gases, Method and apparatus for. E. H. Brown. 2,650,478, Sept. 1.
Shock absorber for railway draft riggings. P. M. Bourdon. 2,650,721, Sept. 1.
Shock-absorber, Liquid spring. R. L. Levy. 2,650,820, Sept. 1.
Shock absorbing mechanism for railway cars, Friction. G. E. Dath. 2,650,719, Sept. 1.
Shock absorbing mechanism for railway draft riggings. V. S. Danielson. 2,650,720, Sept. 1.
Side shift for crate lifting attachment. A. V. Blatz. 2,650,783, Sept. 1.
Signal device, Automobile. J. C. Graveno. 2,650,963, Sept. 1.
Signal device, Line fault. T. E. Gardner. 2,651,030, Sept. 1.
Sitting furniture of the knockdown type. F. Ohlsson. 2,650,656–7, Sept. 1.
Sleeve construction, Underarm. J. Clyne. 2,650,364, Sept. 1.
Sleeve puller. A. A. Barbisch. 2,650,419, Sept. 1.
Snap switch. A. Razdow. 2,650,964, Sept. 1.
Sod cutter. D. E. Moldowan. 2,650,532, Sept. 1.
Solvent extraction of asphaltic residues. R. C. Woerner. 2,650,897, Sept. 1.
Spark plug. R. H. Devaux. 2,650,583, Sept. 1.
Spark plug and ignition wire attachment means. F. E. Bernier. 2,650,584, Sept. 1.
Spectacle case. K. T. Parsell. 2,650,701, Sept. 1.
Speed governor. G. B. R. Feilden and R. E. Wigg. 2,650,815, Sept. 1.
Spirally arranged toothed cultivator wheel. G. A. Newhouse. 2,650,460, Sept. 1.
Spline affixing device for parquetry blocks. C. E. Tibbals. 2,650,627, Sept. 1.
Spoon, Slotted mixing. L. C. Brandel. 2,650,425, Sept. 1.
Spray dried vitamin A and D emulsion. J. C. Wallenmeyer, F. G. McDonald, and R. L. Henry. 2,650,895, Sept. 1.
Spring: *See*—
Auxiliary steering arm stabilizer spring. Mechanical spring.
Spring arc support. R. P. Cover. 2,650,817, Sept. 1.
Spring coiling device. C. I. Johnson and J. A. Nord. 2,650,638, Sept. 1.
Spring mounting of tractor drive wheels, Torsion. R. B. Hopkins. 2,650,668, Sept. 1.
Stabilization of polymerizable aromatic compounds. R. N. Haward and E. T. Borrows. 2,650,899, Sept. 1.
Stand: *See*—
Christmas tree stand. Wrist watch stand.
Display stand.
Stapling machine, Automatic. R. M. Nardone. 2,650,360, Sept. 1.
Steel wool packet. L. R. Hagen. 2,650,703, Sept. 1.
Stop motion for narrow ware looms, Electric filling. G. D. Johnson. 2,650,625, Sept. 1.
Stop motion for narrow ware looms, Electric filling. L. O. Waterhouse. 2,650,624, Sept. 1.
Stop positioning mechanism for typewriters. W. F. Helmond. 2,650,687, Sept. 1.
Stopper, Pipe line. F. H. Mueller and J. J. Smith. 2,650,620, Sept. 1.
Storage apparatus, Automobile. G. G. Goodwyn. 2,650,728, Sept. 1.
Storm window and screen, Combination. E. L. Clarke. 2,650,661, Sept. 1.
Story pole holder. C. C. Valentine. 2,650,787, Sept. 1.
Strand supply apparatus. J. B. Gray, III and E. M. Martin. 2,650,772, Sept. 1.
Stretcher, Folding. T. J. Zeller and S. H. Bingham. 2,650,373, Sept. 1.
Strike plate. R. Garbe. 2,650,848, Sept. 1.
Structural wood unit. P. de Anguera. 2,650,395, Sept. 1.
Styrene-copolymer and producing the same. J. H. Sample. 2,650,907, Sept. 1.
Support: *See*—
Adjustable support. Spring arc support.
Swab for tapered casing or tubing. H. J. Pankrats. 2,650,546, Sept. 1.
Switch: *See*—
Arcless controlling switch. Snap switch.
Electric switch. Throttle controlled starter switch.
Electrical switch.
Roller type switch.
Switch assembly, Rotary electric. K. C. Allison. 2,650,960, Sept. 1.
Switch for internal-combustion engines, Vacuum controlled auxiliary ignition. E. B. Morrison. 2,650,965, Sept. 1.
Syringe. R. Borda. 2,650,592, Sept. 1.
System of changing the frequency band occupied by a telephonic transmission. H. M. Veaux. 2,650,949, Sept. 1.
Tabulating mechanism for accounting machines, Automatic skip-tab. W. H. van Hacht. 2,650,758, Sept. 1.
Target, Flying. L. R. Jordan. 2,650,529, Sept. 1.
Taximeter. J. G. Weisinger. 2,650,757, Sept. 1.
Telephone line lockout adapter. F. Kessler. 2,650,950, Sept. 1.
Tens-transfer mechanism. C. L. Cho. 2,650,765, Sept. 1.
Tensioning apparatus. G. W. Nigh. 2,650,713, Sept. 1.
Terminal card manufacturing machine. R. M. Kingman. 2,650,415, Sept. 1.
Textile material sized with zirconium salt of water-soluble carboxyalkyl cellulose. J. H. Elliott. 2,650,887, Sept. 1.
Thermorelay with indirectly heated bimetallic strip. A. Viboud. 2,650,967, Sept. 1.
Throttle controlled starter switch. L. C. Dermond. 2,650,988, Sept. 1.
Thrust transmitting retainer for shaft mounted members. S. J. Spurgeon. 2,650,843, Sept. 1.
Tilting arrangement for shortwall coal cutting machines. C. F. Osgood. 2,650,811, Sept. 1.
Time-clock starting mechanism, Automobile. M. B. Doyle. 2,650,987, Sept. 1.
Time measurement system. E. F. Shelley. 2,651,022, Sept. 1.
Timepiece, Calendar. R. Favre. 2,650,467, Sept. 1.
Timer construction, Interval. K. K. Neumann. 2,650,466, Sept. 1.
Tire, Adjutsable. J. D. Langdon. 2,650,632, Sept. 1.
Tire bead loosener, Nut actuated spider type. F. A. Morgan. 2,650,659, Sept. 1.
Tire, Resilient. E. Eger. 2,650,633, Sept. 1.
Titanium tetrachloride, Preparation of. O. F. Sprague. 2,650,873, Sept. 1.
Tool: *See*—
Garden tool. Oil tool.
Machine tool.
Tool for well drilling, Key seat. K. R. Stohn. 2,650,796, Sept. 1.
Tool with grooved nose elements, Spreader. R. L. Redmond. 2,650,735, Sept. 1.
Toothbrush with a flexible head. L. R. Bressler. 2,650,383, Sept. 1.
Top-guide for sliding panel construction. D. D. Foss. 2,650,387, Sept. 1.
Toy, Aquatic figure. T. C. Martin. 2,650,453, Sept. 1.
Toy bank. E. B. Bigué. 2,650,686, Sept. 1.
Toy bank. T. C. Martin. 2,650,452, Sept. 1.
Trailer hitch. H. D. Hume and J. D. Wheeler. 2,650,832, Sept. 1.
Trailer, Lifting. L. M. Rohm. 2,650,730, Sept. 1.
Transducer control. H. E. Van Valkenburg and E. G. Cook. 2,651,012, Sept. 1.
Transformer for alternating current welders, Variable. F. B. Miller. 2,651,023, Sept. 1.
Transistor design. E. A. Meyer. 2,651,009, Sept. 1.
Transportation system and equipment. W. F. Adler. 2,650,731, Sept. 1.
Transporting float. A. R. M. Nisery. 2,650,558, Sept. 1.
Tray for automobile instrument panels, Service. O. W. Carpenter. 2,650,870, Sept. 1.
Tree felling and land-clearing attachment. R. E. Long. 2,650,625, Sept. 1.
Triazine vat dyes. M. Scalera and E. M. Hardy. 2,650,920, Sept. 1.
Trouser fly, Zipper fastened. J. D. Knotter. 2,650,366, Sept. 1.
Truck, Hand. E. P. Coval. 2,650,834, Sept. 1.
Truck, Rail vehicle. B. S. Cain and J. K. Erser. 2,650,549, Sept. 1.
Tube assembly, Flexible Pitot-static. R. A. Renwanz. 2,650,497, Sept. 1.
Truck, Snubbed bolster. R. C. Pierce. 2,650,550, Sept. 1.
Turbine, Pressure fluid. K. A. Rider. 2,650,794, Sept. 1.
Turbomachine stator casing. A. Howard, B. O. Buckland, and C. S. Rice. 2,650,753, Sept. 1.
Turret lathe. J. H. Wilson. 2,650,417, Sept. 1.

2-keto pyrimidines. J. M. Sprague and E. M. Schultz. 2,650,921, Sept. 1.
2,2-bis-(tertiary butyl peroxy) butane catalyst for ethylene polymerization. T. Boyd. 2,650,913, Sept. 1.
Valve: *See*—
Automatic cutoff valve. Pressure regulating valve.
Electromagnetic valve. Refrigerant expansion valve.
Hydraulic valve.
Mixing valve. Safety gas valve.
Valve. J. R. Clark, Jr., and E. W. James. 2,650,793, Sept. 1.
Valve assembly, Antifreese. R. M. Henderson. 2,650,611, Sept. 1.
Valve construction. E. R. Bernight. 2,650,579, Sept. 1.
Valve for gas appliances, Graduated universal. I. V. Brumbaugh. 2,650,612, Sept. 1.
Valve for gas appliances with interconnected sleeve, Graduated universal. I. V. Brumbaugh. 2,650,614, Sept. 1.
Valve for gas appliances with ported sleeve, Graduated universal. I. V. Brumbaugh. 2,650,610, Sept. 1.
Valve for gas appliances with slitted sleeve, Graduated universal. I. V. Brumbaugh. 2,650,613, Sept. 1.
Valve for hydrostatic pumps, Servo-control. J. P. Polonekto ff. 2,650,542, Sept. 1.
Valve for lubricant temperature regulating systems. L. B. Nemmer and C. J. O'Brien. 2,650,767, Sept. 1.
Valve guide, Flush. J. B. Allies. 2,650,369, Sept. 1.
Valve operator, Cone. R. Bacchi. 2,650,503, Sept. 1.
Variable sensitivity control device and circuit for use therein. P. T. Semm. 2,650,996, Sept. 1.
Vent and filter plug closure. H. L. Bering and T. P. Callahan. 2,650,673, Sept. 1.
Ventilating system. M. G. Bales. 2,650,577, Sept. 1.
Vine holder. L. J. Wurdinger. 2,650,454, Sept. 1.
Vinyl chloride polymer plasticized with 3,5,5-trimethyl-1-hexanol-polybasic acid ester. W. L. Becars. 2,650,908, Sept. 1.
Voltage regulator. F. R. Milsom. 2,651,020, Sept. 1.
Vulcanising rubber soles on boots and shoes. C. Mediano. 2,650,390, Sept. 1.
Warp stop motion for weaving looms and other textile machines. R. Robin. 2,650,623, Sept. 1.
Washing machine governed by a master control, Power-driven. H. Harvey. 2,650,480, Sept. 1.
Waste disposing device. O. C. Norton. 2,650,708, Sept. 1.
Water cleaning apparatus. L. B. Gilcrest. 2,650,711, Sept. 1.
Water cooler. H. W. Taylor. 2,650,800, Sept. 1.
Water-soluble urea-aldehyde condensation products and making same. F. Köhler. 2,650,910, Sept. 1.
Weatherproof covering closure fastener. J. R. La Mond. 2,650,401, Sept. 1.
Weighing apparatus, Material. G. P. Adams. 2,650,791, Sept. 1.
Well logging. C. B. Vogel. 2,651,027, Sept. 1.
Wheel: *See*—
Flange-type safety wheel. Spirally arranged toothed cultivator wheel.
Railway car wheel.
Wheel cover. G. A. Lyon. 2,650,862, Sept. 1.
Wheel housing cover. H. G. Anderson and G. B. Parsons. 2,650,547, Sept. 1.
Wind supply device for musical instruments. J. Robotti. 2,650,515, Sept. 1.
Windshield wiper control, Electric. R. C. Bohl. 2,651,013, Sept. 1.
Windshields, Laminated glass-vinyl. W. K. Bledsoe. 2,650,890, Sept. 1.
Window sash and screen assembly, Automobile. B. A. Lange. 2,650,858, Sept. 1.
Wing for aircraft, Pivotally mounted rotating. A. M. Young. 2,650,667, Sept. 1.
Wire and tubing rolling machine. D. E. and D. C. McCray. 2,650,509, Sept. 1.
Wire clamp applying device. K. C. Hart. 2,650,510, Sept. 1.
Wire holder. J. A. Findlay. 2,650,948, Sept. 1.
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Worm geared band clip. C. W. Cheney. 2,650,406–7, Sept. 1.
Wrapping machine. J. J. McGinley. 2,650,459, Sept. 1.
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Wrench with nut fulcrumed pivoted outer jaw, Pipe. W. J. Johnson and C. G. Ertell. 2,650,512, Sept. 1.
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ISSUED SEPTEMBER 1, 1953

NOTE.—First number—class, second number—subclass, third number—patent number

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98: 2,660,364
167: 2,660,365
234: 2,660,366
236: 2,660,367
4— 2: 2,660,368
57: 2,660,369
5— 9: 2,660,370
11: 2,660,371
75: 2,660,372
82: 2,660,373
94: 2,660,374
99: 2,660,375
8— 189: 2,660,376
9— 2: 2,660,376
39: 2,660,377
2,660,378
12— 10.5: 2,660,379
33: 2,660,380
13— 18: 2,660,943
25: 2,660,944
15— 29: 2,660,381
147: 2,660,382
167: 2,660,383
210: 2,660,384
235: 2,660,385
16— 49: 2,660,386
91: 2,660,387
147: 2,660,388
18— 47.5: 2,660,389
89: 2,660,390
19— 69: 2,660,391
20— 28: 2,660,392
57.5: 2,660,393
2,660,394
91: 2,660,395
22— 89: 2,660,396
23— 87: 2,660,573
24— 3: 2,660,397
116: 2,660,398
117: 2,660,399
123: 2,660,400
208: 2,660,401
205.11: 2,660,402
242: 2,660,403
243: 2,660,404
274: 2,660,405
2,660,406
2,660,407
25— 43: 2,660,408
118: 2,660,409
2,660,410
131: 2,660,411
155: 2,660,412
1: 2,660,413
26— 71.5: 2,660,414
28— 33: 2,660,415
37: 2,660,416
50: 2,660,417
148: 2,660,418
260: 2,660,419
263: 2,660,420
30— 30: 2,660,421
154: 2,660,422
261: 2,660,423
266: 2,660,424
326: 2,660,425
330: 2,660,426
31— 4: 2,660,427
30: 2,660,428
33— 30: 2,660,429
32: 2,660,430
89: 2,660,431
129: 2,660,432
131: 2,660,433
168: 2,660,434
169: 2,660,435
170: 2,660,436
174: 2,660,437
34— 76: 2,660,438
37— 43: 2,660,439
126: 2,660,440
169: 2,660,441
38— 106: 2,660,442
39— 87: 2,660,443
40— 16: 2,660,444
41— 10: 2,660,445
11: 2,660,574
42: 2,660,575
42— 74: 2,660,446
43— 24: 2,660,447
25: 2,660,448
26: 2,660,449
42.22: 2,660,450
131: 2,660,451
46— 3: 2,660,452
92: 2,660,453
47— 44: 2,660,454
60: P.P.1,214
P.P.1,215
62: P.P.1,213
50— 21: 2,660,455
23: 2,660,456
51— 61: 2,660,457
103: 2,660,458
53— 110: 2,660,459
55— 182: 2,660,460
56— 12: 2,660,461
14: 2,660,462
249: 2,660,463
328: 2,660,464
57— 135: 2,650,465
58—21.12: 2,660,466
26: 2,660,467
90: 2,660,468
59— 14: 2,660,469
60: 2,660,470
60—39.03: 2,660,471
39.26: 2,660,472
52: 2,660,473
61— 26: 2,660,474
45: 2,660,475
2,660,476
63: 2,660,477
63— 1: 2,660,478
2: 2,660,479
3: Re.23,705
5: 2,660,480
175.5: 2,660,481
2,660,482
2,660,483
64— 23: 2,660,484
65— 15: 2,660,485
66— 86: 2,660,486
153: 2,660,487
67— 3: 2,660,488
68— 12: 2,660,489
130: 2,660,490
148: 2,660,491
262: 2,660,492
71— 2.7: 2,660,576
73— 7: 2,660,493
32: 2,660,494
143: 2,660,495
204: 2,660,496
212: 2,660,497
223: 2,660,498
425.4: 2,660,499
74— 1: 2,660,500
2: 2,660,501
5: 2,660,502
22: 2,660,503
190: 2,660,504
217: 2,660,505
242.15: 2,660,506
711: 2,650,507
76— 37: 2,660,508
80— 13: 2,660,509
81— 9.3: 2,660,510
87: 2,660,511
101: 2,660,512
84— 219: 2,660,513
255: 2,660,514
2,660,515
85— 5: 2,660,516
86— 24: 2,660,517
2,660,518
48: 2,660,519
88— 23: 2,660,520
90— 11: 2,660,521
16: 2,660,522
90— 39: 2,650,521
42: 2,650,524
44: 2,650,525
94— 45: 2,650,526
95— 5.7: 2,650,577
2,650,578
11.5: 2,650,528
39: 2,650,527
97—46.30: 2,650,528
47.51: 2,650,529
66: 2,650,530
137: 2,660,531
226: 2,660,532
228: 2,660,533
98— 2: 2,650,534
94: 2,650,535
99— 62: 2,660,579
102: 2,660,580
107: 2,660,581
140: 2,660,583
416: 2,660,584
101— 157: 2,660,537
227: 2,660,538
102— 21.6: 2,660,539
28: 2,650,540
71: 2,660,541
103— 5: 2,660,542
2,650,543
128: 2,650,544
180: 2,660,545
226: 2,660,546
105— 4: 2,650,547
123: 2,650,548
2,660,549
197: 2,660,550
107— 1: 2,650,551
46: 2,650,552
57: 2,650,553
60: 2,650,554
110— 97: 2,650,555
111— 7: 2,650,556
112— 218: 2,650,557
114— 5: 2,650,558
116— 114: 2,650,559
2,650,560
117: 2,650,561
2,650,562
117—33.5: 2,660,564
63: 2,650,565
190: 2,650,566
199.5: 2,660,567
118— 24: 2,650,563
46: 2,650,564
51: 2,650,565
119—33.5: 2,650,568
99: 2,650,567
120— 26: 2,650,569
32: 2,650,569
108: 2,660,570
121— 1: 2,660,571
26: 2,660,572
86: 2,660,573
130: 2,660,574
122— 17: 2,650,575
504: 2,660,576
123— 1: 2,660,577
41.09: 2,660,578
90: 2,660,579
103: 2,660,580
117: 2,660,581
134: 2,660,582
169: 2,660,583
2,660,584
124— 7: 2,660,585
126— 39: 2,660,586
129— 24.1: 2,660,587
92: 2,660,588
134: 2,660,590
173: 2,660,591
227: 2,660,592
264: 2,660,593
129— 1: Re.23,708
16: 2,660,594
131— 268: 2,660,595
132— 89: 2,660,596
70: 2,660,597
91: 2,660,598
134— 18: 2,650,598
64: 2,650,599
77: 2,650,600
107: 2,650,601
112: 2,650,602
122: 2,650,603
136— 111: 2,650,945
2,650,946
164: 2,650,947
137— 100: 2,650,604
102: 2,650,605
209: 2,650,606
469: 2,650,607
560: 2,650,608
623: 2,650,609
657: 2,650,610
2,650,611
657.4: 2,650,612
2,650,613
2,650,614
662: 2,650,615
657: 2,650,616
719: 2,650,617
788: 2,650,618
138— 64: 2,650,619
94: 2,650,620
139— 39: 2,650,621
170.6: 2,650,622
352: 2,650,623
371: 2,650,624
2,650,625
142— 32: 2,650,626
144— 2: 2,650,627
34: 2,650,628
213: 2,650,629
145— 21.5: 2,650,630
180— 34: 2,650,630
38: 2,650,631
182— 176: 2,650,632
227: 2,650,633
183— 2: 2,650,634
21: 2,650,635
40: 2,650,636
48: 2,650,637
57: 2,650,638
108: 2,650,639
184— 1.7: 2,650,640
2.71: 2,650,880
14: 2,650,641
2,650,642
42: 2,650,643
46: 2,650,891
186— 49: 2,650,644
52: 2,650,645
77: 2,650,646
81: 2,650,647
95: 2,650,648
106: 2,650,649
112: 2,650,650
128: 2,650,651
139: 2,650,652
143: 2,650,653
165: 2,650,654
189: 2,650,655
198: 2,650,656
2,650,657
2,650,658
187— 1.2: 2,650,659
189— 47: 2,650,660
190— 217: 2,650,661
404: 2,650,662
164— 47: 2,650,663
168— 12: 2,650,664
167— 31: 2,650,892
36.6: 2,650,893
81: 2,650,894
2,650,895
189— 28: 2,650,896
170—135.4: 2,650,666
160.67: 2,650,667
174— 198: 2,650,946
179—15.55: 2,650,949
18: 2,650,948
190.1: 2,650,951
190.2: 2,650,952
190.41: 2,650,953
167: 2,650,954
179— 171: Re.23,707
2,650,955
2,650,956
180— 71: 2,650,668
79.2: 2,650,669
189— 2: 2,650,670
2.5: 2,650,671
7: 2,650,672
44: 2,650,673
61: 2,650,674
80: 2,650,675
184— 6: 2,650,676
27: 2,650,677
186— 1: 2,650,678
188— 5: 2,650,679
80: 2,650,680
78.5: 2,650,681
164: 2,650,682
189— 34.6: 2,650,683
192— 21.5: 2,650,684
106: 2,650,685
194— 54: 2,650,686
196— 114: 2,650,687
198—14.46: 2,650,687
30: 2,650,688
197— 62: 2,650,687
127: 2,650,688
178: 2,650,689
198— 9: 2,650,690
10: 2,650,691
14: 2,650,692
57: 2,650,693
104: 2,650,694
203: 2,650,695
221: 2,650,696
80: 2,650,697
199— 135: 2,650,698
139: 2,650,699
200— 1: 2,650,967
6: 2,650,968
15: 2,650,969
2,650,970
147: 2,650,971
180: 2,650,972
168: 2,650,973
201— 61: 2,650,974
64: 2,650,975
73: 2,650,976
202— 57: 2,650,699
204— 11: 2,650,700
33: 2,650,701
36: 2,650,702
222: 2,650,904
206— 51: 2,650,698
53: 2,650,699
5: 2,650,700
2,650,701
47: 2,650,702
89: 2,650,703
96: 2,650,704
209— 126: 2,650,705
173: 2,650,706
210— 8.5: 2,650,709
55: 2,650,707
57: 2,650,708
161: 2,650,710
167: 2,650,711
170: 2,650,712
199: 2,650,713
211— 57: 2,650,714
108: 2,650,715
110.18: 2,650,716
178: 2,650,717
212— 48: 2,650,718
213— 34: 2,650,719
45: 2,650,720
2,650,721
214— 8.5: 2,650,722
214— 42: 2,650,723
75: 2,650,724
2,650,725
83.20: 2,650,726
85: 2,650,727
96: 2,650,728
2,650,729
208: 2,650,730
215: 2,650,731
220: 2,650,732
720: 2,650,733
215— 40: 2,650,734
218— 25: 2,650,735
219— 4: 2,650,977
10: 2,650,978
15: 2,650,979
43: Re.23,709
44: 2,650,980
220— 4: 2,650,736
2,650,737
28: 2,650,738
222— 82: 2,650,739
88: 2,650,740
181: 2,650,741
199: 2,650,742
210: 2,650,743
253: 2,650,744
410: 2,650,745
226— 14: 2,650,746
116: 2,650,747
129: 2,650,748
228— 28: 2,650,749
64: 2,650,750
229— 31: 2,650,751
230— 120: 2,650,752
133: 2,650,753
182: 2,650,754
208: 2,650,755
236— 21: 2,650,756
34.5: 2,650,757
240— 148: 2,650,981
2,650,982
242— 25: 2,650,758
27: 2,650,759
44.4: 2,650,770
54: 2,650,771
2,650,772
55.2: 2,650,773
55.5: 2,650,774
74: 2,650,775
88: 2,650,776
90: 2,650,777
123: 2,650,778
147: 2,650,779
244— 13: 2,650,780
40: 2,650,781
80: 2,650,782
248— 44: 2,650,783
95: 2,650,784
116: 2,650,785
139: 2,650,786
238: 2,650,787
239: 2,650,788
266: 2,650,789
249— 14: 2,650,790
18: 2,650,791
250— 33: 2,650,983
2,650,984
33.62: 2,650,985
208: 2,650,986
251— 95: 2,650,792
144: 2,650,793
269— 5.5: 2,650,985
462: Re.23,705
470: 2,650,986
270— 39: 2,650,794
284— 109: 2,650,795

255— 19: 2,650,796
27: 2,650,797
77: 2,650,798
146: 2,650,799
180: 2,650,800
241: 2,650,801
248: 2,650,802
260: 2,650,803
259— 6: 2,650,804
57: 2,650,805
88: 2,650,806
109: 2,650,807
260— 23: 2,650,807
30.6: 2,650,808
31.8: 2,650,809
88: 2,650,910
78.5: 2,650,911
88.5: 2,650,912
94.9: 2,650,913
119: 2,650,914
178: 2,650,915
187: 2,650,916
200: 2,650,917
200.5: 2,650,918
243: 2,650,919
249: 2,650,920
251: 2,650,921

260—266.4: 2,650,922
2,650,923
266.5: 2,650,924
268: 2,650,925
307.6: 2,650,926
343.2: Re.23,703
348.5: 2,650,927
381: 2,650,928
307.2: 2,650,929
307.4: 2,650,940
409: 2,650,941
413: 2,650,942
448.8: 2,650,934
453: 2,650,933
461: 2,650,935
526: 2,650,936
552: 2,650,937
570.6: 2,650,938
586: 2,650,939
618: 2,650,940
635: 2,650,941
648: 2,650,942
47.2: 2,650,234
261— 11: 2,650,308
114: 2,650,309
121: 2,650,310
262— 30: 2,650,311
33: 2,650,312

262— 33: 2,650,313
263— 29: 2,650,314
264— 7: 2,650,315
265— 27: 2,650,316
267— 43: 2,650,317
52: 2,650,318
57: 2,650,319
64: 2,650,320
270— 68: 2,650,321
271— 2.4: 2,650,322
2,650,323
18: 2,650,324
89: 2,650,325
272— 4: 2,650,326
31: 2,650,327
86: 2,650,328
273— 105.4: 2,650,329
4: 2,650,330
274— 10: 2,650,331
280—33.05: Re.23,704
33.15: 2,650,332
33.44: 2,650,333
47.2: 2,650,334
280— 120: 2,650,335
281— 12: 2,650,336
285— 3: 2,650,337
108: 2,650,338

285— 135: 2,650,339
165: 2,650,340
286— 11: 2,650,341
11.15: 2,650,342
287— 20: 2,650,343
98: 2,650,344
101: 2,650,345
290— 2: 2,650,957
88: 2,650,958
292— 218: 2,650,846
265: 2,650,847
341.18: 2,650,848
293— 64: 2,650,849
2,650,850
69: 2,650,851
294— 92: 2,650,852
295— 18: 2,650,853
34: 2,650,854
296— 1: 2,650,855
28: 2,650,856
44: 2,650,857
2,650,858
298— 22: 2,650,859
299— 114: 2,650,860
300— 1: 2,650,861
301— 37: 2,650,862
309— 84: 2,650,863

307— 10: 2,650,989
41: 2,650,990
308— 174: 2,650,964
227: 2,650,965
236: 2,650,966
2,650,967
309— 3: 2,650,968
45: 2,650,969
310— 8.7: 2,650,991
42: 2,650,992
50: 2,650,993
57: 2,650,994
76: 2,650,995
95: 2,650,996
311— 21: 2,650,570
312— 222: 2,650,571
313— 30: 2,650,997
100: 2,650,998
302: 2,650,999
315— 8: 2,651,000
6: 2,651,001
20: 2,651,002
40: 2,651,003
169: 2,651,004
208: 2,651,005
239: 2,651,006
317— 101: 2,651,007

317— 105: 2,651,008
285: 2,651,009
318— 24: 2,651,010
28: 2,651,011
116: 2,651,012
275: 2,651,013
283: 2,651,014
499: 2,651,015
221— 14: 2,651,016
2,651,017
18: 2,651,018
228— 21: 2,651,019
66: 2,651,020
224— 53: 2,651,021
88: 2,651,022
226— 70: 2,651,023
229— 55: 2,651,024
97: 2,651,025
246: 2,651,026
340— 18: 2,651,027
88: 2,651,028
213: 2,651,029
253: 2,651,030
289: 2,651,031
343— 108: 2,651,032
105: 2,651,033

CLASSIFICATION OF DESIGNS

D 2— 3: Des. 170,310
D 3— 8: Des. 170,340
D14— 3: Des. 170,297
30: Des. 170,317
D15— 1: Des. 170,327
8: Des. 170,303
Des. 170,304
Des. 170,311
D21— 6: Des. 170,342

D22— 3: Des. 170,334
D33— 2: Des. 170,306
Des. 170,309
11: Des. 170,331
14: Des. 170,305
Des. 170,315
D34— 2: Des. 170,322
4: Des. 170,326
D36— 8: Des. 170,312

D41— 1: Des. 170,301
D42— 7: Des. 170,324
D44— 1: Des. 170,307
10: Des. 170,328
15: Des. 170,329
D45— 9: Des. 170,327
10: Des. 170,341
19: Des. 170,300
D47— 7: Des. 170,319

D47— 7: Des. 170,333
D48—20: Des. 170,323
24: Des. 170,316
D54—18: Des. 170,330
D55— 1: Des. 170,299
D57— 1: Des. 170,314
Des. 170,343
7: Des. 170,298
D58— 8: Des. 170,320

D58—11: Des. 170,321
17: Des. 170,302
D61— 1: Des. 170,344
D65— 1: Des. 170,330
D70— 1: Des. 170,325
D72— 1: Des. 170,328
D77— 1: Des. 170,313
D80— 9: Des. 170,326
D85— 2: Des. 170,308

D85— 2: Des. 170,345
8: Des. 170,320
D87— 3: Des. 170,316
Des. 170,332
Des. 170,346
D89— 2: Des. 170,339

U. S. GOVERNMENT PRINTING OFFICE: 1953

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE DAVIS ET AL.

No. 5955. Decided April 15, 1953

[203 F.2d 721; 97 USPQ 344]

PATENTABILITY — PARTICULAR SUBJECT MATTER — PREVENTING COLLAPSE OF MOLDED CONCRETE PRODUCTS WHEN THE CORE IS WITHDRAWN.

Certain claims to a method and apparatus for preventing collapse of molded concrete products when the core is withdrawn *Held* to embody invention over the cited prior art and the decision of the Board of Appeals is reversed.

APPEAL from Patent Office. Serial No. 35,348.

REVERSED.

Barnes, Kisselle, Laughlin & Raisch (*Stuart C. Barnes* and *Bacon & Thomas* of counsel) for appellants.

E. L. Reynolds (*H. S. Miller* of counsel) for the Commissioner of Patents.

GARRETT, *Chief Judge*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office (hereinafter referred to as the Board) affirming the rejection by the Primary Examiner (hereinafter referred to as the Examiner) of all the claims numbered 1 to 8 inclusive, of appellants' application for patent entitled "Means for Preventing Collapse of Molded Concrete Products When the Core Is Withdrawn."

Claims 1, 2 and 7 are directed to method and the others to the apparatus referred to in claims 3, 4, 5 and 6, as a mold box and in claim 8 as a concrete block molding machine.

Claims 2, 3 and 6 which the Board selected as representative, when taken together, cover all the material features of appellants' claimed invention. They read:

2. The method of preventing the collapse of a hollow block in molding hollow concrete blocks or similar products when the core is rapidly withdrawn and the outer mold stripped simultaneously from the block, which comprises using a hollow core with a vent opening in the top and supplying a metered charge of compressed air at a determined pressure to the hollow interior of the core through the vent opening, said charge of air under pressure calculated so as to substantially equalize the pressure on the outside and inside of the block by correlating the air charge with the speed of withdrawal of the core from the block.

3. A mold box containing one or more cores and means for preventing the collapse of the hollow molded block when the cores and mold are stripped from the molded block which comprises the said mold box, the said core or cores, and a conduit and passageways through the core or cores for supplying compressed air to the space left by the core or cores in the block as they and the mold are withdrawn.

6. A mold box containing one or more cores and means for preventing the collapse of the hollow molded block when the cores and mold box are lifted contemporaneously and rapidly leaving the block stripped, which comprises the said mold box, the said core or cores united to the mold box to lift therewith, and a conduit and passageways through the core or cores for supplying compressed air to the space left by the core or cores in the block as they are withdrawn, the air supplied to the space in the block being a charge co-ordinated to the speed of withdrawal of the core from the block so as to keep the pressure on the inside and outside of the block substantially equalized, a cam and cam-controlled valve for opening the supply of air to the space in the block and closing off the supply of air, the amount of opening of the valve being adjustable by means of lost motion between the cam and the valve, and means for actuating the valve adjustable to vary the amount of lost motion and, consequently, the opening of the valve.

The following patents were cited as prior art references: Besser, 1,706,647, Mar. 26, 1929; Strong, 2,193,847, Mar. 19, 1940; Weaver, 2,297,090, Sept. 29, 1942.

As we understand appellants' application, the feature particularly emphasized as constituting their claimed invention is that of equalizing the atmospheric pressure on the outside and inside of the green, freshly molded blocks during the very short period (appellants' brief says "a little more than a half a second") in which the mold and the core are being simultaneously pulled off, or stripped from, the molded block by a described lever arrangement. The atmospheric equalization is accomplished by compressed air introduced into the space left by the core while it is being withdrawn from the block, the force of the compressed air being regulated by a cam arrangement and thus coordinated to the speed of withdrawal of the core from the molded block. The withdrawal of the core tends to create a vacuum in the space within the block from which the core is withdrawn and by filling such space with air, the flow of which is properly regulated, the inner walls of the still plastic cement are prevented from crumbling or deformation.

We quote from the brief on behalf of appellants the following descriptive matter:

The appealed claims are directed to a method and apparatus for providing metered compressed air to the hollow cores of the molds when the mold box and cores are lifted off the molded blocks. The purpose of the compressed air in a metered charge is for equalizing the pressure on the outside and inside of the freshly molded walls so that they will not be collapsed. The mold box usually contains three molds. Suspended from the top of the mold box are a set of cores * which form the hollows in the blocks. * * *. The mold box, the molds and the suspended cores open at their lower ends are set upon a plate called a "pallet" *. Both the molds and the cores are open at their lower ends. The spaces around the cores and in the molds are filled or poured with a con-

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crete mix. The pallet, the mold box, the molds and the cores are then vibrated to pack the material firmly in the molds and around the cores. This material is also, in some machines, tamped by packers that are dropped on the top of the contents of the mold. These are vibrated to do the tamping. After the vibrating and/or tamping operation, the cores, the mold box and the molds are lifted off the molded blocks which rest on the pallet.

Claims 1 to 4, inclusive, and 7 and 8 were rejected as unpatentable over the Strong patent, designated by the Board as the basic reference, in view of the Besser patent, and claims 5 and 6 on those references with the addition of the Weaver patent relating to the cam and cam-controlled valve features defined in those two claims.

The Weaver patent "relates to cam mechanisms, more particularly it relates to a delayed action cam mechanism for controlling air valves used in connection with intermittent operating machines * * *."

In a broad sense, both the Besser and Strong patents are in the same field of art as the application of appellants; that is, the manufacture of molded products of concrete or like cementitious materials for use in the construction of buildings. Besser refers most specifically to concrete blocks, "especially those of hollow form." Strong names "units such as wall slabs, floor slabs, roof slabs, etc., for use primarily in building construction." We find no statement in the specification indicating that the slabs are hollow.

The Besser patent which, according to the brief for appellants, is a hand operated apparatus, contains 27 claims all being for a mold or mold box having various features including, as stated in many of the claims, a core about which the plastic material that forms the finished block is molded. When the core is withdrawn a hollow block results. The apparatus for the production of such blocks appears to be the distinctive feature constituting Besser's invention, the patent on which apparently expired several years ago.

The specification recites:

> * * * [The] invention is especially adapted to molding operations in which it is desired to remove the molds away from the finished blocks, and in doing so, remove the cores from the blocks at the same time, and providing means for holding the block down while the mold and cores are removed.
>
> It is a special object of my invention that the mold box and cores may be removed from hollow blocks without injury to the latter by such removal. To this end, it is my purpose to provide spaced cores which are suspended from means supported by the upper edges of the mold.
>
> It is a further object of my invention to provide hollow cores having open lower ends and closed upper ends, and supports secured to the closed ends of the cores, so that lifting the supports will raise the several cores.

Other objects are recited which need not be recited here, except that relating to "the arrangement of a small perforation [elsewhere called an 'aperture,' identified in a drawing by the numeral 38 to which reference is hereinafter made] in the upper end of the core to permit entrance of air thereinto or therefrom. A plurality of such perforations 38 may be provided if it is desired."

While the Besser patent teaches simultaneous lifting of the mold and core from the pallet, there is no reference in it to the use of compressed air for equalizing atmospheric pressure or for any other purpose, but it seems to have been the view of the tribunals of the Patent Office that the air entering the perforations in the head of the Besser cores, which perforations are referred to in the decisions below as "vents," constituted an equivalent of appellants' compressed air. The brief of the Solicitor for the Patent Office states:

> * * * to prevent a vacuum, conceded to occur in the prior art when the core was too quickly withdrawn, appellants merely use compressed air, whereas the prior art used a vent, as shown in Besser.

However, it is obvious that the Strong patent was principally relied upon as a reference in connection with the compressed air feature of appellants' combination, and the brief of the Solicitor states:

> But Strong amply suggests * * * the use of compressed air to avoid a vacuum.

The Strong patent is entitled "Method of Producing Molded Concrete Products and Apparatus Therefor." It contains only three claims, two of which are directed to "method" and one to "apparatus." The particular subject matter emphasized by Strong in his specification and distinctly set forth in the claims as his invention, is a "jarring operation" and means for producing such operation whereby there is produced "an exceedingly dense homogeneous surface structure at the particular faces [of the slabs] intended for exposure to weathering or wear * * *."

The following is recited in the specification:

> The method of the invention involves, fundamentally, jarring of the concrete simultaneously with compression thereof within an enclosing forming chamber, whereby the desired physical characteristics are imparted to the resulting product. An important step of the method resides in the conducting of a limited quantity of the plastic cementitious material from confinement during the molding thereof.

The patent nowhere uses the word core nor does it contain anything which indicates that the finished slabs (which the Examiner calls blocks) are hollow, but there is disclosed in the specification a "forming cover" provided for cooperation with the mold box during the molding operation and it is said that the forming cover may comprise a *form plate* having its form surface configurated according to the configuration desired for the molded product. The Examiner calls the form plate a core, and, in a sense, it may be such but it is different in type from the cores of both Besser and appellants.

The specification states further that "In the present case the form plate is provided with recesses on its upper surface and is secured to a cover plate in an air-tight manner to produce sealed chambers utilized * * * in connection with the breaking of the vacuum seal between the form surfaces and the yet plastic concrete." It also is said:

> The simultaneous jarring and compression of the plastic concrete in the mold normally produces a vacuum seal between the form surfaces of the form plate and the yet plastic, molded product. To remove the forming cover without damage to the yet plastic product, it is necessary that the vacuum seal be broken.
>
> For accomplishing break of the vacuum seal, compressed air is advantageously introduced between the surfaces concerned before removal of the forming cover of the mold.

The foregoing is followed by a description of mechanism "for accomplishing introduction of compressed air as aforedescribed * * *." The operation is a complicated one which need not be described in detail. The sealed chambers above alluded to are utilized and the operation is such that compressed air is introduced between the form surfaces of the forming plate (the latter being the element which the Examiner called a core) and the yet plastic, though molded, concrete. By such introduction of compressed air between the structural elements distinctly specified—that is, the surfaces of the form plate and the plastic molded concrete—the vacuum seal between those elements is broken and the plastic product is kept from sticking to the surface of the form plate.

From what has been recited, it seems clear that the subject matter distinctly claimed by appellants as their invention differs in material respects from the subject matter distinctly claimed by Strong and allowed him as his invention, and also from the subject matter distinctly claimed by Besser and allowed him as his invention, and, in our opinion, what appellants claim differs materially from what the cited prior art discloses.

Structurally there is a closer resemblance between the apparatus of appellants and that of Besser than there is between that of appellants and that of Strong, but the feature of regulated or, as expressed in claim 2, supra, and other of the claims, "metered" compressed air is not, so far as we have been able to find, even hinted at in the Besser patent.

It is noted that in the course of its decision the Board said:

> * * * Besser shows an example of the simultaneous raising of the box and cores which is persuasive that appellants' device involves only a carrying forward of the concept in a known apparatus. The necessary balancing of pressure to prevent damage is, in both devices, accomplished by the appropriate supplying of compressed air.

Since Besser does not mention compressed air, we assume that the last sentence of the above quotation indicates that the Board regarded the air admitted at normal atmospheric pressure into Besser's core through the perforation or aperture 38 (which the tribunals of the Patent Office call a vent) in the top of the core constitutes an equivalent of appellants' compressed air element.

It is said in the brief of the Solicitor for the Patent Office:

> It is obvious that a vent in the core, as in Besser, equalises the pressure on the inside and the outside of the block.

The specification of the Besser patent states that a stripper member "especially intended for hollow blocks," for assisting the removal of the block from the mold and cores is provided, and that such member includes a supporting plate indicated in a drawing by the numeral 43. Stripper heads are suspended from the plate for use in the operation of lifting the molds and cores, and it is said that the plate is provided "with one or more pins indicated by the numeral 47, which shall be in registration with the aperture 38 (hereinbefore referred to) when the stripper element is deposited on the block."

The result of the foregoing arrangement in the operation of Besser's device is stated as follows:

> * * * As seen in Fig. 5, this pin 47 will enter the aperture 38 when the mold and cores are raised for removing the mold from the block. This provides for opening such aperture each time the block is molded. This avoids deleterious results from the possible creation of a vacuum in the cores when the apertures are filled by accidental deposit of material on the cores.

This described arrangement does not impress us as teaching equalization of pressure on the inside and outside of the block, nor does it disclose the prevention of vacuum formation by means which are equivalent to the compressed air means of appellants.

We regard appellants' compressed, meterized air element as a vital limitation, and, in fact, it must have been so regarded by the tribunals of the Patent Office because the Strong patent was specifically stated by the Board to be the basic reference, evidently because of its compressed air disclosure.

From our study of the respective devices of Besser and Strong, we are convinced that they could not be structurally combined so as to produce the subject matter of appellants' apparatus and method claim without radical modifications.

Appellants' device relates to simultaneously stripping molds and cores from a block which is being manufactured and the structural features are arranged in their device to do that for a particular specified purpose, which purpose has to do with atmospheric pressure which vitally affects the finished block. It does not appeal that Strong's molds are stripped from the slabs as are appellants' from the block. It is an essential part of appellants' claimed invention that compressed air be applied *during* the stripping operation in order to have coordinating action as to the molds and cores. They claim structure designed to do that, and they also cover that feature in their method claims. Strong applies compressed air *before* any stripping action of the form plate takes place. Appellants inject compressed air into the core; Strong apparently does not inject compressed air into the form plate but applies it between the surface of that plate and the surface of the plastic molded product which is being manufactured.

Upon the facts presented and herein related, we are of opinion that appellants should be credited with exercise of the inventive faculty and their claims allowed.

Accordingly, the decision of the Board is reversed.

REVERSED.

U. S. Court of Customs and Patent Appeals

IN RE LILIENFELD

No. 5965. Decided April 16, 1953

[203 F.2d 750; — USPQ —]

1. APPEAL TO U. S. COURT OF CUSTOMS AND PATENT APPEALS—MATTERS BEFORE COURT—REFERENCE NOT MENTIONED BY BOARD.

Although the Board of Appeals did not refer directly to one of the references on which the Examiner rejected the claim, *Held* that, since the Board explicitly affirmed the Examiner's rejection, the reference is properly before the court for consideration for whatever it may disclose.

2. SAME—COURT CANNOT ALLOW CLAIMS ON BASIS OF OTHER ALLOWED CLAIMS.

"There is no provision of law which clothes this court with authority to pass upon the patentability of claims which are allowed by the tribunals of the Patent Office, and there is no rule of patent law more definitely and firmly fixed than the rule to the effect that this court will not allow a claim of an application simply upon the basis that other claims in such applications have been allowed below."

3. PATENTABILITY—PARTICULAR SUBJECT MATTER—ELECTROLYTIC CONDENSER.

A certain claim to an anode structure of an electrolytic condenser *Held* properly rejected.

APPEAL from the Patent Office. Serial No. 782,330.

AFFIRMED.

Emery, Holcombe & Blair (*A. M. Holcombe* and *Joseph F. Brisebois* of counsel) for appellant.

E. L. Reynolds (*S. W. Cochran* of counsel) for the Commissioner of Patents.

GARRETT, *Chief Judge*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office (hereinafter referred to as the Board) wherein the decision of the Primary Examiner (hereinafter referred to as the Examiner) finally rejecting claims 23, 24 and 26 of the involved application of appellant, was affirmed as to claim 26, but reversed as to claims 23 and 24. The only claim before us on appeal, therefore, is claim 26. Eleven claims, including Nos. 23 and 24, stand allowed.

Claim 26 reads as follows:

An anode structure for electrolytic condensers suitable for operation on an alternating current supply circuit and comprising a filmed metal anode, a thin porous separator thereover and a perforated electrode in contact with the separator, the perforated electrode being formed with a thin layer of non-passivating metal along its surface of contact with the separator and cooperating therewith to protect said filmed anode from disintegration by operation on such a circuit.

The involved application relates to an electrode for an electrolytic condenser. Counsel for appellant and counsel for the Government both state in their respective briefs that the statement of the invention in the decision of the Board is acceptable for the purposes of this appeal. That statement, slightly paraphrased to avoid the use of designating numerals, reads as follows:

The appealed claim relates to an electrode for an electrolytic condenser designed for operation in an alternating current for power factor correction, wherein two identical electrodes [called anodes in the specification] are connected to power lines. Each of the electrodes is constructed of a film forming metal, such as aluminum. The dielectric film [layer] is surrounded by a spacer element which may be of paper, tissue, or a layer of porous aluminum phosphate. In connection with the spacer element there is added a perforated electrode with all its surfaces insulated except the surface in contact with the spacer element, which last surface is rendered non-film forming by spattering a thin layer of gold thereupon. The electrode is maintained at a positive potential with respect to the electrolytes of the condenser whereby it attracts negative OH ions which would normally concentrate about the dielectric layer on the electrode and increase the rate of deterioration of the dielectric layer.

The foregoing relates to subject matter shown in Figure 1 of the drawings and described in the specification.

The brief for appellant refers also to subject matter illustrated by Figure 2 of the drawings as follows:

The description of Fig. 2 * * * shows that the metal of the electrode * [as recited in the above description of the matter in Fig. 1] is covered with a thin gold film * on the face towards the separator [spacer] and elsewhere it is covered with an aluminum oxide film *, perforations being provided to permit access of the electrolyte to the separator and filmed face of the electrode in contact therewith in the assembled condenser. The appealed claim relates to this structure as an element of an electrolytic condenser.

As indicated in the beginning of this opinion, the Board had three claims before it on the appeal from the Examiner and the latter's rejection of claims numbered 23 and 24 was reversed. This eliminated one of the references cited by the Examiner as prior art. So, upon the claim numbered 26 the only claim before us, the prior art references are the following: Slepian, 1,473,883, Nov. 13, 1923; Claassen, 2,220,887, Nov. 12, 1940.

[1] In the brief for appellant it is asserted that "further consideration of the Slepian patent seems uncalled for" and that "the only prior art requiring consideration is the Claassen patent." Apparently appellant takes this position because the Board did not refer directly to the Slepian patent in sustaining the Examiner's rejection of claim 26. However, the Board did not overrule it as a reference and, in view of the fact that the Examiner relied upon it, saying "This claim [26] is rejected on Claassen in view of Slepian," and the Board explicitly affirmed the Examiner's rejection as to that claim, we think that the Claassen patent is before us for consideration for whatever it may disclose. *In re Boyce*, 32 CCPA (Patents) 718, 144 F.2d 896, 63 USPQ 80.

The argument on behalf of appellant seems to be based, in the first instance, upon a theory that claim 26 should be allowed inasmuch as claims 23 and 24 were allowed. It is not stated thus baldly in the brief, but we deduce such to be the theory from what the brief does say upon this phase of the controversy.

In the brief it is said in substance that claims 23 and 24 are the same as claim 26 in all essential particulars with the sole exception of the last clause of allowed claim 23 reading, "said perforated electrode being wholly insulated except for the surface thereof in contact with the porous separator." For that is substituted as the last clause of appealed claim 26: "the perforated electrode being formed with a thin layer of non-passivating metal along its surface of contact with the separator and cooperating therewith to protect said filmed anode from disintegration by operation on such a circuit."

The brief continues:

"Non-passivating metal" is non-film-forming metal, described in the specification as "non-polarizable . . . such as gold" * * *. From this it appears that the "non-passivating metal" of the appealed claim is a conductor of electricity not affected or made non-conducting when immersed in the electrolyte of a condenser operating in an electric circuit, as opposed to a "polarizable" metal such as aluminum of which the electrode is made upon which an insulating film (or "dielectric" film) of aluminum oxide is formed by the passage of an electric current through it when submerged in the electrolyte of an electrolytic condenser.

[2] There is no provision of law which clothes this court with authority to pass upon the patentability of claims which are allowed by the tribunals of the Patent Office, and there is no rule of patent law more definitely and firmly fixed than the rule to the effect that this court will not allow a claim of an application simply upon the basis that other claims in such application have been allowed below. This is fundamental law which we think has been followed ever since the establishment of the present statutory procedure for carrying out the constitutional provision relating to the allowance of patents.

From appellant's own statement it is apparent that in claim 23 and its dependent claim 24, he now has the promise of full protection for everything in claim 26 except whatever may be in the last clause of claim 26 which is a claim for structure.

The structural element in the claim under consideration is defined by the phraseology reading, "the perforated electrode being formed with a thin layer of non-passivating metal along its surface of contact with the separator."

The remaining part of the clause reading "and cooperating therewith [that is, with the separator, or "spacer" element] to protect said filmed anode from disintegration by operation on such a circuit" is a purely functional statement and cannot be relied upon to endow the claim with patentable subject matter. *In re Laurent*, 38 CCPA (Patents) 811, 186 F.2d 741, 88 USPQ 360, citing *General Electric Co. v. Wabash Corp.*, 304 U. S. 364, where the Supreme Court said, as stated in headnote 8, "A patentee may not broaden his product claims by describing the product in terms of function." See also *In re Shackell*, 39 CCPA (Patents) 847, 194 F.2d 720, 93 USPQ 34, for a recent application of this ancient rule of law.

So, our only concern here relates to the structural matter defined by the phraseology in the first portion of the concluding clause of claim 26, which, for convenience, we repeat:

* * * the perforated electrode being formed with a thin layer of non-passivating metal along its surface of contact with the separator * * *.

The "perforated electrode" so referred to is one added in connection with the spacer, or separator, element hereinbefore described. The specification states that it is preferably made so that all its surfaces are insulated except the designated surface already herein defined which preferably is covered "with a spattered layer of non-polarizable or non-passivating metal, such as gold."

With respect to claim 26 the Board states:

* * * This claim defines substantially the same basic electrode arrangement as claim 24 except that there is no requirement that the second recited electrode be insulated but only that it be "formed with a thin layer of non-passivating metal along its surface of contact with the generator." So far as the operation of the Claassen condenser in the manner intended by the patentee is concerned, such an arrangement would be entirely feasible. While Claassen states that the anode * is provided with a dielectric film, there is no indication that the electrode * be treated in a similar manner. In fact, there is nothing to indicate that the Claassen condenser would not operate satisfactorily if its electrode * had non-film forming surfaces.

Preliminary to the foregoing, the Board had said that "claim 26 has been rejected as being unpatentable over Claassen" and, as stated at the outset of this opinion, no direct reference was made by the Board to the Slepian patent in connection with the rejection of claim 26.

Assuming for the nonce that the Board may not have deemed consideration of the Slepian patent necessary, we are not convinced that rejection of claim 26 without such consideration was erroneous. It is obvious, as was stated by the Examiner, that "the perforated electrode contacts the electrolyte both in appellant's and the Claassen structure." However, it is unnecessary to review the rejection in the light of Claassen alone because, as has been stated, the Slepian reference is involved before us.

In the specification of that patent it is said:

The [Slepian] electrodes may be of various materials, but they are preferably of a material which is unaffected by the electrolyte in which they are immersed. For example, the electrode immersed in the acid electrolyte may be lead, graphite, magnetite, or an electrode of any suitable material coated with another material which is unaffected by the acid. The electrode immersed in the alkaline electrolyte may be graphite, magnetite, a noble metal, such as gold or an electrode coated with a substance which is unaffected by the alkali.

Thus, Slepian teaches the coating of non-filmed electrodes with a noble metal—gold—which is non-passivating, and we do not regard appellant's teaching of its use patentable over Claassen in view of Slepian.

The cases cited in the brief for appellant have been examined. No one of them presented a state of facts on all fours with the facts of the instant case.

[3] The decision of the Board of Appeals as to claim 26 is affirmed.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

IN RE MCKENNA ET AL.

No. 5956. Decided April 15, 1953

(203 F.2d 717; — USPQ —)

1. PATENTABILITY — INVENTION — HISTORY OF THE ART SHOULD BE STUDIED.

Rule restated that, "in attempting to ascertain the presence or absence of invention, the courts should resort not only to an attempt to determine whether an applicant's novel feature is within the capacity of a skilled mechanic in the art, but also to the history and underlying state of the art at or about the time of the alleged invention, the occasion for it, the advantages and successes it achieves."

2. SAME—SAME—AFFIDAVITS MAY SHOW HISTORY OF ART.

Held that ex parte affidavits are clearly one of the few practical methods of presenting a factual record sufficient to form a basis for proper application of the "history of the art test" in an ex parte proceeding.

3. AFFIDAVITS — EX PARTE PROCEEDINGS — UNINTENTIONAL BIAS MUST BE CONSIDERED.

Held that ex parte affidavits must be closely scrutinized and weighed with care, it being kept in mind that they may unintentionally be colored as a result of enthusiasm for the application subject matter, an affidavit by an applicant particularly being less persuasive than one made by a disinterested person.

4. SAME—SAME—AFFIDAVIT BY APPLICANT MAY BE RELIED ON IF CONVINCING.

Held that, where the affidavit is that of the applicant, it is not to be disregarded for that reason alone, and it may be relied on when sufficiently convincing.

5. PATENTABILITY—INVENTION—CONCEPT OF DOING THE NOVEL ACT IS CONSIDERED.

The concept of doing a thing, the result of which is new and useful and unexpected, must be considered along with the actual steps of doing it, in considering the presence or absence of invention and patentability.

6. SAME — PARTICULAR SUBJECT MATTER — EXPLOSIVE PRESSING OF POWDERED COMPOSITIONS.

Certain claims to a process for explosive pressing of powdered metal mixtures *Held* to define invention over the cited prior art and a certain other claim *Held* properly rejected as indefinite.

APPEAL from Patent Office. Serial No. 766,570.

MODIFIED.

Clarence B. Des Jardins and *Albert F. Robinson* (*Watts T. Estabrook* and *Des Jardins, Robinson & Keiser* of counsel) for appellants.

E. L. Reynolds (*Clarence W. Moore* of counsel) for the Commissioner of Patents.

JOHNSON, J.:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the holding of the Primary Examiner rejecting as unpatentable claims 24 to 27, the only remaining claims in appellants' application for a patent on a "Process for the Explosive Pressing of Powdered Compositions."

The appealed claims relate to a process in the field of powder metallurgy. They are directed to an allegedly novel method of forming and compacting articles to a desired shape from powdered metal mixtures, particularly the hard carbides, nitrides and borides of various metals.

In carrying out the process, the powder mixture, or a loosely compacted mass of powder, is placed in a fluid-impervious sheath, and the sheath is then placed in a pressure chamber filled with fluid. The pressure chamber is designed so that an explosion head having a movable piston may be coupled thereto in sealed relationship, with one end of the movable piston resting against the fluid in the chamber. A charge of powder is placed in the explosion head adjacent the other end of said piston. When the powder is ignited, the resulting explosion drives the piston against the fluid in the pressure chamber, thus creating a pressure which is transmitted by the fluid uniformly in all directions to the sheath-enclosed article in the pressure chamber, thereby uniformly compacting it. The amount of fluid displacement which the piston has made in the pressure chamber is, of course, a measure of the amount that the article has been compacted as a result of the explosion. According to appellants' specification, the best range of pressure for molding hard carbide metal compounds, such as tungsten carbide or other carbides, is between 60,000 to 70,000 pounds per square inch, and the maximum pressure for best results should be developed within the range of 25 to 50 milliseconds. The article thus formed is later "sintered," in a manner well known in this art, to a firmly coherent or cemented condition.

Claims 24 to 27 read as follows:

24. The improvement in the art of powder metallurgy comprising the surrounding of a powder compact with a body of liquid and subjecting said body of liquid to explosive pressure transmitted thereby uniformly to said compact from all directions, to condense said compact uniformly.

25. The improvement in the art of powder metallurgy comprising the surrounding of a powder compact with a body of liquid and subjecting said body of liquid to pressure developed to a maximum within the range of 25 to 50 milli-seconds, said pressure being transmitted by said liquid to the compact from all directions to condense said compact uniformly.

26. The process of claim 25 in which the powder compact is separated from the liquid by a pliable rubber envelope enclosing the compact.

27. The process of claim 26 in which the rubber envelope is evacuated.

The references relied on by the Patent Office are: Johnson (Great Britain), 21,840, A. D. 1897; Madden, 1,081,618, Dec. 16, 1913; Duryea et al., 1,871,671, March 15, 1921; McKenna, 2,220,018, Oct. 29, 1940.

The Madden patent discloses a process for preparing billets from powdered refractory metals such as tungsten and molybdenum. The powdered metal is put into a closed rubber tube which is placed in a pressure chamber. Water or other fluid is then forced into the chamber under great pressure by a pump and the pressure maintained for a brief period. The pliable tube permits the uniform application of the high fluid pressure to the powdered material in substantially all directions, so that the powdered material is compacted into billets having a high degree of unformity and strength.

The patent to McKenna, one of the joint applicants herein, discloses a method of compacting articles having tortuous shapes from powdered carbides, nitrides, and borides of metals. That method, insofar as it is pertinent here, is similar to the above-described process disclosed by Madden. The powdered metal is placed in a rubber sheath which is shaped and then placed in the chamber of a hydraulic press, so as to be entirely submerged. It is then subjected to a pressure of 5,000 to 30,000 pounds per square inch to compact the powder into an article having a relatively dense body. The article so formed is then sintered in the usual way.

Duryea et al. discloses a process for briqueting fragmentary matter such as iron borings. The borings are fed into a cylindrical die closed at one end, a close fitting plunger is entered into the open end of the cylinder, and a preliminary mild pressure is applied thereto to partially compress the borings. Then an explosive charge is fired in the cylinder, by a means not disclosed, so as to drive the plunger further into the die, thereby compacting the material therein under high pressure. It is also suggested that steam or compressed air may be used instead of an explosion to suddenly raise the pressure used to drive the plunger. The reference states that the sudden and practically explosive application of increased pressure causes the individual fragments or particles to slide one upon another and the friction thus occasioned creates an intense heat at the proximate surfaces of the fragments and thereby fuses, welds or coberes those fragments into one mass.

The Johnson patent shows the application of an explosion to drive a piston against a body of liquid which engages a solid metal sheet or tube to press it into an embossing die or to expand portions of it into recesses. Upon oral argument, the Solicitor for the Patent Office conceded that the Johnson reference is somewhat remote, but asserted that it does disclose a means which could be used to carry out the process taught by Duryea et al.

The Examiner rejected claims 24 to 26 as unpatentable over either Madden or McKenna in view of either Duryea et al. or Johnson. He noted that the only difference between applicants' claimed process and those shown by Madden and McKenna was that the fluid in the pressure chamber was subjected to explosive pressure in order to compact the powdered matter in the sheath. He held that it would not constitute invention to substitute the explosive pressure developing means taught by Duryea et al. or Johnson for the pump type pressure means used in either Madden or McKenna. The Examiner also rejected claim 27 on the sole ground of being vague and indefinite. The latter rejection will be discussed in more detail below.

The Board affirmed the Examiner's rejections of claims 24 to 27, with one member filing a dissenting opinion as to the affirmance of the rejection of claims 24, 25 and 26. The majority of the Board concurred with the Examiner's view that no invention was involved in making the "obvious substitution" of explosive forces used in the secondary references for the pump pressure employed to compact the powder masses in the processes of McKenna and Madden. The dissenting member of the Board was of the opinion that applicants sought to solve the problem of warpage and nonuniformity by better compacting; that none of the references suggest the problem or how to solve it; and that nothing in the prior art suggests the combined use of explosive and hydraulic pressure, which in his opinion yielded new and unexpected results. For these reasons, he urged that claims 24, 25 and 26 be allowed. All members of the Board agreed, however, that the rejection of claim 27 as indefinite should be affirmed.

Appellants contend, as they did before the Examiner and the Board, that articles compacted by their process have considerably greater and more uniform density than those compacted by processes heretofore known thus yielding less warpage and porosity, and higher strength characteristics in the finished product after sintering, particularly in larger articles; that, for reasons not fully understood, these improved results are due to the use of explosive fluid pressure; that none of the references, singly or in combination, suggests the combined use of explosive and fluid pressure and appellants' combination of references here applied was unwarranted because appellants' process obtains new and unexpected improved results; and that appellants' process is therefore inventive and patentable over the prior art cited.

Appellants submitted an affidavit of John C. Redmond, one of the joint applicants in this case. It appears from this affidavit that Mr. Redmond has had extensive experience in physics and chemistry and has made an extensive study in the field of cemented hard carbides, having devoted most of his time to that since 1943. He has also testified as an expert in two patent suits involving cemented hard carbide compositions.

Affiant stated that he was fully familiar with the process of the McKenna patent, having seen it in practical operation day by day; that it is fully operative and gives good results when the powder compacts are not too large, but warping, deformation and cracking upon sintering are frequent when the compacts are larger; and that, as a result of investigation, he believes this to be caused by nonuniform density of the pressed powder compact. He stated further that the explosive fluid pressing method of the application here involved has been successfully applied to relatively large members like gas turbine blades, which measurements showed to be of substantially uniform density after compacting and which did not warp, deform or crack upon sintering; that gas turbine blades were pressed using the same maximum pressure (25,000 p. s. i.) under the McKenna method and the explosive pressure method and that those compacted by the former method deformed badly and cracked during sintering, whereas those compacted by the latter method did not. He also stated that the explosive fluid pressing method has been used to press an eighty pound powder compact eight inches high and ten inches in diameter, that measurements showed this compact had identical density throughout of 7.68 plus or minus 0.01, and that he "knows" it has never been possible to achieve such results for large compacts using the McKenna method. Affiant also indicated he attributes the uniform density and better sintering results achieved by the explosive method to the fact that maximum pressure is developed suddenly, within a range of 25 to 50 milliseconds.

[1] This court has frequently stated that, in attempting to ascertain the presence or absence of invention, the courts should resort not only to an attempt to determine whether an applicant's novel feature is within the capacity of a skilled mechanic in the art, but also to the history and underlying state of the art at or about the time of the alleged invention, the occasion for it, the advantages and successes it achieves. *In re Worrest*, 40 CCPA (Patents) —, — F.2d —, — USPQ —; *In re Bowden et al.*, 37 CCPA (Patents) 1201, 183 F.2d 115, 86 USPQ 419; *In re Holt*, 34 CCPA (Patents) 1129, 162 F.2d 472, 74 USPQ 155. Of course the record as to the history of the art before the Patent Office tribunals and this court in an ex parte case would almost invariably be less complete, and perhaps less reliable, than that before a court in an inter partes infringement suit, due to obvious inherent differences in the nature of the two proceedings;

and this is a factor to be considered by us in applying the "history of the art test." *In re Worrest*, supra.

[2] Although there are certain obvious shortcomings in ex parte affidavits as proof, it seems to us that such affidavits are clearly one of the few practical methods of presenting a factual record sufficient to form a basis for proper application of the "history of the art test" in this type of ex parte proceeding. Indeed, in some cases this court has reversed the Patent Office, relying considerably on affidavits presenting facts which convinced us that the invention of the application had some meritorious advantage over the prior art. *In re Robert Burgess, Jr.*, 35 CCPA (Patents) 1076, 167 F.2d 637, 77 USPQ 373; *In re Holt*, supra. [3] Such ex parte affidavits must, of course, be closely scrutinized and weighed with care, it being kept in mind that they may unconsciously and unintentionally be colored as a result of enthusiasm for the subject matter of the application. We think also that an affidavit by an applicant or co-applicant as to the advantages of his invention is less persuasive than one made by a disinterested person (see *Ex Parte Coleman*, 29 USPQ 378, Bd. of Appeals). [4] However, it is not to be disregarded for that reason alone and may be relied on when sufficiently convincing. See *In re Holt*, supra, and *In re Mock*, 28 CCPA (Patents) 919, 117 F.2d 745, 48 USPQ 545, wherein this court relied on such affidavits in reversing the Board of Appeals.

It appears from the record that appellants were faced with the problem of compacting powdered metal briquettes of substantially uniform density for relatively large articles so as to avoid warping, cracking and deforming upon sintering. They solved this problem by using a combination of an explosive force to generate pressure in a liquid surrounding the compact so as to suddenly compress it uniformly in all directions. Furthermore, from the record before us we think appellants' process has important advantages over existing processes, as pointed out in the affidavit by Redmond, the factual portions of which are discussed above.

We find nothing in the disclosure of McKenna or Madden, which either suggests the existence of the problem or how to solve it; nor do we find any such suggestions in Duryea et al. and Johnson, the secondary references. The mere fact that elements of applicants' process may be found in various patent does not necessarily negative invention. *In re Holt*, supra. [5] Moreover, the concept of doing a thing, the result of which is new and useful and unexpected, must be considered along with the actual steps of doing it in considering the presence or absence of invention and patentability. *In re Bisley*, 39 CCPA (Patents) 982, 197 F.2d 355, 94 USPQ 80. We concur with the dissenting member of the Board that appellants have recognized, attacked and successfully solved this problem, achieving new, unobvious and unexpected results in a manner not suggested or disclosed to one skilled in the art by the cited references, either singly or in combination. *In re Emile Frederick, Jr.*, 36 CCPA (Patents) 1123, 175 F.2d 462, 82 USPQ 219.

In view of the foregoing, we think the rejection affirmed by the majority of the Board is based on an unwarranted reconstruction of the prior art in the light of appellants' disclosure and hence is not proper. *In re Bisley, supra*. We therefore are of the opinion that claims 24, 25 and 26 define a patentable invention not disclosed by the prior art, and that the majority of the Board erred in sustaining the Examiner's rejection.

We turn now to consideration of claim 27, which has been rejected as indefinite. We agree with the following statement by the Examiner:

> • • • It is well settled that a claim is interpreted in the light of the specification, but it is equally well settled that a claim should be clear and definite. According to the disclosure of this application, any air in the envelope is evacuated before surrounding the envelope with a body of fluid and pressing. To illustrate the indefiniteness of this claim, it is noted that as drawn, the claim reads on and apparently is directed to the method whereby the rubber envelope is evacuated by removing the compacted metal mass after pressing. Accordingly, claim 27 is deemed to be vague and indefinite and is not in accordance with Revised Statutes Section 4888.[1]

[6] For the reasons hereinbefore set out, the decision of the Board is affirmed as to claim 27, and reversed as to claims 24, 25 and 26.

MODIFIED.

COLE, J., dissents as to the reversal of the Board's rejection of claims 24, 25, and 26.

[1] That part of R. S. 4888 here involved has been carried forward into § 112, Title 35, U. S. C. (1952).

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,012,916, R. H. Pott, Impact tool; 2,143,173, E. H. Shaff, Rotary driving tool, D. C., S. D. N. Y., Doc. 49/570, *Chicago Pneumatic Tool Co. v. Ingersoll-Rand Co. et al.* Complaint dismissed as to R. H. Pott, Oct. 24, 1952; stipulation of dismissal June 12, 1953.

2,031,036, C. G. Dreyman, Composition of matter and method of its production, C. C. A., 1st Cir., (Boston), Doc. 4689, *Russell Box Co. v. Grant Paper Box Co.* Judgment of District Court affirmed (notice June 16, 1953).

2,046,312. (See Re. 21,566.)

2,143,173. (See 2,012,916.)

2,255,611, J. H. Brown, Hat fastener, D. C., S. D. N. Y., Doc. 49/770, *M. D. Scheffler v. Albee Sales Co., Inc., et al.* Consent order of discontinuance (notice June 17, 1953).

2,407,237, D. H. Keiser, Jr., Shears, filed May 27, 1953, D. C., E. D. Pa. (Philadelphia), Doc. 15302, *Seymour Smith & Son, Inc. v. David H. Keiser, Jr.*

2,418,334, J. Coccellato, Protective mask, filed June 15, 1953, D. C., E. D. Mich. (Detroit), Doc. 12704, *J. Coccellato v. Jackson Products.*

2,477,168, T. H. Bardley, Fish eviscerating apparatus, filed June 1, 1953, D. C., N. D. Calif. (San Francisco), Doc. 32806, *Thomas H. Bradley v. K. Horden et al.*

2,505,428, J. K. Pope, Air gun projectile holder; 2,601,555, same, Repeating toy gun, filed June 17, 1953, D. C., E. D. Mich. (Detroit), Doc. 12709, *Newell Mfg. Co. et al. v. Superior Toys, Inc., et al.*

2,527,247, R. E. Dieterich, Visor principally for one-piece windshields, filed June 16, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1391, *Dieterich Products Corp. v. Harrison Wholesale Co.*

2,566,287, L. H. Flaneburgh, Jr., Television antenna system; 2,630,531, same, Television antenna, filed June 13, 1953, D. C., N. D. Ohio (Cleveland), Doc. 30343, *The Finney Co. et al. v. Skyline Mfg. Co., Inc., et al.*

2,568,542, A. A. Friestedt, Non-skid tire, filed June 12, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1378, *Tire Wire Products Co., Inc. v. Fred B. Friestedt.*

2,600,276. (See 2,630,295.) 2,601,555. (See 2,505,428.)

2,605,342, S. D. Spurling, Fire alarm system, filed June 12, 1953, D. C., N. D. Ga. (Atlanta), Doc. 4608, *S. D. Spurling et al. v. F. M. Rogers Co.*

2,611,935, Kramer & Stapp, Ventilated awning, filed June 10, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15509–C, *D. Kramer et al. v. S. Rosenmutter et al.*

2,623,558, A. E. Andersson, Machine for removing bark from logs, filed May 15, 1953, D. C., W. D. Wash. (Seattle), Doc. 3452, *Soderhamn Machine Mfg. Co. et al. v. Nicholson Mfg. Co.*

2,630,295, 2,630,296, M. B. Lucker, Automobile jack; 2,637,523, 2,600,276, same, Lifting jack, filed June 16, 1953, D. C., E. D. Pa. (Philadelphia), Doc. 15404, *Auto Specialties Mfg. Co. v. Glove Fabricated Products Co.*

2,630,296. (See 2,630,295.) 2,630,531. (See 2,566,287.)

2,633,368, W. Ross, Stabilizer device for vehicles, filed June 16, 1953, D. C., E. D. Mich. (Detroit), Doc. 12705, *Gyro-Skid Control Co., Inc. v. Simplex Products, Inc.*

2,637,523. (See 2,630,295.)

Re. 21,566 (of 2,046,312), L. D. Anderson, Process of concentrating ores, filed June 10, 1953, D. C. New Mexico (Albuquerque), Doc. 2376, *Potash Co. of America v. Southwest Potash Corp.*

Des. 165,788, J. Risom, Armchair, filed June 17, 1953, D. C., E. D. N. Y. (Brooklyn), Doc. 13564, *Jens Risom Design, Inc. v. J. G. Furniture Co., Inc.*

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946

T. M. 178,783, T. M. 178,785, National Biscuit Co., Biscuit; T. M. 316,925, T. M. 358,436, T. M. 375,595, same, Bakery products, filed June 12, 1953, D. C., S. D. N. Y., Doc. 85/360, *National Biscuit Co. v. National Broadcasting Co., Inc.*

T. M. 178,785. (See T. M. 178,783.)

T. M. 316,925. (See T. M. 178,783.)

T. M. 334,168, St. George Textile Corp., Rayon and cotton piece goods, filed June 16, 1953, D. C., S. D. N. Y., Doc. 85/384, *St. George Textile Corp. v. Goldstein & Levin.*

T. M. 344,376, American Automobile Association, Signs, mechanical or structural, etc., filed June 9, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15593–WM, *American Automobile Association v. Powerhouse Battery Co. et al.*

T. M. 358,436. (See T. M. 178,783.)

T. M. 375,595. (See T. M. 178,783.)

T. M. 407,965, Marcus Breier's Sons, Sportswear and wearing apparel, filed June 12, 1953, D. C., S. D. N. Y., Doc. 85/357, *Marcus Breier Sons, Inc. v. Arkansas Co., Inc.*

T. M. 571,203, Lekas & Drivas, Inc., Cheese, filed June 17, 1953, D. C., S. D. N. Y., Doc. 86/4, *Lekas & Drivas, Inc. v. Epicure Fruit Gift Shop et al.*

NOTICES

Cancellation Notice

[No. 6084]

Philip R. Meyers, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Wm. Sanderson & Son Ltd., 11 Quality Street, Leith, Edinburgh, Scotland, to effect the cancellation of trade-mark registration of Philip R. Meyers of 271 Madison Avenue, New York, N. Y., No. 377,820 dated May 14, 1940, and the notice of such proceeding sent by registered mail to the said Philip R. Meyers at the said address having been returned by the post office as being undeliverable, notice is hereby given that unless Philip R. Meyers, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published for three consecutive weeks. (Date of first publication—Sept. 1, 1953.)

ARTHUR W. CROCKER,
Assistant Commissioner of Patents.

Aug. 4, 1953.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,617,759. Salt Water Evaporator. Patented Nov. 11, 1952. Evaporator in which salt water is conducted from an ocean, sea, or the like into a pair of salt-water-receiving tanks and then through a shorter mixing tank into a boiler positioned above the firebox of a furnace. A conduit connecting the mixing tank to the boiler is provided with a hand-operated valve to control the flow of salt water into the boiler. As salt water in the boiler is heated, water vapor passes through a pointed hood at the top of the boiler into U-shaped condenser tubes in the salt-water-receiving tanks and is cooled and condensed by the cold salt water in the tanks. The resultant condensate drains into distilled-water-receiving tanks. Baffles in the hood obstruct the flow of water particles into the condenser tubes. A salt-removal door is provided in the boiler. (Owner) James E. Joyner, P. O. Box 1265, Salt Lake City 10, Utah. Group 35—69. Reg. No. 51,467.

Pat. 2,561,116. Variable Resistor. Patented July 17, 1951. Volume control unit for electronic equipment, particularly home radios and the like, is tightly sealed to effectively prevent the entry of all dirt, moisture, or other foreign matter. An inner vacuum-sealed glass envelope snugly fitted within an outer sealed casing contains a resistance and a cooperating sliding contact therefor. A pair of cooperating rotatable magnet assemblies constituting a magnetic inductive coupling are disposed one on each side of a nicely finished glass cover disc of the envelope. The inner magnet assembly is operatively connected to the sliding contact, and the outer magnet assembly is mounted on a shaft which extends outwardly through and is supported by a sealed lid of the outer casing. Rotation of the outer magnet assembly causes the inner magnet assembly to rotate a corresponding amount to adjust the sliding contact. A stop limits rotation of the outer magnet assembly so that the sliding contact always remains in contact with the resistance. (Owner) Zygmunt N. Hof, 250 West 82d St., New York 24, N. Y. Group 36—19—61—62. Reg. No. 51,468.

Pat. 2,451,995. Lamp for Hospital Beds. Patented Oct. 19, 1948. Lamp for hospital beds which may be adjusted from any degree of brightness to almost complete darkness. If desired, the light rays may be directed away from the patient, but with sufficient light to be of service to a nurse. A disc base to rest upon a tubular portion of a bed supports a cylindrical body having a socket for an electric bulb. A hood is spaced above the cylindrical body, and an apertured cylindrical closure slidable upwardly on the body closes the space between the body and hood. The closure may be rotatably adjusted about the body so light rays from the lamp may be directed through the aperture in predetermined directions. May also be used with a table lamp. (Owner) E. P. Truesdale, 219 Hampton St., Rock Hill, S. C. Groups 32—29; 34—81. Reg. No. 51,469.

Des. 157,450. Design for a Game Board. Patented Feb. 21, 1950. (Term of patent 14 years.) (Owner) E. P. Truesdale, 219 Hampton St., Rock Hill, S. C. Group 39—41. Reg. No. 51,470.

Pat. 2,628,509. Hydrodynamic Transmission. Patented Feb. 17, 1953. Automatic variable speed hydrodynamic transmission includes a driving and a driven shaft in alignment and auxiliary shafts positioned radially and forming respectively equal determined angles of incidence with the driving and driven shafts. Direct and reverse driven bevel gears independently rotatable upon the driven shaft are in geared relation with the auxiliary shafts, and a clutch member is slidably mounted on the driven shaft to selectively connect and disconnect each of the driven bevel gears with the driven shaft. Hydraulic couplers are mounted upon each of the auxiliary shafts, each coupler having a pump rotor member and a turbine rotor member. The pump rotor members are rotatably mounted on the auxiliary shafts and geared to the driving shaft. The turbine rotor members are fixedly secured to the auxiliary shafts. The hydraulic couplers are substantially filled with coupler liquid, and means are provided for exhausting the liquid and injecting cooled liquid alternately in the couplers. (Owner) Bandilio J. Piqué, Calle 12 No. 209 entre 4a y 5a, Ampliación de Almendares, Marianao, Havana, Cuba. Groups 35—66; 38—31. Reg. No. 51,471.

The Bell Telephone Company of Canada, present owner of the following four patents, offers them for licensing on reasonable terms. Inquiries regarding licenses should be addressed to: Northern Electric Company, Limited, 1050 Beaver Hall Hill, Montreal, Quebec, Canada.

Two of the patents, No. 2,265,145 and No. 2,278,690, formerly owned by American Telephone and Telegraph Company, and the other two patents, No. 2,504,709 and No. 2,504,804, formerly owned by Northern Electric Company, Limited, were previously entered on the *Register* by the former owners and listed in the *Register* section of the OFFICIAL GAZETTE, Sept. 20, 1949, and Aug. 5, 1952, respectively. In view of the change of ownership of the patents, they have been removed from the *Register* as being available for licensing by the former owners.

Pat. 2,265,145. Frequency Modulator. Patented Dec. 9, 1941. In this form of oscillation generator and frequency modulator a tube of the electron beam type is set up to generate high frequency oscillations, the tube and the circuit attached thereto including a simple arrangement for varying the frequency of the generated oscillations in accordance with signals or other effects. The electron beam tube comprises the usual electrodes of a cathode-ray tube and, in addition, an anode which is positioned at a predetermined angle with respect to the mean path of the electron beam. The signals or other effects which are applied to the tube electrodes are employed to deflect the electron beam so that it will travel over a distance which will correspond to the signal or effect impressed upon the tube electrodes. As the electron beam traverses a shorter or longer path, a higher or lower frequency will be obtained from the system. Group 36—19. Reg. No. 51,472.

Pat. 2,278,690. Frequency Control System. Patented Apr. 7, 1942. In this patent, which is a continuation-in-part of Pat. 2,265,145, a modified arrangement maintains the mean or base frequency of the generated current of the electron beam tube substantially constant. This may be accomplished by obtaining a small D. C. voltage from the fluctuations of the mean or base frequency and causing this D. C. voltage to act as a bias which may be applied to the electrodes upon which the signals or other effects may be impressed. This bias may be controlled automatically; that is, the bias will have a polarity which will correspond to the direction of change in the mean or base frequency, and its magnitude will increase or decrease by an amount which will correspond to the shift in the mean frequency from its assigned value. Group 36—19. Reg. No. 51,473.

Pat. 2,504,709. Switch Bank Contact Cleaner. Patented Apr. 18, 1950. A pistol-shaped power-driven cleaning tool for burnishing switch bank contacts of automatic telephone systems. The tool has six arcuately shaped cleaning blades grouped into three pairs, each pair actuated in a lateral arc by a lever under the control of three cams. Group 35—41. Reg. No. 51,474.

Pat. 2,504,804. Electrical Protective Apparatus. Patented Apr. 18, 1950. A replaceable protective device for protecting electrical equipment from damage due to abnormal voltages. A section of fuse wire is connected between a pair of terminals connected in series with an exposed outside line and the equipment to be protected. A grounded electrode encircling the fuse wire is insulated therefrom. Accidental high voltage will melt and rupture the fuse wire, and any resulting arc between the terminals will be diverted through the grounded electrode. Group 36—19. Reg. No. 51,475.

General Electric Company is prepared to grant non-exclusive licenses *in the field of radio purposes* under the following 22 patents, upon reasonable terms, to domestic manufacturers. Applications for licenses may be addressed to: Manager, Patent Services Department, General Electric Company, 1 River Road, Schenectady, N. Y. Group 36—61.

Pat. 2,558,001. Generation of Electromagnetic Waves by Doppler Effects. Patented June 26, 1951. Reg. No. 51,476.

Pat. 2,613,332. Electric Discharge Device. Patented Oct. 7, 1952. Reg. No. 51,477.

Pat. 2,615,090. Automatic Tone Control. Patented Oct. 21, 1952. Reg. No. 51,478.

Pat. 2,615,091. Screened High-Frequency Circuit Element. Patented Oct. 21, 1952. Reg. No. 51,479.

Pat. 2,616,078. Radio Detection and Ranging System. Patented Oct. 28, 1952. Reg. No. 51,480.

Pat. 2,617,093. Radio Apparatus for Indicating Speed and Course of Objects. Patented Nov. 4, 1952. Reg. No. 51,481.

Pat. 2,617,956. High-Frequency Discharge Device. Patented Nov. 11, 1952. Reg. No. 51,482.

Pat. 2,617,957. Gaseous Electric Discharge Device. Patented Nov. 11, 1952. Reg. No. 51,483.

Pat. 2,617,967. Magnetron. Patented Nov. 11, 1952. Reg. No. 51,484.

Pat. 2,617,984. Time Interval Measuring System. Patented Nov. 11, 1952. Reg. No. 51,485.

Pat. 2,620,405. Magnetic Recorder. Patented Dec. 2, 1952. Reg. No. 51,486.

Pat. 2,620,439. Noise Balancing Circuits. Patented Dec. 2, 1952. Reg. No. 51,487.

Pat. 2,621,263. Pulse Amplifier. Patented Dec. 9, 1952. Reg. No. 51,488.

Pat. 2,624,875. Pulse Echo System With Time Sensitivity Control. Patented Jan. 6, 1953. Reg. No. 51,489.

Pat. 2,625,346. Level Winding Mechanism. Patented Jan. 13, 1953. Reg. No. 51,490.

Pat. 2,625,603. Television Pulse Separation Circuit. Patented Jan. 13, 1953. Reg. No. 51,491.

Pat. 2,625,678. Radiant Energy Navigational Device. Patented Jan. 13, 1953. Reg. No. 51,492.

Pat. 2,627,414. Phonograph Turntable Mechanism. Patented Feb. 3, 1953. Reg. No. 51,493.

Pat. 2,627,351. Ultrahigh-Frequency Transmission Structure. Patented Feb. 3, 1953. Reg. No. 51,494.

Pat. 2,627,588. Electromagnetic Scanning Amplifier Circuit. Patented Feb. 3, 1953. Reg. No. 51,495.

Pat. 2,629,819. Load Compensating Network. Patented Feb. 24, 1953. Reg. No. 51,496.

Pat. 2,631,240. Sweep Voltage Generator. Patented Mar. 10, 1953. Reg. No. 51,497.

General Electric Company is prepared to grant *non-exclusive licenses to industrial concerns under the following 2 patents on a reasonable royalty basis to manufacture, use, and sell betatron and synchrotron apparatus*, and is further prepared to grant *free non-exclusive licenses under such patents to educational or similar institutions to construct betatron or synchrotron apparatus by the use of the institutions' own facilities and to use such betatron and synchrotron apparatus for non-profit purposes.* Applications for licenses may be addressed to: Manager, Patent Services Department, General Electric Company, 1 River Road, Schenectady, N. Y.

Pat. 2,622,194. Apparatus for Accelerating Charged Particles. Patented Dec. 16, 1952. Group 36—19. Reg. No. 51,498.

Pat. 2,627,552. Resonator Structure. Patented Feb. 3, 1953. Group 36—19. Reg. No. 51,499.

Dedicated Patents

In accordance with a Consent Decree in Civil Action No. 5152 in the U. S. District Court for the District of New Jersey, Westinghouse Electric Corporation, having a principal place of business at East Pittsburgh, Pennsylvania, has, by an instrument recorded in the U. S. Patent Office, dedicated 240 patents under "Exhibit A" of the decree to the public for free use, effective retroactively as of June 1, 1953.

The listing of the dedicated patents began under Schedule I in the OFFICIAL GAZETTE of August 25, 1953, and is concluded under Schedule II in this issue.

SCHEDULE II

Pat. 2,229,950. Arrangement for Controlling the Voltage of Alternating Current Circuits. Patented Jan. 28, 1941.

Pat. 2,230,869. Enclosed Circuit Interrupter. Patented Feb. 4, 1941.

Pat. 2,231,683. Commutator Regulator. Patented Feb. 11, 1941.

Pat. 2,231,708. Circuit Breaker. Patented Feb. 11, 1941.

Pat. 2,231,723. Electric Furnace. Patented Feb. 11, 1941.

Pat. 2,233,605. Circuit Interrupter. Patented Mar. 4, 1941.

Pat. 2,234,275. Insulator Bushing. Patented Mar. 11, 1941.

Pat. 2,234,361. Turbine Locomotive. Patented Mar. 11, 1941.

Pat. 2,235,074. Circuit Interrupter. Patented Mar. 18, 1941.

Pat. 2,235,388. Vapor Electric Device. Patented Mar. 18, 1941.

Pat. 2,235,474. System for Directly Transforming the Frequency of Polyphase Alternating Currents. Patented Mar. 18, 1941.

Pat. 2,235,903. Core Structure for Dynamoelectric Machines. Patented Mar. 25, 1941.

Pat. 2,238,608. Method of Manufacturing Metallic Oxide Rectifiers. Patented Apr. 15, 1941.

Pat. 2,238,611. Self-Excitation of Alternating Current Generators. Patented Apr. 15, 1941.

Pat. 2,239,554. Circuit Interrupter. Patented Apr. 22, 1941.

Pat. 2,239,641. Elastic Sleeve Connection. Patented Apr. 22, 1941.

Pat. 2,240,598. Electric Drill. Patented May 6, 1941.

Pat. 2,242,946. Electric Discharge Apparatus. Patented May 20, 1941.

Pat. 2,246,289. Reversing System for Asynchronous Motors. Patented June 17, 1941.

Pat. 2,246,308. Converter System. Patented June 17, 1941.

Pat. 2,246,324. Overload Protective Relay. Patented June 17, 1941.

Pat. 2,246,904. Insulator Including Clamping Means for Supporting High Potential Conductors. Patented June 24, 1941.

Pat. 2,247,201. Circuit Breaker Operating Means. Patented June 24, 1941.

Pat. 2,248,929. Welding Timer. Patented July 15, 1941.

Pat. 2,249,006. Circuit Interrupter. Patented July 15, 1941.

Pat. 2,252,488. Pressure-Sealing Fastening for Vessel Covers. Patented Aug. 12, 1941.

Pat. 2,253,370. Welding Timer. Patented Aug. 19, 1941.

Pat. 2,253,390. Circuit Interrupter. Patented Aug. 19, 1941.

Pat. 2,254,029. Spindle Press Drive. Patented Aug. 26, 1941.

Pat. 2,254,896. Method and Means for Adding Large Loads to Idling Generators. Patented Sept. 2, 1941.

Pat. 2,254,899. System for Maintaining Constant Rotational Speed of Electric Machines. Patented Sept. 2, 1941.

Pat. 2,254,903. Motor Control System. Patented Sept. 2, 1941.

Pat. 2,254,917. Cooling System for Electric Devices. Patented Sept. 2, 1941.

Pat. 2,254,918. Voltage Regulator. Patented Sept. 2, 1941.

Pat. 2,254,941. Relay System. Patented Sept. 2, 1941.

Pat. 2,255,926. Electrical Apparatus. Patented Sept. 2, 1941.

Pat. 2,255,927. Enclosed Circuit Interrupter. Patented Sept. 16, 1941.

Pat. 2,258,136. Hydraulic Governor. Patented Oct. 7, 1941.

Pat. 2,259,289. Half-Wave Spot Welding. Patented Oct. 14, 1941.

Pat. 2,259,313. Contact Converter. Patented Oct. 14, 1941.

Pat. 2,259,321. Lighting Device. Patented Oct. 14, 1941.

Pat. 2,261,661. Protective Means for Electrical Apparatus. Patented Nov. 4, 1941.

Pat. 2,261,667. Electrical Resistance. Patented Nov. 4, 1941.

Pat. 2,261,675. High-Tension Electrical Measuring Device. Patented Nov. 4, 1941.

Pat. 2,261,676. Voltage Regulator. Patented Nov. 4, 1941.

Pat. 2,261,678. Electrical Flasher System. Patented Nov. 4, 1941.

Pat. 2,261,685. Conversion System. Patented Nov. 4, 1941.

Pat. 2,261,686. Circuit Interrupter. Patented Nov. 4, 1941.

Pat. 2,261,694. Welding Wide Sheets. Patented Nov. 4, 1941.

Pat. 2,261,695. Lighting Unit. Patented Nov. 4, 1941.

Pat. 2,261,697. Bearing. Patented Nov. 4, 1941.

Pat. 2,261,699. Rectifier Arrangement. Patented Nov. 4, 1941.

Pat. 2,261,701. Power-Transmission System for Electrically Driven Trains. Patented Nov. 4, 1941.

Pat. 2,261,702. Annealing Furnace. Patented Nov. 4, 1941.

Pat. 2,261,711. Circuit Breaker. Patented Nov. 4, 1941.

Pat. 2,261,712. Circuit Breaker. Patented Nov. 4, 1941.

Pat. 2,261,720. High Power Circuit Breaker. Patented Nov. 4, 1941.

Pat. 2,261,721. Circuit Breaker Opening and Reclosing System. Patented Nov. 4, 1941.

Pat. 2,261,725. Selenium Rectifier. Patented Nov. 4, 1941.

Pat. 2,261,727.. Rectifier System. Patented Nov. 4, 1941.

Pat. 2,261,733. Lighting Apparatus. Patented Nov. 4, 1941.

Pat. 2,270,404. Fuse. Patented Jan. 20, 1942.

Pat. 2,271,890. Surge Voltage Protection for Electrical Apparatus. Patented Feb. 3, 1942.

Pat. 2,273,712. Laundry Machine Mounting. Patented Feb. 17, 1942.

Pat. 2,280,973. Winding Machine. Patented Apr. 28, 1942.

Pat. 2,280,977. High Temperature Heating Unit and Method of Making Same. Patented Apr. 28, 1942.

Pat. 2,280,987. Method and Connection for Starting Alternating Current Motors. Patented Apr. 28, 1942.

Pat. 2,282,219. Drive for Encased Switch Devices. Patented May 5, 1942.

Pat. 2,285,634. Conversion System. Patented June 9, 1942.

Pat. 2,285,643. Arc Chute for Electric Circuit Breakers. Patented June 9, 1942.

Pat. 2,285,691. Switching Device. Patented June 9, 1942.

Pat. 2,287,875. Circuit Breaker. Patented June 30, 1942.

Pat. 2,288,050. Lightning Arrester. Patented June 30, 1942.

Pat. 2,290,320. Circuit Breaker Mechanism. Patented July 21, 1942.

Pat. 2,290,367. Circuit Breaker With an Automatic and Manual Release. Patented July 21, 1942.

Pat. 2,290,516. Enclosed Circuit Interrupter. Patented July 21, 1942.

Pat. 2,290,683. Circuit Breaker Control. Patented July 21, 1942.

Pat. 2,291,781. Current Collector. Patented Aug. 4, 1942.

Pat. 2,292,187. Small Automatic Circuit Breaker. Patented Aug. 4, 1942.

Pat. 2,293,407. Reduction Gear. Patented Aug. 18, 1942.

Pat. 2,295,286. Multi-Pole Synchronous Motor. Patented Sept. 8, 1942.

Pat. 2,297,472. Phase Connection for Mechanical Rectifiers. Patented Sept. 29, 1942.

Pat. 2,298,114. Spark Gap Device. Patented Oct. 6, 1942.

Pat. 2,298,130. Frequency Converter. Patented Oct. 6, 1942.

Pat. 2,300,515. Electron Tube Regulator. Patented Nov. 3, 1942.

Pat. 2,300,868. Electrical Switching Device. Patented Nov. 3, 1942.

Pat. 2,301,698. Synchro-Tie Unit. Patented Nov. 10, 1942.

Pat. 2,301,752. Arrangement for Improving the Commutation in Contact Converters. Patented Nov. 10, 1942.

Pat. 2,303,443. Damping Device for Circuit Interrupters. Patented Dec. 1, 1942.

Pat. 2,303,505. Electric Discharge Apparatus. Patented Dec. 1, 1942.

Pat. 2,306,263. Method of Manufacturing Contact Pin. Patented Dec. 22, 1942.

Pat. 2,307,205. Magnet System. Patented Jan. 4, 1943.

Pat. 2,307,500. Protective Relay System. Patented Jan. 5, 1943.

Pat. 2,310,131. Windings for Single-Phase Series Motors. Patented Feb. 2, 1943.

Pat. 2,310,145. Single or Polyphase Switch Arrangement. Patented Feb. 2, 1943.

Pat. 2,310,444. Dry-Type Rectifier. Patented Feb. 9, 1943.

Pat. 2,310,456. Explosion-Proof Lamp Fitting. Patented Feb. 9, 1943.

Pat. 2,310,470. Ventilation of Dynamo-Electric Machines. Patented Feb. 9, 1943.

Pat. 2,310,792. Converter. Patented Feb. 9, 1943.

Pat. 2,312,174. Circuit Interrupting Apparatus. Patented Feb. 23, 1943.

Pat. 2,313,153. Automatic Reclosing Circuit Breaker System. Patented Mar. 9, 1943.

Pat. 2,316,905. Selenium Rectifier. Patented Apr. 20, 1943.

Pat. 2,318,042. Circuit Interrupter. Patented May 4, 1943.

Pat. 2,318,068. Electrical Winding. Patented May 4, 1943.

Pat. 2,318,279. Compensating Arrangement for Thermal Relays. Patented May 4, 1943.

Pat. 2,320,959. Control System for Vehicles Driven by Single-Phase Current. Patented June 1, 1943.

Pat. 2,327,799. Circuit Breaker. Patented Aug. 24, 1943.

Pat. 2,333,547. Explosion-Proof Circuit Interrupter. Patented Nov. 2, 1943.

Pat. 2,337,833. Reflector Lamp. Patented Dec. 28, 1943.

Pat. 2,340,083. Spot Welder. Patented Jan. 24, 1944.

Pat. 2,340,098. Contact Rectifier. Patented Jan. 25, 1944.

Pat. 2,343,376. Circuit Interrupter. Patented Mar. 7, 1944.

Pat. 2,347,014. Thermal Switching Device. Patented Apr. 18, 1944.

Patent Removed from Register

Pat. 2,403,932. A Low-Freezing Oxidant. This patent, which was placed on the *Register* by E. I. du Pont de Nemours and Company and listed in the *Register* section of the OFFICIAL GAZETTE, Dec. 7, 1948, is hereby withdrawn.

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 1, 1953

[VOL. 674. NO. 1]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.
As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 640,112. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Filed Dec. 29, 1952.

MYVASEAL

Applicant claims ownership of Registration No. 536,943.
For Moulding Compounds Comprising Synthetic Rubber-Like Materials Particularly Useful for Moulding High Vacuum Gaskets.
Claims use since on or about Nov. 13, 1950.

CLASS 2

RECEPTACLES

Ser. No. 634,789. Herman H. Kleiss, Chicago, Ill. Filed Sept. 3, 1952.

POMPADOUR

For Shopping Bags Made of Imitation Leather.
Claims use since Jan. 15, 1952.

Ser. No. 635,671. O. B. Andrews Company, Chattanooga, Tenn. Filed Sept. 24, 1952.

NUNA-FLAP

Disclaimer is made of the word "Flap" apart from the mark as shown.
For Paperboard Shipping Cases.
Claims use since on or about Dec. 28, 1951.

Ser. No. 642,397. Farrington Manufacturing Company, Jamaica Plain, Boston, Mass. Filed Feb. 18, 1953.

Count

For Jewel Cases Made of Decorative Fabric Covered Metal.
Claims use since October 1951.

Ser. No. 642,398. Farrington Manufacturing Company, Jamaica Plain, Boston, Mass. Filed Feb. 18, 1953.

Duchess

For Jewel Cases Made of Decorative Fabric Covered Metal.
Claims use since August 1948.

Ser. No. 642,402. Farrington Manufacturing Company, Jamaica Plain, Boston, Mass. Filed Feb. 18, 1953.

Page

For Jewel Cases Made of Decorative Fabric Covered Metal.
Claims use since January 1950.

Ser. No. 642,403. Farrington Manufacturing Company, Jamaica Plain, Boston, Mass. Filed Feb. 18, 1953.

Peeress

For Jewel Cases Made of Decorative Fabric Covered Metal.
Claims use since September 1948.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 641,490. Aristocrat Leather Products, Inc., New York, N. Y. Filed Jan. 29, 1953.

LIFE size

Exclusive right to the word "Size" apart from the mark as here shown is disclaimed. Applicant claims ownership of Registrations Nos. 513,858, 532,170, and 541,080.
For Wallets and Billfolds.
Claims use since Dec. 1, 1952.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 645,299. Food Machinery and Chemical Corporation, San Jose, Calif. Filed Apr. 15, 1953.



Applicant claims ownership of Registrations Nos. 569,957, 569,958, and 569,959.

For Acetyl Peroxide, Ammonium Persulfate, Barium Nitrate, Benzene Hexachloride Technical Polysulphide Compound, Bromine-Liquid, Calcium Peroxide, Carbon Bisulfide, Carbon Tetrachloride, Caustic Soda, Chloral, Chlorine-Liquid, Dipotassium Phosphate, Ethylene Dibromide, Fire Extinguisher Fluid (Carbon Tetrachloride Base), Grain Fumigant No. 3 (80% Carbon Tetrachloride, 20% Carbon Bisulfide), Hydrogen Bromide, Hydrogen Peroxide 35%, Magnesia, Magnesium Peroxide, Methyl Bromide, Monopotassium Phosphate, Peracetic Acid, Phosphoric Acid (75 and 85%), Potassium Persulfate, Sodium Carbonate Peroxide, Sodium Perborate, Sodium Phosphate Mixture, Sodium Pyrophosphate Peroxide, Tetrapotassium Pyrophosphate, Thiophosphoryl Chloride, Tripotassium Phosphate, Urea Peroxide, Zinc Peroxide.

Claims use since Aug. 14, 1951.

CLASS 7

CORDAGE

Ser. No. 643,384. Maynard Tritsch, doing business as Midcontinent Twine Company, Plattsmouth, Nebr. Filed Mar. 9, 1953.

MIDCONTINENT

For Baler Twine and Binder Twine.
Claims use since Feb. 17, 1953.

Ser. No. 643,761. John H. Graham & Co. Inc., New York, N. Y. Filed Mar. 17, 1953.

SELLCORD

For Cordage.
Claims use since Jan. 30, 1953.

CLASS 10

FERTILIZERS

Ser. No. 643,184. Port Fertilizer & Chemical Company, Los Fresnos, Tex. Filed Mar. 5, 1953.

PORT BRAND

The use of the word "Brand" is disclaimed, apart from the mark as shown.
For Fertilizers.
Claims use since August 1941.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 641,158. Frederic P. Thompson, doing business as The Shippers Supply Co. of N. E., Watertown, Mass. Filed Jan. 22, 1953.

Master Shippers

For Stencil Ink, Fountain Marker Ink, Ink Stamp Pads, Stamp Pad Ink, Fountain Brush Ink.
Claims use since Aug. 15, 1951.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 628,833. Universal Form Clamp Co., Chicago, Ill. Filed Apr. 28, 1952. (Sec. 2f.)

UNI-FORM

In this application, no registration rights are claimed for the word "Form" apart from the mark shown. Applicant claims ownership of Registration No. 281,872.
For Concrete Construction Forms and Parts for the Forms.
Claims use since January 1920.

Ser. No. 642,790. Wheeling Corrugating Company, Wheeling, W. Va. Filed Feb. 25, 1953.



The trade-mark consists of applicant's characteristic emblem painted on the side of a compressed lath package, the painted emblem being of a color which contrasts with the color of the lath as packaged, no claim being made to a particular color or to the representation of the package.
For Metal Lath.
Claims use since on or about Jan. 5, 1953.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 643,755. The Cleveland Chain & Mfg. Co., Cleveland, Ohio. Filed Mar. 17, 1953.

Minit-On

For Tire Chains.
Claims use since on or about Dec. 13, 1952.

Ser. No. 643,802. Washington Steel Products, Inc., Tacoma, Wash. Filed Mar. 17, 1953.



For Door Catches, Door Hinges, and Rolling Door Hangers.
Claims use since June 1950.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 624,251. Union Carbide and Carbon Corporation, New York, N. Y. Filed Jan. 29, 1952.

"SM"

Applicant claims ownership of Registration No. 384,665.
For Ferrochrome.
Claims use since Feb. 17, 1941.

Ser. No. 625,700. Tube Turns, Inc., Louisville, Ky. Filed Feb. 28, 1952.



Applicant claims ownership of Registration No. 523,795.
For Metal Forgings of Ferrous and Non-Ferrous Metals in the Rough and in Semi-Finished Form.
Claims use since June 1946.

Ser. No. 634,433. Webb Forging Company, Belleville, Mich. Filed Aug. 21, 1952.



For Forgings of Ferrous and Nonferrous Metals.
Claims use since May 6, 1952.

CLASS 15

OILS AND GREASES

Ser. No. 626,760. Swan-Finch Oil Corporation, New York, N. Y. Filed Mar. 20, 1952.



The lining represents red. The term "Established 1853" is disclaimed except in association with the trade-mark as shown. Applicant claims ownership of Registration No. 234,048.
For Internal Combustion Engine Lubricating Oils, Gear Lubricants, Lubricating Greases, Upper Cylinder Lubricants, Wire Rope Lubricants, Hydraulic Oils, Lubricating Oils, Cutting and Drawing Lubricants (Oil), Cutting and Drawing Lubricants (Paste), Quenching Oils, Emulsifiable Oils for Lubrication in Machine Shop Operation, Soluble Oils for Lubrication in Machine Shop Operation, Tempering Oils, Marine Engine Oils and Lard Oil for Lubricating Purposes, Waxes (Petroleum).
Claims use since Apr. 21, 1927.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 605,644. De Soto Paint & Varnish Co., Memphis, Tenn. Filed Oct. 31, 1950. (Sec. 2f.)



The drawing is lined for red.
For Paint Products for Interior and Exterior Use—Namely, House Paint, Exterior Paste Paint, Barn Paint, Flat Wall Paint, Varnish Stain, Enamels, Porch and Floor Paint, Truck and Implement Paint, Screen Enamel, Ready Mixed Aluminum Paint.
Claims use since February 1911.

Ser. No. 621,095. Wesco Waterpaints, Inc., Berkeley, Calif. Filed Nov. 9, 1951.

HI FLITE

Applicant claims ownership of Registration No. 355,447.
For Flat Wall Paint.
Claims use since on or about Mar. 8, 1951.

Ser. No. 621,321. Lazy Susan Products, Venice, Fla. Filed Nov. 16, 1951.

Lazy Susan Products

No exclusive claim is made to the word "Products" apart from the mark shown on the drawing.

For Protective and Preservative Sealer and Finisher Coating Preparation for Paneling, Floors, and Furniture.

Claims use since Sept. 1, 1951.

Ser. No. 631,015. Benjamin Moore & Co., New York, N. Y. Filed June 10, 1952.

DULAMEL

For Paint Enamels.

Claims use since 1924.

Ser. No. 631,017. Benjamin Moore & Co., New York, N. Y. Filed June 10, 1952.

SANI-FLAT

Applicant disclaims the word "Flat" apart from the mark shown. Applicant claims ownership of Registration No. 223,660.

For Ready Mixed Paints.

Claims use since July 1908.

Ser. No. 631,365. Benjamin Moore & Co., New York, N. Y. Filed June 18, 1952.

STIL-WITE

Applicant disclaims the word "Wite" apart from the mark shown.

For Enamels.

Claims use since Sept. 1, 1950.

Ser. No. 639,586. Benjamin Moore & Co., New York, N. Y. Filed Dec. 16, 1952.

MOOROIL

Applicant disclaims the word "Oil" apart from the mark shown. Applicant claims ownership of Registrations Nos. 31,906, 85,468, and 282,686.

For Paint Oil.

Claims use since Nov. 12, 1952.

Ser. No. 640,527. Progress Paint Mfg. Co., Inc., Louisville, Ky. Filed Jan. 8, 1953.

Feature

For Wall Paints, Floor Paints, House Paints, Roof Paints, Enamels, Varnishes, and Stains.

Claims use since Dec. 31, 1952.

Ser. No. 641,027. E. I. du Pont de Nemours and Company, Wilmington, Del. Original filed, act of 1946, Supplemental Register, Jan. 21, 1953; amended to application, Principal Register, June 12, 1953.

PYRA-PREP

No claim is made to the word "Prep" apart from the mark as shown.

For Lacquer Primer-Sealer.

Claims use since at least as early as August 1939.

CLASS 19

VEHICLES

Ser. No. 617,931. Reynolds Manufacturing Company, Springfield, Mo. Filed Aug. 21, 1951.

REYCO

For Brake Drums and Resilient Axle Suspensions for Automotive Trucks and Trailers.

Claims use since June 1931.

Ser. No. 621,081. N. V. Nederlandsche Machinefabriek "Artillerie Inrichtingen," Hembrug, Zaandam, Netherlands. Filed Nov. 9, 1951.

Applicant claims ownership of Dutch Registration No. 107,521, dated Jan. 11, 1951.

For Farm Trailers (Not Motorized).

Ser. No. 639,004. The Anderson Company, Gary, Ind. Filed Dec. 5, 1952.

"Show-Down"

For Windshield Wiper Blades for Use With Wiper Arms.

Claims use since August 1951.

Ser. No. 648,354. Belknap Hardware and Manufacturing Company, Louisville, Ky. Filed June 8, 1953.

BLUE GRASS

For Adult Bicycles Having Wheel Diameters of Over Fourteen Inches.

Claims use since 1920.

Ser. No. 648,914. Coast-In Pontiac Co., Inc., Washington, D. C. Filed June 17, 1953.

COAST-IN

For New and Used Automotive Vehicles—Namely, Automobiles and Highway Trucks, and Structural Parts Therefor.

Claims use since June 1929.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 616,360. Cutler-Hammer, Inc., Milwaukee, Wis. Filed July 12, 1951.

BREAKERPANEL

Applicant hereby disclaims the words "Breaker" and "Panel" for registration purposes apart from the mark as shown. Applicant claims ownership of Registrations Nos. 345,447, 375,799, and 537,677.

For Panelboards Embodying Electric Circuit Breakers.

Claims use since Dec. 13, 1949.

Ser. No. 631,238. Howard L. Fuston, Oak Park, Ill. Filed June 16, 1952.

HY-FY-R

For Ignition Circuit Breakers.

Claims use since May 14, 1952.

Ser. No. 633,208. N. V. Electroproducten, The Hague, Netherlands. Filed July 29, 1952.

RILOFLUX

Applicant claims ownership of Dutch Registration No. 108,833, dated Apr. 27, 1951.

For Electric Cycle Lighting Sets, Including Dynamos, Head Light Lamps, Reflectors, and Rearlights.

Ser. No. 636,793. Meteor Electric Corporation, Brooklyn, N. Y. Filed Oct. 17, 1952.

METEOR

Applicant claims ownership of Registrations Nos. 180,347, 299,830, and 300,218.

For Electric Connector Plugs; Electric Receptacles; Electric Cutouts; Electric Sockets; Electric Switches; Electric Transformers; Electric Switch Plates; Electric Extension Cords; Electric Appliance Cords; and Insulated Electric Wire.

Claims use since on or about July 1, 1924.

Ser. No. 637,365. Duode Limited, London, England. Filed Oct. 30, 1952.

DUODE

Applicant claims ownership of British Registration No. 705,281, dated Feb. 28, 1952.

For Loud Speakers.

Claims use since Nov. 30, 1951, in Great Britain; and since Nov. 30, 1951, in commerce between Great Britain and the United States.

Ser. No. 637,930. The Lincoln Electric Company, Cleveland, Ohio. Filed Nov. 12, 1952.

Squirt

For Electric Arc-Welding Apparatus.

Claims use since on or before Oct. 17, 1952.

Ser. No. 638,613. Societe Francaise Radio-Electrique, Paris, France. Filed Nov. 25, 1952.

SUBNITRON

Priority under Sec. 44(d). French application filed May 25, 1952, Registration No. 420,343, dated May 26, 1952.

For Electron Tubes.

Ser. No. 639,702. Moe Light, Inc., Fort Atkinson, Wis. Filed Dec. 18, 1952.

STAR

Applicant claims ownership of Registration No. 385,566.

For Electric Lighting Fixtures and Parts Thereof.

Claims use since June 1, 1938.

Ser. No. 640,285. Karl J. Kawalle, doing business under the name of Copper Boiler and Heater Wks., Manitowoc, Wis. Filed Jan. 2, 1953. (Sec. 2f.)

MANITOWOC

For Automatic Electric Water Heaters and Electric Fired Heating Boilers.

Claims use since June 8, 1935.

Ser. No. 640,643. International Rolling Mill Products Corporation, Chicago, Ill. Filed Jan. 12, 1953.

COLORLINE

For Electrical Metallic Tubing and Standard Conduits.

Claims use since Dec. 29, 1952.

Ser. No. 640,644. International Rolling Mill Products Corporation, Chicago, Ill. Filed Jan. 12, 1953.

TRACEWAY

For Electrical Metallic Tubing and Standard Conduits.

Claims use since Dec. 29, 1952.

Ser. No. 642,040. Midland Wire Corporation, Tiffin, Ohio. Filed Feb. 10, 1953.

MIDLENE

For Polyethylene Insulated Electric Wires and Cables.
Claims use since on or about July 1, 1949.

Ser. No. 642,041. Midland Wire Corporation, Tiffin, Ohio. Filed Feb. 10, 1953.

MIDPRENE

For Neoprene Insulated Electric Wires and Cables.
Claims use since on or about July 1, 1949.

Ser. No. 644,893. The William Brand and Co. Inc., Willimantic, Conn. Filed Apr. 8, 1953.

TURBOLAC

Applicant claims ownership of Registrations Nos. 211,714, 241,485, and others.
For Insulating Material for Electrical Insulation—Namely, Varnished or Lacquered Insulating Tubing and Saturated Sleeving Made in Whole or in Part of Braid Composed of One or More of the Following: Cotton, Rayon, Nylon, Fibrous Glass, and Textile Substitutes or Combinations Thereof.
Claims use since August 1951.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 589,993. Gordon H. Severin, Oklahoma City, Okla. Filed Dec. 27, 1949.



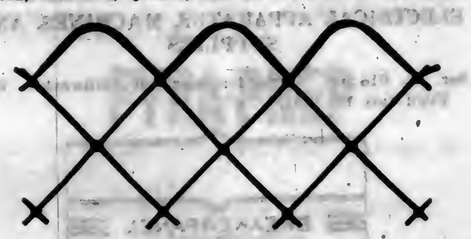
The words "Golf" and "The Game Everyone Loves" are disclaimed apart from the mark shown.
For Simulated Golf Game Especially But Not Exclusively Adapted for Indoor Use.
Claims use since Oct. 10, 1949.

Ser. No. 599,566. D. P. Harris Hardware & Manufacturing Co., Inc., New York, N. Y. Filed June 22, 1950. (Sec. 2f.)

"PREP"

For Roller Skates.
Claims use since Nov. 15, 1938.

Ser. No. 630,835. Drummondville Cotton Company, Limited, Montreal, Quebec, Canada. Filed June 6, 1952.



The trade-mark is in the form of a selvage of a blue colour applied along an edge of the netting. The illustration of the goods forms no part of the mark. Applicant claims ownership of Canadian Registration No. 160/40,907, dated Jan. 12, 1952.
For Nets for Use in the Fishing Industry.

Ser. No. 635,065. Sport Products, Inc., Cincinnati, Ohio, now by change of name MacGregor Sport Products Inc., a corporation of Ohio. Filed Sept. 9, 1952.

PLYLON

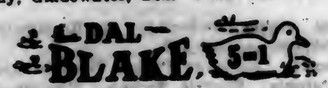
For Rubber Covered Game Balls—Namely, Basketballs, Footballs, Volley Balls, Playground Balls, Soft Balls, and Baseballs.
Claims use since Aug. 27, 1952.

Ser. No. 640,860. Kalvig & Co. Inc., Hackensack, Minn. Filed Jan. 16, 1953.

K-LUR

No claim is made to the word "Lur" apart from the mark as shown on the drawing.
For Artificial Fishing Lures.
Claims use since on or about June 18, 1952.

Ser. No. 641,121. Dal Blake, doing business as Gregg Tool Company, Gladewater, Tex. Filed Jan. 22, 1953.



The representation of the decoy and the designation "5 in 1" are disclaimed apart from the mark as shown on the drawing.
For Decoy Setter.
Claims use since on or about Dec. 15, 1951.

Ser. No. 641,438. Cortland Line Company, Inc., Cortland, N. Y. Filed Jan. 28, 1953.

SUPERCUTY

Applicant claims ownership of Registration No. 310,550.
For Fish Lines.
Claims use since on or about Mar. 6, 1931.

Ser. No. 642,391. G. W. D'Arcey Co., San Jose, Calif. Filed Feb. 18, 1953.

blockhead!

For Games Played With Sets of Building Blocks of Varied Shapes.
Claims use since Nov. 2, 1952.

Ser. No. 644,460. South Bend Toy Mfg. Co., South Bend, Ind. Filed Mar. 30, 1953.

Musi-Kab

For Musical Doll Carriages.
Claims use since Mar. 4, 1953.

Ser. No. 645,054. Northland Ski Manufacturing Company, North St. Paul, Minn. Filed Apr. 10, 1953.

PEE WEE PRO

The term "Pro" is disclaimed apart from the mark as shown.
For Hockey Sticks, Skis, Toboggans, and Snow Shoes.
Claims use since on or about Jan. 1, 1953.

Ser. No. 646,422. R. J. Pagliuso, doing business as Pagliuso Engineering Company, Glendale, Calif. Filed May 4, 1953.

PAGCO

For Spring-Propelled Mechanical Toy Race Cars and Fire Engines.
Claims use since Jan. 19, 1953.

Ser. No. 648,639. Airex Corporation, New York, N. Y. Filed June 12, 1953.

ABLETTE

For Fishing and Spinning Reels, Fishing and Spinning Rods, Fishing Plugs, Spinners, Lures, and Artificial Bait for Fish.
Claims use since Oct. 15, 1946.

Ser. No. 648,640. Airex Corporation, New York, N. Y. Filed June 12, 1953.

PRESKA

For Fishing and Spinning Reels, Fishing and Spinning Rods, Fishing Plugs, Spinners, Lures, and Artificial Bait for Fish.
Claims use since Oct. 15, 1946.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 580,229. The Colson Corporation, Elyria, Ohio. Filed June 10, 1949. (Sec. 2f.)



Applicant claims ownership of Registrations Nos. 508,342 and 533,395.
For Lift Jacks, Upender Devices Used for Upending Barrels and Drums, Industrial Lifting and Stacking Trucks and Parts Thereof, and Mop Wringers and Parts Thereof.
Claims use since Mar. 3, 1948.

Ser. No. 610,026. Rabaldo A. G., Unterengstringen, Zurich, Switzerland. Filed Feb. 13, 1951.

MULTIRAS

Priority is claimed under Sec. 44(d). Swiss application filed Aug. 17, 1950; Registration No. 134,693, dated Aug. 17, 1950.
For Power-Actuated Shavers and Dry Shavers Actuated by a Spring Motor Operated by Hand.

Ser. No. 613,201. Super Speed Press Corporation, Bridgeton, N. J. Filed Apr. 26, 1951. (Sec. 2f.)

SUPER SPEED PRESS

No claim of right to the word "Press" is made apart from the mark as shown.
For Metal Cutting Presses.
Claims use since on or about May 10, 1936.

Ser. No. 618,133. Sterling Machinery Corporation, Kansas City, Mo., and Los Angeles, Calif. Filed Aug. 27, 1951. (Sec. 2f.)



Applicant claims ownership of Registration No. 256,429.
For Portable Self-Priming Centrifugal Pumps, Power Hoists and Winches, Portable Wood-Sawing Rigs, and Power Lawn Mowers.
Claims use since September 1937.

Ser. No. 628,514. Rotaprint U. S. A. Inc., Joliet, Ill. Filed Apr. 11, 1952.

Rotaprint

For Printing Presses, Duplicating Machines, and Attachments Therefor.
Claims use since Mar. 9, 1951.

Ser. No. 636,450. Acme Staple Company, Camden, N. J. Filed Oct. 10, 1952.

ACME

Applicant claims ownership of Registrations Nos. 296,915 and 297,683.
For Stapling Machines, Binding Machines Using Metal Staples, and Tacking Machines Using Metal Staples.
Claims use since Nov. 30, 1894.

Ser. No. 637,812. Amplifier Corporation of America, New York, N. Y. Filed Nov. 8, 1952.

MAGNEMOTOR

For Spring Motors Used in Magnetic Sound Recording Apparatus.
Claims use since May 15, 1952.

Ser. No. 638,695. Clark Equipment Company, Buchanan, Mich. Filed Nov. 28, 1952.

STOWAY

For Power Operated Industrial Lift Trucks.
Claims use since Oct. 13, 1952.

Ser. No. 642,702. Solar Aircraft Company, San Diego, Calif. Filed Feb. 24, 1953.

SOLARAMIC

Applicant claims ownership of Registrations Nos. 398,416, 565,325, and 565,329.
For Ceramic Coated Exhaust Structures for Internal Combustion Engines—Namely, Exhaust Manifolds and Parts Therefor; and for Ceramic Coated Essentially Sheet Metal Jet Engine Components—Namely, Combustion Chambers, Liners, Transition Liners, Flame Shields, and Cross-Over Tubes; and for Turbosupercharger Nozzle Boxes and Parts Therefor.
Claims use since Feb. 2, 1953.

Ser. No. 643,828. The Fate-Root-Heath Company, Plymouth, Ohio. Filed Mar. 18, 1953.

TORQOMOTIVE

For Railroad Locomotives, the Power Source of Which Is an Internal Combustion Engine.
Claims use since Feb. 26, 1953.

Ser. No. 643,961. Byron Jackson Co., Los Angeles, Calif. Filed Mar. 20, 1953.

BJ

For Pumps Comprising Centrifugal Turbine and Rotary or Impeller Pumps and Parts Thereof.
Claims use since on or about May 2, 1949.

Ser. No. 644,040. Librascope, Incorporated, Glendale, Calif. Filed Mar. 23, 1953.

LIBRASCOPE

Applicant claims ownership of Registration No. 372,767.
For Boring Machines, i. e., Machines for Boring a Plurality of Holes in Predetermined Locations.
Claims use since Sept. 29, 1951.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 639,496. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern Brothers

For Ironing Board Covers and Clothes Pins.
Claims use since 1867.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 577,620. Technology Instrument Corporation, Waltham, Mass. Filed Apr. 23, 1949.

Z-ANGLE

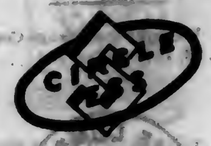
The letter "Z" is disclaimed apart from the mark.
For Instruments for Measuring the Phase Angle Between Alternating Currents or Voltages.
Claims use since July 15, 1946.

Ser. No. 583,110. Nuclear Instrument and Chemical Corporation, Chicago, Ill. Filed Aug. 6, 1949.



The background for the letter "a" is lined for red.
For Radio-Active Radiation Apparatus—Namely, Electronic Counters and Parts Thereof, Geiger Counting Tubes, Radiation Indicators for Radioactive Material and Parts Therefor, Ionisation Chambers, Electronic High Voltage Supply Units Designed for Ionisation Measurement, Radiation Shields, Sample Holders for Handling Radioactive Material, Lead Shields and Lead Bricks for Radioactive Material, Timers Which Operate an Electrical Circuit, Radiation Probes.
Claims use since Oct. 1, 1948.

Ser. No. 622,044. F. W. Stewart Mfg. Corp., Chicago, Ill. Original filed, act of 1946, Supplemental Register, Dec. 3, 1953; amended to application, Principal Register, Oct. 29, 1952.



For Speedometers and Parts Thereof, and Instruments for Testing Speedometers and Tachometers.
Claims use since Feb. 9, 1948.

Ser. No. 624,372. Skuttle Manufacturing Company, Detroit, Mich. Filed Jan. 31, 1952.

"Morning Comfort"

For Temperature and Humidity Controls—Namely, Control Units Adapted for Attachment Adjacent a Thermostat for a Heating Plant and Including a Timing Mechanism Which Can Be Set for Specific Times and an Electric Heating Element Which Is Started and Stopped at Such Times in Response to the Timing Mechanism To Produce Different Desired Temperatures at the Thermostat at Different Times.
Claims use since Jan. 7, 1952.

Ser. No. 631,570. Polaroid Corporation, Cambridge, Mass. Filed June 21, 1952.

POLAROID

Applicant claims ownership of Registrations Nos. 337,404, 388,047, and others.
For Devices for Applying Protective Coatings to Photographic Reproductions.
Claims use since Aug. 31, 1951.

Ser. No. 638,887. Aktiebolaget Addo, Malmo, Sweden. Filed Dec. 3, 1952.

Addo-X

Applicant claims ownership of Swedish Registration No. 64,006, dated Feb. 13, 1948.
For Adding and Calculating Machines and Cash Control and Book Keeping Machines and Parts.
Claims use since December 1935; and since in or about March 1939, in commerce between Sweden and the United States.

Ser. No. 640,220. Modi-Graphic Inc., Cincinnati, Ohio. Filed Dec. 31, 1952.

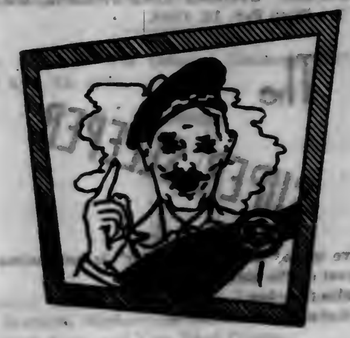
MODI-GRAPHIC

No claim is made to the exclusive right to the use of the term "Graphic" separate and apart from the mark as shown.
For Cameras for Use in Graphic Reproductions and Modifications.
Claims use since Nov. 15, 1952.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 640,868. Roscoe Dust Cloth Service, Inc., Chicago, Ill. Filed Jan. 16, 1953.



The representation of the man is fanciful. The drawing is lined to indicate green.
For Dust Cloths.
Claims use since Nov. 8, 1952.

Ser. No. 641,041. Gibson-Thomsen Co., Inc., New York, N. Y. Filed Jan. 21, 1953.

Admiration

For Hair Brushes, Nail Brushes, and Tooth Brushes.
Claims use since December 1923.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 638,802. Louisville Tin and Stove Company, Louisville, Ky. Filed Dec. 1, 1952.

Pleasure CHEST

The word "Chest" is disclaimed separate and apart from the mark as shown.
For Portable Ice Chests.
Claims use since Jan. 9, 1952.

Ser. No. 640,243. Thor Corporation, Chicago, Ill. Filed Dec. 31, 1952.

Thor

Applicant claims ownership of Registrations Nos. 119,454, 119,537, and 361,760.

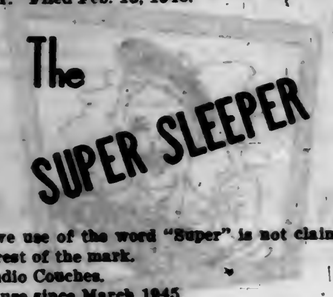
For Food Storage Freezers.

Claims use since Dec. 5, 1952.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 549,623. Eveready Sleep Products, Inc., Brooklyn, N. Y. Filed Feb. 13, 1948.



Exclusive use of the word "Super" is not claimed apart from the rest of the mark.

For Studio Couches.

Claims use since March 1945.

Ser. No. 589,971. Grand Rapids Bookcase & Chair Co., Hastings, Mich. Filed Dec. 27, 1949.



The lining indicates red. The words "Mattson" and "Modern" are disclaimed apart from the mark as shown.

Applicant claims ownership of Registration No. 396,411.

For Articles of Furniture—Namely, Tables, Desks, Cabinet Units, Drawer Units, Shelf Units, Chairs, Sofas, Benches, Stools, Mirrors, and Beds.

Claims use since Jan. 24, 1949.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 612,211. Massachusetts Heating Corporation, Cambridge, Mass. Filed Apr. 4, 1951.



For (1) Oil, Gas, and Coal Burners; (2) Oil, Gas, and Coal Boiler-Burner Units; (3) Oil, Gas, and Coal Combustion Chambers; (4) Oil, Gas, and Coal Forced and Induced Draft Fans.

Claims use since Feb. 7, 1949.

Ser. No. 620,646. Wrought Iron Range Company, St. Louis, Mo. Filed Oct. 29, 1951. (Sec. 2f.)

Home Comfort

Applicant claims ownership of Registration No. 61,357.

For Coal, Wood, Gas, and Oil Cooking Ranges, Space Heaters, Floor Furnaces, and Water Heaters.

Claims use since Sept. 15, 1881.

Ser. No. 620,651. Wrought Iron Range Company, St. Louis, Mo. Filed Oct. 29, 1951. (Sec. 2f.)



Applicant claims ownership of Registrations Nos. 61,357 and 367,411.

For Coal, Wood, Gas, and Oil Cooking Ranges, Space Heaters, Floor Furnaces, and Water Heaters.

Claims use since Sept. 15, 1881, as to "Home Comfort"; and since 1880, as to a somewhat modified sheaf of wheat.

Ser. No. 632,322. Penn Ventilator Company, Philadelphia, Pa. Filed July 9, 1952.

PENN AIRETTE

For Powered Roof Ventilators.

Claims use since Nov. 1, 1951.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 601,262. General Electric Company, Schenectady, N. Y. Filed July 26, 1950.



No claim is made to the representation of a phonograph record shown on the drawing apart from trade-mark illustrated.

For Phonograph Styli.

Claims use since Mar. 6, 1950.

Ser. No. 626,923. Dimitar Velkov, New York, N. Y. Filed Mar. 22, 1952.



No claim is made to the representation of the harmonica apart from the mark shown on the drawing.

For Harmonicas.

Claims use since Mar. 1, 1950.

CLASS 37

PAPER AND STATIONERY

Ser. No. 599,820. Emanee Office Supply Co., Chicago, Ill. Filed June 27, 1950.



The portrait upon the drawing is fanciful.

For Loose Leaf Binders; Writing Paper; Lead Pencils; Index Cards; Stenographers' Notebooks; Composition Books; and File Folders.

Claims use since Feb. 15, 1950.

Ser. No. 605,249. Asam Wallpapers, Inc., Philadelphia and Reading, Pa. Filed Oct. 21, 1950. (Sec. 2f.)



Applicant disclaims the word "Wallpapers" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 429,622 and 518,454.

For Wallpaper.

Claims use since 1925.

Ser. No. 625,845. Brock & Rankin, Inc., Chicago, Ill. Filed Mar. 3, 1952.



The word "Cover" is disclaimed apart from the mark as shown.

For Loose-Leaf Binders and Book Covers Having a Curved Backbone Consisting of Adhesively-Joined Layers of Paper or Fibre Board.

Claims use since Nov. 21, 1951.

Ser. No. 633,865. The Osborne Company, Clifton, N. J. Filed Aug. 13, 1952.



Applicant claims ownership of Registration No. 65,233.

For Blotters, Mechanical Pencils, Fountain Pens, Note Books, Desk Pads, and Note Book Covers.

Claims use since April 1907.

Ser. No. 641,501. Cochran Foil Company, doing business as Cochran Foil Products Co., Louisville, Ky. Filed Jan. 29, 1953. (Sec. 2f as to "Cochran.")

Cochran
Silv-o-Line

Exclusive use of the word "Line" apart from the mark shown is hereby disclaimed. Applicant claims ownership of Registration No. 550,792.

For Paper Backed Aluminum Foil for Household Uses Such as Covers for Shelves and Cabinet Drawers, Vermin-Protective Covers for Woolen Material and Furs, Wrappers for Wet Bundles and Gift Packages, and Decorative Material for Lamp Shades and Table Runners.

Claims use since Sept. 4, 1952, on the mark as shown; and since May 1940, on the word "Cochran."

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 595,824. Burndy Engineering Company, Inc., New York, N. Y. Filed Apr. 17, 1950. (Sec. 2f.)

THE WEDGE GASKET
Connector

For Publication Issued Periodically.

Claims use since January 1940.

Ser. No. 632,578. Weltronic Company, Southfield Township, Oakland County, and Detroit, Mich. Filed July 15, 1952.

WELTIMER

For Monthly Publication Distributed by It to Its Customers and Others.
Claims use since in the month of June 1938.

Ser. No. 632,669. Melville E. Foster, Minneapolis, Minn. Filed July 17, 1952.

ROLLAFAX

For Parts Charts Issued From Time to Time and Containing Lists of Parts With Prices Thereof and Technical Data Thereon.
Claims use since on or about Feb. 1, 1951.

Ser. No. 639,503. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern Brothers

For Books.
Claims use since 1867.

Ser. No. 641,299. Helms Bakeries, Los Angeles, Calif. Filed Jan. 26, 1953.

THE HELMSMAN'S WHEEL

For Monthly Publication Relating to Bakery Products.
Claims use since January 1936.

Ser. No. 641,722. Good Publishing Co., Fort Worth, Tex. Filed Feb. 4, 1953.

SEPIA
RECORD

Applicant, without waiving any common-law rights and for the purposes of this registration only, disclaims the right to exclusive use of the word "Record," forming a part of this trade-mark, apart from the remainder of the mark. Applicant claims ownership of Registration No. 416,725.
For Magazine of Articles and Photographs by, of and for Colored People.
Claims use since Jan. 1, 1952.

Ser. No. 642,293. The McNaught Syndicate, Inc., New York, N. Y. Filed Feb. 16, 1953.

SUSIE Q SMITH

The name "Susie Q. Smith" is fanciful.
For Daily and Sunday Comic Strip.
Claims use since Feb. 9, 1953.

Ser. No. 642,338. A. Asch, Incorporated, New York, N. Y. Filed Feb. 17, 1953.

PENETRATION

For House Organ Type Publication.
Claims use since Dec. 29, 1952.

Ser. No. 643,686. The Houston Chronicle Publishing Co., Houston, Tex. Filed Mar. 16, 1953.

THE HOUSTON CHRONICLE
AND HERALD

Applicant disclaims the exclusive right to the use of the word "Houston" when used apart from the mark. Applicant claims ownership of Registration No. 200,554.
For Daily Newspaper.
Claims use since December 1912.

Ser. No. 644,094. Bantam Books, Inc., New York, N. Y. Filed Mar. 24, 1953.

PENNANT BOOKS

No claim is made to the word "Books" apart from the association shown.
For Books.
Claims use since Mar. 6, 1953.

Ser. No. 644,810. Trailercoach Dealers National Association, Chicago, Ill. Filed Apr. 6, 1953.

Mobile Living

For Magazine Published Monthly.
Claims use since July 25, 1952.

CLASS 39

CLOTHING

Ser. No. 528,422. Austin Reed Ltd., London, England. Filed July 12, 1947.

Austin Reed

The name "Austin Reed" is the name of the founder of the firm, written consent being given.
For Dress Clothing—Namely, Full Dress Suits and Dinner Jackets; White Dress Vests; Flannel Trousers; Corduroy Trousers; Flannel Blazers; Linen Trousers; Dressing Gowns; Bath Gowns; Bed Jackets; House Jackets; Smoking Jackets; Lounge Suits; Overcoats; Raincoats; Sports Suits; Sports Jackets; Fancy Cloth Vests; Flannel and Tweed Plus-Fours; Jodhpurs; Riding Jackets; Riding Breeches; Shooting Jackets; Neckties; Gloves Made of Leather and Fabric or Combinations Thereof; Collars; Shirts; Socks; Hose; Mufflers; Wraps; Pullovers; Cardigans; Golf Jackets in Gabardine, Leather, and Wool; Sheepskin Vests; Knitted Vests; Suede Pullovers; Sweaters; Water-Proof Golf Trousers; Underwear With and Without Sleeves; Pajamas; Nightshirts; Boots and Shoes of Every Description; Spats; Leggings; Slippers; Hats and Caps; Bathing Suits; Beach Bathing Shorts; All the Apparel Listed Being for Use by Men.
Claims use since 1926; and first used in commerce between the United States and the United Kingdom of Great Britain and Northern Ireland since Dec. 31, 1926.

Ser. No. 597,876. Theo Rossi di Montelera, Turin, Italy. Filed May 22, 1950.

FLIP FLAP

Priority under Sec. 44(d). Italian application filed Nov. 25, 1949, Reg. No. 96,845, dated June 21, 1950.
For Hats for Men, Women, and Children.

Ser. No. 621,150. The J. L. Hudson Company, Detroit, Mich. Filed Nov. 13, 1951. (Sec. 2f as to "Hudson.")

HUDSON
MID-WEIGHT

The term "Mid-Weight" is disclaimed apart from the mark as shown in the drawing. Applicant claims ownership of Registrations Nos. 363,975, 385,016, and others.
For Men's Suits, Slacks, Jackets, and Topcoats.
Claims use since May 5, 1951, on the mark as shown; and since September 1927, on the word "Hudson."

Ser. No. 626,527. The Nobil Shoe Company, Akron, Ohio. Filed Mar. 15, 1952.

Nobility

For Women's Hosiery.
Claims use since 1938.

Ser. No. 632,531. Memphis Cap Co., Inc., Memphis, Tenn. Filed July 14, 1952.



No claim is made to the word "Cap" apart from the mark as shown. The representation of a person is fanciful.
For Men's Caps.
Claims use since May 15, 1952.

Ser. No. 632,532. Memphis Cap Co., Inc., Memphis, Tenn. Filed July 14, 1952.



No claim is made to the word "Hat" apart from the mark as shown. The representation of a person is fanciful.
For Men's Hats.
Claims use since May 15, 1952.

Ser. No. 632,657. Summit Mills Corporation, New York, N. Y. Filed July 21, 1952.

Master Case

For Sport Shirts for Young Men and Boys.
Claims use since June 11, 1952.

Ser. No. 633,554. Pekay Leather Products, Inc., doing business as Saddle-Craft Shoe Company, Knoxville, Tenn. Filed Aug. 6, 1952.

"Saddlers"

For Hand-Made Sandals for Men, Women, Misses, and Children.
Claims use since February 1952.

Ser. No. 635,472. Goldstein Millinery Company, Chicago, Ill. Filed Sept. 19, 1952.

Vani-Teen

The word "Teen" is disclaimed apart from the word combination "Vani-Teen."
For Women's Hats.
Claims use since Aug. 8, 1952.

Ser. No. 635,496. J. P. Stevens & Co., Inc., New York, N. Y. Filed Sept. 19, 1952.

PIN-UPS

For Diapers.
Claims use since Apr. 16, 1952.

Ser. No. 636,268. Bates Shoe Company, Webster, Mass. Filed Oct. 7, 1952. (Sec. 2f.)

Webster Park

Applicant claims ownership of Registration No. 53,300.
For Men's Shoes.
Claims use since on or about December 1942.

Ser. No. 638,127. Adam Hat Stores, Inc., New York, N. Y. Filed Nov. 15, 1952.

Mystronic

For Men's and Boys' Hats and Caps, Dress Shirts, Outer and Under Shirts, Underwear, Sweaters, Sport Shirts, Basque Shirts, Jackets and Trousers, Neckties, Bow Ties, and Combinations Thereof.
Claims use since Oct. 1, 1952.

Ser. No. 639,648. John Kaye & Son Huddersfield Limited, Huddersfield, England. Filed Dec. 17, 1952.

KAYSO

Applicant claims ownership of Registration No. 344,315.
For Men's, Women's, Boys', and Girls' Aprons, Overalls, Smocks, Dressing Gowns, Outer and Under Shorts, Shirts, Blouses, Scarves, Neckties, and Play Suits; Women's and Girls' Dresses, Housecoats, Skirts, Pinafores, and Slacks; Men's and Boys' Trousers; and Children's Rompers.
Claims use since Aug. 28, 1907.

Ser. No. 639,670. Standard Rayon Underwear Co., New York, N. Y. Filed Dec. 17, 1952.



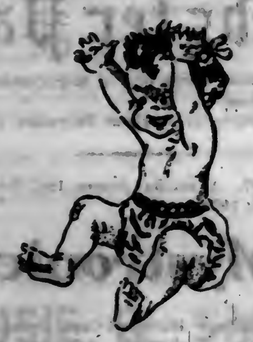
The drawing is lined for blue and red. The words "By Standard" and the background design are disclaimed apart from the mark shown on the drawing.
For Clothing—Namely, Underwear for Women.
Claims use since Sept. 24, 1952.

Ser. No. 639,853. Style Art Clothes, Inc., New York, N. Y. Filed Dec. 20, 1952.

Style-Art Clothes

The words "Style" and "Clothes" are disclaimed apart from the mark as shown in the drawing.
For Men's Suits, Sport Coats, Overcoats, Topcoats, Jackets, and Slacks.
Claims use since June 7, 1929.

Ser. No. 640,168. Rand Rubber Company, Inc., trading as Rand Rubber Co., Brooklyn, N. Y. Filed Dec. 30, 1952.



The picture of the baby shown on the drawing is fanciful.
For Water Repellent Baby Pants.
Claims use since November 1947.

Ser. No. 640,573. Malouf Company, Dallas, Tex. Filed Jan. 9, 1953. (Sec. 2f.)

Youthful Mother

For Women's Maternity Dresses.
Claims use since Jan. 10, 1948.

Ser. No. 640,870. Sheertex Hosiery, Inc., Woodbury, N. J. Filed Jan. 16, 1953.

Sheertex

Applicant claims ownership of Registration No. 246,935.
For Women's Hosiery.
Claims use since Mar. 13, 1952, on the mark as shown, and since Apr. 9, 1928, in a different form.

Ser. No. 641,325. Phoenix Hosiery Company, Milwaukee, Wis. Filed Jan. 26, 1953.

CREPELLE

For Women's Hosiery Knit of Crinkled or Crimp Set Nylon.
Claims use since Jan. 12, 1953.

Ser. No. 641,331. Raymond C. Schneider, Manhattan, Kans. Filed Jan. 26, 1953.

MEG-O-VISOR

The term "Visor" is disclaimed apart from the mark shown in the drawing.
For Sun Hat.
Claims use since Sept. 24, 1952.

Ser. No. 641,377. Frederick H. Heider, doing business as Fred Heider, New York, N. Y. Filed Jan. 27, 1953.

ZAPATAS

For Leisure Wear for Men, Women, and Children—Namely, Jackets, Trousers, Slacks, Shirts, Blouses, Bodices, Shoes, Neckerchiefs, Scarves, Gloves, Garment Belts, Hats, Caps, and Hosiery.
Claims use since Mar. 11, 1952.

Ser. No. 641,476. John B. Stetson Company, Philadelphia, Pa. Filed Jan. 28, 1953. (Sec. 2f.)

STETSON

Applicant claims ownership of Registrations Nos. 51,990, 181,329, and others.
For Hats, Caps, and Gloves Made of Leather, Fabric, and Combinations Thereof for Men, Women, and Children.
Claims use since Jan. 1, 1866.

Ser. No. 641,768. Lucy W. Dunlap, Belton, Mo. Filed Feb. 5, 1953.

"His First Shirt"

The word "Shirt" is disclaimed apart from the mark as shown.
For Boys' Outer Shirts.
Claims use since Nov. 14, 1952.

Ser. No. 642,771. Reliance Manufacturing Company, Chicago, Ill. Filed Feb. 25, 1953.

Step'n-Go

For Women's, Misses', and Girls' Dresses.
Claims use since Feb. 13, 1953.

Ser. No. 642,797. Basila Mfg. Co., Inc., Mobile, Ala. Filed Feb. 26, 1953.



For Women's and Misses' Dresses and Housecoats.
Claims use since April 1948.

Ser. No. 643,015. Wright-Johnston Inc., Columbia, S. C. Filed Mar. 2, 1953.

KEITHSHIRE

For Men's Suits, Trousers, Topcoats, Tuxedos, and Sport Coats.
Claims use since Feb. 2, 1953.

Ser. No. 643,387. Louis Walter & Co., Inc., Kansas City, Mo. Filed Mar. 9, 1953.

Pompana

For Women's Coats and Suits.
Claims use since Jan. 30, 1953.

Ser. No. 643,418. The Gottfried Company, Cleveland, Ohio. Filed Mar. 10, 1953.

Maurene Frocks

The word "Frocks" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 285,105.
For Dresses for Women and Misses.
Claims use since at least as early as Sept. 15, 1930.

Ser. No. 643,426. Jack Kahn, doing business as K & E Hosiery Co., Brooklyn, N. Y. Filed Mar. 10, 1953.

NYLEG

For Women's Hosiery.
Claims use since Jan. 16, 1953.

Ser. No. 643,587. Holland-Hessel Co., Inc., New York, N. Y. Filed Mar. 13, 1953.

DOUBLE EXPOSURE

For Women's Undergarments—Namely, Slips.
Claims use since Jan. 14, 1953.

Ser. No. 643,710. Pollak Industrial Corp., Stratford, Conn., and New York, N. Y. Filed Mar. 16, 1953.

ARGENCE

For Hat Bodies.
Claims use since Nov. 11, 1952.

Ser. No. 643,903. Hat Corporation of America, Norwalk, Conn. Filed Mar. 19, 1953. (Sec. 2f.)

Cruise & Travel

Applicant claims ownership of Registrations Nos. 223,740 and 439,627.
For Hats for Women.
Claims use since December 1933.

Ser. No. 643,915. Max's, Inc., Cincinnati, Ohio. Filed Mar. 19, 1953.

MR. 'B'

For Men's Outer Shirts.
Claims use since on or about Mar. 3, 1953.

Ser. No. 643,947. Federated Department Stores, Inc., doing business under the name Bloomingdale Bros., Cincinnati, Ohio, and New York, N. Y. Filed Mar. 20, 1953.

bob burton

The name "Bob Burton" is fanciful. Applicant claims ownership of Registration No. 301,465.
For Men's Wearing Apparel—Namely, Overcoats, Hats, Negligee Shirts, Neckties for Men and Boys; Shoes Made of Leather, as Well as Leather With Rubber Soles and Heels for Men and Boys; Underwear, Hosiery, Sweaters, Pajamas, Mufflers, Scarfs, and Suits.
Claims use since Oct. 23, 1931.

Ser. No. 644,500. Perfection Frocks, Inc., New York, N. Y. Filed Mar. 31, 1953. (Sec. 2f.)

SWEET 'N NEAT

Applicant claims ownership of Registration No. 390,747.
For Ladies' Dresses and House Coats.
Claims use since May 1, 1941.

Ser. No. 644,567. Perfection Frocks, Inc., New York, N. Y. Filed Apr. 1, 1953. (Sec. 2f.)

SWEET & SIMPLE

Applicant claims ownership of Registration No. 390,739.
For Ladies' House Dresses and Aprons.
Claims use since Aug. 1, 1940.

Ser. No. 644,755. International Latex Corporation, Dover, Del. Filed Apr. 6, 1953.

TREE OF LIFE

For Girdles.
Claims use since Apr. 3, 1953.

Ser. No. 644,762. Kabo, Inc., Chicago, Ill. Filed Apr. 6, 1953.

hug and bliss

For Foundation Garments.
Claims use since Feb. 27, 1953.

Ser. No. 648,460. Sommer & Kaufmann, San Francisco, Calif. Filed May 27, 1953.

S&K Saddle King

Applicant claims ownership of Registrations Nos. 263,891 and 528,067.
For Boots and Shoes Made of Leather or Canvas and Combinations Thereof for Women and Children.
Claims use since Jan. 27, 1952.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 591,064. Janet Forbes Allardyce, known in religion as Sister Mary Elizabeth, Chicago, Ill. Filed Jan. 19, 1950.

Bonnie Prince Charlie

The mark consists of the name often applied to Prince Charles Edward Stuart, long deceased.
For Tea Cozys and Small Pieces of Fancy Work for Decoratively Covering Sachet Containers and Other Small Articles.
Claims use since on or about Nov. 17, 1949.

Ser. No. 615,804. Cleo Beauty Products Company, Boston, Mass., assignee of James A. Swenson, William E. Burns, and Richard H. Stead. Filed June 27, 1951.

Cleo

For Non-Electrical Hair Curlers.
Claims use since June 1, 1950.

Ser. No. 629,326. Sears, Roebuck and Co., Chicago, Ill. Filed May 7, 1952.

baton



For Brush and Comb Sets.
Claims use since on or about June 25, 1951.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 633,913. Arthur Beir & Co., Inc., New York, N. Y. Filed Aug. 14, 1952.

SOALAPLEET

Applicant claims ownership of Registration No. 550,249.
For Cotton Piece Goods.
Claims use since June 11, 1952.

Ser. No. 636,526. Guilford Woolen Mills Co., Guilford, Maine. Filed Oct. 11, 1952.

Minnette

For Piece Goods Woven of Wool and Synthetic Fibers.
Claims use since June 10, 1952.

Ser. No. 636,551. Barbet Mills, Inc., Gastonia, N. C. Filed Oct. 13, 1952. (Sec. 2f.)

Rossknit

Applicant claims ownership of Registrations Nos. 508,313 and 521,351.
For Fabrics in the Piece Consisting of Cotton, Rayon, Wool, or Combinations Thereof.
Claims use since Aug. 11, 1947.

Ser. No. 636,617. Waite Carpet Co., Oshkosh, Wis. Filed Oct. 14, 1952.

CUSTOM-WAI

Applicant claims no exclusive right to the word "Custom" alone. Applicant claims ownership of Registrations Nos. 204,524, 221,062, and others.
For Textile Rugs and Carpets.
Claims use since June 15, 1952.

Ser. No. 637,041. Deering, Milliken & Co., Inc., New York, N. Y. Filed Oct. 23, 1952.

"55-45 or WILT"

No claim is made to the word "Wilt" apart from the mark as shown on the drawing.
For Textile Fabrics Made of Wool, Cotton, and Synthetic Fibers, and Combinations Thereof.
Claims use since Oct. 9, 1952.

Ser. No. 637,342. Wennonah Cotton Mills Company, Lexington, N. C. Filed Oct. 29, 1952.

WENTWIL

For Textile Fabrics of Cotton in the Piece.
Claims use since Aug. 8, 1952.

Ser. No. 637,817. Comptoir de l'Industrie Cotonniere Etablissements Boussac Société à Responsabilite Limitee, Paris, France. Filed Nov. 8, 1952.

T.G.B.

Applicant claims ownership of French Registration No. 419,469, dated Apr. 16, 1952.
For Textile Fabrics Made of Wool, Silk, Cotton, Rayon, Linen, and Nylon Fibers.

Ser. No. 638,363. Ivler & Pollack, New York, N. Y. Filed Nov. 20, 1952.

SHANCORD

For Knitted, Netted, and Textile Fabrics, Said Fabrics Being Made of Cotton, Wool, Linen, Silk, and Synthetic Fibre.
Claims use since in the fall of 1949; and since in February 1952 in the form shown.

Ser. No. 638,380. Wamsutta Mills, New Bedford, Mass. Filed Nov. 20, 1952.

SUTTALON

Applicant claims ownership of Registration No. 566,638.
For Piece Goods of Worsted, Synthetic Fibers, and Combinations Thereof.
Claims use since Oct. 30, 1952.

Ser. No. 638,382. Wamsutta Mills, New Bedford, Mass. Filed Nov. 20, 1952.

Suttabreeze

Applicant claims ownership of Registration No. 566,638.
For Cotton Piece Goods.
Claims use since Oct. 30, 1952.

Ser. No. 639,200. Carwan Woolen Corporation, New York, N. Y. Filed Dec. 9, 1952.

Confetti Fabrics



The drawing is lined for red, yellow, and brown. The words "Confetti Fabrics" are disclaimed apart from the mark as shown on the drawing.
For Textile Fabrics Wholly of Wool and in Substantial Part of Wool Combined With Cotton and Synthetic Fibres.
Claims use since May 15, 1952.

Ser. No. 640,180. Waite Carpet Company, Oshkosh, Wis. Filed Dec. 30, 1952.

Braid-Wai

Applicant claims no exclusive right to the word "Braid" alone. Applicant claims ownership of Registrations Nos. 204,524, 211,062, and others.
For Textile Rugs and Carpets.
Claims use since Sept. 15, 1952.

Ser. No. 640,181. Waite Carpet Company, Oshkosh, Wis. Filed Dec. 30, 1952.

Deb-Wai

Applicant claims ownership of Registrations Nos. 204,524, 211,062, and others.
For Textile Rugs and Carpets.
Claims use since Sept. 15, 1952.

Ser. No. 640,398. The Harodite Finishing Company, Inc., North Dighton, Mass. Filed Jan. 6, 1953.

HARO flex

For Textile Piece Goods Made of Cotton, Nylon, Rayon, Silk, and Wool.
Claims use since Sept. 15, 1952.

Ser. No. 642,102. Wamsutta Mills, New Bedford, Mass. Filed Feb. 11, 1953.

SUTTAWALE

Applicant claims ownership of Registrations Nos. 532,921 and 566,638.
For Cotton Piece Goods.
Claims use since Dec. 31, 1952.

Ser. No. 642,155. Naumkeag Steam Cotton Company, Salem, Mass. Filed Feb. 12, 1953. (Sec. 2f.)

LENOX

Applicant claims ownership of Registration No. 143,862.
For Sheets and Pillow Cases.
Claims use since 1910.

Ser. No. 643,517. Waite Carpet Company, Oshkosh, Wis. Filed Mar. 11, 1953.

Broad-Wai

Applicant claims ownership of Registrations Nos. 204,524, 211,062, and others.
For Textile Rugs and Carpets.
Claims use since July 31, 1943.

Ser. No. 643,518. Waite Carpet Company, Oshkosh, Wis. Filed Mar. 11, 1953.

Gay-Wai

Applicant claims ownership of Registrations Nos. 204,524, 211,062, aand others.
For Textile Rugs and Carpets.
Claims use since Sept. 15, 1949.

Ser. No. 643,519. Waite Carpet Company, Oshkosh, Wis. Filed Mar. 11, 1953.

Tweed-Wai

Applicant claims no exclusive right to the word "Tweed" alone. Applicant claims ownership of Registrations Nos. 204,524, 211,062, and others.
For Textile Rugs and Carpets.
Claims use since Sept. 15, 1949.

Ser. No. 643,520. Waite Carpet Company, Oshkosh, Wis. Filed Mar. 11, 1953.

Wai-Tile

Applicant claims ownership of Registrations Nos. 204,524, 211,062, and others.
For Textile Rugs and Carpets.
Claims use since Sept. 15, 1949.

Ser. No. 644,252. Patchogue-Plymouth Mills Corporation, New York, N. Y. Filed Mar. 26, 1953.

RUSHTEX

For Woven Fibre Rugs, Woven Fibre Draperies, and Fabrics for Automobile Seat Covers, Woven From Paper, Sisal, Rayon, Cotton, Plastic, and Synthetic Fibres or Combinations Thereof.
Claims use since 1929.

Ser. No. 644,593. Belrug Mills of South Carolina, Greenville, S. C. Filed Apr. 2, 1953.

Wunda-Crest

Applicant claims ownership of Registrations Nos. 437,645 and 574,903.
For Loom Woven Cut Pile Cotton Rugs.
Claims use since Jan. 5, 1953.

Ser. No. 645,797. D. B. Fuller & Co., Inc., New York, N. Y. Filed Apr. 23, 1953.

Staccato

For Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibres, and Mixtures Thereof.
Claims use since Jan. 14, 1952.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 617,069. Seminole Flavor Company, Chattanooga, Tenn. Filed July 24, 1951. (Sec. 2f.)

DOUBLE LEMON

Applicant claims ownership of Registrations Nos. 286,482, 255,971, and others.
For Lemon Flavored Carbonated Non-Alcoholic Non-Cereal Maltless Beverages Sold as Soft Drinks, and Flavoring Therefor.
Claims use since Jan. 1, 1929.

Ser. No. 642,249. Wilrick, Inc., New York, N. Y. Filed Feb. 13, 1953.

WILRICK'S "4 TO 1"

For Fruit Flavored Maltless Soft Drinks and Concentrates for Making Same.
Claims use since Dec. 20, 1952.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 576,079. C. B. Stout, doing business as Baltic Mills, Memphis, Tenn. Filed Mar. 25, 1949. CONCURRENT USE with Registrations 124,940, 181,495, 366,661, 508,067, for the area comprising Arkansas, Tennessee, Georgia, Alabama, Florida, South Carolina, North Carolina, Virginia, Louisiana, Illinois, Mississippi, and Missouri.

SNOW DRIFT

For Wheat Flour.
Claims use since 1873.

Ser. No. 593,219. Cedarville Packing Company, Hoboken, N. J. Filed Mar. 1, 1950.

ROSETTA

For Canned Tomatoes, Tomato Paste, Olive Oil, and Cheese.
Claims use since 1936.

Ser. No. 637,839. Rand McNally & Company, Chicago, Ill. Filed Nov. 8, 1952.

KON-TIKI

For Candy.
Claims use since Oct. 27, 1952.

Ser. No. 639,342. S. A. Schonbrunn & Co., Inc., New York, N. Y. Filed Dec. 11, 1952. (Sec. 2f.)

Savarin

Applicant claims ownership of Registration No. 74,002.
For Coffee, Tea, and Rice.
Claims use since Sept. 1, 1894.

Ser. No. 640,829. Zion Industries, Inc., doing business as Zion Countryside Bakers, Zion, Ill. Filed Jan. 15, 1953. (Sec. 2f as to "Zion.")

Zion Country Fresh

No claim is made to the word "Fresh" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 418,658, 420,961, and others.
For Baker's Confections—Namely, Cookies and Fruit Bars.
Claims use since May 23, 1950; and since 1902 as to "Zion."

Ser. No. 644,792. Saticoy Lemon Association, Saticoy, Calif. Filed Apr. 6, 1953. (Sec. 2f.)

Saticoy

Applicant claims ownership of Registration No. 318,744.
For Fresh Citrus Fruits.
Claims use since Aug. 3, 1933.

Ser. No. 645,228. California Goat Dairymen's Assn., Inc., Modesto, Calif. Filed Apr. 14, 1953.

Miracle

For Evaporated Goat Milk.
Claims use since May 5, 1950.

CLASS 47

WINES

Ser. No. 620,638. Wilen Brothers, Inc., Philadelphia, Pa. Filed Oct. 29, 1951.

Applicant claims ownership of Registration No. 318,030.
For Wines—Namely, Barberone, Blackberry, Burgundy, Cherry, Chianti, Concord Grape, Muscatel, Port, White Port, Sauterne, Sherry, Pale Dry Sherry, White Tokay, and Zinfandel.
Claims use since Dec. 1, 1934.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 519,719. Bavarian Brewing Company, Inc., Covington, Ky. Original filed, act of 1905, Mar. 28, 1947; amended to application under act of 1946, Principal Register, May 1, 1952. (Sec. 2f.)

Bavarian's

For Beer of Legal Alcoholic Content.
Claims use since Mar. 1, 1946.

Ser. No. 621,207. Jacob Hornung Brewing Co., Philadelphia, Pa. Filed Nov. 14, 1951. (Sec. 2f as to "Hornung.")

HORNUNG BEER

The generic word "Beer" appearing in the drawing is disclaimed. Applicant claims ownership of Registration No. 535,848.

For Beer.

Claims use since July 13, 1950, as to the mark shown; and since 1879, as to the surname "Hornung."

Ser. No. 637,846. Gabriel Sedlmayr, Spaten-Franziskaner-Bräu A. G. München, Munich, Germany. Filed July 26, 1951.

DOPPELSPATEN

Applicant claims ownership of Registrations Nos. 79,794, 308,585, and 342,671.

For Beer.

Claims use since 1907; and since 1907 in commerce between Germany and the United States.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 633,337. J. & G. Stewart Limited, Edinburgh, Scotland. Filed July 31, 1952. (Sec. 2f.)



No trade-mark right is claimed in the word "Extra" apart from the mark as shown in the drawing. Applicant claims ownership of Registration No. 314,550.

For Scotch Whisky.

Claims use since 1930; and since Jan. 17, 1934, in commerce between Great Britain and the United States.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 372,887. Aluminum Seal Company, Inc., Richmond, Ind., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania. Filed Jan. 27, 1949.

TOPSIDE RO

For Caps and Closure Seals for Bottles, Cans, and Jars, and Containing Materials Other Than Dairy Products.

Claims use since Apr. 7, 1948.

Ser. No. 612,365. American Name Plate & Manufacturing Company, Chicago, Ill. Filed Apr. 7, 1951.

ANCO

For Etched and Lithographed Metal Name Plates.

Claims use since June 18, 1937.

Ser. No. 622,962. John K. Shawvan, Washington, D. C. Filed Dec. 28, 1951.

MARGRITE

For Cemetery Monuments Made of Marble, Granite, or the Like.

Claims use since May 19, 1948.

Ser. No. 632,281. American Brake Shoe Company, New York, N. Y. Filed July 9, 1952.

RACOR

Applicant claims ownership of Registrations Nos. 169,851, 173,737, and others.

For Rubber-Fibre Tie Pads Designed To Be Used in Conjunction With Railroad Tie Plates.

Claims use since May 16, 1952.

Ser. No. 637,637. Armstrong Cork Company, Lancaster, Pa. Filed Nov. 5, 1952.

ACCOBLEACH

Applicant claims ownership of Registration No. 169,154.

For Container Closures.

Claims use since Oct. 17, 1952.

Ser. No. 641,077. National Tinsel Manufacturing Company, Manitowoc, Wis. Filed Jan. 21, 1953.

National

For Christmas Tree Decorations—Namely, Icicles; Artificial Snow; Garlands; Angel Hair; Packaged Cotton Batting Used To Simulate Snow; Ornament Hangers in the Nature of Metal Hooks for Attaching Christmas Tree Ornaments to Trees; Artificial Candy Canes; Ornamental Figures of Biblical, Legendary, or Fictional Characters of Foil or Other Non-Precious Materials; Tree Top Star Ornaments; Tree Light Reflectors; Cellufoss—Namely, Cellophane Strips Used as Ornaments; Wreaths; Cornucopias; and Foil Christmas Trees.

Claims use since Mar. 1, 1919.

Ser. No. 642,196. Art Anson, Inc., Allentown, Pa. Filed Feb. 13, 1953.

LUMINOBS

For Door Knob Covers Made of Soft Plastic Material Which Glows in the Dark.

Claims use since Jan. 28, 1953.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 628,139. Robert E. Benshoof, doing business as Accident Control Associates, Burbank, Calif. Original filed, act of 1946, Supplemental Register, Apr. 16, 1952; amended to application, Principal Register, Nov. 10, 1952.

ACCA

For Consulting Engineering Services Rendered in the Field of Accident Prevention—Namely, Designing and Installing Procedural Controls for Hazardous Machinery or Chemical Processes, Evaluating Industrial Establishments as to Their Accident Prevention Needs and Investigating Accidents From an Engineering Standpoint.

Claims use since July 1, 1951.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 613,144. Nathan Root, doing business as Root & Company, Grand Rapids, Mich. Filed Apr. 25, 1951. (Sec. 2f.)

Lustrosweep

Applicant claims ownership of Registration No. 431,419.

For Dry Cleaning of Textile Articles.

Claims use since Mar. 5, 1951.

Ser. No. 624,402. The Euclid Road Machinery Co., Euclid, Ohio. Filed Feb. 1, 1952. (Sec. 2f.)

EUCLID

Applicant claims ownership of Registrations Nos. 282,468, 283,610, and others.

For Service, Maintenance, and Repair of Internal Combustion Engines, Transmissions and Drives for Engine Driven Vehicles; Electrical and Air and Hydraulic Systems for Vehicles; Frames and Bodies for Tractors, Trucks, Dumping Tractor Trucks, Dump Wagons, Digging and Carrying Scrapers, Conveyor Loaders, Compaction Rollers, Power Driven Graders, Scarifiers; and Parts, Tools, Attachments, Accessories, and Equipment Associated With All of Said Products; and Installation of Repair Parts for Said Products.

Claims use since 1927.

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 623,626. World Automobile Association, Inc., Charleston, S. C. Filed Jan. 15, 1952.

WORLD AUTOMOBILE ASSOCIATION AA INC.

For Furnishing or Assisting Motorists and Owners of Motor Vehicles in Obtaining Emergency Automobile Repair and Towing Services; Planning Automobile Trips and Furnishing Information as to Routes of Travel Including Conditions of Highways, and Maps for Use in Connection Therewith.

Claims use since Nov. 8, 1951.

CLASS 106

MATERIAL TREATMENT

Ser. No. 600,950. R. R. Donnelley & Sons Company, Chicago, Ill. Filed July 20, 1950. (Sec. 2f as to "R. R. Donnelley & Sons Company.")

R. R. DONNELLEY & SONS COMPANY · THE LAKESIDE PRESS · CHICAGO

"R. R. Donnelley" represents the name of Richard R. Donnelley, the founder of applicant corporation. The drawing is lined for shading only. Registration rights in the words "The," "Press," and "Chicago" are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 519,344.

For Binding of Books, Pamphlets, Catalogues, Magazines, Directories, Advertising Brochures, Legal Briefs, and Documents, and All Other Similar Forms of Publications.

Claims use since 1926.

Ser. No. 633,696. Chicago Molded Products Corporation, Chicago, Ill. Filed Aug. 8, 1952. (Sec. 2f.)

CHICAGO MOLDED PLASTICS

The words "Molded Plastics" are disclaimed apart from the mark.

For Custom Molding of Articles From Moldable Plastic Material.

Claims use since March 1947.

Ser. No. 642,339. R. W. Bates Piece Dye Works, Inc., Garnerville, N. Y. Filed Feb. 17, 1953.



The word "Fast" is disclaimed apart from the mark as shown.

For Treating Rayon and Acetate Suiting Fabrics of Manufacturers To Render Them Crease Resistant.

Claims use since Sept. 2, 1952.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1946, PRINCIPAL REGISTER

579,237. Spring Pin Fasteners of the Dowel Pin Type. Elastic Stop Nut Corporation of America, Union, N. J., assignee of Mid-Continent Metal Products Company. Filed Aug. 16, 1947, Serial No. 531,615. Published June 9, 1953. Class 13.

579,238. Automatic Gas Water Heaters. Wilmer E. McCorquodale, Orange, Tex. Filed Oct. 14, 1947, Serial No. 537,805. Published June 9, 1953. Class 34.

579,239. Uncooked or Unbaked Dough for Making Biscuits. Ballard & Ballard Co., Louisville, Ky., assignor to Pillsbury Mills, Inc., a corporation of Delaware. Filed Nov. 17, 1947, Serial No. 541,387. Published June 2, 1953. Class 46.

579,240. Fresh Citrus Fruit. Escondido Lemon Association, Escondido, Calif. Filed Dec. 22, 1947, Serial No. 545,109. Published June 9, 1953. Class 46.

579,241. Fresh Citrus Fruits. Escondido Orange Association, Escondido, Calif., assignee of Escondido Lemon Association. Filed Dec. 22, 1947, Serial No. 545,110. Published June 2, 1953. Class 46.

579,242. Fresh Citrus Fruits. Escondido Orange Association, Escondido, Calif., assignee of Escondido Lemon Association. Filed Dec. 22, 1947, Serial No. 545,111. Published June 2, 1953. Class 46.

579,243. Industrial Pressure Clamps and Parts Thereof. Band-It Company, Denver, Colo. Filed Mar. 19, 1948, Serial No. 552,409. Published June 9, 1953. Class 13.

579,244. Toy Kits Containing Strands of Stiff Wire From Which Various Figures May Be Formed. The Quell Products Company, Arlington, Va. Filed May 28, 1948, Serial No. 558,066. Published June 9, 1953. Class 22.

579,245. Candy—Namely, Butter Scotch. Kerr's Butter Scotch, Inc., Jamesburg, N. J. Filed June 14, 1948, Serial No. 559,159. Published June 9, 1953. Class 46.

579,246. Pipe Caulking Compound in Stick Form. Lake Chemical Co., Chicago, Ill. Filed June 26, 1948, Serial No. 560,276. Published May 19, 1953. Class 12.

579,247. Wheat Flour. Pillsbury Mills, Inc., Minneapolis, Minn. Filed Sept. 18, 1948, Serial No. 565,450. Published June 2, 1953. Class 46.

579,248. Machine for Cleaning, Rust-Proofing, Priming, and Painting Sheet Metal Articles Such as Vehicle Bodies and Chassis by Means of Spraying, Dipping, and/or Flow Coating. Carrier Engineering Company Limited, London, England. Filed Oct. 18, 1950, Serial No. 567,499. Published May 12, 1953. Class 23.

579,249. Coffee Concentrates. Rudd-Melikian, Inc., Philadelphia, Pa. Filed Apr. 21, 1949, Serial No. 577,497. Published June 2, 1953. Class 46.

579,250. Compound in the Nature of a Disinfectant, Bleach, Cleanser, and Deodorant. Luigi Rosati, doing business as Bleach-Ox Chemical Co., Bethlehem, Pa. Filed June 21, 1949, Serial No. 580,857. CONCURRENT USE. Published June 2, 1953. Class 52.

579,251. Finned Tube Convectors. C. A. Dunham Company, Chicago, Ill. Filed Oct. 22, 1949, Serial No. 586,688. Published May 5, 1953. Class 34.

579,252. Light-Colored Coated Rigid Fiber Insulation Board. Wood Conversion Company, St. Paul, Minn. Filed Nov. 25, 1949, Serial No. 588,347. Published May 12, 1953. Class 12.

579,253. Electric Automatic Door Controlling Apparatus Incorporating a Mat Actuating Element. The Steel City Manufacturing Company, Youngstown, Ohio, assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut. Filed Dec. 5, 1949, Serial No. 588,816. Published Nov. 7, 1950. Class 21.

579,254. Oil-Burning Heaters for Tobacco Curing Systems. Smith's Heating, Inc., Kinston, N. C. Filed Jan. 7, 1950, Serial No. 590,525. Published May 12, 1953. Class 34.

579,255. Cheese. Roethlisberger & Sohn A. G., trading also as Roethlisberger & Fils, S. A., Langnau, Berne Canton, Switzerland. Filed Jan. 28, 1950, Serial No. 591,638. Published May 26, 1953. Class 46.

579,256. Coffee and Blended Flour Made Up of Soft Winter Wheat Flour, Hard Winter Wheat Flour, and Spring Wheat Flour. Big Bear Stores Company, Columbus, Ohio. Filed Apr. 3, 1950, Serial No. 595,118. Published June 2, 1953. Class 46.

579,257. Automobile Polishes, Metal Polishes, Polishing Waxes, and Furniture Creams for Polishing Purposes. Stanley Home Products, Inc., Westfield, Mass. Filed May 19, 1950, Serial No. 597,789. Published June 9, 1953. Class 4.

579,258. Shaving Cream. Hammond Research Corporation, doing business as Hammond Laboratory, Gloucester, Mass. Filed June 8, 1950, Serial No. 598,792. Published May 19, 1953. Class 51.

579,259. Fine Chemicals—Namely, Chemical Elements, Inorganic Chemicals Including Acids, Etc. The Chemical Rubber Co., Cleveland, Ohio. Filed Sept. 1, 1950, Serial No. 603,047. Published June 9, 1953. Class 6.

579,260. Mineral Tablets Containing Extract of Cod Liver Oil. McCoy's Products, Inc., New York, N. Y. Filed Oct. 20, 1950, Serial No. 605,220. Published June 2, 1953. Class 18.

579,261. Asphalt Tile. Gertz and Cook, Inc., Los Angeles, Calif. Filed Nov. 2, 1950, Serial No. 605,790. Published Apr. 28, 1953. Class 12.

579,262. Styrenated Dehydrated Castor Oil. Woburn Chemical Corp. (N. J.), Harrison, N. J. Filed Nov. 13, 1950, Serial No. 606,353. Published June 9, 1953. Class 6.

579,263. Cosmetics in the Nature of Colognes, Powders, Solidified Creams, and Similar Products—Namely, Deodorants, Hair Grooming Preparations, and Rouges. Max Factor & Co., Hollywood, Calif. Filed Nov. 14, 1950, Serial No. 606,373. Published May 12, 1953. Class 51.

579,264. Wheat Flour. Duluth Universal Milling Company, Duluth, Minn.
Filed Dec. 14, 1950, Serial No. 607,662. Published June 2, 1953. Class 46.

579,265. Pennants, Banners, and Prize Ribbons, Etc. Grand Aerie Fraternal Order of Eagles, Kansas City, Mo.
Filed Dec. 22, 1950, Serial No. 607,992. Published May 19, 1953. Class 50.

579,266. Pennants, Banners, and Prize Ribbons, Etc. Grand Aerie Fraternal Order of Eagles, Kansas City, Mo.
Filed Dec. 22, 1950, Serial No. 607,995. Published May 19, 1953. Class 50.

579,267. Pennants, Banners, and Prize Ribbons, Etc. Grand Aerie Fraternal Order of Eagles, Kansas City, Mo.
Filed Dec. 22, 1950, Serial No. 607,999. Published May 19, 1953. Class 50.

579,268. Hand Cream Used To Remove Stains Resulting From the Handling of Duplicating Materials. Polychrome Corporation, Yonkers, N. Y.
Filed Dec. 27, 1950, Serial No. 608,122. Published May 19, 1953. Class 51.

579,269. Topcoats, Overcoats, Raincoats, Rain Hats, Rubbers and Galoshes, Play Suits, Etc. Arthur M. Schargel, Westfield, N. J.
Filed Jan. 3, 1951, Serial No. 608,327. Published May 26, 1953. Class 39.

579,270. Material Consisting of Natural Wood Veneer Laminated With Plastic and Paper Sheet Materials. Parkwood Laminates, Inc., Wakefield, Mass., assignee of Parkwood Corporation.
Filed Jan. 26, 1951, Serial No. 609,310. Published May 19, 1953. Class 12.

579,271. Men's Underwear. Walter W. Moyer Company, Ephrata, Pa.
Filed Feb. 27, 1951, Serial No. 610,575. Published May 26, 1953. Class 39.

579,272. Women's Hosiery, and Underwear. Walter W. Moyer Company, Ephrata, Pa.
Filed Feb. 27, 1951, Serial No. 610,576. Published May 26, 1953. Class 39.

579,273. Canned Fruit, Rice, Sauerkraut, Canned Apple Sauce, Canned Beans With Pork, Apple Jelly, Canned Hominy, Canned Berries, Canned Orange Juice, Canned Fish, Canned Vegetables. Campbell Holton & Co., Bloomington, Ill.
Filed Apr. 10, 1951, Serial No. 612,453. Published Sept. 23, 1952. Class 46.

579,274. Crude Corn Oil Used for Food Purposes, Sold in Bulk to Purchasers Other Than Consumers. Schenley Distillers, Inc., New York, N. Y.
Filed Apr. 11, 1951, Serial No. 612,510. Published Dec. 11, 1951. Class 46.

579,275. Water Disinfectant. Ralston Purina Company, St. Louis, Mo.
Filed Apr. 18, 1951, Serial No. 612,825. Published June 9, 1953. Class 6.

579,276. Abrasive Wheel Dressers and Parts Thereof. Precision Diamond Products, Ltd., London and Fulham, London, England.
Filed Apr. 24, 1951, Serial No. 613,084. Published May 12, 1953. Class 23.

579,277. Movable Partitions of Metal, Wood or Composite Material, Etc. The E. F. Hauserman Company, Cleveland, Ohio.
Filed May 1, 1951, Serial No. 613,371. Published Apr. 28, 1953. Class 12.

579,278. Enriched Organic Plant Food. Davies Nitrate Co., Inc., New York, N. Y.
Filed May 24, 1951, Serial No. 614,291. Published June 9, 1953. Class 10.

579,279. Hair and Scalp Lotion. The Honig Corporation, Los Angeles, Calif.
Filed May 29, 1951, Serial No. 614,504. Published May 12, 1953. Class 51.

579,280. Gas Cutting and Welding Apparatus—Namely, Welding and Cutting Torches, Etc. Alexander Milburn, Inc., Baltimore, Md.
Filed June 7, 1951, Serial No. 614,888. Published May 12, 1953. Class 34.

579,281. Combined System of Machines for Pasteurizing and Cooling Milk, Fruit Juices, and Wines. A. P. V. Co., Ltd., London, England.
Filed May 17, 1951, Serial No. 614,915. Published May 5, 1953. Class 34.

579,282. Laminated Construction Material of Wood, Plywood, and/or Synthetic Wood—Namely, Hardboard. United States Plywood Corporation, New York, N. Y.
Filed June 11, 1951, Serial No. 615,033. Published May 19, 1953. Class 12.

579,283. Golf Balls. Thomas B. Semans, Jr., Philadelphia, Pa.
Filed July 3, 1951, Serial No. 616,054. Published June 9, 1953. Class 22.

579,284. Power Drawn Cultivator Shovels. Cultiguard Shovel Company, Waldo, Ohio.
Filed July 9, 1951, Serial No. 616,225. Published Feb. 10, 1953. Class 23.

579,285. Drinking Straws. Tested Papers of America, Inc., Chicago, Ill.
Filed July 14, 1951, Serial No. 616,525. Published May 12, 1953. Class 50.

579,286. Solid Hair Brilliantine, Pomade, and Liquid Brilliantine. Paul E. Chu, Honolulu, Territory of Hawaii.
Filed July 23, 1951, Serial No. 616,816. Published Apr. 28, 1953. Class 51.

579,287. Women's and Girls' Hats. Impulse Items, New York, N. Y.
Filed July 24, 1951, Serial No. 616,855. Published May 26, 1953. Class 39.

579,288. Ointment. Charles J. Boudreaux, Abbeville, La.
Filed Aug. 4, 1951, Serial No. 617,334. Published June 2, 1953. Class 18.

579,289. Refractory Cement. The Inland Fire Brick Company, Cleveland, Ohio.
Filed July 19, 1951, Serial No. 618,262. Published May 19, 1953. Class 12.

579,290. Imitation Chocolate Coating for Frozen Confectionery Products. Fruit Products Corporation, New York, N. Y.
Filed Sept. 19, 1951, Serial No. 618,961. Published June 2, 1953. Class 46.

579,291. Sandwiches and Bakery Goods—Namely, Cakes, Pies, and Pastries. Continental Grill, Wichita, Kans.
Filed Oct. 1, 1951, Serial No. 619,451. Published June 2, 1953. Class 46.

579,292. Corrosion-Resistance Coated Metal Building and Construction Materials—Namely, Building Framing Members, Etc. Copco Steel & Engineering Company, Detroit, Mich.
Filed Oct. 19, 1951, Serial No. 620,198. Published May 19, 1953. Class 12.

579,293. Sifter Brushes Made of Pieces of Belting, for Use as Parts of Flour Sifting Machinery. Victor Balata & Textile Belting Co., Easton, Pa., and New York, N. Y.
Filed Oct. 19, 1951, Serial No. 620,241. Published May 12, 1953. Class 23.

579,294. Dry Shavers, Safety Razors, Straight Razors, and Hair Clippers. Arvin Electric Limited, Southend-on-Sea, England.
Filed Oct. 23, 1951, Serial No. 620,333. Published May 12, 1953. Class 23.

579,295. Electric Vacuum Cleaners, Radio Receiving Sets, Battery Chargers, Magnetos, Spark Plugs, Ignition Coils, and Coil Points. Kingston Products Corporation, Kokomo, Ind.
Filed Oct. 26, 1951, Serial No. 620,509. Published June 2, 1953. Class 21.

579,296. Men's and Boys' Trousers and Slacks. Webster Company, Inc., Scranton, Pa.
Filed Nov. 9, 1951, Serial No. 621,093. Published June 24, 1952. Class 39.

579,297. Packaged Installation System Comprising Various H-Section and T-Section Steel Members Used for Installing Acoustical Tile and Building Boards in a Building Structure. Ray Riethmiller, Columbus, Ohio.
Filed Nov. 14, 1951, Serial No. 621,227. Published May 19, 1953. Class 12.

579,298. Magnetically Operated Recording and Playback Apparatus. Amplifier Corporation of America, New York, N. Y.
Filed Nov. 21, 1951, Serial No. 621,496. Published June 2, 1953. Class 21.

579,299. Laxative Preparation for Human Use. Karl H. Sautter, doing business as Leo Products, Chicago, Ill.
Filed Nov. 23, 1951, Serial No. 621,580. Published May 26, 1953. Class 18.

579,300. Storm Windows and Storm Window Frames. Arlite Industries, Inc., Newark, N. J.
Filed Nov. 26, 1951, Serial No. 621,651. Published May 19, 1953. Class 12.

579,301. Men's and Boys' Apparel and Sportswear—Namely, Underwear Consisting of Shirts, Vests, Shorts, Etc. The Russell Manufacturing Company, Alexander City, Ala.
Filed Nov. 28, 1951, Serial No. 621,786. Published May 26, 1953. Class 39.

579,302. Machine Tools—Namely, Lathes. The Lodge and Shipley Company, Cincinnati, Ohio.
Filed Dec. 7, 1951, Serial No. 622,242. Published May 12, 1953. Class 23.

579,303. Vitamin Preparation. American Cyanamid Company, New York, N. Y.
Filed Dec. 20, 1951, Serial No. 622,705. Published May 26, 1953. Class 18.

579,304. Fireplace Equipment—Namely, Metal Andirons, Fireplace Screens, Cape Cod Burners, and Radiator Shields; Candle Snuffers; Electric Ventilators. Miller and Rhoads, Incorporated, Richmond, Va.
Filed Dec. 10, 1951, Serial No. 623,114. Published May 26, 1953. Class 34.

579,305. Neutralizing Lotion Used in Permanent Hair Waving. Sales Affiliates, Inc., New York, N. Y.
Filed Jan. 5, 1952, Serial No. 623,261. Published May 12, 1953. Class 51.

579,306. After Shave Lotion, Brilliantine, Eau de Cologne, Eau de Quinine, Hair Cream, Hair Fixer, Hair Lotion, Hair Pomade, and Perfume. Lucky Strike Perfumeries Corporation, New York, N. Y.
Filed Jan. 9, 1952, Serial No. 623,357. Published May 12, 1953. Class 51.

579,307. Machines for Capping or Vacuum Capping Jars and Other Containers. Crown Cork & Seal Company, Inc., Baltimore, Md.
Filed Jan. 18, 1952, Serial No. 623,752. Published Feb. 10, 1953. Class 23.

579,308. Powders for Making Effervescent Water Used as an Alkalising Agent. A. Gazzoni & C., Bologna, Italy.
Filed Jan. 18, 1952, Serial No. 623,758. Published June 2, 1953. Class 18.

579,309. Balanced Vitamin and Amino Acid Supplement. Ricci Laboratories, Inc., New York, N. Y.
Filed Jan. 30, 1952, Serial No. 624,296. Published May 26, 1953. Class 18.

579,310. Typewriters and Parts Thereof. Olympia Büromaschinenwerke A. G., Wilhelmshaven, Germany.
Filed Jan. 9, 1952, Serial No. 624,520. Published Feb. 24, 1953. Class 23.

579,311. Glass Building Materials—Namely, Panels, Slabs, and Tiles for Walls or Table Tops. Marbelex Products, Inc., New York, N. Y.
Filed Feb. 12, 1952, Serial No. 624,840. Published May 19, 1953. Class 12.

579,312. Medical Preparation—Namely, an Intramuscular or Subcutaneous Injection of Physostigmine and Homatropine for the Relief of Muscle Spasm. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn.
Filed Feb. 15, 1952, Serial No. 625,034. Published June 2, 1953. Class 18.

579,313. Permanent Wave Solution. Jules E. Bernfeld, trading as Jules, Alexandria and Arlington, Va.
Filed Feb. 18, 1952, Serial No. 625,092. Published May 19, 1953. Class 51.

579,314. Lavender Water, Brilliantine, Talcum Powder, and Presentation Caskets Containing Combinations of the Same. J. G. Mouson & Co., Frankfurt am Main, Germany.
Filed Dec. 15, 1951, Serial No. 625,320. Published May 19, 1953. Class 51.

579,315. Facial Cream Preparations, Toilet Preparation Serving as a Base for Face Powder, and Hand Creams. Amole, Incorporated, Dayton, Ohio.
Filed Feb. 23, 1952, Serial No. 625,389. Published May 12, 1953. Class 51.

579,316. Hydrated Lime and Quicklime. United States Gypsum Company, Chicago, Ill.
Filed Feb. 26, 1952, Serial No. 625,553. Published Apr. 28, 1953. Class 12.

579,317. Chemical Liquid for Moistening, Conditioning, Twist-Setting, Lubrication, and Mildew-Proofing of Textile Fibers and Yarns. Charles F. Dulken, Kearny, N. J.
Filed Feb. 27, 1952, Serial No. 625,587. Published June 9, 1953. Class 6.

579,318. Adenosine Triphosphoric Acid for Investigational Use in the Treatment of Diseases Such as Arthritis and Hypertension. Schwarz Laboratories, Inc., New York, N. Y.
Filed Feb. 29, 1952, Serial No. 625,759. Published May 26, 1953. Class 18.

579,319. Window and Shower Curtains, Ruffling for Rodless Curtains, and Tablecloths, All Made and Manufactured From Plastic Film, Together With Plastic Film Sold by the Yard and in the Roll. Joseph's, Portland, Oreg.
Filed Mar. 10, 1952, Serial No. 626,206. Published June 9, 1953. Class 42.

579,320. Flexible Plastic Sheeting or Film (in the General Nature of an Equivalent or a Substitute for Leather but Having a Variety of Colors and Designs) for Use as Furniture Upholstery, Seat Covers, Interior Auto Trim, and for Other Industrial Uses. The Landers Corporation, Toledo, Ohio.
Filed Mar. 13, 1952, Serial No. 626,389. Published May 19, 1953. Class 50.

579,321. Valves Operated by an Electromagnet. Robertshaw-Fulton Controls Company, Greensburg, Pa.
Filed Mar. 13, 1952, Serial No. 626,417. Published June 9, 1953. Class 21.

579,322. Metal Valves and Cocks for Controlling Gaseous Fluids. Robertshaw-Fulton Controls Company, Greensburg, Pa.
Filed Mar. 13, 1952, Serial No. 626,418. Published June 9, 1953. Class 13.

579,323. Valves Operated by an Electromagnet. Robertshaw-Fulton Controls Company, Greensburg, Pa.
Filed Mar. 13, 1952, Serial No. 626,419. Published June 9, 1953. Class 21.

579,324. Marshmallow and Marshmallow Creams, Corn Syrup, and Table Syrup. Union Starch & Refining Company, Columbus, Ind.
Filed Mar. 14, 1952, Serial No. 626,484. Published June 2, 1953. Class 46.

579,325. Men's Suits. Robert Hall Clothes, Inc., New York, N. Y.
Filed Mar. 18, 1952, Serial No. 626,626. Published June 2, 1953. Class 39.

579,326. Women's and Misses' Robes—Namely, Bath Robes, Beach Robes, Negligees, Brunch Coats, Housecoats, Leisure Robes, and Hostess Coats. Royal Robes, Inc., New York, N. Y.
Filed Mar. 18, 1952, Serial No. 626,641. Published June 2, 1953. Class 39.

579,327. Lipstick, Rouge, and Face Powder. Coty, Inc., New York, N. Y.
Filed Mar. 22, 1952, Serial No. 626,861. Published Apr. 28, 1953. Class 51.

579,328. Infant Food Consisting of Tuberculin Tested Cows' Milk, Etc. The Baker Laboratories, Inc., Cleveland, Ohio.
Filed Mar. 26, 1952, Serial No. 627,036. Published Jan. 27, 1953. Class 46.

579,329. Canned Sardines in Olive Oil. Feu Hermanos Responsabilidade Limitada, Portimao, Portugal.
Filed Mar. 26, 1952, Serial No. 627,057. Published May 12, 1953. Class 46.

579,330. Rotary Liquid Pumps. Kinney Manufacturing Company, Boston, Mass.
Filed Mar. 26, 1952, Serial No. 627,069. Published May 12, 1953. Class 23.

579,331. Lard. Lookout Oil and Refining Company, Chattanooga, Tenn., assignor to Armour and Company, a corporation of Illinois.
Filed Mar. 28, 1952, Serial No. 627,201. Published June 2, 1953. Class 46.

579,332. Caps. Kenneth Hassler, New York, N. Y.
Filed Mar. 20, 1952, Serial No. 627,308. Published May 19, 1953. Class 39.

579,333. Tea. Holland House Coffee and Tea Corp., Long Island City, N. Y.
Filed Apr. 1, 1952, Serial No. 627,391. Published June 2, 1953. Class 46.

579,334. Metal Trays for Attachment to the Dashboards of Automobiles. S & S Industries, Chicago, Ill.
Filed Apr. 5, 1952, Serial No. 627,645. Published June 9, 1953. Class 19.

579,335. Men's Suits. Merit Clothing Company, Mayfield, Ky.
Filed Apr. 7, 1952, Serial No. 627,692. Published May 19, 1953. Class 39.

579,336. Toy Comprising Two Divergently Arranged Flexible Strips Attached to One End of an Elongated Cylindrical Body Portion for Causing Said Combination To Fly. Dale F. Sweet, Chandler, Ariz.
Filed Apr. 8, 1952, Serial No. 627,781. Published June 9, 1953. Class 22.

579,337. Polymerizable Casting Materials Comprising Synthetic Resins Marketed in Both the Liquid and Solid State. Snyder Chemical Corporation, Bethel, Conn.
Filed Apr. 9, 1952, Serial No. 627,845. Published June 9, 1953. Class 6.

579,338. Fishing Rods. Norm Begg Co., Newport Beach, Calif.
Filed Apr. 10, 1952, Serial No. 627,863. Published June 9, 1953. Class 22.

579,339. Preparation for Sex Hormone Therapy. Ciba Pharmaceutical Products, Inc., Summit, N. J.
Filed Apr. 15, 1952, Serial No. 628,091. Published June 2, 1953. Class 18.

579,340. Motor Vehicle Propeller Shafts and Universal Joints and Parts Thereof. Universal Products Company, Inc., Dearborn, Mich.
Filed Apr. 15, 1952, Serial No. 628,132. Published Feb. 24, 1953. Class 23.

579,341. Ice Cream. Loft Candy Corporation, also doing business as Loft Candy Shops, Long Island City, N. Y.
Filed Apr. 16, 1952, Serial No. 628,156. Published June 2, 1953. Class 46.

579,342. Fabrics in the Piece, Including Metallic Insulated Fabrics, Both Quilted and Unquilted of Rayon or Acetate Fibers, or Combinations Thereof. Marlboro Fabrics, Inc., New York, N. Y.
Filed Apr. 17, 1952, Serial No. 628,215. Published June 2, 1953. Class 42.

579,343. Artificial Fish Lures. The Creek Chub Bait Company, Garrett, Ind.
Filed Apr. 19, 1952, Serial No. 628,347. Published June 9, 1953. Class 22.

579,344. Boys' Suits and Slacks. Boy-Crest Clothes, Inc., New York, N. Y.
Filed Apr. 22, 1952, Serial No. 628,464. Published June 2, 1953. Class 39.

579,345. Vitamin Tonic, Cough Syrup, Medicinal Mineral Oil, and Rubbing Alcohol. Marcantel Medicine Co. Inc., Elton, La.
Filed Apr. 22, 1952, Serial No. 628,501. Published May 26, 1953. Class 18.

579,346. Internal Combustion Engines and Parts Thereof. Cummins Engine Company, Inc., Columbus, Ind.
Filed Apr. 29, 1952, Serial No. 628,850. Published Feb. 24, 1953. Class 23.

579,347. Textile Fabrics, Impregnated With Rubber, or Rubber-Like Material, for Use in Making Non-Slip Gloves, Pads, Industrial Textile Clothing, and the Like. The Scholl Mfg. Co., Inc., Chicago, Ill.
Filed May 1, 1952, Serial No. 629,060. Published June 9, 1953. Class 42.

579,348. Chimney Caps. Carl W. Adelt, doing business as Uni-Therm Company, Mays Landing, N. J.
Filed May 9, 1952, Serial No. 629,400. Published May 26, 1953. Class 34.

579,349. Electrical Sewing Machines. N. V. Fridor Fabrieken, The Hague, Netherlands.
Filed May 14, 1952, Serial No. 629,686. Published Apr. 14, 1953. Class 23.

579,350. Dry, Completely Soluble Household Bleaching Agent. Foote Mineral Company, Philadelphia, Pa.
Filed May 20, 1952, Serial No. 629,939. Published June 9, 1953. Class 6.

579,351. Linen Fabrics for Use in Men's, Women's, and Children's Clothing, Housefurnishings, Such as Tablecloths, Napkins, Towels, and Draperies. Union Liniere d'Exportation, S. A. R. L., Paris, Seine, France.
Priority under Sec. 44(d). French Registration No. 419,076, filed Mar. 31, 1952.
Filed May 21, 1952, Serial No. 630,043. Published June 9, 1953. Class 42.

579,352. Ice Cream Cones. York Cone Company, York, Pa.
Filed May 23, 1952, Serial No. 630,177. Published June 2, 1953. Class 46.

579,353. Fine Chemicals—Namely, Nicotinic Acid, Benzoic Acid, and Methyl Ethyl Pyridine; and Oil-Chemical Mixtures—Namely, Oxidized Petroleum, Anti-Oxidant Solutions, and Naphthenic Acid and Sodium and Lead Salts Thereof. E. E. Litkenhous, doing business as Litko Products and Chemical Company, Nashville, Tenn.
Filed May 26, 1952, Serial No. 630,274. Published June 9, 1953. Class 6.

579,354. Frankfurters. Sabrett Food Products Corp., Jersey City, N. J.
Filed June 3, 1952, Serial No. 630,682. Published May 26, 1953. Class 46.

579,355. Gas Ranges and Stoves. The Tappan Stove Company, Mansfield, Ohio.
Filed June 14, 1952, Serial No. 631,224. Published May 12, 1953. Class 34.

579,356. Sheets and Pillow Cases. J. P. Stevens & Co., Inc., New York, N. Y.
Filed June 17, 1952, Serial No. 631,322. Published Jan. 13, 1953. Class 42.

579,357. Table Game Played With a Pair of Dice and a Deck of Specially Designed Cards. William J. Weir, Devon, Conn.
Filed June 17, 1952, Serial No. 631,333. Published June 9, 1953. Class 22.

579,358. Games—Namely, Card Games, Horse Shoe Pitching Games, Etc. F. A. O. Schwarz, New York, N. Y.
Filed June 19, 1952, Serial No. 631,440. Published June 9, 1953. Class 22.

579,359. Women's Underwear, Nightgowns, and Pajamas; Slips, Half-Slips, and Petticoats for Children, Pre-Teens, and Teens, and Panties for Children. Her Majesty Underwear Company, Leola, Pa., and New York, N. Y.
Filed June 23, 1952, Serial No. 631,615. Published June 9, 1953. Class 39.

579,360. Maternity Articles of Apparel—Namely, Panties Having Hose Supporter Means. Marcus G. Kelly, San Diego, Calif.
Filed July 2, 1952, Serial No. 632,091. Published June 9, 1953. Class 39.

579,361. Preparations for Repairing, Preserving, and Beautifying Finger Nails, Etc. Juliette Margien, Inc., Los Angeles, Calif.
Filed July 5, 1952, Serial No. 632,164. Published May 19, 1953. Class 51.

579,362. Woven Fabric of Cotton and Nylon. C. R. Anthony Company, Oklahoma City, Okla.
Filed July 8, 1952, Serial No. 632,236. Published June 9, 1953. Class 42.

579,363. Powered Roof Ventilators. Penn Ventilator Company, Philadelphia, Pa.
Filed July 9, 1952, Serial No. 632,323. Published May 5, 1953. Class 34.

579,364. Men's Hats. Portis Style Industries, Inc., Chicago, Ill.
Filed July 9, 1952, Serial No. 632,326. Published June 2, 1953. Class 39.

579,365. Perfumes, Toilet Waters, Colognes, Cologne Sticks, and Sachet Powders. Maurice Fabricant, New York, N. Y.
Filed July 15, 1952, Serial No. 632,554. Published Apr. 28, 1953. Class 51.

579,366. Perfumes, Toilet Waters, Colognes, Cologne Sticks, and Sachet Powders. Maurice Fabricant, New York, N. Y.
Filed July 15, 1952, Serial No. 632,555. Published May 12, 1953. Class 51.

579,367. Perfumes, Toilet Waters, Colognes, Cologne Sticks, and Sachet Powders. Maurice Fabricant, New York, N. Y.
Filed July 15, 1952, Serial No. 632,557. Published Apr. 28, 1953. Class 51.

579,368. Perfumes, Toilet Waters, Colognes, Cologne Sticks, and Sachet Powders. Maurice Fabricant, New York, N. Y.
Filed July 15, 1952, Serial No. 632,559. Published Apr. 28, 1953. Class 51.

579,369. Men's Apparel; Outer Shirts, Sport Shirts, Sport Coats, Jackets, Suits, and Neckties; and the Following Women's Apparel; Outer Shirts, Blouses, Suits, and Jackets. Charles Mosel, Chicago, Ill.
Filed July 16, 1952, Serial No. 632,628. Published May 19, 1953. Class 39.

579,370. Electric Motor-Propelled Chair Vehicles. Glenn A. Steven, doing business under the firm name Steven Motor Chair Co., Kansas City, Kans.
Filed July 18, 1952, Serial No. 632,758. Published June 9, 1953. Class 19.

579,371. Rubber Horseshoes for Use in Playing the Game of Horseshoes. Healthways, Los Angeles, Calif.
Filed July 21, 1952, Serial No. 632,840. Published June 9, 1953. Class 22.

579,372. Cotton Piece Goods. Glencoe Mills, Burlington, N. C.
Filed July 23, 1952, Serial No. 632,933. Published June 2, 1953. Class 42.

579,373. Certain Garments for Children—Namely, Bath Robes, Pajamas, Overalls, Creepers, Jackets, Hats, Suits, and Dresses. Periwinkle, Inc., New York, N. Y.
Filed July 23, 1952, Serial No. 632,954. Published May 26, 1953. Class 39.

579,374. Wool Yarns. Spinnerin Yarn Co., Inc., South Hackensack, N. J.
Filed July 28, 1952, Serial No. 633,176. Published June 2, 1953. Class 43.

579,375. Playing Card Holder for Holding Cards in Playing the Game. Gladys M. Johnson, Timber, Oreg.
Filed July 29, 1952, Serial No. 633,203. Published June 9, 1953. Class 22.

579,376. Canned Clam Chowder, Bottled Tartar Sauce, Canned Fish Chowder, Canned Minced Clams, and Canned Lobster Stew. Jacob August, doing business as Jack August's, Northampton, Mass.
Filed Aug. 5, 1952, Serial No. 633,482. Published June 2, 1953. Class 46.

579,377. Canned Clam Chowder, Bottled Tartar Sauce, Canned Fish Chowder, Canned Minced Clams, and Canned Lobster Stew. Jacob August, doing business as Jack August's, Northampton, Mass.
Filed Aug. 5, 1952, Serial No. 633,483. Published June 2, 1953. Class 46.

579,378. Popcorn in Its Raw State. Premier Popcorn Co., Watseka, Ill.
Filed Aug. 5, 1952, Serial No. 633,508. Published June 2, 1953. Class 46.

579,379. Preparation for Use as an Antiseptic, Germicide, and Deodorant. Lucas Products Corporation, Toledo, Ohio.
Filed Aug. 12, 1952, Serial No. 633,776. Published May 26, 1953. Class 18.

579,380. Work Gloves Made of Fabric, Leather, and Combinations Thereof. Morris L. Slimovitz, doing business as Morris Manufacturing Company, Newbern, Tenn.
Filed Aug. 13, 1952, Serial No. 633,884. Published June 2, 1953. Class 39.

579,381. Skin Cream Cleanser. Ruth Adams, Minneapolis, Minn.
Filed Aug. 14, 1952, Serial No. 633,905. Published May 19, 1953. Class 51.

579,382. Bread. J. Henry Axelson, doing business as Swedish Boy Bakery, Seattle, Wash.
Filed Aug. 15, 1952, Serial No. 633,956. Published June 9, 1953. Class 46.

579,383. Bread. J. Henry Axelson, doing business as Swedish Boy Bakery, Seattle, Wash.
Filed Aug. 15, 1952, Serial No. 633,957. Published June 9, 1953. Class 46.

579,384. Toilet Seat for Infants, Attached to an Adult Toilet Seat, and Anti-Splash Deflector for Attachment to Infant's Toilet Seat. The Toidey Company, Gertrude A. Muller, Inc., Fort Wayne, Ind.
Filed Aug. 20, 1952, Serial No. 634,224. Published June 9, 1953. Class 13.

579,385. Cooking Ranges. Henry N. Clark Co., Boston, Mass.
Filed Aug. 21, 1952, Serial No. 634,238. Published May 26, 1953. Class 34.

579,386. Vitamin Preparation. James H. Austin, doing business as J. H. Austin Company, Charlotte, N. C.
Filed Aug. 23, 1952, Serial No. 634,361. Published June 9, 1953. Class 18.

579,387. Barbecue Units. Arthur J. Hood, Reno, Nev.
Filed Aug. 25, 1952, Serial No. 634,412. Published May 26, 1953. Class 34.

579,388. Brassières, Foundation Garments, Girdles, and Garter Belts. Beautee-Fit Company, Los Angeles, Calif.
Filed Aug. 26, 1952, Serial No. 634,444. Published June 9, 1953. Class 39.

579,389. Decorative Panels of Translucent Plastic Material for Use in Window and Door Openings and as Partitions. Russell Reinforced Plastics Corporation, Lindenhurst, N. Y.
Filed Aug. 27, 1952, Serial No. 634,550. Published June 2, 1953. Class 12.

579,390. Reflectors. General Motors Corporation, Detroit, Mich.
Filed Aug. 28, 1952, Serial No. 634,585. Published May 5, 1953. Class 34.

579,391. Woolen and Worsted Fabrics in the Piece. The House of Swansdown, Inc., New York, N. Y.
Filed Aug. 28, 1952, Serial No. 634,595. Published June 9, 1953. Class 42.

579,392. Woolen and Worsted Fabrics. Pola Stout Inc., New York, N. Y.
Filed Sept. 6, 1952, Serial No. 634,952. Published June 9, 1953. Class 42.

579,393. Liquid Fuel Catalytic Type Hand Warmers. Aladdin Laboratories, Inc., Minneapolis, Minn.
Filed Sept. 11, 1952, Serial No. 635,113. Published May 12, 1953. Class 34.

579,394. Woolen and Worsted Fabrics in the Piece. The House of Swansdown, Inc., New York, N. Y.
Filed Sept. 12, 1952, Serial No. 635,183. Published June 9, 1953. Class 42.

579,395. Canned Cat Food. Lind & Lind, Seattle, Wash.
Filed Sept. 17, 1952, Serial No. 635,367. Published June 2, 1953. Class 46.

579,396. Metal Film Precision Resistors for Use in Electrical and Electronic Circuits. John G. Ruckelshaus Labs. Inc., Madison, Wis.
Filed Sept. 17, 1952, Serial No. 635,384. Published June 2, 1953. Class 21.

579,397. Material for Use in Removing or Replacing Ions or Acid-Forming Constituents From Fluids. Rohm & Haas Company, Philadelphia, Pa.
Filed Sept. 23, 1952, Serial No. 635,663. Published June 9, 1953. Class 6.

579,398. Sportswear — Namely, Hunting and Shooting Jackets, Etc. Eddie Bauer, Seattle, Wash.
Filed Sept. 26, 1952, Serial No. 635,809. Published May 19, 1953. Class 39.

579,399. Quick Frozen Concentrated Orange Juice. Clinton Foods Inc., New York, N. Y.
Filed Sept. 27, 1952, Serial No. 635,872. Published June 9, 1953. Class 46.

579,400. Men's Suits and Coats Made From 100% Wool. Friedman-Marks Clothing Co., Inc., Richmond, Va.
Filed Sept. 29, 1952, Serial No. 635,914. Published May 19, 1953. Class 39.

579,401. Moth Proofing Preparation. Claire Manufacturing Company, Chicago, Ill.
Filed Oct. 1, 1952, Serial No. 635,998. Published June 9, 1953. Class 6.

579,402. Chemicals Having Bactericidal, Bacteristatic or Deodorant Properties, and Being Suitable for Use in Soap, Cosmetics, and Other Preparations for Personal Use. Monsanto Chemical Company, St. Louis, Mo.
Filed Oct. 1, 1952, Serial No. 636,025. Published June 9, 1953. Class 6.

579,403. Leather and Comparable Straps for Textile Machinery, the Foregoing Being Finished Articles. Southern Belting Company, Atlanta, Ga.
Filed Oct. 1, 1952, Serial No. 636,037. Published May 12, 1953. Class 23.

579,404. Cooking Ranges. J. Rose & Co. Inc., Brooklyn, N. Y.
Filed Oct. 6, 1952, Serial No. 636,254. Published May 5, 1953. Class 34.

579,405. Men's Necktles, Handkerchiefs, Gloves Made of Leather, Fabric or Combinations Thereof, Etc. Bronsini, Ltd., New York, N. Y.
Filed Oct. 8, 1952, Serial No. 636,338. Published June 2, 1953. Class 39.

579,406. Hot and Mild Barbecue Sauce. Elon I. Napier, Columbus, Ga.
Filed Oct. 8, 1952, Serial No. 636,373. Published June 2, 1953. Class 46.

579,407. Electric Lighting Fixtures and Parts Thereof. Moe Light, Inc., Fort Atkinson, Wis.
Filed Oct. 15, 1952, Serial No. 636,648. Published June 2, 1953. Class 21.

579,408. Antibiotic and Vitamin Supplements for Animal and Poultry Feed. Merck & Co. Inc., Rahway, N. J.
Filed Oct. 16, 1952, Serial No. 636,724. Published June 2, 1953. Class 18.

579,409. Electrically Operated Apparatus and Tools—Namely, Portable Drills, Saws, Portable Hand Drills and Sanding and Buffing Attachments Therefor Sold in a Kit as a Unit, Racks and Stands Specially Designed for Holding Portable Hand Drills in Operation, and Electric Motors. Portable Electric Tools, Inc., Chicago, Ill.
Filed Oct. 18, 1952, Serial No. 636,862. Published June 2, 1953. Class 21.

579,410. Women's Girdles, Panty Girdles, and Combinations or One Piece Foundation Garments. The Strouse, Adler Company, New Haven, Conn.
Filed Oct. 16, 1952, Serial No. 636,750. Published June 9, 1953. Class 39.

579,411. Hats for Men. Hat Corporation of America, Norwalk, Conn.
Filed Oct. 22, 1952, Serial No. 636,981. Published June 2, 1953. Class 39.

579,412. Disinfectant, Deodorant, and Germicide for General Household and Similar Uses. Hal-Pro Processing Company, Patton, Pa.
Filed Oct. 23, 1952, Serial No. 637,049. Published June 9, 1953. Class 6.

579,413. Anti-Freeze Solutions. Van Waters & Rogers, Inc., Seattle, Wash.
Filed Oct. 24, 1952, Serial No. 637,159. Published June 9, 1953. Class 6.

579,414. Men's and Boys' Shirts, Undershirts, Undershorts, and Pajamas. Piedmont Shirt Company, Greenville, S. C.
Filed Oct. 28, 1952, Serial No. 637,287. Published June 2, 1953. Class 39.

579,415. Ladies', Men's, and Boys' Swimsuits and Swimming Trunks. Cisco-California, Inc., Los Angeles, Calif.
Filed Oct. 30, 1952, Serial No. 637,361. Published June 2, 1953. Class 39.

579,416. Men's and Women's Knitted Shirts for Under or Outer Wear. Jerry P. Lesley, Sunset, S. C.
Filed Oct. 30, 1952, Serial No. 637,381. Published May 26, 1953. Class 39.

579,417. Antibiotic Feed Supplements. Schenley Laboratories, Inc., New York, N. Y.
Filed Oct. 30, 1952, Serial No. 637,402. Published May 26, 1953. Class 18.

579,418. Plastic Sealing Substance for Sewer-Pipe Joints. Joseph G. Skopek, doing business as Sewer Builders Supplies, Chicago, Ill.
Filed Nov. 1, 1952, Serial No. 637,505. Published Apr. 28, 1953. Class 12.

579,419. Piece Goods of Nylon, Rayon, Cotton, Wool, or Silk, or Substitutes Therefor, or Combinations Thereof. United Merchants and Manufacturers, Inc., New York, N. Y.
Filed Nov. 1, 1952, Serial No. 637,507. Published June 2, 1953. Class 42.

579,420. Maternity Garments—Namely, Dresses, Suits, Jackets, Skirts, Blouses, Slacks, Slips, Panties, Brassières, Girdles, Garter Belts, Etc. Epectation Shops, San Francisco, Calif.
Filed Oct. 7, 1952, Serial No. 637,514. Published June 9, 1953. Class 39.

579,421. Electronic Tubes. Columbia Broadcasting System, Inc., doing business as CBS-Hytron, New York, N. Y., and Danvers, Mass.
Filed Nov. 5, 1952, Serial No. 637,645. Published May 12, 1953. Class 21.

579,422. Piece Goods of Cotton, Wool, Linen, Silk, and Synthetic Fibers for Decorative, Drapery, and Upholstery Purposes. Spectrum Fabrics Corporation, New York, N. Y.
Filed Nov. 6, 1952, Serial No. 637,728. Published June 2, 1953. Class 42.

579,423. Misses' and Women's Dresses. Top Mode Manufacturing Co., Dauphin, Pa.
Filed Nov. 6, 1952, Serial No. 637,733. Published June 2, 1953. Class 39.

579,424. Women's, Misses', and Juniors' Dresses. Allied Stores Corporation, New York, N. Y.
Filed Nov. 10, 1952, Serial No. 637,855. Published June 2, 1953. Class 39.

579,425. Wool Carpeting. Peirce and Company, Los Angeles, Calif.
Filed Nov. 10, 1952, Serial No. 637,885. Published June 2, 1953. Class 42.

579,426. Cold Germicidal Concentrate Used To Sanitize, Deodorize, and Prevent Rusting of Surgical Instruments, Etc. The William A. Webster Company, Memphis, Tenn.
Filed Nov. 10, 1952, Serial No. 637,897. Published June 9, 1953. Class 6.

579,427. Protective Jel for Application and Rubbing Into the Skin. Hygiene Research, Inc., New York, N. Y.
Filed Nov. 12, 1952, Serial No. 637,923. Published May 19, 1953. Class 51.

579,428. Combined Shower and Shampoo Caps. Gertrude E. Wixson, doing business as Wix Manufacturing Co., Kansas City, Mo.
Filed Nov. 12, 1952, Serial No. 637,970. Published June 2, 1953. Class 39.

579,429. Gloves Made of Fabric. Julius Kayser & Co., New York, N. Y.
Filed Nov. 13, 1952, Serial No. 637,997. Published June 2, 1953. Class 39.

579,430. Detonators—Namely, Electric Blasting Caps. Atlas Powder Company, Wilmington, Del.
Filed Nov. 14, 1952, Serial No. 638,054. Published June 9, 1953. Class 9.

579,431. Woolen Piece Goods. A. D. Juilliard & Co., Inc., New York, N. Y.
Filed Nov. 14, 1952, Serial No. 638,067. Published June 9, 1953. Class 42.

579,432. Men's, Women's, Boys', and Girls' Knitted and Woven Outerwear—Namely, T Shirts, Cardigans, Suits, Shorts, Sweaters, and Pajamas. Manchester Knitted Fashions, Inc., Manchester, N. H.
Filed Nov. 18, 1952, Serial No. 638,265. Published June 2, 1953. Class 39.

579,433. Ear Muffs for Men, Women, and Children. Abe. A. Rosenberg, New York, N. Y.
Filed Nov. 19, 1952, Serial No. 638,315. Published June 2, 1953. Class 39.

579,434. Ladies' and Misses' Skirts. Martin Fishkop & Co., St. Louis, Mo.
Filed Nov. 20, 1952, Serial No. 638,357. Published June 9, 1953. Class 39.

579,435. Asbestos-Cement Siding. The Ruberoid Co., Bound Brook, N. J., and New York, N. Y.
Filed Nov. 20, 1952, Serial No. 638,374. Published May 19, 1953. Class 12.

579,436. Piece Goods, Including Muslin, of Cotton, Rayon, Nylon, and Other Synthetic Fibers. Butler Brothers, Chicago, Ill.
Filed Nov. 22, 1952, Serial No. 638,472. Published June 2, 1953. Class 42.

579,437. Textile Fabrics of Wool and Synthetic Fibers, in the Piece. C. M. De Land, New York, N. Y.
Filed Nov. 22, 1952, Serial No. 638,478. Published June 9, 1953. Class 42.

579,438. Toy Pistols, Toy Tents, Toy Lassos, Toy Badges, Toy Spurs, and Toy Western Towns. Delira Corporation, Los Angeles, Calif.
Filed Nov. 24, 1952, Serial No. 638,525. Published June 2, 1953. Class 22.

579,439. Ceramic Dolls. Louise Cook Goodwin, Arlington, Tex.
Filed Nov. 24, 1952, Serial No. 638,532. Published June 9, 1953. Class 22.

579,440. Fabrics in the Piece of Cotton and Synthetic Fibres. Cone Mills Inc., New York, N. Y.
Filed Nov. 28, 1952, Serial No. 638,699. Published June 9, 1953. Class 42.

579,441. Electric Water Heaters. Wellman B. Ford, doing business under the name and style of Ford Steel Products Corporation, of New York, Tarrytown, N. Y.
Filed Nov. 28, 1952, Serial No. 638,709. Published June 2, 1953. Class 21.

579,442. Floor Mops. S. H. Kress and Company, New York, N. Y.
Filed Nov. 28, 1952, Serial No. 638,720. Published June 2, 1953. Class 29.

579,443. Men's Overcoats, Sport Jackets, and Men's Suits. Joseph Clavin & Co. Inc., New York, N. Y.
Filed Nov. 29, 1952, Serial No. 638,754. Published June 2, 1953. Class 39.

579,444. Containers for Electric Storage Batteries. The Richardson Company, Lockland, Cincinnati, Ohio.
Filed Dec. 2, 1952, Serial No. 638,872. Published June 2, 1953. Class 21.

579,445. Baseball Gloves and Mitts, Foot Balls, Basket Balls, and Volley Balls. M. Denkert & Company, Johnstown, N. Y.
Filed Dec. 3, 1952, Serial No. 638,902. Published June 2, 1953. Class 22.

579,446. Air Rifle Shot. Federal Cartridge Corporation, Minneapolis, Minn.
Filed Dec. 4, 1952, Serial No. 638,954. Published June 9, 1953. Class 9.

579,447. Reels for Magnetic Sound-Recording Tape. Minnesota Mining and Manufacturing Company, St. Paul, Minn.
Filed Dec. 4, 1952, Serial No. 638,967. Published June 2, 1953. Class 21.

579,448. Non-Magnetic Tape To Be Attached to an End of, or Spliced in Along the Length of, a Strip of Magnetic Sound-Recording Tape, Whereby Predetermined Periods of Silence May Be Obtained When Said Sound-Recording Tape Is Played in a Machine. Minnesota Mining and Manufacturing Company, St. Paul, Minn.
Filed Dec. 4, 1952, Serial No. 638,968. Published June 2, 1953. Class 21.

579,449. Socket Head Screws, Drive Screws, Cap Screws, Set Screws, Drilled Head Screws and Bolts, Aircraft Screws, Bolts, and Pins, Sheet Metal Screws, Studs, Etc. Rockford Screw Products Co., Rockford, Ill.
Filed Dec. 4, 1952, Serial No. 638,977. Published June 2, 1953. Class 13.

579,450. Medicinal Preparation for Treatment of Intestinal Stasis. The Harrower Laboratory, Inc., Jersey City, N. J.
Filed Dec. 5, 1952, Serial No. 639,042. Published May 26, 1953. Class 18.

579,451. Fabrics in the Piece of Cotton and Synthetic Fibres. Cone Mills Inc., New York, N. Y.
Filed Dec. 10, 1952, Serial No. 639,265. Published June 9, 1953. Class 42.

579,452. Window Curtains. Bartmann & Bixer, Inc., New York, N. Y.
Filed Dec. 11, 1952, Serial No. 639,310. Published June 2, 1953. Class 42.

579,453. Bath Rugs and Lid Covers, Bedspreads, and Textile Carpets and Rugs. Cabin Crafts, Inc., Dalton, Ga.
Filed Dec. 11, 1952, Serial No. 639,312. Published June 9, 1953. Class 42.

579,454. Candy. The Jolly Rancher, Incorporated, Wheat Ridge, Colo.
Filed Dec. 11, 1952, Serial No. 639,332. Published June 2, 1953. Class 46.

579,455. Textile Fabrics in the Piece, Composed of Rayon, Cotton, Linen, Wool, Nylon, and Silk Fibers. Tanbro Fabrics Corp., New York, N. Y.
Filed Dec. 11, 1952, Serial No. 639,346. Published June 9, 1953. Class 42.

579,456. Canned Tomatoes, Tomato Paste, Manufactured Macaroni, Cheese. Jean Bari & Co., Inc. Import-Export, Cliffside Park, N. J.
Filed Dec. 13, 1952, Serial No. 639,406. Published June 2, 1953. Class 46.

579,457. Paint and Varnish Brushes. Baltimore Brushes, Inc., Boston, Mass.
Filed Dec. 18, 1952, Serial No. 639,687. Published June 9, 1953. Class 29.

579,458. Fertilizer. The Stadler Fertilizer Company, Cleveland, Ohio.
Filed Dec. 18, 1952, Serial No. 639,725. Published June 9, 1953. Class 10.

579,459. Roller Skates and Parts Thereof. The Cleveland Skate Co., Inc., Cleveland, Ohio.
Filed Dec. 19, 1952, Serial No. 639,741. Published June 2, 1953. Class 22.

579,460. Automobiles and Automobile Bodies. Hudson Motor Car Company, Detroit, Mich.
Filed Dec. 20, 1952, Serial No. 639,823. Published June 9, 1953. Class 19.

579,461. Cotton Braided Rugs. Topton Rug Manufacturing Co., Mertztown, Pa., and New York, N. Y.
Filed Dec. 20, 1952, Serial No. 639,858. Published June 2, 1953. Class 42.

579,462. Woven Table Cloths and Woven Table Napkins. Ellison & Spring, Inc., New York, N. Y.
Filed Dec. 30, 1952, Serial No. 640,149. Published June 9, 1953. Class 42.

579,463. Knitted Fabrics Made of Cotton, Wool, Silk, and Synthetic Fibers. Barbet Mills, Inc., Lexington, N. C.
Filed Jan. 2, 1953, Serial No. 640,253. Published June 9, 1953. Class 42.

579,464. Babies' Crib Blankets. Stern Brothers, New York, N. Y.
Filed Jan. 2, 1953, Serial No. 640,311. Published June 9, 1953. Class 42.

579,465. Textile Piece Goods Made of Cotton, Nylon, Rayon, Silk, and Wool. The Harodite Finishing Company, Inc., North Dighton, Mass.
Filed Jan. 6, 1953, Serial No. 640,397. Published June 9, 1953. Class 42.

579,466. Art Needlework Yarns. Bernhard Ulmann Co. Inc., Long Island City, N. Y.
Filed Jan. 9, 1953, Serial No. 640,591. Published June 9, 1953. Class 43.

579,467. Playing Cards. The Wild-Q Company, Kansas City, Mo.
Filed Feb. 2, 1953, Serial No. 641,651. Published June 2, 1953. Class 22.

579,468. Wiping Cloths for Soiled, Dirty, Greasy or Wet Surfaces. General Jobbing Co. Inc., Oklahoma City, Okla.
Filed Feb. 5, 1953, Serial No. 641,775. Published June 9, 1953. Class 29.

579,469. Cookies. Albers Super Markets, Inc., Cincinnati, Ohio.
Filed Feb. 6, 1953, Serial No. 641,825. Published June 2, 1953. Class 46.

579,470. Fish Bait Sold in Bulk and Composed of Edible Substance for Fish and Capable of Being Molded Into Pellet Form for Application to the Fish Hook. Bee'-Jay Bait Co., North Kansas City, Mo.
Filed Feb. 9, 1953, Serial No. 641,901. Published June 2, 1953. Class 22.

579,471. Candy. Zion Industries, Inc., Zion, Ill.
Filed Feb. 9, 1953, Serial No. 642,005. Published June 2, 1953. Class 46.

579,472. Row Boats, Outboard Power Boats, and Outboard Cruisers Made of Aluminum. Ward Brothers Manufacturing Company, Monticello, Ark.
Filed Feb. 11, 1953, Serial No. 642,104. Published June 9, 1953. Class 19.

579,473. Dog and Cat Food. Willard H. Smith, doing business as Deep Run Packing Company, Dublin, Pa.
Filed Feb. 12, 1953, Serial No. 642,173. Published June 2, 1953. Class 46.

579,474. Automobile Seat Covers. Goldblatt Bros. Inc., Chicago, Ill.
Filed Feb. 13, 1953, Serial No. 642,219. Published June 9, 1953. Class 19.

579,475. Men's, Women's, and Children's Skating Shoes With Roller Skates Attached and Skating Shoes With Ice Skates Attached. Shoe Corporation of America, Columbus, Ohio.
Filed Feb. 13, 1953, Serial No. 642,244. Published June 9, 1953. Class 22.

579,476. Automobile Anti-Skid Stabilizer. Dieterich Products Corporation, Michigan City, Ind.
Filed Feb. 24, 1953, Serial No. 642,625. Published June 9, 1953. Class 19.

579,477. Fresh Vegetables. Schuman-Anderholt Co., Holtville, Calif.
Filed Mar. 2, 1953, Serial No. 642,997. Published June 9, 1953. Class 46.

579,478. Artists' Paint Brushes. United Brush Manufactories, New York, N. Y.
Filed Mar. 2, 1953, Serial No. 643,007. Published June 2, 1953. Class 29.

579,479. Table Salt. Church & Dwight Co., Inc., New York and Syracuse, N. Y.
Filed Mar. 3, 1953, Serial No. 643,029. Published June 9, 1953. Class 46.

579,480. Golf Putters. Putt-Master, Phoenix, Ariz.
Filed Mar. 9, 1953, Serial No. 643,371. Published June 9, 1953. Class 22.

579,481. Chili Pepper. Chili Products Corporation Ltd., Los Angeles, Calif.
Filed Mar. 16, 1953, Serial No. 643,646. Published June 2, 1953. Class 46.

579,482. Chili Pepper. Chili Products Corporation Ltd., Los Angeles, Calif.
Filed Mar. 16, 1953, Serial No. 643,648. Published June 2, 1953. Class 46.

579,483. Chili Powder. Chili Products Corporation, Ltd., Los Angeles, Calif.
Filed Mar. 16, 1953, Serial No. 643,649. Published June 2, 1953. Class 46.

579,484. Motor Cars. Ford Motor Company, Dearborn, Mich.
Filed Feb. 25, 1953, Serial No. 643,873. Published June 2, 1953. Class 19.

579,485. Automobiles. General Motors Corporation, Detroit, Mich.
Filed Mar. 27, 1953, Serial No. 644,297. Published June 9, 1953. Class 19.

Service Marks

579,486. Advertising the Goods and Services of Others by Means of Radio Broadcast Programs, Etc. Robert J. Dean, doing business as Radio-Games Service, New York, N. Y.
Filed Nov. 14, 1950, Serial No. 606,370. Published June 9, 1953. Class 101.

579,487. Broadcasting of Radio and Television Programs. Hall Broadcasting and Television Company, Inc., doing business as Palmetto Broadcasting System, and/or Palmetto Network, Anderson, S. C.
Filed Dec. 22, 1950, Serial No. 608,000. Published June 9, 1953. Class 104.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

579,488. (Class 46. Foods and Ingredients of Foods.) Aceites Bau, S. A., Madrid, Spain. Original filed, act of 1946, Principal Register, July 20, 1948; amended to application, Supplemental Register, Jan. 23, 1953, Serial No. 561,707.



The lining shown on the drawing corresponds to actual lines shown on the mark. Applicant claims ownership of Spanish Registration No. 24,740, dated Dec. 21, 1915, and United States Registration No. 134,342.
For Olive Oil.

579,489. (Class 3. Baggage, Animal Equipments, Portfolios, and Pocketbooks.) The Everite Manufacturing Company, New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 18, 1948; amended to application, Supplemental Register, Nov. 29, 1952, Serial No. 568,999.

EVERITE

For Overnight Cases, Week-End Cases, Wardrobe Trunks, Hat and Shoe Cases, Two-Suiter and Three-Suiter Cases, Pullman Cases, Jackknife Cases, Overseas Cases, Train Cases, Companion Cases, Men's Traveling Bags, Gladstone Club Bags Made of Leather, Canvas, or Plastic Materials.
Claims use since Mar. 1, 1944.

579,490. (Class 21. Electrical Apparatus, Machines, and Supplies.) Continental Copper & Steel Industries, Inc., Perth Amboy, N. J. Original filed, act of 1946, Principal Register, June 28, 1949; amended to application, Supplemental Register, Sept. 27, 1951, Serial No. 581,179.

Welin CIRCLE ⊗

For Television Antennae.
Claims use since Apr. 20, 1949.

579,491. (Class 39. Clothing.) J. Weinig & Son, New York, N. Y. Original filed, act of 1946, Principal Register, June 28, 1949; amended to application, Supplemental Register, Jan. 10, 1952, Serial No. 581,225.

"HEATHER MINK"

The applicant disclaims the word "Mink" apart from the combination shown.
For Stoles, Scarves, Jackets, Capes, and Coats Made Wholly or in Substantial Part of Mink.
Claims use since Mar. 1, 1949.

579,492. (Class 46. Foods and Ingredients of Foods.) Davis Bros. Fisheries Co., Inc., Gloucester, Mass. Original filed, act of 1946, Principal Register, Nov. 23, 1949; amended to application, Supplemental Register, Mar. 21, 1952, Serial No. 588,202.

FRIDAY BURGERS

For Canned Fish in the Form of Patties.
Claims use since Aug. 30, 1949.

579,493. (Class 26. Measuring and Scientific Appliances.) Mack's Industries, Incorporated, Waterloo, Iowa. Original filed, act of 1946, Principal Register, July 8, 1950; amended to application, Supplemental Register, Dec. 20, 1952, Serial No. 600,386.

Rol-fold

For Machines for Applying and Binding Tape to the Edges of Photographic Transparency Slides.
Claims use since June 8, 1950.

579,494. (Class 26. Measuring and Scientific Appliances.) Leeds Travelwear Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 19, 1950; amended to application, Supplemental Register, Feb. 13, 1953, Serial No. 602,460.

Camr-Pak

For Carrying Cases or Bags for Cameras, Films, and Photographic Supplies.
Claims use since August 1948.

579,495. (Class 46. Foods and Ingredients of Foods.) Albert P. Koentopp, doing business under the name of Albert P. Koentopp and Koentopp Home Ranch, Santa Ana, Calif. Original filed, act of 1946, Principal Register, Sept. 18, 1950; amended to application, Supplemental Register, May 26, 1953, Serial No. 603,690.

GOLDEN NECTAR

For Fresh Citrus Fruit.
Claims use since May 23, 1950.

579,496. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Hy-Pro Tool Company, New Bedford, Mass. Original filed, act of 1946, Principal Register, Oct. 5, 1950; amended to application, Supplemental Register, Apr. 29, 1952, Serial No. 604,478.

The LONG LIFE BIT with a PERFECT FIT

For Bits for Hand and Machine Screwdrivers.
Claims use since July 2, 1950.

579,497. (Class 5. Adhesives.) United States Paste Company, Philadelphia, Pa. Original filed, act of 1946, Principal Register, Oct. 9, 1950; amended to application, Supplemental Register, July 28, 1952, Serial No. 604,672.

PASTE SIZE

For Sizing for Wall Paper Paste.
Claims use since June 15, 1950.

579,498. (Class 39. Clothing.) Carolina Handkerchief Company, Inc., West End, N. C. Original filed, act of 1946, Principal Register, Nov. 6, 1950; amended to application, Supplemental Register, Mar. 6, 1953, Serial No. 605,943.

BIG BOY's

For Handkerchiefs.
Claims use since Oct. 30, 1950.

579,499. (Class 39. Clothing.) Acclaim Hosiery Mills, Inc., High Point, N. C. Original filed, act of 1946, Principal Register, Mar. 14, 1951; amended to application, Supplemental Register, Dec. 24, 1952, Serial No. 611,253.

Pink Perfection

For Ladies' Hosiery.
Claims use since Jan. 20, 1947.

579,500. (Class 46. Foods and Ingredients of Foods.) Redi-Food Co., New York, N. Y. Filed Apr. 19, 1951, Serial No. 612,871.



No claim is made to the words "Shrimp in the Basket" apart from the mark as shown.
For Cleaned and Frosen Uncooked Shrimps.
Claims use since November 1949.

579,501. (Class 26. Measuring and Scientific Appliances.) Overseas Finance & Trading Company Inc., San Francisco, Calif. Original filed, act of 1946, Principal Register, Sept. 29, 1951; amended to application, Supplemental Register, Feb. 16, 1953, Serial No. 619,407.

VERTEXOMETER

For Instruments for Measuring the Radii of Curvature, Dimensions, Focal Length, and Other Related Characteristics of Lenses.
Claims use since Nov. 17, 1949.

579,502. (Class 46. Foods and Ingredients of Foods.) Wardley Products Co., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 15, 1951; amended to application, Supplemental Register, June 8, 1953, Serial No. 621,292.

WARDLEY'S

For Food for Tropical and Gold Fish.
Claims use since Oct. 30, 1951.

579,503. (Class 46. Foods and Ingredients of Foods.) Harold W. Powers, doing business as Carew & Powers Co., Boston, Mass. Filed Jan. 11, 1952, Serial No. 623,476.

POWERS'

For Candy.
Claims use since July 25, 1949.

579,504. (Class 52. Detergents and Soaps.) Rose Kallaian Rug Co., Kansas City, Mo. Original filed, act of 1946, Principal Register, Jan. 12, 1952; amended to application, Supplemental Register, Nov. 15, 1952, Serial No. 623,514.



The drawing is lined for the colors blue and pink. The words "Cleaning Fluid" are disclaimed.
For Cleaning Fluid for Rugs, Carpets, Draperies, Upholstered Articles, and Wearing Apparel.
Claims use since Nov. 15, 1951.

579,505. (Class 37. Paper and Stationery.) Markwell Manufacturing Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 31, 1952; amended to application, Supplemental Register, May 20, 1953, Serial No. 624,345.

Paint-an-Brush ALL-IN-ONE

For Crayons Used for Marking on Metals, Paper, Wood, Textiles, Glass, Rubber, Chinaware, and Plastics.
Claims use since Dec. 21, 1951.

579,506. (Class 39. Clothing.) Bryan Full Fashioned Mills, Chattanooga, Tenn., now by merger and change of name, Beautiful Bryans, Inc., Chattanooga, Tenn., a corporation of Tennessee. Original filed, act of 1946, Principal Register, Feb. 2, 1952; amended to application, Supplemental Register, July 1, 1953, Serial No. 624,445.

Your Leg Has A Figure Too

For Hosiery for Women and Girls.
Claims use since Jan. 3, 1952.

579,507. (Class 16. Protective and Decorative Coatings.) Sasco Sales, Inc., Cleveland, Ohio. Original filed, act of 1946, Principal Register, Feb. 23, 1952; amended to application, Supplemental Register, Apr. 3, 1953, Serial No. 625,438.

NU-PLATE

For Paint.
Claims use since Feb. 8, 1952.

579,508. (Class 22. Games, Toys, and Sporting Goods.) Athletic Products Company, Inc., South Bend, Ind., assignee of Athletic Products Company. Original filed, act of 1946, Principal Register, Feb. 29, 1952; amended to application, Supplemental Register, June 25, 1953, Serial No. 625,709.

SHOOK

For Athletic Knee Brace.
Claims use since Oct. 25, 1951.

579,509. (Class 39. Clothing.) Betmar Hats, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, May 17, 1952; amended to application, Supplemental Register, Apr. 28, 1953, Serial No. 629,833.

Velour Luisant

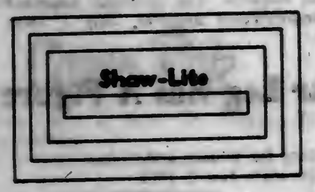
For Hats and Hat Bodies.
Claims use since Mar. 15, 1951.

579,510. (Class 3. Baggage, Animal Equipments, Portfolios, and Pocketbooks.) Aristocrat Leather Products, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, July 1, 1952; amended to application, Supplemental Register, June 23, 1953, Serial No. 632,010.

SAFETY SEAL

For Wallets and Billfolds.
Claims use since June 16, 1952.

579,511. (Class 26. Measuring and Scientific Appliances.) Sam Shaw, doing business as S. A. Shaw Co., New York, N. Y. Original filed, act of 1946, Principal Register, July 28, 1952; amended to application, Supplemental Register, Mar. 9, 1953, Serial No. 633,172.



For Electronic Flash Units for Use With Cameras, and Parts of Said Units, and Electronic Flash Tubes.
Claims use since Jan. 19, 1952.

579,512. (Class 38. Prints and Publications.) The Instruments Publishing Company, Inc., Pittsburgh, Pa. Original filed, act of 1946, Principal Register, Aug. 8, 1952; amended to application, Supplemental Register, June 16, 1953, Serial No. 633,615.

Instrument Manufacturing

For Publication Issued Bimonthly.
Claims use since Feb. 29, 1952.

579,513. (Class 39. Clothing.) David Mayers, doing business as Selecto Tie Company, Baltimore, Md. Original filed, act of 1946, Principal Register, Aug. 18, 1952; amended to application, Supplemental Register, Feb. 20, 1953, Serial No. 634,103.

Selecto

For Men's Neckties and Belts.
Claims use since July 1, 1951.

579,514. (Class 39. Clothing.) A. Sagner's Son, Baltimore, Md. Original filed, act of 1946, Principal Register, Sept. 5, 1952; amended to application, Supplemental Register, June 17, 1953, Serial No. 634,923.

WEST INDIES WEAVE

For Men's Suits, Coats, Slacks, Trousers, Topcoats, Sport Coats, Neckties, Sport, Dress, and Work Shirts; Women's Suits, Coats, Slacks, Jackets, and Skirts.
Claims use since August 1951.

579,515. (Class 38. Prints and Publications.) Chicagoland Golf, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Oct. 17, 1952; amended to application, Supplemental Register, June 10, 1953, Serial No. 636,770.

Chicagoland GOLF

For Periodical Magazine.
Claims use since June 1, 1952.

579,516. (Class 46. Foods and Ingredients of Foods.) Frank Markowitz, New York, N. Y. Filed Feb. 24, 1953, Serial No. 642,675.

Harvey

Applicant claims ownership of Registration No. 404,334.
For Fresh Tomatoes.
Claims use since Dec. 1, 1941.

579,517. (Class 39. Clothing.) Jacques Heim, Paris, France. Filed Feb. 26, 1953, Serial No. 642,816.

HEIM
Jeunes Filles

Applicant claims ownership of French Registration No. 360,101, dated Aug. 7, 1947.
For Ladies', Misses', and Children's Hosiery.
Claims use since Aug. 1, 1944 and since Aug. 7, 1944, in commerce between foreign nations and the United States.

579,518. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) D. B. Fuller & Co., Inc., New York, N. Y. Filed Mar. 20, 1953, Serial No. 643,950.

WRINKLECRISP

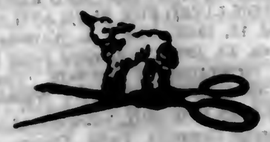
Applicant claims ownership of Registration No. 545,014.
For Textile Fabrics in the Piece, of Cotton, Rayon, Protein Fibres, and Mixtures Thereof.
Claims use since Jan. 28, 1952.

579,519. (Class 19. Vehicles.) Borum Boat Company, Inc., Jacksonville, Fla. Filed Mar. 24, 1953, Serial No. 644,097.

Speedicraft

For Speed Boats, Motor Cruisers, Yachts, and Motor-Propelled Racing Craft of Less Than 50 Tons Net Weight.
Claims use since February 1951.

579,520. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) The Warren Woolen Co., Stafford Springs, Conn. Filed Apr. 1, 1953, Serial No. 644,582.



THE TOUCH TELLS

For Woolen Piece Goods.
Claims use since Mar. 3, 1952.

Service Marks

579,521. (Class 100. Miscellaneous.) Hall Laboratories, Incorporated, Pittsburgh, Pa. Original filed, act of 1946, Principal Register, Mar. 18, 1950; amended to application, Supplemental Register, Nov. 14, 1951, Serial No. 594,217.

HALL *plant-wide* WATER SERVICE

No claim is made to the words "Plant-Wide Water Service" apart from the mark as shown in the drawing.
For Chemical Engineering Services—Namely, Making Surveys and Inspections of Industrial and Public Utility Plants, Particularly in Connection With Treatment, Use, and Disposal of Water for Boiler, Process, and General Industrial Purposes; Analyzing Samples of Waters and Deposits, Evaluating Conditions and Procedures, and Recommending Improved Engineering Practices Based Upon the Foregoing Surveys, Inspections, and Analyses.
Claims use since February 1950.

579,522. (Class 106. Material Treatment.) Rex Hosiery Finishers, Inc., Philadelphia, Pa. Original filed, act of 1946, Principal Register, Nov. 8, 1950; amended to application, Supplemental Register, May 25, 1953, Serial No. 606,085.

The finer the finish...
THE FINER THE PRODUCT

For Finishing Hosiery by Boarding, Preboarding, Dyeing, and Shrinking.
Claims use since Aug. 25, 1947.

TRADE-MARK REGISTRATIONS RENEWED

40,078. REPRESENTATION OF MAPLE LEAF. Registered Apr. 7, 1903. Shurly & Dietrich. Re-renewed Apr. 7, 1953, to Shurly-Dietrich-Atkins Company Limited, Galt, Ontario, Canada, a corporation organized under the laws of the Province of Ontario. Saws. Class 23.

40,516. ANVIL. Registered June 9, 1903. Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey. Re-renewed June 9, 1953. Drawing-Paper. Class 37.

40,517. NORMAL. Registered June 9, 1903. Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey. Re-renewed June 9, 1953. Drawing-Paper. Class 37.

40,518. ECONOMY. Registered June 9, 1903. Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey. Re-renewed June 9, 1953. Drawing-Paper. Class 37.

40,519. SIMPLEX. Registered June 9, 1903. Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey. Re-renewed June 9, 1953. Drawing-Paper. Class 37.

40,522. LOTUS. Registered June 9, 1903. Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey. Re-renewed June 9, 1953. Tracing-Paper. Class 37.

40,523. HELIOS. Registered June 9, 1903. Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey. Re-renewed June 9, 1953. Blue-Print Paper. Class 37.

40,667. K & E. Registered June 30, 1903. Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey. Re-renewed June 30, 1953. All Kinds of Papers, Such as Drawing-Paper, Tracing-Paper, Profile-Paper, Etc. Class 37.

87,823. "BLUE MOON" AND DRAWING LINED FOR BLUE. Registered Aug. 6, 1912. Joseph Tetlow, Philadelphia, Pa. Re-renewed Aug. 6, 1952, to Grace Tetlow Buchanan, Blue Bell, Pa. Perfume. Class 51.

90,234. GIANT. Registered Feb. 11, 1913. Northrup, King & Co., Minneapolis, Minn., a corporation of Minnesota. Re-renewed Feb. 11, 1953. Fodder-Corn Seeds. Class 1.

91,087. HALLMARK. Registered Apr. 15, 1913. Hall, Hartwell & Co., Troy, N. Y. Re-renewed Apr. 15, 1953, to Hallmark Shirt Co. Inc., New York, N. Y., a corporation of New York. Collars, Cuffs, and Dress, Negligée, and Work Shirts. Class 39.

91,309. BARCO. Registered Apr. 29, 1913. Barco Brass & Joint Co., Chicago, Ill. Re-renewed Apr. 29, 1953, to Francis N. Bard, Barrington, Ill. Pipe Joints and Connections and Flexible Pipe-Joints and Cut-Out Valves. Class 13.

92,323. DISCO. Registered July 1, 1913. Dakota Improved Seed Company, Mitchell, S. Dak., a corporation of South Dakota. Re-renewed July 1, 1953. Flower, Vegetable, and Cereal Seeds. Class 1.

93,077. "COLUMBIA RIVER" ETC. AND DESIGN. Registered Aug. 19, 1913. Columbia River Packers Association. Re-renewed Aug. 19, 1953, to Columbia River Packers Association, Inc., Astoria, Oreg., a corporation of Oregon. Canned Salmon. Class 46.

93,078. "WHITE STAR" AND DESIGN. Registered Aug. 19, 1913. Columbia River Packers Association. Re-renewed Aug. 19, 1953, to Columbia River Packers Association, Inc., Astoria, Oreg., a corporation of Oregon. Canned Salmon. Class 46.

93,448. POLYPHASE. Registered Sept. 16, 1913. Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey. Re-renewed Sept. 16, 1953. Slide-Rules. Class 26.

93,766. "SW" AND DESIGN. Registered Oct. 14, 1913. Smith & Wesson. Re-renewed Oct. 14, 1953, to Smith and Wesson, Inc., Springfield, Mass., a corporation of Massachusetts. Revolvers. Class 9.

93,767. S & W. Registered Oct. 14, 1913. Smith & Wesson. Re-renewed Oct. 14, 1953, to Smith and Wesson, Inc., Springfield, Mass., a corporation of Massachusetts. Revolvers. Class 9.

94,023. CHURNGOLD. Registered Oct. 28, 1913. The Ohio Butterine Co. Re-renewed Oct. 28, 1953, to The Churngold Corporation, Cincinnati, Ohio, a corporation of Ohio. Oleomargarin. Class 46.

298,441. "F. BERTOLLI" AND DRAWING. Registered Oct. 25, 1932. Francesco Bertolli S. P. A., Lucca, Italy, a corporation organized under the laws of Italy. Renewed Oct. 25, 1952. Olive Oil. Class 46.

301,175. "GEORGES BANK" AND DESIGN. Registered Feb. 21, 1933. John Mantia & Sons. Renewed Feb. 21, 1953, to John Mantia & Sons Co., Inc., Boston, Mass., a corporation of Massachusetts. Fresh Fish Fillets. Class 46.

301,551. "SIEMENS" ETC. AND DESIGN. Registered Mar. 7, 1933. Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Renewed Mar. 7, 1953, to Siemens-Schuckertwerke Aktiengesellschaft, Erlangen and Berlin-Siemensstadt, Germany, a corporation organized under the laws of Germany. Electrical Machines—Namely, Dynamos, Motors, Transformers, Etc. Class 21.

301,569. I-TAL-KNIT. Registered Mar. 7, 1933. Chester H. Roth Co., Inc., New York, N. Y., a corporation of New York. Renewed Mar. 7, 1953. Hosiery. Class 39.

303,322. XL. Registered May 23, 1933. Excelsior Leather Washer Manufacturing Co., Rockford, Ill., a corporation of Illinois. Renewed May 23, 1953. Cup Leathers, Valve and Plunger Leathers, Flange Leathers, Etc. Class 35.

303,342. CHERVEL. Registered May 23, 1933. Archer Rubber Company, Milford, Mass., a corporation of Massachusetts. Renewed May 23, 1953. Rubberized Fabrics. Class 42.

303,505. NAPHTONE. Registered May 30, 1933. Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Renewed May 30, 1953, to Oronite Chemical Company, San Francisco, Calif., a corporation of Delaware. Naphthenic Acids and Their Derivatives. Class 6.

303,722. NAPHTONE. Registered June 6, 1933. Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Renewed June 6, 1953, to Oronite Chemical Company, San Francisco, Calif., a corporation of Delaware. Paint Driers. Class 16.

303,810. REALTEX. Registered June 6, 1933. M. Ewing Fox Co., Inc., New York, N. Y., a corporation of New York. Renewed June 6, 1953. Water Paint in Dry Form. Class 16.

303,992. CORVIC. Registered June 13, 1933. Chase Brass & Copper Co. Incorporated. Renewed June 13, 1953, to Chase Brass & Copper Co. Incorporated, Waterbury, Conn., a corporation of Connecticut. Metal Pipe. Class 13.

303,994. OLYMPIC. Registered June 13, 1933. Chase Brass & Copper Co. Incorporated. Renewed June 13, 1953, to Chase Brass & Copper Co. Incorporated, Waterbury, Conn., a corporation of Connecticut. Metal Pipe. Class 13.

303,995. CORVIC. Registered June 13, 1933. Chase Brass & Copper Co. Incorporated. Renewed June 13, 1953, to Chase Brass & Copper Co. Incorporated, Waterbury, Conn., a corporation of Connecticut. Angles, Wire, and Sheet-Metal. Class 14.

304,115. BURTON'S. Registered June 20, 1933. W. Burton & Co., Inc. Renewed June 20, 1953, to Fred Fear & Co., Brooklyn, N. Y., a corporation of New York. Flavoring Extracts and Imitations Thereof for Food Purposes and Food Flavoring Syrups for Table and Other Uses. Class 46.

304,538. OLYMPIC. Registered July 11, 1933. Chase Brass & Copper Co. Incorporated. Renewed July 11, 1953, to Chase Brass & Copper Co. Incorporated, Waterbury, Conn., a corporation of Connecticut. Sheet-Metal and Wire. Class 14.

304,894. "SCHUTZMARKE" AND DESIGN. Registered July 18, 1933. Gabriel u. Jos. Sedlmayr Spaten-Franziskaner-Leistbräu A.-G. München. Renewed July 18, 1953, to Gabriel Sedlmayr Spaten-Franziskanerbräu Aktiengesellschaft München, Munich, Germany, a corporation organized under the laws of the Federal Republic of Germany. Malt Beverage With Not More Than the Legal Alcoholic Content. Class 48.

305,383. "DR. LYON'S" ETC. AND REPRESENTATION OF CARTON LINED FOR BLUE AND SILVER. Registered Aug. 15, 1933. The K. L. Watkins Company. Renewed Aug. 15, 1953, to Sterling Drug Inc., New York, N. Y., a corporation of Delaware. Dentifrices, Tooth Powder, Astringents, and Mouth Washes. Class 51.

305,396. DITES-MOI OUI. Registered Aug. 15, 1933. Henri Bendel Company, Paris, France. Renewed Aug. 15, 1953, to Bourjois, Inc., New York, N. Y., a corporation of New York. Perfumes and Toilet Waters. Class 51.

305,452. O.K.BRAND. Registered Aug. 15, 1933. Cloquet Creamery, Cloquet, Minn., a firm. Renewed Aug. 15, 1953. Ice Cream. Class 46.

305,494. "SEEZ O_3" AND UNDERLINE. Registered Aug. 15, 1933. The Hays Corporation, Michigan City, Ind., a corporation of Indiana. Renewed Aug. 15, 1953. Oxygen Absorbers for Use With Gas Analyzing Apparatus. Class 6.

305,592. BOND. Registered Aug. 22, 1933. Bond Stores, Incorporated. Renewed Aug. 22, 1953, to Bond Stores, Incorporated, New York, N. Y., a corporation of Maryland. Men's and Boys' Suits, Trousers, Coats, Vests, Etc. Class 39.

305,641. MODERN ARISTOCRATS. Registered Aug. 22, 1933. Weyenberg Shoe Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin. Renewed Aug. 22, 1953. Leather Shoes. Class 39.

305,646. "M G" AND DESIGN. Registered Aug. 22, 1933. The M. G. Car Company Limited, Abingdon, England, a corporation organized under the laws of Great Britain. Renewed Aug. 22, 1953. Automobiles and Structural Parts Thereof. Class 19.

305,865. BRIGHT CREST. Registered Aug. 29, 1933. Wm. C. Ferguson, Stockton, Calif. Renewed Aug. 29, 1953, to Cochran Co., Inc., Tracy, Calif., a corporation of California. Fresh Vegetables. Class 46.

306,401. POWDER PUFF. Registered Sept. 19, 1933. Dumari Textile Co., Inc., New York, N. Y., a corporation of New York. Renewed Sept. 19, 1953. Fabrics in the Piece Made of Cotton, Rayon, Silk, Wool, and/or Combinations of the Same, Powder Puffs Not Being Made From the Materials Sold Under This Trade-Mark. Class 42.

307,267. LUXALLOY. Registered Oct. 24, 1933. American Platinum Works. Renewed Oct. 24, 1953, to Baker & Company, Inc., Newark, N. J., a corporation of New Jersey. Dental Alloy in Castings and Sheets. Class 44.

307,606. "D" AND DESIGN. Registered Oct. 31, 1933. Dorset Woolen Company, Providence, R. I. Renewed Oct. 31, 1953, to Dorset Woolen Company, Slocum, R. I., a corporation of Rhode Island. Woven Textile Fabrics Made of Cotton or Wool. Class 42.

307,669. ALAHAM. Registered Oct. 31, 1933. Modern Food Process Company. Renewed Oct. 31, 1953, to Oscar Mayer & Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania. Ham. Class 46.

307,671. "LOESER'S CROCUS" AND DESIGN. Registered Oct. 31, 1933. Frederick Loeser & Co., Inc. Renewed Oct. 31, 1953, to Namm-Loeser's, Inc., Brooklyn, N. Y., a corporation of New York. Hosiery. Class 39.

307,703. AIRWAY. Registered Oct. 31, 1933. Fort Pitt Bedding Company, Pittsburgh, Pa. Renewed Oct. 31, 1953, to The Englander Company, Inc., Chicago, Ill., a corporation of Delaware. Mattresses. Class 32.

307,758. "ROMANOFF" ETC. AND DESIGN. Registered Oct. 31, 1933. Romanoff Caviar Company, New York, N. Y., a corporation of New York. Renewed Oct. 31, 1953. Imported Russian Sturgeon Caviar. Class 46.

307,947. SEVENTEEN. Registered Nov. 14, 1933. Maison Jeurelle, Inc., Chicago, Ill. Renewed Nov. 14, 1953, to SEVENTEEN, Rye, N. Y., a partnership. Cream Rouge, Eye Shadow, Rouge, Cleansing Cream, Etc. Class 51.

307,977. EXLITE. Registered Nov. 14, 1933. Republic Steel Corporation, Youngstown, Ohio. Renewed Nov. 14, 1953, to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey. Tin Mill Black Plate and Coke Tin Plate. Class 14.

307,978. NEW ORLEANS STATES. Registered Nov. 14, 1933. The Times-Picayune Publishing Company, New Orleans, La., a corporation of Louisiana. Renewed Nov. 14, 1953. Newspaper. Class 38.

307,998. "SAVONS BATHETTES" AND DESIGN LINED FOR BLACK, RED, PURPLE, BLUE, AND GREEN. Registered Nov. 14, 1933. Elizabeth Arden, Inc. Renewed Nov. 14, 1953, to Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Soap. Class 52.

308,069. LOG LOG DECITRIG. Registered Nov. 21, 1933. Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey. Renewed Nov. 21, 1953. Slide Rules. Class 26.

308,158. ULTRACHROME. Registered Nov. 21, 1933. Universal Camera Corporation. Renewed Nov. 21, 1953, to Universal Camera Corporation, New York, N. Y., a corporation of Delaware. Photographic Film. Class 26.

308,159. UNIVEX. Registered Nov. 21, 1933. Universal Camera Corporation. Renewed Nov. 21, 1953, to Universal Camera Corporation, New York, N. Y., a corporation of Delaware. Photographic Camera and Films. Class 26.

308,169. ST. LOUIS DAIRY CO. Registered Nov. 21, 1933. St. Louis Dairy Company, St. Louis, Mo., a corporation of Delaware. Renewed Nov. 21, 1953. Dairy Products—Namely, Milk, Either Whole or Skimmed; Buttermilk, Pasteurised Milk, Etc. Class 46.

308,185. KOROMEX. Registered Nov. 21, 1933. Holland-Rantos Company, Inc., New York, N. Y., a corporation of New York. Renewed Nov. 21, 1953. Prophylactic Rubber Articles for the Prevention of Contagious Diseases, Etc. Class 44.

308,264. REPRESENTATION OF ROPE OR CABLE LINED FOR RED. Registered Nov. 28, 1933. Plymouth Cordage Company, Plymouth and North Plymouth, Mass. Renewed Nov. 28, 1953, to Plymouth Cordage Company, Plymouth, Mass., a corporation of Massachusetts. Hard Fibre Rope. Class 7.

308,267. REPRESENTATION OF ROPE OR CABLE LINED FOR GREEN. Registered Nov. 28, 1933. Plymouth Cordage Company, Plymouth and North Plymouth, Mass. Renewed Nov. 28, 1953, to Plymouth Cordage Company, Plymouth, Mass., a corporation of Massachusetts. Hard Fibre Rope. Class 7.

308,608. REPRESENTATION OF MAN'S SOCK LINED FOR GOLD. Registered Dec. 12, 1933. Great American Knitting Mills, Inc., Bechtelsville, Pa., a corporation of Delaware. Renewed Dec. 12, 1953. Hosiery. Class 39.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

91,464. BOINO. Registered May 6, 1913. Davies & Meacham, Cleveland, Ohio. Dry and Mixed Paints, Etc. Class 16. Amended as follows: In the statement, the description of goods with the exception of "mixed paints" is deleted.

193,249. EATMOR. Registered Dec. 23, 1924. American Cranberry Exchange, Incorporated, New York, N. Y. Cranberry Sauce, Cranberry Jelly. Class 46. Amended as follows: In the certificate, lines 3 and 16; in the heading and signature to the statement; and in line 2 of the statement, after "Incorporated," *now by change of name Eatmor Cranberries, Inc.*, is inserted.

304,294. LEEDALL. Registered June 27, 1933. Davega-City Radio Stores, Inc., New York, N. Y. Golf Balls. Class 22. Corrected as follows: In the certificate, lines 2 and 16; in the heading to the statement; in line 2 of the statement; and in the printed signature, "Stores" should be deleted.

304,648. FLEETWING. Registered July 11, 1933. Davega-City Radio Stores, Inc., New York, N. Y. Roller Skates and Handball Gloves. Class 22. Corrected as follows: In the certificate, lines 2 and 16; in the heading to the statement; in line 2 of the statement; and in the printed signature, "Stores" should be deleted.

574,986. GARDEN MAID. Registered May 26, 1953. Advance Glove Manufacturing Company, Detroit, Mich. Woven Fabric Gloves. Class 39. Corrected as follows: In the certificate, lines 3 and 13; in the heading and signature to the statement; and in line 1 of the statement, "Company" should be Co.

574,989. "GLOVSAVER" AND DESIGN. Registered May 26, 1953. Advance Glove Manufacturing Company, Detroit, Mich. Palm and Finger Stall Protective Covers for Gloves. Class 39. Corrected as follows: In the certificate, lines 3 and 13; in the heading and signature to the statement; and in line 1 of the statement, "Company" should be Co.

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

90,963. "HELMET BRAND" AND DESIGN. Registered Apr. 8, 1913. Renewed Apr. 8, 1933. Re-renewed Apr. 8, 1953. George Brunssen Co., New York, N. Y. Uniform Hats, Caps, Etc. Class 39. New certificate under section 7(c) issued Sept. 1, 1953, to George Brunssen Company, Incorporated, New York, N. Y., a corporation of New York.

333,381. LIBERTY QUEEN. Registered Mar. 17, 1936. Liberty Mills, San Antonio, Tex. Wheat Flour. Class 46. New certificate under section 7(c) issued Sept. 1, 1953, to Burrus Mills, Incorporated, Dallas, Tex., a corporation of Delaware.

410,474. DESIGN—SILVER CROSS. Registered Nov. 28, 1944. Chas. B. Silver & Son, Havre de Grace, Md. Canned Foods—Namely, Vegetables and Vegetable Juices. Class 46. New certificate under section 7(c) issued Sept. 1, 1953, to Chas. B. Silver & Son, Havre de Grace, Md.

567,794. WHITE CREST. Registered Dec. 9, 1952. Queen Charlotte Canners, Limited, Massett, Queen Charlotte Islands, British Columbia, Canada. Fresh, Frozen, and Canned Shell Fish, Etc. Class 46. New certificate under section 7(c) issued Sept. 1, 1953, to Fishermen's Co-Operative Federation, Vancouver, British Columbia, Canada, a cooperative association of British Columbia.

567,796. SEA MOUNT. Registered Dec. 9, 1952. Queen Charlotte Canners, Limited, Massett, Queen Charlotte Islands, British Columbia, Canada. Fresh, Frozen, and Canned Shell Fish, Etc. Class 46. New certificate under section 7(c) issued Sept. 1, 1953, to Fishermen's Co-Operative Federation, Vancouver, British Columbia, Canada, a cooperative association of British Columbia.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 304,318. Registered June 27, 1933. The Naugatuck Chemical Company, New York, N. Y. Republished by United States Rubber Company, New York, N. Y., a corporation of New Jersey.



For Latex Composition.
Claims use since Mar. 21, 1932.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Reg. No. 292,069. Registered Mar. 1, 1932. (Classified in Class 16.) Waggener Paint Company, North Kansas City, Mo., a corporation of Missouri. Republished by registrant.
See this number in Class 16 for goods and mark.
Claims use since Aug. 4, 1931.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 304,032. Registered June 20, 1933. E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Republished by registrant.

DUPONOL

For Sulfonated Alcohols.
Claims use since Nov. 10, 1932.

Reg. No. 306,207. Registered Sept. 12, 1933. General Dyestuff Corporation, New York, N. Y., a corporation of New York. Republished by registrant.

ANTHRALAN

For Dyestuffs.
Claims use since Apr. 12, 1933.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Reg. No. 93,598. Registered Sept. 30, 1913. Hercules Powder Company, Wilmington, Del., a corporation of Delaware. Republished by registrant.

HiVeL

For Smokeless Powder.
Claims use since Apr. 18, 1913.

CLASS 12

CONSTRUCTION MATERIALS

Reg. No. 292,069. Registered Mar. 1, 1932. (Classified in Class 16.) Waggener Paint Company, North Kansas City, Mo., a corporation of Missouri. Republished by registrant.
See this number in Class 16 for goods and mark.
Claims use since Aug. 4, 1931.

Reg. No. 302,734. Registered Apr. 25, 1933. Pioneer Paper Company, Los Angeles, Calif. Republished by The Flintkote Company, New York, N. Y., a corporation of Massachusetts.

Pioneer

The word "Products" is disclaimed apart from the mark as shown.
For Bituminous Emulsions.
Claims use since on or about Oct. 16, 1929.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Reg. No. 92,782. Registered July 29, 1913. Berry Brothers, Detroit, Mich. Republished by Berry Brothers, Inc., Detroit, Mich., a corporation of Michigan.

LUXEBERRY

For Varnishes.
Claims use since July 21, 1903.

Reg. No. 292,069. Registered Mar. 1, 1932. Waggener Paint Company, North Kansas City, Mo., a corporation of Missouri. Republished by registrant.

MAYFAIR

For Varnishes, Paint Enamels, Lacquers, Calcimine, Prepared Shellac; Acid, Benzol, Oil, and Water Stains; Liquid and Paste Fillers, Japan and Oil Colors, Japan and Oil Driers; Dry, Liquid, and Paste Paints, Aluminum and Other Metallic Paints, Liquid and Prepared Wax for Polishing Purposes, Coatings and Undercoatings for Cement and Plaster in the Nature of Paints and Paint Products, Oil Base and Lacquer Base Primers and Surfacers, Glazing and Knifing Putties, Paint and Varnish Removers.
Claims use since Aug. 4, 1931.

Reg. No. 305,188. Registered Aug. 8, 1933. The Flintkote Corporation, New York, N. Y. Republished by The Flintkote Company, New York, N. Y., a corporation of Massachusetts.

STATIC

For Bituminous Emulsions and Emulsion Compounds for Use as Protective Coatings.
Claims use since on or about Mar. 1, 1933.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 304,065. Registered June 20, 1933. Allen & Hanburys, Limited, London, England, a company organised under the laws of the United Kingdom of Great Britain and Northern Ireland. Republished by registrant.

I-SO-GEL

The term "Gel" is disclaimed apart from the mark as shown.
For Medicinal Laxative Preparation.
Claims use since March 1931.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 305,055. Registered July 25, 1933. West Bend Aluminum Co., West Bend, Wis., a corporation of Wisconsin. Republished by registrant.

CADET

For Electric Immersion Heaters.
Claims use since Nov. 30, 1930.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 306,052. Registered Sept. 5, 1933. Henry Disston & Sons, Inc., Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

DISSTEEL

For Saws, Planer Knives, and Circular Knives.
Claims use since Apr. 16, 1932.

Reg. No. 306,116. Registered Sept. 5, 1933. S. L. Allen & Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

JIFFY-HOE

The word "Hoe" is disclaimed apart from the mark as shown.
For Garden Cultivators.
Claims use since Mar. 1, 1933.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Reg. No. 302,212. Registered Apr. 4, 1933. The Silex Company, Hartford, Conn., a corporation of Connecticut. Republished by registrant.

SILEX

For Gas and Spirit Stoves.
Claims use since about July 12, 1913.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Reg. No. 91,013. Registered Apr. 8, 1913. New York Belting & Packing Co. Ltd., New York, N. Y., assignor to New York Belting and Packing Company, New York, N. Y., a corporation of New York. Republished by United States Rubber Company, New York, N. Y., a corporation of New Jersey.

GREAT SEAL — NEW YORK BELTING & PACKING CO. LTD. — FOUNDED 1846 INCORPORATED 1856

The words "New York Belting & Packing Co. Ltd. Founded 1846 Incorporated 1856" are disclaimed.

For Belting, Hose, and Packing Composed of Rubber and Fabric Reinforced With Fabric and Metal.

Claims use since Mar. 17, 1911.

CLASS 37

PAPER AND STATIONERY

Reg. No. 92,388. Registered July 8, 1913. American Writing Paper Co., Holyoke, Mass. Republished by American Writing Paper Corporation, Holyoke, Mass., a corporation of Delaware.

ALBION

For Book-Paper.

Claims use since 1869.

Reg. No. 254,986. Registered Apr. 2, 1929. Old Colony Envelope Company, Westfield, Mass., a corporation of Massachusetts. Republished by registrant.

Old Colony Weddings

The word "Weddings" is disclaimed apart from the mark as shown.

For Writing and Printing Paper and Mailing Envelopes.

Claims use since Apr. 1, 1928.

Reg. No. 256,602. Registered May 21, 1929. Old Colony Envelope Company, Westfield, Mass., a corporation of Massachusetts. Republished by registrant.

WEDDING CHESTS

For Writing and Printing Paper and Mailing Envelopes.

Claims use since Apr. 1, 1928.

Reg. No. 270,923. Registered May 20, 1930. Old Colony Envelope Company, Westfield, Mass., a corporation of Massachusetts. Republished by registrant.

Mailpoint

For Envelopes.

Claims use since Sept. 13, 1929.

CLASS 38

PRINTS AND PUBLICATIONS

Reg. No. 305,736. Registered Aug. 22, 1933. Inter-Collegiate Press, Kansas City, Mo. Republished by Inter-Collegiate Press, Inc., Kansas City, Mo., a corporation of Missouri.

In-Co Art Products

The words "Art Products" are disclaimed apart from the mark as shown.

For Unfinished, Printed, Engraved, and Lithographed Greeting Cards; Enclosure Cards and Printed Invitations.

Claims use since Feb. 2, 1933.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Reg. No. 304,177. Registered June 27, 1933. Schweppes (Colonial & Foreign) Limited, London, England. Republished by Schweppes (Overseas) Limited, London, England, a company organised under the laws of the United Kingdom of Great Britain and Northern Ireland.

SCHWEPPES

For Natural Mineral and Aerated Drinking Waters and Ginger Beer.

Claims use since May 1892.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 91,144. Registered Apr. 15, 1913. Warren Packing Company, Portland, Oreg. Republished by New England Fish Company, Seattle, Wash., a corporation of Maine.

GOLDLEAF BRAND

The word "Brand" is disclaimed apart from the mark as shown.

For Canned Salmon.

Claims use since 1898.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 292,069. Registered Mar. 1, 1932. (Classified in Class 16.) Waggener Paint Company, North Kansas City, Mo., a corporation of Missouri. Republished by registrant.

See this number in Class 16 for goods and mark.

Claims use since Aug. 4, 1931.

REISSUES

SEPTEMBER 1, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

23,703

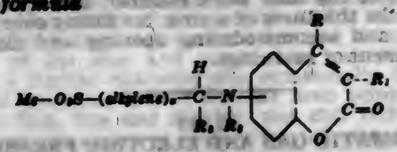
AMINO-COUMARIN-SULFONATES

Franz Ackermann, Binningen, Switzerland, assignor to Ciba Limited, Basel, Switzerland, a Swiss firm.

No Drawing. Original No. 2,600,275, dated June 17, 1952, Serial No. 752,277, June 3, 1947. Application for reissue January 26, 1953, Serial No. 333,397. In Switzerland June 14, 1946

3 Claims. (Cl. 260—343.2)

6. A water soluble aminocoumarin derivative which forms and aqueous solution showing fluorescence in ultraviolet light and corresponds to the formula



wherein each of R and R₁ is a member selected from the group consisting of hydrogen, alkyl, aryl and aralkyl, R₂ is a member selected from the group consisting of hydrogen and alkyl, R₃ is a member selected from the group consisting of hydrogen, alkyl, aryl and furfuryl, Me is an alkali metal and x is 0 or 1, R₂ being hydrogen when x is 1.

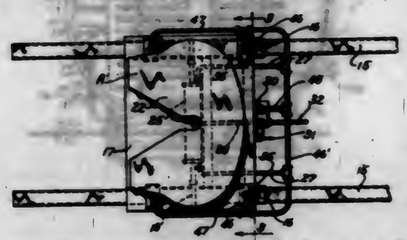
23,704

LOAD EQUALIZING DEVICE

Manford S. De Lay, St. Louis, Mo., assignor to De Lay Industries, Inc., St. Louis, Mo.

Original No. 2,589,678, dated March 18, 1952, Serial No. 200,220, December 14, 1950. Application for reissue August 13, 1952, Serial No. 304,231

8 Claims. (Cl. 280—33.05)



8. In a vehicle having a pair of parallel beams, an auxiliary frame including a pair of channel members receiving the beams, said auxiliary frame being longitudinally movable for adjustment relative to said beams, a fifth wheel carried by said auxiliary frame, fastening means for connecting said auxiliary frame to said beams, actuated lifts for moving the beams and channel members away from each other, means for withdrawing and returning said fastening means to the beams and channel members, and means for simultaneously actuating the lifts and the means for withdrawing the fastening means.

23,705

DIAGNOSTIC COMPOSITIONS

Jonas Kamlet, New York, N. Y., assignor to Miles Laboratories, Inc., Elkhart, Ind., a corporation of Indiana

No Drawing. Original No. 2,418,033, dated March 25, 1947, Serial No. 701,403, October 5, 1946. Application for reissue July 1, 1953, Serial No. 366,082

5 Claims. (Cl. 252—408)

1. A diagnostic composition in solid dry form comprising a mixture of ingredients reactive when contacted with an aqueous liquid specimen containing reducing sugar to form cuprous oxide by action of the sugar on a material supplied by the mixture said ingredients comprising essentially: a minor quantity of a water soluble solid cupric salt; a solid acidic material selected from the group consisting of citric acid, tartaric acid, an alkali metal acid salt of citric acid, [an alkali metal acid salt of tartaric acid, an alkali metal monobasic orthophosphate, an alkali metal dibasic pyrophosphate, an alkali metal hemibasic orthophosphate, an alkaline-earth metal monobasic orthophosphate, an alkaline-earth metal dibasic pyrophosphate, and an alkaline-earth metal hemi-basic orthophosphate;] and a quantity of solid alkali material selected from the group consisting of alkali metal oxides and alkali metal hydroxides, the said alkali being present in excess of that required to neutralise the solid acidic material in the mixture and in an amount adequate to generate sufficient heat to form said cuprous oxide.

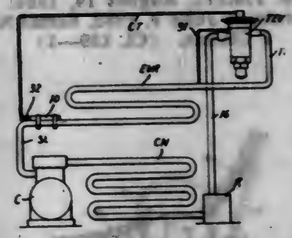
23,706

REFRIGERANT EXPANSION VALVE

Harold T. Lange, Webster Groves, Mo., assignor to Sporian Valve Company, St. Louis, Mo., a corporation of Missouri

Original No. 2,573,151, dated October 30, 1951, Serial No. 778,814, October 9, 1947. Application for reissue June 21, 1952, Serial No. 294,953

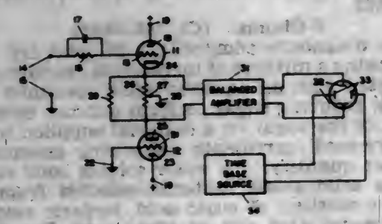
13 Claims. (Cl. 62—3)



1. In a refrigerant system of compressor-condenser-evaporator type, including a thermostatic expansion valve together with a thermal responsive device for actuating the valve, said device including a fluid motor and a fluid-charged thermal sensing unit, means translating fluid expansion within the sensing unit, to the valve for actuation of same, the sensing unit being of chambered characteristic, and a mass of a solid ma-

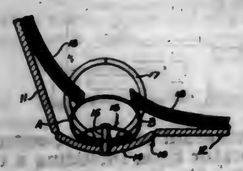
terial within the chambered portion of the sensing unit providing an augmented condensing surface and mass, said mass having a predominant proportion of its surface area spaced from the material of the sensing unit and a greater heat capacity than the material of the sensing unit.

23,707
DIRECT CURRENT BALANCE ADJUSTMENT
Meyer Maren, Passaic, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J., a corporation of Delaware
Original No. 2,631,199, dated March 10, 1953, Serial No. 186,472, September 22, 1950. Application for reissue May 22, 1953, Serial No. 356,924
4 Claims. (Cl. 179—171)



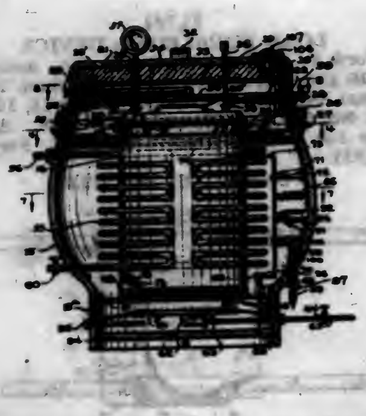
1. A direct current amplifier circuit for oscillographs or the like comprising a pair of electron tubes each having a cathode, a grid and an anode, a source of positive potential connected directly to each of said anodes, means for impressing an input signal on one of said grids the other of said grids being grounded, means providing a resistance between each of said cathodes and ground, the resistance between at least one of said cathodes and ground being adjustable to adjust the balance of the outputs from said tubes, a resistor directly connecting said cathodes for transferring signal potentials from one of said cathodes to the other independently of said resistance providing means, and *a load circuit* directly coupled to said cathodes to derive a balanced output therefrom.

23,708
LOOSE-LEAF BINDER
William McKowen, Des Moines, Iowa
Original No. 2,607,350, dated August 19, 1952, Serial No. 179,177, August 14, 1950. Application for reissue June 9, 1953, Serial No. 360,626
5 Claims. (Cl. 129—1)



1. A loose leaf binder comprising a pair of cover members hinged to a back member and adapted to be swung to open and closed positions, a plurality of spaced apart substantially circular retaining rings adapted to receive filler sheets provided with apertures at their inner marginal edges for fitting over said rings, said retaining rings being split and portions thereof being swingable toward and away from each other to close or open the rings, a shield plate mounted on and spaced away from said back member to provide a substantially enclosed chamber for positioning therein a ring operating mechanism for supporting said rings and for opening and closing the rings, said shield plate having apertures through which the rings extend with more than two-thirds of the arc of the circle of each ring exposed, a filler block member, separate and apart from said shield plate, of elongated cylindrical form, said filler block member having [its longitudinal edges] *portions thereof* positioned between said shield plate and said back member and extending from adjacent said shield plate to intersect the axial projection of said rings at two points so as to block off at least one-third of the arc of the ring circles with said shield plate positioned symmetrically within said blocked-off one-third, and said filler block member having series of apertures each of a dimension, in a direction normal to the length of the filler block member, much greater than the thickness of a ring, for fitting over said rings and accommodating opening and closing movement of said rings.

23,709
AUTOMATIC GAS AND ELECTRIC PRESSURE COOKER
Irving Page, New York, N. Y.
Original No. 2,537,695, dated January 9, 1951, Serial No. 618,850, September 27, 1945. Application for reissue December 29, 1951, Serial No. 264,109
8 Claims. (Cl. 219—43)



8. A gas and electric automatic pressure pot, comprising a container for a pot, a cover for said container, a pot removably mounted in said container, gas and electric heating means disposed within and supported by said container, said gas and electric heating means being positioned below said pot, said electrical heating means when energized initiating ignition of said gas means, pressure responsive means connected with said pot for rendering said gas and electric means inoperative, and manual means for rendering the gas heating means inoperative whereby the pressure pot is adapted to be operated by the electrical heating means alone.

PLANT PATENTS

GRANTED SEPTEMBER 1, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,213
PLUM TREE
Lawrence C. Edwards, Oakland, Calif.
Application October 26, 1951, Serial No. 253,255
1 Claim. (Cl. 47—63)

A new and distinct variety of plum tree substantially as described and illustrated which suckers readily from the roots and is characterized by semi-freestone fruit which is deep, blackish purple in color; exceptionally large, being much larger than the Tragedy plum, and ripening several days later; delicate in flavor; bearing a fleshy ring about and adherent to the base of the stem in the fruit cavity, such ring being the color of the skin and much more pronounced than a similar characteristic occasionally found in the Bradshaw plum; and the flesh being medium firm, fine and melting, and dull yellowish or brownish amber in color when full ripe.

1,214
AFRICAN VIOLET PLANT
Dale W. Ulery, Springfield, Ohio, assignor to Ulery Greenhouses, Springfield, Ohio, a partnership
Application October 31, 1952, Serial No. 318,135
1 Claim. (Cl. 47—66)

A new and ornamental variety of African violet plant, substantially as illustrated and described, characterized by its vigorous compact growth, sturdy petioles and its predominant large green leaves and large clear pink blossoms.

1,215
CAMELLIA PLANT
Walter E. Lammerts, La Canada, Calif., assignor to Descanso Distributors, Inc., La Canada, Calif., a corporation of California
Application October 8, 1952, Serial No. 313,818
1 Claim. (Cl. 47—66)

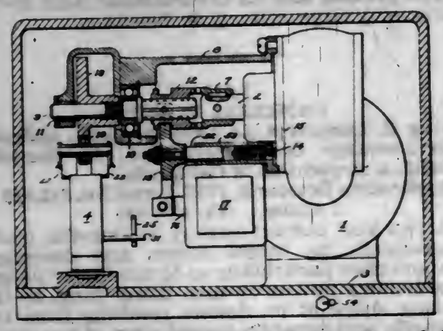
A new and distinct variety of camellia plant, substantially as herein shown and described, characterized particularly as to novelty by its unusually large flowers of open-flower form, by the arcuate shape of its flowers resulting from the upwardly and inwardly arched form of the petals thereof, by the substantial uniformity of the Phlox Pink general color tonality of its flowers, with veins of Tyrian Rose, and by the unusual transformations in the form of the flowers, the petals of which gradually increase in size and become more arched inward and more arcuate in shape as the flowers age, thereby giving the mature flowers an unusually great depth.

PATENTS

GRANTED SEPTEMBER 1, 1953

GENERAL AND MECHANICAL

2,650,260
AUTOMATIC STAPLING MACHINE
Romeo M. Nardone, Teaneck, N. J.
Application November 8, 1949, Serial No. 126,111
8 Claims. (Cl. 1—3)



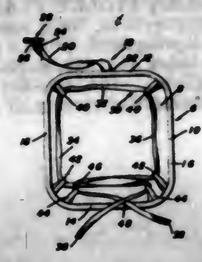
1. In a stapling machine or the like of the reciprocable head type, an electric motor and a circuit, a main control switch for said circuit closed by insertion of the work in the machine and opened when the work is removed, head depressing means, a clutch between the head depressing means and motor that is spring biased to open position, electro-magnetic means energized by the closed circuit to clutch the head depressing means to the motor to depress the head, a normally closed switch in said circuit unaffected during head depression but opened by return movement of the head to break the circuit to the electro-magnetically operated clutching means and permit spring return of the clutch to disconnect the head depressing means and motor, switch opening means movable with the head, means normally holding said switch opening means against movement to switch opening engagement during depression of the head, and means to move said switch opening means into a position to release the holding means therefor and to permit it to open said switch after the downward movement of the head is completed.

2,650,261
HAND COVERING FOR USE IN ASSOCIATION WITH HANDLEBARS
Isabel N. Grothe and Elizabeth J. Smith, Westport, Conn.
Application May 1, 1951, Serial No. 224,046
1 Claim. (Cl. 2—17)



For use on the handlebar of a hand-propelled vehicle such as a baby carriage, a pair of independently movable mitts wherein each mitt is provided with an open end as well as a closed end and has top and bottom portions secured together by side portions, two aligned apertures in the side portions adapted to encircle a handlebar, separable fastening means to open and close access to the apertures by the handlebar, an inner lining adapted to encircle the handlebar and having its ends secured to the peripheries of the apertures thus connecting the apertures one with the other, and separable fastening means along the connecting length of said lining to open and close access to the handlebar, whereby when the mitt is positioned on the handlebar there is provided a layer of material between one handlebar and the wearer's hand while the mitt itself surrounds the hand.

2,650,262
KNEE PAD FOR INFANTS
Christine Musgrave, St. Charles, Mo.
Application November 16, 1951, Serial No. 256,717
4 Claims. (Cl. 2—24)



1. An infant's knee pad construction comprising a launderable cloth pad of general rectangular form, supporter means carried by said pad for detachably fastening said pad to a garment worn by the wearer of the pad, a first pair of opposed loops carried by the forward corners of the pad, a second pair of opposed loops carried by the rearward corners of said pad, a third pair of opposed loops carried by the last named corners and spaced rearwardly from said second pair of loops, and an elongated draw tape having its intermediate portion laced slidably through said first pair of opposed loops and the end portions laced respectively through said second and third pairs of opposed loops with its terminal portions available for connection with each other.

2,650,263
BRASSIÈRE WITH BREAST STRAPS HAVING ADJUSTMENT AT SIDES
Jack J. Lo Cascio, Bayonne, N. J., assignor to Even-Pul Foundations, Inc., New York, N. Y., a corporation of New York
Application April 2, 1951, Serial No. 218,775
1 Claim. (Cl. 2—42)

A brassière including a front section comprising a pair of breast cups having contiguous inner edges thereof secured together by a vertical

line of stitching, a pair of elastic inserts secured to the outer edges of the respective breast cups, a pair of side sections secured to the respective inserts and extending around the sides to the back of the brassière, front edge portions of said side sections being provided adjacent their lower edges with a pair of vertical slots, a pair of elastic straps secured by said line of stitching to the inside of said front section at a point spaced substantially upwardly from the lower edge of the



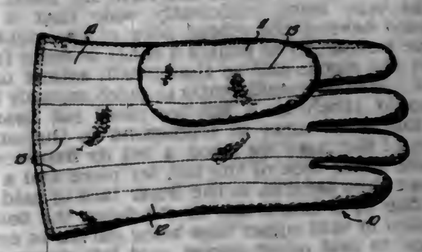
front section, said straps extending downwardly and laterally to opposite sides of said line of stitching across the respective breast cups and the respective inserts and projecting slidably through the respective slots to the outside of the brassière, the outer end portions of said straps being superposed longitudinally on the respective side sections, and longitudinally adjustable means for connecting the outer end portions of the straps to said side sections.

2,650,264
UNDERARM SLEEVE CONSTRUCTION
Joseph Clyne, Bronx, N. Y., assignor, by mesne assignments, to Flexsleev, Inc., a corporation of New York
Original application August 29, 1947, Serial No. 771,242, now Patent No. 2,582,089, dated January 22, 1952. Divided and this application June 9, 1951, Serial No. 230,786
3 Claims. (Cl. 2—93)



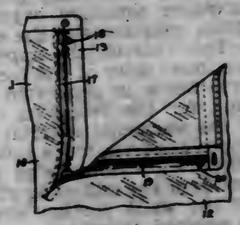
1. In a garment, a body portion, and a sleeve having an under-arm portion and an over-arm portion, said portions having edges attached together along the front of the sleeve, each portion of the sleeve having an attachment end attached to the body portion of the garment at the armhole, each of said portions of the sleeve including an armpit allowance which is blended into the attachment end of the sleeve and gradually diminishes in width from where the two portions are attached to one another at the front, the end edge of the allowance of the under-arm portion including a wave curve of relatively small amplitude with the outwardly projecting portion of the wave positioned at the armpit of the garment, said over-arm portion having an attachment edge of outwardly curved symmetrical shape the center of which is positioned at the shoulder of the garment.

2,650,265
FLAME- AND HEAT-RESISTANT WORK GLOVE
Isadore Singer, Chicago, Ill.
Application July 5, 1951, Serial No. 235,253
2 Claims. (Cl. 2—167)



1. A work glove to protect against high temperatures, in which a surface exposed to the high temperature is constructed of a laminated heat- and flame-resistant fabric, said fabric comprising a first layer of material having an outer surface, constituting the temperature-exposed surface of the glove, which is of relatively dense and rough, shaggy texture, which material is impregnated with a dry, substantially non-vaporizable flame-proofing compound, an intermediate layer of loosely assembled, heat-resistant fibers, and a third layer having a texture comfortable to the touch, said layers being assembled in superposed relation in the order mentioned and secured together by lines of stitching extending through all three layers, said lines of stitching being spaced from one another sufficiently to preserve a loosely assembled, relatively fluffy relationship of said intermediate fibers yet to prevent substantial bodily displacement of said fibers between said first and third layers.

2,650,266
ZIPPER FASTENED TROUSER FLY
James De Witt Knotter, Cheshire, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application January 16, 1952, Serial No. 266,691
2 Claims. (Cl. 2—234)



1. An improved zipper fastened fly construction comprising a right leg piece, the edge of which is folded under and has an inwardly directed curve near the bottom, a right fly flap one edge of which is positioned under said folded edge of the right leg piece and which protrudes to form a prolongation of the right leg surface, a line of stitching connecting said edges of the fly flap and leg piece, a right zipper tape positioned between said folded edge of the right leg piece and said edge of the right fly flap and extending under said leg piece a substantial distance beyond said edge of the fly flap, the bottom

portion of said zipper tape curving to correspond to the curvature of the right leg piece, a facing extending across the inner surface of said fly flap and also a substantial distance beyond said edge of the fly flap, a second line of stitching extending through said facing, said zipper tape and said folded edge of the right leg piece, said right tape being sufficiently wide that it will extend beyond the folded edge of the right leg piece sufficiently to enable a slider to move freely over the zipper and so that it will extend under said folded edge sufficiently to catch securely both lines of stitching, a left leg piece cut near its bottom on a curve to correspond to the curved edge of the right leg piece, a left fly flap secured to the inner face of the left leg piece and a left zipper tape secured to the inner face of said left fly flap by a single line of stitching, the bottom portion of said zipper tape being curved to correspond to said other curves, said left zipper tape being substantially narrower than the right tape, having only such width that the single line of stitching is sufficiently spaced from the fastener elements to permit free movement of said slider and to allow the tape to extend on the other side of the stitching only a sufficient distance to insure that the tape is securely held by the stitching.

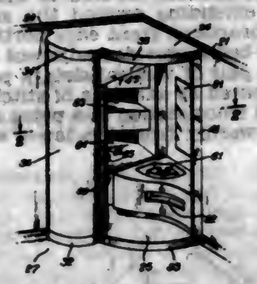
2,650,267
GARMENT WAISTBAND AND METHOD OF MAKING SAME
Samuel F. Stein, Milton, Pa.
Application June 20, 1949, Serial No. 100,140
4 Claims. (Cl. 2—236)



1. The structure of a waistband lining for the interior waist portion of a garment having an upper end edge, a facing strip having an upper edge and a lower edge, a stiffening strip having upper and lower edges, said fascing and stiffening strips being superposed and with the corresponding upper and lower edges in parallel relation, said stiffening strip being provided with a heat and pressure sensitive exposed adhesive coating covering substantially the entire area of the outer surface thereof, the upper portions of the respective inner sides of the facing strip and stiffening strip being in separated relationship, thus providing for the reception of the upper end edge of the garment material between the respective upper portions to be stitched thereat and said adhesive providing also for the subsequent adhesion of the stiffening strip to an adjacent ply of the waist portion when heat and pressure are applied thereto.

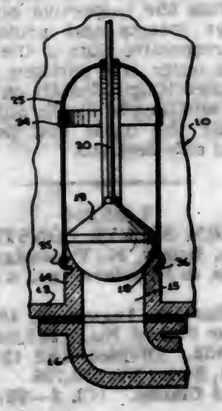
2,650,268
BATHROOM CONSTRUCTION
Randolph Evans, Bronxville, N. Y.
Application June 3, 1950, Serial No. 166,803
11 Claims. (Cl. 4—2)

1. In a room construction of the character described, a plurality of sanitary facilities disposed in fixed, spaced relation to each other in a confined space, and a partition which is pivotally mounted in said confined space for movement from one position to another relative to said sanitary facilities, said partition being provided with a recess which registers with and receives at least one of said facilities when the partition



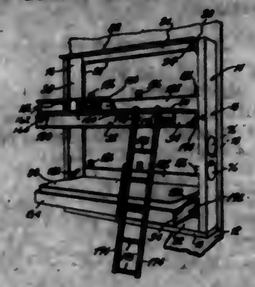
is swung in the direction of said facility to conceal said facility.

2,650,269
FLUSH VALVE GUIDE
Jesse B. Allen, Mercedes, Tex.
Application January 26, 1951, Serial No. 207,959
2 Claims. (Cl. 4—57)



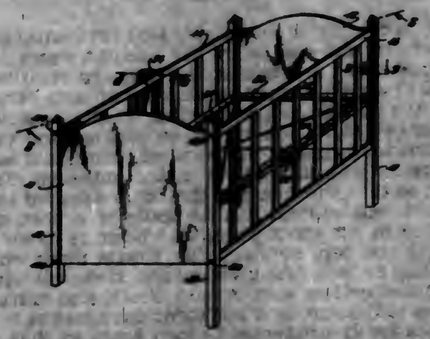
1. The combination with a toilet bowl flush valve seat boss having an external groove, an annular seat on its upper end above said seat, and a ball valve engageable in said seat and having an upwardly projecting valve stem centered relative to the seat, of a guide cage comprising a pair of inverted U-shaped elements having arcuate bight portions, said bight portions intersecting at the middle thereof and being provided with a guide hole traversing the bight portions at the point at their intersetcion and slidably receiving the ball valve stem, said U-shaped elements further comprising straight legs depending from the ends of their bight portions, said legs being parallel to each other and equally circumferentially spaced around the valve seat boss, the facing sides of the legs being spaced from each other across the valve seat to slidably confine the ball valve to a vertical path of movement coinciding with the valve seat, said legs being long enough to provide for full opening and closing movements of the ball valve between said bight portions and the lower ends of the legs, and resilient inwardly directed hooks on the lower ends of the legs, said hooks including portions arranged to rest upon the upper end of the valve seat boss and laterally inwardly directed terminal end portions engageable in the valve seat boss groove for removably mounting the cage on the valve seat boss.

2,650,270
BERTH STRUCTURE
Roger G. Cudini, Birmingham, Mich., assignor to Moynahan Bronze Company, Detroit, Mich., a corporation of Michigan
Application October 7, 1949, Serial No. 120,125
18 Claims. (Cl. 5—9)



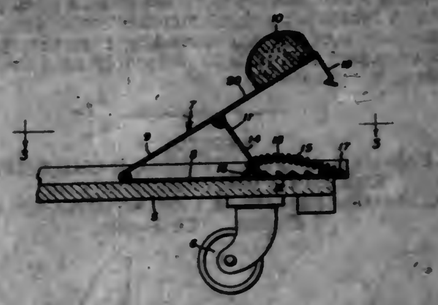
1. In a berth structure, a supporting carrier structure having top and side walls, a berth pan pivotally mounted between the side walls to be swung downwardly into horizontal position or upwardly into stored vertical position with its bottom wall flush with the front of the top and side walls of the carrier supporting structure, a front flap adapted to cover the space in the supporting structure between the front of the top wall and the upper end of the berth pan bottom when in stored position, means for pivotally mounting the flap to the top wall, means operable to swing said flap to and from closure position, means for automatically actuating said flap swinging means to open the flap, and means projecting into the path of movement of said berth pan and operable thereby when moving to stored position for actuating the flap swinging means to close the flap.

2,650,271
ADJUSTABLE SUPPORT
Joseph S. Shewalter, Winter Park, Fla.
Application September 29, 1950, Serial No. 187,553
7 Claims. (Cl. 5—11)



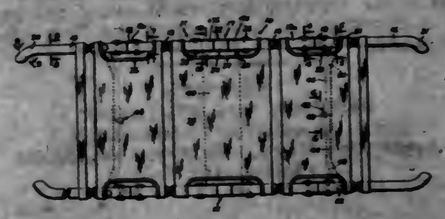
1. A structure comprising, a frame having horizontally spaced upstanding portions, a support arranged to move vertically between said upstanding portions, first means connected to said upstanding portions and said support and arranged to guide said support for substantially vertical movement while preventing tilting thereof about a first substantially horizontal axis, second means also connected to said upstanding portions and said support and preventing tilting thereof about a second substantially horizontal axis angularly related to said first axis.

2,650,272
PILLOW ADJUSTER FOR AUTOMOBILE MECHANIC'S CREEPER
Richard J. Lowe, Centerville, Iowa
Application August 9, 1948, Serial No. 43,170
2 Claims. (Cl. 5—75)



1. A head rest for mechanics' creepers comprising a hinge structure including a lower fixed plate adapted for attaching on top of a creeper and an upper vertically swingable plate overlying the lower plate, a pad carried by the upper plate, teeth formed on the lower plate, a prop pivoted to the upper late and selectively engaged with said teeth to hold the upper plate in vertically adjusted position, said prop having an opening, and an elongated resilient member attached under tension at its end portions to the lower plate and passing freely through the opening in a bowed position to hold the prop engaged with a selected tooth.

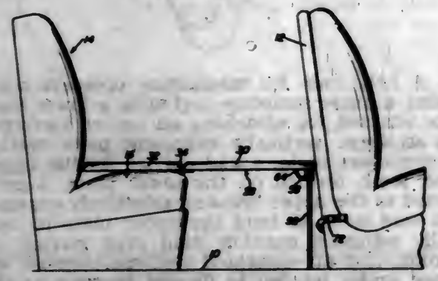
2,650,273
FOLDING STRETCHER
Theodore J. Zeller, Allentown, Pa., and Sidney H. Bingham, New York, N. Y.
Application June 21, 1951, Serial No. 232,783
1 Claim. (Cl. 5—82)



A folding litter for installation in buses and other vehicles comprising a pair of side rails, each rail having a pair of middle sections and a pair of end sections at opposite ends of said middle sections, hinges connecting the inner ends of said middle sections to each other and the outer end of each middle section to the inner end of one of said end sections; each of the hinges connecting the adjacent ends of said middle sections including an upwardly opening channel member having substantially parallel side flanges and a bottom web shorter than said side flanges and terminating inwardly of the ends of said side flanges, and pivot means extending through said side flanges and said adjacent ends of said middle rail sections; said hinges restraining said sections to movement between an open position in alignment with each other and a folded position substantially parallel with each other, each end section having a curved outer end forming a supporting leg and handle, other supporting legs mounted on the hinges connecting the inner ends of said mid-

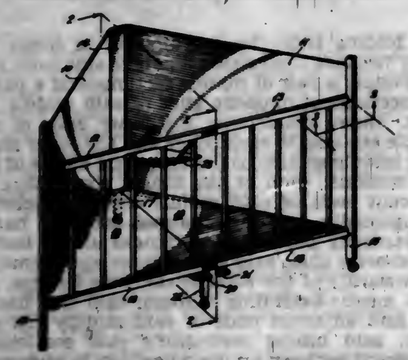
dle section and extending in the same direction as said curved outer ends; each of said other legs including a V-shaped member fixed to the bottom web of the hinges connecting the inner ends of said middle sections and extending to about the plane of the ends of said supporting legs and handles when said sections are in said open position; a fabric supporting member connecting said side rails, and hinged spreading bars interposed between said side rails to releasably hold them in spaced apart relation.

2,650,374
CAR BED AND PLAYPEN FOR CHILDREN
Richard J. Pierce, Bellflower, Calif.
Application January 20, 1950, Serial No. 139,673
5 Claims. (Cl. 5—94)



1. A foldable automobile bed comprising a substantially rectangular platform consisting of a plurality of sections disposed in side-by-side relation in an automobile, each section being adapted to substantially fill the space between the back of the front seat and the front of the back of the rear seat of an automobile, each section comprising front and rear panels transversely hinged to each other, the rear panel being devoid of legs and adapted to rest upon the seat cushion of the rear seat between the rear seat back and the front edge of the rear seat cushion, foldable legs pivoted to the forward portions of said front panel for supporting the latter upon the floor of an automobile.

2,650,375
PLAYPEN FOR CHILDREN
Ann E. Serrell, West Hempstead, N. Y.
Application May 2, 1950, Serial No. 159,426
16 Claims. (Cl. 5—99)



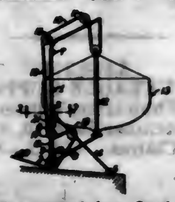
10. In a play pen having fence parts providing an enclosure of substantially right isosceles triangular horizontal cross section, the combination of, a foldable fence part formed of two sections of equal length constituting the hypotenuse side of the enclosure, a right triangular floor part horizontally hinged at the bottom of one of said sections, a second right triangular floor part horizontally hinged at the bottom of the other of said sections, and a pair of juxtaposed pedals, one of which is connected to one of the floor parts, and the other of which is connected to the other of the floor parts.

2,650,376
SECTIONAL BOAT
Benjamin L. Sommer, Evanston, Ill.
Application February 7, 1950, Serial No. 142,783
4 Claims. (Cl. 9—8)



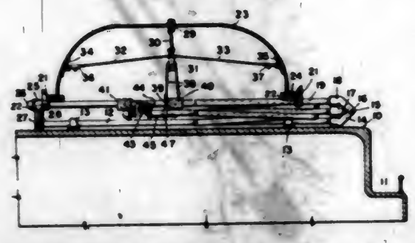
1. A sectional boat comprising a plurality of sections having interlocking means on the meeting surfaces, said means comprising interlocking flanges, the flanges on one side of the vertical center line of the cross-section of a section facing outwardly of the boat and the flanges on the opposite side of the boat facing inwardly whereby said flanges on adjacent sections may be interlocked and freed by relative rotation between the sections.

2,650,377
TRESTLE BOAT-DAVIT OF THE ROTATION AND GRAVITY TYPE
Domenico Barricelli, Genoa, Italy
Application June 30, 1949, Serial No. 102,251
In Italy August 12, 1948
6 Claims. (Cl. 9—39)



1. A boat davit comprising first horizontal pivot means mounted adjacent the side of a ship's deck, second pivot means disposed inboard relative to said first pivot means and having an axis parallel to the latter, a supporting beam pivotally mounted at its lower end on said second pivot means for swinging in a vertical plane, said beam being longitudinally bent in the outboard direction so that the free end thereof is adapted to lie in the longitudinal medial plane of a boat supported in the davit when said beam is in an inboard position, a triangular trestle mounted at its base on said first pivot means, means pivotally mounted on the apex of said trestle and movable along said beam, said last mentioned means being permanently connected to said beam so that the swinging movements of said beam and said trestle about the respective pivot means are interdependent, spaced apart stop means on said beam in the path of said movable means and engageable with said movable means for limiting the swinging movements of said beam in both the inboard and outboard directions, lever means constructed and rockably mounted for engagement under the supported boat in the rest position of the latter and engageable with said supporting beam to induce initial swinging of said beam in the out-board direction in response to the weight of the boat bearing on the lever means, and rope and pulley means operatively connected to said trestle and beam for supporting a boat from the free end of the latter and for controlling the position of said trestle relative to said beam.

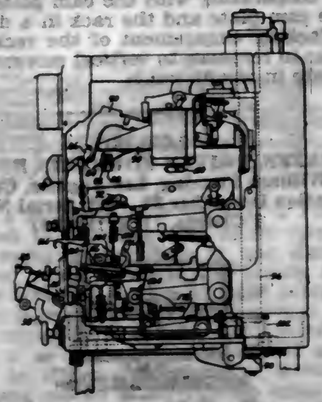
2,650,378
DAVIT
Herman Edward Weinstein, Schenectady, N. Y.
Application February 24, 1950, Serial No. 145,949
8 Claims. (Cl. 9—39)



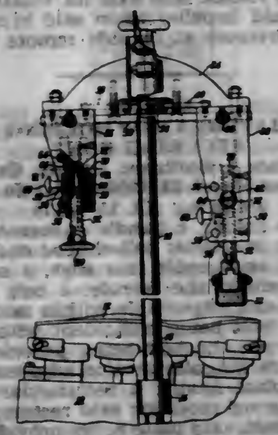
1. Apparatus for launching and landing a small boat comprising in combination a plurality of tubular members pivotally secured to one another at the same point and secured to a carrying craft, a boat having securing means connected in the keel thereof, adjustable guide and chocking members on one said tubular member, self-locking worm and gear means on one said tubular member, a first vertical lift pulley connected to said securing means in said boat, a second vertical lift pulley on said tubular member having said guide members thereon substantially vertically above said first vertical lift pulley, a pivot pulley on said same tubular member spaced from said second vertical lift pulley, a wind-up drum operatively connected to said worm and gear, a cable connected to said drum passing through said pivot pulley, said second vertical lift pulley and said first vertical lift pulley and then secured to said tubular member having said guide members thereon, said boat being adapted to be raised by said cable into contact with said tubular member having said adjustable guide and chock means thereon without pivoting movement of said tubular member due to the pulley arrangement, said tubular member in contact with said boat being adapted to pivot away from another said tubular member into a horizontal position upon unwinding said cable and upon subsequent unwinding of said cable said boat being lowered from said horizontal tubular member.

2,650,379
LASTING MACHINE
Bernhardt Jorgensen, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 24, 1950, Serial No. 191,787
23 Claims. (Cl. 12—16.5)

6. In a lasting machine, wipers for wiping the margin of an upper around the toe end of a last inwardly over an insole on the last, upper-trimming means arranged to remove from the margin of the upper supported in outspread position on said wipers all but the outer layer of the upper materials prior to the wiping of the upper inwardly over the insole, a wiper support movable to carry the wipers heightwise of the last past the edge of the insole into positions thus to support the margin of the upper for the upper-trimming operation, an operating member having a predetermined limit of movement thus to move the wiper support prior to the upper-trimming operation and thereafter to move it a second time in the same direction heightwise of the last to carry the wipers into positions for wiping the upper inwardly over the insole, means for transmitting movement to the wiper support from said operating member, said transmitting means including a link mounted for swinging movement and having therein a slot so formed as to terminate the second movement of the wiper support short of the limit of its first movement in consequence of swinging movement of the link from one position to another position, and means for thus swinging the link in response to the second movement of the wiper support.



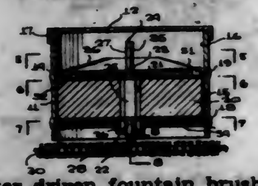
2,650,380
MACHINE FOR APPLYING PRESSURE TO SHOE BOTTOMS
Andrew Eppler, Jr., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application June 5, 1951, Serial No. 229,979
4 Claims. (Cl. 12—33)



1. In a machine for applying pressure to shoe bottoms, a sole-supporting pad, means for supporting a shoe and last against the pressure of said pad comprising an abutment, a vertically adjustable rack carrying said abutment, a support for said rack, a rack bar carried by said support cooperating with the rack to lock the rack against vertical movement relatively to said support, means for moving the rack laterally out of locking engagement with the rack bar to permit ver-

tical adjustment of the rack and of the abutment carried thereby, said means comprising a vertically movable cam plate carried by said support, means connecting the cam plate and the rack for conjoint movements toward and from the rack bar while permitting relative vertical movements between the plate and the rack, and means cooperating with the cam plate for moving the cam plate and the rack in a direction to cause locking engagement of the rack with the rack bar in response to vertical movement of the cam plate in one direction.

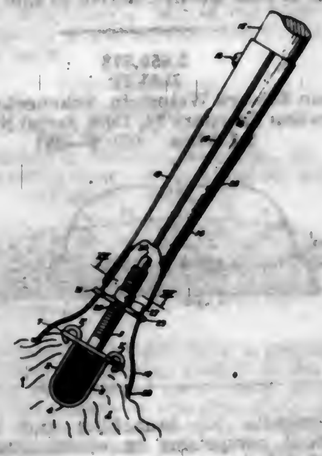
2,650,231
WATER DRIVEN FOUNTAIN BRUSH
William Fleming, Los Angeles, Calif.
Application December 30, 1952, Serial No. 328,675
3 Claims. (Cl. 15—29)



3. A water driven fountain brush comprising a housing enclosing an impeller chamber and having a perforate end wall, an impeller rotatable in said housing and having a coaxial bore, an axle extending through said bore and said end wall and drivingly connected to said impeller, a brush coaxially secured to said axle at a location spaced from the outer side of said end wall, a conduit connected at one end to said housing in position to direct a jet of water into said impeller chamber substantially tangentially of said impeller, and means carried by said end wall and engageable with said axle to lock said axle and said impeller against rotation when said brush is subject at its side adjacent said end wall to the pressure of water flowing from said impeller chamber through said perforate end wall and free of pressure on its side remote from said end wall and to release said axle for rotation of said axle and said impeller when said brush is subjected to pressure at its side remote from said end wall.

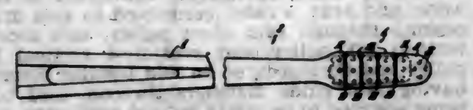
2,650,232
MOP HAVING A MOP HOLDING AND SECURING BOLT
Wallace A. Ballinger, Orinda, Calif.
Application March 22, 1950, Serial No. 151,146
1 Claim. (Cl. 15—147)

In a mop holder, a handle engageable ferrule terminating in a lower bell-shaped end having a mop strand engageable free edge, a nut rigidly supported within the ferrule, a bolt having a threaded shank engageable within said nut, the axis of the bolt being coincident with the axis of said ferrule, the bolt being provided with a head and a rectangular portion adjacent thereto, a circular plate having a rectangular aperture centrally thereof receiving said rectangular portion of the bolt, said plate being provided with a pair of notches in its edge at diametrically opposed points, a pair of apertures in the plate intermediate said notches and said rectangular aperture, a U-shaped clamping rod having the parallel legs thereof extending through said pair of apertures and the free ends thereof being turned outwardly radially of the plate, thence axially thereof and engaged within said notches whereby to provide for rigid clamping engagement of the central portions of elongated mop strands within the opening defined by said plate and said clamping rod, and the said free edge of the bell-shaped end of the ferrule having a



compressive action on the mop strands upon radially inward adjustment of the bolt for sealing the interior of the ferrule by said mop.

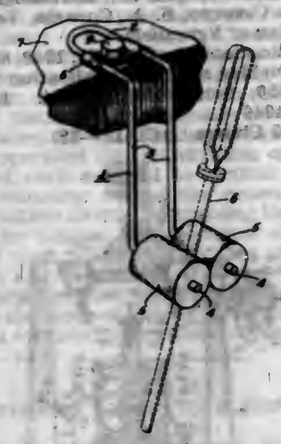
2,650,233
TOOTHBRUSH WITH A FLEXIBLE HEAD
Louis R. Brenzier, Southampton, Mass.
Application March 7, 1952, Serial No. 275,845
3 Claims. (Cl. 15—167)



1. A brush construction of the type wherein bristle carrying sections are connected by a resilient member for relative flexing movements comprising in combination, opposite end sections and a plurality of intermediate sections therebetween of plastic material molded about an elongated relatively thin resilient member having opposite ends in said end sections and an intermediate portion extending through said plurality of intermediate sections, and tufts of bristles secured to said sections by staples extending through said resilient member and being anchored in the upper portions of said sections.

2,650,234
OIL GAUGE ROD WIPER
Paul L. McCluskey, Phoenixville, Pa.
Application January 30, 1948, Serial No. 5,390
1 Claim. (Cl. 15—210)

An oil gauge rod wiper and mounting clamp therefor, comprising a single resilient rod having a U bend midway of its ends, the adjacent portions of said rod provided by said U bend being spaced and substantially parallel throughout their lengths from the U bend to the ends of said rod, said portions having angle bends forming oppositely directed extensions terminating at said U bend and at said ends, a mounting clamp adapted to span and engage the extensions terminating at said U bend, and a pair of cylindrical wiper rolls respectively carried by the extensions terminating at said ends and between which an oil gauge rod may be drawn.

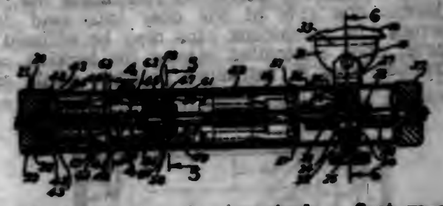


2,650,235
BUFFING PAD CUSHION HAVING PASSAGES FOR CIRCULATING COOLING AIR THROUGH THE CUSHION TO THE BUFFING PAD
Frank De Michel, Chicago, Ill.
Application December 12, 1947, Serial No. 791,362
4 Claims. (Cl. 15—230)



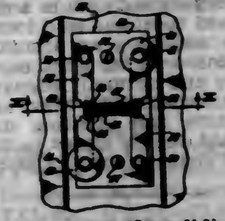
1. A cushion for a buffing pad adapted to be connected to a rotatable shaft and to have mounted thereon a buffing pad of the type which encloses the face and periphery of the cushion and which has a small central hole formed therein, said cushion being formed of a spongy easily compressible rubber so that it is locally compressible by buffing pressure, said cushion being formed with air passages therein open to the cushion face normally covered by the pad, and said cushion being formed with a central cavity therein with which the small central hole falls into alignment when the pad is mounted on the cushion, said cavity communicating with said passages, whereby local compression of said cushion under buffing pressure as said cushion and pad are rotated causes circulation of air through said passages, cavity and hole to effect cooling of said cushion and pad.

2,650,236
SWINGING DOOR CONTROL
Walter S. Edwards, New Haven, Conn.; Martha Furbish Edwards, executrix of said Walter S. Edwards, deceased
Application January 12, 1949, Serial No. 70,415
19 Claims. (Cl. 16—49)



1. In a swinging door control, a first means connected to the door and acted upon by the act of swinging the door in one direction, to be placed under tension, said means acting on the door to swing it toward closed position when the door is released after being opened, a second means connected to the door and acted upon by the act of swinging the door toward open position, to be placed under tension, means to lock the second means under tension when the door is partly open, and means to release the second means for it to act on the door to close and latch it, when the door is partly closed by said first means after it has been released from open position.

2,650,237
TOP GUIDE FOR SLIDING PANEL CONSTRUCTION
Donald D. Fess, Van Nuys, Calif.
Application July 21, 1951, Serial No. 237,854
2 Claims. (Cl. 16—91)

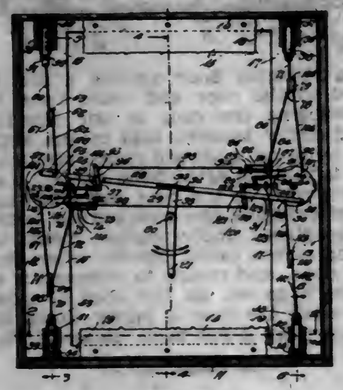


2. A top guide device for sliding panel construction wherein a top portion of a panel is slidably accommodated within a downwardly facing recess and for maintaining said top portion in normally centered relation within said recess, the combination of: an elongated plate adapted to be secured to the top portion of a slidable panel; spaced parallel longitudinally extending arms overlying spaced longitudinal edge margins of said plate and each having a pivotal connection to said plate; a rotatable roller carried at the end of each arm and spaced from the pivotal connection; upstanding anchor means provided on the plate, an upwardly directed portion on each arm opposite to said anchor means; and spring means held by said anchor means and connected to said upwardly directed portions and adapted to urge said rollers into contact with internal walls of said recess.

2,650,238
HINGING MEANS
William John White, North Miami Beach, Fla.
Application August 1, 1950, Serial No. 177,941
6 Claims. (Cl. 16—147)

1. An apparatus of the character described comprising, in combination with a door and

frame therefor, vertically slidable pins mounted in the upper and lower ends of said door adjacent each corner thereof, a pin-receiving socket for each of said pins, said sockets being affixed to said frame and adapted to register vertically with said pins when said door is in closed condition, a handle for said door, means operable by said handle for selectively retracting the pins adjacent one side of the door into said door whereby the remaining pins may be utilized as hinges, door controlled means for locking said retracted pins in retracted position while said



door is in opened condition and for unlocking said pins when the door is closed, said means for normally maintaining said pins in said sockets including a housing for each of said pins, and spring means urging each pin in a direction outwardly from said door, and said locking and unlocking means including an annular groove in each of said pins, a spring latch carried by each of the housings and normally engageable in said groove of its associated pin when said pin is in retracted position and abutting its associated socket when said door is closed to thereby move the same out of engagement with said groove.

2,650,389

PROCESS FOR MANUFACTURING SHAPED ARTICLES OF RUBBER HYDROCHLORIDE

Gerrit Schuur, The Hague, Netherlands, assignor to Rubber-Stichting, Delft, Netherlands

No Drawing. Application October 30, 1950, Serial No. 193,038. In the Netherlands November 7, 1949

12 Claims. (Cl. 18—47.5)

1. In the production of shaped articles of rubber hydrochloride, the process which comprises dispersing a finely-divided hydrocarbon-insoluble rubber hydrochloride, produced by the hydrochlorination of acid-stabilized rubber latex, in an amount of solvent-soluble plasticizer which is in excess of that which is soluble in the hydrochloride at ordinary temperatures and sufficient to make a plastic paste at the temperature of the forming step, forming the paste into the desired shape at a temperature below the gelatinizing temperature, heating the formed article to gelatinizing temperatures below the decomposition point of the hydrochloride, treating the article with a volatile solvent for the plasticizer which is a non-solvent for the rubber hydrochloride to remove sufficient plasticizer to prevent bleeding thereof, and drying to remove the solvent.

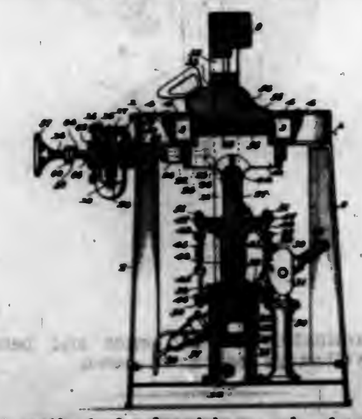
2,650,390

METHOD FOR VULCANIZING RUBBER SOLES ON BOOTS AND SHOES

Gonzalo Mediano Capdevila, Barcelona, Spain, assignor to Coturno, S. A., Caracas, Venezuela, a corporation of Venezuela

Original application December 27, 1949, Serial No. 135,246. Divided and this application September 11, 1950, Serial No. 184,264. In Spain March 30, 1946

5 Claims. (Cl. 18—59)



1. A method of vulcanizing a sole of vulcanizable material to an upper comprising oscillating a last having an upper thereon and thereby moving lateral compression elements towards said last, then moving a sole to be vulcanized to said upper towards said last, pressing the sole against the upper, prevulcanizing the sole at a first predetermined pressure for a predetermined period of time to prevulcanize the material and bring about a closure of the joints between said upper and the sole, increasing the pressure utilized for prevulcanizing to a substantially higher pressure and vulcanizing said sole under the substantially higher pressure for a period of time greater than that utilized for prevulcanizing the sole and subsequently again oscillating said last to return said compression elements to original position.

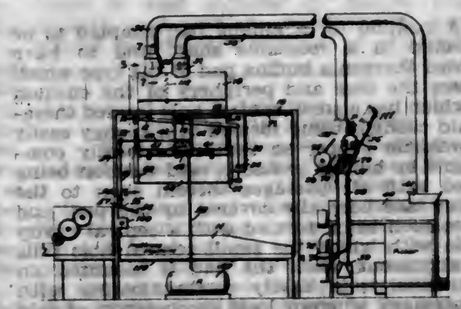
2,650,391

WEIGHING SCALE

Jack L. Metcalfe and Thomas O. Metcalfe, Bluefield, Va.

Application June 13, 1947, Serial No. 754,468

1 Claim. (Cl. 19—69)



An apparatus of the character described comprising a frame, a scale supported by said frame and having a scale arm, a hopper carried by said scale, a picker machine, a feed pipe interconnecting the picker and the hopper and adapted to feed cotton from said picker to said hopper, a valve in said feed pipe, and automatic means for operating the valve to stop the flow of cotton to the hopper when a predetermined weight of cotton has been received therein, said means comprising a switch operable by the movement of the scale arm, a gear connected to and movable with said valve, a reversible electric motor for moving said gear, two individually operable reversing switches for said motor, a pair of reversely gravity operated control switches carried by the gear and each adapted to control an electrical circuit including one of the reversing switches, a push button switch for starting the flow of cotton to the hopper, and electrical circuit including said push button switch, one of said control switches and one of said reversing switches, and an electrical circuit including said switch operable by the scale arm, the other of said control switches and the other of said reversing switches.

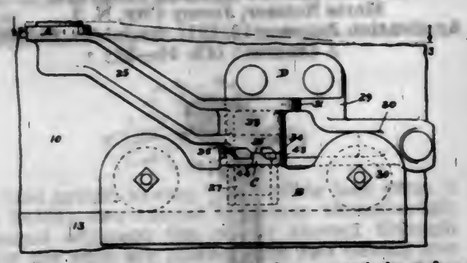
2,650,392

THROWOUT CRANK ARM FOR SLIDING DOORS

Stacy B. Haseltine, La Grange, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware

Application May 6, 1948, Serial No. 25,493

2 Claims. (Cl. 20—23)



1. In a door construction for a container having a wall provided with a door opening and a sliding door for closing said opening, the combination with guide means on said container wall extending lengthwise of the same; of a carrier slidable on said guide means; a crank member supporting said door on the carrier, said crank member being swingable in reverse directions to move said door laterally into and out of the door opening; upper and lower cam lugs fixed to said wall; and upper and lower, radially projecting cam fingers on said crank member, one of said fingers being engageable with one of said cam lugs in sliding movement of the door in one direction for swinging the crank member inwardly, and the other of said fingers being engageable with the other of said lugs in sliding movement of the door in a reverse direction for swinging said crank member outwardly.

2,650,393

SCREEN STRUCTURE

Olgar G. Coward, Beaumont, Tex., assignor to Alumalath Corporation of Texas, Beaumont, Tex., a corporation

Application September 23, 1948, Serial No. 50,635

1 Claim. (Cl. 20—57.5)

An awning assembly comprising, a plurality of substantially parallel extending, substantially straight runners having the outer edge faces thereof notched to form longitudinally and uniformly spaced apart, transversely extending members with converging, substantially straight sides outwardly and downwardly extending, and with a toe upstanding from the upper side adjacent the convergence of said sides so that the toe piece and the upper side form a lower notch and the convergence of the upper side and lower side of the adjacent member thereabove form an upper notch, said lower notches being uniformly dimensioned and said upper notches being uniformly dimensioned whereby the lower notches uniformly overlie the upper notches adjacent thereto therebelow, means for pivotally connecting the heads of said runners to an upright structure, a plurality of pliable, substan-



tially uniform width slats of greater width than the length of the upper side of a member, said slats being adapted to have their upper sides inserted into the aligned upper notches of said runners and to be bent arcuately transversely so that their lower sides may be sprung into the aligned lower notches of said runners immediately therebelow, and means pivotally connected on at least one end and connected at one end to at least one of said runners and at the other end to said upright and adapted to space said runners in a plurality of spaced distances from said upright.

2,650,394

LIGHT CONTROL AND VENTILATED AWNING

Albert J. Weaver, San Antonio, Tex.

Application December 28, 1950, Serial No. 203,100

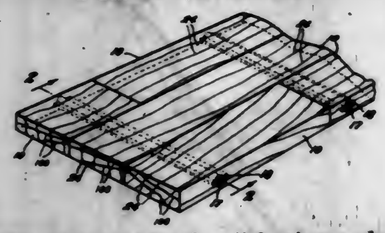
1 Claim. (Cl. 20—57.5)



A ventilated metallic awning comprising a frame, spaced stationary panels mounted within the frame, flanges disposed longitudinally of the side edges of said stationary flanges rising from the stationary panels, vertically movable panels mounted within the frame above the stationary panels, an operating rod disposed transversely of the frame at one end thereof, means for pivotally mounting the operating rod on said stationary panels, U-shaped links secured to the rod, means

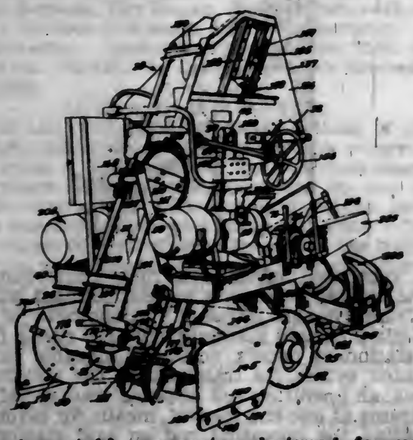
for pivotally connecting the U-shaped links to the movable panels at one of the respective ends thereof, U-shaped members connecting opposite ends of the movable panels to said frame, whereby rotation of said operating rod in one direction lowers the movable panels into contact with the flanges of the stationary panels providing a watertight fit between the stationary panels and movable panels.

2,650,395
STRUCTURAL WOOD UNIT
Philip de Anguera, Cincinnati, Ohio, assignor to Eva de Anguera, Cincinnati, Ohio
Application December 16, 1948, Serial No. 65,657
1 Claim. (Cl. 20—91)



A composite structural unit having a plurality of elongate wood boards disposed in parallel rows and assembled in the rows in end to end abutment, the predominant number of said boards having their individual grains disposed substantially normal to the major faces of the unit and all of said boards having the longitudinal extent of their medullary rays disposed substantially lengthwise in the unit, a number of longitudinally spaced bores of uniform diameters formed transversely through the assembled boards, and a thin connector key extending through the central portion of each bore and having its sides wedged into the material of the wood on diametrically opposed sides of the board that lie in a line substantially normal to the grains of the boards.

2,650,396
SAND HANDLING APPARATUS
George J. Keren, Chicago, Ill., assignor to Pettibone Mulliken Corporation, Chicago, Ill., a corporation of Delaware
Application April 8, 1949, Serial No. 86,342
14 Claims. (Cl. 22—89)



1. A portable apparatus designed for use in handling and conditioning sand in a foundry and comprising a horizontally elongated wheel-equipped frame structure, sand accumulating and elevating means mounted on the front end of the frame structure, a rotary power driven magnetic separator supported in an elevated position over the rear end of the frame structure, arranged to receive sand from said means and operative, when driven, to separate metallic scrap from the sand that is delivered thereto, and a self-contained sand screening, aerating and discharging unit disposed beneath, and adapted to receive sand from, the separator, consisting of a gyratory screen, a blade equipped rotor beneath the screen, a housing around the rotor and with a vertically tiltable laterally extending spout for discharging the sand in loose stream form, and a motor for gyrating the screen and driving the rotor, and having coacting elements between its lower portion and the subjacent portion of the rear end of the frame structure whereby it is mounted so that it is capable of being rotated bodily back and forth about a vertical axis in order to position the discharge spout so that it faces rearwards or to either side of the frame structure and controls the stream of sand to form a pile when the apparatus is stationary or to form a windrow in connection with propulsion of the apparatus.

2,650,397
CLASP PIN EYEGLASS HOLDER
Marie Nemser, Jersey City, N. J.
Application January 19, 1951, Serial No. 206,862
3 Claims. (Cl. 24—3)



1. A device for securing a pair of spectacles on a garment, which comprises a rear plate member, a flexible mesh strap secured to said plate member, a loop member secured to the lower end of said plate member, said strap passing through said loop member, a detent plate fixed in said loop member and having a free end bent to arch said strap immediately below said loop member, said strap being held against said loop member, and a decorative binder on the end of the strap to prevent disengagement of the strap from the loop member.

2,650,398
SEPARABLE CATCH FOR NECKLACES AND THE LIKE
Ralph C. Bangs, Providence, R. I., assignor to Cero, Inc., a corporation of Rhode Island
Application July 28, 1948, Serial No. 41,982
1 Claim. (Cl. 24—116)

A length adjustment catch for necklaces and the like, having separable catch and latch members, each member having a base, an upstanding flange on one end of said base, pivot means on the other end of said base, an open end housing on the rear portion of said base adjacent to said pivot means, and a hollow cover pivotally attached to said pivot means and extending over said base and said housing and releasably engaging said flange when moved to closed position, said flange and the contiguous end of the cover having slots which align when the cover is in closed position, said latch member including a latch element having a plate portion secured in the latch member housing and a spring element integral with the plate portion and extending outwardly from the base



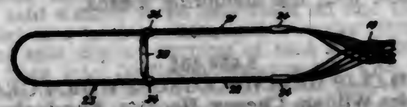
of the latch member and adapted to slide into the housing of the catch member and snap close therein, the pivot means of the catch and latch members being adjacent to each other, whereby the ends of a bead necklace may be length adjustably set in the catch and latch member bases with the necklace cord seated within the aligned flange and cover slots.

2,650,399
KNOT RETAINER
Eileen Terelli, Los Angeles, Calif., assignor of one-half to Armand Hugo Terelli, Los Angeles, Calif.
Application August 3, 1951, Serial No. 240,201
1 Claim. (Cl. 24—117)



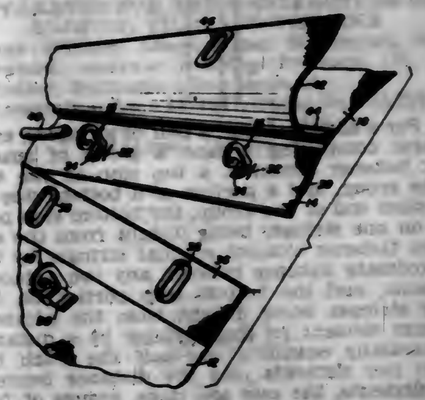
A tied article having two flexible lace ends, a disc having two spaced apertures therethrough arranged adjacent the center thereof through which the ends are passed, said disc having two spaced recesses on its marginal edge extending transversely across the edge of the disc in straddling relation to the apertures through which the ends are respectively drawn onto the reverse side of the disc and brought together and tied over the entering portions of the lace ends.

2,650,400
INTERWOVEN MESH TYPE CABLE GRIP
David Loyal Kellems, Mystic, Conn., assignor to Kellems Company, Stonington, Conn., a partnership
Application February 1, 1950, Serial No. 141,673
13 Claims. (Cl. 24—123)



1. In a gripping device of the character described, a plurality of wire strands interwoven to form an open mesh body portion adapted to be placed in surrounding gripping relation with an article, said body portion having extension strands at one end thereof divided into spaced groups to form a flexible, elongated draft loop of predetermined size and providing a complete means for attaching said mesh body with an article gripped thereby to a holding device and for supporting the same on the latter, and a cinching member bridging the branches of said draft loop and slidably mounted on both of said branches intermediate the outer end of such loop and said body portion, said cinching member comprising a pair of tube-like portions each slidably mounted on a branch of said draft loop and an intermediate bridge part supporting said tube-like portions in spaced relation, said cinching member being adjustable outwardly on said branches to provide an outer, reduced, draft loop portion by which the device may be secured to a holding device and to hold the portions of the branches between the tube-like portions of said member and said body portion in such spaced relation as to provide an opening in said draft loop between said member and said body portion through which the article being gripped may extend, said tube-like portions being composed of a material as to enable such portions to be adjustably clinched in position on said branches to fix the size of said outer, reduced draft loop portion and the opening formed by said clinching member, branch portions and body portion, and said bridge part having sufficient rigidity to enable said member to maintain said draft loop branches in spaced relation under the applied forces and being of such length that the branch portions of the draft loop between said member and said body portion are maintained in such spaced relation as to distribute the strains exerted on the gripping device equally upon the strands throughout the area of the grip body.

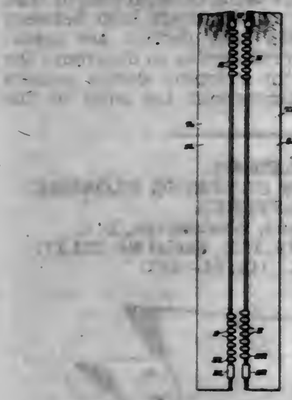
2,650,401
WEATHERPROOF COVERING CLOSURE FASTENER
John R. La Mond, Washington, D. C.
Application April 16, 1951, Serial No. 221,177
1 Claim. (Cl. 24—203)



In covering of the type described, the combination of a first flexible sheet having an edge portion doubled outwardly upon itself to provide superposed inner and outer layers, the outer layer being provided with an elongated opening having its longitudinal axis at right angles to the doubled edge of the first sheet, a rigid fastener member comprising an elongated base, an inverted J-shaped hook extending upwardly from one end of said base and overlying the same in spaced relation, an enlarged head provided at the free extremity of said hook; and an upstanding detent provided at the other end of the base and spaced from said head to afford a passage connecting with the inside of the hook, the base of said hook being provided with a transverse slot and disposed between the inner and outer layers of the first sheet, a tape secured between said inner and outer layers and extending

through said slot to sustain the fastener member in position, said hook and said detent projecting outwardly through said opening above the outer surface of the outer layer, a second sheet superposed on the doubled edge portion of the first sheet and provided with an elongated eye having said hook and said detent projecting outwardly therethrough, and an elongated flexible fastening element extending through said hook exteriorly of the second sheet, said element being greater in thickness than the width of said passage but being flexibly compressible for lateral insertion and withdrawal therethrough.

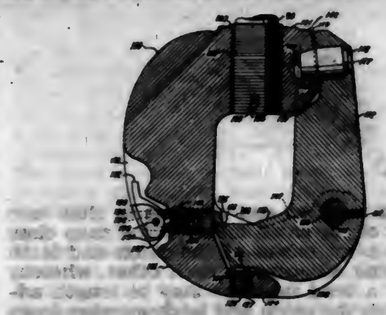
2,650,402
PLASTIC SLIDE FASTENER
Joseph N. Kuzmick, Clifton, N. J., assignor to Conmar Products Corporation, Newark, N. J., a corporation of New Jersey
Continuation of application Serial No. 510,575, November 17, 1943. This application August 25, 1947, Serial No. 770,471
6 Claims. (Cl. 24—205.11)



1. For a slide fastener, a pair of stringers, each stringer comprising a tape, a group of spaced slide fastener elements, a top stop at one end of the group, and a portion of a bottom stop at the other end of the group, the bottom stop portion on one stringer being distant from the adjacent fastener element on that stringer by the approximate distance between any two adjacent elements, and the bottom stop portion on the other stringer being distant from the adjacent fastener element on that stringer by a distance substantially equalling one-half the pitch between two elements plus the distance between two elements, the said top stops, groups of fastener elements and bottom stop portions being molded onto their respective tapes.

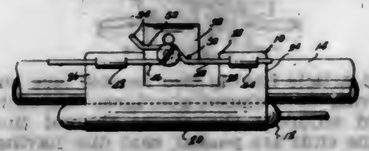
2,650,403
HOISTING HOOK WITH A PIVOTED CLOSURE
Raymond G. Taylor, Jr., Arthur B. McElroy, and Roy C. Davis, Dallas, Tex., assignors to The Guiberson Corporation, Dallas, Tex., a corporation of Delaware
Application January 19, 1948, Serial No. 3,006
4 Claims. (Cl. 24—242)

1. In load-supporting oil field hook equipment, a hook head; an arm rigidly depending from such head, such arm having a downwardly and laterally disposed leg which is further extended upwardly and laterally, said leg being bifurcated; a movable link having a downwardly and laterally disposed extension passing into the recess of said bifurcation; a pin carried in the outer end of the bifurcated leg, whereby the link is pivotally mounted; a frusto-conical finger extending laterally from the upper end of the link; a frusto-conical recess arranged in the head to receive the finger; a latch arranged within the



arm and provided with a lip extendable into the recess of the bifurcation, whereby the said extension of the link may be releasably secured within such recess; and an adjustable bridge carried in the base of the rigid arm, whereby the said extension of the link may be supportably engaged.

2,650,404
ADJUSTABLE CLAMP
Albert J. Dalpiaz, Dennison, Ohio
Application May 11, 1951, Serial No. 225,797
5 Claims. (Cl. 24—243)



1. An elongated U-shaped clamp comprising a bight, a pair of side sections projecting from said bight, one of said side sections having an opening extending inwardly from the free end intermediate the sides thereof, an arm arranged longitudinally of the other one of said sections and having one end secured to the free end of said other section, said arm being in alignment with said opening, anchoring means arranged in opposed relation with respect to said arm and supported on said one section for longitudinal sliding movement therealong and for pivotal movement toward and away from said arm, and fastening means loosely and adjustably carried by said arm and positioned in said opening end engageable with the anchoring means.

2,650,405
BAND CLIP HAVING CLOSING WORM GEAR
Charles William Cheney, Heckley, Birmingham, England
Application March 23, 1951, Serial No. 217,215
In Great Britain March 28, 1950
2 Claims. (Cl. 24—274)

1. A band clip of the class described, comprising: a circular band member having uniformly spaced depressions formed therein to provide teeth on an external surface, adjacent to one end portion thereof; an open ended tubular housing mounted on the other end portion of said band member and spaced therefrom to permit passage of said toothed end portion therebetween; a worm member rotatably and tiltably mounted in

said housing for engagement with said teeth, said worm member having a head portion external to said housing; and a radially movable abutment washer laterally engageable by said worm and interposed between said housing and said head portion, said washer being engageable with said



toothed end portion while providing clearance for said teeth, whereby tightening of said clip by turning of said worm forces said abutment washer into frictional engagement with said toothed end portion, said radial movement being caused, at least in part, by tilting of said worm.

2,650,406
WORM GEARED BAND CLIP
Charles William Cheney, Heckley, Birmingham, England
Application June 7, 1952, Serial No. 292,242
In Great Britain March 28, 1950
2 Claims. (Cl. 24—274)



1. A band clip of the class described, comprising: a circular band member having uniformly spaced depressions formed therein to provide teeth on an external surface adjacent to one end portion thereof; and open ended tubular housing mounted on the other end portion of said band member and spaced therefrom to permit passage of said end portion therebetween; a worm member rotatably and tiltably mounted in said housing for engagement with said teeth, said worm member having a head portion external to said housing and a neck portion of reduced diameter external to said housing and adjacent to said head portion; and a radially movable abutment washer mounted on and laterally engaging said neck portion said washer being interposed between said housing and said head portion and having a divided base engageable with said toothed end portion while providing clearance for said teeth, whereby said divided base, when opened, permits said washer to be assembled on and closed around said neck portion, and whereby tightening of said clip by turning of said worm forces said base into frictional engagement with said toothed end portion by radial movement of said washer, said radial movement being caused, at least in part, by tilting of said worm.

2,650,407
WORM GEARED BAND CLIP
Charles William Cheney, Heckley, Birmingham, England
Application June 7, 1952, Serial No. 292,243
In Great Britain March 28, 1950
2 Claims. (Cl. 24—274)

1. A band clip of the class described, comprising: a circular band member having uniformly spaced depressions formed therein to provide teeth on an external surface adjacent to one end portion thereof; an open ended tubular housing mounted on the other end portion of said band member and spaced therefrom to permit passage of said end portion therebetween; a worm member rotatably and tiltably mounted in said housing for engagement with said teeth, said worm member having a head portion external to said housing and a neck portion of reduced diameter external to said housing and adjacent to said head portion; and a radially movable abutment washer mounted on and laterally en-



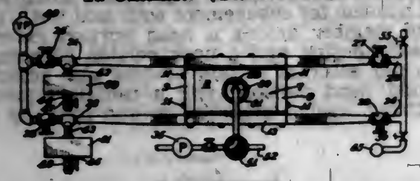
gaging said neck portion, said washer being interposed between said housing and said head portion, said washer having a divided crown and a solid base engageable with said toothed end portion while providing clearance for said teeth, whereby said divided crown, when opened, permits said washer to be assembled on and closed around said neck portion, and whereby tightening of said clip by turning of said worm forces said base into frictional engagement with said toothed end portion by radial movement of said washer, said radial movement being caused, at least in part, by tilting of said worm.

2,650,408
APPARATUS FOR THE MANUFACTURE OF ROOFING TILES AND THE LIKE
George William Albert Agar, Wellington, New Zealand, assignor to Atlas Products (N. Z.) Limited, Wellington, New Zealand
Application June 24, 1947, Serial No. 756,776
In Australia July 3, 1946
6 Claims. (Cl. 25—43)



5. Apparatus for making articles from cementitious like plastic materials, comprising means for conveying a layer of the material in plastic state, a pressure roller mounted above said conveyor for reciprocatory movement at a substantially uniform level longitudinally of said conveyor, a movable support above said layer, a scraper carried by said support transversely of the path of the layer and at the feed side of said pressure roller, a driven cam for reciprocating said pressure roller, gearing driven with said cam for moving said support to move said scraper through an oscillatory path away from the pressure roller in synchronism with reciprocation of said roller and substantially at the relative level of the pressure roller to remove excess material, and means for adjustably securing said scraper to said support to vary the height of said scraper relative to the layer.

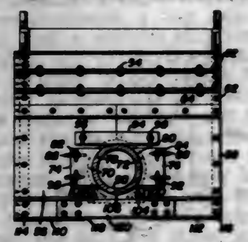
2,650,409
PROCESS AND APPARATUS FOR MOLDING CONCRETE PRODUCTS
Carbon C. Dubbs, Orange, Calif.
Application October 26, 1949, Serial No. 123,656
11 Claims. (Cl. 25—118)



1. The method of molding a concrete product which comprises, placing a relatively fluid concrete mix within a closed mold, expanding a resilient imperforate surface by fluid pressure within the mix whereby the mix is compressed and conformed to the inner surfaces of the mold and excess water is forced out of the mix and the mold, and then while said mix is still subjected to internal pressure directing a blast of compressible fluid parallel to and into contact with an outer surface of the concrete mix to remove excess water from said outer surface.

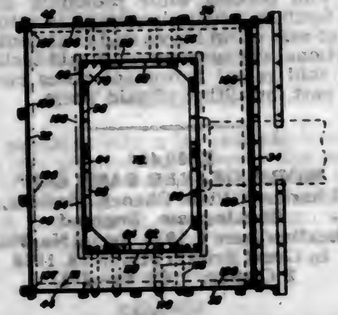
4. In an apparatus for molding a concrete product, a closed mold to enclose a relatively fluid concrete mix, an imperforate expansible member disposed within said mold to compress and remove excess water from said mix, means defining a chamber within said mold adjacent the surfaces of the mix to receive excess water squeezed from said mix, and means to produce a blast of gas through said chamber to remove excess water from the adjacent outside surface of the concrete mix.

2,650,410
MOLD FORM
William E. Mitchell, Altoona, Pa.
Application January 18, 1952, Serial No. 267,044
10 Claims. (Cl. 25—118)



1. A form for a concrete inlet comprising an outer form including a rear wall composed of channel members detachably secured in edge to edge relation and disposed in horizontal position, a pair of side walls composed of channel members detachably secured in edge to edge relation and disposed in vertical position, said horizontal members being detachably secured to the edges of the corner vertical channels of said side walls, a front wall composed of a plurality of channel members detachably connected in edge to edge relation, a pair of plates detachably secured to the edge of one of said channel members, said channel members and said plates being detachably secured to the edge of the front corner channels of said side walls, an inner form including a pair of side walls composed of vertically disposed channel members detachably secured in edge to edge relation, corner members composed of angulated channel members, front and back plates detachably secured to said corner channels, supporting beams detachably secured to said front and rear plates substantially in the planes of the upper edges of said plates, means for detachably securing said beams to said side walls of said outer form whereby bulging of said outer form walls is substantially prevented.

2,650,411
MOLD FOR HEAD WALL CONSTRUCTION
William E. Mitchell, Altoona, Pa.
Application December 5, 1950, Serial No. 199,293
5 Claims. (Cl. 25—131)



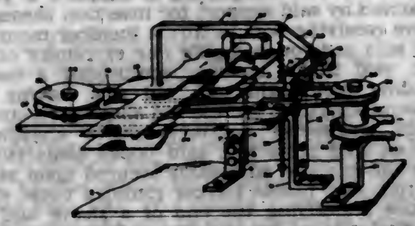
4. A mold for head and end wall construction comprising a rectangular outer mold having a front and back wall and side walls, said side and back walls being constructed of vertically arranged channel members, the web portions of said channels forming the inner surface of said walls, the flanges of said channel members being detachably secured together to provide a wall panel, angle members detachably secured to the channel flanges at the corners for rigidly connecting said side and back walls, said back wall and the side channel members adjacent the back wall being of greater height than the remaining channel members of the side wall, a transverse channel member having one flange resting on the side walls, the web side of said transverse channel member being detachably connected to said side channel member of greater heights, said front wall including a plurality of panels, angle members secured at the edge of said panels, fastening means securing said panels together and to said side walls, an inner mold, having walls substantially parallel to said outer mold walls, said walls of said inner mold being composed of vertically extending channel members, the flanges of said channels extending inwardly and being secured together to provide wall panels, corner angles secured to said wall panels and rigidly joining said panels together, the rear wall of said inner mold being rigidly secured in parallel relation to said transverse channel to form the front mold of the rear portion of the head wall, a second transverse channel member extending across the side walls and detachably secured thereto, the front wall of said inner mold being secured to said second transverse channel, an arcuate concave guide surface placed between the side walls of the inner and outer molds, spacer members positioned between side walls of said inner and outer molds above said arcuate guide surfaces, and means extending through said spaced members, detachably securing said inner and outer molds together, said guide surfaces being wedge shaped in cross section and adjustably secured to the surface of said inner and outer molds.

2,650,412
METHOD OF MOLDING CONCRETE PRODUCTS
Carbon Chatley Dubbs, Orange, Calif.
Application October 17, 1949, Serial No. 121,802
3 Claims. (Cl. 25—155)



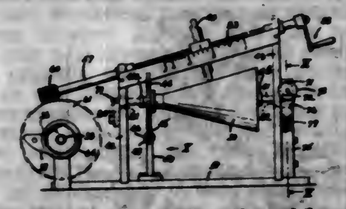
1. The method of molding a concrete product which comprises introducing a relatively liquid concrete mix containing cement, aggregate and a liquid into a closed mold, said mix in the mold being relatively flowable and carrying occluded and dissolved air uniformly distributed throughout its mass, applying pressure by means of a fluid interiorly of the mix in the mold to move the solid components of the mix into substantial contiguity to compact and densify the mix within the mold and to position said mix against all the surfaces of the mold and to expel liquid from the mix at a surface of the mix, maintaining said fluid out of contact with said mix, and establishing a sub-atmospheric pressure upon a surface of the mix while maintaining the application of said fluid pressure to remove said uniformly distributed air in company with entrained liquid which was not removed from the interstices between the substantially contiguous components of the mix by said fluid pressure applied to the mix.

2,650,413
APPARATUS FOR UNCURLING FABRIC EDGES
John H. Pope, Hopewell, and Nelson W. Carter, Petersburg, Va., assignors to Celanese Corporation of America, a corporation of Delaware
Application June 22, 1948, Serial No. 34,474
3 Claims. (Cl. 26—1)



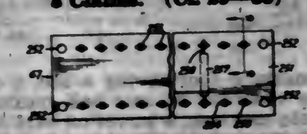
3. Apparatus for uncurling the edges of a fabric comprising an upper uncurling plate having a flat surface, a lower uncurling plate having a flat surface spaced from and generally parallel to the flat surface of said upper uncurling plate, said uncurling plates being adapted to guide the curled edges between them, one end of said lower uncurling plate being bent at an angle away from said other uncurling plate to present a smooth bearing surface to a fabric, an adjustable mounting carrying said lower uncurling plate for permitting vertical movement thereof, a pivotal mounting for the upper uncurling plate, a spring for urging the upper uncurling plate toward the lower uncurling plate, adjustable stop means limiting the motion of the upper uncurling plate, and a driven endless, beltlike uncurling member of circular cross-section passing between said uncurling plates to frictionally engage and uncurl the fabric edges.

2,650,414
CONTROL DEVICE
William H. Kreamer, Roanoke, Va., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application June 9, 1949, Serial No. 98,140
9 Claims. (Cl. 28—71.5)



1. In combination with a thread-handling machine, such as a covering, twisting, or winding machine, having a reciprocating element, means for passing a thread or the like longitudinally through a path with respect to the machine, and means for varying the speed of passage of the thread through said path, a device for controlling the speed-varying means comprising a pair of rotatable friction drive members, at least one of said members having a friction surface comprising circles of different radii, ratchet means for driving one of the members intermittently, means for selectively engaging and disengaging the members, means for moving said members relatively in a direction transverse of said circles, and a reciprocable pawl engaging with the ratchet means and arranged in the way of the reciprocating element.

2,650,415
TERMINAL CARD MANUFACTURING MACHINE
Rufus M. Kingman, Palo Alto, Calif., assignor to Hewlett-Packard Company, Palo Alto, Calif., a corporation of California
Application November 27, 1948, Serial No. 62,268
8 Claims. (Cl. 29—33)

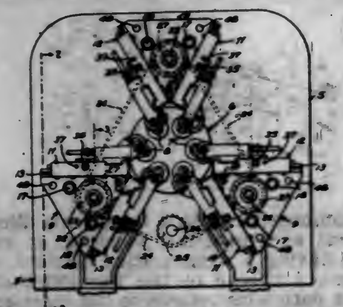


8. In a machine for forming a card and metal terminal post assembly, a carriage serving to support a card, means serving to advance the carriage step by step into the machine, means for feeding a metal ribbon step by step to the machine, means for successively punching spaced holes in the card, means for actuating said punching means in synchronism with said feeding movements of the carriage, means for forming posts from said ribbon, means for thrusting the posts into the openings of the card, and means for upsetting that portion of the post extending beyond the back side of the card.

2,650,416
MACHINE TOOL
Donald H. Montgomery, West Hartford, Conn., assignor to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut
Application June 18, 1948, Serial No. 33,850
20 Claims. (Cl. 29—37)

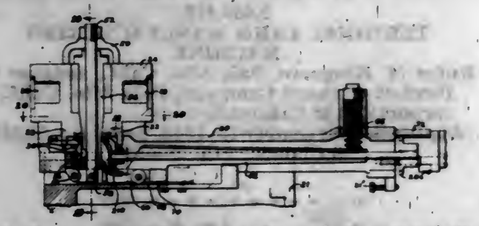
1. In a machine of the character indicated, a forming bracket at the front side of a machine frame, two forming slides carried by said bracket

for carrying forming tools, said bracket having a chamber therein, the chamber having an open end facing away from the front side of the machine, a shaft extending longitudinally into and projecting toward the open end of said chamber, two disk forming cams in said chamber and carried by said shaft, separate cam-follower



means for said cams for feeding said forming slides, the open end of said chamber being of a size to permit the longitudinal insertion and withdrawal of said cams on said shaft, and a cover at the outside of said opening, whereby separate cams for separate slides may be inserted, removed, or adjusted upon a single operation at a single location.

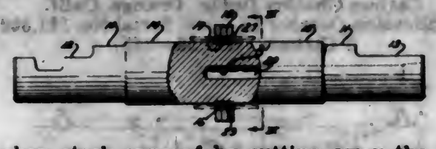
2,650,417
TURRET LATHE
John Hart Wilson, Wichita Falls, Tex.
Application June 5, 1947, Serial No. 752,588
2 Claims. (Cl. 29—50)



1. In a machine tool having a bed, a carriage reciprocably mounted on said bed, means to reciprocate said carriage, a turret on said carriage, a pivot bolt passing axially through said turret to rotatably support said turret on said carriage, means to rotate said turret, a clamp member on one end of said bolt, a lever pivoted at one end to said carriage, a spring between said carriage and the other end of said lever said other end of said bolt being pivotally attached between the two ends of said lever, said spring acting to press the lever away from said turret to draw the clamp and the bolt against the turret to thereby clamp the turret to the carriage, a wedge shaped cam on said bed, a roller mounted on said lever between the spring and bolt connection, said roller adapted to engage said cam when said carriage is reciprocated to thereby raise said lever to unclamp said turret.

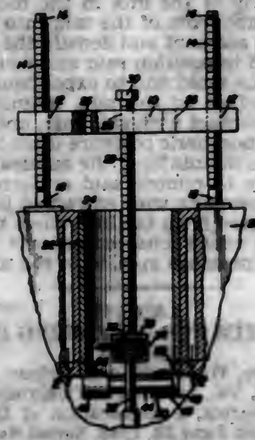
2,650,418
METHOD OF MAKING COLLARED SHAFTS
Clelia A. Matheny, Peoria, and William J. Myers, Eureka, Ill., assignors to Caterpillar Tractor Co., Peoria, Ill., a corporation of California
Application March 31, 1949, Serial No. 84,594
4 Claims. (Cl. 29—148)

1. The method of making a hardened collar for a shaft which comprises, surface carburizing a collar like blank of low carbon material having spaced lugs thereon, cutting away said lugs, then cutting the blank through the low



carbon stock exposed by cutting away the lugs to form segments, and then welding the segments together about a shaft at their exposed low carbon portions.

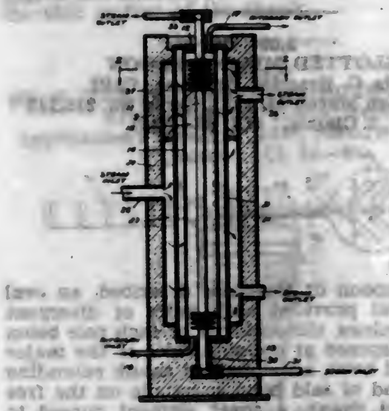
2,650,419
SLEEVE PULLER
Alfred A. Barbisch, Port Angeles, Wash.
Application April 28, 1950, Serial No. 158,741
1 Claim. (Cl. 29—266)



A sleeve puller comprising a support, a pull rod carried by said support for insertion through a sleeve receiving bore, a thrust member mounted on said rod for engaging one extremity of a sleeve, said thrust member comprising a body depending from said pull rod and having a transverse aperture, a cross rod slidably received in said transverse aperture, sleeve engaging hooks on said cross rod, said hooks comprising blocks slidably and adjustably secured upon said cross rod, said blocks having rounded outer extremities underlying the end of a sleeve and a flat thrust surface for abutting engagement with the end of a sleeve, said blocks having guide brackets adjustably mounted thereon, said brackets having upstanding arcuate flanges for engaging the inside surface of a sleeve.

2,650,420
METHOD AND APPARATUS FOR BRAZING ALUMINUM FINS TO STEEL TUBES
Charles H. True, Chicago, Ill., assignor to Combustion Engineering, Inc., a corporation of Delaware
Application December 10, 1946, Serial No. 715,199
10 Claims. (Cl. 29—368)

1. The method of brazing metallic fins to a metallic tube which comprises applying a brazing flux to the surfaces to be bonded, mounting the fins on the tube and applying brazing material; surrounding the portion of the tube carrying the fins with a gaseous atmosphere; and heating said gaseous atmosphere to a high temperature approaching the brazing temperature while simultaneously circulating a fluid heated to the brazing temperature through the interior of said tube.



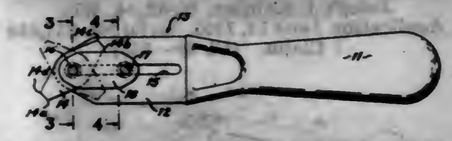
5. Apparatus for brazing metallic fins to a metallic tube comprising a closed oven; means for supporting a tube having fins mounted thereon within said oven with end portions of tube projecting therefrom, means for heating the atmosphere within said oven to a high temperature approaching the brazing temperature for imparting heat to the exterior of said tube and the fins thereon; and means connected to the ends of said tube for circulating a heated fluid therethrough for heating the tube to the brazing temperature from the inside thereof.

2,650,421
TRIMMING COMB
Herman Leslie Wietzel, Dayton, Ohio
Application November 1, 1948, Serial No. 57,703
1 Claim. (Cl. 30—30)



A hair-trimming comb, comprising a comb body having an integral one-piece back part with teeth extending from one edge thereof, an elongated handle extending outwardly from one end of said back part and having a recessed portion therein, said one end of said back part being releasably secured in said recess, said back part having a first channel extending inwardly thereof from the edge opposite to that having said teeth, said channel being open along the said opposite edge the full length of said channel, a second channel in said back part of narrower width than said first channel and extending inwardly of said back part from the bottom of said first channel whereby to form a shoulder at the bottom of said first channel and extending into said teeth partially through the length thereof, a channel-shaped cap member positioned on the said opposite edge of said back part and extending substantially along the full length thereof for closing the open side of said first channel, said channels receiving a trimming blade having a wide portion positioned in said first channel and a narrow cutting blade positioned in said second channel, a longitudinally extending slot in one side of said back part parallel to the said opposite edge, said slot connecting with said first channel and said recess and extending substantially along the full length of said channel, an ejector member slidably positioned in said slot and comprising a neck portion in said slot, a first enlargement at one end of said neck portion and being positioned in said first channel, said enlargement abutting against one end of said trimming blade positioned therein and slidable in the said first channel to fully eject the trimming blade from said channels, a second enlargement at the opposite end of said neck portion positioned on the outside of said back part and manually engageable for slidably operating said ejector member, said ejector member resting in said recessed portion when said blade is positioned in said channels, and a locking pin removably positioned in an opening in said back part at the opposite end of said first channel to retain a trimming blade in the said channels.

2,650,422
ROOFING KNIFE HAVING A REVERSIBLE AND RETRACTABLE BLADE
John F. Seltow, North Royalton, and Anthony W. Kezie, Brooklyn Village, Ohio
Application June 22, 1951, Serial No. 233,086
1 Claim. (Cl. 30—154)

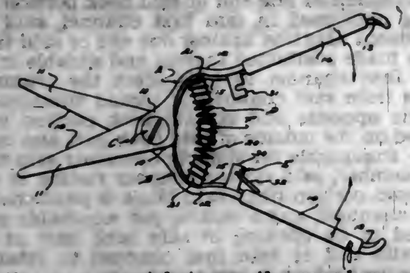


A roofing knife comprising a handle, a blade supporting plate attached to one end of said handle, said plate having a longitudinal slot therein, a substantially diamond-shaped blade having four cutting edges, said blade having a hole through its center, and an elongated blade clamping plate having holes at each end thereof, a stud loosely mounted in said slot and said blade center hole but removably engaged in the outer hole of said clamping plate for clamping together said clamping plate and supporting plate, a second stud loosely mounted in said slot but removably engaged in the other hole of said clamping plate for clamping together said clamping plate and supporting plate, said blade being swingably retained on said first stud between said blade supporting plate and said blade clamping plate, the distance between said studs being greater than one-half the length of the blade, and a raised bead on said clamping plate inclined upwardly between said first and second stud, said raised bead slidably engaging said slot whereby said bead limits the blade swing in either direction by wedging said blade against said supporting plate when said blade is in its advanced or cutting position and whereby said bead and studs slidably engage said slot so that said blade is slidably retractable to render it inoperative to cut.

2,650,423
CLIPPER CONSTRUCTION
Dwight M. Phillips, Placentia, Calif., assignor to Cerema Clipper Company, Cerema, Calif., a corporation of California
Application March 8, 1951, Serial No. 214,455
4 Claims. (Cl. 30—261)

1. A device of the character described including, two rigid members pivotally connected together and having cooperating cutting parts and spaced handles, means normally yieldingly holding the members with the cutting parts spread apart and including opposed lugs on the members

and a helical spring between the members with its ends carried by the lugs, and a stop in the spring and held thereby between the lugs and including a resilient section adapted to retard



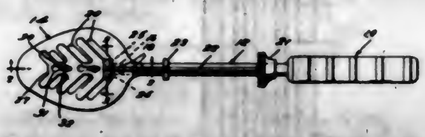
relative movement between the members as the device is operated and the cutting parts approach a fully engaged position and a rigid section positively stopping the cutting parts in a predetermined fully engaged position.

2,650,424
BUTCHER KNIFE HAVING A REMOVABLE GUARD
Joseph J. Kalmen, Medford, Wis.
Application June 14, 1951, Serial No. 231,524
1 Claim. (Cl. 30—286)



A skinning knife comprising a handle, a knife blade secured fixedly to and projecting from the forward end of said handle, the lower lengthwise edge of said blade being sharpened and providing a cutting edge, the upper edge of said blade lying in a plane below the plane of the upper side of said handle, said upper edge having a recess situated in close proximity to the forward end of said handle, said recess opening through said upper edge and providing a keeper seat, a spring-projected manually-retracted latch-bolt slidably mounted in the upper portion of said handle, said latch-bolt being in a plane above and paralleling said upper edge, projecting through and beyond said forward end and being spaced above and overhanging said keeper seat, said upper edge having an integral lug rising therefrom at a point spaced rearwardly from the forward end of said blade, said lug being hook-shaped and the beak of the hook thus provided being directed toward the forward end of said blade, and a readily attachable and detachable guard coextensive in length with the length of said blade, said guard constituting a depth gage and stop, being triangular in cross-section and having a longitudinal slot opening through forward and rearward ends and also through the apical edge, the upper half-portion and upper edge of said blade being lodged in said slot, the rearward end of said guard directly abutting the forward end of said handle and having a transverse cross-pin situated in said recess, a second pin carried by said guard, spanning said slot and releasably engaging said hook-shaped lug, the projecting end of said latch-bolt overlying the top side of said guard and retaining said first named cross-pin in said recess, the lengthwise sides of said guard converging toward the cooperating corresponding sides of said blade and the lower half-portion and cutting edge of said blade protruding beyond said slotted apical edge, whereby said cutting edge is unobstructedly and constantly visible during the cutting and skinning steps.

2,650,425
SLOTTED MIXING SPOON
Leila C. Brandel, Burbank, Calif.
Application March 13, 1951, Serial No. 215,219
2 Claims. (Cl. 30—325)



1. In a spoon of the class described, an oval shaped bowl provided with pairs of divergent slotted openings, the openings of each pair being spacedly disposed at opposite sides of the major axis of said bowl, an elongated shank extending from an end of said bowl, a handle on the free end of said shank, a cover element curved to conform to the outer surface of said bowl, said cover element comprising a longitudinal central portion and pairs of divergent fingers extending from opposite sides thereof, said fingers being normally disposed in overlying relation with respect to the said openings, an elongated actuating rod extending from the end of said cover element adjacent said shank in parallel relation to said shank, hinge connections between the adjacent ends of the rod and said cover element, a guide element for said rod mounted on said shank adjacent its point of connection with said bowl, and a collar, constituting a finger grip, mounted on the free end of said rod and slidably engaged with said shank for actuating the rod to move said cover element into and out of covering relation with respect to the said openings.

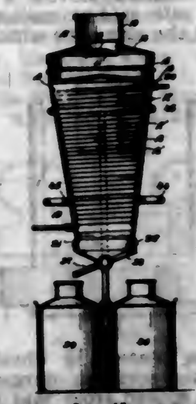
2,650,426
SCALPEL
George A. Montellus, Minneapolis, Minn.
Application June 6, 1947, Serial No. 752,877
1 Claim. (Cl. 30—339)



In an instrument of the class described, a handle having in one of its sides a longitudinally extended channel that includes an outer section and an inner section, the former being relatively deep and the latter being relatively shallow, a blade having a long shank slidably extended endwise into the channel and including an inner section and an outer section, the former being relatively thick and fitted in the deep section of the channel and the latter being relatively thin and fitted in the shallow section of the channel, the thick section of the shank at its sides having dovetail interlocking engagement with the handle, the sides of the thin section of the shank being perpendicular to the bottom of the shallow section of the channel,

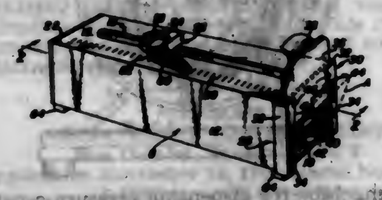
the thick section of the shank engaging the handle at the inner end of the deep section of the channel as a stop that limits the sliding movement of shank into the channel, and a beveled lock stud fixed at the bottom of the shallow section of the channel and extending into a hole in the thin section of the shank.

2,650,427
MILK COOLING AND DISTRIBUTING MEANS
Erik Mathiesen, Lyons, Nebr.
Application February 7, 1950, Serial No. 143,826
4 Claims. (Cl. 31—4)



1. In a liquid cooler the combination with a conical cooling jacket, means engaging said jacket near the bottom thereof for cooling the walls thereof, a distributor comprising a cylindrical tube supported by the cooling jacket, a plurality of small supports extending inwardly from the lower end of the cylindrical tube, a concave round plate resting on the supports of slightly less diameter than the tube so as to direct the liquid to be cooled outwardly to the inside wall of the cooling jacket, a separable strainer supported by the distributor, a separable collecting means supported by the cooling jacket at the lower end thereof, said collecting means having slots formed therein, pins secured to said jacket and engaging said slots for securing said collecting means to said jacket, and outlet means leading from said collecting means which can be tilted from one position to a second position for alternately directing the flow of cooled liquid into one of a plurality of receptacles thereunder, said outlet means comprising a fixed conduit, and a sleeve provided with pipes threaded therein, said sleeve rotatably secured on said fixed conduit.

2,650,428
BUTTER DISH WITH PAT SLICING MEANS
Robert Taylor Epperson, Ponca City, Okla.
Application January 16, 1950, Serial No. 138,512
1 Claim. (Cl. 31—30)



A sanitary refrigerator-type butter dish adapted to contain a quarter-pound print of packaged-type butter, to eject the same in a step-by-step manner and slice the ejected portion into pats of predetermined proportional sizes comprising a one-piece butter dish normally closed at one end and having a discharge opening for the ejection and cutting steps at the opposite end, a pair of spaced parallel vertically disposed guide tracks mounted on said opposite end, said guide tracks having opposed flanges in a plane with each other, the upper portions of the flanges being widened and provided with keeper notches, a closing plate slidably mounted in said guide tracks and held in place by said flanges, the lower edge of said plate having a feathered cutting edge and the vertical edge portions thereof being provided with outwardly projecting detents, said detents being releasably engageable in said keeper notches, the lower end portion of said plate being provided with a horizontally disposed rib, said rib being wedge-shaped in cross-section and being located in proximity to said feathered edge and cooperating therewith in providing a slice separating and dislodging member.

2,650,429
CURVE SCRIBER
Victor Deke, Ridgewood, N. Y.
Application June 21, 1952, Serial No. 294,223
5 Claims. (Cl. 33—30)

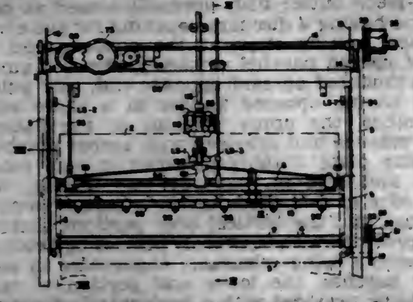


1. A curve scriber comprising: a standard including a foot having a plane lower surface adapted to rest slidably upon the surface upon which a curve is to be scribed, and a shaft fixed to said foot and extending perpendicularly therefrom; a bracket hinged to said shaft, said bracket including two parallel plates; a marking element holder slidably connected to said bracket for motion at right angles to said shaft; a marking element slidable in said marking element holder in the direction in which said shaft extends to contact the surface upon which the curve is to be scribed with its scribing end; and a looped thread adjustably connected to said marking element holder for looped connection about a plurality of location elements to determine the changing position of said marking element while scribing a curve.

2,650,430
GLASS CUTTING MACHINE
Norman H. Klages, Pittsburgh, Pa., assignor to American Window Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application February 9, 1950, Serial No. 143,281
10 Claims. (Cl. 33—33)

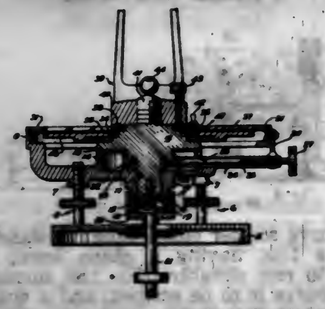
1. In a machine for making a transverse cut across a vertically rising sheet of glass, conveyor rolls for moving the sheet vertically, a cage guided for vertical movement alongside said sheet, a cutter supported on said cage and movable across said sheet, a glass measuring stop adapted to contact the advancing edge of said sheet, said stop being supported by and being capable of limited vertical movement relative to said cage, a cage lift shaft, means connecting

said cage and said shaft for raising said cage upon rotation of said shaft, driving means including a clutch for driving said cage lift shaft



from said conveyor rolls, and means dependent upon movement of said stop relative to said cage for operating said clutch.

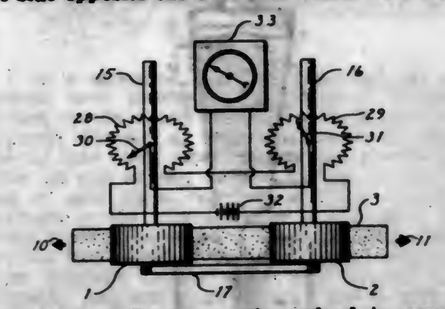
2,650,431
DEVICE FOR MEASURING HORIZONTAL AND VERTICAL ANGLES
Ezra Lee Callahan, Inglewood, Calif.
Application March 8, 1951, Serial No. 214,511
6 Claims. (Cl. 33—60)



1. In a transit instrument, a horizontal limb comprising an arc bearing a degree scale and a rise-in-twelve-inch scale, a relatively rotatable index plate coaxially related with said horizontal limb and having a radial slot, a telescope, means to pivot said telescope upon an axis coinciding with the axis of said limb and rotatably relative to the latter in a plane parallel to the plane of said scales, means carried by said plate to measure on each of said scales horizontal angles in terms of degree and rise in twelve inches formed between different lines of sight successively defined by different positions of said telescope, an indicia plate rotatably supported below said index plate and carrying circularly arranged tables showing rise in twelve inches, the corresponding angle in degrees and trigonometric functions of such angle in radial groups for reading through the slot in the index plate, and means to rotate said indicia plate either frictionally with the telescope and the index plate or independently of either.

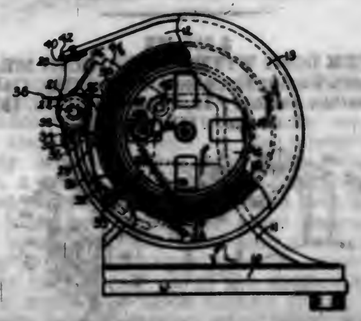
2,650,432
ROLLING CONTACT EXTENSOMETER
Charles Howard Adams, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
Application January 26, 1949, Serial No. 72,247
3 Claims. (Cl. 33—129)

1. In an apparatus of the class described including a pair of spaced loading members for elongating an extensible material suspended therebetween, means for measuring strain imparted to an extensible material suspended between said loading members on elongation of said material comprising a pair of spaced rotatable measuring wheels intermediate said loading members, said measuring wheels being in tandem alignment in a single plane perpendicular to the axes of rotation thereof and having faces engageable with said extensible material, said faces being of a width sufficient to prevent deformation of extensible material engaged thereby, a pair of bearing elements positioned, respectively, exactly opposite said faces of said measuring wheels, each of said bearing elements having a bearing surface engageable with said extensible material on the side opposite the side with which the face of



the corresponding measuring wheel is engageable, said bearing surfaces during measuring operations being spaced from said faces of said measuring wheels a distance such that the extensible material therebetween is held in non-slipping contact with said faces of said measuring wheels, said bearing surfaces being of a width sufficient to prevent deformation of extensible material engaged thereby, a measuring element for each of said measuring wheels responsive to rotational movement thereof and indicating means energizable by said measuring elements for indicating in a single place the differential movement of said measuring wheels whereby the strain of the portion of said extensible material intermediate said measuring wheels is directly measured when said extensible material is elongated by said loading members.

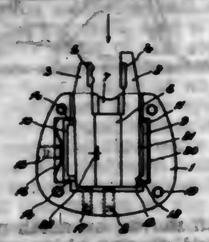
2,650,433
TAPE DISPENSING MECHANISM
Alfred P. Krueger, Stratford, Conn., assignor to Derby Scalers, Incorporated, Derby, Conn., a corporation of Connecticut
Application January 18, 1950, Serial No. 139,302
7 Claims. (Cl. 33—131)



3. A machine for dispensing pressure-sensitive tape comprising a housing, means thereon for supporting a supply roll of tape, a roller rotatably

mounted on the housing to which the tacky side of the tape adheres as it comes from the supply roll, said roller being rotated in a forward direction when the tape is drawn thereover, means to limit forward rotation of the roller comprising a flexible member connected at one end to the roller to be wound about the axis of the roller, and adjustable means to limit movement of said member, said last-named means comprising an abutment member mounted on the housing and a stop on the flexible member to engage said abutment.

2,650,434
GAUGE
Adrianus Brandt, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application November 6, 1951, Serial No. 255,018
In the Netherlands March 10, 1951
6 Claims. (Cl. 33—168)



1. A gauge comprising a U-shaped housing, two measuring beams fitted in said housing, a measuring block located in said housing between said two beams, two push members, said push members each being located between the side of each measuring beam remote from the measuring block and a wall of a leg of the housing, each of said push members having two projections thereon both of which are in contact with the aforementioned side of the measuring beam, and a screw fitted in the housing and acting against one of said push members for securing the assembly of measuring beams, measuring block and push members in said housing.

2,650,435
MULTIPURPOSE DEPTH GAUGE
Lloyd L. Kidd, Robbinsdale, Minn.
Application July 10, 1950, Serial No. 172,842
8 Claims. (Cl. 33—169)



1. A multi-purpose depth gauge comprising a relatively wide rule, a relatively narrow rule superimposed upon said first mentioned rule in free sliding and substantially parallel relation thereto, and a generally cylindrical rod of relatively small diameter superimposed upon said second mentioned rule in free sliding and substantially parallel relation thereto, and means extending through said relatively wide ruling for releasably holding said rod and said rules from relative movement therebetween.

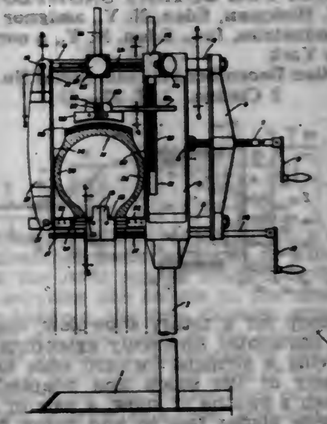
2,650,436
MICROMETER HEIGHT GAUGE
Ben Gessler, Sunnyside, N. Y.
Application November 10, 1951, Serial No. 255,785
6 Claims. (Cl. 33—170)

1. A height gauge comprising a series of superposed gauge blocks, a vertical tie rod passing therethrough, a second vertical rod spaced from said first vertical rod, an elevator block adapted to be disposed between any two of the gauge blocks, said second rod passing through a hole in said elevator block, said elevator block being permanently retained by said second rod but having an open-sided slot adapted to receive the tie



rod when the elevator block is disposed between two of the gauge blocks, the location of the second rod being such that the elevator block may be swung about the second rod away from the tie rod to a position alongside the stack of gauge blocks so that it may be raised or lowered on the second rod to a desired height and then re-inserted between appropriate gauge blocks.

2,650,437
TIRE GAUGING DEVICE
Edwin A. Glynn, Lodi, Calif., assignor to Super Mold Corporation of California, Lodi, Calif., a corporation of California
Application August 28, 1950, Serial No. 181,827
12 Claims. (Cl. 33—174)



1. A tire gauging device comprising a support, a horizontal member projecting from the support to extend through the opening of a tire transversely thereof, a pair of tire bead supporting seats mounted on the member for relative separation along the member, means included in part with the support forming a pair of relatively separable working faces upstanding from said member on opposite sides of the seats and lying in a common plane with and extending in the same direction as said seats, the seats being adapted to receive the beads of a tire having its sides confined between said working faces.

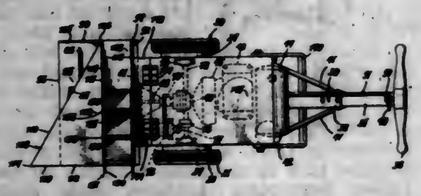
means operative to cause said relative separation of the seats and the working faces selectively, gauge means operative to indicate the spacing of said beads, other gauge means operative to indicate the spacing of the working faces, and separate gauge mounted on the device above the tire supporting seats and operative to indicate the outside circumferential diameter of the side-confined, bead adjusted tire.

2,650,438
CORRECTIVE FOOTWEAR
Hyman L. Whitman, East Bridgewater, Mass., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application January 31, 1951, Serial No. 208,690
17 Claims. (Cl. 36—76)



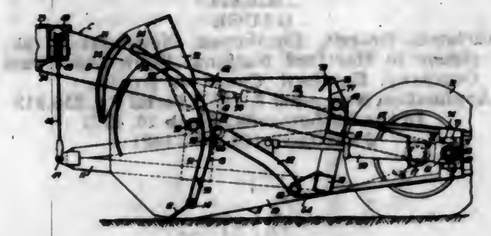
1. A unitary sole member for footwear having a ball portion, a shank portion and a heel portion, said sole member comprising a supporting element disposed on its bottom face adapted to provide support for the longitudinal arch of the foot, said supporting element comprising a heel element and a plurality of downwardly depending cleats disposed diagonally across the bottom face of said sole member and extending forwardly and outwardly from a region beneath the calcaneus of the foot to a region immediately to the rear of and beneath the head of the first metatarsal of the foot.

2,650,439
SCOOP FOR ROTARY SNOWPLOWS
Albert F. Hickman, Eden, N. Y., assignor to Hickman Industries, Inc., Eden, N. Y., a corporation of New York
Application December 21, 1946, Serial No. 717,709
2 Claims. (Cl. 37—43)



1. A scoop for a rotary snowplow, comprising a single horizontal forwardly extending bottom plate having a straight forward edge extending transversely of the scoop and adapted to cut underneath a swathe of snow, a pair of straight vertical side blades fast to and rising from the ends of said bottom blade and arranged parallel with each other and with the path of movement of the snowplow to cut the sides of said swathe of snow, conically shaped plates rigidly secured at their forward ends to the forward parts of said bottom and side blades and converging rearwardly to provide a throat through which said swathe of snow passes, and a generally vertical plate fast to and bridging said side blades and extending from the rear end of one of said side blades to the forward end of the other side blade to topple the snow above said side blades into the space between said side blades.

2,650,440
BOWL EJECTING MECHANISM FOR CARRY-TYPE SCRAPERS
Orpheus F. Quartulle, Cleveland, Ohio, assignor to Westbridge Manufacturing Company, Sunnyvale, Calif., a corporation of Nevada
Application March 21, 1949, Serial No. 82,513
2 Claims. (Cl. 37—126)



1. In an earth mover, an earth carrying bowl having a forward digging blade, wheels serving to support said bowl for traversing movement over the ground, a structure forming bottom and rear walls for the bowl and pivoted to swing upwardly and forwardly between load carrying and discharge positions, the rear wall of said structure when in load carrying position extending upwardly and inclined toward the rear of the bowl, and operating means for said structure, said operating means comprising an upstanding lever disposed to the rear of the bowl, means forming a pivotal mounting for the lower end of said lever, a roller carried by the upper end of said lever and adapted to engage the rear face of said rear wall, said roller being disposed near the upper rear edge of said structure when said structure is in load carrying position, and means for swinging said lever forwardly to thereby move such structure between load carrying and discharge positions with camming action of the roller over said rear wall.

2,650,441
LAND LEVELING MACHINE
Lawrence E. Shumaker, Denver, Colo.
Application June 7, 1948, Serial No. 31,488
9 Claims. (Cl. 37—169)



1. A land leveling device comprising: a relatively narrow medially extending, longitudinal truss member; a front supporting means supporting the forward extremity of said truss member; a rear ground-engaging member supporting the rear extremity of said truss member; a blade frame fixedly suspended below said truss member and extending transversally and outwardly beyond both sides thereof; a scraper blade positioned within said blade frame; hinge members extending forwardly from said blade to a hinged connection on the forward portion of said blade frame; a wheel crank journalled on each side of said blade frame; a ground-engaging wheel mounted on each wheel crank; and means for raising and lowering said blade in consequence of the rotation of said wheel cranks.

2,650,442
COLLAPSIBLE IRONING BOARD
Robert E. Johnson, Kingsport, Tenn.
Application January 12, 1951, Serial No. 205,729
2 Claims. (Cl. 38—105)



1. In a portable and collapsible ironing board, a frame comprising a bottom wall, sidewalls rising from said bottom wall, and a top wall secured on the upper edges of said side walls, said frame having an open end and said top wall constituting the fixed section of an ironing surface, a drawer positioned in the open end of the frame and slidably engaged with said bottom wall, said top wall, and said side walls, said drawer being arranged to be withdrawn from a closed position to extend beyond the open end of the frame with the top of the drawer in the plane of the under side of said top wall, and an extension board section hinged at one end to an end edge of said top wall, said extension section being arranged to be swung from a folded position overlying said top wall into an extended position coplanar with said top wall and resting upon the top of said drawer in a withdrawn position of the drawer.

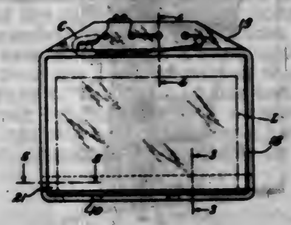
2,650,443
GATE AND REINFORCEMENT THEREFOR
Benjamin F. Trumbo, Uniontown, Ky.
Application September 20, 1950, Serial No. 185,847
1 Claim. (Cl. 39—97)



A gate composed of spaced parallel slats, and X brace at each side of the gate and secured to said slats, and reinforcing means for the center of each brace and comprising triangular shaped plates arranged in pairs in edgewise abutting relation with the opposite longitudinal edges of each member of the X brace, and fasteners connecting each plate to a pair of the X-brace members at opposite sides of the gate and said fasteners also passing through an adjacent slat.

2,650,444
DISPLAY CARD HOLDER
Elliott R. Coyle, Mentor, Ohio, and James V. Cox, Ebenezer, N. Y.; said Cox assignor to said Coyle
Application October 2, 1948, Serial No. 52,453
4 Claims. (Cl. 40—16)

4. A display card holder having a rectangular back wall of transparent elastomeric waterproof material, a rectangular front wall portion substantially shorter than said back wall and of said waterproof material and cooperating with the back wall to form a generally rectangular pocket opening upwardly of the holder, said back and front wall portions being secured together by a substantially continuous integral bond extending around the bottom and side edge portions of the said front and back wall portions, and a second rectangular front wall portion of said waterproof material cooperating with said back wall to form



a second generally rectangular pocket opening downwardly of the holder, said second pocket closing the opening of the first pocket and defining with the first front wall portion the opening of the second pocket and said second front wall portion having an edge portion overlapping an edge portion of the first front wall portion and being secured thereto by an integral bond extending upwardly of the holder from the lower edge portion of the said second front wall portion.

2,650,445
CRUCIFIX FOR ROSARIES, NECK CHAINS, OR THE LIKE
Horace Randall, Pawtucket, R. I., assignor to The H. M. H. Co., a corporation of South Dakota
Application April 29, 1950, Serial No. 159,006
2 Claims. (Cl. 41—10)

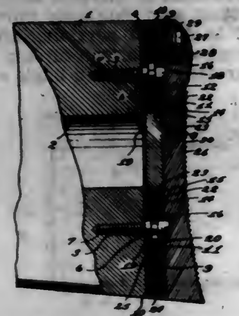


1. An ornament comprising a cross, a corpus with out-stretched arms, pins one of which extends from the lower part of the corpus through the cross securing the corpus to the cross and a member between the two through which the pin through the lower part of the corpus passes said member extending lengthwise of the corpus upwardly to a point above the head of the corpus with a curved upper end located back of the head of the corpus to serve as a halo, and lugs on the member at a point above the said pin extending rearwardly on either side of the cross to prevent swinging of the member about the pin.

2,650,446
RECOIL PAD
Norman A. Bivens, North Hollywood, Calif.
Application October 9, 1951, Serial No. 250,473
6 Claims. (Cl. 42—74)

1. In a recoil pad for attachment to a gun stock, a pad base proportioned to overlie the end face of a stock; a lock plate movably mounted in said base; means yieldably biasing said lock

plate to one position within the base; means for shifting said plate to another position within the base against the action of the first-named means; fastening elements extending into said stock and engaged with the lock plate in the first-named



position of the lock plate, whereby to hold the pad base releasably assembled with the stock, said elements being disengaged from the lock plate in the second position of the lock plate for removal of the base from the stock; and a pad member secured to and overlying said base.

2,650,447
FISHING LINE GUIDE
Robert L. Johnson, Unity, Wis.
Application July 5, 1950, Serial No. 172,119
2 Claims. (Cl. 43—24)



1. A line guide for fishing poles comprising a resilient flat metal clamping member open at its ends, a pair of longitudinally spaced supporting elements in the form of substantially triangular ears struck outwardly from said member intermediate the side edges thereof, a line guide eye disposed between and secured to said ears and a substantially triangular attaching spur for said member struck inwardly from said member intermediate said ears and extending transversely of said member.

2,650,448
FISHING LINE BRAKE
Sanford H. Lichtig, Cleveland, Ohio
Application March 26, 1951, Serial No. 217,640
1 Claim. (Cl. 43—25)



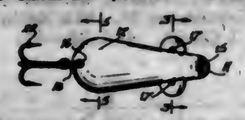
A line brake for a fishing rod comprised of a resilient unitary cylinder member, having a coextensive cylinder bore corresponding in diameter substantially to the diameter of the fishing rod upon which it is to be placed, and a projection extending outwardly from said exterior surface of the cylinder, said projection being slit in a plane passing through the axis of the bore whereby a line supported by said rod may be retained within the slit.

2,650,449
FLY ROD AND REEL CASE
Everett C. Suring, Gillett, Wis.
Application September 23, 1949, Serial No. 117,445
1 Claim. (Cl. 43—26)



A device of the character described comprising an elongated hollow body, a complementary cover hinged to said body, said body having an enlarged portion at one end thereof, said complementary cover having a complementary enlarged portion at the corresponding end thereof, and means within said body for storing a disassembled fly rod and an attached reel, said means including a pair of transversely extending racks each having a plurality of registering recesses of progressively smaller size extending from one side of said body to the other for the reception in spaced parallel relation of the disassembled parts of the fly rod, said racks being adapted to receive opposite end portions of said disassembled rod, and a pair of transversely extending outwardly bowed flat springs in said cover for holding the rod parts in said racks, said springs each being mounted immediately inwardly of one of said racks, and said springs and said racks being out of registry with one another.

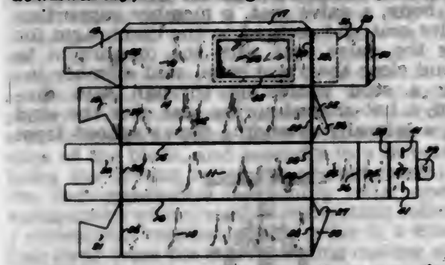
2,650,450
FISHING LURE
Herbert F. Grathwohl, Bronx, N. Y.
Application July 20, 1950, Serial No. 174,831
3 Claims. (Cl. 43—42.32)



1. A fishing lure having an elongated laterally curved body with a narrow rounded front end and a wider rounded rear end, integral flat ears projecting horizontally from opposite sides of the body closely adjacent the front end thereof, each of said ears having a perforation adjacent the side of the body, and a cylindrically shaped eye member of transparent material mounted through each of said perforations in a force fit and projecting on both sides of said ears.

2,650,451
CONTAINER-DISPENSER FOR POISONED BAIT
Elmer C. Karstedt, Burlington, Wis.
Application February 7, 1951, Serial No. 209,873
5 Claims. (Cl. 43—131)

1. A container-dispenser for toxic granular bait or the like comprising a receptacle formed from a blank of sheet material which has been cut, scored, and folded to provide a bottom on which the device is adapted to rest when in use for dispensing purposes, to provide a top and to provide sides; an elongated extent of material foldably connected to one end of said bottom and having spaced lines of transverse scoring to form three sections, the first of said sections extending obliquely inwardly and upwardly from said bottom, the second of said sections extending outwardly from the upper edge of the first section, and the third of said sections extending downwardly, there being an access opening above



said third section of material; means for closing said access opening prior to use of the device for dispensing purposes; and means for closing the opposite end of said container.

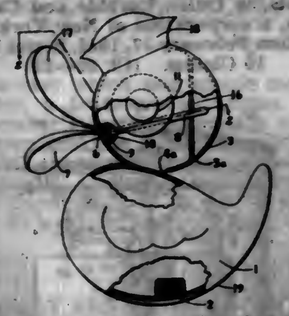
2,650,452
TOY BANK
Thomas C. Martin, Cohasset, Mass.
Application July 7, 1949, Serial No. 103,439
1 Claim. (Cl. 46—3)



A toy in the shape of a water fowl having a hollow body as a base with a hollow head section thereon having side walls substantially parallel to each other, a beak having an arm extending inward into the head, means pivoting said beak with said arm at a point at one side of the head corresponding to the position of the mouth of the water fowl, a coin slot formed in the head with a slot opening at the top of the head and with said hollow head section providing with its substantially parallel side walls guides for the sides of the coins put into said coin slot, partitions extending crosswise of the head directing the coins in their downward movement, said arm having its end extending into the path of the coin below said slot whereby as the coin falls downward through the slot it will engage said arm to oscillate said beak, a shell in the form of an egg having an opening in one side aligned with said slot to receive a coin passed through the coin slot, means providing a flange projecting from the inside of the front of the hollow body engaging and fitting in a recess in said shell, means projecting from the inside of the rear end of the hollow body adapted to engage in said shell, and means hinging the rear end of the hollow body to the rest of the body whereby when the rear end is swung open the shell may be removed and when closed, said hinged rear end will hold said shell in place.

2,650,453
AQUATIC FIGURE TOY
Thomas C. Martin, Natick, Mass.
Application May 24, 1947, Serial No. 750,259
2 Claims. (Cl. 46—92)

1. A toy of the type described for executing a rocking motion in the water and on a support having the caricature of a water fowl comprising a hollow body member having a longitudinally arched base with the lower portion thereof having transverse sections which are slightly inwardly concaved lines, a counterweight mounted in substantially the lowest longitudinal portion of the base and extending transverse to the longitudinal direction, a hollow head member mounted on the top of said hollow base just rearward of the forward end thereof, said head member having substantially flat parallel sides positioned inwardly of the sides of the hollow body with transparent window contours in positions for simulating the eyes of the fowl, a fixed upper beak projecting from the forward part of the head member forward of the front of the body, a movable lower beak terminating in a member extending inward into said hollow head and having a pivoting shaft projecting transversely on each side of



said member, a supporting bearing forming a part of and projecting inwardly of the wall of the hollow head for supporting said pivoting shaft whereby said lower beak is pivoted in the hollow wall of the head at the front thereof, a pair of disc elements carrying eye pupils and means supporting said disc elements from said inwardly extending member, said elements being supported in parallel relation and spaced from said open window and a transverse partition provided across the back of the head forming a guide for said extension having a slot therein in which said extension may oscillate as the beak and eye pupils move said lower beak, disk elements and inwardly extending member forming a balance system for free movement on said pivot as said toy moves the body, beak and head with the body counterweight providing a longitudinal balance with the head upright and transverse balance with the body level.

2,650,454
VINE HOLDER
Lawrence J. Wurdinger, Mount Angel, Oreg.
Application June 5, 1950, Serial No. 166,101
1 Claim. (Cl. 47—44)



A vine holder comprising an elongated rod including a head and a ground penetrating stem, said head including a semi-circular portion hav-

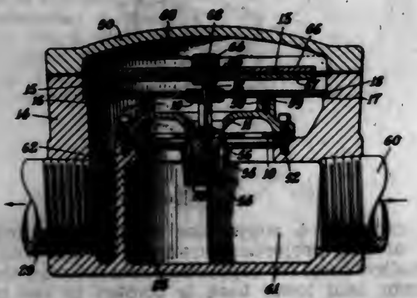
ing upper and lower ends, said stem depending radially from said lower end, a transverse portion extending from said upper end in a direction substantially perpendicular to said stem, a helical portion extending from said transverse portion co-axial with said semi-circular portion and having a radius substantially equal to the radius of said semi-circular portion and having its terminal end portion adjacent said transverse portion, said head adapted to receive vines in said helical portion and between said helical portion and said semi-circular portion.

2,650,455

GAS PRESSURE REGULATOR RESISTANT TO HUM

Wilgot J. Jacobsson, Plainfield, and Edward Behnke, Newark, N. J., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

Application February 17, 1948, Serial No. 8,847
10 Claims. (Cl. 50—21)



1. In a self-aligning valve of the type having a stationary nozzle, a flexible diaphragm seat clamped around its outer edge portion for cooperation with said nozzle, a stem passing through said nozzle, secured to and guided by said diaphragm seat, said seat being provided with a perforate portion between its nozzle engaging portion and clamped edge portion, and a flexible diaphragm responsive to fluid pressure for moving said valve stem, the combination therewith of the improvement for eliminating hum, said improvement comprising a stationary baffle forming a sealed edge chamber between said pressure responsive diaphragm and nozzle with said pressure responsive diaphragm constituting a wall of said chamber, and laterally shiftable packing having a freely sliding fit around said stem where it passes through said baffle, said packing being a washer of smooth material surrounding said stem, a housing enclosing said washer, walls of said housing engaging the opposite faces of said washer loosely to allow lateral shifting of said washer with said stem and allow restricted movement of gas through said baffle whereby said chamber functions as cushion to eliminate humming movement of said stem and flexible diaphragm seat.

2,650,456

PRESSURE REGULATING VALVE

Kenneth C. Mosier and Glen K. Mead, Denver, Colo., assignors to C. A. Norgren Co., Denver, Colo., a corporation of Colorado

Application November 5, 1948, Serial No. 58,462
3 Claims. (Cl. 50—23)

1. In a pressure reducing valve, a hollow body having an inlet and an outlet defining a fluid passageway having an open top, an apertured valve stem mounted within said body and constituting a portion of said passageway, a bonnet on the hollow body, a diaphragm closing said open top and sealed between the bonnet and the hollow body, a valve seat, a member supporting the valve seat and secured to the diaphragm for moving the valve seat with the diaphragm to open and close the valve stem, said member including a stud projecting through said diaphragm, a hat-shaped spring seat over the stud having a laterally extending flange spaced from



the diaphragm, said spring seat having a conical bottom in the recess thereof, a ball bearing on the stud supporting said spring seat, said stud having a recess on the end thereof for supporting said ball on the circular bearing line, said ball supporting said spring seat on a circular bearing line in said conical bottom whereby said spring seat freely rotates and oscillates under applied spring pressure, said spring bearing against the flange on the hat-shaped spring seat, and means threaded to the bonnet for forcing the spring against the flange.

2,650,457

APPLIANCE FOR USE IN SHARPENING OR RESHARPENING SAFETY-RAZOR BLADES

Alfred Leonard Walton, Blackpool, England

Application July 13, 1951, Serial No. 236,489
In Great Britain January 25, 1951
3 Claims. (Cl. 51—81)



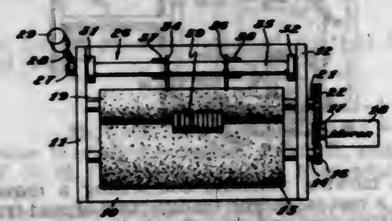
1. An appliance for use in sharpening or resharpening safety-razor blades comprising a frame, two sharpening rollers rotatably supported in said frame and disposed in spaced parallel relationship, a cross bar on said frame disposed midway between said sharpening rollers, said bar being adapted to provide a seating for the blade to be sharpened which seating is disposed in a plane slightly below that joining the upper extremities of the curved surfaces of the sharpening rollers, projecting pins on said bar for locating the blade with respect to the latter, a driving roller mounted in slotted bearings in the frame so that dependent upon the direction of movement of the latter, said driving roller will be moved into driving relationship with one or other of said sharpening rollers, a casing adapted slidably to engage over the frame, and resilient means carried by said casing and adapted on application of the latter to said frame to apply an even pressure to any blade positioned on the cross bar and also frictionally to grip the projecting pins carried by said cross bar, the construction being such that with a blade positioned in the frame and the casing applied to the latter when the appliance is reciprocated over a stationary surface with the driving roller in contact with the latter, said roller will be caused to rotate firstly in a direction resulting in movement thereof into engagement with one of the sharpening rollers with consequent rotation of this roller in a direction away from the corresponding cutting edge of the blade, and secondly in a direction to bring the driving roller out of engagement with the first-mentioned sharpening roller and into engagement with the other sharpening roller with a consequent rotation of this roller in a direction also away from the corresponding cutting edge of the blade.

2,650,458

DISK EDGE DEBURRING MACHINE

Frank Charles Wallace, North Hollywood, Calif., assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application April 24, 1952, Serial No. 284,099
2 Claims. (Cl. 51—103)



1. A disc edge grinding means comprising, a base plate, a pair of end plates attached to the base plate, a first roller rotatably supported between said end plates, a second roller rotatably supported between said end plates adjacent the first roller, a driving means geared to said first and second rollers to drive the first roller at approximately twice the angular rate of the second roller, said first roller having a diameter substantially twice that of the second roller, an axle pivotally supported between said end plates, a pair of brackets supported by said axle, a shaft supported between the free ends of said brackets, and a second pair of brackets slidably supported on said axle and said shaft and engageable with said plurality of discs to prevent them from moving longitudinally of said rollers.

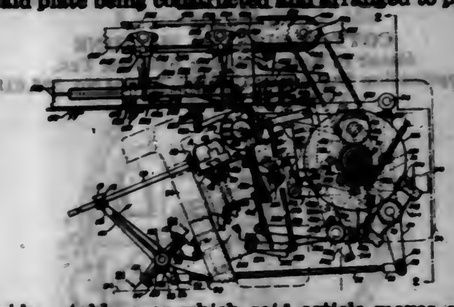
2,650,459

WRAPPING MACHINE

James J. McGinley, Williston Park, N. Y., assignor to American Machine and Foundry Company, a corporation of New Jersey

Application May 17, 1947, Serial No. 748,715
12 Claims. (Cl. 53—110)

1. In a wrapping machine, an article infeed conveyor, an article transfer, a guide surface for a wrapper, means for holding a wrapper on said surface with the leading end thereof draped in the path of travel of an article onto said transfer, a lap roller mounted for movement between said conveyor and said transfer for draping the leading end of the wrapper in said path of travel of said article, a conveyor for moving an article from said infeed conveyor against said draped end of said wrapper and onto said transfer, an article supporting plate, arms mounting said plate for movement into and out of an operative position relative to said article transfer, a movable supporting device operative during the travel of an article from said infeed conveyor onto said transfer for moving said arms to position said plate in said operative position between said infeed conveyor and adjacent said transfer subsequent to the movement of said lap roller between said article transfer and said infeed conveyor, said plate being constructed and arranged to provide a table over which said article moves onto said transfer, a transverse wrapping material gripping member also carried by said supporting device, and cooperating means on said transfer coacting with said member when said supporting plate is located in said operative position for engaging the depending end of said wrapper and controlling its encirclement about said article.

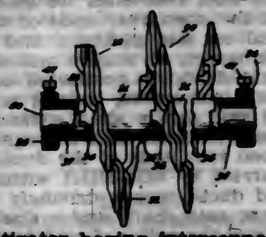


2,650,460

SPIRALLY ARRANGED TOOTHED CULTIVATOR WHEEL

George A. Newhouse, Yorktown, Ind., assignor to Norman G. Gilbert, Muncie, Ind., as trustee

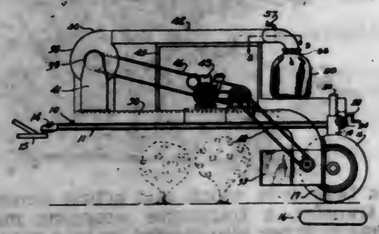
Application May 14, 1948, Serial No. 26,971
1 Claim. (Cl. 55—152)



In a cultivator having interconnected carrier means for a plurality of groups of cultivator elements arranged in transversely offset relation and having a supporting shaft for each group of elements, the improvement comprising, in combination, hoe element sections each consisting of an integral casting having a hub, supporting structure extending radially from said hub, a plurality of outwardly-projecting, forwardly-curved, tapering hoe elements carried by said supporting structure and equally spaced circumferentially about said hub, the bases of said hoe elements being thickened and interconnected to form a rim-portion at the periphery of said supporting structure, said supporting structure and rim-portion and hoe elements lying in a helix about the hub, forming a single helix-flight thereabout, and terminating circumferentially in non-overlapping relation substantially at an axial radial plane, complementary interengaging axially-opening means at opposite ends of the hub to prevent relative rotation of axially interengaging sections, the length of the hub and axial spacing of said means at its ends being effectively equal to the pitch of said helix, a plurality of said hoe-element sections being assembled in interengaged

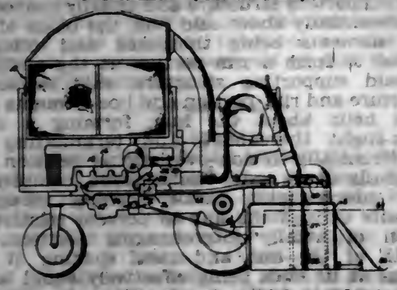
relation coaxially on a supporting shaft and forming a continuous multiple-helical-flight, rim portion and series of hoe elements thereabout, and means to hold said sections in interengaged relation on the shaft for rotation as a unit on the axis of the shaft.

2,650,461
COTTON-PICKING MACHINE
Oscar F. Kerr, Sulphur Springs, Tex.
Application December 13, 1952, Serial No. 325,618
3 Claims. (Cl. 56—13)



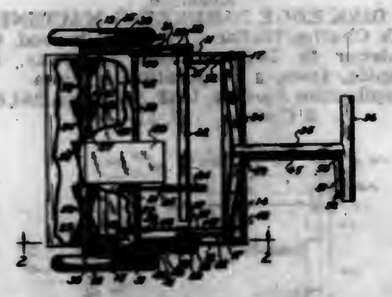
1. A cotton picking machine comprising a platform structure having a front end and a rear end and a towing hitch structure on the front end thereof, wheels disposed one at each side of said platform at the rear end thereof, means connecting said wheels to said platform for vertical adjustment of said platform relative to said wheels, ducts mounted on said platform and having rear ends spaced apart transversely of said platform and downwardly curved to terminal positions below the platform, deflectors disposed one at each side of each duct at the rear ends of the ducts and convergently inclined from locations ahead of the rear ends of the corresponding ducts to the duct rear ends for guiding cotton plants past the open rear ends of the ducts a fan mounted on said platform and having an inlet and an outlet, an engine mounted on said platform and drivingly connected to said fan, conduit means connecting both of said ducts to the inlet of said fan, a shaft extending transversely of said platform and through said ducts near the open rear ends of the ducts, agitating elements carried by said shaft within the rear ends of said ducts, means drivingly connecting said engine to said shaft, and a discharge duct extending from the outlet of said fan above said platform.

2,650,462
MOISTENING DEVICE FOR COTTON HARVESTERS
Arthur G. Skaggs, Fresno, Calif., assignor of one-half to Arsen M. Kuyudjian, Fresno, Calif.
Application June 29, 1951, Serial No. 234,417
9 Claims. (Cl. 56—14)



1. In a mechanical cotton picker adapted for earth traversing movement, the combination of a picking mechanism mounted in the picker, an internal combustion engine having driving connection to the picking mechanism and providing an exhaust collector, means mounted in the picker defining a path of movement of cotton plants through the picker past the picking mechanism, and conduit means having an end connected to the exhaust collector and an opposite end mounted in the path defining means open to the plant path forwardly of the picking mechanism.

2,650,463
REEL TYPE MOWING MACHINE
Clarence D. Courson and Warren C. Courson, Worthington, Minn.
Application January 18, 1950, Serial No. 139,286
2 Claims. (Cl. 56—249)



1. A mowing machine comprising a movable frame, a reel extending transversely of said frame and having first and second ends thereof mounted in said frame for rotation about a horizontal axis, means for rotating said reel in a single direction, a blade carrying bar constituted as an integral part of said reel parallel to and spaced from the axis of rotation thereof, a bank of cutting blades positioned tangentially of said reel and rigid with said bar, said cutting blades being arranged in spaced, overlapping relation with respect to each other and extending longitudinally of said reel, each blade having an intermediate portion, a leading end portion disposed in advance of said intermediate portion in direction of rotation of said reel and a following end portion extending rearwardly of said intermediate portion in said direction of rotation, each of said leading end portions lying between its corresponding intermediate portion and said first end of said reel and each of said following end portions lying between its corresponding intermediate portion and said second end of said reel, and means fixedly mounted on said frame and coacting with said bank of blades for shearing grass as the machine is moved over the ground.

2,650,464
FRUIT PICKER DEVICE
Louis L. Bernheim, Richmond, Calif.
Application December 4, 1950, Serial No. 198,971
6 Claims. (Cl. 56—328)

1. A fruit picking mechanism on a fruit conveying tube comprising a hollow base in continuation of the tube, a rotatable collar on said base, opposed jaws pivoted on said collar for gripping movement toward one another, a manipulating device on said base and connected to said jaws for moving said jaws toward one another for gripping a fruit and for releasing said jaws from said fruit, and a manipulating device on said base and connected to said collar for imparting turning motion to said collar and to the jaws thereon, and a soft resilient lining in each jaw for frictionally engaging the fruit between said jaws.



2,650,465
MOUNTING FOR SPINDLES
Arthur Westall, Accrington, England, assignor to T. M. M. (Research) Limited, Rossendale, England
Application January 3, 1951, Serial No. 204,145
In Great Britain June 23, 1950
6 Claims. (Cl. 57—135)



1. A mounting for the spindles of textile spinning and analogous machinery from spindle rails, said spindles having spindle blades, a non-rotatable bolster supported from the spindle rail, a tubular extension on said bolster, a tubular insert housed within said tubular extension, a resilient bushing connecting said tubular extension and said tubular insert, and bearings incorporated in said tubular insert for supporting a spindle blade coaxially therein, said bushing being located at a point approximately coincident with the center of the full yarn package to be carried on the spindle, so that the spindle and the yarn package are capable of gyrating about the center of the resilient bushing.

2,650,466
INTERVAL TIMER CONSTRUCTION
Kurt K. Neumann, Ann Arbor, Mich., assignor to King-Seeley Corporation, Ann Arbor, Mich., a corporation of Michigan
Original application July 6, 1946, Serial No. 681,740. Divided and this application December 22, 1950, Serial No. 202,290
2 Claims. (Cl. 58—21.13)



1. A timer comprising a timing mechanism having a main arbor, a casing enclosing said timing mechanism and having an aperture through which said arbor projects from said casing, said casing also having a second aperture, a bell mounted on said casing, a movable actuator controlled by said timing mechanism and disposed within said casing, a bell hammer mounted on said casing and extending through said second aperture, said hammer having an enlarged head externally of said casing and a groove internally of said casing, a spring clip having an aperture adapted to receive the inner end of said hammer, said clip engaging said hammer in said groove and having end portions engaging said casing to yieldably urge said hammer inwardly of said casing and hold said head in engagement with said casing, said casing being otherwise entirely closed to seal the timing mechanism against dust and foreign material.

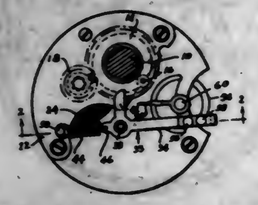
2,650,467
CALENDAR TIMEPIECE
Robert Favre, Evilard-sur-Bienne, Switzerland, assignor to Marc Favre & Cie. S. A., a corporation of Switzerland
Application November 15, 1950, Serial No. 195,725
In Switzerland June 2, 1950
1 Claim. (Cl. 58—58)



In a time-piece comprising an internally toothed rim or ring bearing the indications of the calendar and a pawl-type element ensuring a stable position of the rim after each of its displacements, an intermediate element, an hour wheel, a wheel rigidly connected with said hour wheel and actuating said intermediate element, and a wheel actuated by said intermediate ele-

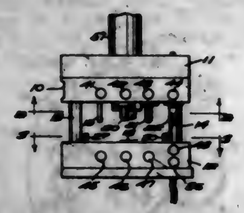
ment and driving the toothed rim, the centre of the last mentioned wheel being situated outside the line passing through the centre of the rim and the tip of its tooth situated facing the last mentioned wheel, so that the latter displaces the rim by one tooth in one direction of rotation and does not drive it in the other direction.

2,650,468
BALANCE STARTER MECHANISM
Louis De Negre, New Haven, Conn., assignor to The New Haven Clock and Watch Company, New Haven, Conn., a corporation of Connecticut
Application June 22, 1951, Serial No. 233,977
9 Claims. (Cl. 58—36)



1. In a timing mechanism; a winding means including a wheel mounted for manual rotation in the mechanism; a starting stud extending up from the wheel; a balance wheel mounted for oscillation; a starting lever mounted on a suspension means and comprising an arm extending in one direction from the suspension means toward the periphery of the balance wheel, a lug extending in the opposite direction from the suspension means, a starting finger extending outwardly from the starting lever at the suspension means and normally positioned in the path of the manually rotated wheel and a starting lever spring on the arm for frictionally engaging the periphery of the balance wheel upon the movement of the starting lever about the suspension means upon engagement of the starting finger by the starting stud, by manual rotation of the wheel; and a spring secured to the lug in straight line alignment with said lug and arm of said starting lever, for returning the starting lever to normal position upon disengagement of the finger by the starting lug.

2,650,469
MANUFACTURE OF FLEXIBLE CHAINS
Max Marquardt, East Greenwich, R. I.
Application September 24, 1948, Serial No. 51,055
14 Claims. (Cl. 59—14)



1. In the manufacture of snake chains, the steps of cutting coaxial annular spaced slots in a strip to provide a center disk and radial bars, swaging an intermediate part of the outer peripheral portion of each of said slots and the center disk to depress the center portion and to form inwardly extending lips from the strip material at the outer slot edges and outwardly extending shoulders from the disk material at the inner slot edges, cutting out the slotted portion of the strip to provide a rim around the slots, whereby a link blank results, positioning the link blanks successively in superimposed relation, and pressing the rims of each blank inwardly at the slot areas to interlock its lips with the disk shoulders of the following link blank.

10. Apparatus for the manufacture of snake chain from a strip of sheet metal, comprising an upper tool and a lower tool, the upper tool being reciprocable towards the lower tool, said upper tool having a series of stamps and said lower tool a series of seats for cooperation therewith, said stamps including a cutter for cutting coaxial annular slots and a center disk in the strip, swaging dies for swaging an intermediate part of the outer peripheral portion of each of the slots and the center disk to form inwardly extending lips on the slot peripheral portions and outwardly extending shoulders on the center disk and depressing the center disk, a cutter to cut out a link blank comprising the swaged part and an annular rim therefor and to press the link through a shaping former seat in cooperation therewith, said shaping former seat having a constricting portion for successively pressing each link blank rim inwardly at the slot areas between the rim and the center disk to interlock its inwardly extending lips with the center disk shoulders of the following link blank, and mechanism for feeding portions of said metal strip step by step between operations of said upper and lower tools to each of said stamps and their seats successively for successive operations thereon.

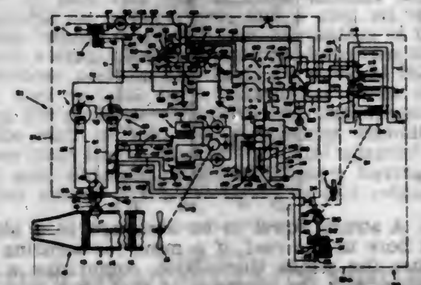
2,650,470
CHAIN LINK
Charles E. Sennholtz, Chicago, Ill.
Application December 9, 1949, Serial No. 132,953
4 Claims. (Cl. 59—80)



1. A chain link in the form of a loop having curved opposite link ends with inner bearing surfaces, the component elements of each surface in all longitudinal planes parallel to the general plane of the link being concavely arcuate, the component elements of each surface in all longitudinal planes perpendicular to the general plane over a chordal length of said first mentioned elements equal at least to the thickness of the link being convexly arcuate, all said concavely and convexly arcuate surface elements having substantially the same curvature on the same radial length, whereby the coacting bearing surfaces of two interconnected links are adapted for full surface contact.

2,650,471
JET ENGINE FUEL CONTROL
Knud J. Knudsen, Woodbury, Conn., assignor to The Lewis Engineering Company, Naugatuck, Conn., a corporation of Connecticut
Application July 5, 1947, Serial No. 759,262
59 Claims. (Cl. 60—39.03)

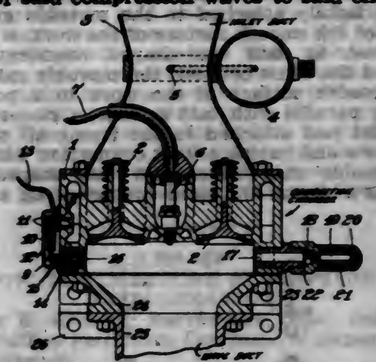
1. The method of maintaining within a predetermined range a variable regulated by a reversible control, which includes the steps of applying to a biased deflectable member a uni-directional fluctuating deflecting force of an average magnitude proportionate with the value of the variable to cause oscillation of the member, and operating said reversible control in one direction or the other according to whether the magnitude of oscillation of the member is greater or less than a predetermined value corresponding to the said predetermined range of the variable.



49. A settable automatic control device for use with an instrumentality heated by combustion of fuel, comprising fuel flow-control means; reversible powered means for operating said flow-control means to increase or decrease the fuel flow; a deflectable member; means for oscillating the deflectable member in response to and proportionately with heating of said instrumentality, the center of movement of the member having a predetermined relationship to the temperature of said instrumentality throughout a part of the range of said temperature; manually settable means for altering said relationship, thereby to change the conditions to be maintained by the control device and means for oscillating said powered means to shift the center point of its movement in one direction or the other in response to the center of movement of the deflectable member being positioned in or out of a predetermined position respectively.

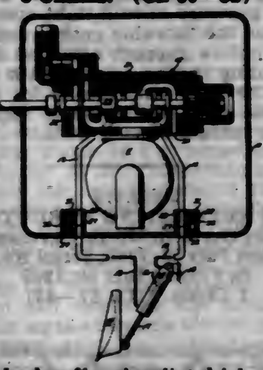
2,650,472
RESONATING COMBUSTION POWER GAS GENERATOR
Wilfred Percival Mansfield and John White, Slough, England, assignors to Sir W. G. Armstrong Whitworth & Company (Engineers), Limited, London, England
Application December 11, 1945, Serial No. 634,246
In Great Britain July 17, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires July 17, 1964
10 Claims. (Cl. 60—39.28)

1. A generator for producing a supply of gases under pressure, comprising means defining a combustion chamber, inlet valve means for the introduction of charges of gas into the chamber, mixing means for mixing a combustible fuel with said gas to form successive charges of combustible mixture in said chamber, ignition means for said mixture, wave duct means communicating with said chamber and having first and second wave reflecting means for reflecting combustion-produced compression waves travelling along said duct means away from said chamber and thereby to return them to said chamber, said first wave reflecting means being disposed at a point along said duct means so as to reflect a portion of said compression waves to said chamber as waves of rarefaction, said second wave reflecting means being disposed at a point further along said duct means from said chamber so as to reflect a portion of said compression waves to said chamber



as waves of compression, and exhaust means for the exit of gases from said generator.

2,650,473
PUMP AND MOTOR HYDRAULIC SYSTEM AND CONTROL THEREFOR
John W. Bridwell, Marion M. Coker, and Herschel M. Williamson, Peoria, Ill., assignors to Caterpillar Tractor Co., Peoria, Ill., a corporation of California
Application July 7, 1951, Serial No. 235,652
3 Claims. (Cl. 60—52)

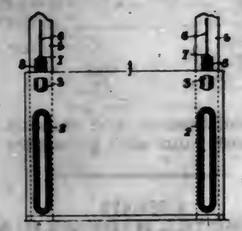


1. In a hydraulic circuit which comprises a double acting hydraulic jack, a fluid reservoir, a pump, fluid passage means for connecting the pump inlet with the reservoir, conduits connecting the pump outlet with opposite ends of the jack, and a control valve for selectively directing fluid under pressure from the pump through either of said conduits to one end of the jack while fluid from the opposite end returns through the other conduit back through the valve and into the reservoir, a make-up valve communicating between the reservoir and one conduit at a point between the control valve and the jack to relieve fluid from the reservoir to the jack without flowing through the control valve if the rate of fluid returning to the reservoir exceeds the output of the pump.

2,650,474
SASH GATE
Jacques Jean Emile Messager, Paris, France
Application March 10, 1948, Serial No. 14,939
In France March 12, 1947
10 Claims. (Cl. 61—33)

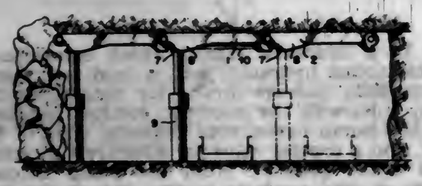
1. A water gate comprising an immovable work having a smooth surface, a movable gate mounted

on said work for shifting motion parallel with said surface, a ring-shaped deformable membrane tightly attached to the movable gate in front of the smooth surface of the work, a frame attached to said ring-shaped membrane all around the same between the movable gate and the smooth surface of the work in a position nearly parallel with said surface, a ring-shaped resilient pad attached to the frame all around the same and having a tight connection with said deformable membrane, said ring-shaped pad having a sliding and tight contact along a ring-



shaped line with the smooth surface of the work, a tight space of variable volume and shape having said ring-shaped membrane and pad for their side-walls being thus provided between said work and said movable gate, means for admitting a fluid into said tight space and for keeping said fluid under pressure in said tight space, whereby providing for the movable gate a resilient fluid-containing hollow support attached thereto and having a sliding resting contact with the smooth surface of the work, and means for sliding said movable gate and said resilient support along said smooth surface of said work.

2,650,475
MINE SUPPORTING STRUCTURE
Karl Gerlach, Moers, Germany
Application July 28, 1949, Serial No. 107,262
In France July 30, 1948
1 Claim. (Cl. 61—45)



A mine roof supporting structure comprising generally longitudinally aligned girders, each girder comprising a first projecting element at one end thereof, spaced projecting elements at the other end thereof, said girders being pivotally interconnected with said first projecting elements of each girder being received between said spaced projecting elements of an adjacent girder by a pin positioned laterally thereof and substantially in lateral alignment with the neutral plane of said girders, each of said girders having a depending projection adjacent its points of pivotal connection to adjacent girders and presenting abutments facing corresponding abutments on said adjacent girders, and wedges in wedging engagement with the facing abutments of said girders and extending transversely of said girders.

2,650,476
DOWEL ROD ANCHOR
Samuel J. Crockett, Phillippi, W. Va.
Application July 11, 1952, Serial No. 298,290
20 Claims. (Cl. 61—45)



1. A strata dowel to be anchored in a blind-end bore in the roof of a mine for securing together the strata thereabove, comprising a rod substantially the diameter of said bore, said rod being bifurcated at its upper end by a slot extending axially thereinto, the slot being tapered to converge upwardly; a pair of complementarily tapered slips in said slot, the slips being spaced apart and having inner adjacent surfaces tapering to diverge upwardly; a wedge between said slips having a taper complementary to that of said inner adjacent surfaces; and an elongated trip bar fixed to the top of said wedge and extending upwardly out of said slot and beyond the end of said rod, whereby as said rod is pushed into said bore the trip bar will bottom on said blind end and force said wedge downwardly with respect to said slips thereby expanding the slips laterally outwardly to embed them in the walls of the bore so that a downward pull on said rod will cause said slips to wedge deeper into the taper of said slot and expand said bifurcated upper end.

2,650,477
CESSPOOL LINING MACHINE
Oliver C. Stine, Sun Valley, Calif., assignor to Lindsay & Wagnild, Inc., Van Nuys, Calif., a corporation of California
Application October 16, 1952, Serial No. 315,035
5 Claims. (Cl. 61—63)



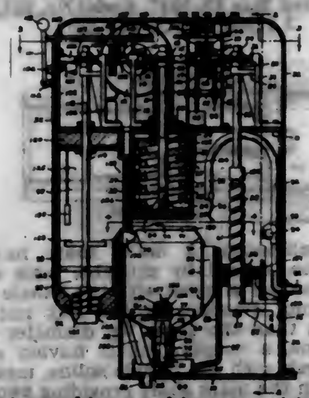
4. An excavation lining machine for positioning, transporting and placing a wall forming a tank in an excavation the combination of a central suspending column, a collapsible bottom comprising radially extending foot mechanisms having block supporting feet defining when extended the bottom perimeter of the wall, each foot piece mechanism having a pair of collapsible triangular braces wherein the respective braces of each pair are radially arranged about the column in the form of a set, and a ring around the column joining each set of braces, one of said rings being axially slidable in the column and the other of said rings being fixed against axial movement on said column, and a stop on said column having in one position of rotation of the column a supporting relation to said one ring and in another position of rotation a released relation, and vertical block contacting slides defining the perimeter of the inside circumference of the wall of said pit, said slides including braces from the column to the slides adapted to hold said slides in place, said braces having a limited axially slidable relation to said column.

2,650,478
METHOD AND APPARATUS FOR SHIPPING AND STORING COMBUSTIBLE GASES
Edwin H. Brown, Elm Grove, Wis., assignor to Union Stock Yards & Transit Company, Chicago, Ill., a corporation of Illinois
Application February 26, 1952, Serial No. 273,527
13 Claims. (Cl. 62—1)



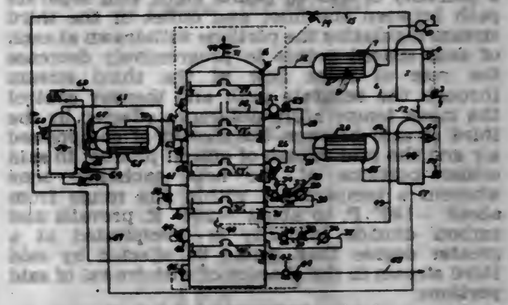
1. The method of storing cold, liquefied combustible gas which consists in providing a gas tight zone, introducing carbon dioxide into the zone to expel the air, then supplying liquefied combustible gas to the zone at temperature such that the carbon dioxide is frozen and reduced in volume, until the zone is substantially filled with liquefied hydrocarbon, the solidified carbon dioxide and some of the hydrocarbon in gaseous condition.

2,650,479
CLEAR ICE-MAKING MACHINE
Theodore Kattis, Bedford, Ind.
Application April 12, 1950, Serial No. 155,423
9 Claims. (Cl. 62—3)



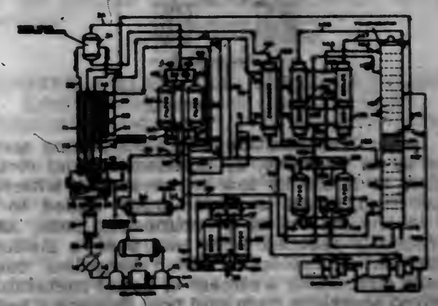
1. An ice making machine comprising a refrigerating cup; a water cup; motor driven means for revolving the refrigerating cup; motor driven means immersing the refrigerating cup while being revolved in said water cup for a period to freeze water from the water cup on the surface of the refrigerating cup and then withdrawing the water cup from around the refrigerating cup; an ice cutter bearing toward said surface and traveling with said water cup to chip ice from said surface; a water supply line to discharge into said water cup; valve means controlled by travel of the water cup as said refrigerating cup is being immersed to fill said water cup from said line.

2,650,480
LOW-TEMPERATURE ABSORPTION REFRIGERATION
Forrest E. Gilmore, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application August 22, 1947, Serial No. 770,055
7 Claims. (Cl. 62—5)



1. A method of refrigeration which comprises, subjecting a stream of liquefied ammonia in several successive stages to a pressure drop to flash a portion thereof at each stage into gaseous ammonia to cool the liquid ammonia remaining at each stage and progressively absorbing the ammonia vapors thus generated with a stream of aqua ammonia in stages of increasing concentration and pressure, whereby the liquid ammonia remaining in the final stage is cooled to a desired temperature and removing the heat of absorption from the aqua ammonia stream prior to each absorption step.

2,650,481
SEPARATION OF GASEOUS MIXTURES
George T. Cooper, Clifton, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application January 27, 1948, Serial No. 4,597
11 Claims. (Cl. 62—175.5)



1. In a system for the separation of air by liquefaction and fractionation into output prod-

ucts in which a compressed stream of air, containing carbon dioxide as an impurity, is passed through a path in a reversing heat exchange zone and a stream of output product under lower pressure and temperature than the compressed air is passed through another path in said reversing heat exchange zone in heat exchange relation with the compressed air passing therethrough, and wherein the mass flow of both of said streams in said heat exchange zone are adjusted to regulate the temperature of the air sufficiently to effect in the colder portions therein substantially the complete precipitation and deposition of the carbon dioxide impurity, and further wherein a third gaseous stream obtained from the system after said precipitation of the carbon dioxide impurity is passed through a separate path in said heat exchange zone disposed in heat exchange relation with said colder portions of the first mentioned path; the improvement which comprises withdrawing portions of said last mentioned gaseous stream at a plurality of spaced points along said separate path between the inlet and outlet of the third stream regulating the portions withdrawn at each of said spaced points to progressively decrease the rate of mass flow of the third stream through the separate path and thereby control the mean temperature difference effected by the third stream between the stream of compressed air and the said stream of output product in said colder portions of the heat exchange zone wherein a temperature within the range from about —180° F. to about —280° F. prevails and carbon dioxide impurity is precipitated at a greater degree than would be effected by said third stream in the absence of withdrawal of said portions.

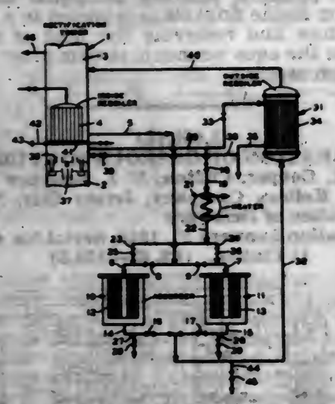
2,650,482

METHOD OF SEPARATING GAS MIXTURES

Walter E. Lobo, Westfield, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Application April 29, 1948, Serial No. 23,933

10 Claims. (Cl. 62—175.5)



1. In the fractionation of air, containing acetylene as an impurity, by liquefaction and rectification at relatively low temperatures, wherein oxygen-rich liquid is continuously added to a pool in the bottom of a rectification zone, and continuously reboiled from said pool, a method for preventing explosions which comprises: continually circulating a stream of liquid containing dissolved acetylene from said pool through a body of acetylene adsorbent material to remove dissolved acetylene, and back to said pool at a rate at least equivalent to the amount of liquid vaporized by the reboiling of said pool, and sufficient to maintain the acetylene in said pool at less than saturation, thereby preventing the existence of acetylene crystals in contact with said pool.

2,650,483

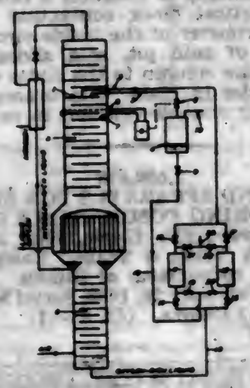
SEPARATION OF AIR

Paul Maurice Schuftan, Richmond Hill, England, assignor to The British Oxygen Company Limited, London, England, a British company

Application April 17, 1950, Serial No. 156,497

In Great Britain April 19, 1949

6 Claims. (Cl. 62—175.5)



1. Process for the separation of air by liquefaction and subsequent rectification in a rectification zone, wherein the cold supplied to said zone is such that under normal conditions of working liquefaction of the air occurs to an extent in excess of the oxygen content of the air, the excess liquid being automatically withdrawn from said rectification zone at an intermediate point of said zone in accordance with temperature fluctuations at a point of maximum temperature gradient within the zone such that the temperature gradient at this control point is maintained within close limits.

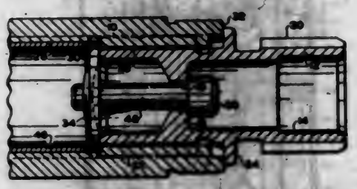
2,650,484

POWER TRANSMISSION

Henry C. Bujak, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan

Application May 29, 1947, Serial No. 751,221

5 Claims. (Cl. 64—23)



5. In combination a main shaft having a female spline, an axially shiftable male splined lock nut mounted in mesh with the female spline, the tooth root diameter of the lock nut being slightly less than the tooth tip diameter of the female spline, a coupling shaft having a male spline in mesh with the female spline, means associated with the main shaft providing two oppositely facing abutments, one of said abutments limiting axial movements of the lock nut in one direction and the other abutment limiting axial movement of the coupling shaft in the opposite direction, and screw means for anchoring the lock nut to the coupling shaft for mechanically connecting the coupling shaft to the main shaft.

2,650,485

SERVING DISH

Frank La Greca, Philadelphia, Pa.

Application November 25, 1949, Serial No. 129,249

1 Claim. (Cl. 66—15)



A serving dish comprising a lower plate and a top plate fitting therein, said lower plate comprising a flat circular bottom, a low outwardly and upwardly curving wall surrounding and forming a continuation of said bottom and an upwardly and outwardly sloping outer wall extending from the top edge of said curving wall, said top plate comprising a flat circular perforated bottom of the same diameter as the first bottom, a depending flange upon the underside of the perforated bottom at the periphery thereof and resting upon the first bottom at the joining line between the latter and said curving wall to support the perforated bottom above the first bottom, and an upwardly and outwardly inclined wall surrounding and extending from the periphery of the perforated bottom in slightly spaced relation with respect to a major portion of said sloping outer wall, said upwardly and outwardly inclined wall being of less height than said upwardly and outwardly sloping wall, said curving wall forming with said flange an annular channel for the collection in the same of drippings from foodstuffs from the upper plate which may drop onto the upper surface of said sloping outer wall and pass downwardly into the channel through the space between the sloping outer wall and the inclined wall of the upper plate.

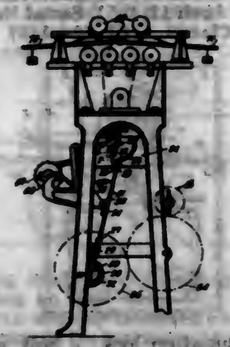
2,650,486

WARP KNITTING MACHINE

Hans Hartung, Sr., Glens Falls, N. Y.

Application April 26, 1950, Serial No. 158,305

18 Claims. (Cl. 66—86)



1. In a warp knitting machine, the combination with a guide bar having a multiplicity of thread guides thereon; of mountings for said guide bar restricting its movements to directions longitudinally thereof; a needle bar having a multiplicity of needles thereon adapted to cooperate with said thread guides; means for reciprocating said guide bar longitudinally thereof; a trick bed; and means for imparting reciprocating movements to said needle bar longitudinally of the needles thereon and, after each complete reciprocating movement thereof, swinging said needle bar about an axis above said trick bed to move said needles into and out of cooperative relation with said thread guides in timed relation to the reciprocating movements of said guide bar.

2,650,487

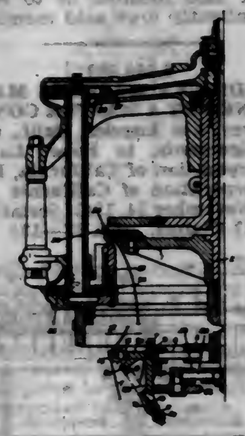
KNITTING MACHINE

Arthur Shortland, Leicester, England, assignor to Moller Bromley & Co. Limited, Leicester, England, a British company

Application May 26, 1950, Serial No. 164,390

In Great Britain April 7, 1949

12 Claims. (Cl. 66—153)



1. In a knitting machine, fabric drawing-off mechanism including individual rollers having axially spaced peripheral projections of pointed formation adapted to mesh with fabric to be drawn off, members upon which the said drawing-off rollers are mounted for rotation in one direction only, means for moving the said members alternately towards the knitting needles so that the drawing-off rollers roll idly over the engaged fabric in this direction, and away from the needles to cause the said rollers, without rotating, to move bodily to exert a pull on the fabric for the purpose of drawing the latter off the machine.

2,650,488

IGNITER AND METHOD OF MAKING SAME

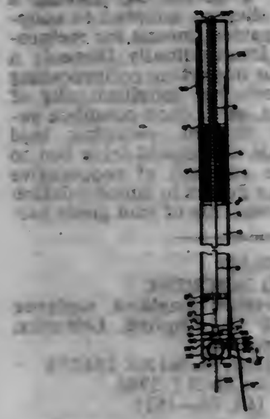
Cyril Charles Crockett, Glendale, Calif.

Application January 17, 1948, Serial No. 2,888

18 Claims. (Cl. 67—3)

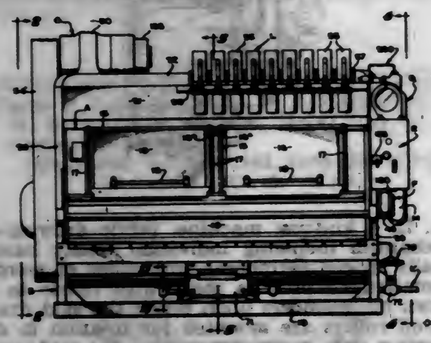
5. In an automatic igniter: means forming a pair of bodies of material adapted to ignite and produce flame upon contacting each other, at least one of said materials being a liquid; means enclosing said liquid, including a frangible wall adjacent the other material; a member mounted for movement to fracture said wall; means adapted to resiliently urge said member to fracturing position; means whereby said liquid prevents fracturing movement of said member at ambient

temperatures above a predetermined low; and means optionally operable to prevent fracturing



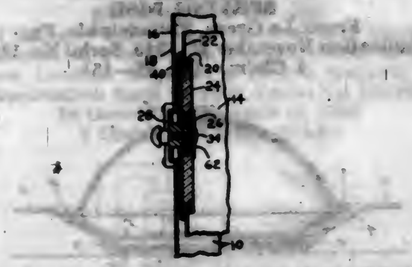
movement of said member or to energize the means to resiliently urge said member.

2,650,489
POWER-DRIVEN WASHING MACHINE GOVERNED BY A MASTER CONTROL
Herbert Harvey, Los Angeles, Calif., assignor, by mesne assignments, to Robot Laundry Machinery Corporation of California, Los Angeles, Calif., a corporation of California
Application November 24, 1947, Serial No. 787,230
17 Claims. (Cl. 68—12)



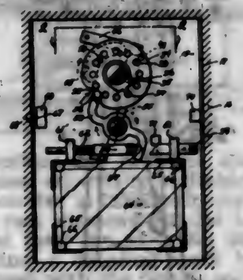
1. A washing machine including, a tank adapted to carry liquid, a rotary clothes container carried by and operable in the tank, water supply means adapted to deliver water to the tank including, a water mixer, a flow line extending from the mixer to the tank, a hot water supply line connected with the mixer to supply hot water thereto, a cold water supply line connected with the mixer to supply cold water thereto, a hot water control valve in the hot water supply line, and a cold water control valve in the cold water supply line, actuators for the valves, a quantity control directly connected to and governing said actuators to operate the valves in unison to pass a predetermined quantity of water to the tank, and a temperature control including a thermally responsive element in the flow line, the temperature control being directly connected to and governing the actuators simultaneously with the quantity control to modify the action of the quantity control by opening and closing said valves individually during operation of the quantity control to establish the said quantity of water at a predetermined temperature.

2,650,490
DOOR CONSTRUCTION FOR TUMBLER TYPE WASHING MACHINES
Philip P. Glassey, Cazenovia, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application March 11, 1948, Serial No. 14,269
2 Claims. (Cl. 68—139)



1. A laundry appliance door seal construction comprising a stationary support, a container having an end wall, means for mounting said container on said support for rotation about an axis normal to said end wall, a circular door-receiving aperture in said end wall arranged substantially coaxial with the axis of rotation of said container, said aperture being bounded by a circular tapered flange formed in said end wall, a circular door, hinged supporting means for said door mounted on said support, bearing means on said hinged means for rotatably supporting said door for rotation coaxial with said container when said door is in closed position, said bearing means having a universal movement whereby said door may align itself axially with the container axis as the hinged supporting means is moved into door closed position, a resilient continuous annular plastic gasket stretched about the rim of said door, having an inwardly directed channel for embracing the rim and marginal faces of said door, and an outwardly tapered seat for engaging said tapered flange, said gasket having a radially outwardly extending annular sealing bead projecting from the edge adjacent the higher diametered portion of said tapered seat, said bead overhanging said outwardly tapered seat, and means for exerting axial thrust upon said door to engage said bead by contact with the surface of said wall and align said door axially with the container, and thereafter seat the tapered seat within the tapered flange.

2,650,491
SELF-RELOCKING COMBINATION LOCK
Ray Streeter, Sturgeon, Mo.
Application April 12, 1951, Serial No. 220,620
6 Claims. (Cl. 70—148)



1. In a combination lock; a bolt, at least one circular tumbler rotatably supported on a horizontal axis; said tumbler having a heavy point

that normally seeks a bottom center position under the influence of gravity; said tumbler having a notch therein, a boss on said tumbler, a spring fixedly supported near said tumbler and engaging said boss of said tumbler to hold said tumbler with its heavy point in a position substantially removed from a bottom center position, and a means associated with said bolt that must enter the notch in said tumbler when said bolt is retracted; said means associated with said bolt capable of entering the notch of said tumbler only when said spring engages said boss; said means associated with said bolt as it enters the notch in said tumbler moving said tumbler to disengage said boss from said spring; whereby when said bolt is moved to locked position said means associated with said bolt is removed from the notch in said tumbler and the heavy point on said tumbler seeks a bottom center position thus shifting said tumbler.

2,650,492
LOCK MECHANISM
Edward N. Jacobi, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application June 20, 1949, Serial No. 100,258
14 Claims. (Cl. 70—363)



4. In a lock of the character described: a casing; a lock cylinder rotatable in the casing between locked and unlocked positions; a spring reacting between the cylinder and the casing and exerting a torsional force on the cylinder sufficient to effect rotation thereof toward locked position with a snap action; cooperating stops on the cylinder and casing defining the locked position of cylinder rotation; and cooperating parts on the cylinder and the casing frictionally engageable with each other during spring propelled rotation of the cylinder to its locked position to provide a brake for slowing the rotation of the cylinder prior to engagement of said stops.

2,650,493
DURABILITY TEST DEVICE
J. Hartley Bowen, Jr., Haddonfield, N. J., and Philip A. Gelber, Drexel Hill, Pa.
Application April 28, 1950, Serial No. 158,874
9 Claims. (Cl. 73—7)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A testing machine comprising a base, first support means on said base, first clamp means including a rod slidably mounted on the first support means, means for locking said rod in selected position, second support means, second clamp means including a rod slidably mounted on the second support means for movement toward and away from the first clamp means, a spiral groove in one of the second means, and a pin on the other of the second means, said pin extending into the groove to rotate the second clamp during movement toward and away from the first clamp.

2,650,494
JOLLY BALANCE
Erwin F. Linhorst, Fort Wayne, Ind., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application June 20, 1952, Serial No. 294,668
4 Claims. (Cl. 73—32)



1. In a Jolly balance having a freely suspended extension spring and means for supporting a sample from the free end of the spring, a first graduated scale secured to the free end of the spring and movable with said sample supporting means and a second normally stationary graduated scale mounted in parallel relationship to the path of movement of said first scale.

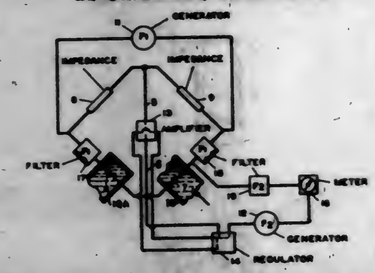
2,650,495
MEANS FOR MEASURING AND INDICATING THE TENSION IN STRIP PASSING BETWEEN THE STANDS OF A ROLLING MILL
William John Norton, Salford, England, assignor to Sir James Farmer Norton & Company, Limited, Salford, England, a British company
Application February 28, 1949, Serial No. 78,744
In Great Britain January 29, 1948
5 Claims. (Cl. 73—143)



1. In a strip rolling mill of the type including a plurality of stands of rolls through which a strip successively passes, means for measuring and indicating the tension of the strip as it passes through the rolls comprising the combination of means mounting at least one of the stands for limited pivotal movement about a horizontal axis parallel to the axis of the rolls, said stand pivoting responsive to the pull of the strip while it is passing through the rolls, pressure developing means operable in response to the pivoting move-

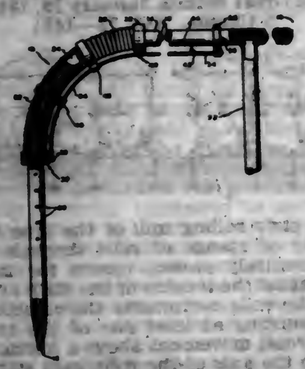
ment of the stand to determine the turning force of the stand as a function of the pull of the strip, and indicating means operable in response to the pressure developed to indicate the strip tension.

2,650,496
FLUID FLOWMETER WITH HEATED RESISTANCE BRIDGE CIRCUIT
Walter G. Middleton, Bartlesville, Okla., and Kenneth R. More, Vancouver, British Columbia, Canada, assignors to Phillips Petroleum Company, a corporation of Delaware
Application May 17, 1948, Serial No. 27,404
14 Claims. (Cl. 73—204)



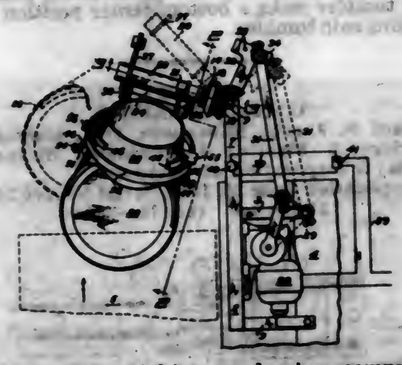
6. A flow meter for measuring the rate of flow of a flowing fluid comprising a Wheatstone bridge having four arms connected in series, a first source of current connected in shunt with the first and second of said arms, an amplifier having an input circuit coupled to a wire connected in shunt with the second and third of said arms, a heating element in said second arm, means to heat said heating element comprising a second source of current, a conductor connecting said second source of current in series with said heating element, a regulator in said conductor controlled by said amplifier, a meter in said conductor, filter means in said conductor preventing said first source of current from influencing said meter, and means exposing said second arm to said flowing fluid, whereby said meter indicates a parameter of said rate of flow.

2,650,497
FLEXIBLE PITOT-STATIC TUBE ASSEMBLY
Roger A. Renwanz, Bound Brook, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application February 12, 1951, Serial No. 210,835
5 Claims. (Cl. 73—212)



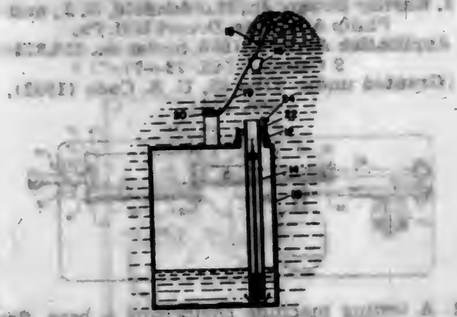
1. A flexible Pitot tube comprising a static pressure tube and an impact tube, portions thereof cooperating to form a Pitot head, a portion of each of said static and impact tubes rearwardly of the Pitot head being flexible, a resilient sleeve enclosing the flexible portions of said static and impact tubes urging said flexible portions into extended position and means for varying the flexure of the flexible portions of the static and impact tubes and the resilient sleeve secured to the Pitot tube forwardly of the resilient sleeve.

2,650,498
SAMPLING MACHINE
Austin A. Armer, Davis, Calif., assignor to Spreckels Sugar Company, San Francisco, Calif., a corporation of California
Application August 13, 1951, Serial No. 241,506
8 Claims. (Cl. 73—423)



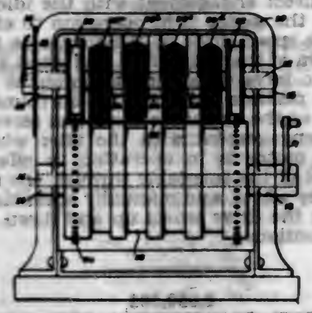
2. A sample catching mechanism comprising a bracket, means for mounting the bracket for movement about a vertical axis, a shaft journaled in the bracket for rotary movement about a horizontal axis when said bracket is moved about said vertical axis, a pan journaled on the bracket coaxially with the shaft for movement circumferentially about the horizontal axis, means operatively connecting the shaft to the pan, and means for moving the bracket back and forth about its vertical axis.

2,650,499
SAMPLING ADAPTER FOR RECEPTACLES
Harold A. Quist, Elkton, Md., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application March 27, 1950, Serial No. 152,036
4 Claims. (Cl. 73—425.4)



1. A combination adapter to convert receptacles into composite and simple liquid sampling devices comprising in combination a closure adapted to seal the receptacles, said closure being provided with an air vent opening thereinto, a liquid inlet tube adjacent the air vent positioned to extend through said closure in sealed engagement therewith and project into the receptacle to a point near the bottom thereof, said tube being separable into an upper and lower section below the closure and adjacent thereto; internal flanges at the top and bottom of said lower section of the inlet tube; a liquid flow retarding valve for obtaining composite samples removably insertable in said tube to cooperate with the upper flange therein, including a plug, a hollow stem extending the length of the lower section and through said plug; resilient means arranged to engage the lower flange normally holding the plug from contact with the upper flange; and stopper means to control the entrance of the liquid into the receptacle.

2,650,500
FUNCTION UNIT
George R. Stibitz, Burlington, Vt.
Application November 12, 1953, Serial No. 320,175
9 Claims. (Cl. 74—1)



1. A device of the type described comprising an input shaft, a plurality of eccentrics mounted on said output shaft with their points of maximum eccentricity equally angularly spaced, and a control tape comprising a plurality of cam tracks equal in number to the number of eccentrics, said control tape being driven by said input shaft, each said cam track comprising a plurality of transverse openings in the tape, the envelope of at least one end of all the slots of a track forming a curve in accordance with a law of operation, the curve of a cam track being in an out-of-phase relationship relative to the other cam tracks corresponding to the out-of-phase position of said eccentrics, said eccentrics having teeth spaced to conform with the longitudinal spacing of said transverse openings, said teeth having faces inclined to the axis of said output shaft whereby the amount of penetration of said teeth into said openings determines the position of the output shaft.

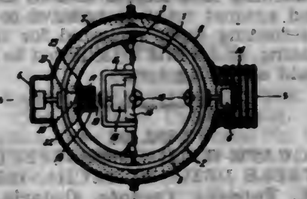
2,650,501
RELEASE FOR MOTION-PICTURE CAMERA MECHANISM
Atla I. Murray, Dayton, Ky.
Application November 30, 1950, Serial No. 198,459
1 Claim. (Cl. 74—2)

A control device for a motion picture camera which comprises a ratchet wheel for controlling the camera mechanism, a pivotally mounted hook engageable with the ratchet wheel to stop the mechanism, a hollow, cylindrical housing open at both ends, said housing having on the inside thereof a flange at one end thereof, a lug integral with said flange and projecting axially therefrom, means for attaching said cylinder to the camera with the lug projecting through the casing of the camera, said lug and said flange having an axial opening therethrough, a piston in said cylinder, a plunger carried by said piston and projecting through the opening in the lug and flange into engagement with the hook, a plug closing the other end of said cylinder, said plug having an



opening therethrough, a fluid pressure tube attached to said plug in communication with the opening therein, and means for applying fluid pressure to said tube to cause the piston to advance toward the lug end of the cylinder and drive the plunger therethrough, whereby the hook is swung out of engagement with the ratchet wheel when fluid pressure is applied to the tube to cause release of the ratchet wheel.

2,650,502
BALANCING MEANS FOR FLOATED GYROSCOPES
John E. Lundberg, Lynn, and Harry G. Swanson, Belmont, Mass., assignors to General Electric Company, a corporation of New York
Application November 30, 1949, Serial No. 130,118
6 Claims. (Cl. 74—5)

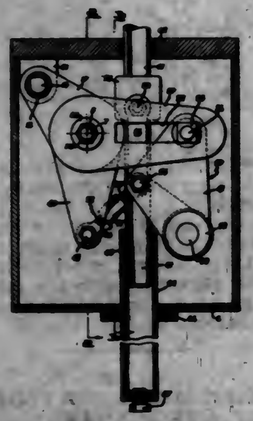


1. In combination with a floated gyroscope instrument having a liquid-tight substantially spherical housing for the gyro rotor structure thereof immersed in a liquid, a buoyancy balancing device comprising an expansible and contractile bellows member extending inwardly of the outer surface of said housing, said member being closed at one end and being sealed in liquid-tight relationship with said housing at another open end disposed opposite an opening in said housing through which said liquid fills said bellows member, an internally-threaded member affixed to said one end of said bellows member, an externally-threaded rotatable shaft engaging said internally-threaded member, and means supported by said housing for preventing axial movement of said shaft, whereby rotation of said shaft varies the axial length of said bellows and changes the balance of said housing and rotor structure due to buoyancy.

2,650,503
CONE VALVE OPERATOR
Ray Bacchi, Daly City, Calif., assignor to The Pelton Water Wheel Company, San Francisco, Calif., a corporation of California
Application November 9, 1951, Serial No. 255,717
6 Claims. (Cl. 74—22)

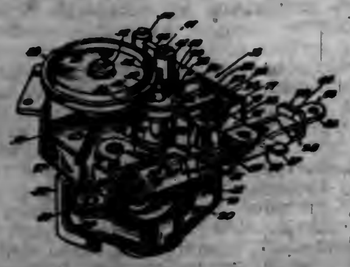
1. A cone valve operator comprising a casing, a first threaded nut fixed in said casing, a sleeve

having two oppositely threaded portions, one of said threaded portions engaging said first nut, a second threaded nut engaging the other of said threaded portions, a valve stem disposed within said sleeve, a collar integral with said second nut, means for constraining said collar and said stem to relative rotation and against relative axial translation, a forked lever fast on said stem and providing a slot, an actuating



lever pivoted in said casing, a pin on said actuating lever disposed in said slot, a first arm extending from said sleeve, a link articulated to said first arm and to said actuating lever, a second arm extending from said second nut, means for constraining said second arm to axial translation and against rotation relative to said casing, an actuating shaft mounted for translation in said casing, and a link articulated to said shaft and to said actuating lever.

2,650,504
PHONOGRAPH WITH THREE-SPEED TURNTABLE DRIVING MECHANISM
Arthur K. Tateishi, Toronto, Ontario, Canada, assignor to Audio Tool and Engineering Limited, Toronto, Ontario, Canada
Application June 25, 1952, Serial No. 295,425
10 Claims. (Cl. 74—190)



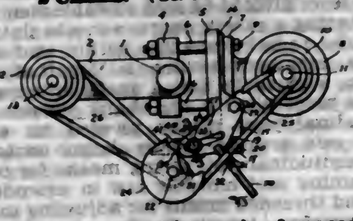
1. In a phonograph of the type that embodies a horizontally disposed record-supporting turntable with a depending flange on its outer margin; mechanism operative to drive the turntable at three different speeds and comprising mounting means beneath the turntable, a horizontally disposed idler wheel mounted on said means so that it is held against vertical displacement while at the same time it is movable laterally into and out of engagement with the flange of the turntable, spring means arranged to urge the idler wheel into engagement with the turntable flange, a single speed electric motor mounted substantially fixedly on the aforesaid means and embodying an armature arranged to rotate about a vertical axis and a vertically extending armature shaft having the lower end thereof fixedly connected to the armature and its upper end terminating adjacent the idler wheel and adapted when in direct engagement with said idler wheel while the motor is in operation to effect low speed drive of the turntable through the medium of said idler wheel, a rigid drive wheel extending directly around, and mounted for vertical sliding movement on, the upper portion of the armature shaft, provided with means between it and the shaft for causing it at all times to rotate conjointly with the armature shaft, embodying an upper small diameter cylindrical driving part and a lower large diameter cylindrical driving part, adapted when the upper end of the armature shaft is in direct driving relation with the idler wheel to assume a neutral position wherein its upper part is below the upper end of the armature shaft, and further adapted when slid partially upwards from its neutral position to have its upper part brought into an operative position wherein it surrounds said upper end of the armature shaft and serves when in direct engagement with the idler wheel and while the motor is in operation to effect intermediate speed drive of the turntable through the medium of the idler wheel and when slid fully upwards to have its lower part brought into an operative position wherein it surrounds said upper end of the armature shaft and serves when in direct engagement with the idler wheel and while the motor is in operation to effect high speed drive of the turntable through the medium of said idler wheel, and manually operable means for sliding the drive wheel up and down into its various positions.

2,650,505
DEVICE FOR CONVERTING ONE FORM OF ROTARY MOTION INTO ANOTHER FORM OF ROTARY MOTION
Russell E. Vannatta, Cincinnati, Ohio
Application January 18, 1950, Serial No. 139,240
2 Claims. (Cl. 74—217)



1. In a device of the class described, the combination of a driving shaft; a driving pulley fast on said shaft; a stub shaft; a driven pulley loose on said last-mentioned shaft and lying in the same plane as said driving pulley; an endless belt operatively connecting said pulleys, said belt having a driving side and a return side and being of such a length as to enable a belly to be formed therein intermediate said pulleys; and a cyclically operable means for alternately increasing and decreasing the length of said belt on the driving side thereof so as to cause the speed of said driven pulley to vary in a cyclical manner, said means including an intermediate shaft lying between said driving shaft and said stub shaft and; to one side thereof so as to form a triangular arrangement of the three shafts, means operatively connecting said driving shaft with said intermediate shaft so as to cause the speed of the latter shaft to bear a predetermined ratio to the speed of said driving shaft, an idler pulley engaging with the driving side of said endless belt, and means carried by said intermediate shaft for supporting said idler pulley in the same plane as said driving and driven pulleys with the axis of said idler pulley located eccentric to the axis of said intermediate shaft, whereby the movement of the idler pulley toward and from the plane including the axes of the driving and stub shafts, as the intermediate shaft rotates, will cause the length of the driving side of the belt to be alternately increased and decreased and the speed of the driven pulley to be increased and decreased accordingly; means for automatically taking up the slack in the return side of said belt as the length of the belt on the driving side is reduced; and means for varying the amount of eccentricity of said idler pulley with respect to said intermediate shaft whereby the extent of increase and decrease in the speed of the driven pulley may be controlled.

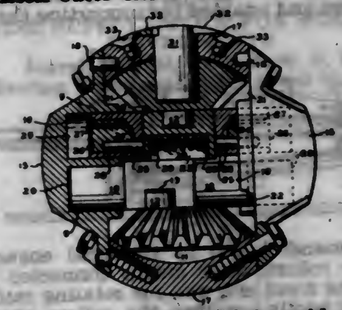
2,650,506
BELT ADJUSTER
Kenneth Ray Montgomery, Coos Bay, Oreg.
Application June 21, 1950, Serial No. 169,373
2 Claims. (Cl. 74—242.15)



1. In combination with a pair of spaced shafts and pulley means on the said shafts; a coupling device comprising a support, bracket means mounted pivotally on the support, a third shaft mounted on the bracket means for axial rotation, pulley means on the third shaft, belt means interconnecting the pair of shafts with the third shaft, an actuating arm mounted pivotally on the support a spaced distance from the pivot support of the bracket means, the pivoted bracket means being positioned to support the pulley means of the third shaft intermediate the pulley means of the pair of shafts whereby to move the pulley means of the third shaft toward both pulley means of the pair of shafts simultaneously to loosen the belt means and away from both pulley means of the pair of shafts simultaneously to tighten the belt means, and locking means releasably interconnecting the bracket means and actuating arm for releasably securing the latter together.

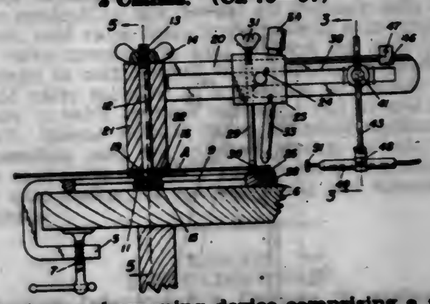
2,650,507
DIFFERENTIAL RESISTOR
De Witt C. Chittenden, Watertown, N. Y.
Application August 7, 1952, Serial No. 303,120
5 Claims. (Cl. 74—711)

1. The combination with a vehicle differential having a rotary gear carrier and a pair of differential pinions carried thereby meshing with side gears on the axle shafts of the vehicle drive wheels, of a differential resistor reciprocally connected to each of said differential pinions within said carrier and interposed between said differential pinions and also between the side gears, said resistor freely permitting slow relative rotations of said pinions to each other and progressively resisting greater relative rotations of said pinions to each other and preventing free rotation of either pinion relative to the other, each said resistor comprising a double ended piston, a cylinder for each end of said piston within which the piston end extends, a passage connecting each cylinder to the differential fluid in said carrier when its piston end has withdrawn the maximum stroke therefrom, a passage through each piston outer end to the inner end thereof



and to the differential fluid in said carrier, a valve plunger in each piston outer end for closing said passage to its inner end to the differential fluid, and means normally and yieldably resisting the closing operation of said valve plunger as said piston reciprocates in its cylinder to permit said valve plunger to close its passage as the relative rotational speed of said pinions increases and thereby limit the differential speeds of said pinions to each other to thus differentially limit the relative rotational speeds of the vehicle wheel shafts to each other.

2,650,508
SAW SHARPENING DEVICE
Carl E. Copley, Colma, Calif.
Application June 23, 1951, Serial No. 233,172
2 Claims. (Cl. 76—37)

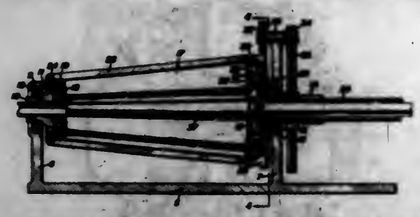


1. A saw sharpening device comprising a supporting clamp having a horizontal portion, a saw positioning standard slidable on said clamp, a fixed slotted arm carried by said standard and overlying said clamp and arranged parallel to said horizontal portion, a grinder wheel pivotally carried by said arm and adapted to be moved into contact with the periphery of said saw.

2,650,509
WIRE AND TUBING ROLLING MACHINE
Donald E. McCray and Donald C. McCray, Fairview, Pa.
Application October 16, 1950, Serial No. 190,414
2 Claims. (Cl. 80—13)

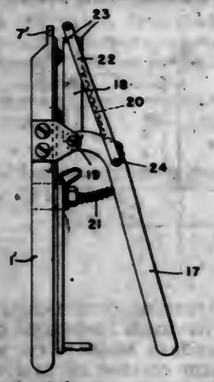
1. A tube rolling machine comprising an elongated rotatable casing including front and rear

end walls having hollow hubs adapted for the passage of tubing therethrough and with which at least the front hub is frictionally engaged, a plurality of tapered pressure rollers journaled eccentrically at each end in the opposite end walls of the casing and with the smaller ends of the rollers converging rearwardly and adapted to reduce tubing inserted in the front hub and fed rearwardly between the rollers, a tapered mandrel movable longitudinally into and out of the hub of the front end wall into a position between the rollers and adapted for supporting the tubing



on the mandrel and in frictional engagement with the rollers, drive means connected to the hub of the front end wall for rotating said front hub and bodily rotating the rollers about the work in one direction, and means connecting the rollers to the drive means for rotation of the rollers about their axes in a direction opposite to the direction of rotation of said hub, the opposite turning movement of the rollers and hub counteracting each other to hold the work nonrotatable while passing through the hubs and between the rollers.

2,650,510
WIRE CLAMP APPLYING DEVICE
Kenneth Charles Hart, Redhill, England, assignor to The Distillers Company Limited, Edinburgh, Scotland, a British company
Application March 27, 1950, Serial No. 152,097
In Great Britain April 8, 1949
1 Claim. (Cl. 81—9.3)



A clamping tool for use in applying tension to wires which comprises a first lever provided at one end with a guide hole, a second lever, a clamping head, a link member and a clamp member, said first lever being rigidly fixed at an intermediate position in the length thereof to said clamp member, the second lever and clamping head being independently pivoted to such clamp member on a common pin, the link member being pivoted to the second lever at an intermediate position in the length thereof and extending round the end of the clamping head remote from the end pivoted on said clamp member.

2,650,511
CAM-LEVER CONTROLLED, SLIDABLE JAW WRENCH WITH TOGGLE LOCKING MEANS
Clarence E. Aden, Milwaukee, Wis.
Application April 22, 1952, Serial No. 283,562
3 Claims. (Cl. 81—97)



1. A pivoted jaw wrench including a handle portion, a fixed jaw integral therewith, a member movable longitudinally on said handle portion, a lever pivoted on said movable member, said lever having a ninety degree arcuate slot therein, a circular radial projection within said slot, said handle member having a longitudinal slot therein, a movable jaw, a shank integral therewith, a pivot pin for the shank slidable in said longitudinal slot, means pivoted on said pin within said arcuate slot in sliding contact with said longitudinal slot, spring means for normally maintaining said movable jaw in extended position, and threaded means for adjusting said movable member longitudinally of said handle portion.

2,650,512
PIPE WRENCH WITH NUT FULCRUMED PIVOTED OUTER JAW
Walter J. Johnson, Buffalo, and Carl G. Ertell, Eggertsville, N. Y., assignors to J. H. Williams & Co., Buffalo, N. Y., a corporation of New York
Original application July 14, 1950, Serial No. 173,904. Divided and this application November 21, 1951, Serial No. 257,464
6 Claims. (Cl. 81—101)



1. In a pipe wrench comprising a handle provided with a fixed jaw and a frame, a movable jaw having a shank extending through said frame and spring means within the frame resiliently suspending the shank of the movable jaw, characterised in that the spring means consist of two separate springs removably mounted in the frame, one at the front and the other at the rear of the frame, one of said springs being bowed inwardly of the frame and at its mid-point being substantially tangent to the shank of the movable jaw and providing a rocking or pivot point for the movable jaw shank.

2,650,513
GUITAR STEEL
Roy L. Miller, Westwood, Colo.
Application July 29, 1949, Serial No. 107,434
4 Claims. (Cl. 84—319)



1. A guitar steel comprising an elongated body having a lower, longitudinally extending portion, rounded at the bottom and at one end, and an upper portion having beveled ends, said upper and lower portions being shaped to provide a groove on one side; and a transversely pivoted member adapted to encircle the finger of a user when said finger extends along the top of said upper portion.

2,650,514
REED ORGAN WIND SUPPLY
Joseph Robetti, Great Neck, N. Y.
Application June 1, 1950, Serial No. 165,547
1 Claim. (Cl. 84—355)



In a portable musical instrument of the class described, the combination of a tubular pedestal section having a chamber therein, a motor and associated blower mounted in said chamber between the ends thereof having an air intake means and exhaust means, said chamber having air inlet means in communication with said intake means, having air outlet means in communication with said exhaust means and having an air by-pass port intermediate said exhaust means and said outlet means, a member pivotally mounted in said chamber having a portion adjacent said by-pass port for varying the effective opening area of said port, a foot pedal pivotally mounted on said pedestal, linkage means connecting said member and said pedal, spring means for urging said member into a position to unclose said by-pass port, a switch adjacent said pedal for controlling said motor, and means on said pedal for operating said switch.

2,650,515
WIND SUPPLY DEVICE FOR MUSICAL INSTRUMENTS
Joseph Robetti, Great Neck, N. Y.
Application January 18, 1951, Serial No. 206,571
1 Claim. (Cl. 84—355)



In a musical instrument of the class described, a pressurized air supplying device for air operated sound producing means comprising a casing divided into a first, second, and third chamber section, said first section having an air outlet, said second section having an air inlet and said third section having an air outlet; air pressurizing means including a motor and a blower having an air outlet in communication with said first section and having an air inlet in communication with said second section; a resistance element in said third section electrically connected with said motor; a conduit connecting said first and third sections for directing air to said resistance element to effect cooling thereof; a valve for controlling the flow of air through said conduit, said valve including a port in said conduit; a valve member in said conduit for said port; means in said conduit for normally maintaining said valve member in a position to unclose said port; a valve member operating rod in said conduit; means in said third chamber section for operating said rod to effect closing of said port by said valve member; and means at the exterior of said casing for operating said last mentioned means.

2,650,516
DASH LINER CLIP
Ougljesa Jules Peupitch, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application February 1, 1950, Serial No. 141,712
3 Claims. (Cl. 85—5)



1. A two-piece fastener unit for securing a plurality of apertured work pieces together comprising a solid stud element and a resilient sleeve

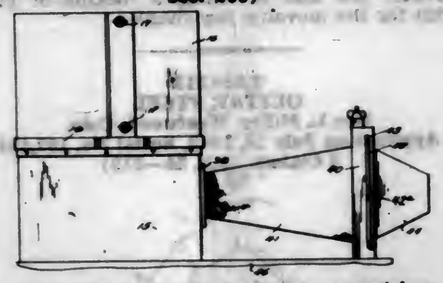
member in the form of a split cylinder, said stud including a shank, a head adjacent one end of said shank for engaging one surface of a complementary apertured work piece, an enlargement in the vicinity of the entering end of said shank providing a shoulder spaced axially from said head, said sleeve loosely encircling said shank and secured against longitudinal movement relative thereto by abutment with the head at one extremity and abutment with said shoulder at the other extremity, and a plurality of rigid longitudinally spaced struck-out shoulders extending radially outwardly with respect to the periphery of said sleeve member, said sleeve member being resiliently collapsible toward said shank as an incident to initial insertion thereof within a work aperture and being adapted to expand radially outwardly after continued insertion whereby to cause a protuberance and said sleeve body to be moved into engaging relationship with the side of a work piece oppositely disposed from the stud head and the wall defining the aperture in said work piece.

2,650,517
PHOTOGRAPHIC METHOD FOR MAKING GEOGRAPHIC MAPS
Gerhard Ernst Albrecht Falk, Hamburg, Germany
Application February 10, 1949, Serial No. 75,656
In Great Britain August 27, 1948
7 Claims. (Cl. 33—24)



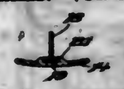
1. A method for producing a geographical map having a scale gradually decreasing in all directions, comprising in combination, the steps of placing a flat map having an invariable scale with a straight line in the plane thereof parallel to a light sensitive surface; bending the map about said straight line out of said plane parallel to said light sensitive surface and away from the same into two portions arranged symmetrically to a plane passing through said straight line normal to said light sensitive surface, and projecting the map on said light sensitive surface whereby a distorted reproduction is produced showing the map at a scale gradually decreasing in two opposite directions normal to and away from said line; placing a map produced by the above method with another straight line in the plane thereof and extending at an angle to said first-mentioned straight line and crossing the same parallel to another light sensitive surface; bending said map produced by the above method about said other straight line out of said plane parallel to said other light sensitive surface and away from the same into two portions arranged symmetrically to a plane passing through said other straight line normal to said other light sensitive surface; and projecting said map produced by said above method on said other light sensitive surface whereby a distorted reproduction is produced showing the map at the scale gradually decreasing from the point of intersection between said straight line and said other straight line.

2,650,518
APPARATUS FOR MEASURING FEET
William J. Zaroff, Philadelphia, Pa., and Ladislav Beer, Bethesda, Md., assignors to the United States of America as represented by the Secretary of the Army
Application March 23, 1951, Serial No. 217,041
6 Claims. (Cl. 33—24)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. Apparatus for viewing feet comprising, in combination, a source of diffused artificial light; a casing for confining the light, said casing having an opening at its top admitting the foot; a transparent horizontal panel fixed within the casing below the source of diffused light and adapted to support the weight of the body of the subject when standing on said panel, a mirror set within the casing below said transparent panel so as to receive the image of the foot when the foot is supported on said transparent panel so as to be interposed between the source of light and the mirror; said mirror projecting a reflected image of the foot substantially at right angles to the sole of the foot; a lens and holder therefor set so as to receive said reflected image; and a translucent screen supported so as to receive said reflected image from the opposite side of said lens.

2,650,519
NOSE PAD FOR OPHTHALMIC MOUNTINGS
Frederic I. Miner, Warwick, R. I., assignor to Welsh Manufacturing Company, a corperation of Rhode Island
Application October 19, 1949, Serial No. 122,230
2 Claims. (Cl. 33—48)

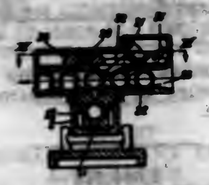


1. A nose pad for an ophthalmic mounting comprising a plate of uniform thickness, a wall extending from the rear surface of said plate and inwardly from its periphery to provide a cup, the bottom wall of which is the thickness of the plate, said plate and cup being of thermoplastic material, and an attaching arm having a head of a size to be received in said cup and be retained therein by the wall being heated and deflected over said head.

2,650,520
AUTOMATIC FIREARM
Hanns Lippert and Erwin Hepperle, Zurich, Switzerland, assignors to Verwaltungsgesellschaft der Werkzeugmaschinenfabrik Oerlikon, Zurich-Oerlikon, Switzerland
Application June 27, 1946, Serial No. 679,599
In Switzerland July 6, 1945
4 Claims. (Cl. 89—33)

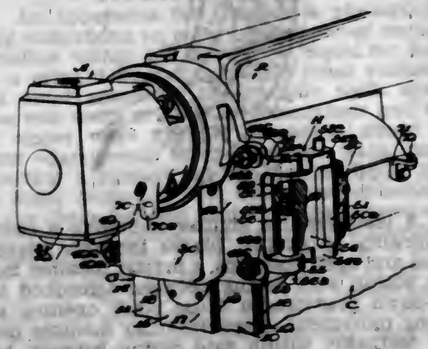
1. In an automatic firearm, the combination of an outer casing in the form of a laterally open

structure, and consisting essentially of an upper portion and a bottom cradle portion, a laterally accessible breech block casing movable axially within the outer casing and supported slidably on the cradle portion and sliding on the inner surface of the upper portion of the outer casing, a breech block slidable axially within the breech block casing, the breech casing and outer casing,



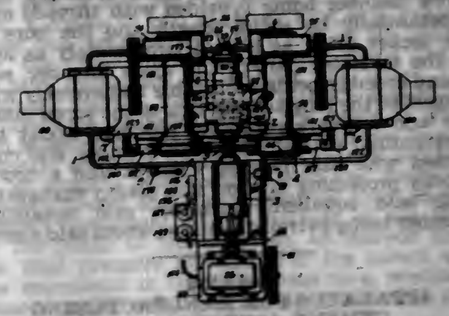
and likewise the breech block and breech block casing having interfitting rectilinear guide elements whereby the breech block casing and the breech block move parallel to the longitudinal axis of the firearm for the full extent of their movements, trigger mechanism and a buffer spring system therefor, both carried by the outer casing, and a cartridge feed frame likewise carried by said outer casing.

2,650,521
MEANS FOR MOUNTING MACHINE TOOL ATTACHMENTS
Freddy Steinbrecher, Racine, Wis., assignor to George Gorton Machine Co., Racine, Wis., a corporation of Wisconsin
Application April 7, 1950, Serial No. 154,586
12 Claims. (Cl. 90—11)



1. The combination with a machine tool having a supporting column, and an attachment unit adapted to be supported on the machine in either an operative position at the forward side of said column or a storage position at one side of the column removed from and unobstructing the forward side thereof, of a crane member swingably mounted at the storage side of said column, a hinge mounting for said crane member at the storage side of said column, said hinge mounting including a spindle member journaled for rotation about a vertical axis, said crane member being pivotally mounted on said spindle member for pivoting thereon about a vertical axis located eccentrically relative to the axis of rotation of said spindle, and said attachment unit being pivotally mounted on said crane member for swinging thereon independently thereof about a vertical axis and for horizontal movement bodily along a straight line path with said crane member by movement of said eccentrically located pivot through an arcuate path with rotation of said spindle member.

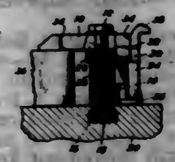
2,650,522
TURN MILLING MACHINE
Louis E. Godfriaux, Madison, Wis., assignor to Gisholt Machine Company, Madison, Wis., a corporation of Wisconsin
Application October 21, 1946, Serial No. 704,039
29 Claims. (Cl. 90—15)



1. In a turn milling machine adapted to mill crankshafts and the like wherein a plurality of eccentric pins to be milled travel in an orbit around the axis of the shaft as the spindle and workpiece rotate, a rotary milling cutter for each pin to be milled, the cutters for oppositely disposed pins being disposed on opposite sides of the workpiece, slides supporting said cutters for reciprocating movement toward and away from the workpiece in a direction in a plane substantially normal to the axis of rotation of the workpiece, means to traverse and feed said slides, cam means rotated in unison with the spindle for controlling the feed of said slides to cause said cutters to follow the orbits of the corresponding pins and mill the pins on substantially all sides thereof, and means responsive to the completion of a single revolution of said spindle to cause said traverse and feed means to retract the slides and cutters from the workpiece without further rotation of the spindle.

20. In a machine of the class described, a headstock, a rotary spindle in said headstock, a tailstock, a rotary spindle in said tailstock aligned with said headstock spindle, a slide supporting said tailstock for axial movement toward and away from said headstock, a common drive for said spindles, a work chuck carried by each spindle, hydraulic means initially operating said chucks under a light clamping pressure, and means for thereafter applying final operating pressure thereto.

2,650,523
HOLDDOWN CLAMP
Kurt Zwick, Munich, Germany, assignor to Hans Deckel, Munich-Solln, and Friedrich Wilhelm Deckel, Post Tutzing, Germany
Application April 14, 1952, Serial No. 282,242
In Germany April 27, 1951
5 Claims. (Cl. 90—59)



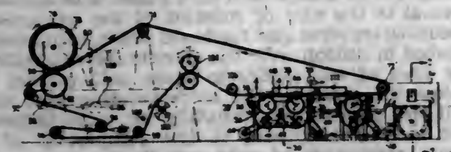
5. A clamping device for securing work pieces or the like on holding elements such as machine tables which comprises a double-armed clamp, a holding element, an equalizer arrangement sup-

ported on the holding element, a screw device engaging said clamp and said holding element so that said clamp rests with one arm on said equalizer arrangement and the other arm supported on the work piece, said screw arrangement consisting of a threaded socket and a screw member adjustably engaging said socket, said screw member being provided with threads over substantially its entire length and the bore of the socket being at least approximately as long as the threaded part of the screw member, said clamp member being adjustable transversely with respect to the longitudinal axis of the screw member and a sleeve rotatably mounted about the longitudinal axis of the screw member and connected with said holding element and a downwardly projecting arm on said clamp engageable with said equalizing member, said equalizing member being swivelly mounted about said sleeve.

2,650,524
APPARATUS FOR MANUFACTURING CEMENT-ASBESTOS BOARD

William Bernard and Joseph Bernard, West Millington, N. J., assignors to American Asbestos Industries, Inc., Berkeley Heights, Township of New Providence, N. J., a corporation of New Jersey

Original application June 6, 1946, Serial No. 674,998. Divided and this application August 25, 1949, Serial No. 112,230
5 Claims. (Cl. 92—43)



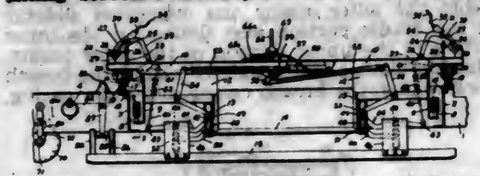
1. In an apparatus for manufacturing cement-asbestos board, the combination of, a molding vat adapted to contain cement-asbestos slurry, an imperforate uncovered collector roll mounted to rotate about a horizontal axis in said vat with a portion of its surface above the level of the slurry in the vat, means to rotate said roll so as to carry an exposed film of slurry up on the uncovered surface thereof to the top of the roll, a pervious fibrous carrier band, a plurality of guide members for holding said band above the roll in proximity thereto and out of contact with the exposed film of slurry, means to move said band past the roll, and a suction device on the upper surface of said band above said roll to transfer from the collector roll to the undersurface of the band the exposed film of slurry on the uncovered surface of the collector roll.

2,650,525
CONCRETE PAVEMENT FINISHING MACHINE

Daniel C. Jones, Port Washington, Wis., assignor to Koehring Company, Milwaukee, Wis., a corporation

Application October 7, 1948, Serial No. 53,213
8 Claims. (Cl. 94—45)

4. In a finishing machine in combination, a traveling supporting frame, a transverse curved track and flat track mounted on said traveling frame, a carriage supported on said curved track for back and forth movement across the frame, a lever pivoted to a fixed pivot point on said carriage, a control member rollably supported on said flat track and supporting said lever at a point spaced from said fixed pivot point, a longitudinal finishing screed for action on road surfacing materials, means for suspending said finishing screed from a point on said lever, and

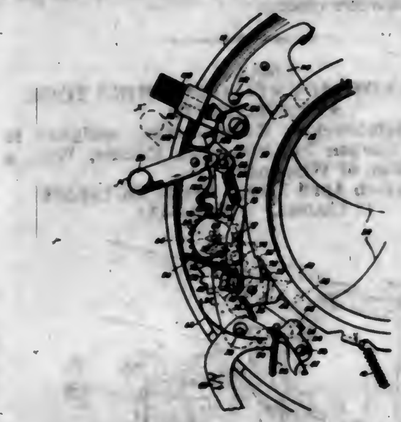


means to adjust said point along said lever to vary the influence of said control member to vary the crown.

2,650,526
PHOTOGRAPHIC SHUTTER WITH FLASH SYNCHRONIZER

Kurt Gebele, Munich, Germany, assignor to Hans Deckel, Munich-Solln, and Friedrich W. Deckel, Post Tutzing, Germany

Application September 19, 1951, Serial No. 247,224
In Germany September 20, 1950
18 Claims. (Cl. 95—11.5)

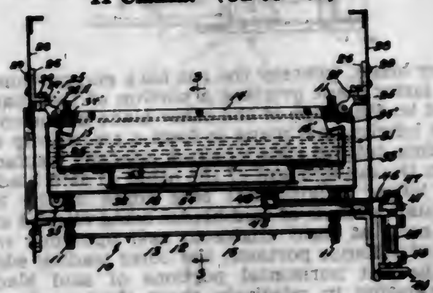


1. A photographic shutter including a casing, a plurality of shutter blades movable between closed and open positions, a master member movable within said casing between tensioned and run-down positions to cause blade opening and closing movement, a synchronizer member movable oscillably within said casing between tensioned and run-down positions, a source of driving power for said synchronizer member separate from the source of power for said master member, a first releasable latch for holding said master member in tensioned position, a second releasable latch for holding said synchronizer member in tensioned position, means for releasing said second latch so that said synchronizer member may run down, means carried on said synchronizer member for releasing said first latch during the run-down movement of said synchronizer member so that said master member runs down to cause blade opening and closing movement, a flash contact device comprising a fixed contact member and a movable contact member, a switch lever pivotally mounted within said casing to effect a swinging movement from its center position, a control cam coupled with said synchronizer member for oscillable movement, a first arm on said switch lever provided to cooperate with said movable contact member, a second arm on said switch lever provided to cooperate with said control cam, said control cam operating during the tensioning movement of said synchronizer member to cause the second arm of said switch lever to move in one direction from its center position and thus to move the first arm thereof away from the movable contact member, while during the run-down movement of said synchronizer member said control cam causes the second arm of said switch lever to move in another direction from its center position and thus to move the first arm thereof for effecting an engagement of the movable contact member with the fixed contact member.

2,650,527
PHOTOGRAPHIC PRINT TREATING APPARATUS

Arthur W. Caps, Rochester, N. Y., assignor to Photostat Corporation, a corporation of Rhode Island

Application August 18, 1951, Serial No. 242,453
11 Claims. (Cl. 95—89)



1. An apparatus for treating a photographic print comprising an outer container and an inner container within the same for a liquid for treating a print deposited into said inner container, said outer container having side walls spaced from side walls of said inner container and with the upper edge thereof extending above the upper edge of said inner container walls, means providing a passage for the flow of liquid from the inner container into the outer container to fill the space between said containers, means for mounting said containers for relative movement therebetween, said movement being in a direction at an angle to the surface of the liquid, and means for relatively moving said containers to displace the said liquid in the space between said containers to overflow from between said containers into the inner container.

2,650,528
POWER OPERATED IMPLEMENT ATTACHMENT FOR TRACTORS

André L. A. Mergen, Reims, France

Application February 3, 1949, Serial No. 75,233
In France January 18, 1949
5 Claims. (Cl. 46—50)

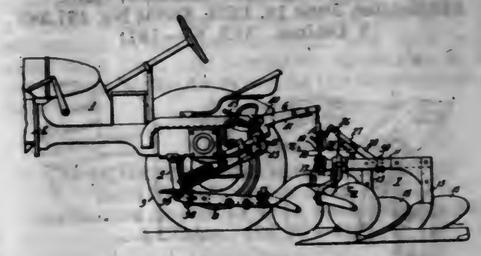


1. In a tractor having an earth moving implement pivotally mounted thereto; means for maintaining the implement at a fixed height relatively to a horizontal axis of the tractor comprising an enclosed hydraulic fluid-retaining casing in fixed association with the tractor, said casing having mounted therein a continuously operable hydraulic pump, a hydraulic jack having a hydraulic pressure chamber in fixed relation to the casing and having one end of said chamber in fluid communication with the pressure side of said pump through a valveless conduit, a piston in said chamber with said piston's inner end defining the other end of the chamber, the outer end of said piston being linked to said implement to support the latter, the chamber having along the piston's movement a discharge passage means for pressure fluid, and movable means in telescopic relation to said pressure chamber having a port therein adapted to be brought into registry with the discharge passage means at a predetermined point in the piston's movement under pressure of the fluid by the pump to the chamber, to thereby limit the fluid pressure movement of the piston and the movement of the implement to a predetermined height relatively to the horizontal axis of the tractor.

2,650,529
TRACTOR PLOW AFFORDING ADJUSTABLE WIDTH OF CUT

Willard H. Tanke, La Crosse, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

Application October 1, 1951, Serial No. 249,199
6 Claims. (Cl. 97—47.51)



1. A rear attached tractor carried implement comprising a transverse lift bar presenting opposite ends adapted for connection with a pair of laterally spaced tractor carried lift arms, a rigid plow supporting frame comprising laterally spaced forward beam portions secured to an intermediate portion of said lift bar for lateral adjustment therealong, a rigid part fixedly secured to a portion of said lift bar intermediate said forward beam portions for lateral adjustment relative thereto, and a forwardly extending generally rigid pull bar presenting a forward end adapted for connection with a tractor and having its rear end secured in fixed vertical relation to a portion of said part through means affording limited horizontal angular shifting of the rear end of said pull bar relative to said part.

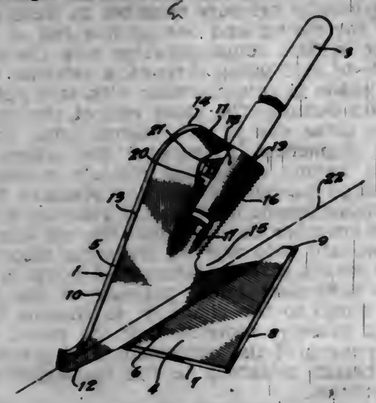
2,650,530
GARDEN TOOL

Jerome H. Schmidt, Burbank, Calif.

Application November 29, 1948, Serial No. 62,499
1 Claim. (Cl. 97—86)

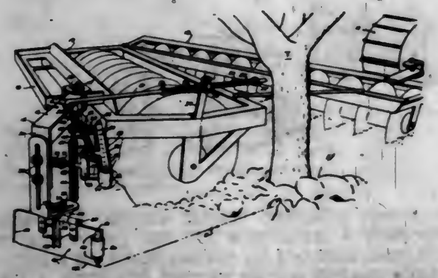
A garden tool, including a metal blank bent to provide two portions in substantially right-angular relationship, one portion being of greater area than the other portion thereof and both portions being substantially triangular in outline; the portion of greatest area provided with a forwardly extending hook and a leg of said portion and said hook being bevelled to provide a cutting

edge extending between one leg thereof and the line of bend between the two portions, the portion of greatest area provided with a reentrant



V-shaped slot and one edge bounding said slot provided with teeth, and the portion of lesser area having two of its legs bevelled to provide cutting edges.

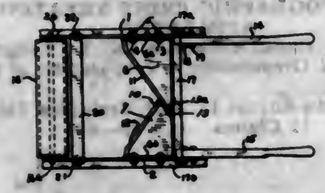
2,650,531
YIELDABLE VINEYARD HOE ATTACHMENT FOR EARTH-WORKING IMPLEMENTS
James H. Rentfrow, Hollister, Calif.
Application June 10, 1950, Serial No. 167,366
7 Claims. (Cl. 97—137)



1. An attachment for an earth working implement comprising a main arm pivotally mounted on said implement for extension laterally therefrom, means for yieldingly holding said main arm in laterally extended position from said implement, said arm having a downturned portion, a vertical arm secured to said downturned portion and having a forwardly extending foot, a hoe blade pivotally secured to said foot, a web extending forwardly of said blade for engaging said foot to limit forward swinging movement thereof, tensioning means having one end secured to said web and its opposite end anchored to said main frame for yieldingly holding said hoe blade in its foremost position, and roller means on the leading edge of said hoe blade for engaging the trunk of a tree for guiding said hoe blade for movement partially around said tree trunk during movement of said implement and its attachment past said tree.

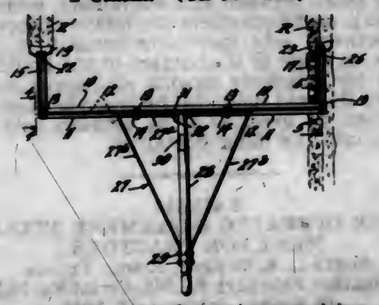
2,650,532
SOD CUTTER
Dionis E. Moldowan, Detroit, Mich.
Application June 17, 1950, Serial No. 168,751
1 Claim. (Cl. 97—226)

In a sod cutting device, in combination, a supporting frame having a pair of transversely spaced generally parallel bars, a pair of oppositely mounted transversely extending sod cutting blades, each blade comprising a flat substantially right triangular horizontal portion and an upturned substantially rectangular flange portion at its shorter base, each of said upturned flange portions being provided with means for rigidly and adjustably attaching same to one of said parallel bars with the horizontal portions in coplanar relation, the hypotenuse edge of each of said horizontal portions being sharpened and positioned as the leading edge of the blade, the inner end portion of one of said blades being cut back on a line parallel with and closely adjacent to the sharpened leading edge of the



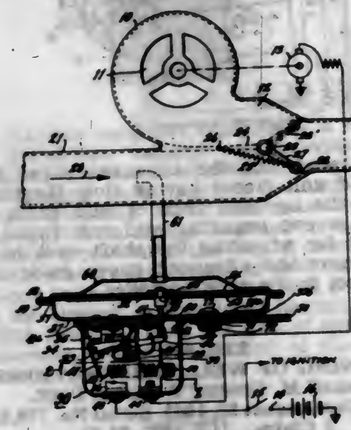
other blade, whereby the cut back end portion of the latter blade overlaps a portion of the sharpened leading edge of the other blade in the common longitudinal plane to form a rearwardly extending cutting apex which is laterally displaced from the pointed end of the other of said blades, the longer longitudinal base edges of the triangular portions of said blades being aligned and arranged at right angles to said upturned rectangular flange portions, the outer leading edges of the flat horizontal portions of said blades terminating in relatively short sharpened portions arranged parallel to said base edges, and the leading vertical edges of said upturned flange portions being sharpened.

2,650,533
ROW MARKER
Wayne W. Gelling, Springfield, Ill.
Application October 16, 1951, Serial No. 251,584
1 Claim. (Cl. 97—228)



A row marking implement comprising a pair of adjustable angle bars, each bar having a horizontal flange and a vertical flange having spaced apertures therein, said vertical flanges being in back to back relation with certain of said apertures being in registry, bolts passing through said registered apertures for removably securing said bars together, a curved arm secured to the outer end of each bar and extending transversely rearwardly thereof, each arm being substantially V-shape in cross section and fixed to the horizontal flange of its respective bar, a shovel member secured to the rear end of each arm, a bracket member composed of a metal strip bent into substantially triangular shape and comprising an intermediate base portion and forwardly extending ends, said base portion having apertures therein spaced in accordance with the spacing of said apertures in the vertical flanges of said angle bars, said bolts serving to removably secure said base portion to said vertical flanges, a hollow boss projecting forwardly from said base portion, and an elongated operating handle extending forwardly from said bars and having an end inserted into said hollow boss, the intermediate portion of said handle being disposed between and secured to the forwardly extending ends of said bracket member, whereby said implement may be manually moved over the ground to form a pair of parallel rows of desired spacing.

2,650,534
AIR CIRCULATING APPARATUS
Paul L. Schneider, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 1, 1949, Serial No. 130,402
2 Claims. (Cl. 98—2)



1. An air circulating apparatus comprising a pipe connected with a compartment; a pair of ducts connected at junction with the pipe; a blower connected to one of the ducts and the other duct of said ducts being subjected to flow of air in response to forward movement of said duct; a valve pivotally mounted at the junction of the ducts, said valve normally closing the first duct and operable to open the first duct and close the second duct; a lever connected to the valve; an over-center tension spring having its ends connected respectively to said lever and a stationary part whereby said lever can be moved to snap the valve from one position to another position; switch means supported exteriorly of the ducts and pipe to control the blower; and a diaphragm control device operatively connected in said other duct by means of a Pitot tube having one end positioned with said other duct for actuating the switch means to open position when air flow pressure in said other duct reaches a predetermined position to render the blower inoperative.

2,650,535
VENTILATING AND AIR CIRCULATING DEVICE
Paul E. Herd, Tebbetts, Mo.
Application July 28, 1950, Serial No. 176,401
6 Claims. (Cl. 98—94)

2. In combination, a panel structure applicable to a window opening and having a central opening, a peripheral flange around the opening and projecting from the panel structure, and a fan unit comprising a shell having a plurality of louvers in the sides thereof, said shell being adapted to slidably engage over the peripheral flange, a plurality of concentric louvers at the ends of the shell with the outermost louver at each end spaced from the shell and smaller than the peripheral flange for positioning of said outermost louver inside of the peripheral flange when



the shell is slidably engaged over the peripheral flange, means secured to each of the end louvers and the shell for supporting said end louvers in the shell, means on the peripheral flange engageable with the end louver supporting means for latching said shell on the peripheral flange, and a motor driven fan supported in the shell for movement of air therethrough, said shell being removable from and reversibly applicable to the peripheral flange for reversing the direction of air delivered.

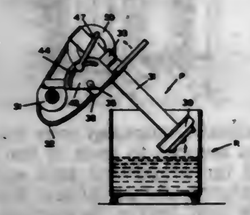
2,650,536
SPAGHETTI COOKING APPARATUS
Emil Russell, Culver City, Calif.
Application August 23, 1950, Serial No. 180,960
1 Claim. (Cl. 99—416)



Apparatus for cooking spaghetti, macaroni and the like, and preparing it for serving, comprising a plurality of receptacles each of a size to hold a measured individual serving portion, each receptacle being of greater height than diameter, having a cylindrical lateral wall including an imperforate upper portion and a perforate lower portion the axial dimensions of which are, respectively, roughly one third and two thirds of the total height of the receptacle; a cooking kettle of generally cylindrical shape, the diameter of which is related to the diameter of said receptacle so that a predetermined number of the receptacles can be arranged within the kettle without wastage of the available space therein; and a false bottom member including a flat perforate web functioning as a supporting platform and peripheral supporting means projecting downwardly from said web for resting upon the bottom of the kettle and supporting the web in an elevated position above the bottom; said perforated lower portions of the receptacles func-

tioning as measures for indicating the proper amount of uncooked food to be placed in the receptacles and also functioning to admit steam and boiling water from a body of water within the kettle, for passage into the individual receptacles and upwardly through the food and into said imperforate upper receptacle portions; said imperforate upper receptacle portions functioning to confine the food against escape from the receptacles under the action of water boiling upwardly within said receptacles.

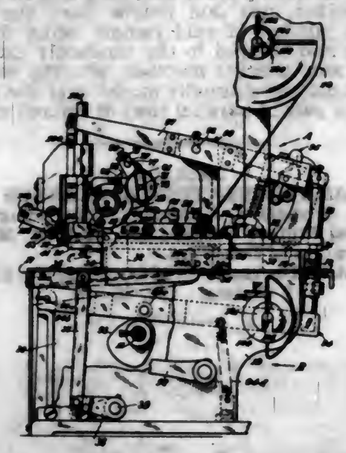
2,650,537
INKING MECHANISM FOR PRINTING PRESSES
Lucien A. Reese, Long Island City, N. Y., assignor to American Type Founders, Inc., a corporation of New Jersey
Application June 17, 1949, Serial No. 99,717
9 Claims. (Cl. 101—157)



7. The combination with a printing press having a printing cylinder, of mechanism for supplying ink or other fluid to the printing surface of said cylinder, said mechanism including a shaft mounted for rotation by the drive means of the press, a reservoir normally positioned below the cylinder and adjacent said shaft, said reservoir opening upwardly and being bodily removable from the vicinity of the press for the purpose of replacement of the liquid which it contains, means supporting the reservoir for horizontal movement toward and away from its normal position, and a pump pivotally supported upon the press and adapted to be connected to said shaft to be driven by said shaft when the press is in operation, said pump having a liquid inlet port remote from its pivotal axis which may be moved into or out of said reservoir along an arcuate path as said reservoir is moved toward or away from said press along a substantially rectilinear horizontal path.

2,650,538
PINTICKET MANUFACTURING AND ATTACHING MACHINE
Robert W. Clauss, New York, N. Y.
Original application April 30, 1947, Serial No. 744,921. Divided and this application October 25, 1948, Serial No. 56,329
5 Claims. (Cl. 101—227)

1. In a pinticket manufacturing and attaching machine, having a frame, the combination therewith, of a paper guide unit, including a frame, a printing roller supported by said paper guide unit frame over which the paper passes during the printing operation, a paper guide roller in advance of said printing roller supported by said frame disposed above the paper, prior to the printing operation, the upper surface of the printing roller being above the lower surface of the paper guide roller, a second guide roller at the other side of the printing roller supported by said frame disposed above the paper after the printing operation, the upper surface of printing roller being above the lower surface of the second guide roller, said guide rollers providing a curvature of the paper when passing over the printing roller, means securing said unit to the frame of the machine, means on the paper guide unit frame and the advanced paper guide roller for changing the curvature of the paper when passing over the printing roller, said means com-



prising a shaft for the advanced paper guide roller, said unit frame having slots therein for receiving the opposite ends of said shaft, and adjusting screws engaging said unit frame and said shaft for adjusting the shaft ends in said slots to move the advanced paper guide roller with respect to the printing roller.

2,650,539
CLEANING OF WELL PERFORATIONS
Haskell M. Greene, Whittier, Calif.
Application August 23, 1947, Serial No. 770,238
1 Claim. (Cl. 102—21.6)



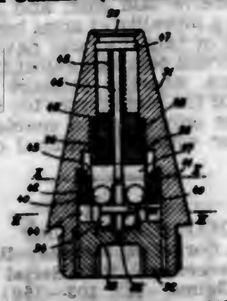
Apparatus for opening apertures in the wall of an extended length of well bore, comprising an elongated string of high velocity explosive to be lowered into the well bore and to extend coextensively with said length thereof, said string being adapted to explode substantially simultaneously along its entire length, a plurality of bodies of relatively low velocity explosive powder extending about said string at locations spaced longitudinally therealong and adapted to supplement the explosion of said string by gas generation over a relatively extended period of time, a plurality of bodies containing a mixture of hard abrasive particles and high temperature burning metallic powder and extending about said string between said bodes of explosive powder, a liquid impervious tube extending about said bodies and said string, said explosive powder and metallic powder being adapted for ignition by explosion of said string, and means for detonating said string.

2,650,540
BLASTING CARTRIDGE
Kenly C. Bugg, Fort Wayne, Ind., assignor to Materials Blasting Company, Inc., Fort Wayne, Ind., a corperation of Indiana
Application February 7, 1950, Serial No. 142,777
8 Claims. (Cl. 102—35)



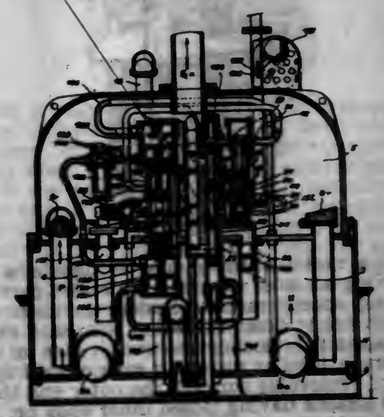
7. A blasting cartridge comprising a substantially cylindrical, flanged end provided with detonating means, a substantially cylindrical charge holding body member secured in said end and extending therefrom, relatively slow burning oxidizable means disposed in said body member for a portion of the length thereof from said end, a closure for the end of said body member spaced from said first named end, a wadding within the closure, said wadding having portions extending inwardly from the end of the closure and laterally covering a portion of the oxidizable means.

2,650,541
FUZE
Jean Rossolet, Geneva, Switzerland
Application May 27, 1948, Serial No. 95,606
In Switzerland May 28, 1948
1 Claim. (Cl. 102—71)



A mechanism for delayed setting of a fuze in rotating projectiles, comprising: a fuse body; a setting mass axially slidable in said body and having an axial bore; said setting mass comprising a slotted rear portion having a plurality of radial slots, the bottom of each slot forming an abutment on said setting mass; spring means in said body for urging said mass backwards; a plug in the rear of said body and having an axial hole and a recess; a primer in said recess; a striker guided in said axial bore and in said axial hole; a transverse collar on said striker, said collar supporting said setting mass at rest; a ring coaxial with said striker inside said body around said slotted rear portion and forward of said collar; the inner diameter of said ring increasing from its rear end to its fore end, the inner surface of said ring forming a rear conical rolling race of small angular slope with respect to the axis of the fuze and a fore conical surface of relatively greater angular slope; movable fuze setting elements having surfaces of revolution disposed and guided in said radial slots forward of said collar; said inner surface of said ring forming a rolling track for said setting elements, said setting elements abutting the fore surface of said collar during the initial rotation of said fuze; said rear conical race of the ring and said slotted rear portion having axial lengths greater than the diameter of said setting elements; said setting elements being freely movable on said rear conical rolling race, forward of said collar, for a predetermined time under the combined action of the centrifugal force upon accelerated gyration of the fuze and of their own inertia; said setting elements being thereafter adapted to roll on said fore conical surface, whereby to contact the bottom of said slots and to act on said setting mass against said spring means for setting the fuze; locking means rearward of said collar for holding said striker away from said primer before the setting of the fuze; said locking means and said setting elements being constructed and adapted to cooperate to release said collar, said striker and said setting mass by escape from said collar and from said abutments respectively only upon the action of said setting elements on said setting mass.

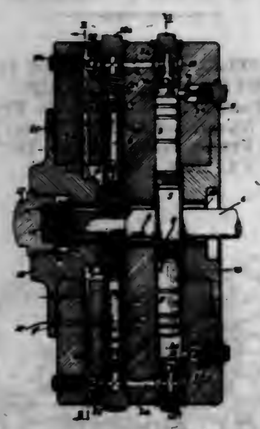
2,650,542
SERVO-CONTROL VALVE FOR HYDROSTATIC PUMPS
Jean Paul Pelouchet, Paris, France
Application November 19, 1948, Serial No. 60,905
In France November 20, 1947
9 Claims. (Cl. 103—5)



1. A hydrostatic pump combination comprising a housing having two alternately acting pump cylinders, a delivery chamber and a suction chamber, connections between said pump cylinders respectively and said delivery and suction chambers, delivery and inlet valves controlling said connections, an exhaust pipe, a source of compressed fluid, a distributor alternately and successively placing in communication said pump cylinders with the source of compressed fluid and with the exhaust pipe, a servo-control valve in fluid communication with the distributor abruptly actuating said distributor and comprising a balanced piston-valve, two oppositely located

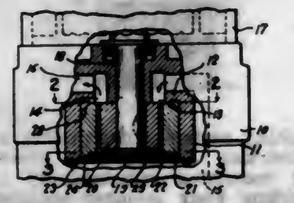
cylinders, a piston working in each of said cylinders, means operatively connecting each of said pistons to said balanced piston-valve, one of said two cylinders being connected, to one of the two said pump cylinders, and the other of said cylinders being connected to the other of said pumping cylinders, and said cylinders being connected to the said delivery chamber of the pump, whereby the pressure $P=Gx+\Delta p$ (wherein P is the pressure of the compressed fluid, Gx the hydrostatic delivery pressure, and Δp the pressure-drop) in the pump cylinder which is in the delivery phase actuates the piston in the cylinder connected to said pump cylinder by engaging one face thereof, the opposite face of the piston being subjected solely to the action of the delivery pressure Gx<P, whereas the piston in the opposite cylinder moves independently in the same direction due to the fact that it is subjected to the differential pressure between the delivery pressure Gx and the hydrostatic filling pressure H<Gx.

2,650,543
HIGH-PRESSURE RADIAL PISTON PUMP FOR LIQUIDS
Georges Pauget, Chaville, France, assignor to Societe d'Installation et d'Appareillage, Paris, France
Continuation of application Serial No. 624,028, October 23, 1945. This application October 17, 1950, Serial No. 190,539. In France October 28, 1944
19 Claims. (Cl. 103—5)



1. In a radial-piston pump for liquids, a casing having an inlet chamber, an outlet port and uniformly spaced radial cylinders the inner ends of which are in communication with said chamber, means for closing the outer ends of said cylinders, a tubular piston in each of said cylinders and removable through the outer end thereof, said pistons having closed inner ends projecting into said chamber and inlet ports to connect the same with said chamber, a central shaft journalled in said casing and rotatable within said chamber, an eccentric on said shaft having driving contact with said closed inner ends of said pistons, check valves located within said respective pistons to prevent return of the liquid through the same toward said chamber, discharge ducts connecting the outer ends of said cylinders with said outlet port, resilient means for urging said pistons against said eccentric, hydraulic means for immobilizing said pistons in their outermost positions corresponding to the end of the compression stroke when the delivery pressure of the pump exceeds a predetermined value, whereby said pump is thereupon automatically and instantaneously put out of action even though said shaft continues to be actuated by a continuous rotational movement at a suitable angular velocity, and hydraulic means for actuating said immobilizing means, said hydraulic means comprising a set of interconnected conduits respectively connected with said immobilizing means, means for connecting said set of conduits with said discharge ducts when the delivery pressure of the pump exceeds said predetermined value, and means for connecting said set of conduits with said inlet chamber when said pressure falls slightly below said predetermined value.

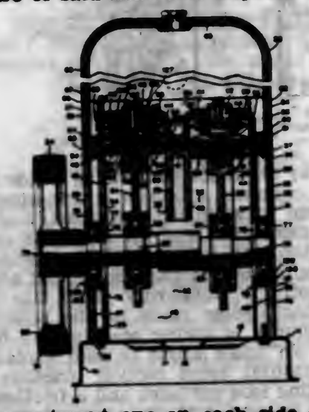
2,650,544
ROTARY PUMP ASSEMBLY
John B. Parsons, Maumee, Ohio
Application May 17, 1949, Serial No. 93,780
1 Claim. (Cl. 103—126)



A pump comprising a housing having a cylindrical cavity open at the outer end, a pair of mating toothed pump rotor members arranged one within the other and disposed within said cavity, a drive for the inner rotor member, said housing having spaced inlet and outlet ports at the inner side of said rotor members, a closure for the outer end of said cavity, the inner rotor member being of appreciably less depth than the outer rotor member so that the outer end of the inner rotor member is spaced from the adjacent end of the outer rotor member, a rigid imperforate disc spaced from the adjacent face of the inner rotor member and bearing against the outer face of the outer rotor member, a centrally disposed annular recess in the outer face of the outer rotor member to receive said disc, and a spider-like spring having a plurality of arms bearing against the outer face of said disc and having a central nubbin-like portion bearing against the inner face of said closure, whereby pressure against the outer surface of the plate forces the same against the outer rotor only so as to enable rotation of the inner rotor without frictional contact with such plate.

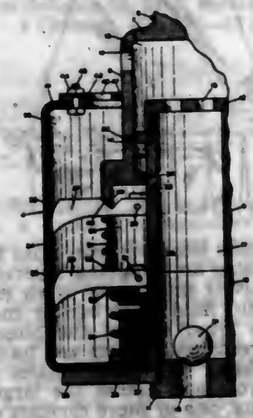
2,650,545
DIAPHRAGM PUMP
Richard T. Cornelius, Minneapolis, Minn.
Application December 2, 1949, Serial No. 130,727
2 Claims. (Cl. 103—150)

1. In a pump a body having a lateral wall structure forming a chamber therein open at the top, a partition in said body dividing said chamber into two compartments elongated in form, said wall structure and partition being curved at the ends of said compartments to make said compartments ovular in cross section, a piston in each of said compartments ovular in form, a head overlying said body and formed with a lateral wall structure and having portions disposed opposite the ends of the wall structure and partition of said body and forming two pressure compartments disposed above the first named compartments, a sheet of flexible material disposed between said head and body and engaging the ends of said wall structure and partition and said portions of the head and forming diaphragms for said pistons and a gasket between said body and head, a cap overlying said head and forming a space between said cap and said head, means on said cap and head forming a partition extending transversely of the partition in said body and dividing the space between said head and cap into an inlet compartment and an outlet compartment, outlet valves carried by the lateral wall structure of said head and disposed in said out-



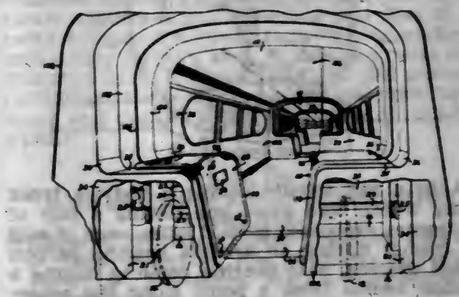
let compartment one on each side of said first named partition and bringing said respective pressure compartments into communication with said outlet compartment, inlet valves carried by the lateral wall structure and disposed on the side of said last named partition opposite said outlet valves and disposed one on each side of said first named partition and bringing said inlet compartment into communication with the respective pressure compartments and means carried by the body and connected to said pistons for reciprocating said pistons.

2,650,546
SWAB FOR TAPERED CASING OR TUBING
Howard J. Pankratz, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Original application March 11, 1947, Serial No. 733,881. Divided and this application March 23, 1951, Serial No. 217,239
2 Claims. (Cl. 103—225)



1. A swab for operation in pipe of varying diameter in a well for swabbing liquid from said well comprising in combination a first supporting member, a second supporting member in telescopic relationship with said first member, an open top rubber cup supported on said second member, said first and second members being formed with a connecting by-pass passage communicating with said well above and below said cup, an upwardly opening check valve controlling flow of said liquid through said by-pass passage, arms pivoted to one of said members and guided during resulting pivoting movement about said pivots during telescopic movement between said members by engagement with a portion of said other member, said arms having cam surfaces disposed upon untelescoping movement of said members to move into expanding engagement with said cup, frangible means holding said members in telescoped relation and said cam surfaces of said arms out of expanding contact with said cup until broken upon raising said swab in said liquid by the weight of liquid above said cup, and spring means urging said arms into engagement with said cup.

2,650,547
WHEEL HOUSING COVER
Harold G. Anderson, Fort Lee, N. J., and George B. Parsons, Roosevelt, N. Y., assignors to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application June 22, 1948, Serial No. 34,264
13 Claims. (Cl. 105—4)

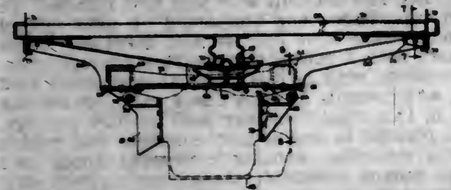


1. In a railway train, a pair of spaced cars having underframing, detachable draft coupling members connecting the cars, transversely spaced wheel housing structures secured on each side of the adjacent ends of the underframing of the cars, a foot plate spanning the space between adjacent car ends and extending between the pairs of wheel housing structures, the ends of said plate being of less width than the space between said housing structures in each car, one of said members of the draft coupling connecting said cars having a socket therein, and a pin secured to said plate projecting into the socket in said draft coupling.

2,650,548
ENGINE MOUNTING MEANS, ESPECIALLY MEANS FOR MOUNTING ENGINES BENEATH RAILWAY PASSENGER CARS
Albert G. Dean, Narberth, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 26, 1949, Serial No. 123,654
11 Claims. (Cl. 105—133)

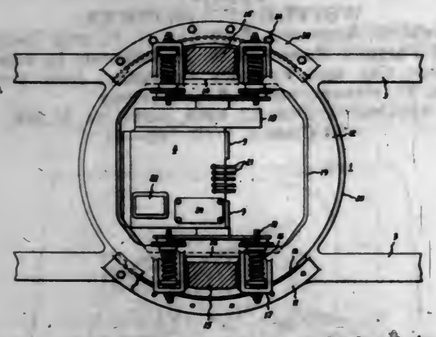
1. Mounting means for an engine unit on a vehicle comprising in combination, resilient mounting pads at the drive shaft end of the engine unit and within its width, said pads being arranged flatwise in a vertical plane transverse

to the engine drive shaft axis and perpendicular to the line of movement of the vehicle, and a



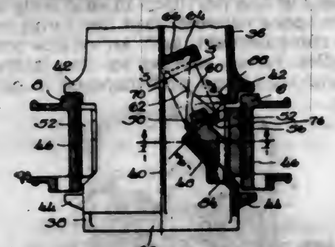
resilient mounting pad at the other end of the engine unit arranged flatwise longitudinally of the engine shaft axis.

2,650,549
RAIL VEHICLE TRUCK
Basil S. Cain and John K. Erzer, Erie, Pa., assignors to General Electric Company, a corporation of New York
Application June 17, 1950, Serial No. 168,676
18 Claims. (Cl. 105—133)



10. In a rail vehicle having a body, a truck having wheels and axles and having a pair of side frames supported by said axles, each of said side frames having an arcuate bearing portion formed thereon, said bearing portions having a common radius from a point along the center line of said truck, transoms respectively connecting said side frames on either side of said bearing portions, a center plate member having arcuate portions arranged in sliding engagement with said bearing portions forming a center bearing for said truck whereby said truck may rotate with respect to said body, said center plate member having a central portion connecting said arcuate portions, one of said axles being arranged under said center bearing, a traction motor arranged for driving said one axle, said central portion of said center plate member being spaced from said transoms permitting access to said motor, said center plate member having a pair of guiding openings formed therein respectively arranged over said side frames, a pair of sliding bearing members secured to said body and extending through said guiding openings, said bearing members slidingly bearing on said side frame for carrying the weight of said body thereon, said bearing members being adapted to slide laterally in said guiding openings for permitting lateral displacement of said truck with respect to said body, said bearing member preventing rotation of said center plate member with respect to said body, and spring means having one portion engaging a member secured to said body and another portion engaging said center plate member for restraining said lateral movement of said truck.

2,650,550
SNUBBED BOLSTER TRUCK
Raymond C. Pierce, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application July 8, 1948, Serial No. 37,540
22 Claims. (Cl. 105—197)



1. A railway car truck comprising a side frame with spaced columns, a bolster spring-supported by said frame between said columns, and friction means associated with at least one column comprising top and bottom bolster wedge surfaces converging toward each other and also extending diagonally outwardly from the longitudinal vertical center plane of the bolster toward said column, a spring seat in said bolster arranged at an acute angle to said surfaces as seen in horizontal cross section, friction shoe means engaging said surfaces and a friction surface on said column, and spring means extending between and compressed against said seat and said shoe means for tightly wedging the latter between all of said surfaces, the compressional axis of said spring means being angularly related to said wedge surfaces and to the longitudinal vertical center plane of the bolster.

2,650,551
EXTRUDER HEAD
John F. Eckels and August E. Eckels, Jr., Baltimore, Md.
Application May 11, 1951, Serial No. 225,886
3 Claims. (Cl. 107—1)



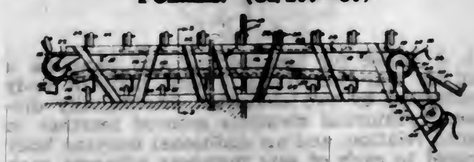
1. An extrusion head for semi-fluid filling machines comprising an elongated tapered housing, having a relatively small open upper end for receiving the said fluid from two or more filling machines, the lower end of the housing being larger and of rectangular form and having a plurality of adjoining individual nozzles extending downwardly from and across the larger end of the said housing, one or more dividers extending throughout the height of the said housing and across the small upper intake opening of the housing and extending downwardly adjacent the upper ends of each of the nozzle openings and dividing the housing into one or more compartments from the upper small opening to a point adjacent the top of the nozzles, each section of the small upper openings of the housing formed by the dividers adapted to be connected with a separate filling machine, whereby each nozzle will receive a portion of the fluid from each of the several filling machines.

2,650,552
DOUGH ROLLING APPARATUS
Frank T. Weed, Barbados, British West Indies
Application November 1, 1950, Serial No. 193,226
11 Claims. (Cl. 107—46)



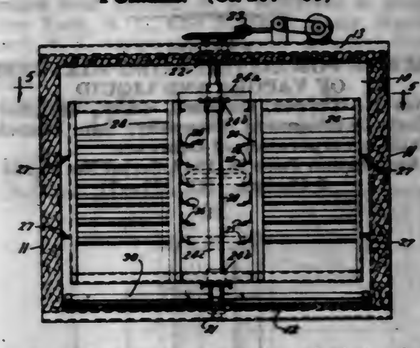
1. Dough rolling apparatus, comprising means providing a flat rolling surface, and means surrounding the surface means and having an upper edge to provide a bearing for a roller element, one of said means being rotatably shiftable relative to the other into a plurality of angular positions, said first and second means respectively having mutually engageable portions shaped for support of one of said first and second means by the other resting upon it, said mutually engageable portions including helically-extending supporting surface means on at least one of said first and second means, adapted to locate the second means with its upper edge in progressively elevated positions relative to the rolling surface respectively at the aforesaid angular positions, said mutually engageable portions being respectively fixed to the said first and second means and being shaped to be separated at every one of said elevated positions by only lifting one of said first and second means relative to the other, and said first and second means including substantially vertical faces integral with the first and second means and mutually engageable in each of said angular positions and releasable on vertical displacement of one of said means relative to the other, for retaining said first and second means against mutual rotative displacement from each of said angular positions.

2,650,553
BAKING DEVICE
Edward Dornbush, Miami Beach, Fla.
Application October 25, 1950, Serial No. 191,964
4 Claims. (Cl. 107—57)



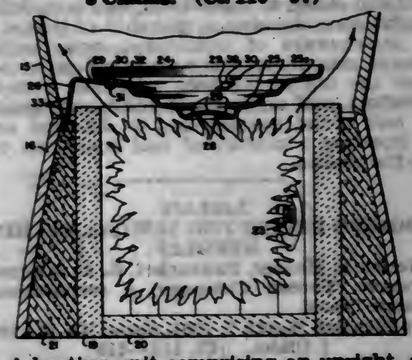
1. A baking device for bagels and the like comprising a support mountable in an oven, track means mounted adjacent upper and lower portions of said support, endless conveyor means mounted for movement along said track means, means for rotating said conveyor means, a plurality of inverted L-shaped members rigidly mounted on said conveyor means whereby said members extend upwardly when travelling along said upper track means and downwardly when travelling along said lower track means, a leg portion of each of said members extending substantially horizontally in a direction opposite to the movement of said conveyor means, said leg portion adapted to receive and maintain a bagel and the like thereon, and restraining means contained by said leg portion adapted to prevent the inadvertent slippage of the bagel from said leg portion.

2,650,554
BAKE OVEN
John Faulds, Oak Park, Ill., assignor to Faulds Oven and Equipment Co., Chicago, Ill., a corporation of Illinois
Application December 2, 1949, Serial No. 130,827
4 Claims. (Cl. 107—60)



1. In a bake oven, a casing enclosing a baking chamber having a charging opening, an upright rotary support in said chamber, and tiers of pan racks extending outward from and supported by said rotary support, each of said pan racks comprising a pair of spaced apart parallel pan-supporting members of stepped cross-section to receive and locate selectively pans of different widths.

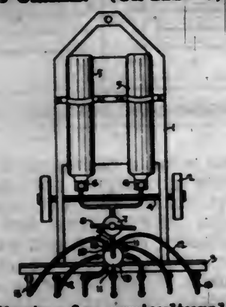
2,650,555
BAFFLE MEMBER FOR COMBUSTION CHAMBERS
William R. Howland, Milton Junction, and Ivan D. Tefft, Janesville, Wis., assignors to Vape-O-Plate Co., Janesville, Wis., a corporation of Wisconsin
Application August 14, 1950, Serial No. 179,242
3 Claims. (Cl. 110—97)



1. A heating unit comprising an upright, generally cylindrical wall having at least its inner face portion formed of a refractory material and defining a combustion chamber having an open upper end a fuel burner for delivering fuel into said chamber and burning it therein, and a combustion aid device including a hollow, generally conical baffle member formed from stainless steel and of substantially uniform thickness and having formed therein a plurality of concentric, an-

nular lands with their faces generally perpendicular to the axis of said baffle member, and a plurality of legs spaced circumferentially around and extending radially from said baffle member, each leg having a downturned end resting upon the top edge of said wall, said legs together supporting said baffle member apex-downwardly in a position generally in alignment with said combustion chamber and spaced from but sufficiently close to the top edge of said wall to define an annular outlet from said combustion chamber and whereby substantially all of the heat which is reflected by the lower face of said baffle member is reflected into said chamber.

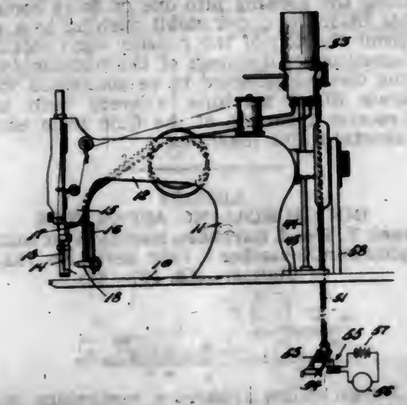
2,650,556
DEVICE FOR DISTRIBUTING MIXTURES OF VAPORS AND LIQUID
James R. Turner, Concord, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application June 28, 1948, Serial No. 35,658
9 Claims. (Cl. 111—7)



1. An applicator for agricultural use comprising a pressure cylinder for storing a volatile liquid under pressure, a supply conduit connected to said cylinder for receiving said liquid, said conduit providing a flow restriction to reduce the pressure of liquid flowing through the conduit and cause partial vaporization of said liquid, a distributor head including a casing, said casing having a substantially vertical bore connected at its upper end to said supply conduit for receiving a mixture of said liquid and the vapors therefrom and closed at the bottom, said bore defining a turbulence chamber, a plurality of lateral outlet passageways of constricted cross sectional areas in communication with said bore at points below the top of the bore extending outwardly therefrom, and separate conduit means connecting said outlet passageways to different means for injecting a mixture of said liquid and vapor into the ground.

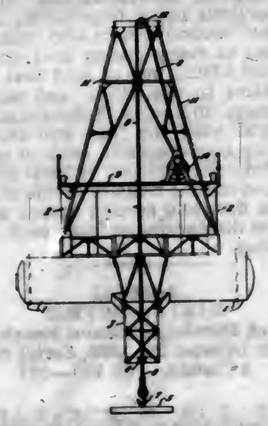
2,650,557
COOLING DEVICE FOR SEWING MACHINE NEEDLES
Frederick L. Hauser, Pawtucket, R. I., assignor to Premier Thread Company, a corporation of Rhode Island
Application March 7, 1951, Serial No. 214,295
1 Claim. (Cl. 112—218)

In a sewing machine, a reciprocating needle, a nozzle having an outlet opening directed toward said needle and having a mixing chamber communicating with said opening, air and liquid channels communicating with said mixing chamber for mixing the two fluids for joint discharge from said opening, a reservoir for a liquid, said reservoir having a base provided with parallel bores therein, one of which is open to said liquid, a source of air supply, means communicating said air source to the other of said bores, separate conduits connecting said bores each with one of



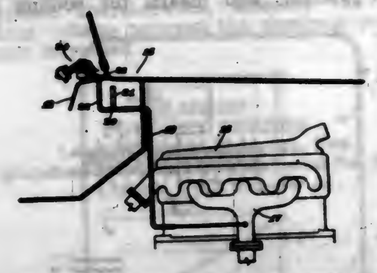
said channels, and valve means intersecting both of said bores for controlling both the said conduits at the same time.

2,650,558
TRANSPORTING FLOAT
André Raymond Marie Nisery, Paris, France, assignor to Centre National de la Recherche Scientifique, Paris, France, a corporation of France
Application April 22, 1949, Serial No. 88,931
In France April 30, 1948
4 Claims. (Cl. 114—0.5)



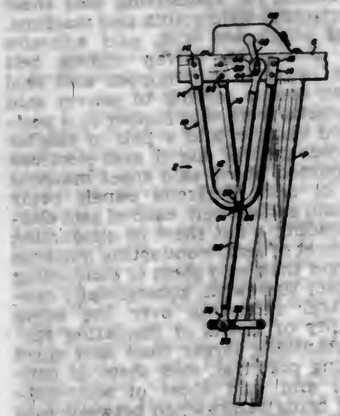
1. A device for transporting and handling a load at sea, comprising a first buoyant body constituted by two elongated, horizontally disposed, cylindrical members secured together in spaced relation, and an additional buoyant body secured to each of said members adjacent each end thereof, said additional buoyant bodies being elongated in one dimension, having a relatively small cross-sectional area with respect to said members, and positioned on top of said members with their elongated dimension in a vertical position, said device having a mass, such that, in operation, the entire first buoyant body, and a part at least, of said additional buoyant bodies, is submerged in the water, the ratio of the masses of said first and additional buoyant bodies being such that at least substantially 90% of the buoyancy of the device is provided by said first buoyant body.

2,650,559
ENGINE PERFORMANCE INDICATOR
Vern L. Waller, Tacoma, Wash.
Application January 12, 1949, Serial No. 70,427
10 Claims. (Cl. 116—114)



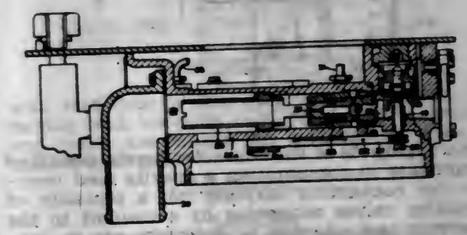
1. In combination with the vacuum producing means of an internal combustion engine, of an engine performance indicator comprising a casing having permanent and unobstructed communication with said vacuum producing means; a vacuum responsive flexible diaphragm mounted in sealed relation within said casing; anchor means fixedly secured to said diaphragm; a collapsible performance indicating device including flexible tension-transmitting means releasably connected to said anchor means, whereby flexing and reflexing movements of said diaphragm function to activate said device and thus visually and continually indicate vacuum fluctuations occurring within said vacuum producing means during engine operational periods; tension adjusting means associated with said tension-transmitting means for regulating the sensitivity of the indicating device in conformity with the degree of vacuum developed in said vacuum producing means when said engine is idling; and means for normally biasing said diaphragm towards its inactive position upon cessation of vacuum in said vacuum producing means to effect conjointly with gravity the collapse of said indicating device.

2,650,560
DEVICE FOR DETECTING UNSAFE CONDITION OF BRIDGES
Joseph Bailey Bear, Denison, Tex.
Application August 27, 1951, Serial No. 243,856
4 Claims. (Cl. 116—114)



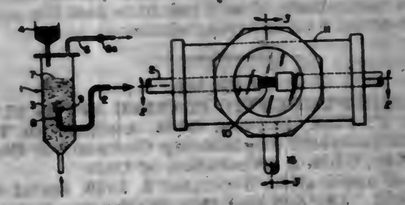
1. In a bridge structure including a cap and a supporting pile for the cap, a device for indicating relative movement between the cap and the pile, said device comprising a bracket secured to and held stationary with respect to the cap, a signal actuator bar mounted for vertical swinging movement on the bracket, a signal device operatively connected to the bar, and means pivotally connecting the lower end of the bar to the pile, whereby relative movement between the pile and cap will impart swinging motion to the bar and cause the latter to actuate the signal device to which it is connected.

2,650,561
FLUID FLOW INDICATOR
Bernard Seid, Clifton, N. J., Bradford B. Holmes, New York, N. Y., and Jacob L. Pauly, Hackensack, N. J., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application May 19, 1950, Serial No. 163,036
8 Claims. (Cl. 116—117)



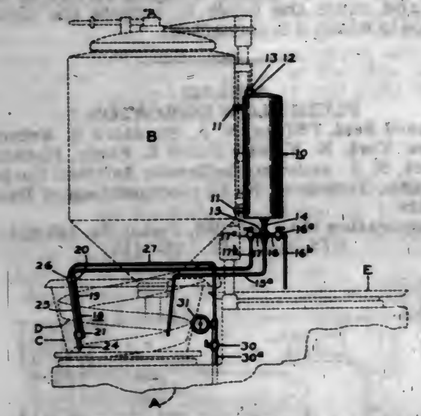
1. In a fluid flow indicator, a pressure responsive member, means for subjecting one side of said pressure responsive member to a fluid flow pressure and a pressure applied to the fluid, second means for subjecting the other side of said pressure responsive member to said applied pressure alone whereby said member is actuated in response to fluid flow pressure alone, and visual means associated with said member and operable thereby for indicating the fluid flow.

2,650,562
METHOD AND DEVICE FOR VISUAL OBSERVATION OF DENSE-PHASE SUSPENSIONS
Floyd Bonar and Coulas D. Pears, Morgantown, W. Va., assignors to the Government of the United States as represented by the Secretary of the Interior
Application December 6, 1951, Serial No. 260,296
6 Claims. (Cl. 116—117)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A method for visually observing the flow of a dense phase solids-in-gas suspension through a conduit comprising the steps of causing the dense phase suspension flowing through said conduit to jump a relatively small gap in said conduit, flowing an extraneously supplied tributary gas stream into said gap at a velocity sufficient to prevent separation of solids from said suspension at said gap, and visually observing the flow of said suspension as it crosses said gap.

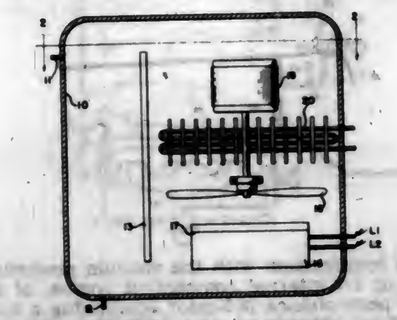
2,650,563
ROLL OILING APPARATUS FOR USE WITH ROLL-MAKING MACHINES
Walter Bingaman, Champaign, Ill.
Application July 22, 1950, Serial No. 175,445
1 Claim. (Cl. 118—24)



An apparatus of the character herein described comprising in combination a gravity feed reservoir for containing dividing oil, a plurality of regulator valves connected by a conduit to the reservoir and adapted as determinants to provide sustained flow of oil in connection with a roll-making machine, a conduit member connected to one of said regulator valves to direct the dividing oil to a point within a part of the machine, a conduit member connected to another of said regulator valves to direct said oil to a point on a part outside of the machine, and a conduit member connected to still another of said regulator valves to direct said oil to an oil spraying element adapted to spray dividing oil at a point within a part of the machine, a conduit member adapted to convey air under compression to said oil spraying element, a regulator valve and an air pressure indicator connected with said air conveying conduit member, a spray nozzle member in said oil spraying element, a bore opening longitudinally through the spray nozzle and a side opening in the nozzle, said side opening in aligned communication with a corresponding opening interiorly of the oil spraying element to effect the spraying of a regulated quantity of oil from the spray nozzle member by means of compressed air for the purpose of directing a spray of dividing oil on dough pieces carried by the mechanism of said machine past the spray nozzle of said oil spraying element.

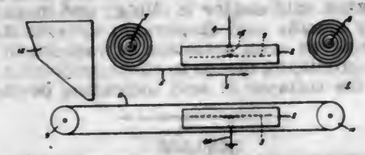
2,650,564
DYNAMIC PYROLYTIC PLATING APPARATUS
Albert O. Fink, Dayton, Ohio, assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio
Original application December 2, 1949, Serial No. 130,671. Divided and this application October 27, 1950, Serial No. 192,421
4 Claims. (Cl. 118—48)

4. Apparatus for gaseous plating of work pieces at a high rate of deposition which comprises a chamber for containing the work to be plated, means for admitting and discharging heat-decomposable gaseous metal to said chamber, means comprising a fan for causing forced circulation of said gaseous material introduced into said chamber, said fan being arranged to force the gaseous material directly upon said work to be plated, means for heating said work to a temperature to cause said heat-decomposable gaseous metal coming in direct contact therewith to be decomposed depositing the metal constituent thereof, and means for cooling said



heat-decomposable gaseous material, said cooling means being arranged in the path of the circulating gas and out of contact with said heated work to maintain said decomposable gaseous material at a temperature substantially below that at which the same decomposes.

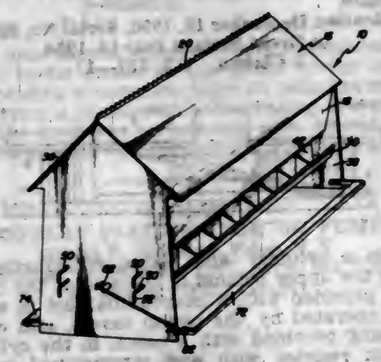
2,650,565
COATING MACHINE AND ELECTRODE PANEL THEREFOR
Laurence W. Spooner, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application December 30, 1949, Serial No. 136,120
3 Claims. (Cl. 118—51)



3. A machine for coating an adhesive covered surface of sheet material with comminuted material, comprising a hopper for storing comminuted material mounted at one end of said machine, driving means for conducting said sheet material in a horizontal strip within said machine, said strip being conducted with said adhesive surface facing downward; driven endless belt means mounted beneath said hopper and said surface, said belt means serving to convey said comminuted material from said hopper to a position beneath said surface, and a pair of similar laminated electrode panels, one of said electrode panels being mounted above said sheet material and the other of said electrode panels being mounted below said endless belt, each of said electrode panels including a flat sheet of conducting material, a flat sheet of semi-conducting material substantially larger than said sheet of conducting material in contact therewith, substantially centered thereon and extending over the edges thereof, a plurality of sheets of insulating material, each substantially larger than said sheet of semi-conducting material, said sheet of conducting material and said sheet of semi-conducting material being sandwiched between said sheets of insulating material and completely enclosed thereby and an electrical lead connected to said sheet of conducting material at the approximate center thereof on the side opposite the

contact area between said sheets and extending without said insulating member along a line substantially perpendicular to said sheet, said panels being arranged in parallel planes and being positioned in said planes so that the sheets of conducting material have the semi-conducting layers interposed therebetween, whereby the corona starting voltage between the electrode panels is greatly increased.

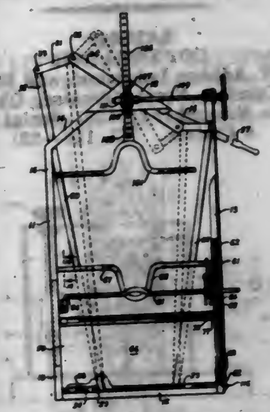
2,650,566
POULTRY FEEDER
Louis W. Rock, Caterina, Tex.
Application January 24, 1950, Serial No. 140,253
3 Claims. (Cl. 119—53.5)



1. A poultry feeder comprising a trough and a hopper arranged to discharge into said trough, an agitator in the hopper, and means adapted to be actuated by feeding poultry for actuating the agitator, said means including a pair of spaced perch support members fixed with respect to the hopper, an elongated perch extending between the members, said perch having oppositely extending pins at its opposite ends that are disposed substantially along the central axis of the perch, said members having aligned apertures rotatably receiving said pins, one of said pins projecting through one of the members and being formed with an offset portion to constitute a crank for the perch, and a pitman operatively connecting the crank to the agitator.

2,650,567
CATTLE CHUTE
Henry C. Whitworth, Scott City, Kans.
Application January 12, 1949, Serial No. 70,637
4 Claims. (Cl. 119—99)

1. A cattle chute comprising a platform, a channel frame structure having substantially arch-shaped frame members at the front and rear ends thereof, bearing members mounted on said arch-shaped members, a longitudinal shaft rotatably suspended between said bearing members, side wall sections pivotally supported on said platform, linkage means connecting upper extremities of said side wall sections to said longitudinal shaft, lever means connected to said linkage means for moving said side walls toward and away from each other, a gate slide formed of said channel frame members at the rear end of said chute, a gate mounted for reciprocal movement along said slide to adjustable elevations providing a closure for the rear end of said chute, a hinge rod at the front end of said frame, a door adapted to close off the front end of said chute, means for securing said door to the hinge rod in adjusted elevational positions for rotating movement about the pivot axis of said hinge rod, a slide formed of said channel frame members at the front end of said chute, a head yoke reciprocally mounted in said slide for cooperative use



with said door, a gear and rack mechanism for raising and lowering said yoke, and a ratchet and catch mechanism for locking said yoke in desired positions.

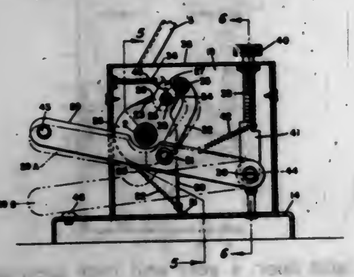
2,650,568
COPYHOLDER FOR TYPISTS
Bertha T. Veerhorst, Washington, D. C.
Application October 10, 1952, Serial No. 314,978
1 Claim. (Cl. 129—[illegible])



In a copy holder for typists, an upright sheet material standard adapted to stand behind a typewriter in close proximity thereto but not in contact therewith, an integral foot piece located at the bottom of said standard at substantially ring angles thereto, said foot piece extending rearwardly and forwardly from the standard and adapted to support the standard in firm upright position, said standard consisting of two parallel upright pieces of sheet material rigidly fastened together at each end and to the foot piece, the upright piece comprising the front side of the standard being bent rearwardly near its upper end to form a narrow horizontal flange, one member of a hinge being carried by said flange, a panel forming the support for the typists notes mounted above said standard, a forwardly extending horizontal flange at the lower edge of said panel and co-extensive with said first mentioned flange and carrying a companion hinge member, said hinge members being connected by a pintle, the top of the panel being adapted to swing downwardly to meet the foot piece and thereby forming a compartment between said

panel and adjacent upright piece to hold standard size sheet paper, the compartment between the two upright parallel sheets forming a compartment for note books and the like.

2,650,569
COPYHOLDER
Robert T. Adkins, Lakewood, and Richard J. Kuschel, North Olmsted, Ohio
Application November 29, 1951, Serial No. 258,816
8 Claims. (Cl. 120—82)



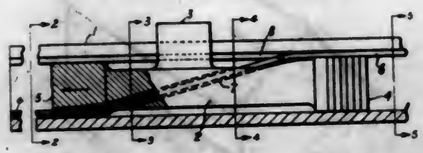
1. In a device of the character described for advancing sheets of material, a housing including a base and end walls, a sheet feed roller mounted on a shaft rotatable in said end walls, a pivoted manual lever for rotating said shaft to advance said feed roller, a drum rigid with said shaft, said drum having a pair of parallel peripheral channels, a variable clutch means including a brake band extending partially around one of said channels and anchored through a spring to said base for exerting a resilient braking effect on said drum, a second band extending around said drum in said other channel, an operating disc loosely mounted on said shaft externally of said drum and having an arm extending to be parallel on the other side of said drum, a barrel rotatably carried by said disc and extension arm and connected to the two ends of said second band, pivoted linkage means for connecting said lever, intermediate of its length, to said barrel, and through said barrel to said disc, spring means for normally holding said disc and its barrel in an upper position to release the clamping effect of said second band on said drum, said barrel, upon operation of said manual lever and its linkage connection with said barrel, being adapted to first rotate said barrel to clamp said second band about said drum and to then in sequence overcome the spring tension brake band to rotate said disc, barrel and drum to rotate said shaft feed roll and advance said sheet.

2,650,570
PENHOLDER
Billy N. Veelcker, Shreveport, La.
Application December 3, 1951, Serial No. 259,603
1 Claim. (Cl. 120—108)



A pen holder comprising a body having a substantially cylindrical socket therein for the reception of the writing end portion of a pen, said socket having diametrically opposite, longitudinal grooves therein, a bar having its end portions slidably engaged in the sockets, a guide for the reception of the point of the pen mounted on said bar, coil springs in the grooves engaged beneath the bar for yieldingly urging the cup outwardly and means in the socket for releasably securing the pen therein against the action of said coil springs.

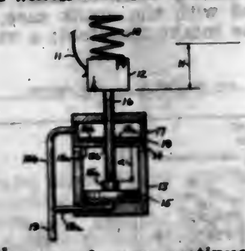
2,650,571
SEALING MEANS FOR SLOTTED CYLINDERS
Colin Campbell Mitchell, Edinburgh, Scotland, assignor to Brown Brothers & Co. Limited, Edinburgh, Scotland, a corporation of Great Britain
Application December 12, 1950, Serial No. 200,330
In Great Britain July 10, 1950
2 Claims. (Cl. 121—1)



1. In a cylinder and piston construction in which the upper portion of the wall of the cylinder is provided with a longitudinal slot in which a lug operated by the piston moves, said cylinder being provided with a recess in the cylinder bore in register with and symmetrical to the longitudinal slot therein, said piston having front and rear ends in the direction of its power stroke and being provided with a guide channel extending obliquely through the piston from adjacent the periphery of the front end thereof at its lower front side rearwardly to its upper side, the upper end portion of said guide channel being in register with said recess, and a sealing strip located within said cylinder a portion of which extends through said guide channel and into said recess, the portion of the sealing strip extending through the guide channel being adapted to be displaced radially upwardly by the forward movement of the piston in its power stroke and moved into sealing engagement with said recess, substantially the entire portion of the sealing strip in front of the piston lying along and on the bottom of the cylinder, whereby substantially the entire portion of the sealing strip lying in front of the piston in its power stroke is uniformly and continuously supported along its length.

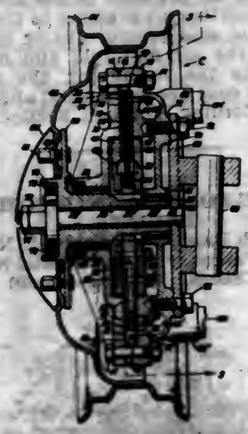
2,650,572
PNEUMATIC DRIVE AND DAMPING DEVICE THEREFOR
Arnold Amstutz, Baden, Switzerland, assignor to Aktiengesellschaft, Brown, Boveri & Cie, Baden, Switzerland, a joint-stock company
Application July 3, 1949, Serial No. 103,648
In Switzerland July 31, 1948
5 Claims. (Cl. 121—38)

1. A pneumatic drive comprising a power cylinder, a power piston slidable within said cylinder, a buffer cylinder, a buffer piston slidable within said buffer cylinder and engaged by said power piston following a predetermined undamped travel of the latter, and conduit means for admitting compressed gas from the same source to said power and buffer cylinders at one side of the pistons therein, the compressed gas in said buffer cylinder establishing a force on said buffer piston opposing movement of said power piston upon engagement therewith, and said buffer piston including throttle means effective upon initial displacement of said buffer piston by said power piston to initiate transfer of said compressed gas at a controlled rate from the side thereof on which said gas is admitted to the op-



posite side thereof upon continued displacement of said buffer piston by said power piston thereby providing a damping force on said power piston having a progressively decreasing characteristic, the pressures on opposite sides of said buffer piston being equalized at the end of its stroke.

2,650,573
ROTARY FLUID MOTOR OR PUMP
Albert F. Hickman, Eden, N. Y.
Application October 11, 1947, Serial No. 779,279
2 Claims. (Cl. 121—86)



1. A fluid drive unit comprising a housing providing a cylindrical chamber, a one piece cylindrical disk journaled eccentrically in said chamber and having opposite planar side walls fitting the side walls of said cylindrical chamber, said disk being provided with a plurality of spaced slots extending generally radially inwardly from its periphery partway into the disk and have closed bottoms, a vane fitted in each of said slots for radial movement relative to said disk and fitting said side walls of said cylindrical chamber, a ring separate from said disk arranged in an annular chamber provided in said housing concentric with the axis of said disk and adjacent the inner ends of said slots, means securing said ring to one side wall of said disk said ring being provided on its disk side with an annular channel registering with the inner end of each of said slots, means for admitting and relieving fluid to and from the space in said cylindrical chamber between the periphery of said disk and the opposing wall of said housing in driving relation to said vanes, and a plurality of check valves each arranged in a passage through said disk leading

from said space to said annular channel and opening toward said channel to transmit substantially the highest fluid pressure developed in said housing from said space to said annular channel.

2,650,574
FLUID LIFT PUMPING EQUIPMENT
Donald A. MacDonald, Houston, Tex.
Application August 4, 1947, Serial No. 765,905
10 Claims. (Cl. 121—150)

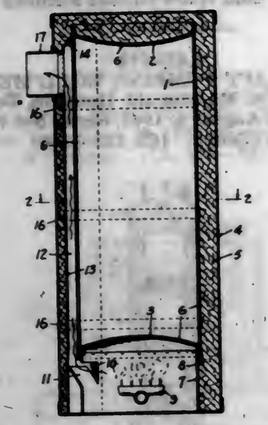


1. A fluid lift motor comprising actuating means including a main cylinder, a power piston in said main cylinder and means for connecting said piston to a load, means for applying an operating fluid to said piston, means applying pressure to said operating fluid to cause a power stroke of the piston, a head block fixedly mounted in said cylinder, a pneumatic cylinder adjacent said head block, a floating piston mounted in said pneumatic cylinder, a pressure fluid between said pistons, channels through said head block through which said pressure fluid flows under pressure upon upstroke of the power piston, means for releasing the pressure on said operating fluid when its pressure exceeds a predetermined limit to relieve the pressure of the operating fluid from the power piston to allow a back stroke of the actuating means.

2,650,575
WATER HEATER FLUE CONSTRUCTION
Arthur W. Carlson, Kankakee, Ill., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application March 31, 1950, Serial No. 153,277
2 Claims. (Cl. 122—17)

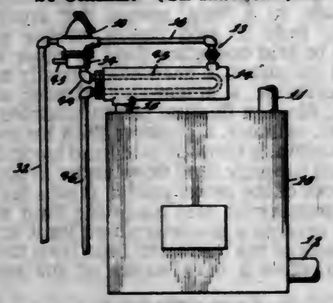
1. A flue unit for a hot water heater having an inner tank and an outer casing spaced therefrom by heat insulating material, said unit comprising a generally cylindrical supporting member secured to said tank and extending downwardly therefrom directly beneath the same to define a gas burning chamber for receiving hot gases for heating the liquid in said tank, a flue discharge jacket secured longitudinally along the wall of said tank between the tank and casing with the periphery of the jacket sealed to the wall of the tank, and said wall and jacket defining a flue passage extending upwardly from said supporting member to dispose heated gas in direct contact with the wall of the tank throughout substantially the length of said wall, and a deflector flared outwardly from an opening in said supporting mem-

ber to substantially contact the inside wall of the flue member to direct combustion gases upwardly for discharge into the flue passage and to guide



condensate into said gas burning chamber for dissipation without contact with said insulating material.

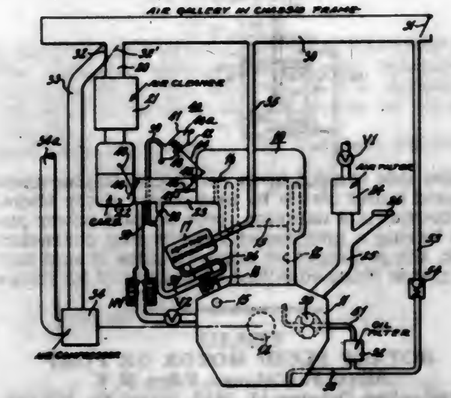
2,650,576
BOILER WITH CONTROL TO PREVENT OVERHEATING
Edwin B. Tidd, Mount Prospect, Ill., assignor to Bell & Gossett Company, Morton Grove, Ill., a corporation of Illinois
Application April 30, 1952, Serial No. 285,141
20 Claims. (Cl. 122—504)



15. Apparatus for preventing lowering of the water line of a hot water boiler comprising a normally closed valve for controlling a cold water supply to the boiler, a chamber having port means draining to the atmosphere, means responsive to boiler pressure for discharging boiler water to the chamber, and means for opening the valve responsive to a discharge of boiler water to the chamber having a temperature sufficiently high to flash into steam at atmospheric pressure, the port means constituting the sole terminal outlet for all discharge from the boiler and being sized to throttle the discharge of steam from the chamber.

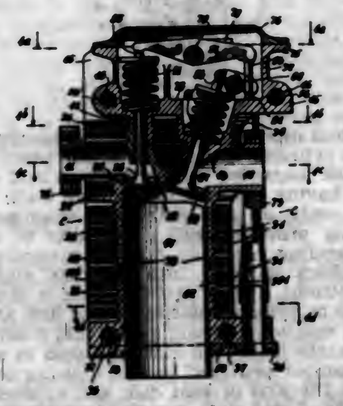
2,650,577
VENTILATING SYSTEM
Max G. Bales, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 23, 1951, Serial No. 212,457
8 Claims. (Cl. 123—1)

1. A ventilating system for a crank case and a sealed ignition distributor of an internal combustion engine comprising; a carburetor and an intake manifold associated with the engine; an air manifold open at one end associated with the carburetor and the distributor; an air inlet associated with the crank case including a valve adapted to be closed, when fording; air outlet ducts associated with the crank case, the distributor and the intake manifold; a valve mov-



able in the air manifold, said valve being movable responsively to air pressure in the air manifold; means for admitting air pressure to the air manifold to actuate said pressure valve to close the open end of the air manifold and maintain it closed whereby the carburetor, the distributor, and the crank case are pressurized and are ventilated, while fording, through suction produced by the engine.

2,650,578
AIR COOLING FOR INTERNAL-COMBUSTION ENGINES
Rudolph Daub, West Caldwell, N. J.
Application February 12, 1949, Serial No. 76,009
15 Claims. (Cl. 121—41.69)



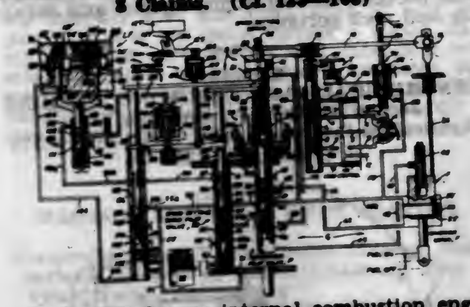
1. In an air-cooled internal combustion engine, the combination of a plurality of cylinder blocks having peripheral radiating fins, of metal plate means between said blocks and in contact with said fins and acting to distribute and dissipate heat received from said fins, tension means clamping said cylinder blocks against said plate means, and means for mounting said cylinder blocks on the crankcase of the engine.

2,650,579
VALVE CONSTRUCTION
Edward Reed Bernight, Pinellas Park, Fla.
Application August 28, 1951, Serial No. 243,929
4 Claims. (Cl. 123—90)



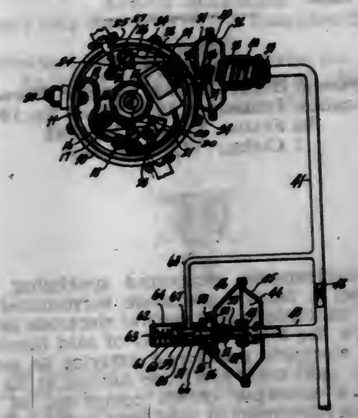
1. In a valve assembly for internal combustion engines including a poppet valve having a stem provided with an annular recess adjacent its upper end, a valve spring retainer having a downwardly inclined upper surface and a central tapered socket through which said stem extends, a split bushing embracing said stem and seated in the recess thereof, said bushing having its outer wall tapered to seat in the socket of said retainer, the upper edge of said bushing being beveled outwardly and downwardly into merging relation with the downwardly inclined upper surface of said retainer, said retainer having its marginal edge bent downwardly to form a depending lip.

2,650,580
CONTROL MECHANISM
Lloyd Jackson Moulton, Mentor, Ohio, assignor to The Marquette Metal Products Company, Cleveland, Ohio, a corporation of Ohio
Application May 20, 1950, Serial No. 163,115
8 Claims. (Cl. 123—103)



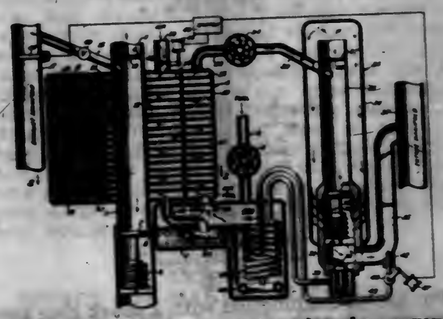
1. In and for an internal combustion engine having a pressure operated lubricating oil system, a hydraulic relay governor having a hydraulically operated speed setting servo mechanism including pilot valve means and a servomotor controlled thereby to adjust speed settings from low through a range of higher speeds, a hydraulically acting engine shutdown system including a shutdown motive unit, said speed setting servo pilot valve means operating through intermittently registering valve passages to maintain a low rate supply of operating fluid for the shutdown system whenever the servo is in low speed setting position, a valve mechanism connected for operation by the speed setting servomotor and operating whenever the servomotor is in higher than said low speed setting position to maintain a higher rate of supply of shutdown-system-operating fluid, a control valve in the shutdown system normally blocking admission of operating fluid at either rate to the shutdown motive unit, and a fluid pressure operable device sensitive to a predetermined pressure condition of the lubricating oil system, indicating failure thereof, for opening said control valve.

2,650,581
IGNITION APPARATUS
Brooks H. Short and Argyle G. Lautenhiser, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 3, 1949, Serial No. 125,352
5 Claims. (Cl. 123—117)



1. Ignition apparatus comprising a timer having an engine driven timer cam, a circuit breaker operated thereby for controlling ignition timing, a plate supported for rotation about the axis of the cam and supporting the breaker, a first suction operated device for rotating the plate and comprising a suction chamber connected with the engine intake and closed by a diaphragm connected with the plate and a spring opposing movement of the diaphragm with increasing engine suction to rotate the plate in a direction to advance ignition timing, said spring operating to retard ignition timing when suction decreases, and a separate suction actuated means operating in response only to sudden decrease in engine suction effective on said means for momentarily venting the suction chamber to obtain ignition retard during rapid engine acceleration.

2,650,582
CARBURETOR
Carl J. Green, Oak Ridge, Tenn.
Application December 1, 1949, Serial No. 130,489
12 Claims. (Cl. 123—134)



1. In a carburetor, a mixing chamber comprising a Hilsch vortex tube including a peripheral opening at one end and a central opening at the other, an input tube opening tangentially into said Hilsch vortex tube near the end having the central opening, means supplying a heated pre-

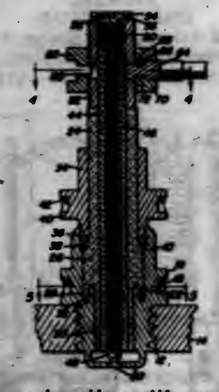
liminary mixture of air and fuel vapor to said mixing chamber through said input tube, a jacket defining a jacketed space about said Hilsch vortex tube with which the end openings of the latter communicate, and a conduit between said jacketed space and the intake manifold of the engine opening into said jacketed space at a point adjacent the peripheral opening of said Hilsch vortex tube.

2,650,583
SPARK PLUG
Raymond Henri Devaux, Tangier, Morocco
Application January 4, 1950, Serial No. 136,803
In France January 10, 1949
1 Claim. (Cl. 123—169)



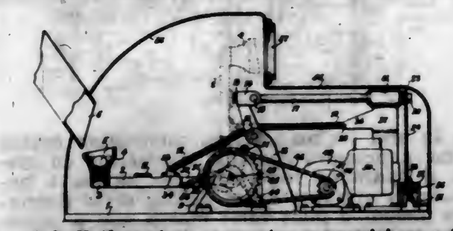
A self-cleansing compound sparkplug which comprises a central electrode surrounded by a mass of insulation; said central electrode projecting below the lower extremity of said insulation; a mass electrode positioned exterior to said insulation; said mass electrode having at its lower portion a sparking crown comprised of three tiers; the lowermost of said tiers being below the lower end of the central electrode; the middle of said tiers being positioned above said lower end of the central electrode; the uppermost of said tiers being positioned in close proximity to the lower portion of the insulation; the shortest distance between said lowermost tier and the central electrode being slightly less than the shortest distance between the uppermost tier and the central electrode.

2,650,584
SPARK PLUG AND IGNITION WIRE ATTACHMENT MEANS
Francis E. Berstler, Middletown, Pa., assignor of thirty-three and one-third per cent to Charles V. Hoke, Hummelstown, and thirty-three and one-third per cent to Ezra O. Brubaker, Elizabethtown, Pa.
Application November 27, 1950, Serial No. 197,696
1 Claim. (Cl. 123—169)



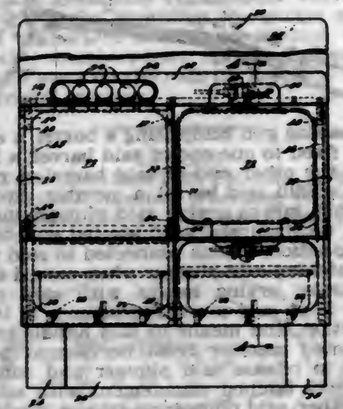
For use in conjunction with a spark plug insulator and electrode assembly embodying a sleeve of dielectric material, a metal tube fitting into the bore of said sleeve and bonded to the latter and constituting a bushing and having its axial passage internally screw-threaded and having one end projecting beyond the corresponding end of said sleeve and provided with external screw-threads, and a screw-threaded electrode screwed into and through the internally screw-threaded passage of said tube and having an upper end projecting beyond the upper end of said tube; terminal connector means adapted for detachable cooperation with said electrode comprising a tubular member having internal and external screw-threads, said tubular member being adapted to be removably screwed on the projecting end of said tube with its lower end abutting the upper end of said sleeve and with its upper end projecting beyond the corresponding end of said tube as well as the corresponding end of said electrode and serving to enclose and protectively house the upper end of said electrode, said tubular member being provided intermediate its upper and lower ends with equidistant circumferentially spaced apertures to selectively receive a conformably shaped terminal on a current conductive lead wire, the upper end of said tubular member being provided with a screw driver kerf, a plug removably secured in and closing the upper end of said tubular member, a current conductive lead wire having a terminal embodying a portion conformably and removably fitted into a selected one of said apertures, and means removably mounted on the external screw threads on said tubular member and directly coacting with said terminal to prevent accidental displacement of the same from the aperture in which it is located, said means comprising a pair of nuts removably screwed on said tubular member at longitudinally spaced points and located on diametrically opposite sides of said terminals, said terminal having a reduced neck portion and the opposed coacting faces of said nuts having endless flanges with portions thereof fitting against and engaging said neck portion.

2,650,585
CENTRIFUGAL BALL-THROWING MACHINE
Joseph M. Farré, Jr., Brooklyn, N. Y.
Application January 26, 1950, Serial No. 140,725
1 Claim. (Cl. 124—7)



A ball-throwing apparatus comprising, a base, a motor mounted on said base, a rotative shaft supported on the base, a chain drive from the motor to said shaft to thereby rotate the shaft, a multi-armed spider mounted on the shaft and rotated therewith, a pivoted throwing arm on the base, the pivot for said arm being located to one side of the axis of the rotative shaft whereby the arc of movement of the spider is eccentric to the swing of the throwing arm, a cam member carried by the arm and adjustable lengthwisely of the same, rollers at the ends of the several arms of the spider for successively engaging said cam and forcing the arm downwardly to a lowered position and then riding past the cam to release the arm, spring means connected to the throwing arm for swinging the same to a vertical position, a bumper against which the throwing arm impinges when swung by the spring means to a vertical position, and means for adjusting the position of said bumper.

2,650,586
CABINET RANGE CONSTRUCTION
Herbert E. Mills, Detroit, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Application November 13, 1944, Serial No. 563,145
1 Claim. (Cl. 126—39)



In a stove construction, a cabinet comprising a pair of front stampings secured together adjacent to the center line of the cabinet and provided with compartment openings, a base platform to which said front stampings are secured, rear corner pillars secured to said base platform, a rear panel joined to said pillars, side panels joined to said pillars and to said front stampings, closure elements for said compartment openings extending laterally over the front edge of said side panels, and a top panel having a splash back supported on said cabinet and extending over said side panels and said closure elements, said top panel also having as a unit side and front flanges of equal depth extending downwardly to said closure elements.

2,650,587
MASSAGE APPLIANCE WITH HEATING DEVICE
Werner Berceves, Minusio, near Locarno, Switzerland, assignor to Alfred Schadrack, Riva S. Vitale, Ticsin, Switzerland
Application March 12, 1951, Serial No. 215,965
In Switzerland August 22, 1950
9 Claims. (Cl. 128—24.1)



1. A massage implement comprising a metal massaging head, a metal sleeve rigid with said head, a handle of heat insulating material removably connected with said sleeve, an interchangeable cartridge removably inserted in said sleeve, an ampoule of destructible material in said cartridge, an exothermically reactable substance in said cartridge around said ampoule, said ampoule containing a fluid for reaction with said substance upon contact therewith and means for breaking said ampoule upon attaching said handle on said sleeve for releasing the fluid from said ampoule for contacting and reacting with said substance.

2,650,588
ARTIFICIAL FEMORAL HEAD HAVING AN X-RAY MARKER
Harry Guy Radcliffe Drew, Thornton Heath, England
Application February 7, 1951, Serial No. 209,876
In Great Britain December 29, 1950
2 Claims. (Cl. 128—92)



1. An artificial femoral head, which comprises a ball portion to replace the head of the femur and a stem portion for insertion longitudinally within the femur, the ball and stem portions being made of a hard transparent artificial plastic material, and X-ray contrast indicator means within the ball portion comprising at least one indicator element located laterally remote from the longitudinal axis of the ball portion.

2,650,589
WITHDRAWN

2,650,590
INFANT RESTRAINING DEVICE
Leroy Moore and Dorothy S. Moore, Jackson, Miss.
Application March 17, 1952, Serial No. 276,998
1 Claim. (Cl. 128—134)



An infant restraining device comprising a pair of individual straps adapted to engage an infant's ankles, said straps being detachably connected by a separate elastic link, said elastic link being of a length to permit walking and at the same time to discourage climbing, said straps having adjustable fastening means for accommodating various size infants, said fastening means including a plurality of gripper studs at one end of each strap and complementary gripper sockets at the other end of each strap, said elastic link having gripper sockets at its ends engaging said gripper studs to removably secure said elastic link to said straps.

2,650,591
DEVICE FOR MAKING INJECTIONS
Harold Norris Love, Chicago, Ill., assignor to Ideal Roller and Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application March 10, 1951, Serial No. 214,966
10 Claims. (Cl. 128—173)

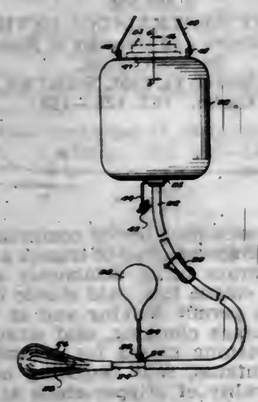
4. A gun for applying fluid pressure to contract a cartridge and discharge the fluid contents

therefrom, said gun having, in combination, a hollow casing defining a fluid filled chamber, means for detachably securing the cartridge to said casing for contraction by the pressure of the fluid in said chamber, an inflatable bladder



mounted within said chamber, and mechanism manually operable from the exterior of said casing to compress said bladder and thereby correspondingly increase the pressure of the liquid in said chamber.

2,650,592
SYRINGE
Romualdo Borda, Quebrada Honda, Venezuela
Application November 27, 1951, Serial No. 258,313
2 Claims. (Cl. 128—227)



1. In a vaginal syringe, a container provided with an interiorly threaded neck, a cap arranged in threaded engagement with said neck, a cable for supporting said container, a hose connected to the bottom of said container, a clamp arranged in engagement with said hose, a cylindrical sleeve connected to said hose, an inflatable corrugated nozzle mounted on said sleeve and provided with a plurality of spaced openings, a tube having one end perforated and its other end projecting through said sleeve, a manually operable valve connected to the projecting end of said tube, an air bulb connected to said valve, and an inflatable element arranged over the perforated end of said tube and positioned in said body.

2,650,593
BALLING GUN
Jay D. Weil, Lexington, and William Lee Nutter, Jr., Georgetown, Ky.
Application August 22, 1951, Serial No. 242,102
11 Claims. (Cl. 128—264)



1. A balling gun comprising a barrel, a capsule housing fixed to one end of said barrel, a handle fixed to the other end of said barrel, a plunger slidable within said barrel, a member pivoted in said barrel, means urging said plunger into said housing, means urging said pivoted member to a normal position, means connected to said plunger and latching said plunger when moved against said plunger urging means with said pivoted member when said pivoted member is in its normal position, and means in said handle to move said pivoted member from its normal position whereby to release said plunger and connected means from latched engagement with said pivoted member, said plunger on release moving into said housing under the action of said plunger urging means whereby to discharge a capsule from said housing.

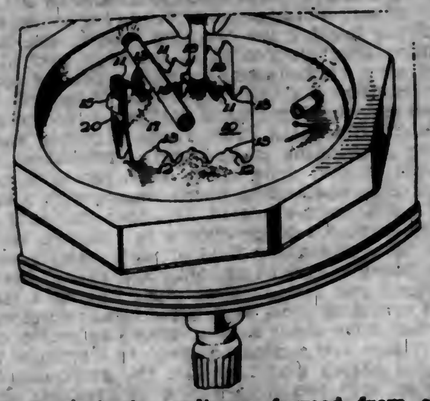
2,650,594
RECIPE FILE
Rose Heilman, Baxter Springs, Kans.
Application November 24, 1950, Serial No. 197,227
1 Claim. (Cl. 129—16)



In a device of the character described, an open front support having a rear wall and spaced forwardly extending side walls thereon, a plurality of pocket members formed of sheet material with the respective ends folded and secured to form a pocket having an open upper end and an open sided loop portion parallel and adjacent said open upper end of the pocket, said pocket members being of less width than the spacing of the side walls for free movement of said members therebetween and having a plurality of laterally spaced slots extending into the loop portion from the folded edge forming said loop portion, a rod removably and loosely mounted in the respective loop portions of each pocket member and extending through the open sides thereof substantially to the side walls whereby said side walls limit endwise movement of said rods, and a plurality of horizontally aligned resilient tongues integral with the rear wall and arranged in vertical series thereon between the side walls, said tongues being curved forwardly, upwardly and rearwardly and terminating in forwardly spaced relation to

the rear wall with said spacing less than the thickness of the rod whereby the curved portion of the tongues form seats between the tongues and rear wall for resiliently receiving the rods, said horizontally aligned tongues being of a size and spacing to correspond with the respective slots in the pocket members and extend therethrough in releasable engagement with the respective rods for mounting the pocket members on the support in overlapped relation whereby the pocket members have limited endwise movement and pivot on the rods for access to the next lower pocket member.

2,650,595
REST FOR CIGARETTES, CIGARS, AND PIPES
James J. Harkins, Wheeling, W. Va.
Application July 19, 1949, Serial No. 105,009
2 Claims. (Cl. 131—256)



1. A smoker's appliance formed from sheet material having a substantially V-shaped plan form and having means whereby the appliance may be supported upon a flat surface by the lower edges of each arm of said V, the arms of said V being of substantial height and having a pair of oppositely disposed scalloped edges with plane surfaces intermediate adjacent scallops on each edge, said plane surfaces providing spaced point contact with the flat supporting surface and means to support a cigar or cigarette in pairs of the upper of said scallops disposed upon opposite sides of the bisector of the angle of the V, with additional supporting means for the appliance at the apex of the V comprising a downwardly directed hook disposed on that portion of the V that is opposed to the direction of the arms thereof, said hook being struck outwardly and downwardly from the upper portion of the apex.

2,650,596
BOBBY PIN
Ross J. Fortaro, Cleveland, Ohio
Application August 16, 1951, Serial No. 242,463
1 Claim. (Cl. 132—50)



A bobby pin comprising a pair of substantially straight integrally connected legs of resilient material yieldably urged toward one another in closely contacting relation, one of said legs adjacent its connection with the other leg having an integral tab projecting laterally outwardly from one edge only thereof and of a size sufficient for engagement between a finger and thumb of the user, the other leg having an integrally formed tab spaced from said first mentioned tab in a direction toward the free ends of said legs and projecting laterally outwardly from the adjacent edge only of said other leg and in the same direction as said first mentioned tab for engagement by another finger of the user, whereby the bobby pin when said one leg tab is grasped by the hand of the user, may be easily opened by other finger pressure exerted against said other leg tab to spread apart said resiliently connected legs.

2,650,597
LIPSTICK CASE WITH MIRROR THEREON
Marie P. Girard, Pomona, Calif.
Application August 17, 1951, Serial No. 242,279
2 Claims. (Cl. 132—79)



1. In combination, a case embodying a cover section open at one end and closed at the opposite end, a lipstick, a holder in which said lipstick is mounted, said holder being fitted in said cover section through the open end of the latter, a truncated-conical adapter of colored commercial plastics having its truncated end bonded axially to the closed end of said cover sections, the other end being of enlarged predetermined diameter and a face mirror embedded in the enlarged diametered end.

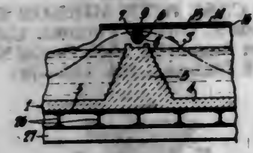
2,650,598
DENTAL FLOSS IMPLEMENT
Nicholas S. Rodenci, Los Angeles, Calif.
Application June 23, 1952, Serial No. 294,990
3 Claims. (Cl. 132—91)



1. In combination, a dental floss holder including an open loop, a pair of arms joined integrally to the extremities of said loop by reverse bends, a pair of prongs on the free ends of said arms, said prongs each having one slot only with a width in the neighborhood of .01 inch, the length of each slot in its region of .01 inch width exceeding five times the width of the slots, a length of dental floss having each end portion

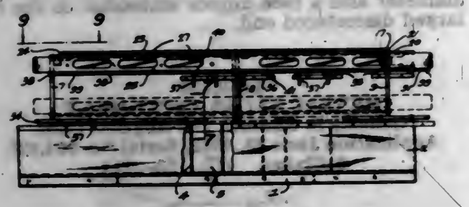
thereof extending through a respective slot with the free end extremity thereof lying on the inner side of a respective prong, having a portion wound about a respective prong with a full turn, beginning at the outer extremity of the respective slot, and having portions extending inwardly through the respective slots from the extremities of said turns and continued to form an intermediate connecting portion stretched between the prongs.

2,650,599
CONTINUOUS PICKLING APPARATUS
Louis T. Campbell, Pittsburgh, Pa., assignor to United States Steel Corporation, a corporation of New Jersey
Application December 15, 1948, Serial No. 65,403
3 Claims. (Cl. 134—64)



3. In apparatus for the pickling of continuous metallic strip, the combination which includes a tank for containing the pickling solution, a non-revolving strip support located entirely within the confines of said tank above the solution level line, said non-revolving support comprising a cylindrical body and a square shaft, the outer surfaces of said shaft and said cylindrical body being of a corrosion-resistant material, and shaft receiving recesses formed in the tank to engage said shaft and maintain the support in fixed position.

2,650,600
PUSHER TYPE AUTOMATIC PLATING APPARATUS
John V. Davis, Detroit, Mich., assignor to The Udylite Corporation, Detroit, Mich., a corporation of Delaware
Application June 18, 1947, Serial No. 755,365
16 Claims. (Cl. 134—77)



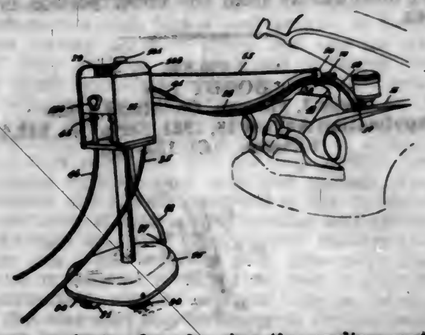
1. In a conveying apparatus, a series of receptacles, an alined series of spaced rail sections fixedly supported over said receptacles, a chassis movably mounted over said receptacles, means for moving said chassis up and down over said receptacles, a series of spaced rail sections carried by said chassis and adapted to fit in the spaces between the first named sections in the lower position of the chassis, slidably mounted pusher bars carried by said chassis, means for reciprocating said bars, lengthwise adjustable pushers carried by said bars in close proximity to the movable rail sections and adapted to engage work on the several rail sections in either position of the chassis, and means for sliding said bars in both positions of the chassis.

2,650,601
FIVE AND TEN DRUM FLUSH UNIT
Robert Lee Kaye, Newark, N. J.
Application December 14, 1950, Serial No. 200,834
4 Claims. (Cl. 134—107)



1. In combination in a multiple drum cleaning device, an elongate tank, having a plurality of drum positioning means along one long edge thereof, cross frame members corresponding to said drum positioning means and extending across the width of said tank, a header mounted within the tank and extending along its length, a fluid circulating pump connected to supply cleaning fluid under pressure to said header, means to supply fluid from said tank to the intake of said pump, heating means carried by said tank for heating the cleaning fluid in the tank, a drive shaft journaled in bearings carried by said cross frame members and extending along the length of said tank, a plurality of spaced riser pipes each having a fixed part connected to said header adjacent a cross frame member and a drum positioning means and a rotatable part geared to said drive shaft, each rotatable part having an upstanding nozzle means with a narrow slit therein adjacent its upper end, said slit being arranged to produce a fan shaped knife-like flow of cleaning fluid of high velocity, each said nozzle means being connected to said header through one of said riser pipes having a fixed part and a movable part, drive means connected to said drive shaft and arranged to rotate said shaft at a low controlled speed to maximize the kinetic energy and therefore the knife-like action of said fan-shaped flow of cleaning fluid from said slits by opposing any unbalanced reaction turbine effect of said fluid flow and combination overflow and drain means for said tank comprising an opening in the bottom of said tank and an open ended cylinder removably positioned over said opening whereby overflow fluid will flow over the open end of said cylinder and the removal of the cylinder causes the tank to drain out said opening.

2,650,602
CLEANER FOR ENGINE COOLING SYSTEMS
Frank Hoke, Indianapolis, Ind., assignor to Holcomb & Hoke Mfg. Co., Inc., Indianapolis, Ind., a corporation of Indiana
Application September 21, 1948, Serial No. 50,272
3 Claims. (Cl. 134—112)



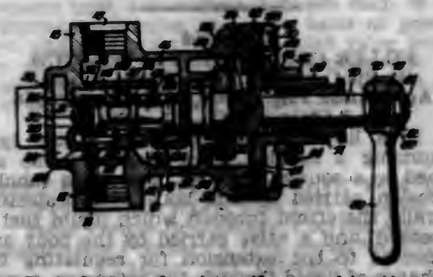
1. In a device for cleaning the cooling system of a liquid-cooled internal combustion engine having an associated radiator and pump for circulating liquid through the radiator and engine-jacket, a wheeled truck, an elevated tank on said truck having an inlet and an outlet, a flexible delivery hose for connecting said inlet to the outlet of the engine-jacket, a flexible return hose for connecting the tank-outlet with the inlet of the radiator, a vent hose for connection to the top of the radiator and communicating with said tank, said vent hose being effectively shorter than the other hoses whereby said truck and tank can be moved away from the radiator to tighten the vent hose, and brake means on said truck for holding it in a position in which the vent hose is taut.

2,650,603
ROLL ASSEMBLY FOR CONTINUOUS STRIP PICKLING TANKS
Leonard R. Howes, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application June 28, 1947, Serial No. 757,761
7 Claims. (Cl. 134—122)



1. An acid-resisting idler roll assembly for guiding and supporting strips of sheet material through an acid-pickling solution, said roll assembly comprising a shaft of acid-resisting material, a plurality of rolls consisting of yieldable resilient acid-resisting rubber-like material, each journaled for independent rotation on said shaft at positions longitudinally along said shaft providing a supporting surface, collars of acid-resisting material adjustably secured on said shaft and disposed at positions adjacent the ends of the roll assembly for limiting axial separating movement of said rolls, each of said rolls having a protruding separating portion at an end face providing a channel between the outer edge of each roll and the outer edge of the adjacent roll to permit movement of the material of said rolls into said channel upon radial compression, and the bearing portion of each of said rolls being capable of lubrication by said solution and formed with a series of alternating longitudinal roll bearing surfaces and solution conducting lubricating grooves in said rubber-like material.

2,650,604
MIXING VALVE
Harry Barnett, Glencoe, Ill., assignor to The Powers Regulator Company, Chicago, Ill., a corporation of Illinois
Application August 12, 1947, Serial No. 768,291
5 Claims. (Cl. 137—100)

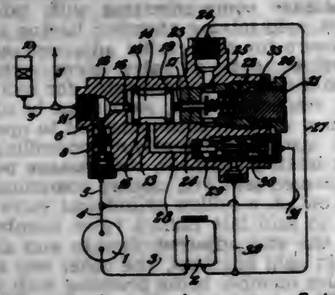


1. In valve mechanism, the combination of a casing having a cold liquid inlet, a hot liquid inlet, and a mixed liquid outlet, a valve housing in said casing and disposed between said inlets and outlet, said casing having an inlet defined by a valve seat, a valve bearing in said casing spaced from said seat whereby a hot liquid passage is defined in said casing, a first wall forming a bearing spaced from said first named bearing, said wall forming bearing being connected to a second wall forming bearing whereby a mixing chamber is formed between said first named bearing and first wall forming bearing, and a cold liquid passage is formed between said first and second wall forming bearings, said last named passage communicating with said cold liquid inlet, said mixing chamber having a valve seat, a closure for said casing adjacent said last named valve seat, a valve stem extending through said closure and mounted for reciprocation with respect thereto, said stem being provided with a valve member adapted to open and close said last named seat for controlling flow from said mixing chamber, the passage between said last named seat and closure communicating with said outlet, a hollow cylindrical valve member fixed to said last named valve member and closed at the end adjacent thereto and slidably mounted in said bearings, the other end of said hollow valve member being provided with a valve disk adapted to close said first named seat when said last named seat is closed, said hollow valve member having first axially spaced ports so disposed that when said valve seats are closed a port will be in communication with the hot liquid passage and the axially spaced port will be in alignment with said valve bearing, the bearing being of such width that the hollow valve member may be moved to connect the hot liquid passage and a mixing chamber through said axially spaced ports, said hollow valve member having second axially spaced ports so disposed that when said valve seats are closed said last named ports communicate with the mixing chamber and cold liquid passage, the last named ports being so spaced that one of the ports may be moved out of communication with the mixing chamber, and a floating compensating valve mounted in said hollow valve member, said compensating valve comprising a disk adjacent each end of the hollow valve member, a disk intermediate said end disks and rigidly connected thereto by stems of smaller diameter than the end disks, the end disks having passages permitting communication with the ends of the hollow member, the disks being so arranged that the spaces between the intermediate disk and the end disks respectively connect the spaced ports of the first and second axial ports, one end disk being responsive to pressure in the hot liquid passage for controlling the port communicating with said hot liquid passage and the other end disk being responsive to pressure in the cold liquid passage for controlling the port communicating with said cold liquid passage.

2,650,605
PRESSURE REGULATING DEVICE
Harry Mackie, Leigh, England, assignor to Electro-Hydraulics Limited, Warrington, England, a company of Great Britain
Application November 8, 1948, Serial No. 58,923
In Great Britain November 18, 1947
3 Claims. (Cl. 137—102)

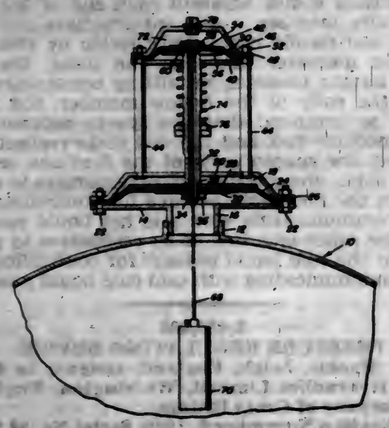
1. A pressure regulating device of the character described comprising a cylinder having a bore, a valve chamber in said bore, a piston reciprocable in said chamber, a first valve seat in one end of said chamber, a first valve element carried by said piston and cooperable with said first valve

seat, a first passage for conducting fluid under pressure to said first valve seat, a second valve seat in the opposite end of said chamber, a second valve element carried by said piston and cooperable with said second valve seat, a second passage for the escape of fluid from said chamber past said second valve seat, said valve elements being alternatively movable to seated position by movement of said piston, a third passage communicating with said chamber intermediate said valve seats for passing fluid to and from pressure operative means, said pressure operative means being operatively connected to a lock valve



controlling discharge of pressure fluid through a by-pass chamber to an exhaust line and comprising a plunger responsive to pressure in said third passage for opening said lock valve, a housing axially adjustable in said bore and carrying said second valve seat, said housing having means therein for biasing said piston to normally maintain said first valve element seated and said second valve element unseated, and a support for said biasing means mounted in said housing, said support being axially adjustable in said housing, and said housing and support together sealing said bore.

2,650,606
LEVEL CONTROLLER
Elgan C. Amiden, Medford, Oreg.
Application October 10, 1952, Serial No. 314,197
6 Claims. (Cl. 137—269)



1. A fluid level controller for use in pressure storage tanks comprising a first chamber adapted to be secured to a tank and open to gaseous pressure in said tank, a first diaphragm in said chamber, a hollow tubular member extending through said first diaphragm and open to the gaseous pressure in said tank, a second chamber, a plurality of support members extending between said chambers, said support members being terminally secured to said chambers, a second diaphragm in said second chamber dividing said second chamber into a first and a second pressure portion, a check valve on said second chamber adapted to open said first pressure portion to atmospheric pressure, said tubular member extending through said second diaphragm and adapted to communicate with said first pressure portion, a relief valve, the valve seat of said relief valve being carried by said tubular member, a rod having a float attached at one end thereof, said rod being secured to said valve, said relief valve being activated to open said tubular member to said first pressure portion upon downward movement of said float upon removal of a predetermined quantity of liquid from said tank.

2,650,607
GAS FLOW CONTROL APPARATUS
Austin U. Bryant, Berkeley, Calif., assignor, by mesne assignments, to M & J Engineering Co., a partnership
Application February 23, 1949, Serial No. 77,880
6 Claims. (Cl. 137—468)

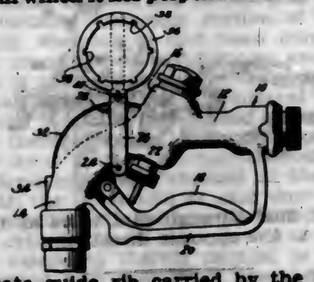


1. In a gas flow control apparatus, a flow control valve means having its inlet side adapted for connection with a source of gas under pressure, a flow control orifice having its inlet side connected to the outlet side of said valve means, downstream piping connecting to the outlet side of the orifice and serving to conduct the gas to a point of gas demand, means responsive to the fluid pressure drop across said orifice for effecting opening and closing of said valve means, a decrease in the pressure drop serving to open the valve means and an increase in the pressure drop serving to close the valve means, and means responsive to the pressure in said downstream piping for modifying the action of said second named means responsive to variations in static pressure at a point in said downstream piping, said last means acting to urge the flow control valve means toward closed position responsive to an increase in static pressure at said point and to urge the same toward open position for a decrease in such static pressure, the combination of said last named means forming means to maintain the weight of gas flowing through said orifice per unit of time constant, when the pressure drop through the orifice is less than the downstream absolute pressure.

2,650,608
FILLER CAP LOOSENING WRENCH
Orville C. Nystul, North Fargo, N. Dak.
Application July 7, 1952, Serial No. 297,584
3 Claims. (Cl. 137—560)

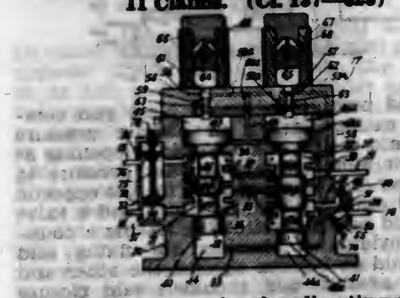
1. In a liquid dispensing nozzle of the type comprising a tubular body adapted to be attached to a source of liquid pressure, a tubular extension carried by the body and projecting laterally therefrom through which liquid fuel is dispensed, and a valve carried by the body and connected to the extension for regulating the discharge of liquid through the extension, means for removing a cap from the filler pipe of a liquid receiving tank, said means comprising a yoke

mounted on the nozzle adjacent the junction of the tubular body and the extension so as to move in an arcuate path from an active position in which it lies parallel to the body, to an inactive position in which it lies perpendicular to the body,



an arcuate guide rib carried by the body and the extension and extending outwardly therefrom for engaging the yoke and guiding it in its path of movement, and a ring shaped cap wrench carried by the yoke and extending outwardly therefrom away and from the guide rib.

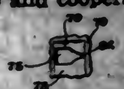
2,650,609
HYDRAULIC VALVE
John A. Herbst, Pines Lake, N. J., assignor to Bogue Electric Manufacturing Co., Paterson, N. J., a corporation
Application March 20, 1951, Serial No. 216,637
11 Claims. (Cl. 137—623)



1. A hydraulic valve for directing the flow of pressure fluid at working pressure comprising a valve body formed with a pair of outlet ports, a pressure port and a relief port, a pair of communicating bores, said outlet ports communicating with one bore, said pressure and relief ports communicating with the other bore, valve means movable within each bore from one position to another position for effecting selective interconnection of said ports, each of said valve means including heads at the opposite ends thereof of differential area, said bores including cylinders for receiving each of said heads, connections between each of said cylinders and said pressure port, connections between each of the cylinders containing the valve head of greater area and said relief port and pilot valve means for selectively regulating the connections between each of said last mentioned cylinders and said pressure and relief ports.

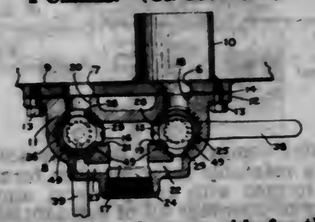
2,650,610
GRADUATED UNIVERSAL VALVE FOR GAS APPLIANCES WITH PORTED SLEEVE
Isaac Vernon Brumbaugh, Clayton, Mo.
Application February 6, 1948, Serial No. 6,719
6 Claims. (Cl. 137—637)

1. A valve comprising a hollow valve casing having an inlet port and an outlet port, a stationary member positioned in said hollow and a rotative member also positioned in said hollow and associated with the stationary member, the rotative member being formed with a tapered port and the stationary member being formed with an elongated sloping surface which at times lies contiguous to and cooperates with said port



to effect a gradual adjustment of the flow of fluid through said valve, said stationary member and said rotative member comprising means for metering the amount of liquid flowing from said inlet port to said outlet port and said gradual adjustment of the flow being effected by the position of said tapering port relative to said elongated sloping surface.

2,650,611
ANTIFREEZE VALVE ASSEMBLY
Robert M. Henderson, Springfield, Vt., assignor to Worthington Corporation, Harrison, N. J., a corporation of Delaware
Application October 17, 1950, Serial No. 190,869
4 Claims. (Cl. 137—637)

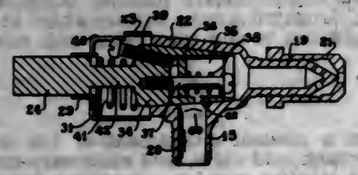


1. An anti-freeze valve assembly for the mixing and flushing tank provided on transit type truck mixers comprising, a valve housing connected to the outside of said water tank at its lowermost portion, at least two valve chambers in said valve housing, a common discharge chamber formed in said housing and provided with a discharge outlet at its lowest point, inlet passages communicating at one end with said water tank and at the other end with said valve chambers, outlet passages for said valve chambers at substantially right angles to the inlet ends of said inlet passages and providing communication between said valve chambers and said discharge chamber, by-pass passages for each of said valve chambers disposed at the lowermost point thereof at substantially right angles to said outlet passages formed in the valve chamber and opposite to the inlet ends of said inlet passages, a hollow plug type valve member rotatably mounted in each of said valve chambers, inlet and discharge ports for each of said valve members, said inlet and discharge ports adapted to coact with said inlet outlet and by-pass passages whereby when said valve member is rotated to an open position water will drain by gravity flow from said water tank to said discharge outlet and when rotated to a closed position will drain from the discharge chamber and from the valve chamber through the by-pass passages to the discharge outlet by gravity flow.

2,650,612
GRADUATED UNIVERSAL VALVE FOR GAS APPLIANCES
Isaac Vernon Brumbaugh, Clayton, Mo.
Application December 22, 1948, Serial No. 66,710
28 Claims. (Cl. 137—637.4)

1. A valve comprising a non-rotative member, a rotative valve member associated therewith,

the non-rotative member being formed with a tapering port and the rotative member being formed with an elongated sloping surface which cooperates with said port to effect a gradual adjustment of the flow of gas through said valve, means for rotating said rotative member, and separate means for adjusting one member longitudinally relative to the other member.

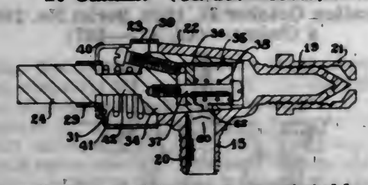


2,650,613

GRADUATED UNIVERSAL VALVE FOR GAS APPLIANCES WITH SLITTED SLEEVE

Isaac Vernon Brumbaugh, Clayton, Mo.

Application May 15, 1948, Serial No. 27,167
10 Claims. (Cl. 137—637.4)



1. A valve comprising a non-rotatable casing member, a rotatable rotor member formed with a recess, formed with an open end, and having a plurality of openings all of substantially equal size, substantially equally spaced around the circumference of the plug; a hollow cylindrical sleeve formed with an open end, positioned in said recess, rotatable with said rotor member, and having a plurality of substantially equally and circumferentially spaced slits of progressively increased widths which are respectfully spaced in the same angular position circumferentially as the respective openings in the rotor member and register substantially with said openings in the rotor member; a handle for turning said rotatable rotor member and said sleeve member to a plurality of different positions to control the amount of gas flowing therethrough, the size of the flame and the heat developed, and means to move said sleeve longitudinally relative to the casing and to the rotatable rotor member to vary the registration of the ports to produce an infinite number of proportional orifice sizes by the cooperation of each individual slit and its cooperating rotor opening.

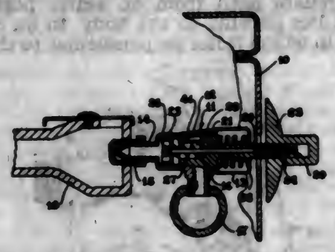
2,650,614

GRADUATED UNIVERSAL VALVE FOR GAS APPLIANCES WITH INTERCONNECTED SLEEVE

Isaac Vernon Brumbaugh, Clayton, Mo.

Application September 29, 1947, Serial No. 776,687
15 Claims. (Cl. 137—637.4)

1. A valve comprising a casing having an inlet port and an outlet port; a rotor plug therein having passages formed therethrough through which fluid may flow from the inlet port to the outlet port; means for turning said plug; and separate means comprising a member spaced longitudinally of but associated with said plug and a separate bypass controlled by said spaced member for increasing gradually the amount of flow of fluid through said valve as the plug is rotated in one direction and for decreasing the amount of flow of fluid through said valve as the plug is rotated in the opposite direction.



2,650,615

FLUID PRESSURE ACTUATED BLAST GUN

John Edward Crossley Neeham, Rochester, England, assignor, by mesne assignments, to Airnesco Products Limited, Rochester, England, a company of Great Britain

Application January 15, 1951, Serial No. 206,014
In Great Britain January 25, 1950
6 Claims. (Cl. 137—646)



4. A fluid pressure actuated blast gun comprising a casing having an interior pressure chamber, said casing having an inlet opening at one end for admitting fluid under pressure to said chamber, a closure member for the opposite end of said casing, a cylinder block and a valve block in said casing, said casing having a counterbore providing a shoulder for fixing said blocks in said casing one against the other and said other against said shoulder, said closure member engaging said one block to fix said blocks in said casing, said valve block and said closure member having a discharge opening, the valve block being provided with a valve seat at the discharge opening, a discharge valve biased for movement towards said seat, said cylinder block having passages for the flow of pressure fluid from said inlet opening to said discharge valve, said cylinder block having a cylinder, and a piston in said cylinder connected to said discharge valve and operable under pressure in said chamber to open said discharge valve.

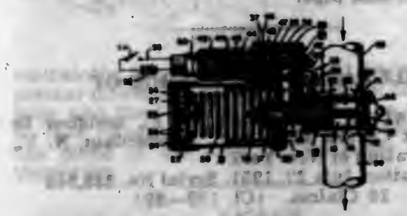
2,650,616

SOLENOID OPERATED PILOT VALVE AND MAIN GATE VALVE

Orville L. Wilkinson, Tujunga, and Otis A. Wright, Burbank, Calif., assignors, by mesne assignments, to Hydro-Aire, Inc., a corporation of California

Application August 30, 1948, Serial No. 46,764
1 Claim. (Cl. 137—657)

In a shutoff valve: a servomotor comprising a cylinder and a piston therein; a combined valve housing and cylinder head comprising an annular valve body having coaxial, axially spaced valve seats defining an inlet and an outlet respectively, said body having on one side a radially projecting integral portion defining a space which communicates with the space between said valve seats, with both spaces being aligned and lying in a common plane at right angles to the axis of said valve body, to provide a valve chamber, said cylinder head constituting an integral extension of said radially projecting portion of the valve body, with the axis of said head lying in said common plane and constituting an extension of a radius of said annular valve body, and a pilot valve casing constituting an integral extension of one side of said cylinder head and projecting radially therefrom, said pilot valve casing and cylinder head having an unrestricted exhaust duct extending therein radially of the cylinder axis, with the inner end of said duct in direct communication with the interior of said cylinder in said cylinder head, and having a restricted passage extending therein parallel to said duct and opening into said valve chamber through said radially projecting portion of the valve body, and said pilot valve casing having a pilot valve chamber at the outer end of said duct, having an inlet port between said passage and duct, and



an outlet port aligned with said inlet port on the opposite side of said duct from the inlet port, on an axis parallel to said cylinder axis; a pilot valve poppet in said pilot valve chamber, movable in opposite directions to close either said inlet or said outlet port; a solenoid for actuating said pilot valve; and a gate valve slidable in said first mentioned valve chamber and between said valve seats, said gate valve having a stem extending through said cylinder head and connected to said piston; said restricted passage communicating with the inlet side of said valve gate to receive from the inlet of said valve body, pressure fluid which, when said pilot valve inlet port is open, will flow gradually into said duct and thence into said cylinder to move said piston in the direction to open said gate valve; and spring means acting against said piston and operable thereon to rapidly move the gate valve to closed position as the result of quick release of fluid pressure from the cylinder through said duct and outlet port when the pilot valve is in its other position.

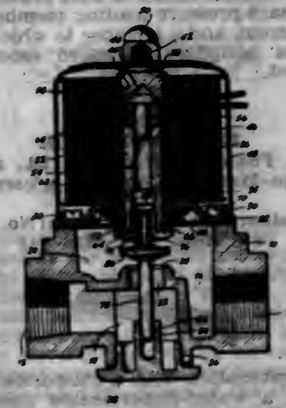
2,650,617

ELECTROMAGNETIC VALVE

Joseph A. Wasser, Kirkwood, Mo., assignor to Missouri Automatic Control Corporation, St. Louis, Mo., a corporation of Missouri

Application September 7, 1950, Serial No. 183,634
4 Claims. (Cl. 137—719)

1. In an electromagnetic valve, a sleeve member having an outer and inner end, an energizing coil around said sleeve member, an elongated plunger loosely fitted in said sleeve member and adapted to be attracted inwardly into said sleeve member when said coil is energized, means at the inner end of said sleeve member for centering the inner end of said plunger in said sleeve member when it is in an attracted position, spring means for resiliently biasing the outer end of said plunger against one wall of said sleeve member, a valve port adjacent the outer end of said sleeve member having a surrounding valve seat which is concentric with said sleeve member, a valve stem extending through said port and being operatively connected at one end to the outer end of said plunger, means at the other end of said valve stem for guiding it in a path concentric with said valve seat and said sleeve member, and a valve rigidly attached to said stem intermediately of its ends and being adapted to engage said valve seat, said operative connection between said valve stem and said plunger being constructed with sufficient free lateral movement between said valve and said plunger to permit the tilting of said plunger by said spring without binding said valve in its guide.



3. In an AC solenoid a disc member having a central perforation, a sleeve member having an open end extending into said perforation at one side of said disc and being fixed to said disc member, an annular recess in said disc member on the other side thereof and concentric with said sleeve member, an energizing coil around said sleeve member, an elongated plunger loosely fitted in said sleeve member and adapted to be attracted inwardly into said sleeve member when said coil is energized, means at the other end of said sleeve member for centering the inner end of said plunger therein when in an attracted position, a flange on the outer end of said plunger, and a helically wound spring surrounding the outer end of said plunger and having an eccentric end loop at one end closely fitting said plunger and bearing against said flange and having an end loop at its other end concentric with the main body of the spring bearing against said disc member and adapted to substantially fit into said recess, whereby said plunger is normally urged longitudinally in an outward direction and laterally against one wall of said sleeve member.

2,650,618

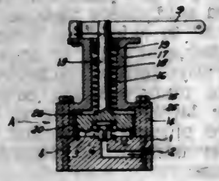
DIAPHRAGM FOR PRESSURE REGULATORS

Charles H. Fishacker, Chicago, Ill., assignor to Cook Electric Company, Chicago, Ill., a corporation of Illinois

Application August 6, 1948, Serial No. 42,916
3 Claims. (Cl. 137—789)

1. In a pressure controlled device, a pressure responsive metal diaphragm having inner and outer peripheries, fluid retaining means, said diaphragm having its outer periphery sealed to one wall of said fluid retaining means, there being a pressure chamber between said fluid retaining means and said diaphragm and a connection leading to said chamber from a source of fluid

pressure, a pressure loading member having a face contacting the outer face of said diaphragm and adapted for movement by said diaphragm when said diaphragm is flexed by the pressure of the fluid in said pressure chamber, means for



limiting such movement of said pressure loading member, said pressure loading member having a pocket therein, and a member to which the inner diaphragm periphery is sealed extending into said pocket.

2,650,619
PIPE PROTECTOR
Robert E. Pflaumer, Winnetka, Ill., assignor to American-Marietta Company, a corporation of Illinois
Application July 13, 1949, Serial No. 104,460
4 Claims. (Cl. 138—64)



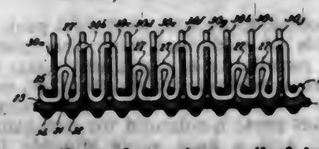
1. In combination with a cylindrical pipe covered with a water-impermeable membrane to protect the pipe against corrosion, an armor encircling the membrane-covered pipe, said encircling armor comprising a self-sustaining, water-impermeable sheet capable of flexing along preformed hinge joints and resistant to falling rocks and the like, said sheet having a plurality of spaced, rigid flat portions and parallel, flexible joint portions, each of said joint portions connecting a pair of said flat portions, each of the said flat portions being tangentially disposed with respect to the membrane-covered pipe and having only a limited central region thereof in contact with the membrane-covered pipe, whereby a space is formed between the armor and the pipe in the regions between the said limited regions of contact of the said flat rigid portions and the pipe, the arrangement of the said flat portions about the membrane-covered pipe being such that the encircling armor is in the form of a polygon.

2,650,620
PIPE LINE STOPPER
Frank H. Mueller and John J. Smith, Decatur, Ill., assignors to Mueller Co., Decatur, Ill., a corporation of Illinois
Application December 13, 1948, Serial No. 64,932
2 Claims. (Cl. 138—94)



1. In a pipe stopper the combination comprising: a continuous length of pipe; a tubular fitting attached thereto to extend on opposite sides thereof, one end of said fitting being open and the other end closed and the inner wall thereof between said ends defining a smooth bore on opposite sides of said pipe of smaller diameter than the inside diameter of said pipe, said bore being of substantially greater length than the outside diameter of said pipe and extending on opposite sides thereof, the walls of said pipe having circular openings within said fitting in alignment with and of diameters equal to that of said bore; a constriction in said bore adjacent said fitting closed end and beyond the pipe; a resilient compression-expansible cylindrical plug of a diameter substantially equal to that of said bore insertable therein to be guided thereby, said plug being of a length to be received completely within said bore and to extend from said constriction through said circular pipe openings substantially to the opposite end of said bore; and means for axially compressing said plug against said constriction from the opposite end of said plug to thereby expand the latter into sealing engagement with said pipe.

2,650,621
PILE FABRIC AND METHOD OF MANUFACTURE
John Crawford, Amsterdam, N. Y., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y., a corporation of New York
Application July 27, 1951, Serial No. 238,946
10 Claims. (Cl. 139—39)

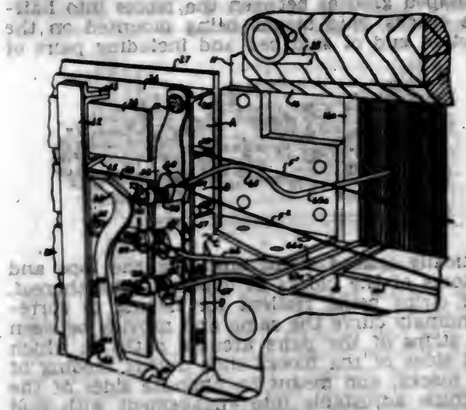


1. In a method of weaving a pile fabric made up of a backing and pile warp yarns having portions anchored in the backing and other portions raised above the backing on a loom provided with a set of pile wires, at least some of which have a spoon at the free end of the blade, the steps of raising pile warp yarns selected in accordance with a pattern in certain sheds, inserting the wires successively into such sheds, lowering the yarns across the blades of the wires to form transverse rows of loops of the height of said blades, raising any pile warp yarns, which were not raised over a wire, to form loops lying against the rear face of the wire and of a height at least as great as the difference between the heights of the spoon and the blade of the spoon wires, and successively withdrawing the wires to leave transverse rows of loops, the withdrawal of each spoon wire increasing the height of the loops of the yarns raised over the wire to the height of the spoon of the wire and simultaneously decreasing the height of all the loops of the same yarns in the preceding transverse row by the difference between the heights of the spoon and the blade of said wire.

2,650,622
FILLING END SEPARATOR FOR MULTIPLE SHUTTLE LOOMS
Fred J. Leard, Westminster, S. C.
Application February 1, 1951, Serial No. 208,943
8 Claims. (Cl. 139—170.6)

8. In an attachment for multiple shuttle looms having the usual lay and a shuttle box structure provided with a plurality of shuttle boxes adapted to be shifted to bring the shuttles selectively into action, a plurality of yarn engaging

fingers pivotally mounted on said shuttle box structure in substantial vertical spaced alignment, each of said fingers being associated with one of said shuttle boxes, means resiliently holding each of said fingers in substantially the plane of the floor of its corresponding box, fixed means



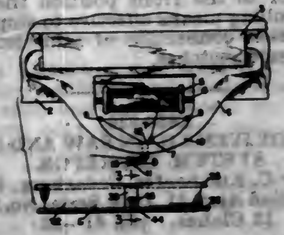
restraining the uppermost of said fingers against pivotal movement above the plane of the top box floor and fixed means restraining the remainder of said fingers against pivotal movement below the plane of the floor of the boxes associated therewith.

2,650,623
WARP STOP MOTION FOR WEAVING LOOMS AND OTHER TEXTILE MACHINES
Roger Robin, Lormaison, France, assignor to Société: Maison Neyret, Paris, France, a French company
Application April 17, 1948, Serial No. 21,635
In France December 29, 1947
17 Claims. (Cl. 139—353)



1. In a textile machine, means for guiding a bank of parallel threads in a common plane, means for feeding said threads past said guiding means, means for controlling the operation of said feeding means, a rotary thread pick up roller extending over the whole width of said bank, means for operatively connecting said pick up roller with said feeding means, an operative connection between said pick up roller and said guiding means, whereby said pick up roller and guiding means have a relative reciprocating motion between a pick up position in which said pick up roller is adapted to engage the threads of said bank, and another position in which said pick up roller is remote from said bank and deflects any picked up broken thread from said common plane, feeler means in the path of any deflected thread, adapted to move in response to the tension exerted thereon by a deflected thread, and an operative connection between said feeler means and said controlling means for stopping said feeding means upon movement of said feeler means.

2,650,624
ELECTRIC FILLING STOP MOTION FOR NARROW WARE LOOMS
Lewis O. Waterhouse, Oxford, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application January 10, 1952, Serial No. 265,775
12 Claims. (Cl. 139—371)



1. In filling stop means for a narrow ware loom having a backwardly and forwardly reciprocating lay provided with a plurality of shuttles reciprocable on the lay lengthwise thereof, a contact bar comprising two electrodes insulated from each other extending substantially parallel to and forward of the lay, a filling detector on each shuttle in non-indicating position during forward motion of the lay provided the filling of the shuttle is in proper condition for weaving but in indicating position if the filling is in improper condition, an electric switch for each shuttle mounted on the contact bar for angular movement thereon in the direction of back and forth movement of the lay normally in a position incapable of electrically connecting said electrodes but rockable on said bar to a stopping position to electrically connect said electrodes, each detector when in the indicating position thereof during forward movement of the lay being effective to cause rocking of the associated switch from the normal position thereof to the stopping position thereof, and loom controlling means effective due to electric connection of said electrodes by any switch to stop the loom.

2,650,625
ELECTRIC FILLING STOP MOTION FOR NARROW WARE LOOMS
Glenn D. Johnson, Holden, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application January 10, 1952, Serial No. 265,800
16 Claims. (Cl. 139—371)



1. In an electric filling stop motion for a narrow ware loom having a backwardly and forwardly reciprocating lay and having a gang of shuttles reciprocable on the lay lengthwise thereof, a detector on each shuttle held in non-indicating position provided the filling of the corresponding shuttle is in proper condition for weaving but moving to indicating position if the filling

is in improper condition for weaving, a contact bar extending substantially parallel to the lay forward thereof, said bar having two electrodes insulated from each other, a plurality of electric switches arranged along said bar each slidable to front and rear positions on the contact bar and normally in rear position and ineffective to connect the electrodes electrically but slidable forwardly to front position and when in the latter position electrically connecting said electrodes, each detector when in the normal position thereof being ineffective to engage the associated switch during forward motion of the lay but when in the indicating position thereof being effective to move the associated switch from the rear position thereof to the front position thereof, and loom controlling means effective to stop the loom due to electric connection of said electrodes by any one of said switches.

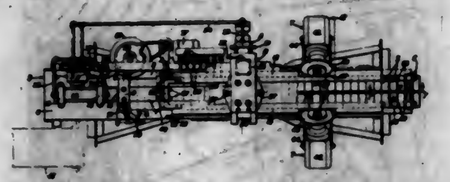
2,650,626
ENGINE DRIVEN CHAIN SAW AND OILING SYSTEM THEREFOR
Elmer C. Kiekhaefer, Cedarburg, Wis.
Application April 21, 1948, Serial No. 22,333
12 Claims. (Cl. 81—32)



11. In a chain saw, an engine, a guide rail carrying the saw chain, a transmission case carrying said guide rail and connected to said engine for relative rotation on an axis to dispose the guide rail in any of several cutting positions, a sprocket carried by said transmission case for driving the saw chain, transmission means driven by said engine and including a shaft carried by said transmission case, a clutch selectively connecting said shaft and sprocket and including means for control thereof by the operator, a chamber for a chain lubricant formed by said transmission case, fluid pressure means having a passage connected to said chamber to receive lubricant therefrom and a relief passage from said pressure means to said chamber for recirculation of the lubricant, said fluid pressure means being contained within said transmission case and driven by said shaft independently of the operative connection of the engine with said sprocket by said clutch whereby said pressure means is in operation at all times concurrently with the operation of the engine, a second passage from said pressure means having a restricted opening adjacent to the saw chain for delivery of the lubricant thereto, and valve means adapted to be controlled by the operator and to close said return passage whereby the lubricant is immediately directed through said second passage to the saw chain.

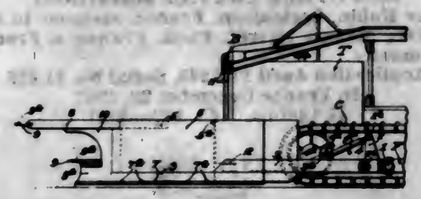
2,650,627
SPLINE AFFIXING DEVICE FOR PARQUETRY BLOCKS
Charles Ernest Tibbals, Oneida, Tenn., assignor of fifty per cent to A. Todd Tibbals, Columbus, Ohio
Application January 31, 1950, Serial No. 141,557
4 Claims. (Cl. 144—2)

1. In a parquetry manufacturing machine having means for successively feeding blocks of parquetry from the bed of the machine, means temporarily flexing the successive blocks immediately preceding ejection from the bed so as to spread the flooring pieces of each block apart at the bottom to provide V-shaped grooves between the pieces and to flex the spline joining the pieces whereby the block will return to flat form due to the resiliency of the spline, thereby changing the V-shaped grooves between the pieces into hairline cracks, said means being mounted on the ejection end of said bed and including pairs of



vertically spaced strips engaging the tops and bottoms of the blocks at opposite sides thereof, said strips being resilient for flexing to correspondingly curve the same and provide between the strips of the pairs arcuate paths in which said sides of the blocks slide during feeding of the blocks, and means on opposite sides of the machine adjustable into engagement with said strips to flex and curve the same.

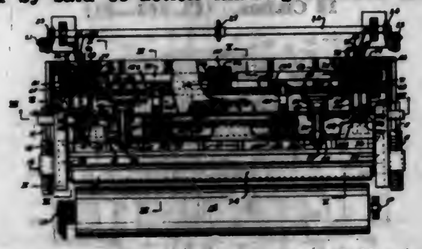
2,650,628
TREE FELLING AND LAND-CLEARING ATTACHMENT
Russell E. Long, Gray Ridge, Mo.
Application August 14, 1952, Serial No. 304,323
9 Claims. (Cl. 144—34)



8. An attachment for use on a tractor, comprising a substantially horizontal V-shaped frame with its apex forward and having supporting arms rigid therewith and pivotally mounted at their aft ends to the tractor; means on the tractor for raising and lowering the forward end of the frame; toothed cutting members extending laterally outwardly around the lower periphery of the frame; a relatively long and narrow pusher boom fixed to and extending forwardly from the upper part of the apex of the frame, the boom being spaced above said cutting members and extending forwardly beyond the apex thereof; and means for adjusting the height of the aft ends of said arms.

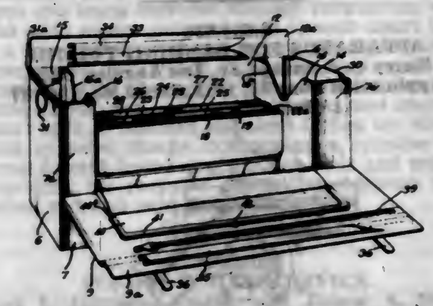
2,650,629
VENEER LATHE EMBODYING IMPROVED PRESSURE BAR ACTUATING MECHANISM
James T. Latimer, Birmingham, Ala., assignor to Jackson Industries Inc., a corporation of Alabama
Application April 19, 1951, Serial No. 221,265
11 Claims. (Cl. 144—313)

1. The combination with a veneer lathe embodying a main carriage and a pressure bar carriage slidable forwardly relative to the main carriage, of a fluid pressure cylinder embodying relatively movable parts, means securing one of said relatively movable parts to a portion of the main carriage and the other thereof to a portion of the pressure bar carriage, means to admit fluid under pressure to one end of the cylinder thereby to move the pressure bar carriage forwardly away from the main carriage, a limit member carried by the pressure bar carriage operatively co-acting with a portion of the main carriage and by said co-action limiting forward move-



ment of the pressure bar carriage relative to the main carriage, a slidable wedge member interposed between said limit member and said portion of the main carriage against which the limit member bears when the pressure bar carriage has moved forwardly, and means to slide the wedge member and thereby vary the distance between the pressure bar carriage and said main carriage.

2,650,630
COMPARTMENTED CONTAINER
Caroline Mytinger, Monterey, Calif.
Application November 4, 1947, Serial No. 783,903
3 Claims. (Cl. 150—34)



1. A quick-change bag insert comprising a substantially rectangular body member formed of a flexible material, said body member consisting of end walls, a front wall, a rear wall and a bottom wall, transverse partitions spaced inwardly from each end of the end walls and defining compartments adjacent the end walls, said front wall having a portion thereof foldable on a line below the mid-portion of said front wall, said front wall further having minor extensions at its ends and extending the full height of the insert, the said transverse partitions connecting the rear wall and the minor extensions, a plurality of longitudinally spaced partitions extending between and affixed to the inner sides of the transverse partitions, the rear wall comprising a two-ply formation to form a pocket on said wall, said rear wall formed at its upper portion into a closure flap, said front wall comprising a three-ply formation to form pockets on the said front wall, the front wall formed at its upper portion with a closure flap, said front closure flap being provided with an article-receiving portion on its inner under surface, said portion adapted to contact the inner sides of the transverse partitions when the closure flap is moved to closed position to thereby sustain the insert against longitudinal collapse.

2,650,631
END CONSTRUCTION FOR BILLFOLDS
William G. Schiller, Segreganset, Mass., assignor to Swank, Inc., a corporation of Delaware
Application March 19, 1952, Serial No. 277,370
4 Claims. (Cl. 150—38)



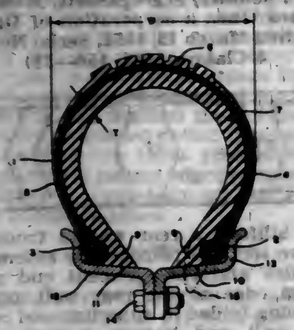
1. In a billfold, a rear wall, a front wall including two sections respectively extending from an end edge and the adjacent end portion of the bottom edge of the rear wall, one of said sections being folded in superimposed relation on the rear wall and having a portion forming a front wall panel, the other section being folded in superimposed relation on said panel and having its free end portion in the form of a tongue, a cut formed in the panel adjacent the connected end of the tongue section, a second cut formed in the panel spaced from the first cut, providing a strap between the cuts, said tongue extending through said cuts passing under said strap, and a lip secured to said tongue intermediate its opposite edges, and beneath said strap, and extending from beneath said strap over the edge of the first said cut to lie along the inner side of said front panel holding the tongue in position beneath said strap and forming a pocket between said tongue and said rear wall.

2,650,632
ADJUSTABLE TIRE
Jesse D. Langdon, Long Beach, Calif.
Application May 5, 1949, Serial No. 91,590
5 Claims. (Cl. 152—176)



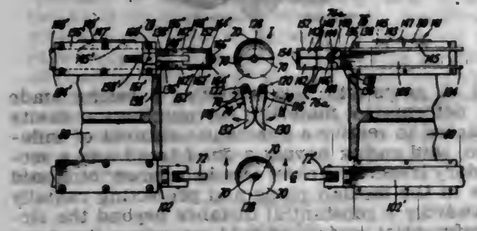
1. A pneumatic tire including a casing made of deformable material surrounding a cavity adapted to receive a pneumatic element of inflation, said casing having a chief tread and a secondary tread, said chief tread circumscribing said tire in the median plane and projecting radially outwardly a substantial distance beyond the circumferential surface of said secondary tread for contacting a road surface independently of said secondary tread, said secondary tread comprising shoulders paralleling and extending laterally of said chief tread and tapering radially thinner toward the median plane to form with said chief tread clearance spaces circumscribing the tire either side thereof and to permit said chief tread to circumferentially recede radially inwardly and said secondary tread to move radially outwardly on deflection of said tire.

2,650,633
RESILIENT TIRE
Ernst Eger, Los Angeles, Calif., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application January 26, 1949, Serial No. 72,891
1 Claim. (Cl. 152—327)



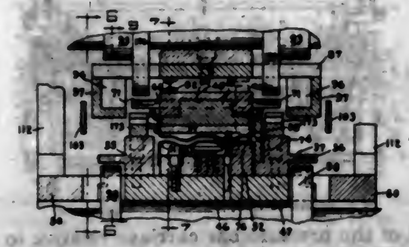
A tire having a generally U-shaped cross-sectional form in its unmounted and relaxed state, and comprised of an internal carcass of plies of stranded strain-resisting elements, inextensible bead members anchored within the terminal ends of the carcass, a rubber tread and sidewall portion extending across the carcass on the inner surface of said U, and a load-supporting layer of soft rubber extending across the carcass on the outer surface of said U, said load-supporting layer being sufficiently thick throughout its length to resiliently sustain the tire against collapse under the normal load for which the tire is intended, without any pneumatic pressure within the tire, when the tire is reversed into an inverted U-shape for mounting on a wheel, the terminal ends of said load-supporting layer being provided with portions extending laterally below the beads radially inwardly of the tire when in the said reversed position.

2,650,634
LEAD-IN WIRE ORIENTING APPARATUS
Charles A. Young, Gloucester, and Harold E. Baker, Danvers, Mass., assignors to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application April 18, 1951, Serial No. 221,594
6 Claims. (Cl. 153—2)



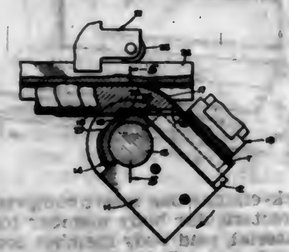
1. Apparatus for orienting a lead-in wire of an electrical device comprising: a slide; a pair of jaws pivotally mounted on said slide for rotational movement in a vertical plane; means for opening and closing said pair of jaws in a horizontal plane; means for imparting a reciprocating stroke to said slide to move said pair of jaws into and out of encircling engagement with the wire; and means disposed above and in register with said slide to effect rotational movement of said pair of jaws during the return stroke of said slide to thereby effect a bending of the wire.

2,650,635
APPARATUS FOR PRODUCING METAL PARTS
Homer G. Kellogg, Highland Park, Mich., assignor to Motor Products Corporation, Detroit, Mich., a corporation of New York
Original application July 12, 1948, Serial No. 38,277. Divided and this application October 12, 1950, Serial No. 190,496
10 Claims. (Cl. 153—31)



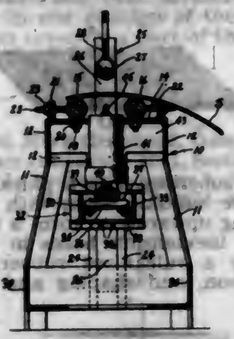
1. Apparatus for embossing strips comprising means for advancing a pair of strips in overlying relationship along a predetermined path of travel, a spacer positioned in the path of travel of the strips and adapted to project between the strips to space one from the other, embossing projections supported at opposite sides of the strips in the region of the spacer, means for relatively moving the projections toward each other into engagement with the strips to emboss the latter, and means for moving the spacer and embossing projections as a unit with the strips during the embossing operation.

2,650,636
APPARATUS FOR BENDING TUBING
Harry C. Jennings, Jr., Los Angeles, Calif.
Application June 21, 1952, Serial No. 294,787
1 Claim. (Cl. 153—40)



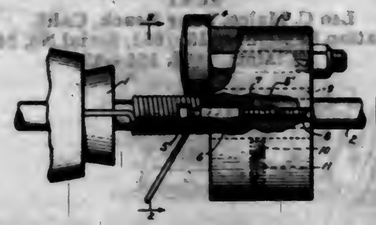
A tube bending apparatus comprising a mandrel on which tubing to be bent may be telescoped, a roll rotatably mounted adjacent the end of the mandrel, the end of the mandrel being rounded off with a radius of curvature approximately concentric with the axis of rotation of the roll, means for clamping the tubing against the roll, means for swinging the clamping means and roll about the axis of rotation of the roll, a follow block mounted for movement longitudinally of the mandrel on the opposite side thereof from the roll, there being a circumferentially extending rib extending partially around the roll, the ends of the rib being beveled off approximately tangent to the roll, and there being a groove formed in the mandrel opposite the roll and extending to the rounded end of the mandrel whereby as the roll and clamping means are swung the rib will depress the tubing into the groove over a portion of the interior of the bend in the tubing and the tubing may thereafter be removed from the mandrel by sliding it longitudinally off of the end of the mandrel.

2,650,637
APPARATUS FOR STRAIGHTENING SHEET METAL
Homer Dougherty Paxson, Salem, Ohio
Application August 2, 1950, Serial No. 177,186
3 Claims. (Cl. 153—48)



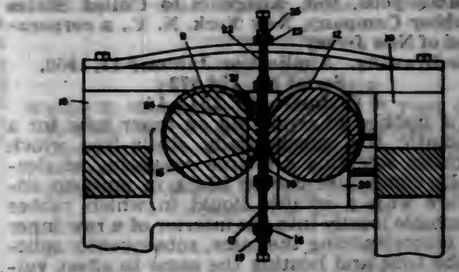
1. Apparatus for straightening sheet metal, comprising: a frame having an upper supporting surface; a pair of elongated bars carried by said supporting surface, said bars being in spaced-apart relation and providing spaced-apart surfaces engageable with the under side of the sheet; upright gibs of substantial length and carried by opposite ends of said frame; slide means, comprising portions having slide fit with said gibs at respective ends of said frame and portions extending upwardly beyond said supporting surface; another elongated bar secured to and in position between said upwardly extending portions and being movable through connection with said slide means between said spaced-apart bars in a direction toward and away from said spaced-apart bars, said other elongated bar being engageable with the upper side of said sheet and being movable in a direction toward said spaced-apart bars an amount sufficient to flex the sheet; fluid cylinder means, comprising a cylinder secured to said frame and a piston rod; and means providing for rockable connection between said piston rod and said slide means.

2,650,638
SPRING COILING DEVICE
Curt I. Johnsen, Vestal, and James A. Nerd, Johnson City, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application June 2, 1950, Serial No. 165,623
2 Claims. (Cl. 153—67)



1. A spring winding device of the character described, comprising a rotatable mandrel, means for winding wire stock upon said mandrel as the mandrel is rotated and restrained from longitudinal movement, said means including a member slidably mounted on said mandrel and adapted to be held from rotation during rotation of said mandrel, a bending tool eccentrically mounted upon said member for forcing the wire stock upon the mandrel during the winding operation, the wire engaging bending face of said bending tool extending without interruption directly from a face of said slidably mounted member against which the wire stock is forced during the winding operation, said eccentrically mounted bending tool adapted for adjustment towards and away from the winding face of said mandrel and with all surfaces of its wire engaging bending face, during proper adjustment of the bending tool, equally spaced from the mandrel a distance to just accommodate wire stock of the particular gauge being wound, and guide means also mounted upon said bearing member for feeding the wire stock between said bending tool and said mandrel as the latter rotates for winding the wire thereon, said wire guide means having its guiding surface generally paralleling the wire engaging bending face of the bending tool and adapted for adjustment on said bearing member in a direction paralleling the axis of the mandrel to provide the desired angle of entry of the wire onto the mandrel and the initial tension of the spring being produced.

2,650,639
MACHINE FOR STRAIGHTENING AND POLISHING METAL ROUND SECTION BARS OR TUBES
Ronald Hampton, Wightwick, near Wolverhampton, England, assignor to The Union Steel & Manufacturing Company Limited, Wolverhampton, Staffordshire, England
Application November 30, 1951, Serial No. 259,825
In Great Britain December 7, 1950
4 Claims. (Cl. 153—106)

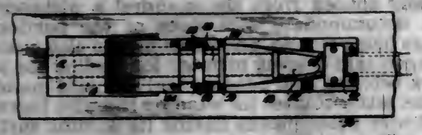


1. In a reeling machine the combination of two rolls of concave and convex form respectively mounted in longitudinal side-by-side relationship with their axes oppositely inclined to a common plane, a first longitudinally disposed bearer mounted at one side of said common plane and spaced from said plane a sufficient distance to define with said rolls, a first pass spaced from said plane for receiving a first work piece, and a second longitudinally disposed bearer mounted at the other side of said common plane and spaced from said plane a sufficient distance to define with said rolls, a second pass spaced from said plane for receiving a second work piece.

2,650,640
MACHINE FOR PRODUCING VENETIAN BLIND SLATS
George T. Cumming, Kansas City, Mo., assignor to William Volker and Company of Missouri, Inc., Kansas City, Mo., a corporation
Application August 2, 1948, Serial No. 41,936
6 Claims. (Cl. 154—1.7)

1. In a machine for making Venetian blind slats from a pair of elongated reinforcing mem-

bers and a flexible, heat-fusible tape having a body portion and a pair of longitudinal marginal edges, said machine including an elongated, horizontal frame; cooperable pressure rollers for pulling said tape longitudinally along the frame by passage of the tape between the rollers; a feeder separate from the pressure rollers and engageable with the reinforcing members for pushing said reinforcing members in spaced, parallel relationship to each other along the



frame, adjacent the uppermost face of the tape and in parallelism with the path of travel of the tape; means engageable with the moving tape for folding each marginal edge of the tape over a respective reinforcing member as the tape and the members continuously move along the frame together; and means for heating the tape after folding thereof for fusing said edges to said body portion of the tape as the tape passes between the rollers and said edges are pressed against the body portion thereby.

2,650,641

METHOD FOR RENDERING A PNEUMATIC TIRE INNER TUBE SUBSTANTIALLY STATIC-FREE

Herbert D. Hiatt, Indianapolis, Georgie P. McCord, Oklanden, and Lester C. Petersen, Indianapolis, Ind., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application January 11, 1950, Serial No. 138,072
3 Claims. (Cl. 154—14)

1. A method of rendering an inner tube for a pneumatic tire substantially static-free which comprises squirting a charge consisting of, electrically conductive carbon black in uniform admixture with a volatile liquid in which rubber is insoluble locally into the interior of a raw inner tube before splicing the same, subsequently splicing the tube and heating the same to effect vulcanization, said heat of vulcanization serving to volatilize said liquid, and venting the vapor from the still hot tube, thereby leaving a deposit of dry conductive carbon black powder, devoid of binding matrix, on the interior surface of the tube which becomes distributed from the area where the charge was originally squirted into the raw tube and becomes uniformly spread over the entire interior surface of the tube to form a conductive layer thereon in subsequent handling and use of the tube.

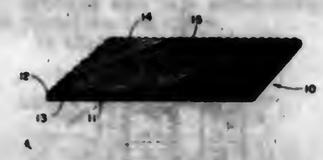
2,650,642

METHOD OF PREVENTING BLOWS IN MANUFACTURE OF PNEUMATIC TIRES

Joseph F. Reheiser, Eau Claire, Wis., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application August 24, 1950, Serial No. 181,207
1 Claim. (Cl. 154—14)

A method of making a pneumatic tire comprising the steps of providing reinforcing plies by calendering a skim-coating of vulcanizable rubber stock onto both sides of a tire fabric composed of parallel textile reinforcing elements, said textile elements having a diameter within the range of from 0.02 to 0.033 inch, the skim-coating on one side of said fabric being from 0.0025 to 0.006 inch thick so that said textile elements produce perceptible ridges in the surface of said skim-coating, and the skim-coating on the other side of said fabric being from 0.008



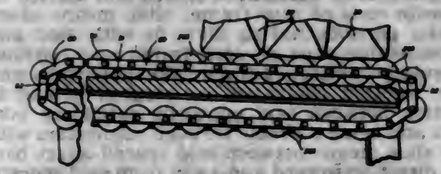
to 0.02 inch, superimposing a plurality of such plies on a tire building drum with said ridged surfaces facing upwardly to form a tire carcass, incorporating inextensible beads in the carcass, superimposing a vulcanized rubber tread and sidewall thereon, and shaping and vulcanizing the assembly.

2,650,643

SEALING MECHANISM FOR WRAPPING MACHINES

Alfred R. Fuchs, Kansas City, Mo.

Application April 3, 1948, Serial No. 18,745
24 Claims. (Cl. 154—42)



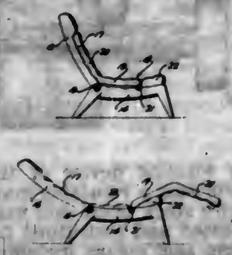
1. In a wrapping machine, sealing means comprising heating means, means engaging each wrapped package with said heating means, spaced rotatable heat conducting members arranged in a plurality of series, heat dissipating means in heat conducting relation with said heat conducting members, said series being arranged so that rollers in a plurality of said series engage said packages simultaneously, and means for making rolling contact between said package and each of said heat conducting members of each series in succession, and with a plurality of members of each series simultaneously.

2,650,644

CONTOUR CHAIR WITH MOVABLE PADDED SEAT

Leo C. Malco, Long Beach, Calif.

Application September 15, 1951, Serial No. 246,757
3 Claims. (Cl. 155—49)



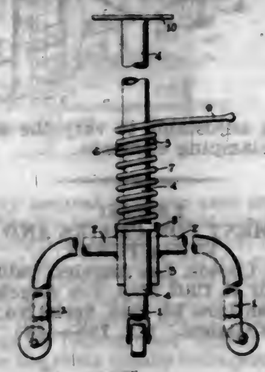
1. A contour chair with movable padded seat comprising a base, the top of said base being padded, a back, the front of said back being padded, means pivotally securing said back to the base, a padded seat adapted to rest on the top of said base in one position of the seat, and means hingedly attaching said seat to the base, said seat being movable upwardly and forwardly on said hinge means, a back portion projecting upwardly from said seat, said back portion resting on the chair back in one position of the seat and said back portion covering a part of the seat back.

2,650,645

CHAIR

Håkon Mörk Granlund, Oslo, Norway

Application January 9, 1951, Serial No. 205,851
In Norway January 9, 1950
3 Claims. (Cl. 155—52)



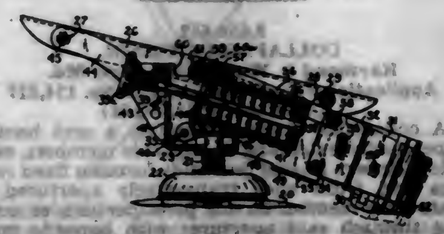
1. In a revolving chair, a foot portion including a guide, a seat-carrying stem rotatable in said guide, a helical spring surrounding said stem and freely rotatably mounted on the top surface of said guide, and protruding members on said stem extending outwardly between windings of said spring, the static friction between said protruding members and said spring being greater than that between said spring and said guide.

2,650,646

RESILIENTLY MOUNTED TILTABLE SEAT AND BACK REST

Walter F. Herold, Easton, and Henry Wheeler Parrett, Shelton, Conn., assignors to The Bassick Company, Bridgeport, Conn., a corporation of Connecticut

Application August 23, 1949, Serial No. 111,898
33 Claims. (Cl. 155—77)



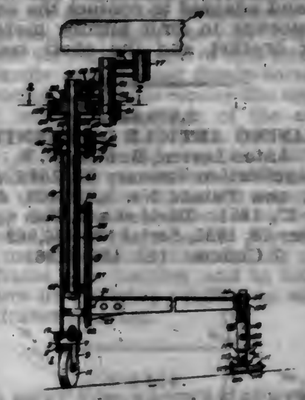
13. In a posture chair, a seat, a tilting supporting member movably connected to the rear part of the seat and pivoted to a fixed frame, a back movably connected to the supporting member adjacent the lower end of the back, and a common resilient support means for said supporting member and the back permitting independent movement of the back after the seat has reached the limit of its rearward tilt.

2,650,647

ADJUSTABLE SEAT ASSEMBLY

Edgar W. MacKnight, San Leandro, Calif.

Application September 5, 1950, Serial No. 183,245
6 Claims. (Cl. 155—61)



1. An adjustable seat assembly comprising a wheel truck; a standard extending upwardly from said wheel truck; a seat; means supporting said seat on said standard for movement laterally thereof; means for holding said standard at a slight tilt angle with the vertical; and means normally restraining movement of said seat in the direction of such tilt angle from a normal unoccupied position in the absence of an overpowering force applied to said seat and adapted to restore said seat to its normal unoccupied position upon release of such force.

2,650,648

CHAIR STRUCTURE

Walter E. Nordmark and Norman C. Peel, Grand Rapids, Mich., assignors to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey

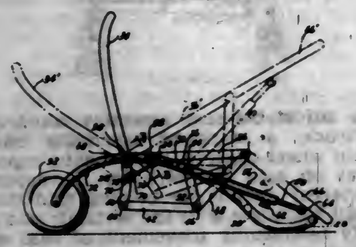
Application August 13, 1953, Serial No. 394,063
4 Claims. (Cl. 155—86)



1. In a chair structure: a supporting column having a vertical bearing in the upper end thereof; a pintle turnably disposed in said bearing and extending above the column; a stop projecting upwardly from the upper end of the column; a chair bracket mounted on the upper end of the pintle turnably therewith and having an upwardly embossed arcuate raceway concentric

with the pintle and embracing therein said stop; a chair seat secured to the bracket; and a molded washer interposed between the chair bracket and the upper end of the supporting column, said washer having an embossing snugly embracing the stop and adapted to contact the ends of the arcuate raceway to limit turning movements of the chair bracket and the chair seat carried thereby.

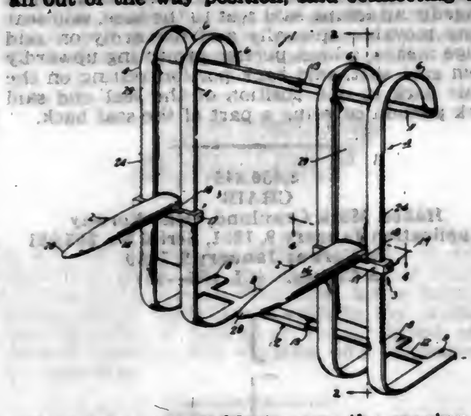
2,650,649
RECLINING ARTICLE OF FURNITURE
Anton Lorenz, Buffalo, N. Y.
Original application January 22, 1946, Serial No. 642,652, now Patent No. 2,576,466, dated November 27, 1951. Divided and this application November 19, 1951, Serial No. 256,983
7 Claims. (Cl. 155—106)



1. An article of repose for supporting the body of a person, comprising in combination: a support, a constrained linkage having stationary link-means and a plurality of movable links, said stationary link-means being included in said support, said movable links including a seat-member, a downward extension of a back-rest member, a guiding link and a chain of connecting links including a lower connecting link at one end of the chain and a front connecting link at the other end of the chain, at least one of said connecting links being arranged below the plane of the seat-member, one end of said guiding links being pivoted to said support, the other end of said guiding link being connected with at least one connecting link of said chain of connecting links, said lower connecting link being pivoted to the downward extension of the back-rest member, said front connecting link being pivoted to the front portion of said seat-member, means pivotally connecting at least one of said back-rest- and seat-members with said support, a leg-rest swingably mounted on the front portion of said seat-member, a controlling member fixedly connected to said guiding link, and cooperating abutting surfaces on said controlling member and the structure of said leg-rest for effecting movement of the latter in coordination with said controlling member.

2,650,650
ARMREST ATTACHMENT FOR VEHICLE SEATS
Derrell E. Brown, Pacific Grove, Calif.
Application February 3, 1950, Serial No. 142,166
5 Claims. (Cl. 155—113)

1. An armrest attachment for an automobile seat comprising a frame formed of spaced clamping elements adapted to engage the top and base of a seat back and connecting elements between said spaced clamping elements; and an armrest supported on each clamping element, said armrest being foldable to said seat back into an out of the way position, said connecting elements being adjustable to vary the spacing between said clamping elements.



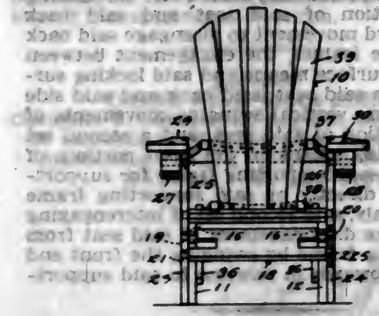
2,650,651
ATTACHMENT FOR CHAIRS AND OTHER STRUCTURES
Christian E. Cheate, Los Angeles, Calif., assignor of one-half to Cliff May, Los Angeles, Calif.
Application June 24, 1950, Serial No. 170,211
2 Claims. (Cl. 155—128)



1. An attachment for a chair, comprising: a tray, an arm fixed at one end to said tray and having an intermediate portion disposed to one side of the tray and a free end portion extending angularly from said intermediate portion, a pair of oppositely facing chair-engaging clasp members fixed on said intermediate portion and a clasp member fixed to said free end portion.

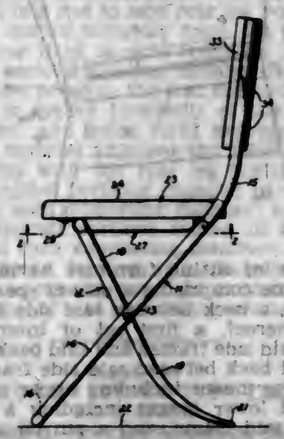
2,650,652
COLLAPSIBLE CHAIR
Raymond L. Watson, Elkridge, Md.
Application July 17, 1950, Serial No. 174,317
1 Claim. (Cl. 155—139)

A collapsible chair comprising a seat having dependently extending spaced side members, said side members having rear ends forming fixed rear legs and front ends transversely apertured, a transverse member having pivot portions extendible through said apertures with opposite ends disposed outwardly of said side members, a second transverse member having opposite ends extending coextensive with and spaced from said ends of the pivot portions of the first member, a spacer connecting said transverse members together to form a rigid member, a pair of rockable front legs fixed to said opposite ends, a stop means extending outwardly of said side members to limit the rearward rocking of said legs, a pair of chair arms rotatably secured at their forward ends to said legs with their rear ends spaced above said side members, pivot blocks having cylindrical apertures therein, depending from said rear ends a pair of spaced mounts having cylindrical apertures therein disposed rearwardly of said seat, a cross member comprised of a transverse flat portion having cylindrical ends rotatably carried by said mounts, a second cross member comprised of a transverse flat portion having cylindrical



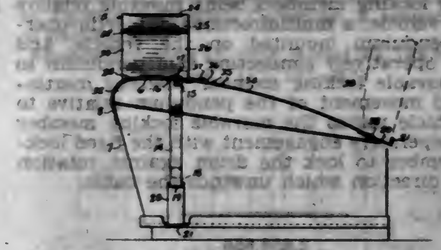
ends rotatably secured between said pivot blocks, and a back fixedly secured to said cross members for folded movement toward said seat on forward rocking of said legs, said seat having an extended center portion disposed under the back with said back foldable thereover, and said side members having under-cut portions spaced rearwardly of the front legs to receive said second transverse member with the chair totally collapsed.

2,650,653
FOLDING CHAIR
Lee Gethner, Chicago, Ill., assignor to Lee Industries, Inc., Chicago, Ill., a corporation of Illinois
Application March 24, 1950, Serial No. 151,760
1 Claim. (Cl. 155—143)



In a folding chair of the class described, the combination of, main and auxiliary frame side members pivotally connected intermediate their lengths and respectively having front leg and back rest portions and rear leg and seat supporting portions, a rigid seat structure, and means for mounting said seat structure on said main and auxiliary frame side members comprising a rod secured to the bottom face of the seat structure adjacent its rear edge, a portion of said rod being spaced from said seat structure and the ends of said rod being pivotally mounted in the main frame side member, a strap arranged on and having a portion spaced below the bottom face of the seat structure, said strap having its rear end bent downwardly and extending between the seat and the portion of the rod spaced therefrom and having its rearmost end rolled downwardly around said rod portion to retain the rear end of the strap in place, the forward end of said strap being off-set upwardly and secured firmly to said seat to thereby define a guide to receive the upper end of the seat supporting portion of the auxiliary frame side member, said seat being thereby mounted on said frame side members for downward pivotal folding movement relative to the main frame side member when the upper end of the auxiliary frame side member is moved rearwardly about its pivot to locate the auxiliary frame side member substantially in the plane of the main frame side member and to locate the seat structure in overlying relation to said auxiliary side frame member.

2,650,654
LEG REST FOR VEHICLE SEATS
Irving W. Twiford, Moorcroft, Wyo.
Application October 15, 1948, Serial No. 54,787
2 Claims. (Cl. 155—165)

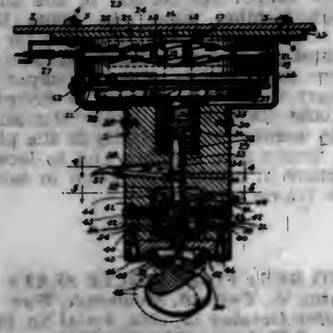


1. The combination with the operator's seat of an automotive vehicle including a seat cushion having a curved forward edge, and a back cushion, of a leg rest including a plate fitting upon the forward portion of the seat cushion with the forward portion of the plate curved downwardly to conform to the curved forward edge of said seat cushion, an upwardly-projecting abutment fixed upon one end of the plate against which the operator's leg may rest when disposed on said plate, a laterally-arranged strap connected to the other end of the plate and having a hooked metal anchoring strip upon the end thereof adapted to be engaged beneath the bottom edge of said seat cushion at the end thereof remote from said abutment, and a second, rearwardly-extending strap attached to the rear portion of said plate at said abutment and having a hooked metal anchoring strip upon the rear end thereof adapted to engage beneath the rear bottom edge of said back cushion to retain said plate and abutment in position on said seat cushion.

2,650,655
MULTIDIRECTIONAL INERTIA-OPERATED SAFETY DEVICE FOR VEHICLE CHAIRS
William R. Neahr and Robert L. Davis, Grand Rapids, Mich., assignors to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Application November 12, 1950, Serial No. 195,186
3 Claims. (Cl. 155—189)

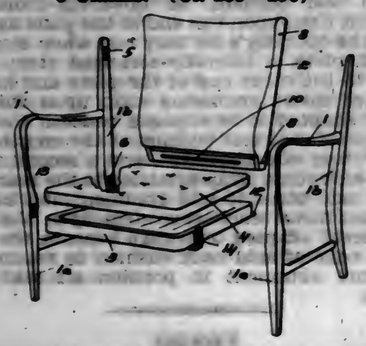
1. For use in a vehicle chair having a harness for the chair occupant attached to said chair,

a safety inertia-operable control device adapted to be secured to the free ends of said harness, said device comprising a drum rotatably mounted on the vehicle in association with the chair, a cable connected to the harness and to the drum whereby rotation of the drum in one direction winds the cable thereon to tighten the harness and opposite rotation of the drum unwinds the cable to relax the harness, a locking member on the vehicle and a cooperative locking member on the drum, one of said locking members



being fixed relative to the vehicle and the other of said locking members being movable relative to the vehicle, a multidirectionally inertia-operable pendulum mounted on the vehicle, and means operatively connecting said pendulum to said movable locking member whereby inertia-effected movement of the pendulum relative to the vehicle moves the movable locking member into cooperative engagement with the fixed locking member to lock the drum against rotation in the direction which unwinds the cable.

2,650,656
SITTING FURNITURE OF THE KNOCKDOWN TYPE
Folke Ohlsson, Malmo, Sweden, assignor to Kockx Snickerifabriker Aktiebolag, Malmo, Sweden, a corporation of Sweden
Application October 6, 1949, Serial No. 119,812
In Sweden October 28, 1948
5 Claims. (Cl. 155—196)



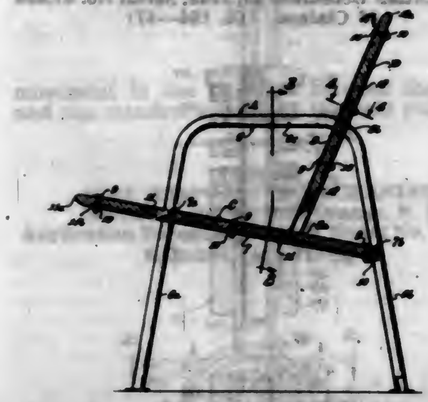
1. Sitting furniture having a supporting frame comprising a pair of spaced apart side frames, a back between said side frames at the rear thereof, a first set of interengaging means on said side frames and said back for supporting said back between said side frames, said interengaging means allowing disengagement of said back from said side frames by moving said back upwardly in relation to said side frames, a seat between said side frames, downwardly facing bearing surface means on the rear portion of said seat, upwardly facing bearing surface means on said back, said bearing surface means facing one another and abutting each other for supporting the rear portion of said seat by means of said back only, upwardly facing locking surface means on the rear portion of said seat, downwardly facing locking surface means on said side frames, said locking surface means facing one another and abutting each other for locking the rear portion of said seat and said back against upward movement to disengage said back from said side frames, the engagement between said bearing surface means and said locking surface means on said seat, said back and said side frames allowing vertical swinging movements of the front portion of said seat, and a second set of interengaging means on the front portions of said seat and said supporting frame for supporting said seat directly by said supporting frame at the front only, said second set of interengaging means allowing disengagement of said seat from said supporting frame by swinging the front end of said seat upwards in relation to said supporting frame.

2,650,657
SITTING FURNITURE OF THE KNOCKDOWN TYPE
Folke Ohlsson, Malmo, Sweden, assignor to Kockx Snickerifabriker Aktiebolag, Malmo, Sweden, a corporation of Sweden
Application October 6, 1949, Serial No. 119,813
In Sweden January 21, 1949
5 Claims. (Cl. 155—196)



1. A piece of sitting furniture having a supporting frame comprising a pair of spaced apart side frames, a back between said side frames at the rear thereof, a first set of interengaging means on said side frames and said back for supporting said back between said side frames, said interengaging means including upper and lower means, said lower means including a cammed surface on said frame, and a pin on said back slidably engaged therewith, said interengaging means preventing longitudinal movement of said back in a locking position and allowing disengagement of said back from said side frames by moving the lower end of said back in relation to said side frames by coaction of said pin and said cammed surface in such a way that at least the bottom end portion of said back is displaced in a disengagement direction substantially deviating from the longitudinal direction of said back during at least the first portion of the disengagement motion, a seat between said side frames, a second set of interengaging means on said seat and said supporting frame for locking said seat against displacement in relation to said side frames in said disengagement direction, and abutment surfaces on said seat and the bottom end portion of said back extending transversely in relation to the longitudinal direction of said seat, said surfaces on said seat and said back exerting a pressure upon each other opposing movement of the bottom end portion of said back in said disengagement direction.

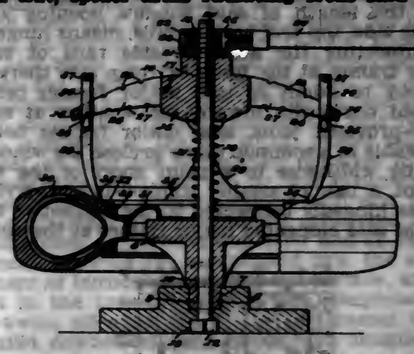
2,650,658
CHAIR WITH REAR SHELF
Christian E. Cheate, Los Angeles, Calif., assignor of one-half to Cliff May, Los Angeles, Calif.
Application June 24, 1950, Serial No. 170,218
5 Claims. (Cl. 155—196)



2. A chair comprising a pair of side units each including an inverted U-shaped leg member having front and rear leg portions connected by a cross portion, a channeled seat-supporting member fixed at one end to said rear leg portion, and at a point spaced inwardly from the other end thereof being fixed to said front leg portion, a channeled back-supporting member fixed at its lower end to a point on the seat supporting member which is spaced forwardly of the rear end of the latter, and being fixed between its ends to said leg member adjacent the juncture of the cross portion with the rear leg portion, a seat having marginal portions engaged in the channels of said seat supporting member; and a back having marginal portions seated in the channels of said back supporting members, said seat and back being formed of a plurality of sections having opposite marginal portions engaged in the channel of said supporting members.

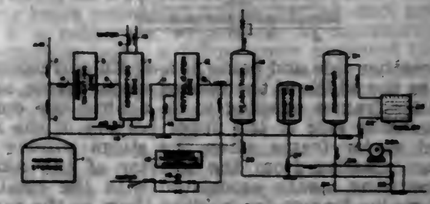
2,650,659
NUT ACTUATED SPIDER TYPE TIRE BEAD LOOSENER
Frank A. Morgan, Anderson, Ind.
Application September 27, 1951, Serial No. 248,541
2 Claims. (Cl. 157—1.3)

1. A tire bead loosener including a base, a standard projecting upwardly from the center of the base and non-rotatably connected thereto, a rotary wheel center support mounted on said standard and resting on said base, a spider having a hub slidably mounted on the standard in spaced relation to the said support, a nut threaded on the upper end of said standard, a coiled compression spring surrounding the standard between and seated against said support and hub and holding said hub yieldably against said nut, spider arms radiating from said hub,



and thrust members supported by and extending downwardly from said arms.

2,650,660
METHOD OF ADJUSTING THE CONCENTRATION OF AMMONIUM NITRATE SOLUTIONS
Tom E. Martin, Bartlesville, Okla., and Edward Edmunds, Jr., Albuquerque, N. Mex., assignors to Phillips Petroleum Company, a corporation of Delaware
Application June 15, 1950, Serial No. 168,232
6 Claims. (Cl. 159—47)

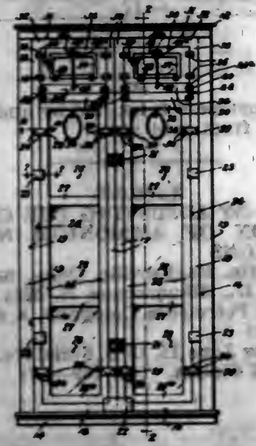


1. A method for adjusting the concentration of an aqueous ammonium nitrate solution which comprises passing a dilute solution of aqueous ammonium nitrate of at least a 65 weight per cent concentration which is at superatmospheric pressure into a vacuum evaporator at a temperature above the boiling point of a more concentrated solution maintained in the evaporator, said evaporator being maintained at a constant subatmospheric pressure of six inches of mercury absolute, introducing cooling water to said vacuum evaporator in a volumetric ratio of 5 to 20 volumes of water per 100 volumes of ammonium nitrate solution as required to compensate for a temperature rise, and maintaining the solution in said vacuum evaporator at a predetermined boiling point at the constant subatmospheric pressure by controlling the amount of water introduced thereby effecting controlled evaporation of water whereby an ammonium nitrate solution of the desired concentration is continuously produced.

2,650,661
COMBINATION STORM WINDOW AND SCREEN
Edward L. Clarke, Scranton, Pa.
Application July 12, 1949, Serial No. 104,332
7 Claims. (Cl. 160—217)

1. A foldable section storm window or the like adapted to be installed in the opening of a window frame from the inside of the room comprising in combination a pair of elongated major

frames of equal length and alignably disposed edge to edge, said major frames being shorter than the length of said window opening and having side, top and bottom rails, means hingedly connecting the adjacent side rails of said major frames at the inner or room side thereof, whereby to admit of said major frames being buckled outwardly toward the weather at said hinge-provided joint, said major frames being disposable in a common plane to close the window opening widthwise to a point short of the top thereof, a pair of smaller window-light carrying frames hingedly connected to the respective top rails of said elongated major frames at the outer



or weather side and being of a width corresponding to the width of the related major frame, said smaller frames adapted to lie against the outer or weather side of the upper portion of the related major frame when the storm window is being installed from the interior of the room, cooperating means associated with the smaller and major frames for holding them in the same plane to close the window frame opening, and window frame-carried means for retaining the storm window in operative position, one of said window frame-carried means engaging the hingedly connected inner side rails of the major frames to prevent same from buckling when finally positioned in the window frame opening.

2,650,662

MEANS FOR SECURING AWNING FABRIC TO AWNING ROLLERS

Errol P. D'Asso, New York, N. Y.

Application March 12, 1952, Serial No. 276,170
8 Claims. (Cl. 160—404)



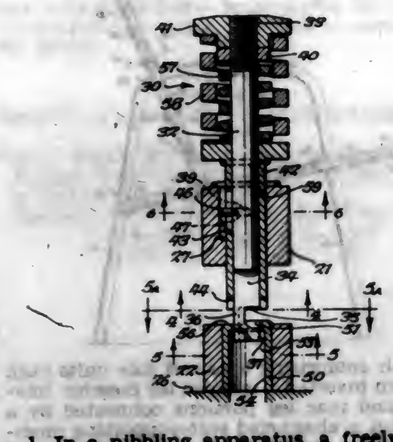
1. An awning roller to which is secured an awning fabric, comprising an elongated inner spool body, an elongated metal sheet bent about said spool body to form a sheath therefor, means securing together the meeting longitudinal edges of said sheet of metal to thereby hold said sheath against rotation with relation to said spool body, said spool body having a longitudinally extended groove in one side thereof, said sheath having a portion fitted into said groove forming a longitudinally extended outwardly opening channel, and anchor means inserted through the awning fabric and received within said channel securing the awning fabric to the roller, said spool body being formed of wood, said wooden spool body having a flat side diametrically opposite said groove, said securing means comprising an inturned seam formed along said meeting edges and abutted against said flat side.

2,650,663

APPARATUS FOR NIBBLING

George F. Wales, Kenmore, and Paul H. Tayler, North Tonawanda, N. Y.; said Tayler assignor to said Wales

Application December 29, 1948, Serial No. 67,954
13 Claims. (Cl. 164—47)



1. In a nibbling apparatus, a freely rotatable die having cutting edges, and a punch having a working end which in cross section is of generally circular segmental shape and which has meeting circumferential and chordal cutting edges, said die having complementary cutting edges, said punch being extended axially at one side beyond said working end to define a work stop section and a key, said key cooperating with said die to permit relative axial movement of said punch with respect to said die while preventing relative angular movement between said punch and die.

2,650,664

OIL TOOL

Lee S. Sorensen, Long Beach, Calif.

Application April 23, 1951, Serial No. 222,482
5 Claims. (Cl. 166—12)

1. A liner hanger including a sleeve internally provided with screw threads, a mandrel provided with screw threads for engagement with the threads of the sleeve to cause relative axial movement between the sleeve and the mandrel when one of said members is rotated, a head, provided with a tapered side wall, carried on the periphery of said mandrel, said head formed with an annular groove, a split bushing within said annular groove and means carried by the said sleeve and engaging said bushing for securing the head to said sleeve for relative rotation; an annular series of segmental slips, each slip provided with an arm and a collar surrounding

the mandrel and carrying the slip arms, said slips adapted to engage the said head, relative



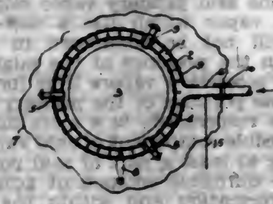
movement in one direction between the sleeve and the mandrel expanding the said slips.

2,650,665

FIRE RESPONSIVE MECHANISM

Melville F. Peters, East Orange, N. J.

Application December 30, 1949, Serial No. 135,263
6 Claims. (Cl. 169—23)



1. Means for indicating the presence of flames, comprising an indicator element, a source of electrical energy, and means including an electric circuit for delivering operating energy from said source to said indicator element, said electric circuit including a metallic tube having a coating of thermistor material which is a ceramic enamel and whose thickness is only a few thousandths of an inch, said coating being of high resistance at normal temperature and thereby preventing flow of electric current sufficient to actuate said indicator element, but of low resistance at abnormally high temperatures and thereby causing flow of electric current sufficient to actuate said indicator element.

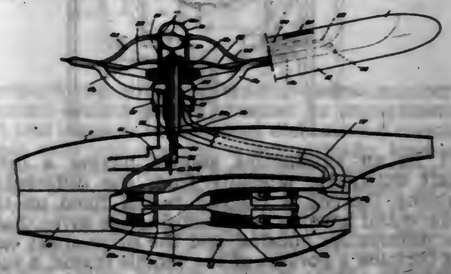
2,650,666

ROTARY-WING AIRCRAFT WITH JET-DRIVEN ROTOR

René Dorand, Versailles, and Paul Gabriet, Boulogne-Billancourt, France, assignors, by mesne assignments, to René Dorand, Versailles, France

Application July 16, 1947, Serial No. 761,366
In France July 25, 1946
19 Claims. (Cl. 170—135.4)

1. In a helicopter having a body, a lifting rotor positioned for rotation above said body and having blades, jet units secured to said blades for rotating the lifting rotor, a jet engine carried by said body and a feeding duct system fed by the said jet engine with pressure gas and connected to said blade jet units to convey thereto the pressure gas from said jet engine, said jet engine comprising an entrance diffuser, a multi-stage air compressor located downstream said diffuser for compressing the air which passes said diffuser, at least one combustion chamber in communication with and fed by said compressor, a gas turbine in communication with and fed by said chamber and operatively connected to the compressor for driving the latter and an exhaust nozzle allowing the escapement into the atmosphere of burned gas leaving the turbine, an outlet in the pressure zone of the compressor for drawing off a portion of the compressed air, an outlet downstream the combustion chamber for



drawing off a portion of the burned gas, said outlets being connected to the feeding duct system.

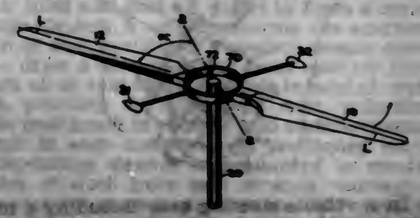
8. A helicopter, comprising, in combination, a helicopter body; a lifting rotor mounted for rotation above said body and having a plurality of blades, said blades having a plurality of suction ports located on each of said rotor blades in their exterior surfaces for sucking in the boundary layer of air at said rotor blades; a plurality of jet units respectively mounted in said blades for propelling the same; a jet engine mounted on said body; first duct means communicating with said suction ports and a low pressure region in said jet engine for leading the layer of air sucked in at said blades to said jet engine; and second duct means communicating with said jet units and at least one high pressure region of said jet engine for leading compressed air and hot gases from said jet engine to said jet units.

2,650,667

PIVOTALLY MOUNTED ROTATING WING FOR AIRCRAFT

Arthur M. Young, Buffalo, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y.

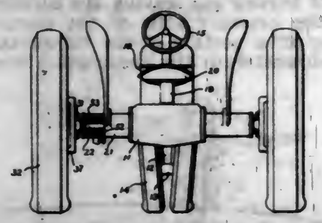
Original application April 5, 1946, Serial No. 659,905, now Patent No. 2,510,006, dated May 30, 1950. Divided and this application May 1, 1950, Serial No. 163,979
4 Claims. (Cl. 170—160.57)



1. A rotor comprising a drive shaft, a mounting member, pivot means connecting said mounting

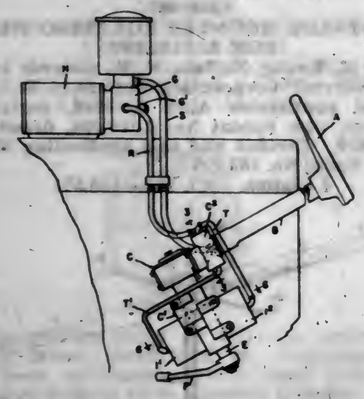
member to said drive shaft and defining a pivot axis, and blade means carried by said mounting member for movement about said pivot axis, said pivot axis intersecting the drive shaft axis and extending behind said blade means in view of the direction of rotor rotation at an acute angle with respect to the spanwise axis of said blade means.

2,650,668
TORSION SPRING MOUNTING OF TRACTOR DRIVE WHEELS
Richard B. Hopkins, Waukesha, Wis.
Application June 9, 1949, Serial No. 98,681
6 Claims. (Cl. 180—71)



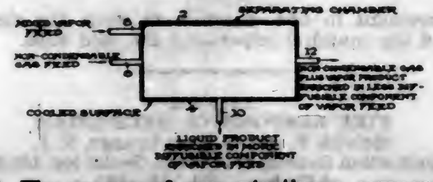
1. In an automotive vehicle having a drive shaft extending laterally from the differential housing thereof, a tubular casing fixed on the differential housing and enclosing the drive shaft, the differential housing and the drive shaft casing forming a portion of the vehicle frame, a tube rotatably mounted in and extending from the casing and having the drive shaft extending therethrough, bearings supporting the tube within the casing, a housing fixed on the tube and extending therefrom at a right angle to the axis of the drive shaft, a wheel axle rotatably mounted in the housing, gearing connecting the drive shaft with the axle, and a compressible and torsionally elastic member joining the casing with the tube for restraining oscillation of the axle about the drive shaft axis and for absorbing shocks acting on the axle housing.

2,650,669
MANUAL AND HYDRAULIC POWER ACTUATED STEERING GEAR
Charles F. Hammond, Grosse Pointe, Mich., assignor to Gemmer Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application May 2, 1949, Serial No. 90,858
8 Claims. (Cl. 180—79.2)



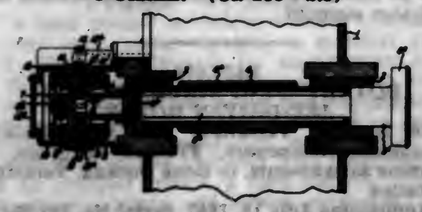
1. In a vehicle steering gear including a manually operable member, a booster motor and steering mechanism for alternative actuation by said manually operable member alone or with the assistance of said booster motor, said mechanism having therein a power increasing transmission; torque transmission means between said manually operable member and said power increasing transmission, including a rotary member having freedom for limited movement transverse to its axis and displaceable by torque reaction of the steering load, and valve means actuated by displacement of said member in either of opposite directions to energize said motor in a corresponding direction to carry a portion of the steering load.

2,650,670
MOLECULAR FILTRATION
Mario T. Cichelli, Wilmington, Del., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application January 26, 1950, Serial No. 140,733
36 Claims. (Cl. 183—3)



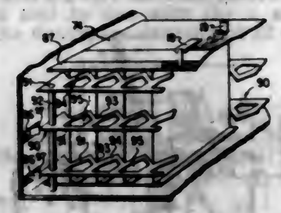
1. The process of concentrating a component of a primary vapor mixture which comprises introducing into a substantially unobstructed separating zone said primary vapor mixture and a secondary vapor which has a dew-point such that it will not be condensed in appreciable amounts in the presence of the mixture of primary and secondary vapors thus formed, forming separate portions of the primary vapor mixture richer respectively in a more diffusible and a less diffusible component of said vapor mixture, condensing at least a part of said portion richer in a more diffusible component adjacent to its place of formation and within the separating zone, removing the condensed portion enriched in a more diffusible component, and removing in vapor form the portion richer in a less diffusible component from its place of formation, said secondary vapor being sufficiently insoluble in the condensed portion that its rate of removal in vapor form exceeds its rate of removal in the condensate.

2,650,671
OIL DISCHARGE PASSAGE ARRANGEMENT FOR HIGH-SPEED BEARINGS
Sherman P. Brickett, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application September 25, 1952, Serial No. 311,241
3 Claims. (Cl. 183—3.5)



1. In a housing for a high speed rotor member, the housing defining with the rotor an annular vortex chamber and having means for supplying a liquid thereto, whereby the liquid is impelled at high tangential velocity in the vortex chamber, the combination of walls defining passages for removing liquid from the vortex chamber including a primary passage disposed tangentially with an inner end portion communicating with the vortex chamber and an outer end portion discharging tangentially into one end of a cylindrical secondary chamber disposed with its axis substantially at right angles to the axis of the primary chamber, said secondary chamber being at least twice the diameter of the primary passage, and baffle means disposed at the intersection of the primary and secondary chambers for directing the high velocity jet from the primary passage to form a vortex in the secondary chamber having high tangential velocity and a substantial axial component towards the other end thereof.

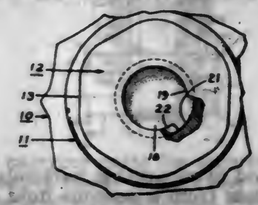
2,650,672
ELECTROSTATIC PRECIPITATOR
Robert L. Barr, Glenview, and Elmer G. Hills, Chicago, Ill., assignors, by mesne assignments, to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 6, 1948, Serial No. 19,377
5 Claims. (Cl. 183—7)



1. An electrostatic gas cleaning apparatus comprising a case, an ionizer, a collector, a fan, and a power supply, said case having top, bottom, end, and side walls, one of said end walls being removable and having an exhaust opening in the upper portion thereof, intake openings in said case adjacent the end opposite said one end, said ionizer and said collector being supported in said case on said bottom wall intermediate the ends thereof with said ionizer adjacent said intake openings and said collector adjacent said exhaust opening, said fan being supported from said top wall of said case in front of said exhaust opening and arranged to draw gas through said intake openings of the case, and through said ionizer and said collector and exhaust said gas through said exhaust opening, said power supply being supported by said top wall of said case above said ionizer and said collector and including conductor means projecting therefrom, said collector being removable from said case when said one end wall is removed and having terminals thereon adapted to engage said conductor means so that connections to said collector are automatically made and broken when said collector is placed in said case and removed therefrom.

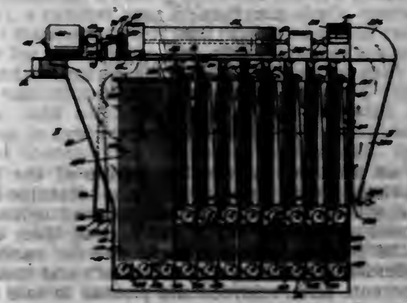
2,650,673
VENT AND FILTER PLUG CLOSURE
Horace L. Bering, Decatur, Ill., and Thomas P. Callahan, Springfield, Mass.
Application March 29, 1950, Serial No. 152,598
2 Claims. (Cl. 183—44)

1. A vent plug closure for containers comprising in combination a circularly formed body member, a flange extending outwardly circumferentially from the top of said body member, thread means exteriorly on said body member for engaging corresponding thread means in a container for liquids, a circularly formed baffle portion on said body member and depending from the bottom of said body member to minimize the splashing of liquids into the bottom of the body member, an outlet port axially in the top face of the body member, a well opening of substantially larger diameter than the outlet port and communicating therewith, an annular shoulder formed by and at the juncture of said outlet port and said well opening, a sealing gasket member in engagement with said annular shoulder, a substantially flat, round porous venting disk member



in engagement with said sealing gasket member, a second sealing gasket member in engagement with and beneath said venting disk, thread means within said well opening, a cylindrically formed locking member, thread means externally on said locking member to enable its engagement with said thread means in the well opening and in turn enable said locking member to impinge in liquid-tight engagement the said two sealing gasket members and porous venting disk member against said annular shoulder and within said body portion, and a pair of oppositely disposed notches in the lower edge of said locking member to enable engagement of a tore wrench.

2,650,674
DUST COLLECTOR
Elmer W. Thrailkill, North Kansas City, Mo.
Application November 10, 1950, Serial No. 195,615
6 Claims. (Cl. 183—61)



1. A dust collector comprising a housing having an air inlet and an air outlet, a series of vertically disposed apertured partitions disposed in spaced apart relation in said housing between said air inlet and said air outlet to form a series of compartments, a screen covering the aperture in each of said partitions, a suction means operable to draw a stream of air from said air inlet through all of said compartments to said air outlets, a plurality of dependent dust collecting strands positioned in each of said compartments, a trough in each compartment positioned below said depending strands and adapted to receive particles of dust from said strands, conveying means associated with said troughs and operable to move said accumulated dust from said troughs, and suction means operable whereby dust col-

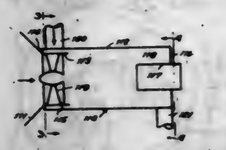
lected on the inflow side of said screens is removed therefrom and delivered to conveying means.

2,650,675

METHOD AND APPARATUS FOR THE SEPARATION OF PARTICULATE MATERIAL FROM ENTRAINING GASEOUS FLUIDS

John I. Yellott, Baltimore, Md., assignor to Bituminous Coal Research, Inc., Washington, D. C., a corporation of Delaware

Application March 9, 1950, Serial No. 148,594
13 Claims. (Cl. 183—80)



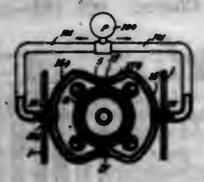
1. The method of separating particulate solids and fluid droplets from a gaseous fluid containing same, comprising establishing a primary spinning core of such material-bearing gaseous fluid within a secondary, co-flowing and co-spinning sheath of a colder gaseous fluid, whereby the said material is transferred from the primary stream to the secondary stream, and separating the said streams.

2,650,676

LUBRICATION OF WOBBLE PLATE INTERNAL-COMBUSTION ENGINES

Georges Charles Florent Joseph Ghislain Jamotte, Brussels, Belgium, assignor to Societe P. R. I. M., Societe Anonyme Holding de Perfectionnements et de Recherches Industrielles et Mecaniques, Merch Lez Luxembourg, Luxembourg

Application April 19, 1949, Serial No. 88,468
In Sweden April 22, 1948
1 Claim. (Cl. 184—6)



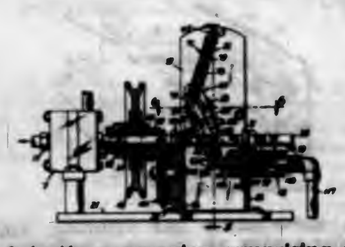
In an internal combustion engine of the type comprising, in a common casing, a rotatable hollow shaft, at least one set of opposed cylinders disposed about said shaft and having their axes parallel thereto, wobbler discs, one for each set of cylinders, rotatable with the shaft and mounted thereon, and reciprocating pistons in said cylinders; the improvement which comprises, for each set of cylinders, a swivel-carrier ring rotatably mounted on the corresponding wobbler disc and formed with two outwardly directed coaxial journal pins, each of said journal pins being provided with an axial bore opening in an annular chamber formed on the inner periphery of said ring, said ring being further formed with angularly equispaced peripheral swivels the number of which is equal to that of the cylinders of the corresponding set, each of said swivels being formed with a bore radially directed with respect to the ring, opening at the outer surface of said swivel and connected by a duct formed in the ring with said annular chamber; a frame member pivotally mounted on said journal pins and formed with two outwardly directed coaxial journals which are perpendicular to the common axis of said journal pins and which pass through the common casing while supported thereby, said journals being respectively formed with bores opening outwardly and interconnected by at least one duct formed in said frame and which communicates with the bores of said journal pins; hollow connecting rods pivotally connected respectively with the pistons and formed with hollow spherical crankheads engaging said swivels, each of said spherical crankheads having an inner recess adapted to connect the corresponding hollow connecting rod with the bore opening at the periphery of the corresponding swivel; and an oil-pump connected with the bores of said journals, whereby, notwithstanding the hollow shaft, a lubrication under pressure is ensured for the journals, the journal pins, and the crankheads of the hollow connecting rods by the oil delivered by said oil-pump.

2,650,677

LUBRICATING APPARATUS

Victor G. Klein, Overland, Mo., assignor to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri

Application August 28, 1950, Serial No. 181,819
16 Claims. (Cl. 184—27)



1. Lubricating apparatus comprising a lubricant pump having an outlet for connection of a lubricant line for supplying lubricant to one or more injectors provided for lubricating a power-driven device, a drive for the pump including a clutch having a driving element adapted to be driven through a power take-off from the device to be lubricated, a control operable on the clutch for engaging and disengaging it, a timer adapted to derive power for its operation from the source of power for the power-driven device and acting periodically on the control to engage the clutch thereby periodically to initiate operation of the pump, and means responsive to pressure developed by the pump acting on the control independently of the timer to disengage the clutch to terminate operation of the pump following each initiation of operation thereof by the timer upon development by the pump of injector-cycling pressure.

2,650,678

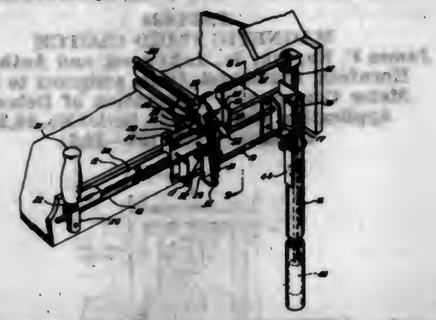
CHECK-OUT DEVICE

Park L. Newbold, Cedar Rapids, Iowa

Application August 14, 1950, Serial No. 179,135
2 Claims. (Cl. 186—1)

1. In a checkout device the combination of a pair of side members, a pair of parallel spaced bars supported on one of said side members, a bottom, a pair of supporting legs, a main pull bar, a handle attached thereto, a series of rollers so disposed that they support the main pull bar and roll upon the said parallel spaced bars, an L-shaped lever arm pivotally attached to the main pull bar, said L lever arm having downward extensions with cross bars and a roller attached thereto, an actuating roller anchored to

the L arm and adapted to contact a stationary torque member to effect a turning motion upon application of pressure, a gravity counteracting tension spring attached to the said L lever assembly and anchored to a pull bar member, a latching mechanism pivotally attached to the pull bar



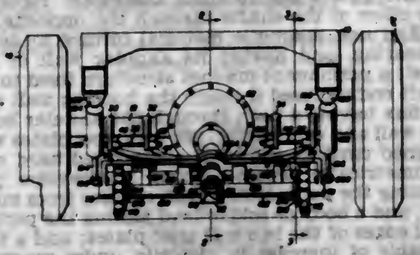
and controlled by the movement of same, a flexible means with a weight attached thereto and so disposed that a downward movement of the weight effects a longitudinal movement of the pull bar, and a guard member placed at the rearward end and in line with the L arm lever to enclose the downward movement of same.

2,650,679

GROUND BRAKE

Patrick Durkin, Chicago, Ill.

Application January 14, 1953, Serial No. 266,266
9 Claims. (Cl. 188—5)



1. In a vehicle having a vehicle frame and a rear axle housing, an auxiliary ground engaging member comprising a plurality of brackets mounted on the rear axle housing, a first frame journaled on said brackets for oscillation about an axis parallel to said housing, a hollow shaft extending through said first frame, a U-shaped frame mounted on said hollow shaft and journaled for oscillation about an axis perpendicular to said housing, means connected between said vehicle frame and said U-shaped frame for oscillating said first frame about said parallel axis, ground engaging wheels journaled in said U-shaped frame, brake means operatively engaging said ground engaging wheels.

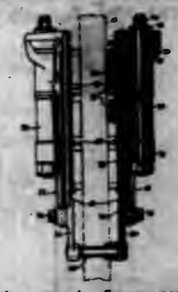
2,650,680

BRAKE MECHANISM WITH REMOVABLE SHOES

Joseph H. Coombes, Jenkintown, Pa., and William Mann, Grosse Pointe, Mich., assignors to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania

Application May 18, 1949, Serial No. 93,924
4 Claims. (Cl. 188—59)

1. In combination, a rotary brake disc having opposite faces, a brake head carrying a brake shoe designed for cooperation with one of the faces of said rotary brake disc, a similar but opposite such head carrying a brake shoe designed for cooperation with the other face of said disc, the lower ends of the heads being provided with removable and interchangeable similar



brackets carrying parts for securing the shoes to the respective heads and further carrying interfitting parts of guiding means designed to maintain the brake heads parallel to each other and to the rotary brake disc.

2,650,681

BRAKE ADJUSTING APPARATUS

Roy H. Shively, Scranton, Pa.

Application February 16, 1950, Serial No. 144,490
9 Claims. (Cl. 188—79.5)



2. Brake adjusting apparatus comprising in combination, a casing turnable about a brake cam shaft, a ratchet gear on said cam shaft, operating pawl means between said casing and said ratchet gear for turning the cam shaft to apply the brake, an adjusting ratchet pawl carried by said casing and cooperating with teeth on said ratchet gear, said adjusting pawl being mounted in a recess in said casing to have limited radial movement therein and limited circumferential movement, striker elements extending from said adjusting pawl in guideways in the casing and having striker ends projecting from said casing, and fixed abutment elements cooperating with said striker elements to actuate the adjusting pawl as the casing turns back and forth in the operation of the brake cam shaft.

2,650,682

ELECTROMAGNETIC FRICTION DEVICE

John George Oetzel, Beloit, Wis., assignor to Warner Electric Brake & Clutch Company, a corporation of Illinois

Application January 18, 1949, Serial No. 71,754
1 Claim. (Cl. 188—164)

In a friction torque producing device having relatively rotatable magnetic rings adapted for axial gripping engagement, a magnet including rings of magnetic material concentric with each other and terminating at their ends in annular pole faces lying substantially in a common plane normal to the axis of the rings, and a member composed of non-magnetic material of greater wear resistance than said pole faces spanning

and rigidly supported by said rings and having a machined surface substantially flush with said pole faces, said machined surface being undercut below said plane and sloping progressively inwardly and outwardly respectively from the



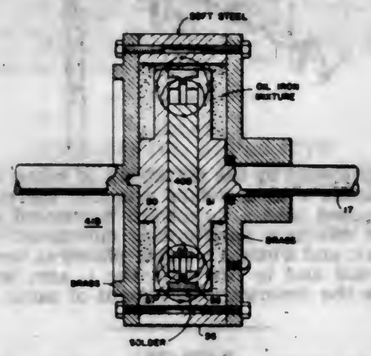
outer and inner pole faces to a maximum depth intermediate said faces of a few thousandths of an inch whereby to impart to the surface before service use of the magnet a dished contour approximating that resulting from frictional wear and heating in actual service.

2,650,683
METAL-TO-CERAMIC SEAL
Kenneth H. McPhee and Harry W. Soderstrom, Cedar Rapids, Iowa, assignors to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application November 3, 1949, Serial No. 125,354
3 Claims. (Cl. 189—36.5)



1. A sealed joint for evacuated devices, comprising a tubular insulator having an annular end face at one end which is substantially flat, a metal member, and means sealing said metal member to said end of the tubular insulator, said means including a metal sealing ring having inner and outer flat portions joined by an intervening flexible portion extending at substantially right angles to said flat portions, the inner flat portion of said sealing ring being in contact with the flat face at the end of said insulator and said intervening portion being in contact with the peripheral end of said insulator, sealing material between said sealing ring and said end of said insulator, and a separate rigid ring located between the said flat end face of said insulator and said metal member receiving the end thrust between said insulator and said metal member in response to temperature changes in said insulator while allowing said intervening portion to flex.

2,650,684
MAGNETIC FLUID CLUTCH
James F. English, Jr., Lakewood, and Anthony J. Hornfeck, Lyndhurst, Ohio, assignors to Bailey Meter Company, a corporation of Delaware
Application May 20, 1949, Serial No. 94,288
2 Claims. (Cl. 192—21.5)

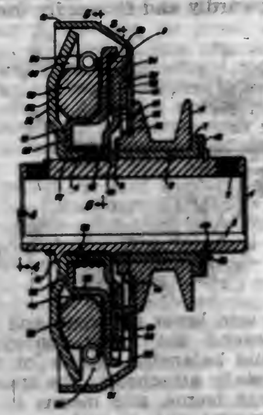


1. A magnetic fluid drive-slip clutch including in combination; a first shaft; a second shaft; a cylindrical fluid tight housing, secured by an end wall of non-magnetic material to only one of the shafts for rotation therewith, receiving the other of the shafts through the opposite end wall of non-magnetic material formed to act as a bearing, and having its annular wall of soft steel; a permanent magnet structure fixed to the shaft end received through the housing wall with its flux having a path through the annular housing wall and comprising, two soft steel plates with aligned cavities, a disc of magnetized hard steel symmetrically deposed within the cavities preventing the perimeters of the cavities from meeting, and a body of solder-lead joining the peripheral edges of the two soft steel plates; and a fluid capable of increase in viscosity under magnetic influence filling the housing around the magnet structure.

2,650,685
CENTRIFUGAL CLUTCH
Arthur M. Wickwire, North Canton, and Ralph M. Kessel, Massillon, Ohio, assignors to Automatic Steel Products, Inc., Wilmington, Del., a corporation of Delaware
Application February 21, 1951, Serial No. 212,126
3 Claims. (Cl. 192—105)

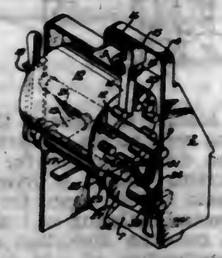
1. In a weight actuated centrifugal clutch, a rotatable driving member including axially spaced torque and back plate means forming an annular compartment therebetween, said torque and back plate means being fixed against relative movement with respect to the driving member for rotation therewith, flat friction shoe means driven by the torque plate means and movable axially relative thereto, pressure plate means in said compartment movable axially relative to said torque and back plate means and engageable with said friction shoe means, a series of separable weight segments forming an annular weight ring loosely suspended on said pressure plate means between said back and pressure plate means with clearance between the said ring segments and said back and pressure plate means

when the clutch is at rest, said weight ring segments always being out of contact with said torque plate means, complementary wedge surfaces on said weight segments and back plate



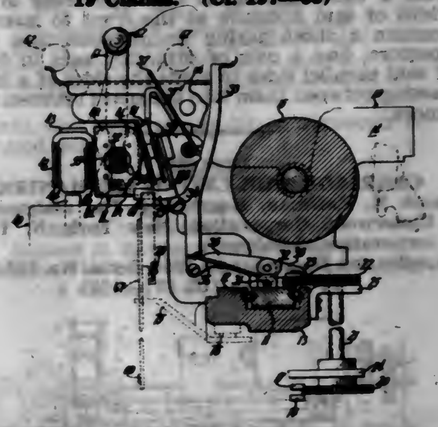
means engageable when said segments are thrown outward by centrifugal force upon rotation of the weight ring, and a driven member housing having an engaging surface adjacent said friction shoe means.

2,650,686
TOY BANK
Emile B. Bigué, Beverly Hills, Calif., assignor to Bigier Manufacturing Company, Las Vegas, Nev., a copartnership
Application February 18, 1950, Serial No. 145,067
3 Claims. (Cl. 194—54)



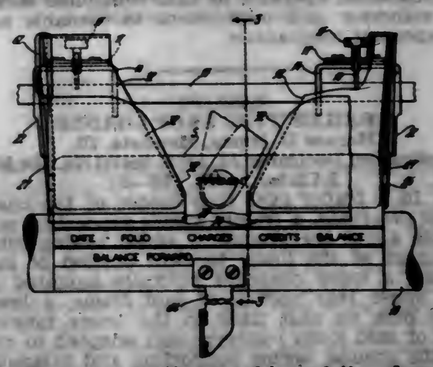
1. A toy bank, involving: a housing defining a generally vertically extending coin chute, a coin receiving slot at the upper end of the chute, and a discharge aperture at the lower end of the chute; a coin operated latch near the coin receiving slot; an indicia bearing drum rotatable in said housing and having a ring of axially directed pins at one end; said latch having an end, adapted to enter between said pins to restrain said drum, and movable to free said drum on insertion of a coin in said receiving slot; a countershaft oscillatably mounted in said housing and having an exposed end; a handle for said exposed end; a pawl means mounted on said countershaft and engageable with said pins to advance said drum on oscillation of said handle; a coin restraining lever journaled on said countershaft and including an end extending into said coin chute near its discharge aperture to restrain coins therein and an end extending in proximity to said ring of pins; and a cam member on said drum disposed to engage said coin restraining lever to release coins accumulated in said chute.

2,650,687
STOP POSITIONING MECHANISM FOR TYPEWRITERS
William F. Helmond, Clinton, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware
Application May 26, 1948, Serial No. 29,253
19 Claims. (Cl. 197—63)



1. In a typewriting machine having a carriage movable on a frame; adjustable stop means for the carriage comprising, a bar extending parallel to the carriage, a stop carried on said bar for adjustment to different carriage stopping positions therealong, means to give said bar different rotative positions about an axis lengthwise of the bar, means extending lengthwise of said bar to confine said stop against rotation with the bar about said axis, rack means extending lengthwise on said bar, and tooth means on said stop respectively engageable and disengageable from said rack means by giving said bar different rotative positions about said axis, whereby said stop is adapted to be adjusted and locked in different positions lengthwise of said bar.

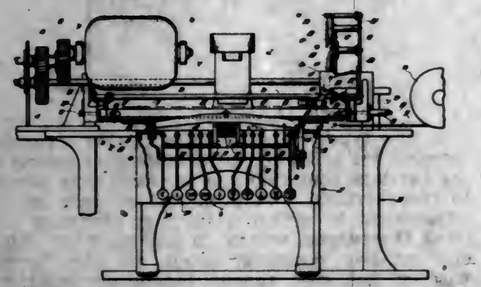
2,650,688
PAPER GUIDE FOR ACCOUNTING MACHINES
Walter A. Andersen, Trumbull, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware
Application November 2, 1951, Serial No. 254,543
3 Claims. (Cl. 197—127)



3. In an accounting machine of the class described having a carriage, a platen in said carriage and feed rolls cooperative with said platen to form a throat for insertion of a work sheet in front of said platen, the combination of a paper

guide supporting ball, and a pair of paper guides mounted thereon to guide a work sheet into said throat, said guides comprising front and rear sections converging into a narrow parallel sided aperture so positioned as to direct a work sheet into said throat, side walls to the rear of the parallel sides of said aperture and converging from a wide opening at the upper rear to the width of said aperture at the front to laterally position a sheet during its insertion into said aperture, and a pair of diverging ears in front of said parallel sides to guide the sides of a sheet passing between them into the space between said guides.

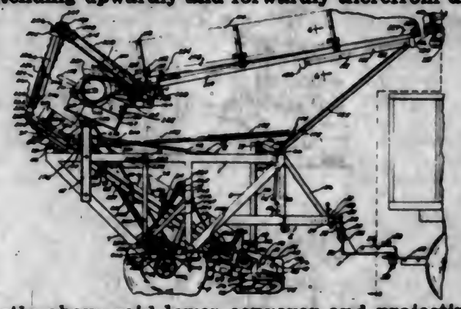
2,650,689
CARRIAGE TABULATING MECHANISM
Jacob N. Hoffman, Harrisburg, Pa., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware
Application December 26, 1950, Serial No. 202,768
11 Claims. (Cl. 197—178)



4. In a typewriting machine having a frame, a carriage mounted on said frame for movement in a tabulating direction and return, means to move said carriage in said tabulating direction and an escapement mechanism to restrain said carriage against movement in said direction, a tabulating mechanism comprising, a tabulator key, a connection including an interponent between said tabulator key and said escapement mechanism to disable said escapement mechanism upon depression of said key, a fixed stop, a stop blade projectable by said tabulator key, said fixed stop and said stop blade when projected being relatively movable in intersecting paths, means controlled by said fixed stop when struck by said projectable stop blade to withdraw said fixed stop from said stop blade, and a connection operable by said controlled means to withdraw said interponent to reenable said escapement mechanism.

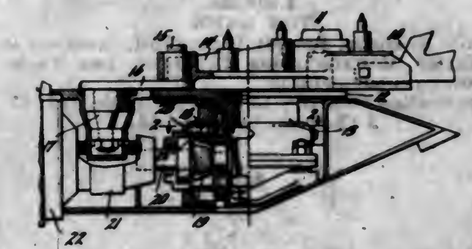
2,650,690
TRAILER TYPE CROP LOADER
Horace D. Hume, Mendota, Ill.
Application December 13, 1950, Serial No. 200,578
3 Claims. (Cl. 198—9)

2. In a trailer type crop loader of the character described, a frame, wheels supporting said frame above the ground, a swivel towing hitch mounted at the lower forward portion of said frame, a lower conveyor pivotally mounted on the upper rear portion of said frame, a lower crop pick up unit fixed to the lower forward end of said lower conveyor and adapted to ride on the ground, spring supporting and balancing means for the forward end of said lower conveyor, a deflecting apron pivotally mounted at the rear of said lower conveyor and extending upwardly therefrom, supporting posts extending upwardly from the upper rear portion of said frame, an upper crop pick up unit pivotally mounted on the top of said supporting posts, support means extending from said upper crop pick up unit to said deflecting apron, an upper conveyor fixed to said upper crop pick up unit and extending upwardly and forwardly therefrom di-



rectly above said lower conveyor and projecting forwardly beyond the lower conveyor, spring supporting and balancing means for said upper conveyor pivotally attached to the upper forward portion of said frame, and means to raise and lower the forward end of said upper conveyor.

2,650,691
COAL LOADING MACHINE
Cosby R. Fry, Summersville, W. Va.
Application October 1, 1952, Serial No. 312,625
5 Claims. (Cl. 198—10)



1. In a coal loading machine of the type having a gathering mechanism comprising gathering fingers and driving means for said fingers including a driving pinion, a driven ring gear meshing with said pinion, means for driving said pinion and a casing inclosing said ring gear and pinion, means resisting distortion of said ring gear due to overloading of said gathering fingers, said means comprising a backing member inserted between said ring gear and said casing on the side of the ring gear away from said pinion and at a point opposite the point of engagement of said ring gear and pinion.

2,650,692
MATERIAL LOADING APPARATUS
Charles N. Bebinger, New Philadelphia, Ohio, assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application November 28, 1947, Serial No. 788,703
6 Claims. (Cl. 198—14)



3. In a material loading apparatus, the combination comprising a mobile support, an elongated oscillatory gathering and elevating head extending longitudinally above said support and having a front penetrating edge disposable near the ground surface, means for mounting said head in a forwardly and downwardly inclined position on said support for oscillatory movement relative to the latter with its penetrating edge close to the ground surface, said mounting means including parallel arms pivotally mounted on said support and pivotally connected to said head for supporting said head for oscillatory motion, means for imparting a short-stroke oscillatory motion to said head to effect gathering and loading of loose material comprising a lever arm pivotally mounted on said support, and means for operatively connecting said arm to said head, and counterweight means for said head to reduce the vibration set up within the apparatus during its operation comprising an elongated counterweight disposed beneath and in substantial parallelism with said head between the latter and said support, parallel swingable supporting elements mounted on said support for supporting said counterweight for oscillatory motion relative to said head in opposition to head-movement, said lever arm of said motion imparting means connected to and swingable with one of said supporting elements for said counterweight.

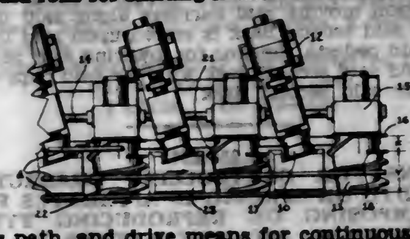
2,650,693
FLOW CONTROLLER FOR GRANULAR SOLIDS
William R. King, Borger, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
Application April 30, 1951, Serial No. 223,757
9 Claims. (Cl. 198—57)



1. A flow controller for granular solids comprising in combination a body, a plurality of pulleys rotatably mounted on said body, a conveyor belt disposed on said pulleys, means to move said conveyor belt, a supporting member secured to said body supporting a portion of said belt, a hopper mounted a predetermined distance above a portion of said belt above said supporting member, flexible guides disposed in said body and secured thereto above said belt covering the edges thereof, and a valve pivoted to one of said guides disposed between said belt and said guide movably to expose a predetermined variable area of said belt within the angle of repose of the solids descending through said hopper onto said belt, so that the solids flowing onto said exposed area will be conveyed away at a rate which is a direct function of the size of said exposed area.

2,650,694
KICKOUT DEVICE
Stevenson Findlater, Pittsburgh, Pa., assignor to United States Steel Corporation, a corporation of New Jersey
Application December 26, 1950, Serial No. 202,587
9 Claims. (Cl. 198—104)

1. The combination, with a conveyor which includes article supporting means adapted to move articles in a path, of a kick-out device comprising a series of rolls supported intermediate said article supporting means and below the level thereof, a cam on each of said rolls under the path of articles on said supporting means for lifting articles therefrom, a helical flange on each of said rolls for shifting lifted articles sidewise of



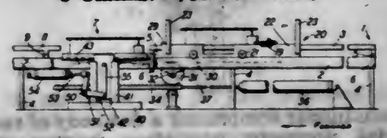
this path, and drive means for continuously rotating said rolls.

2,650,695
BELT CONVEYER DRIVE
Samuel D. Robins, Lawrence, N. Y.
Application February 11, 1950, Serial No. 143,767
8 Claims. (Cl. 198—203)



3. In a conveyor of the kind including an endless belt having a continuous load supporting surface extending between head and tail pulleys and having more than one drive means for the belt, one of the said drives being located at a point in the working run intermediate the head and tail pulleys: belt tension feeler means adapted to respond to belt tension variation independently of the variation of the weight of material supported by the belt; control means for at least one of the drive means actuated by said feeler means; the working run of the belt engaged by the feeler means being stretched beyond its relaxed length to an extent such as to subject it, when running empty, to a mean tension approximately equal to the mean tension of the working run when it is being driven under normal working load, whereby the length of belt between drives is maintained constant.

2,650,696
RECIPROCATING CONVEYER
Stanley James Gedris, Grand Rapids, Mich.
Application July 28, 1950, Serial No. 176,509
5 Claims. (Cl. 198—221)



1. In a horizontal conveyor for transporting a pair of foundry flasks having a first pair of spaced rails forming a first track and a second pair of spaced rails forming a second track, said first track disposed above said second track and between said second pair of spaced rails, the combination comprising: a pedestal; a pair of rails mounted on said pedestal, said rails being spaced apart the same distance as the rails of said first track; a carriage mounted upon said second track for reciprocating movement; a pair of oppositely disposed pegs on one end of said carriage for contacting the first of said flasks and urging it along said first track; a pair of clips pivotally mounted on said carriage for engaging the second of said flasks and urging it along said first track;

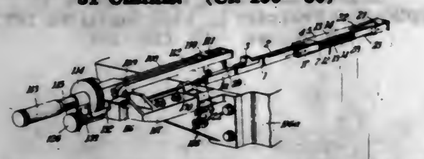
means for imparting reciprocating movement to said carriage along said track, said means in one direction moving said carriage along said track until said second flask is seated upon said track on said pedestal; means for lowering said pedestal and said second flask whereby said clips disengage said second flask.

2,650,697

MEANS FOR CONTROLLING CHARACTER WIDTH OR SPACING IN APPARATUS FOR COMPOSING OR REPRODUCING TYPOGRAPHICAL AND LIKE MATTER

Henry George Croucher, Beccles, England, assignor to William Clowes & Sons Limited, Beccles, England

Application June 8, 1951, Serial No. 230,642
In Great Britain June 13, 1950
31 Claims. (Cl. 199—30)



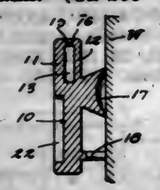
1. In or for apparatus for reproducing typographical matter by successive character forming operations and comprising a periodically movable member the travel of which determines the width and spacing of the characters in the line of typographical matter, a displaceable control wedge device for interposition in the path of such periodically movable member to limit the periodic travel thereof to variable amounts and comprising a body, a plurality of elements arranged for pivotal movement in the body and each formed to determine the position of a limit controlling face with said faces constituting a unit like series, and means for controllably varying the inclinations of said elements with respect to a datum for obtaining desired variation in set sizes in the reproduction of lines of typographical matter.

2,650,698

COIN NOVELTY METER

Frank G. Castner, Bridgeport, Ohio

Application June 25, 1951, Serial No. 233,443
1 Claim. (Cl. 206—0.81)



A coin holder comprising a flat body of resilient material, upwardly projecting front and rear walls carried by said body, end walls connected between said front and rear walls, confronting beads carried by said front and rear walls cooperating with said walls in frictionally clamping coins therebetween, said beads forming a pocket of greater width than the space between said beads, said body having an elongated flat recess in the front face thereof below said pockets and of a depth to extend beneath a portion of said pocket for yieldably holding a card, means carried by the upper portion of the rear wall of said body for securing the same to a vertical flat surface, and means below said last-mentioned means for spacing the lower portion of said rear wall in parallel relation to said vertical surface.

2,650,699

COIN HOLDER

Cornelius J. Donovan, New York, N. Y.

Application June 6, 1952, Serial No. 292,636
4 Claims. (Cl. 206—0.83)



4. A coin-holder comprising a flat, pocket-like body member having a pair of coin channels in each of which a row of coins is arranged in inclined and overlapped relation, a separating member located between the coin channels, the coin channels being defined by a pair of side bars, the side bars having guide grooves, a cover member in the form of a flexible sheet slidably positioned in said guide grooves and movable therein, the coin channels being open at one end to permit of the removal of coins out of said open end, the cover member being slidable in said grooves to either extend over and close the open ends of the channels or else expose said open ends, the cover when in its closed position, exposing some of the coins in each channel.

2,650,700

CUSHIONED EYEGLASS CASE

Ruth Wolf, New York, N. Y.

Application November 29, 1950, Serial No. 198,159
1 Claim. (Cl. 206—5)



An eyeglass case in the form of a scabbard-like structure having a permanently open mouth at one end, said structure comprising a pair of oppositely located walls each having interiorly thereof a cushioning layer of a material having a resiliency of the order of that of sponge or foam rubber, each of said walls having an outer covering for said cushioning layer consisting of a thin highly pliant and flexible sheet member and an inner covering or liner consisting also of a highly pliant and flexible sheet member, the inner face of said lining sheet member having a flannel-like nap, said scabbard-like structure being permanently closed all around one side and the bottom and a part of the other side thereof adjacent to the bottom, and there being an openable closure in the form of a slide fastener for the remaining part of the last-named side of said structure, whereby that side of said structure may be readily temporarily opened up to transform the case into an eyeglass-lens cleaning implement.

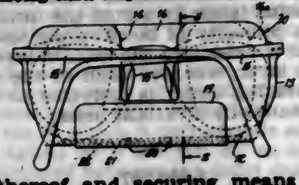
2,650,701

SPECTACLE CASE

Kendrick T. Parsell, Manhasset, N. Y.

Application December 18, 1951, Serial No. 262,262
4 Claims. (Cl. 206—5)

1. A spectacle case comprising a protective envelope member having lens protecting portions maintained in spaced-apart relation by a closed marginal portion, the opposite margin being open for receiving a spectacle frame between said lens protecting portions and at least one of said portions being centrally recessed from said open margin to receive the nose rest part of the spectacle frame, lens cleaning elements presenting lens cleaning material disposed between said lens protecting portions, means for maintaining said lens cleaning elements in proximate spaced relation for providing contact between said lens cleaning material and the lenses of a spectacle frame inserted therebetween, a manually actuatable member disposed outside of said envelope member along and adjacent said closed marginal



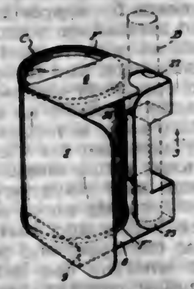
portion thereof and securing means extending from the exterior to the interior of said envelope member for securing said manually actuatable member to said lens cleaning elements, said manually actuatable member, said securing means and said lens cleaning elements being carried by said envelope member for movement as a unit relative to said envelope member and to the lenses of a spectacle frame disposed between said lens cleaning elements for cleaning said lenses responsive to manual actuation of said manually actuatable member.

2,650,702

BAND-TYPE DISPLAY CARTON

Curtis M. Shanahan, Chagrin Falls, Ohio, assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware

Application July 9, 1953, Serial No. 297,910
6 Claims. (Cl. 206—47)



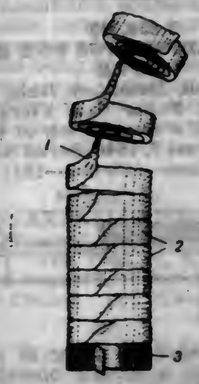
1. In combination, a band type carton including top and bottom wall panels, opposite side wall panels connecting the top and bottom wall panels, means carried by one of the first said wall panels for engagement with an adjacent end portion of a can-like container embraced by the several said panels of the carton for securing the container against accidental displacement from the band at one of its open sides, a flap member connected with one edge of one of said wall panels and extending into the path of displacement of the container from the carton at the opposite side of the band, a strap-like member connected at one end with and formed partly from within the bounds of said flap member and connected at its other end with and formed partly from within the bounds of the wall panel to which said flap member is connected, and a relatively rigid commodity item having a length greater than the width of said strap-like member disposed between said strap and the adjacent parts of the flap to retain said flap in the path of displacement of said container at the said opposite side of the band.

2,650,703

STEEL WOOL PACKET

Leif Richard Hagen, Oslo, Norway, assignor to Norsk Stalull A/S, Oslo, Norway, a Norwegian concern

Application September 30, 1949, Serial No. 118,905
In Norway March 10, 1948
1 Claim. (Cl. 206—59)



A metallic wool article comprising a continuous length of metallic wool tape formed into a plurality of spirally wound rolls which are closely disposed face to face to form a cylinder and each of which, with the exception of one end roll, is interconnected to an adjacent roll by the continuous tape which extends without slack from the exterior convolution of a roll to the innermost convolution of an adjacent roll.

2,650,704

APPARATUS FOR THE SELECTION OF SEEDS OR SIMILAR MATERIAL

Josef Musil, Vienna, Austria, assignor to Maschinenfabrik Heid Aktiengesellschaft, Vienna, Austria, an Austrian joint-stock company

Application February 21, 1950, Serial No. 145,345
In Austria February 19, 1949
14 Claims. (Cl. 209—95)



1. In an apparatus for the selection of seeds or similar material the combination comprising frame means, a drum mounted in the frame means for rotation in both directions and receiving the material at one end and discharging a part of said material at the other end, said drum having on its interior surface material selecting cells and including peripheral wall means having a plurality of pairs of radially spaced edges substantially overlapping in a direction tangential of the drum periphery and defining an aperture extending tangentially of the circumference of the drum and opening from the interior of the drum to the exterior thereof, and means for rotating said drum to discharge the material selected by said cells tangentially from said drum through said apertures to the exterior of the drum, the material not selected by said cells be-

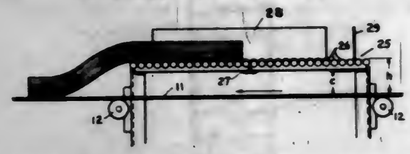
ing caused during rotation of the drum in said selecting direction to fill said apertures without being discharged through said apertures to the exterior of the drum, whereas rotation of the cylinder in the opposite of said direction will cause the material in the drum rapidly to flow out through said apertures to the exterior of the drum.

2,650,705

METHOD AND APPARATUS FOR HANDLING PAPER

Herbert T. Randall, Hamilton, Ohio, assignor to The Champion Paper and Fibre Company, Hamilton, Ohio, a corporation of Ohio

Application August 5, 1946, Serial No. 688,432
14 Claims. (Cl. 209—123)



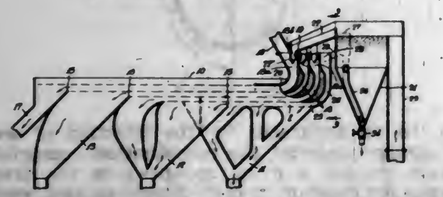
3. Method of handling paper in sheet form, in connection with a sorting operation, which comprises: inspecting and removing sheets successively from the top of a stack of sheets; disposing of the rejected sheets; forming the acceptable sheets into a pile; then, when the pile contains the desired number of sheets and is not over six inches in height, gradually accelerating the pile in a horizontal direction; permitting it to bend downward by gravity until it contacts and is reversely bent by, and is increasingly supported on until it is fully carried by, a surface moving in the direction of said initial acceleration; and transporting it on said moving surface to the location of the next stage in the handling process.

2,650,706

METHOD AND APPARATUS FOR SEPARATING SOLID PARTICLES

Jules Colin, Richard Burr, and André Gafanesch, Mulhouse, Haut-Rhin, France, assignors to Mines Domaniales de Potasse d'Alsace, Mulhouse, Haut-Rhin, France, a corporation of France

Application February 18, 1948, Serial No. 9,116
In France February 21, 1947
9 Claims. (Cl. 209—173)



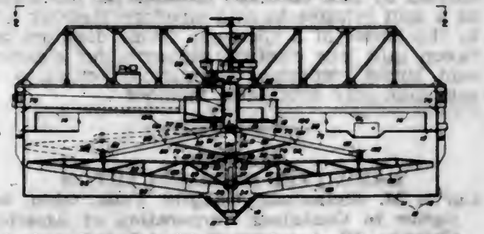
1. In the art of gravity separation of particles differing little in density, in which the particles are deposited upon a bath having specific gravity intermediate between the particles, in which fractions are passed off from different levels in the bath, and in which a screen of heavier particles across the lower part of the bath bars downward entrainment of lighter particles; that method in which the heavier or screen particles are admixed with the separating liquor and in which the liquor bearing such particles is permitted to settle to level below the bottom of the bath prior to its introduction into the bath for segregation into a heavier fraction at the bottom containing a preponderance of the heavier particles, and a lighter fraction thereabove, the damming of the lighter fraction for overflow thereof from above the top of the bath and in which such heavier fraction is introduced to the bath from near the bottom of the settled liquor upwardly to above the top of the bath, thence downwardly in a forwardly curved course for delivery horizontally into the bath in a layer near the bottom thereof to form the screen, and the lighter fraction is introduced from the overflow and distributed laterally across the tank and admitted in a plurality of downwardly thence forward curved courses into the tank in layers above the bottom layer, whereby each of the fractions of the separating liquor is delivered to the bath with a substantially invariant head.

2,650,707

SEDIMENTATION APPARATUS

Charles H. Scott, Westport, Conn., assignor to The Dorr Company, Stamford, Conn., a corporation of Delaware

Application November 23, 1951, Serial No. 258,660
11 Claims. (Cl. 210—55)



1. A sediment raking mechanism for employment in a settling tank having stationary means fixedly positioned with respect to the tank and functionable as means for supporting said mechanism, which said mechanism when in place and in operative position with respect to the tank comprises in combination and in operative relationship a pair of oppositely-disposed outwardly-extending rake arms turnable as a set about a vertically-extending axis; a vertically-extending rake-arm carrier mounted for turnable movement about said axis; lifting means deriving carrying support from said stationary means and having a member turnable about said axis, and in turn providing lifting and carrying support for and applied at the upper end portion of the rake-arm carrier whereby the latter serves as a turnable depending member functioning under tension and from the lower portion of which said rake arms are carried; a turntable construction having a base member deriving support from said stationary means anad a turntable mounted on said base member for turnable movement about said axis; motivating means for imparting said turnable movement to said turntable; a vertically-extending power transmission torque tube carried by, rigidly connected to, and extending downwardly from said turntable and also concentrically disposed with respect to said liftable rake-arm carrier; a circular guide sleeve functionally disposed between the upper portion of the torque tube and the upper portion of the liftable rake-arm carrier; a pair of oppositely-disposed outwardly-extending relatively stiff power transmission arms corresponding to and vertically-positioned with respect to the aforementioned rake arms, of which said power transmission arms each has a wide inner end portion provided by side members progressively approaching each other and connected to provide a small outer end portion, having intermediate cross

braces to afford lateral rigidity to said arms and leaving said widely spaced inner end portions for providing high hinge elements which when the arms are in place are operatively positioned with respect to high hinge pintle providing elements on and at the lower end of the torque tube; said high hinge elements of which the high pintle axis extends horizontally and which high hinge elements are provided on and at the lower end portion of the torque tube and serve to receive the wide horizontally spaced inner hinged end side members of the power transmission arms; and connecting means at the outer end of each power transmission arm by which it is so connected to its corresponding rake arm that there is permitted movement of the outer end of each power transmission arm relative to and along the rake arm to which it corresponds as the rake arms are raised as a set but so as to prevent lateral movement between the outer ends of each power transmission arm relative to the rake arm to which it is connected; said sediment raking mechanism being characterized in that each of said power transmission arms has an outlying hinge element disposed substantially midway between the wide inner end and the narrow outer end portion of said arm and providing an outlying pintle axis paralleling the aforementioned horizontally-extending pintle axis of the high hinge elements upon and by which the inner end of the corresponding power transmission arm is located; said sediment raking mechanism being further characterized in that the liftable rake-arm carrying shaft has low hinge providing elements carried on and at the lower portion of said shaft for providing a low horizontally-extending pintle axis directly underlying and paralleling the high pintle axis determined by the high hinge elements mounted on and turnable with the torque tube and also further characterized in that, for and corresponding to a particular power transmission arm, there is a set of relatively stiff and rigid stabilizing rods horizontally spaced apart, of which the inner ends provide low inner hinge elements having operative connection with the low hinge elements on the liftable rake-arm carrying shaft, while the outer end of said stabilizing rods are provided with hinge elements that are operatively connected to and pivotally mounted on the outlying hinge element located on said power transmission arm, the effective radial length of the distance between the high pintle axis and the outlying pintle axis on the power transmission arm being equal to the radial length of the stabilizing rod which extends from said outlying pintle axis to the low pintle axis provided by the low hinge elements that are on and connected to the liftable rake-arm carrying shaft and which directly underlie the high pintle axis of the high hinge elements that are connected to the lower portion of the turnably driven torque tube.

2,650,708

WASTE DISPOSING DEVICE

Orie C. Norton, Erie, Pa.

Application September 20, 1948, Serial No. 50,130
5 Claims. (Cl. 210—57)



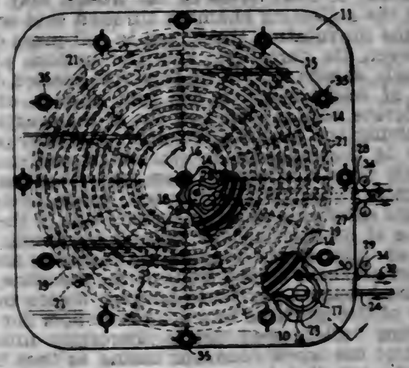
1. A waste disposal unit comprising a container, an outlet pipe extending outwardly from the lower portion of one side of said container, said outlet pipe having an inner open end in the lower side of said container, an angularly, downwardly extending nozzle disposed in the upper side of said outlet pipe and spaced a predetermined distance from the inner open end of said outlet pipe directed into said container through the inner open end of said outlet pipe, and means for connecting said nozzle to a source of fluid, the fluid from said nozzle defining a screen of fluid extending transversely of the inner open end of said outlet pipe and being spaced outwardly from the bottom thereof and inwardly from the sides thereof opposing the exit of large pieces of material through said outlet pipe while further agitating same in said container.

2,650,709

CONTINUOUS EXTRACORPOREAL DIALYZER

Stephan S. Rosenak and Abraham Saltzman, New York, N. Y.

Application August 6, 1948, Serial No. 42,756
9 Claims. (Cl. 210—23.5)



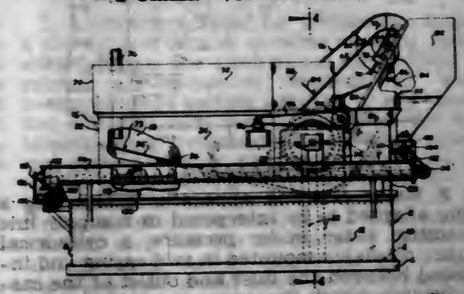
1. A continuous extracorporeal dialyzer, including two spaced plates, a relatively stiff unyielding spiral liquid-tight wall sealed edgewise between said plates and having spaced turns defining a spiral dialyzing compartment for conducting a wash liquid, an elongated tubular membrane extending spirally along said compartment for conducting the liquid to be dialized, and pipes for conducting blood to and from the ends of said tubular membrane.

2,650,710

MACHINE FOR REMOVING DEBRIS FROM SOLUTIONS

Ralph J. Stehling, Mequon, Wis., assignor to Chas. H. Stehling Company, Milwaukee, Wis., a corporation of Wisconsin

Application January 24, 1951, Serial No. 207,502
1 Claim. (Cl. 210—151)



In a machine for removing debris from liquid; means defining elongated superimposed tanks, the

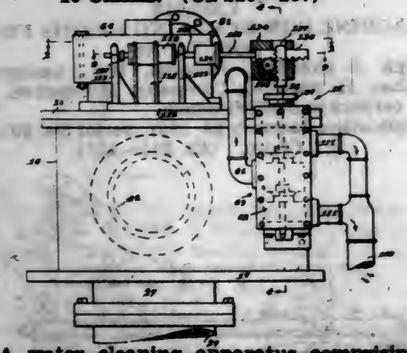
lower tank providing a collecting chamber for liquid from which debris has been removed, and the upper tank having a fixed perforate bottom wall sloping downwardly from its front and rear ends to define a perforate transverse trough near the rear of the machine, said upper tank providing a receiving and draining chamber separate from the collecting chamber, and all portions of its perforate bottom wall being spaced a substantial distance above the bottom of the lower tank so as to be above the normal level of debris-free liquid collected therein, whereby liquid may drain from debris-laden liquid fed into the front end portion of the upper tank and fall into the collecting chamber, while debris rolls downwardly and rearwardly along said perforate bottom wall and into said trough; a substantially cylindrical rotary screen in the receiving and draining chamber extending transversely thereacross directly over said trough with its periphery spaced a short distance above the bottom of the trough, one end of said screen being closed and its opposite end being in open communication with the collecting chamber so that liquid in the trough may drain into the collecting chamber through said screen; means for rotating the screen to roll-press debris between its periphery and the bottom of the trough; means for pushing the roll-pressed debris out of said trough up the rear portion of said perforate bottom wall and out of the rear of the receiving and draining chamber; a hopper on the rear of the machine to receive the roll-pressed debris thus discharged from the receiving and draining chamber; elongated screw conveyor means extending along one entire side of the machine at its exterior and including a casing having an inlet at the rear of the machine and an outlet adjacent to the front of the machine, said casing having a perforate bottom; means on the rear of the machine beneath the hopper for conducting roll-pressed debris therefrom into the inlet of the screw conveyor casing so that liquid will be expelled from debris acted upon by the screw conveyor means and will issue through the perforate bottom of its casing; and trough means on the side of the machine under said casing to conduct such expelled liquid into the collecting chamber.

2,650,711

WATER CLEANING APPARATUS

Laurence B. Gilcrest, Irondale, Ohio

Application June 27, 1951, Serial No. 233,863
10 Claims. (Cl. 210—167)



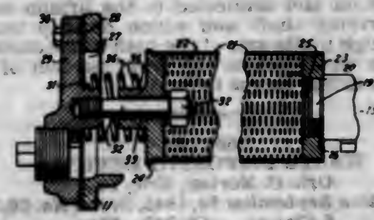
1. A water cleaning apparatus comprising a casing adapted to be interposed in a supply line containing water under pressure, a cylindrical strainer rotatably mounted in said casing and interposed between the inlet and outlet of the casing through which the water is adapted to pass inwardly between an inlet and an outlet of the casing for removing dirt and foreign matter therefrom, a backwash chamber disposed within the casing externally of the strainer, supporting means connected to the casing and backwash chamber and urging said backwash chamber out of engagement with the strainer, a first diaphragm unit mounted in and fixed to the casing including a diaphragm connected to said chamber and responsive to the pressure within the casing for urging and retaining the backwash chamber in engagement with a portion of the strainer and against the action of the supporting means, said backwash chamber having an open side engaging against the strainer through which a portion of the cleaned water backwashes outwardly through the strainer into said chamber for cleansing the strainer portion in registration with the backwash chamber, a conduit connected to the backwash chamber for carrying off the backwash liquid therefrom, a first branch conduit connected to said conduit and to the first diaphragm chamber, a second diaphragm chamber, a second branch conduit connecting the second diaphragm chamber to said conduit, a drainage conduit opening to the atmosphere and connected to said first mentioned conduit, a valve for closing the communication between the first mentioned conduit and drainage conduit, a second diaphragm actuated by the pressure in the second diaphragm chamber and forming a part of said chamber, an intermittent driving means connecting said second diaphragm to the strainer for intermittently turning the strainer in one direction when the second diaphragm is extended, spring means for moving the driving means in the opposite direction when the pressure is diminished in the second diaphragm chamber, and valve actuating means connecting said valve to the driving means and operative upon movement of the driving means by the second diaphragm for opening the valve to release the backwash liquid from said conduit and the first and second branch conduits, said valve actuating means operating to close the valve when the driving means is actuated by the spring means.

2,650,712

ENGINE FILTER

John C. Slemmeger, Dallas, Tex., assignor to The Continental Supply Company, Dallas, Tex., a corporation of Delaware

Application May 1, 1948, Serial No. 24,697, which is a division of application Serial No. 654,427, March 14, 1946. Divided and this application November 10, 1949, Serial No. 126,540
1 Claim. (Cl. 210—170)



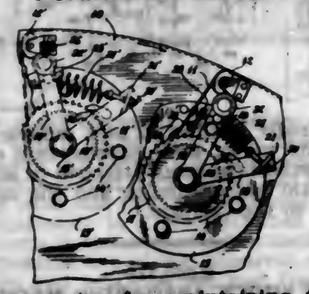
A lubricating oil screen for use in an engine crankcase on the intake of an engine oil pump having a short intake nipple directed toward one wall of the crankcase, said oil screen including an imperforate cover plate adapted to be secured to the crankcase wall, a bolt immovably secured to and rigidly extending from the plate, an elongate unitary foraminous screen having one end slidably mounted on the bolt, retaining means on the bolt within the screen limiting longitudinal movement of the screen on the bolt away from the plate, a coiled spring between the screen and the plate constantly urging the screen from the plate, the screen having at its opposite end a support adapted to engage the intake nipple, and axially alined bosses on the cover plate and the screen surrounding the bolt, the spring encompassing said bosses.

2,650,713

TENSIONING APPARATUS

George W. Nigh, Bayonne, N. J., assignor to Tide Water Associated Oil Company, Bayonne, N. J., a corporation of Delaware

Application March 1, 1950, Serial No. 146,957
8 Claims. (Cl. 210—190)



1. In apparatus for maintaining tension in a wire by means of a reel rigidly secured against unwinding but free to be rotated in a wire-tensioning direction, the improvement adapted to maintain an initial degree of tension in said wire comprising a driver, resilient means of predetermined loading characteristics adapted to couple said driver and said reel in force-transmitting relationship during a driving stroke and means to uncouple same during a return stroke, said driver being adapted for limited movement through successive driving strokes of equal length to apply force at each such stroke to said reel in a wire-tensioning direction through said resilient means, whereby said reel will be rotated during such driving strokes to restore tension if tension has been lowered in the wire below the initial degree but will not be rotated during such driving stroke if there has been no reduction of tension in the wire.

2,650,714

CURTAIN ROD STRUCTURE

Leonard C. Breese and Violet Stewart Breese, Burbank, Calif.

Application May 6, 1947, Serial No. 746,276
3 Claims. (Cl. 211—87)



3. A curtain rod structure comprising a pair of rod supporting brackets mounted at opposite sides of an area to be covered by a curtain, each of said brackets having a base portion and a plurality of rod-engaging elements disposed at opposite acute angles to the plane of the area to be covered, and a plurality of normally straight, resilient curtain rods each having end portions adapted to engage an opposed pair of said elements; each of said rods being of greater length than the distance between the elements with which it is associated whereby, incident to engagement with said elements when the base portions of said brackets are disposed in co-planar relationship, each of said rods is caused to assume a bowed form; the rod-engaging elements on each of said brackets being so disposed relative to each other that said bowed rods will be substantially uniformly spaced from each other throughout their length.

2,650,715

DRAPERY SHADE AND CURTAIN HARDWARE

Ida Lundstrom, St. Louis, Mo.

Application November 24, 1950, Serial No. 197,290
4 Claims. (Cl. 211—103)
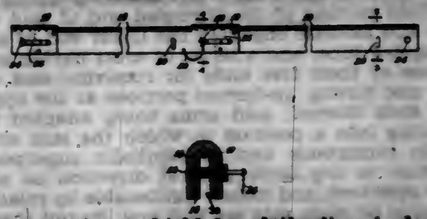


1. A pull cord operable mechanism of the character and for the purpose described, said mechanism including in combination: a pair of similar horizontally spaced carrier members each having a vertical body portion, and a top and a bottom rearwardly projecting flange portion integral with the body portion; horizontally spaced apertures formed in said top and bottom flanges for the reception of segments of said pull cord, two of the apertures in the top flange being in vertical alignment with the apertures in the bottom flange; a forwardly inclined reversely bent clamp portion formed on the free end of the bottom flange for the reception and retention of a felt pad; a horizontally disposed truss rod extending between said carriers; a transverse rearwardly projecting recess formed in the body portion of each carrier in a plane above the horizontal centerline thereof for the reception of one end of said truss rod; and means provided in the body portion of each carrier to receive fastening devices for mounting on said carriers conventional curtain rod supporting brackets whereby to maintain the ends of said truss rod in the recesses aforesaid of said carriers.

2,650,716

SECTIONAL SHIELD FOR CLOTHESLINES

Johann Klein, Brooklyn, N. Y.

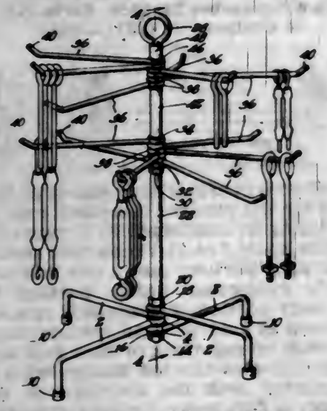
Application September 23, 1949, Serial No. 117,231
2 Claims. (Cl. 211—119.18)



1. A sectional shield for clothesline, including a plurality of shields capable of being mounted slidably upon the clothesline, each shield comprising an elongated member of inverted U-shaped cross section adapted to rest upon the line with the limbs depending therefrom, an interconnecting U-shaped member fixed upon the end portion of each elongated member and projecting longitudinally therefrom in effective position to receive the end of the next shield in the series, the projecting end of the interconnecting member and the end of the next shield fitting into the same having transverse holes registering when said shield and interconnecting mem-

ber are fitted together, and a transverse pin removably extending through the holes in said shield and interconnecting member to retain the same in assembled and connected relation upon said clothesline.

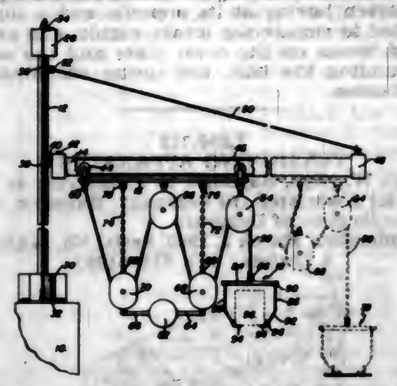
2,650,717
DISPLAY STAND
Charles O. Larson, Sterling, Ill.
Application October 5, 1948, Serial No. 53,866
2 Claims. (Cl. 211—178)



1. A display or supporting rack comprising a plurality of base members each having an angularly disposed foot at one end and an eye at the other end, a threaded rod having at one end a nut threading thereon, said nut including a portion larger than the eyes of said base members, the eyes of said base members lying in adjacent superimposed position upon said threaded rod and above said nut, said base members being adapted for pivoting into a position in which the said base members are substantially contiguous and with the feet in contact, means on said rod above said eyes to hold the same assembled thereto, said threaded rod having a portion projecting beyond said means, an elongated tube having its lower end telescoping upon said rod and upstanding therefrom, an elongated eye bolt having its lower end threaded and its upper end provided with an eye, the lower end of said eye bolt projecting into said tube, a nut engaging an intermediate portion of the threaded end of said eye bolt and likewise engaging the upper end of said elongated tube, and a series of arms having eyes at one of their free ends for receiving said eye bolt and having up-turned portions at the opposite ends thereof, said arms being adapted for pivoting into a position in which the said arms lie in contiguous and substantially superposed relation in the same general direction as said base members, and means tightenable by relative rotation between said eye bolt and the nut thereon for holding said arms in assembled relation on said eye bolt.

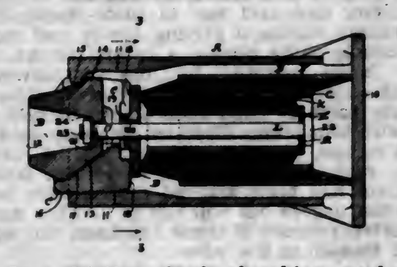
2,650,718
BUILDING BLOCK HANDLING CRANE
Andrew Palmer, Quakertown, Pa.
Application January 17, 1950, Serial No. 138,967
8 Claims. (Cl. 212—56)

6. A crane comprising a standard, a laterally extending track mounted on said standard, a carriage mounted on said track for movement therealong, a grapple, support means supporting said grapple from said carriage, said support means including counterbalance mechanism for said grapple, said support mechanism including a support pulley secured to one end of said carriage, a cable entrained over said support pulley



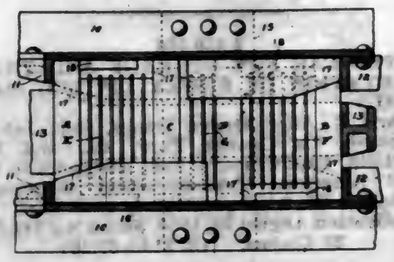
and terminally secured to said grapple and to the opposite end of said carriage, said counterbalance mechanism being attached to said cable between said support pulley and the cable and connected to the carriage.

2,650,719
FRICTION SHOCK ABSORBING MECHANISM FOR RAILWAY CARS
George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application July 31, 1950, Serial No. 175,262
3 Claims. (Cl. 213—34)



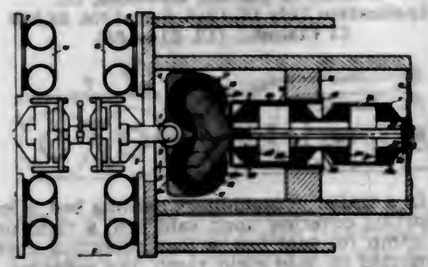
1. In a friction shock absorbing mechanism, the combination with a friction casing open at one end and closed at the other end by a transverse wall, said casing having interior friction surfaces at said open end; of friction shoes telescoped within said open end of the casing in sliding engagement with the friction surfaces thereof; a wedge in wedging engagement with the shoes; a follower bearing on the inner ends of said shoes; inner, outer, and intermediate, lengthwise extending, tubular members within the casing; a rubber sleeve between said inner and intermediate tubular members, having its opposite sides vulcanized to said inner and intermediate members, respectively; a second rubber sleeve between said intermediate and outer tubular members having its opposite sides vulcanized to said intermediate and outer members, respectively, said intermediate tubular member bearing at its front end on said follower, said outer tubular member bearing at its rear end on said transverse wall of the casing, said inner tubular member having its front end spaced from said follower; and means operatively connecting the rear end of said inner member to the wedge for transmitting pressure from the wedge to the shoes.

2,650,720
SHOCK ABSORBING MECHANISM FOR RAILWAY DRAFT RIGGINGS
Vernon S. Danielson, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application May 17, 1952, Serial No. 288,399
11 Claims. (Cl. 213—45)



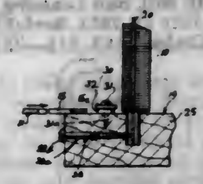
1. In a shock absorbing mechanism, the combination with a set of more than two cushioning elements; of means for compressing all of said elements of said set in series; and means cooperating with said first named means operative after compression to a predetermined extent of said elements in series by said first named means for compressing two of said elements of said set in parallel and removing the load from the remaining element.

2,650,721
SHOCK ABSORBER FOR RAILWAY DRAFT RIGGINGS
Pierre Marcel Bourdon, Paris, France, assignor to Manufacture de Caoutchouc Michelin (Puiseux, Boulanger & Cie), Clermont-Ferrand, France
Application November 22, 1947, Serial No. 787,554
In France December 12, 1946
5 Claims. (Cl. 213—45)



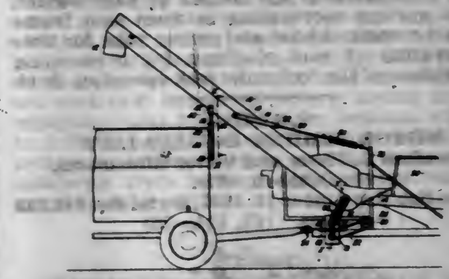
1. A shock absorber for railway draft rigging comprising a yoke member to be connected with a coupler, a cross head member, resilient rubbery means interposed between and connecting said cross head member to said yoke member, a sleeve-like draft member fixed to said cross head member and extending therefrom away from said yoke member and having a shoulder adjacent to its outer end, said shoulder having a surface thereon facing toward said cross head member to engage a structural element of a railway vehicle, a stem fixed to said cross head member and extending therefrom lengthwise within and beyond said outer end of said draft member, a retaining member on said stem and movable lengthwise thereof, and a dampener extending lengthwise of said stem between said cross head member and said retaining member and urging them apart, said dampener including at least two substantially concentric, tubular sleeves in overlapping relation and a ring of rubbery material bonded to and interposed between said sleeves to connect them for resiliently opposed relative endwise movement, one of said sleeves being in engagement with said yoke member and the other in engagement with said retaining member.

2,650,722
DEVICE FOR DISPENSING STACKED RETAINING RINGS
Vincent A. Stabile, New York, N. Y.
Application January 21, 1952, Serial No. 267,479
8 Claims. (Cl. 214—8.5)



3. A dispenser for storing retaining rings and for permitting one-by-one withdrawal of said rings, each said retaining ring being substantially annular in shape with an interrupted portion to define a pair of jaws, said dispenser comprising a base which has a working surface which has a hole, an elongated bar which has a leg extension of decreased width and defining a shoulder at the junction of said bar and said leg, said bar being mounted on said base with said leg positioned within said hole, said shoulder being spaced from said working surface by a distance at least equal to the thickness of a ring, said bar being adapted to receive a plurality of said rings in stacked registration with said bar extending slidably through the central openings thereof and with the jaw openings thereof positioned opposite one face of said bar and with the stack of rings resting upon said working surface.

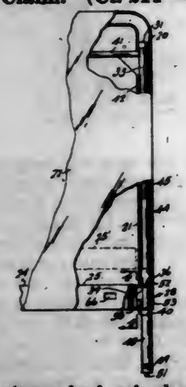
2,650,723
MOUNTING UNIT FOR CORN PICKER ELEVATORS
Rudolph Sammer, Harrisonville, Mo., assignor of one-half to Thurman Johnson, Harrisonville, Mo., and one-half to W. A. Harrison
Application October 24, 1949, Serial No. 123,110
4 Claims. (Cl. 214—42)



1. In a farm implement assembly having a harvester, a mobile receiver pivotally coupled with said harvester for towing thereby, and an elongated conveyor for moving harvested material from said harvester to said receiver, the improvement of which comprises structure for maintaining the conveyor in a position for discharging said material into the receiver during turning movement of the harvester and the towed receiver, said structure including a plate on the

conveyor and on the harvester respectively, said plates being relatively superimposed and relatively rotatable on a substantially vertical axis; and a conveyor supporting cradle mounted on the receiver for free, unrestricted, pivotal movement on a substantially vertical axis, said cradle receiving the conveyor for movement relative thereto, whereby the conveyor is swung on said axes as the harvester turns relative to the receiver.

2,650,724
ELEVATOR FOR A PORTION OF A VEHICLE BED
Robert O. Bill, San Leandro, Calif.
Application July 13, 1951, Serial No. 236,631
1 Claim. (Cl. 214—75)



A vehicle having a bed, a body including structural frame work, side members for supporting said bed and said body, a combined bed section and elevator platform formed from the rearward portion of said bed between said side members, elevating and lowering means cooperative between said platform and said side members and limited to the space occupied by said structural frame work to maintain the inside of the vehicle including bed and body free of obstructions; said elevating and lowering means comprising a tubular socket fixed in each side member and depending from the under side thereof a hydraulic jack for each socket and having a cylinder seated in its socket and each having a plunger cooperating with its frame for elevating and lowering said platform at will, a combined base and spring yoke fixed to the bottom of each socket, tension springs cooperating between said frame and said combined base and spring yoke for urging lowering of said platform for overcoming sluggishness of the hydraulic jack operating fluid.

2,650,725
MOTOR VEHICLE INVALID LIFT
Theodore R. Heyer and Victor Hildemann, Oshkosh, Wis.
Application September 12, 1951, Serial No. 246,253
9 Claims. (Cl. 214—75)



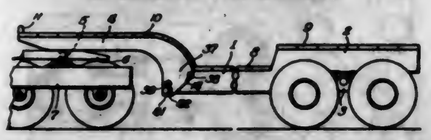
1. In combination with a motor vehicle top, a support detachably mounted in a horizontal plane thereon, a sleeve mounted on said support for movement longitudinally of said vehicle top, a boom telescopically and revolubly associated with said sleeve for projection and retraction laterally of said vehicle top in a horizontal plane and for flat collapse on the vehicle top, and a lift arm movably carried directly by the outer end of said boom.

2,650,726
HOPPER CAR FOR STORAGE AND TRANSPORTATION OF FINELY DIVIDED MATERIALS
Edmund R. Aller, Ogden Dunes, Ind., John M. Gleason, La Grange Park, Ill., and Louis Matolin, East Chicago, Ind., assignors to General American Transportation Corporation, Chicago, Ill., a corporation of New York
Application August 22, 1950, Serial No. 180,882
22 Claims. (Cl. 214—83.28)



1. In combination, a plurality of hoppers for the storage of finely divided material and having discharge openings, said hoppers being arranged in a row, a suction tube extending beneath said row of hoppers and mounted for rotation about its own longitudinal axis, said tube having angularly displaced inlet ports each adapted to be rotated into communication with the discharge opening of one of said hoppers, and means for withdrawing said material by suction from said tube.

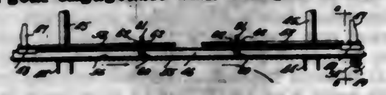
2,650,727
SWINGABLE TRAILER RAMP
William E. Martin, Kewanee, Ill.
Application July 15, 1948, Serial No. 38,839
13 Claims. (Cl. 214—85)



1. In a trailer, a machinery hauling bed, a load supporting covering upon said bed, a rigid unitary ramp for said bed, a load suporting covering carried by said rigid ramp, the covering on said ramp being substantially equal in width to the covering upon said bed to provide a wheel supporting roadway for wheeled vehicles, and a single pivotal member on said bed to suport the unitary ramp for bodily swinging the entire ramp between a raised traveling position and machinery loading position about a fixed axis on said bed and to dispose said coverings in contiguous relation with respect to each other.

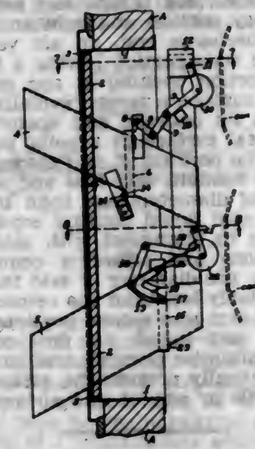
2,650,728
AUTOMOBILE STORAGE APPARATUS
George G. Goodwyn, Dallas, Tex.
Application January 26, 1950, Serial No. 140,653
4 Claims. (Cl. 214—85)

1. In an elevator for an automobile storage building having opposed tiers of storage stalls defining an intervening alley, a car loading and unloading apparatus for said elevator comprising tracks in said elevator alignable with analogous tracks in selected stalls, a bar disposed for longitudinal movement of said elevator, a hinged bumper stop lug displaceably arranged adjacent each end of the bar adapted to engage a bumper of an automobile on said elevator, a gear rack affixed longitudinally to the underside of said bar, a gear engageable with said gear rack, motor



means for driving said gear to move said bar longitudinally in said elevator, a screw rod attached to each of said bumper stop lugs and extending longitudinally of said bar towards its midsection, a peripherally toothed gear having an internal worm rotatable on said screw rod and motor means for operating said gear to shift said bumper stop lug on said bar.

2,650,729
DUAL LOAD AND UNLOAD CHUTE DEVICE
Richard T. MacKay, Hollis, N. Y., assignor to The Peelle Company, Brooklyn, N. Y., a corporation of New York
Application August 25, 1951, Serial No. 243,717
4 Claims. (Cl. 214—85)



1. In a dual load and unload chute device, a pair of oppositely-sloping chutes positioned within a common frame with one end of each of said chutes extending into an adjacent elevator shaft and with the opposite ends of said chutes extending into a room area, a hinged flap fire stop located in each of the chutes, a linkage connected with and adapted to open each of the flaps, with each of the linkages being operable by means of a respective retiring cam located on and carried by an elevator car, and with each of the linkages being mounted on the frame adjacent its respective chute.

2,650,730
LIFTING TRAILER
Leon M. Rohm, Miami, Fla.
Application March 10, 1953, Serial No. 275,713
5 Claims. (Cl. 214—506)

1. A lifting trailer comprising in combination a loading frame including a pair of struts with cross-bars transversely disposed thereon, one of said cross-bars having ends extended transversely beyond the struts with bearings thereon, a pair of plates of geometrical form each arranged to hold one of said bearings at its rear end, an axle bearing at the front end of each of the plates, an eccentric axle with its end portions journalled in said last mentioned bearings and adapted for movement of the eccentric portion of the axle from an approximate horizontal plane downwardly towards a vertical plane, a manipulating bar resting on and attached to the rear portion of said plates and adapted to tilt with the plates on said axle bearings from a hori-



zontal plane to an angular one above the frame, and thereby lowering said frame with a load thereon to a position close to the ground from one above the journal portions of said axle in which it extends rearwardly at a downward incline, wheels on said journal portions for carrying the axle, and means for coupling the frame to a pulling vehicle, and a link member connecting the extended cross-bar to the eccentric portion of the axle for facilitating the raising and lowering movements of the frame by said manipulating bar.

2,650,731
TRANSPORTATION SYSTEM AND EQUIPMENT
William F. Adler, Pittsburgh, Pa.
Application April 8, 1947, Serial No. 740,062
1 Claim. (Cl. 214—515)

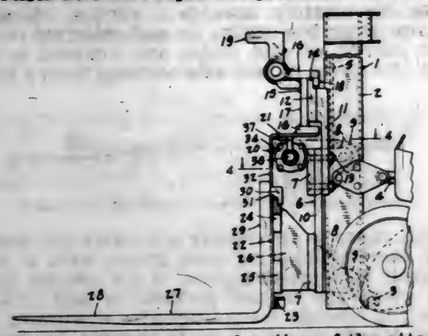


A baggage cart comprising a wheeled carriage having a plurality of generally horizontal trackways extending transversely of said cart, a plurality of platforms comprising collectively the deck of said cart, rollers on each of said platforms engaging one of said trackways, a transverse guide rail extending beyond and intermediate said rollers and depending from said platform, and generally horizontal rollers mounted in pairs on each side of said carriage, said rail and said horizontal rollers having bevelled engaging faces in interlocking relation adapted to drift the platforms entering said trackways to centered position therein and to restrain said platforms from vertical displacement with respect to said carriage.

2,650,732
COMBINATION FORK AND FINGER LIFT ATTACHMENT
Donald E. Hartquist, Kankakee, Ill., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application August 30, 1950, Serial No. 182,217
8 Claims. (Cl. 214—630)

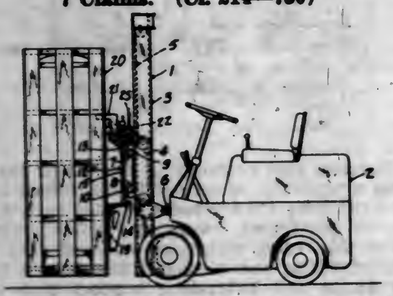
1. In a combination fork and finger attachment adapted to be employed with the elevator mast of an industrial lift truck, a support arranged on said mast for vertical movement by

the lift truck elevator mechanism, a plurality of generally short narrow fingers pivoted on said support for movement of all or some of the fingers toward the truck depending upon the container to be lifted and projecting outwardly only slightly beyond the vertical plane of the support for insertion into a component part of a container



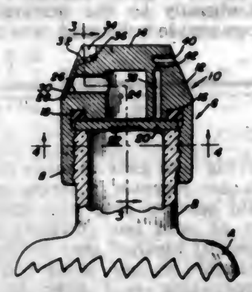
to lift the container upon elevation of the attachment, and a pair of forks mounted on said support beneath the fingers and projecting forwardly for lifting engagement with a pallet and a load disposed thereon, said forks being readily removable to prevent interference with the operation of said fingers.

2,650,733
SIDE SHIFT FOR CRATE LIFTING ATTACHMENT
Albert V. Blatz, Thiensville, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application August 19, 1950, Serial No. 180,385
7 Claims. (Cl. 214—730)



1. The combination with an industrial lift truck having a mast, elevator means mounted in said mast, and rail means carried by said elevator means for vertical movement therewith, of a support mounted on said rail means and movable horizontally therealong laterally of said truck, a row of forwardly projecting finger members mounted on said support for insertion into the interspaces of a crate to lift the same upon elevation of said rail means and support by said elevator means, spring means biasing said fingers forwardly with the finger members engaging the slats of the crate automatically moving rearwardly against the tension of said spring means and the remaining finger members being free to pass the slats into the interstices of the crate, and a hydraulic cylinder and piston operably connected with said support to shift said support and fingers laterally of said truck, said cylinder and piston being disposed longitudinally of said rail means and closely adjacent thereto to minimize binding torque between said support and rail means.

2,650,734
COMBINATION BOTTLE CAP AND POURER
Frank A. Todd, McKeesport, Pa.
Application June 27, 1951, Serial No. 233,847
5 Claims. (Cl. 215—40)



1. A combined bottle cap and pourer comprising an integral body portion having a circular peripheral surface, a closed top surface, a flat annular bottom surface and a skirt integral with said body portion and depending below said bottom surface for removable attachment to a bottle neck, a liquid pouring conduit through said body portion having a discharge end opening through and substantially flush with said peripheral surface and an intake end opening through said bottom surface, said intake end being coaxial with the body portion and substantially larger than said discharge end, an air vent conduit through said body portion having a first axially extending portion opening at one end through said bottom surface, a second radially extending portion with its outward end opening through said peripheral surface at a point substantially opposite to the position of said discharge end of said pouring conduit, said first and second portions being of diameters less than the smallest diameter of said liquid pouring conduit, and a third portion in alignment with said first and second portions and affording communication therebetween, the diameter of said third portion being appreciably less than the respective diameters of said first and second portions and constituting an anti-splash air flow constriction, whereby to minimize clogging and gurgling, and serving to virtually prevent the escape of liquid from the bottle by way of said air vent conduit.

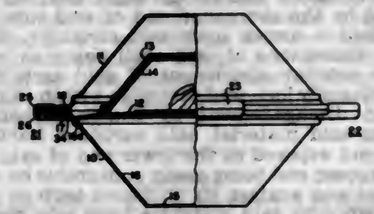
2,650,735
SPREADER TOOL WITH GROOVED NOSE ELEMENTS
Robert L. Redmond, Detroit, Mich., assignor to Automotive Rubber Company, Incorporated, Detroit, Mich., a corporation of Michigan
Application June 16, 1950, Serial No. 168,523
1 Claim. (Cl. 218—25)



A non-cutting deforming tool for soft-coated insulating grommets having coated retaining ears to be moved over the margins of a retaining aperture, said tool being of the type

having lever arms pivoted together such that movement of one pair of ends toward each other will spread the other ends open, wherein said other ends constitute nose elements symmetrical as to a bisecting plane containing the axis of pivot formed to lie, when in closed position, with flat back portions abutting each other and with opposite outer side faces tapering in one transverse dimension from the distal nose end to a greater width inwardly from said end toward the pivot, a narrowed portion inwardly of said tapered portion reduced to a neck smaller than the distal nose end, and each of said nose elements terminating rearwardly of the neck in an outwardly projecting shoulder on each arm substantially normal to the bisecting plane containing the axis of the pivot when said flat back portions abut, each of said tapered outer side faces of said nose elements being grooved longitudinally with a single groove slightly narrower than the width of the nose elements and disposed centrally thereof and extending from the distal end to the narrowed portion, wherein the respective bases of said grooves are divergent from the distal end of said nose elements when the latter are in closed position.

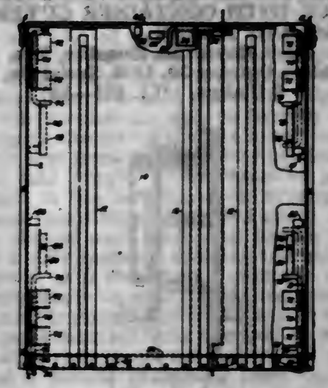
2,650,736
POPCORN SERVICE
Oliver B. Curry, Wichita, Kans.
Application January 29, 1949, Serial No. 73,461
4 Claims. (Cl. 220—4)



4. A corn popper comprising, a pair of metallic pans adapted to fit together with one inverted upon the other with their rims in registering relation, said pans being substantially identical in shape and size and being of truncated cone shape, said pans having outwardly extending flat rim portions of a flange nature which fit together, and a pair of handles rigidly attached to the rim portion of each pan in opposed relation and having portions extending upwardly beyond the rim portions, said upwardly extending portions of the handles having their opposed inner faces spaced apart so that the rim portion of each pan is engaged by the handles of the other when the pans are placed together with one inverted upon the other with the handles of one displaced from those of the other.

2,650,737
KNOCKDOWN SHIPPING CONTAINER
Wallace T. Geyer, Berwick, Reuben H. Learn, Bloomsburg, and Leonard W. Suit, Berwick, Pa., assignors to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application December 29, 1949, Serial No. 135,686
4 Claims. (Cl. 220—4)

1. A knockdown container comprising, side walls and end walls, sliding bolts located adjacent the vertical edges of said walls and slidable vertically to removably lock said walls together, a roof resting on said walls and formed with downturned flanges overlapping the walls, sliding bolts located adjacent the upper edges of said walls and horizontally slidable to removably lock said roof and walls together, a base fitting within the walls adjacent the lower edges thereof, said base



and walls having interengaging flanges supporting the base on the walls and preventing spreading of the walls and being held in position by certain of said vertically slidable bolts engaging the base to prevent upward movement thereof, and means engaging certain of said bolts to prevent vertical sliding movement thereof when in locked position.

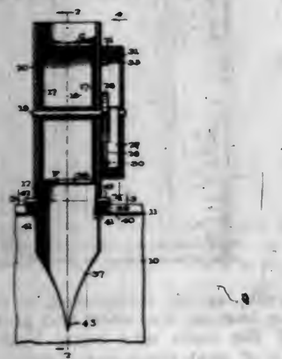
2,650,738
FLOATING ROOF
Reign C. Ulm, Schererville, Ind., assignor to Graver Tank & Mfg. Co., Inc., East Chicago, Ind., a corporation of Delaware
Application November 12, 1952, Serial No. 319,806
6 Claims. (Cl. 220—26)



6. A seal mechanism for a floating roof tank, comprising a floating roof, a seal shoe surrounding the floating roof and radially spaced therefrom and a plurality of supporting arms for the seal shoe, distributed around the floating roof in circumferentially spaced relation and extending upwards and outwards between the floating roof and the seal shoe; each of said arms comprising a lower portion, pivot means thereon to connect it with the floating roof, an upper portion, pivot means thereon to connect it with the seal shoe, the upper and lower portions having telescopical-

ly sliding relation with one another, and a compression coilspring coaxial with said arm and resiliently spreading said upper and lower portions apart.

2,650,739
VOLUMETRIC MEASURING AND DISPENSING DEVICE WITH CONTAINER CUTTING AND ATTACHING MEANS
Ira S. Boydstun, Houston, Tex.
Application October 30, 1950, Serial No. 192,999
3 Claims. (Cl. 222—83)



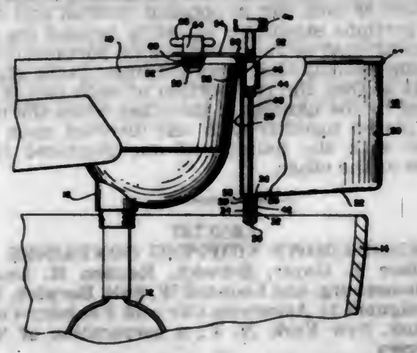
1. A device for use in conjunction with a container for dispensing therefrom fixed volumes of dry material in the form of discrete particles, which comprises a hollow cylindric rotor divided on an axial plane into two equal measuring chambers, each chamber having an opening for filling and emptying, the two such openings being diametrically opposite; a housing fitted snugly around the rotor while yet free enough to permit easy movement of rotor in relation to housing; openings in diametrically opposite sides of the housing coinciding with the openings in the rotor, one such opening serving as a discharge spout and the other such opening serving as a filling throat; a shaft mounted axially of the cylindric rotor and fastened thereto and journaled in the ends of the rotor housing to maintain the rotor concentric therein; a ratchet wheel mounted on said shaft and fastened thereto; a weight hanging loosely pendent from the said shaft adjacent to the ratchet wheel and carrying a pawl engaging the teeth of said ratchet wheel; a stop located on the housing immediately alongside the position taken by the weight when the dispensing device is in an upright position, and on that side of the weight that will prevent motion of the weight in the direction that would cause the pawl to engage the teeth of the ratchet wheel; a second stop located on the housing to permit the weight to move 180° around the shaft from its position against the first-mentioned stop, and to prevent its moving substantially more than 180°; a tubular metallic element extending from the filling throat of the rotor housing, having its remote end cut off at an angle to the longitudinal axis thereof, to form a sharp point at the extremity thereof and cutting edges along the remainder of the cut; a shoulder at the filling-throat end of the rotor housing, adapted to permit seating of the said housing on the flat top of a container; a retractable latch adjacent the said shoulder, to engage the inner face of a container top when the said shoulder is seated on the outer face of said container top, whereby the rotor housing is made fast to the container and upon retraction of said latch is made removable therefrom.

2,650,740
HOLDER FOR CONTAINER OF PULVERANT MATERIAL WITH MEANS TO PUNCTURE SAID CONTAINER AND DISPENSE SAID MATERIAL
Arthur Hammerstein, Roselle, Ill.
Application January 14, 1949, Serial No. 71,012
6 Claims. (Cl. 222—88)



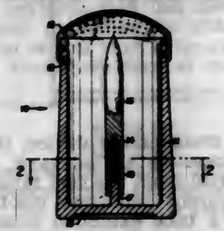
6. In a dispenser, a shell closed at its upper end and open at its lower end, a dispensing tube extending through said closed end and into said shell and having a sharpened and slotted lower end, means associated with said dispensing tube for controlling the flow of material therefrom and adapted to minimize the exposure of said material to the atmosphere, a cartridge received in said shell through the open end thereof and having in the end nearest the closed end of the shell an opening receiving said dispensing tube, said cartridge having a frangible upper end adjacent the closed end of the shell adapted to be pierced by the sharpened end of said tube when said shell is drawn upon said cartridge, the interior dimensions of said shell being so related to the exterior dimensions of said cartridge as to frictionally lock said cartridge within said shell against disengagement by shaking when dispensing said material, said cartridge having its lower end exposed at the lower end of said shell, said exposed end being easily rupturable by pressing said end against an anchored barb to pierce it in removing said cartridge from said shell.

2,650,741
OIL DROPPER WITH BRACKET FOR ATTACHMENT TO FOOD MIXERS
Walter Van Guilder, River Forest, Ill., assignor to General Mills, Inc., a corporation of Delaware
Application January 27, 1950, Serial No. 140,776
10 Claims. (Cl. 222—181)



1. An oil dropper comprising a container having a bottom with a discharge opening therein, a supporting bracket fastened to the container and having a first integral portion extending outside the container and providing means for attachment to a food mixer to support the container thereon, a second integral portion of the bracket extending inside the container above said opening and having bearing means aligned with the opening, and a control member mounted and supported solely on said bearing means, the control member having a valve cooperating with the opening to regulate the flow of liquid from the container.

2,650,742
DISPENSER FOR GRANULAR MATERIALS
Charles B. Overbaugh, Denver, Colo.
Application May 22, 1950, Serial No. 163,514
6 Claims. (Cl. 222—190)



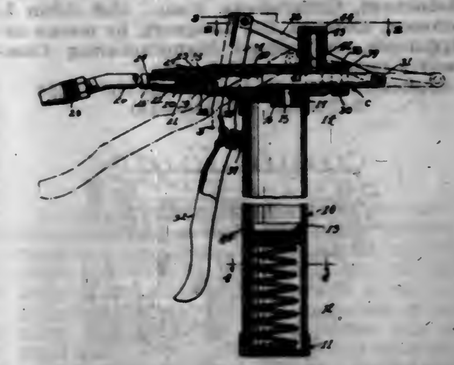
1. A dispenser for hygroscopic granular material having a container with a dispensing top thereon, comprising, in combination, a generally cylindrical pin upstanding from the bottom and centrally of the container and having a pointed top, and a generally cylindrical member composed of absorbent material and having a central, cylindrical cavity whereby the member is adapted to selectively slidingly encase and be uprightly supported by, and slidingly removed from said pin, said member being substantially the length of said container.

2,650,743
MORTAR APPLICATOR HAVING A FLEXIBLE DISPENSING TUBE
Earle N. Floyd, Mississippi City, Miss.
Application May 27, 1949, Serial No. 95,763
2 Claims. (Cl. 222—310)



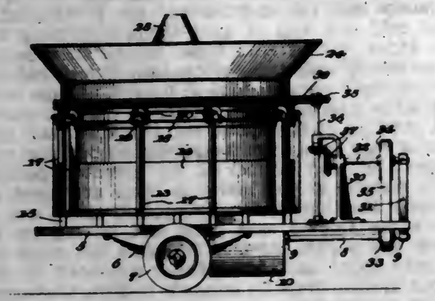
1. A portable mortar applicator comprising an upstanding rigid hopper having a cylindrical portion on the lower end, a bead surrounding said portion adjacent the free end of the latter, means on the upper end of said hopper for dependingly supporting the same from a hand of a user, a hook projecting exteriorly of said hopper above and spaced from the lower end thereof, a tube fabricated of flexible material positioned below said hopper and having the portion adjacent one end surroundingly engaging said bead and embracingly secured to the cylindrical portion of said hopper, a rigid spout positioned below and having one end in alignment with the other end of said tube, a second bead surrounding said spout adjacent said one end thereof, the portion adjacent said one end of said spout extending into the other end of said tube, means surrounding a portion of said tube below said spout bead and embracingly secured to said tube, said tube being bendable intermediate its ends to thereby permit the shifting of the spout and the lower end portion of said tube from its depending position with respect to said hopper to an elevated position with respect to the latter, a lever arranged exteriorly and longitudinally of said spout and on the same side of said hook and having on the lower end a gate member bridging the other end of said spout, said lever being mounted on said spout intermediate its ends for rocking movement about an axis transverse of said spout to thereby shift the gate member into and out of bridging relation with respect to the other end of said spout, and a handle projecting from the upper end of said lever for effecting the rocking movement of the latter, said handle being supported in said hook when said spout and lower end portion of said flexible tube have been shifted to the elevated position with respect to said hopper.

2,650,744
GREASE GUN
Ole A. Dirksen, Spencer, Iowa
Application February 15, 1949, Serial No. 76,569
1 Claim. (Cl. 222—383)



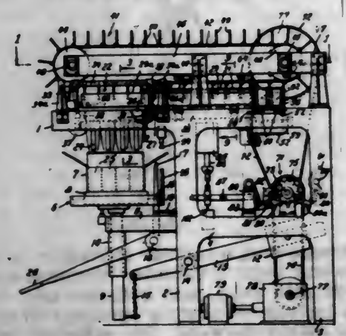
In a grease gun, a tubular container having removable end caps, a cylinder mounted crosswise of one of said caps, said cylinder and the said one cap having registering openings to establish communication between the cylinder and said container, a piston slidable inwardly of one end of said cylinder, a valved outlet at the opposite end of said cylinder, a hand lever having a bifurcated end portion straddled over the said opposite end of said cylinder, a pivot element for said lever passing through the lower side of said cylinder and the lever adjacent to the inner end of the furcation, a pivot element passing through the outer end of the furcation, links extending from opposite ends of the latter pivot element beyond the said one end of said cylinder, angular portions bent inwardly from the free ends of said links, and a pivot element carried by the outer end of said piston and connecting the angular portions of said links.

2,650,745
FEEDER FOR FODDER CUTTERS
Walter H. Oberwortman, Lamar, Colo., assignor to W. H. O. Alfalfa Milling Company, Lamar, Colo.
Application June 7, 1949, Serial No. 97,695
7 Claims. (Cl. 222—410)



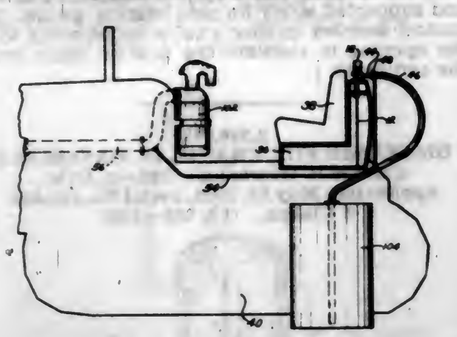
1. A feeder for fodder comprising a hopper having a discharge opening in the bottom, an imperforate cylindrical open ended drum, supporting means for revolubly holding the drum suspended loosely within and projecting vertically above the hopper, parallel fodder engaging means extending vertically on the inner surface of the drum and means for rotating the drum.

2,650,746
BOTTLE PACKING MACHINE WITH FLIGHT CONVEYER FOR RECEIVING SUCCESSIVE ROWS OF ARTICLES
Arthur E. Rideout, Chicago, Ill., Kaye B. Holstebroe, Gildersleeve, Conn., and Albin L. Johnson, Chicago, Ill., assignors, by mesne assignments, to Emhart Manufacturing Company, a corporation of Delaware
Application July 31, 1948, Serial No. 41,754
5 Claims. (Cl. 226—14)



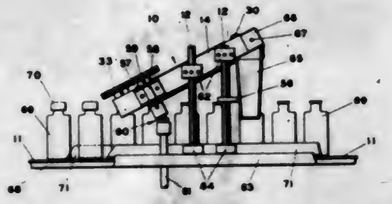
1. In an article packing machine, a load-forming enclosure, a case support therebeneath, an article support at one side, guides for maintaining articles on said article support in a plurality of rows lengthwise of said support, a flight conveyer arranged above said article support and load-forming enclosure, said conveyer having a series of spaced flights extending crosswise of said article support and engaging the articles thereon to maintain them in crosswise rows, means for feeding successive rows of articles between said flights, means for successively advancing said flight conveyer until a full charge is contained in said load-forming enclosure, and means for causing said charge to drop into a case on said case support.

2,650,747
FUEL TRANSFERRING APPARATUS
Elmer W. Rinne, Steinauer, Nebr.
Application September 16, 1950, Serial No. 185,313
3 Claims. (Cl. 226—116)



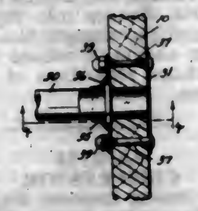
1. In a fuel transferring device, the combination which comprises a fuel tank, and a hose adapted to extend from the fuel tank to a supply tank, a transparent container positioned above the fuel tank, a tube extended from the transparent container into the fuel tank, the end of said tube positioned in the fuel tank having perforations therein and the upper end thereof having an outlet opening of reduced diameter, a float positioned in said tube for closing said outlet opening when fuel in the tank reaches a predetermined level, a vacuum connection from said transparent container to the said intake manifold of the engine, and means in said transparent container for closing the vacuum connection upon failure of said float in the tube in the fuel tank to close the connection.

2,650,748
CAP LIFTING MACHINE
Eldred C. Bennett and Charles Powell, Detroit, Mich., assignors to Sterling Drug Inc., New York, N. Y., a corporation of Delaware
Application May 19, 1947, Serial No. 748,990
2 Claims. (Cl. 226—129)



1. In a device for removing caps from bottles moving in single file, the combination comprising: an elongated base plate; a pair of U-shaped channel members affixed on the opposite longitudinal edges of said base plate with the open sides of said U-sections respectively facing each other; a pair of pulleys within each of said U-shaped channel members arranged in a common plane parallel to said base plate and a belt around each of said pairs of pulleys, and each of said pulleys so positioned with respect to the free edges of the flanges of said U-shaped members that said belts will each extend slightly beyond said respective free edges; means rendering one of said U-shaped channel members adjustable toward and away from the other U-shaped member; gear means driving said pulleys so that adjacent courses of said belts travel in a common direction and at the same speed with respect to each other; means adaptable for mounting said device adjacent said row of bottles and for supporting same directly over said bottles and at a substantial angle in a vertical plane with respect to the horizontal one end of said device being positioned adjacent the upper ends of said bottles and the other end of said device being positioned substantially higher than said one end and one of said pulleys within each U-shaped channel member being positioned adjacent said other end of said device; said base plate terminating at said other end of said device at a point intermediate the centerward half of said last named pulleys and a chute positioned underneath and between said last named pulleys for catching and delivering to other means caps reaching the end of said belts and dropping between said U-shaped channel members.

2,650,749
LADDER
Roy O. Balogh, Cleveland, Ohio, assignor, by mesne assignments, to McCabe-Powers Auto Body Co., St. Louis, Mo., a corporation of Missouri
Application March 2, 1950, Serial No. 147,274
2 Claims. (Cl. 228—58)



1. In a ladder, a rail having a plurality of spaced apertures extending therethrough, a rung mounted at its end in and extending lengthwise through each of said apertures, said rung having a pin extending diametrally therethrough and projecting therefrom at its opposite ends for engagement against the inwardly presented surface of the rail, a collar disposed concentrically upon the end of the rung and having a diametrally enlarged flat peripheral flange for engagement against the inner surface of the rail, said collar being provided, in the region of its juncture with its flange, with diametrally opposed radially extending recesses for fitting snugly around the projecting end of the pin, and means for drawing the collar tightly against the rail, whereby to secure the pin within the recesses and hold it between the inner portions of the recesses and the inner face of the rail so that the rung will be held securely and rigidly against movement axially inwardly or outwardly through the aperture in which its end is seated or rotationally with respect to said aperture.

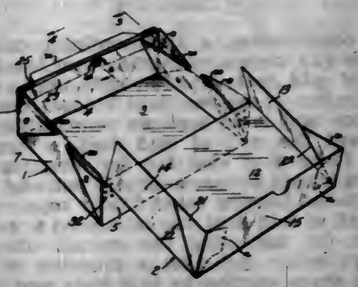
2,650,750
HYDRAULIC HOIST FOR LADDERS
Keith E. Chesney and Mertie E. Chesney, Fruitland, Idaho
Application July 10, 1950, Serial No. 172,820
10 Claims. (Cl. 228—64)

1. A ladder attachment comprising a base, a pair of spaced seat members mounted on said base and having means for receiving and supporting the ends of a pair of ladder rails, a pair of support legs mounted on said base and extending on the opposite side thereof from said seat members, a hydraulic hoist for causing sliding movement



between said seat members and said support legs, and a control valve for said hoist.

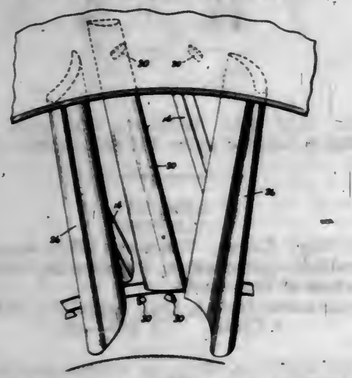
2,650,751
CARTON
Edwin Carl Goers, Wausau, Wis., assignor to Marathon Corporation, Rothschild, Wis., a corporation of Wisconsin
Application June 5, 1951, Serial No. 229,949
1 Claim. (Cl. 229—31)



A folding carton comprising a tray and cover hinged thereto, said tray having a bottom wall, front and rear walls, and a pair of opposed side walls, bellows folds connecting each of said side walls to said front wall, a portion of each of said folds being adhered to the outside face of said side walls, locking means on the inside face of said front wall operable to abut said side walls and thus hold them in vertical position when the tray portion is set up, said locking means comprising a flap connected to the top edge of said front wall divided longitudinally to provide outer and inner panels, the inner panel being folded to overlie the inside surface of the front wall, and the outer panel being oppositely folded over upon the inner panel making said flap two plies thickness at its ends, a cover locking flap formed from the inner panel of said first named flap, but cut lines therein, connected to the top edge of said front wall and folded to extend outwardly therefrom, the free outer edge of said cover locking flap presenting an abutment edge, and said cover having a top panel connected to the top edge of the rear wall, and having side walls and front wall connected to said top panel, and glue flaps on said side walls adhered to the inside face of said cover front wall, said glue flaps presenting an abutment edge for cooperative engagement with the abutment edge on said cover locking flap, the abutment edge on said cover locking flap being

adapted to move into abutment with the abutment edge of said glue flaps and maintain compressive stress on said cover locking flap during initial swinging movement of said cover from closed to open position of the carton and thus to releasably retain the cover in closed position and releasably resist opening of the carton.

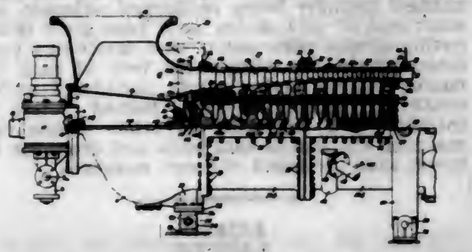
2,650,752
BOUNDARY LAYER CONTROL IN BLOWERS
Henry H. Headley, Manchester, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application August 27, 1949, Serial No. 112,723
1 Claim. (Cl. 230—120)



In combination, a fluid confining duct, a rotatable fan, means supporting said fan from the wall of said duct, said fan including a hub and a plurality of blades, said blades having root sections and main sections terminating in tips adjacent the wall of said duct, a streamlined body forward of said fan for directing a fluid stream in said duct around said hub and through said blades, turning vanes fixedly supported from the wall of said duct and connected to said body, means for increasing the overall efficiency of said propeller including a plurality of fins of airfoil shape carried by said body and the duct wall and exposed to the fluid stream, said fins being located between said turning vanes and downstream of the 50% chordwise location of said turning vanes and terminating in vortex producing tips adjacent the common surface between the main and boundary layer streams for intermixing fluid particles having varied energy levels between said streams, adjacent fins having their chords oppositely inclined relative to the axis of flow of the main stream whereby adjacent counterrotating vortices are produced.

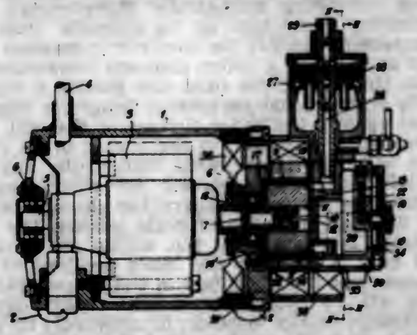
2,650,753
TURBOMACHINE STATOR CASING
Alan Howard, Bruce O. Buckland, and Chester S. Rice, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application June 11, 1947, Serial No. 754,002
2 Claims. (Cl. 230—133)

1. In a turbo-machine stator casing subject to appreciable bending stresses and extreme temperature gradients, the combination of a first unitary casing defining a fluid passage adapted to communicate with the rotor flow path and having a first continuous annular flange adjacent and concentric with the rotor, a second stator casing section divided into at least two portions along axial planes and secured together to form a continuous annular section, the second stator section having a second annular flange adapted to be secured to the first flange and a third annular flange at the opposite end of the section, a third stator casing section likewise divided into at least two portions along axial planes and secured together to form a continuous annular section and having a fourth annular flange at one end adapted to be secured to the third flange and a fifth annular flange at the opposite end of the third casing section, a fourth unitary casing section defining a fluid passage



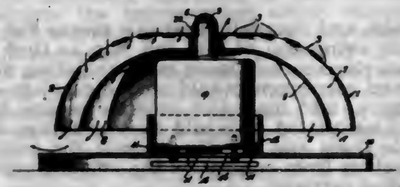
adapted to communicate with the rotor flow path and having a sixth continuous annular flange adapted to be secured to the fifth flange, said third and fourth flanges defining a cylindrical rabbet, a continuous annular ring member located between the third and fourth flanges and arranged in said rabbet, and means for securing the third and fourth flanges into firm engagement with the ring member whereby the mid-portion of the split stator casing is caused to preserve its true circular shape regardless of mechanical or thermal stresses.

2,650,754
COMPRESSOR
Hans Leopold Simon, London, England, assignor to Ronnoco Export Development Company Limited, London, England, a British company
Application February 21, 1950, Serial No. 145,372
In Great Britain January 12, 1949
1 Claim. (Cl. 230—152)



A high speed air compressor comprising a hollow cylindrical member positioned between a first and a second end member to define a cylindrical chamber, first and second end plates in juxtaposition with said first and second end members respectively and forming opposed end walls of said chamber, a free floating rotor eccentrically positioned in said chamber between said end plates, vanes on said rotor for sliding engagement with the said cylindrical chamber, mechanical means extending through said second end member and said second end plate and freely connected with said rotor for rotating said rotor, an outlet duct in said first end member communicating solely with an outlet port in said first end plate, an inlet duct in said first end member communicating with an inlet port in said first end plate and with a secondary inlet duct in said second end member leading to a secondary inlet port in said second end plate, a closed recess in said second end plate of like configuration to and in axial alignment with the outlet port of said first end plate and effective to balance the axial thrust on the rotor due to the flow of air from the chamber through the said outlet port, and a source of lubrication in communication with the said inlet duct whereby air drawn through the said inlet duct is charged with lubricant entrained therein which lubricant is deposited on the walls of the chamber by the air flowing into each end of the chamber through the inlet port and secondary inlet port respectively.

2,650,755
AIR CIRCULATOR
Joseph H. Woodward, Miami, Fla.
Application May 18, 1950, Serial No. 162,690
7 Claims. (Cl. 230—259)



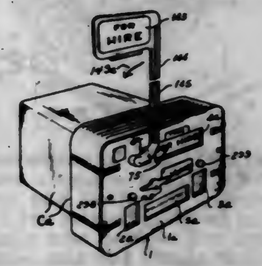
1. A centrifugal air circulating unit that comprises a base, a motor mounted on said base with its output shaft projecting normally therefrom, a first shell, a second shell, a plurality of blades connecting said shells in spaced relation with said second shell disposed within said first shell, a hub centrally joined to said shells, said hub being detachably fixed to said motor shaft for rotation therewith, said first shell defining a plurality of openings in the vicinity of said hub to permit air to pass into the space between said shells, said shells having edges terminating adjacent said base and cooperating therewith to define an outlet for air, and means on said hub cooperating with said output shaft for varying said outlet to control the pattern of air discharged by said unit, said shells substantially enclosing said motor thereby rendering said unit compact.

2,650,756
MAIL HOLDER FOR MAILBOXES
Frank H. Rubesch, Jim Falls, Wis.
Application October 22, 1951, Serial No. 252,513
2 Claims. (Cl. 232—33)



1. For use in a rural free delivery mailbox or the like, an inverted U-shaped fixture adapted to be anchored in the mailbox at a point of vantage, said fixture embodying a bight portion and spaced parallel lateral limb portions, a curvilinear flat spring located between the opposed faces of said limbs and having its free terminal ends in yieldable gripping relation in respect to said limbs, and a stirrup-like mounting for said spring embodying a U-shaped bracket smaller than said U-shaped fixture and including a bight portion and arms with said arms having their free ends attached to the bight portion of said U-shaped fixture, the central portion of said spring being separably attached to the bight portion of said U-shaped bracket.

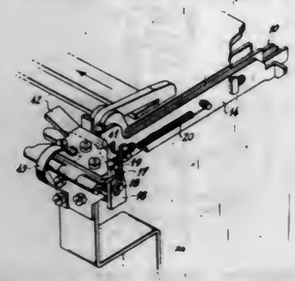
2,650,757
TAXIMETER
Joseph George Weisinger, Newark, N. J.
Application August 30, 1947, Serial No. 771,451
10 Claims. (Cl. 235—30)



6. A taximeter which has a turnable flag shaft, said flag shaft having a "For Hire" position, a movable member which is actuated from a selected position when said flag shaft is turned from said "For Hire" position, said flag shaft having actuating means to actuate said movable member from its selected position and to maintain said movable member out of its selected position when said flag shaft is turned away from said "For Hire" position, first and second indicating drums each of which has digit markings for indicating fare units, the first drum corresponding to lower fare units than the second drum, each drum being fixed to a turnable-drum shaft, each drum-shaft having a spring to bias the respective drum to return to a selected initial position, each said drum shaft having a turnable drum-member mounted loosely on said drum shaft, the shaft of the first drum having a first ratchet wheel and a cam wheel, said cam wheel having a series of peaks which have intermediate recesses fixed thereto, the first ratchet wheel having more teeth than the recesses of the second cam wheel, the shaft of the second drum having a second ratchet wheel fixed thereto, drum-actuating means which include a first pawl and a second pawl which are adapted respectively to engage said first ratchet wheel and said second ratchet wheel and to turn said drums successively in selected respective angular strokes, each said drum-member having a pin which is located to hold the respective pawl in non-operating position when said flag shaft is in said "For Hire" position, said movable member being operatively connected to said drum-members to turn said drum-members when said flag shaft is turned from its "For Hire" position in order to disengage said pins from said pawls so that said pawls then engage said first and second ratchet wheels, said pawls being biased towards said first and second ratchet wheels, and a lever which is turnably connected to the frame of the taximeter, said lever having a first leg and having a second leg, the first leg abutting the cam wheel, the second leg abutting the pawl of the second ratchet wheel to keep said pawl in non-operating position when said first leg abuts a peak of the cam wheel, said second leg releasing the pawl of the second

ratchet wheel when said first leg abuts a recess of the cam wheel, said lever being biased towards said cam wheel, whereby the strokes of said second drum are in a selected ratio to the strokes of the first drum.

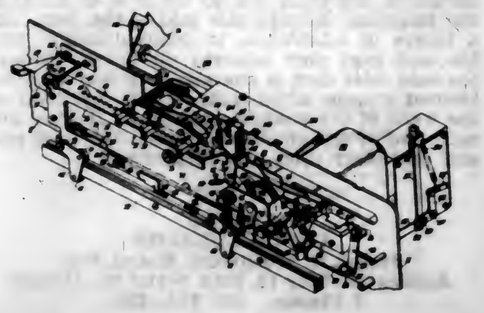
2,650,758
AUTOMATIC SKIP-TAB TABULATING MECHANISM FOR ACCOUNTING MACHINES
William H. von Hacht, Bronxville, N. Y., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware
Application December 30, 1948, Serial No. 68,182
14 Claims. (Cl. 235—60.42)



2. In an accounting machine having cyclically operating power means, amount indexing mechanism, a traveling paper carriage, means to drive the carriage through its working and return strokes, a tabulating stop and stops on the carriage engageable therewith to establish columnar positions for a work sheet, the combination of a settable means, on said carriage to disable said tabulating stop and thus enable said carriage to skip a certain columnar position, an adjusting means operated by said cyclically operating power means and operatively connected to said settable means only when the carriage is in a certain other columnar position, to adjust the said settable means to a non-disabling position and so cause the carriage to be arrested in the columnar position having the said settable means, and stop means controlled by operation of the amount indexing mechanism to control the operation of the adjusting means.

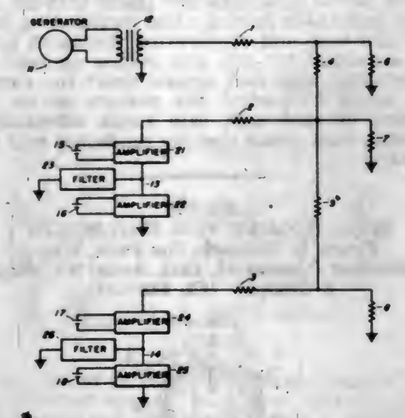
2,650,759
ACCOUNTING MACHINE HAVING RELATIVELY ADJUSTABLE PAPER AND CONTROL CARRIAGES
Oscar W. Swanson, Hartford, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware
Application December 23, 1949, Serial No. 134,622
5 Claims. (Cl. 235—60.42)

2. In an accounting machine, a group of printing elements, a computing section, a plurality of control elements carried by said computing section for determining the various functions of the computing section, a first carriage mounted upon said computing section, a spring urging said carriage in a tabulating direction, a plurality of column units spaced adjustable lateral distances along said carriage for operating said control elements, a tab stop normally located in the path of said column units and retractable during a cycle of said machine for allowing said carriage to move under the urge of its spring to positions whereat different column units are so situated as to operate said control elements, a second carriage mounted upon said computing section and carrying a roller platen for cooperation with said printing elements, means for detachably connecting said carriages together in a plurality of different lateral relations whereby the printing point on said platen may be laterally shifted with respect to said printing elements independently of the first carriage and said second carriage will partake of any movement imparted to said first



carriage, and manually operable means for preventing retraction of said tab stop so that said first carriage cannot move in a tabulating direction and consequently said second carriage cannot move, said manually operable means being also so associated with said control devices as to disable them and thereby liberate the computing section from control by the column units of said first carriage.

2,650,760
NETWORK CALCULATING BOARD
Glenn W. Bills, Portland, Oreg.
Application February 1, 1950, Serial No. 141,803
3 Claims. (Cl. 235—61)
(Granted under Title 35, U. S. Code (1952), sec. 266)



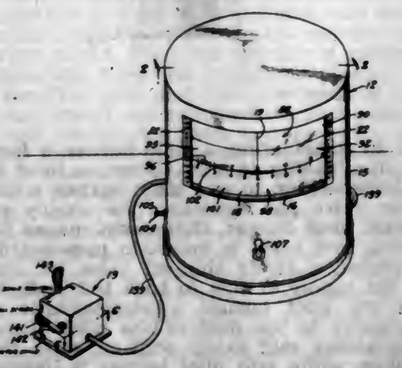
1. In a network calculating board, the combination of an alternating current generator providing power at a predetermined frequency, said generator being connected to a network of impedances representing lines and loads, said network of impedances also being connected to a plurality of negative impedance networks simulating real generators, said negative impedance networks being controlled in frequency by said alternating current generator.

2,650,761
CALCULATING MACHINE
Anthony B. Machado, San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application May 27, 1950, Serial No. 164,765
19 Claims. (Cl. 235—62)



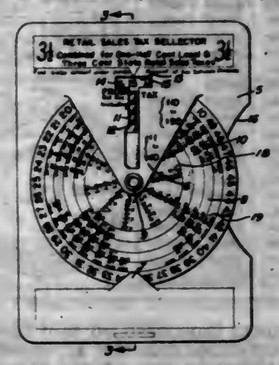
3. In a calculating machine having a motor, an operating mechanism, a clutch between said motor and said operating mechanism, and control keys for initiating operation of said operating mechanism, the improvement which comprises an eccentric driven by said motor, a hook mounted on said eccentric, a member positioned by said control keys for initiating operation of said motor, a second member positioned by said control keys for positioning said hook for travel in an operative orbit, and means for operating said clutch including an operating member engaged by said hook when said hook is traveling in its operative orbit but not when said hook is in its inoperative orbit.

2,650,762
SLIDE RULE
Paul J. Teien, Los Angeles, Calif.
Application April 9, 1951, Serial No. 219,974
10 Claims. (Cl. 235—79.5)



1. In a slide rule, the combination of: a housing; a plurality of differentially rotatable, cylindrical members mounted in said housing, said members bearing indicia upon the peripheral portions thereof; a motor in driving engagement with said members for rotating said members; brake means for releasing at least one of said members from driving engagement with said motor and preventing rotation of said member with reference to others of said members; a first remote control for energizing said motor to simultaneously rotate said members; and a second remote control for energizing said brake means to prevent rotation of said member with reference to others of said members.

2,650,763
TAX CALCULATOR
Gerald M. MacGinnis, San Francisco, Calif.
Application December 11, 1950, Serial No. 200,237
2 Claims. (Cl. 235—88)

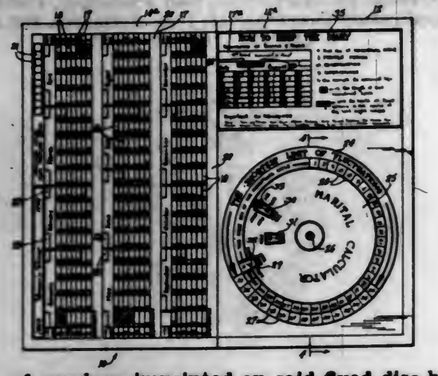


2. In a calculator of the class described, a backing plate, a tongue partially cut from the backing plate and having a T-shaped window opening, an a disc rotatably carried by the tongue and frictionally held between the backing plate and the tongue, said disc having indicia thereon and including a central group of sales tax computations and an outer group of sales tax computations arranged in radial rows aligned with each other, each row representing amounts in dollars and fractions thereof and with a computed sales tax adjacent thereto, and the central rows representing amounts of less value than the outer rows and all of the rows being selectively registrable with the window opening and said radial row of the central group of highest value and said radial row of the outer group of lowest value being radially aligned with each other for simultaneous registry with the window opening to facilitate progressively reading the computations of said highest and lowest rows at the point of change-over from one row to the other, and the radially outermost indicia of at least two of the adjacent radial rows of the computations being adapted to simultaneously register in the top of the T-shaped opening to determine the direction in which the disc should be turned to register higher or lower amounts with the opening.

2,650,764
WOMAN'S DIARY AND MARITAL CALCULATOR
Zdzislaw L. Pirszel, Forest Hills, N. Y.
Application September 11, 1951, Serial No. 246,045
2 Claims. (Cl. 235—88)

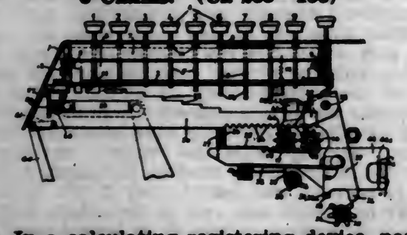
1. In a woman's diary and marital calculator comprising a booklet having at least one set of facing pages, with a diary imprinted in one of said facing pages for recording data regarding menstrual cycles, a calculator mounted on the other of said facing pages for determining the sterile and fertile periods of a menstrual cycle, said calculator comprising a fixed disc imprinted on the said other facing page, a smaller disc rotatively mounted on the said other facing page concentric with said fixed disc, said rotative disc having individual boxes adjacent its periphery numbered from 1 to 31 corresponding to the days of the month, said fixed disc having individual boxes exposed beyond the periphery of said rotative disc and imprinted with numbers corresponding to the shortest limit of fluctuations of a number of consecutive menstrual periods, said rotative disc having radially and circum-

ferentially spaced slots one for 31 day months, one for 30 day months and for February, and



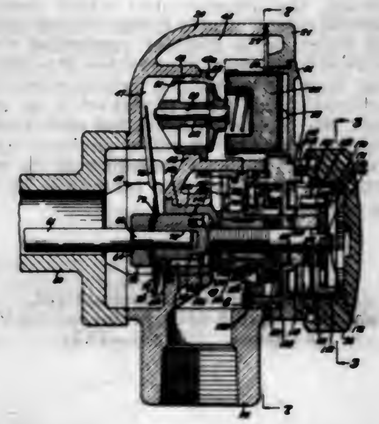
sets of numbers imprinted on said fixed disc beneath said rotatable disc and arranged in circles concentric with said slots of said rotative disc.

2,650,765
TENS-TRANSFER MECHANISM
Chi Liang Cho, Zurich, Switzerland, assignor to Electro-Watt Electrical and Industrial Management Co., Ltd., Zurich, Switzerland
Application January 11, 1949, Serial No. 70,337
In Switzerland January 16, 1948
3 Claims. (Cl. 235—138)



1. In a calculating registering device, particularly for cash registers, book-keeping and other calculating machines, having a full board of keys arranged in columns, with a slidably mounted rack beneath each column of keys, and mechanisms for grand total and detail total having their constituent parts moving adjacent one another; a pair of toothed shift racks for each of the slidably mounted racks, a pair of shift levers for each pair of shift racks and pivotally supported at one of their ends on a common axis, an engaging roller for each pair of shift levers, pinions included in each of the mechanisms meshing with one of the shift racks of each pair and each having a shift tooth, each of said shift levers having an arm at its pivoted end to engage the shift tooth of the respective one of the pinions, each of said shift levers having two shift teeth at its end remote from its pivoted end, each of said shift racks having a nose projecting downwardly at right angles, one shift tooth of each of said shift levers being engaged by one of said noses, said engaging roller having engaging teeth, the other shift teeth of said shift levers being adapted to be engaged by the engaging teeth of said engaging roller, a click cam on each of said shift levers intermediate of their ends, a holding spring engaging each of said click cams, said engaging teeth of said engaging rollers being disposed so as to correspond to the sequence of columns of keys and arranged from the lowest up to the highest column of keys in a spiral line one behind the other with the same angular pitch, click springs holding the first-mentioned racks in initial positions, the first-mentioned racks being disposed in their initial positions out of engagement with the pinions of said grand total and said detail total mechanisms, and slidably mounted bearing plates supporting said pinions and being movable to engage said pinions with the first-mentioned slidable racks, one shift rack of each pair of shift racks being in alignment with the respective slidably mounted rack and the other shift rack of each pair being disposed parallel to and to one side of the said one shift rack of each pair.

2,650,766
SAFETY GAS VALVE
Dan A. Brown, Long Beach, and James H. Huribut, South Gate, Calif., assignors to Rheem Manufacturing Company, Richmond, Calif., a corporation of California
Application November 22, 1948, Serial No. 61,364
13 Claims. (Cl. 236—21)



5. In combination, a main burner, a fuel supply line leading to said burner, a pilot burner in juxtaposition to said main burner, a thermostatic valve for regulating the supply of fuel to said main burner, thermostat means for adjusting said valve to maintain preselected temperatures, a safety shut-off valve for shutting off the supply of fuel to both the main burner and the pilot burner, electromagnetic means responsive to the heat of the pilot burner for maintaining said safety shut-off valve in open position while said pilot burner is lighted and adapted to release said safety shut-off valve for movement to closed position on extinguishment of the pilot burner, a rotatable dial for adjusting said regulating valve to select different temperatures to be maintained by said thermostat means, means associated with said rotatable dial adapted to open said safety shut-off valve for reignition of said pilot burner while said thermostat means is set at a minimum temperature value and torque means associated with said reset means to urge said rotatable dial and said reset means to a position for closing both said thermostat valve and said safety shut-off valve and releasable therefrom upon rotation of said rotatable dial past the said reset position.

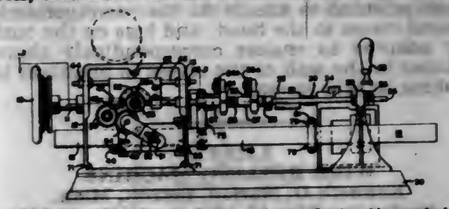
2,650,767
VALVE FOR LUBRICANT TEMPERATURE REGULATING SYSTEMS
Leo B. Nemmer, Glendale, Calif., and Charles J. O'Brien, Lockport, N. Y., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 6, 1941, Serial No. 396,830
8 Claims. (Cl. 236—34.5)



1. In a valve, a body with a cylindrical bore in it, a hollow cylinder mounted so that it can rotate within the bore, a transverse partition in the cylinder which subdivides the bore lengthwise into an inlet chamber and an outlet chamber, an inlet port in the body which opens laterally into the bore opposite the inlet chamber, an outlet port in the body which opens into the end of the outlet chamber, by-pass inlet and outlet ports in the body which open laterally into the bore opposite the inlet chamber and opposite the outlet chamber, respectively, an intermediate outlet port in the body which opens laterally into the bore opposite the inlet chamber, two intermediate inlet ports in the body which open laterally into the bore opposite the outlet chamber, a port in the cylinder which opens laterally into the inlet chamber and the bore and ports in the cylinder which open laterally into the outlet chamber and the bore so disposed that, when the cylinder is in one position, the first specified inlet port and the by-pass ports are open and the intermediate outlet port and the intermediate inlet ports are closed, when the cylinder is rotated in one direction from the mentioned position, the first specified inlet port, the intermediate outlet port and one of the intermediate inlet ports are open and the by-pass ports and the other intermediate inlet port are closed and, when the cylinder is rotated further in the mentioned direction, the first specified inlet port and the intermediate outlet port and the other only of the intermediate inlet ports are open and the by-pass ports are closed, a helical bimetal thermostat which is disposed within and lengthwise of the bore between the ports which open laterally into it and the outlet port and so constructed and arranged that when its temperature rises it rotates the cylinder in the mentioned direction, a port in the partition between the inlet chamber and the outlet chamber, and a valve member which normally closes the last specified port but moves to a position in which the port is open when the pressure in the inlet chamber exceeds that in the outlet chamber by a predetermined value.

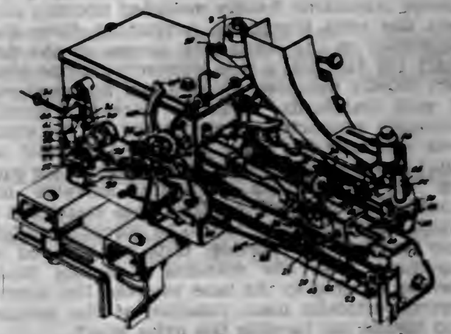
2,650,768
COIL-WINDING APPARATUS
George Stevens, Chicago, Ill.
Application June 11, 1946, Serial No. 675,995
2 Claims. (Cl. 242—25)

1. In a device of the kind described, means for winding a coil progressively, said means including a rack; a stop for limiting the travel of said rack; and a handle for returning said rack, after



it has reached its limit of travel, to its original position.

2,650,769
BUNCH BUILDING METHOD AND APPARATUS
Edward J. Berry, Providence, R. I., assignor to Draper Corporation, Hopedale, Mass., a corporation of Massachusetts
Application June 13, 1946, Serial No. 676,445
20 Claims. (Cl. 242—27)



1. A filling bobbin winder comprising means for supporting and rotating a bobbin, an oscillating thread guide member for building a main package on the bobbin, doffing mechanism operative upon completion of said main package on the bobbin, means actuated by said doffing mechanism for advancing the oscillating thread guide into a position directly above the outer end of the bobbin, and thread-deflecting means separate from the oscillating thread guide for limiting the traverse of the thread as it is applied by the oscillating thread guide in its advanced position to form a tip bunch.

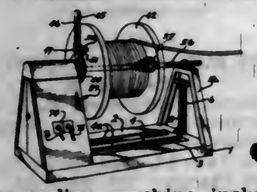
2,650,770
DRIVER FOR SPOOLS OR BOBBINS
Earl G. Crooks, Binghamton, N. Y., assignor to Lestershire Spool and Manufacturing Company, Johnson City, N. Y., a corporation of New York
Application May 14, 1952, Serial No. 287,743
3 Claims. (Cl. 242—46.4)



1. In a spool, bobbin or the like having a barrel provided with a head at one end having a drive

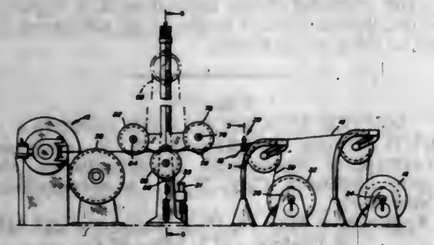
spindle recess therein disposed coaxially of said barrel; a deformable driving bushing within said recess adapted to snugly fit the correspondingly shaped recess in the head; and lugs on the bushing adapted to engage correspondingly shaped notches in the wall of the recess to maintain the bushing in said recess.

2,650,771
WIRE REELING MACHINE
Kenneth O. Marion, Detroit, Mich.
Application May 11, 1949, Serial No. 92,545
4 Claims. (Cl. 242—54)



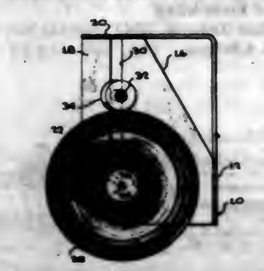
1. A wire reeling machine including a bed, spaced standards fixedly mounted thereon adjacent the ends thereof, a horizontal drive shaft supported on the standards, means on the drive shaft for turning a reel therewith, guide members fixedly mounted on said bed adjacent each of said standards, vertically threaded spindles rotatably supported upon the bed by the standards, said spindles being positioned between said guide members, reversible driving means for turning the spindles, a vertically movable base mounted on said bed between said standards on which the reel is adapted to be placed for lifting into position for rotation, nuts in threaded engagement with the spindles including means thereon secured to the base whereby the latter is moved vertically upon rotation of the spindles, and means for turning the drive shaft.

2,650,772
STRAND SUPPLY APPARATUS
John B. Gray III, Essex, and Samuel M. Martin, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application June 17, 1949, Serial No. 99,672
10 Claims. (Cl. 242—54)



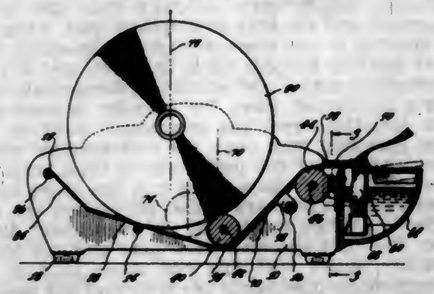
1. A strand supply apparatus, which comprises means for supporting a length of a filamentary article, means for advancing the length of filamentary article from the supporting means, article-clamping means positioned between the supporting means and the article-advancing means, a detector for actuating the clamping means to clamp the article near the trailing end of said length thereof as the filamentary article is exhausted so that said end may be connected to the leading end of a second length of filamentary article, and means for actuating the article-clamping means to release the first-mentioned length after the two lengths have been connected.

2,650,773
RETARDING MEANS FOR ROLL PAPER DISPENSERS
William I. Fanning, Storm Lake, Iowa
Application October 2, 1951, Serial No. 249,350
3 Claims. (Cl. 242—55.2)



1. In a dispenser for roll paper of the type having a retarding means incorporated therein, a casing; a roller mounted therein and adapted to support a roll of paper for rotation of said roll within the casing to dispense paper therefrom; and a second roller mounted rotatably in the casing above the first roller and adapted to gravitate into engagement with the surface of said roll of paper, the longitudinal axis of the second roller bearing an angular relation to the longitudinal axis of the first roller, so as to constitute a means effective to retard free rotation of said roll of paper.

2,650,774
GUMMED TAPE DISPENSER
Theodore H. Krueger, Stratford, Conn., assignor to Better Packages Incorporated, Shelton, Conn., a corporation of New York
Application July 29, 1948, Serial No. 41,198
1 Claim. (Cl. 242—55.5)



In a strip serving device of the "pull-out" type in which a roll of gummed tape wound with the gummed side in is to be dispensed, a tape basket for receiving the roll of tape, said basket comprising vertical side plates and a sheet metal bottom comprising a forwardly and downwardly inclined section towards the rear of the basket, a forwardly and upwardly inclined section towards the front of the basket and a concave curved portion smoothly connected to, and uniting said sections, a supporting and guide roller mounted transversely across the basket immediately above the curved section of the bottom thereof, but spaced above said curved section sufficiently to permit the end of the tape to be passed around said roller and to be guided by said curved bottom section and forwardly and upwardly along said inclined forward section, the downwardly and forwardly inclined rear part of the basket bottom and said guide roller constituting spaced supports for supporting the roll of tape to be dispensed, a guide roller mounted transversely of the tape basket near the forward end thereof having its upper surface substantially tangent with the forwardly and upwardly inclined front part of the tape basket bottom over which the tape passes as it is guided upwardly and forwardly by said bottom section so that the tape, when drawn forwardly over said second guide roller will be presented for delivery gummed side down.

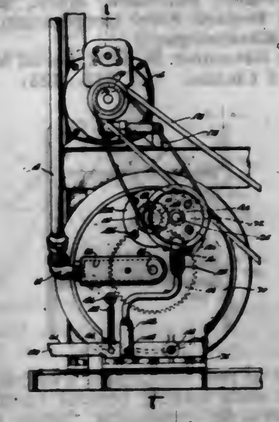
2,650,775
PORTABLE REWINDER FOR PAPER TAPE FROM BUSINESS MACHINES
Jack Reche, New Orleans, La.
Application April 22, 1952, Serial No. 283,649
7 Claims. (Cl. 242—74)



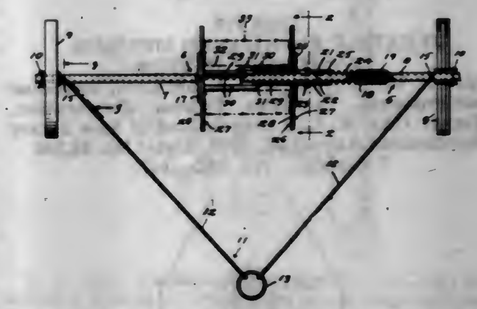
1. Portable rewinding device for the continuous paper tape discharged from business machines of the type which are generally intermittently operated and discharge tape concurrently with their operation, said rewinding device comprising a drum having a cylindrical peripheral face upon which the tape is wound and closed by headers perpendicular to the axis of said drum, an axle nonrotatably supported, upon which the drum is journaled, a gear fixed to the axle within said drum, clockwork mechanism within said drum carried thereby, including a gear reacting against said fixed gear to revolve said drum about said axle, said drum being formed in two segments transversely dividing its peripheral face, having end walls together constituting said headers, said end walls of one segment overlapping the end walls of the other segment and being hinged together at one end adjacent the circumference of said drum, the peripheral face of one segment being adapted to lap the peripheral face of the other segment at the free ends of said segments whereby one may be telescoped within the other to reduce the circumference of said drum and separate the lapped ends of said peripheral faces providing a space between said ends for the insertion of the end of the length of tape issuing from the business machine, and means for clamping said segments in normal expanded position in which the lapped ends of said peripheral faces clampably engage the inserted end of the tape.

2,650,776
HOSE RETRACTION ASSEMBLY
Ross Eugene Risner, Jr., Bonham, Tex.
Application January 28, 1948, Serial No. 4,782
2 Claims. (Cl. 242—86)

1. A hose retracting assembly for use with a fluid pump having a motor and a hose for delivering the fluid output of the pump, said assembly comprising a reel for storing the hose and conveying fluid to said hose, gear means for driving said reel comprising an element supporting a pair of shafts, and a pair of gears mounted on said shafts, said pair of gears being in engagement and rotatable about the axis of one gear of said pair, a pulley on the shaft of the other gear of said pair, a belt extending between said pulley and said motor for the transmission of power to said pulley from said motor, and means for pivoting said element to place said belt in driving engagement with said pulley, wherein the said other of said pair of gears drives said remaining gear means to power said reel.



2,650,777
WIRE UNWINDING SPOOL AND SUPPORTING STRUCTURE
George W. Robbins, Arlington, Ind.
Application June 15, 1951, Serial No. 231,722
7 Claims. (Cl. 242—99)



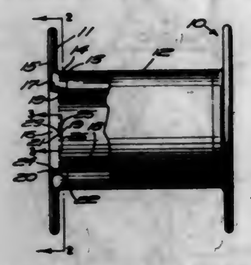
1. A device of the character described comprising an axle formed of end sections, wheels journaled on and supporting said axle adjacent its terminals, means for forming a detachable and an adjustable connection between adjacent end portions of the axle sections, a first disk fixed to one of the axle sections, a second disk slidably and detachably mounted on said one axle section between the first disk and the connecting of the axle sections, means non-rotatably connecting the said second disk to the first mentioned axle section, spring means disposed on the first mentioned axle section between said connecting means of the axle sections and said second disk and yieldably urging the second disk toward the first disk, a spool demountably supported on the first mentioned axle section between said disks having end portions frictionally engaged by the disks for resisting rotation of the spool about the axle, said spool being adapted to support a roll of wound material to be unwound from the spool by rotation of the spool relatively to the axle and to said disks.

2,650,778

TORQUE RESISTING LOCKING LUG FOR THE CENTER TUBE OF A SPOOL REEL OR WARP BEAM

Robert V. Olson, Attleboro, Mass., assignor to Mossberg Pressed Steel Corporation, a corporation of Massachusetts

Application November 24, 1951, Serial No. 257,997
3 Claims. (Cl. 242—123)



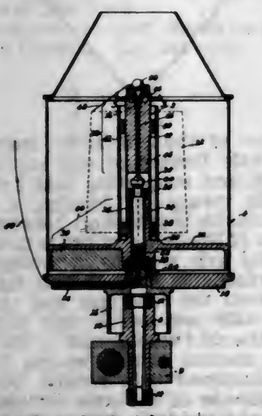
1. A spool or reel comprising a barrel, heads at its opposite ends having central openings each with an inwardly extending flange about the opening, said flange having a generally continuous edge, a center tube extending through the barrel and through an opening in a head and outwardly flared to hold it in place, lugs spaced from the end of the tube and projecting radially outwardly from the stock of the center tube with edges extending along and in abutting engagement with the end of said flange and axially extending spurs on the edges of said lugs projecting into the edge of the flange beyond said line of abutment to prevent relative turning of the head and tube about its axis.

2,650,779

FLEXIBLE ELONGATED MEMBER TENSIONING DEVICE

Henry C. Uhlig, Clifton, N. J., assignor, by mesne assignments, to Howe Twister Corporation, Jersey City, N. J., a corporation of New Jersey

Application August 25, 1948, Serial No. 46,108
7 Claims. (Cl. 242—147)



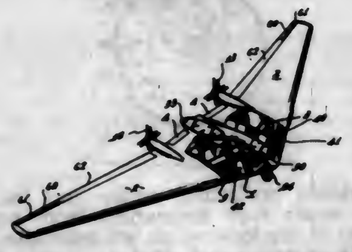
3. A tensioning device for yarn or other flexible strand material, comprising a seat element of non-magnetic material having a laterally extended upper surface formed centrally with an opening for free downward passage of a strand to be tensioned, a sphere of magnetic material to overlie said opening and bear upon said surface in tensioning relation to such strand, said sphere being rollable laterally on said surface to give any needed clearance for strand movement between the sphere and said opening, and magnet means below said seat element exerting through it a magnetic flux drawing the sphere to said surface with a predetermined force and urging the sphere from displaced positions on laterally extended parts of said surface to a centralized position over said opening.

2,650,780

ALL-WING AIRCRAFT

John K. Northrop, Pacific Palisades, and Walter J. Cerny, Los Angeles, Calif., assignors to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California

Application April 2, 1949, Serial No. 85,087
1 Claim. (Cl. 244—13)



An all-wing transport airplane comprising: a center section having a relatively low taper ratio in plan and chord thickness with swept-back leading edges and swept-forward trailing edges; a wing panel joined to said center section on each side thereof, said wing panels having swept-back leading and trailing edges with a substantially lower taper ratio in plan and chord thickness than said center section, the leading edge of each said wing panel being a straight-line extension of the swept-back leading edge of said center section; main airframe structural members within said center section comprising a plurality of laterally-extending spars and longitudinally-extending trusses, said spars and trusses being apertured to provide a central connected space between said wing panels usable substantially in its entirety for passenger or cargo transport, said trusses including a central vertical truss in the center-line plane of said airplane; a separate crew compartment considerably narrower than said center section mounted on said central truss and projecting above said center section substantially entirely outside of said space and somewhat aft of said center section leading edge; a thick central fairing extending behind said compartment atop said center section, said central fairing widening out as it reaches the rear half of said center section to provide additional head space therein; and a tail cone faired into the rear of said central fairing and extending aft beyond the trailing edge of said center section and above and below the normal airfoil lines of said center section.

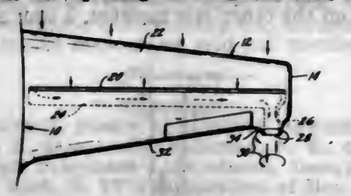
2,650,781

BOUNDARY LAYER CONTROL FOR AIRCRAFT

Harlan D. Taylor, Manchester, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application August 11, 1950, Serial No. 178,886
2 Claims. (Cl. 244—40)

1. In an aircraft having a fuselage and a wing, said wing forming external upper and lower major surfaces and terminating in a free tip which produces a tip vortex during flight, suction means in said wing for taking off boundary layer air from an external surface of the wing comprising an unobstructed, imperforate, fluid-tight duct in said wing communicating at one end with an opening in said external surface



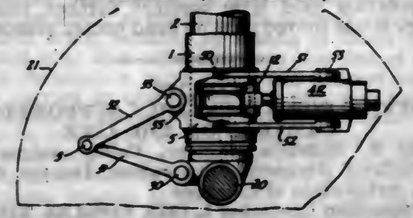
and terminating at the other end in a rearwardly facing opening at the trailing edge of said wing tip, whereby suction in said duct is produced by the low pressure developed at the core of said tip vortex during movement of the wing in flight.

2,650,782

LANDING UNIT FOR AIRCRAFT

Wendell B. Fehring, Seattle, Wash., assignor to Boeing Airplane Company, Seattle, Wash., a corporation of Delaware

Application September 18, 1951, Serial No. 247,061
10 Claims. (Cl. 244—50)



1. A landing unit for aircraft for installation alternatively for steering or for straight-ahead movement, comprising two generally upright cylinders concentrically disposed and relatively axially movable, one being non-rotative and the other being rotative relative to the non-rotative cylinder, a ground-contacting element mounted upon and for rotation with the lower end of said rotative cylinder, an upper and a lower torsion link pivotally connected together along a transverse axis joining their adjoining ends, pivot means similarly connecting the lower link at its lower end to the rotative cylinder, two anchorage means spaced circumferentially about and fixedly secured to the non-rotative cylinder, a support separate from both cylinders and pivotally connected to the upper end of the upper torsion link, similarly to the connection of the lower end of the lower link to the rotative cylinder, and means operatively connecting said separate support to said two fixed anchorage means, either directly in order to prevent relative rotation of the two cylinders, or indirectly through angularly adjustable steering means in order to effect controlled relative rotation between the cylinders, the two cylinders being free in either case to move relatively axially, in any relative angular position.

2,650,783

CHRISTMAS TREE STAND

Franklin P. Stanley, Wilmington, Calif.

Application May 7, 1951, Serial No. 224,955
1 Claim. (Cl. 248—44)

In a container having an upper edge and a plurality of circumferentially spaced apertures adjacent its upper edge, means for supporting the container in an elevated position and for retaining a Christmas tree in the container, said means comprising a plurality of supporting legs having upper ends, a U-shaped wire member associated with the upper end of each leg, said members each including first and second leg



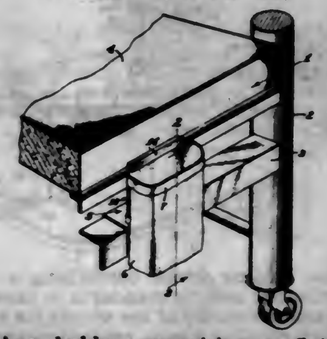
portions and a web portion joining said leg portions, said first leg portions extending into the upper ends of said legs and the second leg portions of said members being elongated and extending through said legs and terminating in coils trained through the apertures and over said upper edge, said wire members reinforcing and strengthening said legs.

2,650,784

HOLDER FOR PAPER DISPOSAL BAGS

John M. Thayer and Mary M. Thayer, Fort Belvoir, Va.

Application October 1, 1948, Serial No. 52,226
6 Claims. (Cl. 248—95)



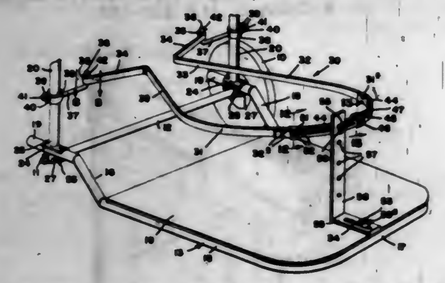
1. A bag holder comprising a flat upright member having a transverse upper edge adapted to enter the crevice between the back of a bag and the adjacent portion of the mouth-surrounding margin of said bag when said margin is overfolded in an outward direction, as far as the foldline between the back of the bag and said margin, for suspending said bag, the forward face of said upright member being adapted to support the back of the bag, and a keeper solely supported by said upright member freely gravitationally slidable in a downward direction on said upright member, at the rear face thereof, said keeper having a forwardly and downwardly turned lip at the top adapted to hook over said upright member and the intervening part of said bag, when in lowermost position, imposing its weight on the top of said bag, said keeper having transversely aligned opposite guide lugs adjacent its lower end slidably embracing the side edges of said upright member with sufficient freedom in a front to back direction to permit said keeper to be tilted out of the plane of said upright member when said lip has been disengaged from the top of said upright member, and means for supporting said upright member.

2,650,785
WRIST WATCH STAND
Aaron Haister, New York, N. Y.
Application December 17, 1947, Serial No. 792,184
3 Claims. (Cl. 248—116)



3. A stand for a wrist watch or the like comprising a pair of horizontally spaced side wall members, integral side flanges on the bottom ends of said wall members to provide a base, offset struck-out strap portions on the opposed inner surfaces of said wall members adjacent their bottom ends, an inverted U-shaped tie member extending across the space between the wall members and having its side arms interlocked with said struck-out strap portions, the free ends of said tie member being bent around the side flanges, said wall members having arcuate shaped outer edges with opposed notches therein at one end forming supporting surfaces for a wrist watch, said wall members having a continuous uninterrupted passage therebetween from end to end for receiving a projection on a wrist watch.

2,650,786
GARBAGE CAN HOLDER
George S. Platt, Baton Rouge, La.
Application May 4, 1951, Serial No. 224,528
3 Claims. (Cl. 248—129)



1. A can holding device comprising a wheeled frame including upright standards, a base carried by said frame forwardly of the wheels for receiving a can, part-circular bands extending above said platform and having their forward ends overlapped and movable relatively to contract or enlarge the diameter of the circle of the bands to accommodate cans of varying sizes, an adjusting bar at the forward portions of said base, means for clamping the overlapped forward ends of the bands to fixed vertical positions on said adjusting bar, means for adjusting said adjusting bar forwardly and rearwardly upon said base to agree with various degrees of overlapping of the forward ends of said bands, said bands having separated rear ends, pivots for the rear ends of said bands, and brackets vertically and angularly adjustable on said standards carrying said pivots for vertical and forward and rearward bodily adjusting movement.

2,650,787
STORY POLE HOLDER
Charles Cliff Valentine, Seymour, Tenn.
Application September 7, 1951, Serial No. 245,441
3 Claims. (Cl. 248—226)

1. A story pole holder comprising a first jaw member, story pole securing means on said first jaw member, a second jaw member opposing the first jaw member, said jaw members being adapted to abut a block member and to engage the opposite corners of said block member, means slidably connecting the jaw members, a lever pivoted to one of the jaw members, an apertured flange on the other jaw member, a link connect-



ed to said lever and extending through the aperture in said flange, a nut threaded on said link below the flange, a deformable resilient washer on the link between the flange and said nut, said link being arranged to contract the jaw members responsive to rotation of the lever, and means supporting said lever against further rotation after it has moved past its dead center position.

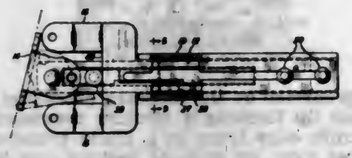
2,650,788
DEVICE FOR ADJUSTABLY SUPPORTING CAMERAS OR THE LIKE
Neal S. Hulstein, Denver, Colo., assignor to Heiland Research Corporation, Denver, Colo., a corporation of Colorado
Application December 1, 1945, Serial No. 632,187
1 Claim. (Cl. 248—239)



A device for adjustably supporting a camera or the like, said device comprising a clamp adapted to grip the edge of a support, a first ball member rigidly attached to and projecting from said clamp, a second ball member having means for releasably attaching it to the camera or the like to be supported, a pair of clamping plates provided with depressions of substantially semi-spherical form near their opposite ends for clamping engagement with opposite sides of said ball members, and a single adjusting screw passing through threaded apertures in said clamping plates at their mid-portions and between said ball members, said adjusting screw having threads of a first relatively fine pitch of about

$\frac{1}{8}$" engaging in the threaded aperture of one of said clamping plates and threads of a second relatively fine pitch of about $\frac{1}{10}$" engaging in the threaded aperture of the other of said clamping plates, whereby turning of said adjusting screw will cause said clamping plates minutely to move toward or away from each other in order to effect a corresponding differentially fine adjustment of the clamping pressure on said ball members.

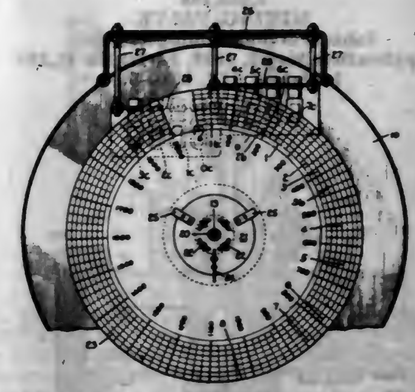
2,650,789
MOUNTING FOR TELEPHONE APPARATUS
Joseph F. Stropnicky, Bellerose, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 26, 1949, Serial No. 129,626
2 Claims. (Cl. 248—286)



1. In a brace assembly for mounting an apparatus-carrying panel on a switchboard, a track member fixed to the switchboard and having an elongated slot extending longitudinally of said track member, a slotted arm slidably mounted on said track member by means of rivets fixed to said arm and extending into the slot of said track member, a panel-mounting bracket rotatably carried on one end of said arm and having an aperture therein, a swivel bar mounted for rotation in the slot of said slidably mounted arm, a detent fixed to the outer end of said swivel bar and adapted to fit into the aperture in said panel-mounting bracket to effectively lock the bracket against rotation, means urging said swivel bar in a direction such that the detent thereof is biased in the direction of the aperture in said bracket, means including a face of said track for precluding rotation of said swivel bar in the opposite direction, said swivel bar being of such length relative to the length of said track member that when said slotted arm is withdrawn from said track member to its fully extended position its inner end just clears the face of said track member to render the said rotation-precluding means ineffective, manually engageable means for rotating said swivel bar in a direction such as to withdraw its detent from the aperture in said panel-mounting bracket, and a cross-piece formed integrally with said track member and so disposed with respect to said swivel bar when said slidable arm occupies its fully extended position and said swivel bar is rotated so as to withdraw the detent thereof from the aperture in said bracket that the inner end of said swivel bar is in alignment with said cross-bar to preclude movement of said slidable arm from its fully extended position.

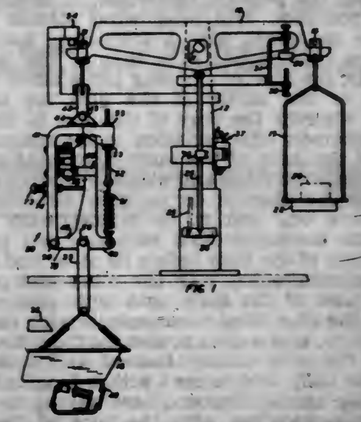
2,650,790
PHOTOELECTRIC BATCHING WEIGHER
Oswald S. Carlisle, Glenside, Pa., assignor, by mesne assignments, to The Jacobs Bros. Co. Inc., New York, N. Y., a corporation of New York
Application January 12, 1949, Serial No. 70,659
4 Claims. (Cl. 249—14)

1. In a scale of the class described, a dial, means mounting said dial for rotation about a predetermined axis in response to the weight applied to the scale, a series of hopper control-



ling circuits, a light responsive element in each of said circuits, illuminating means for said light responsive elements at one side of said dial, and means mounting said light responsive elements in positions differently spaced from the dial axis at the side of said dial opposed to said illuminating means whereby a particular zone of said dial controls each circuit individually through its light responsive element in all rotated positions of the dial, said dial having openings in at least certain of the said zones through which the illuminating means actuates the corresponding hopper controlling circuits while the dial rotates on its axis.

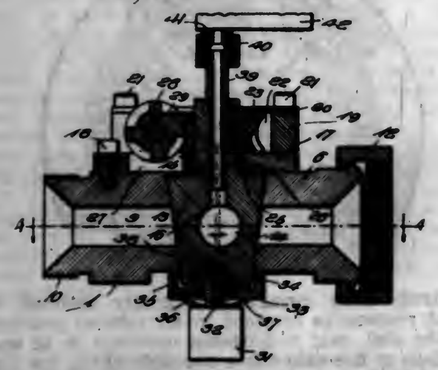
2,650,791
MATERIAL WEIGHING APPARATUS
George P. Adams, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 28, 1951, Serial No. 223,511
9 Claims. (Cl. 249—16)



1. Material weighing apparatus, which comprises a balance beam, a counterpoise suspended from one end of the beam, an electric switch suspended from the opposite end of the beam, a frame suspended from the said opposite end of the beam, means mounted pivotally on the frame and having a switch actuating means provided thereon, load receiving means suspended from the pivotally mounted means so that the weight thereof tends to cause the pivotally mounted means to move in a direction to open the switch, and yieldable means acting against the weight of the load receiving means for holding the pivotally mounted means in position in which the

switch actuating means closes the switch, the force of said yieldable means being such that a predetermined minimum increase in weight on the load receiving means overcomes the yieldable means and causes the actuating means to open the switch.

2,650,792
MIXING VALVE
John Marco, Wilmington, Del.
Application May 3, 1949, Serial No. 91,203
1 Claim. (Cl. 251—95)



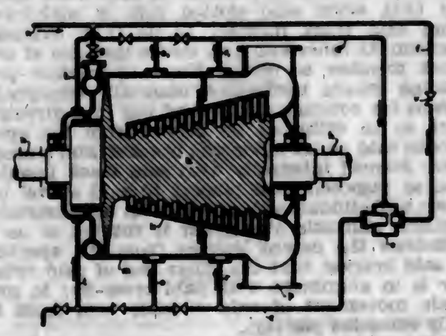
A valve for a mixing apparatus comprising a body formed with a longitudinally extending bore axially disposed throughout its length, the body being also formed intermediate its length with a transverse socket tapered toward one end for its full length and intersecting the bore diametrically thereof and dividing the bore into end portions spaced from each other by the said socket, a plug conforming to the taper of said bore for its entire length fitted into the bore through the large end thereof and having rotatable wedging fit within the bore for movement to opened and closed positions, said plug being formed intermediate its length with a transverse bore of a diameter corresponding to that of the bore of the body, the bore of the plug being offset transversely of the center of the plug for its full length, whereby the bore of the plug is disposed in transversely offset relation to the spaced portions of the bore of the body when said plug is in its opened position and whereby turning movement of the plug in an opening direction will first move one end of its diametrically offset bore into communication with one end portion of the bore of the body before its other end moves into communication with the other end portion of the bore of the body, and both ends of the core of the plug, then communicate with the bore of the body, and a stem projecting from the large end of the plug axially thereof and outwardly from the body and formed with a longitudinally extending axially disposed bore having its inner end communicating with the bore of the plug midway of the length thereof and in diametrically offset relation thereto.

2,650,793
VALVE
James R. Clark, Jr., and Ralph W. James, Pasadena, Calif., assignors to Loyola University Foundation, Los Angeles, Calif., a nonprofit corporation of California
Application September 25, 1950, Serial No. 186,532
10 Claims. (Cl. 251—144)

1. A check valve responsive to minute changes in fluid pressure comprising: a separable body including an inlet portion provided with an inlet bore and a discharge portion provided with a discharge bore; means for interconnecting said body portions with their bores in alignment and with the inner end of the inlet bore spaced from the discharge bore in the discharge portion; a poppet comprising a skirt having a lightweight ported cylindrical wall, said skirt being tapered toward the outer end of the inlet bore and loosely fitting the inlet bore for reducing frictional engagement of the skirt with the inlet bore when the axis of the skirt is misaligned with the axis of the bore, a head closing the inner end of the skirt and extending outwardly therefrom, a rearwardly directed lip carried by the outward extension of the head, said lip forming a circular rearwardly directed knife edge lying in a plane transverse to the poppet axis; an annular seating ring held by the inner end of the inlet portion, said annular ring being resilient and presenting a virtually convex radially outwardly facing zone to the knife edge, the diameter of the knife edge being greater than the mean diameter of such seating ring; whereby virtually all portions of the knife edge contact and are imbedded in the said convex zone of the seating ring even when the axis of the poppet skirt is not in alignment with the inlet bore; and light spring means biasing said poppet into seating ring.



2,650,794
PRESSURE FLUID TURBINE
Karl A. Rüder, Post Rettendorf, near Wurzburg, Germany
Application February 16, 1951, Serial No. 211,379
In Germany February 2, 1949
1 Claim. (Cl. 253—39)



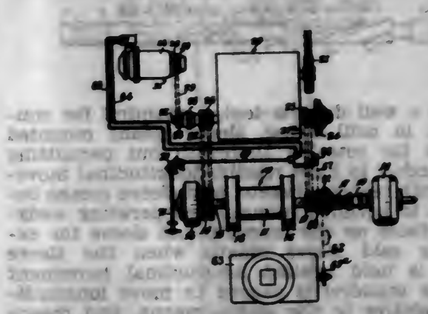
In a pressure fluid turbine having an outer casing, a rotor, a stationary guide-blades carrying drum enclosing said rotor and open at both ends to the interior of said casing, a casing inlet and a casing outlet, wall means in said casing intermediate of said casing inlet and said casing outlet for supporting said stationary guide-blades carrying drum intermediate of the ends thereof and a supply conduit for said driving fluid connected to the outer casing through the intermediary of a main valve, the provision of an ejector the supply side of which is connected to a conduit branched off from the supply conduit of the turbine at the upstream side of the main valve of the turbine and the outlet side of the ejector being connected to a conduit leading to one or more inlet openings provided in the lower part of the wall of the casing of the turbine, said ejector having a suction conduit connected to one or more discharge openings in the upper part of the wall of said casing, each inlet opening in the lower part of the casing and the corresponding discharge opening in the upper part of the casing being located substantially in a common plane perpendicular to the axis of the turbine.

2,650,795
BED LIFTER
Alfred B. Bell, Philadelphia, Pa.
Application June 2, 1950, Serial No. 165,837
10 Claims. (Cl. 254—100)



1. In a device of the type described, a triangulate stand including a hollow center-post with oppositely inclined branches embodying angularly-related portions merging into spaced extensions; axially aligned braces rigidly connecting said extensions to the center-post, and a caster element secured to the free end of each such extension for point contact with the device supporting surface; elevator means mounted to the triangulate stand including a rigid component and a lifter-component movable relative thereto, as well as having joint capacity for slight angular self-adjustment with respect to the plane of the stand aforesaid; a foot-piece at the lower end of the lifter-component for projection below an article of furniture, to be inclined to the horizontal at times, for easy access thereunder; an operating shaft, socketed and turnably restrained in the base center-post with a reduced extension thereabove, and said shaft also embodying a screw-threaded section and a lower plain section; a follower on the operating shaft screw-threaded section having axially aligned bearing-pins; apertured brackets projecting from the lifter-component for reception of the follower bearing pins, and said follower also including spaced guide eyes; a stabilizer unit embodying parallel portions engaged through the guide eyes, and said unit being rigidly secured to the center-post and inclined branches of the triangulate stand; and actuator mechanism carried by the operating shaft, outwardly of its screw-threaded section, whereby said shaft is rotatable to effect inclined elevation of an article of furniture relative to its supporting surface and return thereto.

2,650,796
DRAWWORKS FEED CONTROL
James G. Abraham, Laguna Beach, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application February 9, 1948, Serial No. 7,237
9 Claims. (Cl. 255—19)



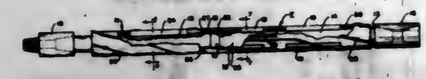
1. In a rotary drilling rig having a rotary machine and a spooling drum for a tensioned cable, the combination of: a work member operatively connected with the spooling drum and subjected to a torque load proportional to the tension of the cable; brake means including interengaging friction discs adapted to prevent rotation of the work member, said brake means including coaxial wedging members operative to effect engagement of the friction discs; a control element mounted coaxially of the work member operatively connected to move the wedging members to non-wedging position and thereby permit the work member to rotate in synchronism with the control element; and means for turning the control element at a speed proportional to the speed of the rotary machine.

2,650,797
COMBINATION BUMPER SUB AND SAFETY JOINT UNIT
Kendall R. Stohn, Powell, Wyo.
Application March 20, 1950, Serial No. 150,647
7 Claims. (Cl. 255—27)



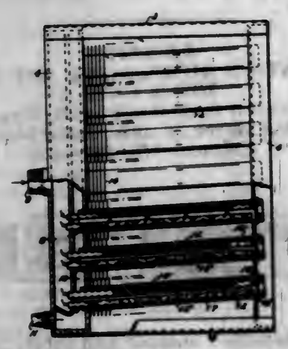
1. A combination bumper and safety joint unit for inserting between portions of a drilling string, said unit comprising a mandrel connectable with one portion of the string and being provided with threads over a considerable length thereof, a barrel for surrounding the mandrel in radial spaced relation, a sub at each end of the barrel having an anvil portion positioned inwardly of the inside wall of the barrel, one of said subs being arranged for connection with the other portion of the string and having a threaded bore into which the mandrel can be screwed in the direction of drilling rotation of the string to thereby rigidly connect the unit in the string, a nut threaded on the mandrel and positioned within the barrel between the anvil portions of the subs, and means for mounting the nut for sliding movement with respect to the barrel but not relative rotation with respect thereto, said nut being of a length considerably less than the distance between the anvil portions.

2,650,798
KEY SEAT TOOL FOR WELL DRILLING
Kendall R. Stehn, Powell, Wyo.
Application October 22, 1949, Serial No. 122,986
9 Claims. (Cl. 255—77)



1. In a well drilling tool, a mandrel for connection in drill string, sleeve means mounted thereon for rotation therewith but permitting the mandrel to have relative longitudinal movement with respect thereto, said sleeve means being slit to permit expansion, cooperating wedging surfaces on the mandrel and sleeve for expanding said sleeve means when the sleeve means is held against longitudinal movement and the mandrel is caused to move longitudinally relative to the sleeve means, and means for limiting the extent of relative longitudinal movement of the mandrel and the sleeve means causing expansion of the sleeve means, said last named means including a second sleeve and a shoulder on the mandrel with the second sleeve interposed between the shoulder and the said slit sleeve means.

2,650,799
HEAT EXCHANGER
Lawrence H. Fritzberg, Syracuse, N. Y., assignor to Acrodin Corporation, Syracuse, N. Y., a corporation of New Jersey
Application August 11, 1950, Serial No. 178,785
2 Claims. (Cl. 257—146)



1. In heating apparatus for heating air or other gaseous fluid, the combination of a plurality of return tubes extending across the path of air through the apparatus, a supply header, means for supplying heating fluid to the supply header, a return header connected to the tubes for removing condensate, each return tube containing two distributing tubes connected to the supply header and extending longitudinally thereof, one distributing tube having spaced orifices throughout its length and having an open end for passage of heating fluid into the return tube, the second distributing tube being free of orifices throughout its length and having an open end for passage of heating fluid into the return tube, said second distributing tube being placed above said first distributing tube within the return tube.

2,650,800
WATER COOLER
Halsey W. Taylor, Warren, Ohio, assignor to Halsey W. Taylor Company, Warren, Ohio, a corporation of Ohio
Application April 10, 1950, Serial No. 154,954
2 Claims. (Cl. 257—130)



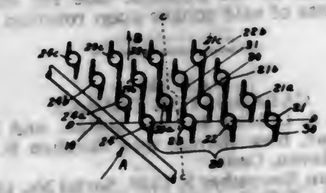
2. A pre-cooler device for a drinking fountain, comprising, an upright drain pipe, a supply conduit for drinking water having a coiled portion disposed in upright relation within said drain pipe, said coiled portion having a laterally extending upper terminal portion and a generally coaxially extending lower terminal portion, a coupling threaded to the upper end of said drain pipe and having an opening in its wall through which said upper terminal portion passes, a deflector collar fitting closely within said coupling above said opening and having an inner peripheral discharge lip overlying the upper end of said coiled portion, and an elbow threaded to the lower end of said drain pipe and having an opening in its wall and in general alignment with the axis of said coiled portion and through which said lower terminal portion passes, whereby said pre-cooler device may be assembled by disposing said upper terminal portion through said coupling opening, disposing said drain pipe over said coiled portion and threading said drain pipe to said coupling, and disposing said lower terminal portion through said elbow opening and threading said elbow to said drain pipe.

2,650,801
HEAT EXCHANGER
Thomas A. Cellito, Newark, N. J.; Michael B. Cellito, executor of said Thomas A. Cellito, deceased
Application October 11, 1949, Serial No. 120,640
3 Claims. (Cl. 257—241)



3. A conduit adapted to be placed in juxtaposition to a circular companion pipe laterally of the latter in surface-to-surface relation therewith, said conduit having a longitudinally extending re-entrant peripheral surface portion forming a recess to receive a longitudinally extending peripheral surface portion of the companion circular pipe, said re-entrant surface portion being cylindrically concave for contacting a cylindrical surface portion of the companion pipe, said conduit and said pipe being conterminous and adjacent to each other to effect a direct heat exchange therebetween through said portions for the length of said conduit and said pipe, said conduit comprising a plurality of conduit lengths, the latter having provisions to be joined in end-to-end relation, and coupling means for interconnecting said conduit lengths, said coupling means comprising a coupling member having sleeve portions having the same cross-sectional outline as said conduit lengths, each of said sleeve portions being insertably engageable in one of the adjacent ends of a pair of said conduit lengths, and a raised portion between said sleeve portions in abutment with the confronting marginal portions of said adjacent ends, said raised portion having the same cross-sectional outline as said conduit lengths and being continuously flush therewith.

2,650,802
COUNTERCURRENT HEAT EXCHANGER
André Huet, Paris, France
Application September 8, 1948, Serial No. 48,179
In France September 19, 1947
1 Claim. (Cl. 257—248)



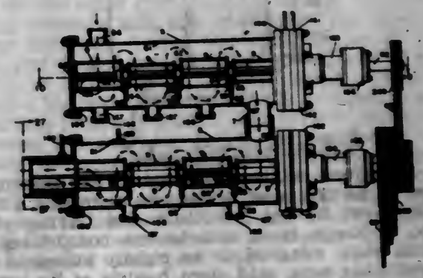
In a heat exchange bank positioned to intercept an ascending stream of fluid which approaches the bank obliquely from one side of the bank below the latter; said bank comprising a plurality of individual looped elements disposed in superposed relation in parallel planes located generally transverse of general direction of flow of the fluid stream flowing through the bank and each consisting of a number of similarly spaced parallel tube lengths located in a row inclined slightly from the horizontal and having their contiguous ends interconnected by return bends for series fluid flow from an inlet tube at one end of the row to an outlet tube at the end of the row from which the stream of fluid approaches the bank with said superposed elements progressively offset in a direction toward the approaching fluid stream by increments substantially equal to one half the tube spacing in each row to stagger said tubes and dispose the several outlet tubes in a row inclined substantially from the vertical at that side of said bank from which the ascending fluid approaches and confronting the stream of fluid approaching the bank; inlet and outlet headers to which the lowest and highest tubes respectively of each element are connected; and longitudinally extending fins projecting from said tubes at substantially diametrically spaced points and so oriented vertically that the distal ends of fins on the respective tubes in alternate rows aline and are substantially in contact to form vertical flow directing baffles within said bank causing the fluid stream to change from a direction of flow normal to the plane of the outlet tubes of said elements and ascend substantially vertically through the back to contact different tube lengths of the respective rows forming each successively encountered element as the stream ascends through the bank.

2,650,803
FLUID-COOLED BLADE AND HEAT EXCHANGE MEANS THEREFOR
Hans Rosskopf, Decize, Nievre, France, assignor to Hermann Oestrich, Decize, Nievre, France
Application June 12, 1951, Serial No. 231,103
In France March 2, 1950
10 Claims. (Cl. 257—260)



1. The combination of an elongated blade comprising a root portion and a sleeve portion projecting upwardly from said root portion, said root portion having a central recess extending downwardly from its upper face, and marginal passage therethrough for ingress of an inwardly directed flow of cooling fluid into said sleeve portion; means in said sleeve portion providing a central obstacle in the upper part thereof, so as to leave an annular passage for cooling fluid between an upper portion of said means and the inner surface of said blade sleeve portion, said means having a lower thick portion of considerably less width than said upper portion, adapted and arranged to project into said recess; and means for securing said lower portion of said obstacle means in said recess.

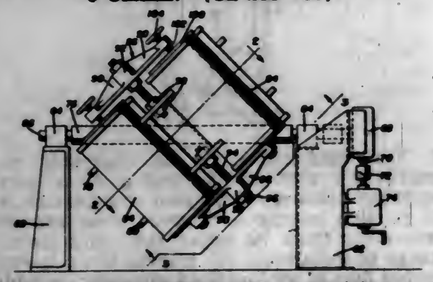
2,650,804
MACHINE AND PROCESS FOR PRODUCING LATEX FOAM CONTINUOUSLY
John Marco, Wilmington, Del., assignor to Marco Company, Inc., Wilmington, Del., a corporation of Pennsylvania
Application September 13, 1950, Serial No. 184,627
17 Claims. (Cl. 259—6)



1. A latex foam generator comprising in combination, a frame, a plurality of mixing chambers on the frame for intermingling latex ingredients and air in consecutive order therein, a plurality of meshed propellers rotating in said chambers in synchronism with each other to stir the intermingled ingredients intimately and continuously, said chambers including outlets for the ejection of the mixed material therefrom, in a continuous flow, means for supplying additives

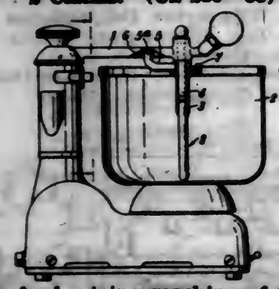
to the material to promote physical and chemical actions therein in predetermined sequence and degree, said means being mounted on said frame adjacent to said chambers, and pump means on the frame for forcing the ingredients and end material from the machine in condition to be carried to another extraneous location for predetermined uses and purposes, said propellers including bar blades rotating parallel to the longitudinal axis of the chambers and held out on spiders so as to thrash through said ingredients concentrically.

2,650,805
ROTARY BLENDER
Alfred J. Schaefer, Stroudsburg, Pa.
Application November 7, 1951, Serial No. 255,248
6 Claims. (Cl. 259—57)



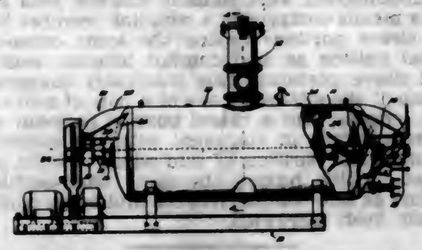
1. A rotary tumbling mill comprising a rotatable shaft, a carriage diagonally mounted on said shaft, seats on said carriage, a plurality of containers mounted on said seats with the geometric centers of said containers each displaced from the axis of said shaft, said containers being disposed in pairs about said shaft forming couples.

2,650,806
DOUGH MIXER WITH HOOK ATTACHMENT
Edward Hooper, South Shields, England
Application November 15, 1951, Serial No. 256,478
In Great Britain September 26, 1950
2 Claims. (Cl. 259—33)



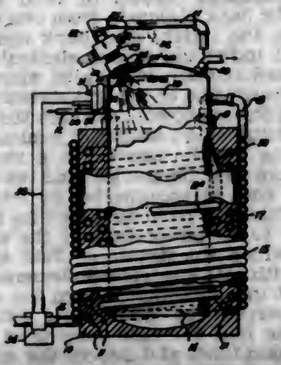
1. In a food mixing machine of the kind referred to having a swinging arm overlying a rotatable bowl having a bottom and having side walls; a dough hook attachment comprising a vertical stem adapted to be rigidly attached to the swinging arm, said stem having at its lower end a radial extension in the form of a hook terminating adjacent the bottom of the bowl, which extension at its outer end is curved upwards substantially in accordance with the wall of the bowl; a spindle carried by said swinging arm; the vertical stem of the dough hook being hollow and adapted to pass over the spindle; means for holding the stem on the spindle; and means for maintaining the hook from rotation relatively to said spindle.

2,650,807
DRY RENDERING COOKER
Frank J. Bitek, Chicago, Ill., assignor to The Globe Company, Chicago, Ill., a corporation of Illinois
Original application December 6, 1946, Serial No. 714,542, now Patent No. 2,602,381, dated July 15, 1952. Divided and this application October 10, 1951, Serial No. 250,660
8 Claims. (Cl. 259—108)



1. A paddle for agitating the contents of a dry rendering cooker having a central shaft therein rotatable in opposite directions, comprising an arm for being supported at its inner end on said shaft, said arm having adjacent its outer end a V-shaped nose portion at one side and a slanting cam portion at the opposite side for engaging the contents of said cooker upon rotation of said shaft.

2,650,808
CARBONATOR COOLER
Abraham J. Cohen, Samuel Levine, and Morris Caminear, New Haven, and Stephen S. Price, North Haven, Conn.
Application November 9, 1950, Serial No. 194,962
1 Claim. (Cl. 261—11)



A carbonator cooler of the class described comprising a refrigerated block consisting of a solid cast body, a refrigerating coil embedded within said block, said refrigerating coil having an inlet and outlet means exteriorly of the block, said block having a socket closed at one end and open at the other end, a tank fitted in said socket and projecting beyond the open end of said block, an exterior primary stage water cooling coil encircling the exterior face of said block and snugly fitting thereagainst, a secondary water cooling coil embedded within said block in close proximity to said socket and tank, the refrigerating coil being interposed between the exterior primary stage water cooling coil and the embedded secondary water cooling coil, the primary and secondary water cooling coils being connected in series, an inlet means connected to one end of the primary coil, a water spray discharge nozzle connected to the discharge end of said secondary coil, said nozzle being carried by the outer end of said tank outwardly of said block, means for supplying carbon dioxide to said nozzle in a manner whereby a mixture of a water spray and carbon dioxide is discharged into the upper end of said tank for a third stage of cooling through a single fitting upon said tank, a level control device carried within the outer end of said tank and inwardly spaced relative to said nozzle in the path of the spray discharge of said nozzle and above said refrigerated block to maintain a proper level of storage of carbonated water within the tank, and a water pump connected to said primary coil and controlled by said level control device for controlling the supply of water to said primary coil.
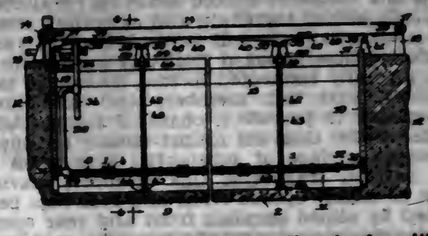
2,650,809
BUBBLE CAP AND RISER ASSEMBLY
Lee Paul Wanzink, Altadena, and Charles L. Haynes, Flintridge, Calif., assignors to C. F. Braun & Co., Alhambra, Calif., a corporation of California
Application September 26, 1949, Serial No. 117,906
5 Claims. (Cl. 261—114)



1. In a bubble cap and riser assembly for use on an apertured tray plate, the combination of: a riser, a bubble cap supported by the riser and provided with an opening, a hold-down member extending within the riser and having a stem portion slidably received in said opening, the hold-down member having projecting foot elements extending laterally beyond the lower portion of the riser to underlie the tray plate, and a cam element pivotally mounted on said stem portion of the hold-down member, the cam element having a cam surface engaging the upper surface of the bubble cap for moving the hold-down member relative to the bubble cap, the cam surface being provided with a series of rounded projections cooperating with a protuberance on the bubble cap to maintain the parts in operative position.

2,650,810
MEANS FOR RAISING AND LOWERING DIFFUSER TUBES
Carl H. Nordell, Palm Springs, Calif.
Original application February 26, 1947, Serial No. 730,931, now Patent No. 2,585,261, dated May 29, 1951. Divided and this application January 27, 1951, Serial No. 208,214
9 Claims. (Cl. 261—121)

3. In a diffusing system, the combination of a tank, vertically extending channels positioned adjacent opposite walls of said tank, a vertically movable member mounted in each of said channels, a diffuser tube positioned between said channels, means rigidly secured to one end of said diffuser tube connecting said tube to the vertically movable member in the adjacent channel, a tension spring connecting the opposite end of the tube to the vertically movable member in said other channel, means exterior to said tank for supplying an aeriform body under pressure to said tube, a flexible conduit connecting said tube to said pressure means, and means for raising



and lowering said tube in the tank without breaking the connection between said tube and said pressure means.

2,650,811
TILTING ARRANGEMENT FOR SHORTWALL COAL CUTTING MACHINES
Charles F. Osgood, Franklin, Pa., assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application June 17, 1947, Serial No. 755,054
4 Claims. (Cl. 262—30)

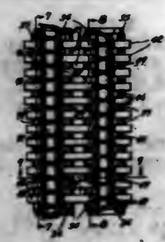


1. In combination, a shortwall coal cutting machine of the floor type having a frame whose bottom is adapted to rest on the floor of a mine, a cutter bar projecting horizontally lengthwise of said frame and an endless cutter chain guided for circulation about the margin of the cutter bar for cutting a horizontal kerf near the floor level, said machine having the bottom of its frame transversely recessed at its front and rear ends with said recesses extending beneath said cutter bar and cutter chain, a bottom skid having transverse front and rear floor engaging portions rigidly connected by longitudinal side frame portions, said portions providing an open center within said skid, said transverse floor engaging portions when the machine is resting on its bottom on the mine floor received in said transverse frame recesses with the bottom of the machine frame disposed within the open center of said skid, and means for pivotally mounting said machine on said skid for bodily tilting movement relative thereto about a generally horizontal axis including power operated jack devices connected between the machine frame and said skid and means for operating said jack devices to exert an upwardly directed force on the machine frame to tilt the machine about said axis relative to said skid to incline the machine bottom relative to the mine floor thereby to change the angle in altitude of said cutter bar.

2,650,812
DISINTEGRATING AND CONVEYING CHAIN
Joseph F. Joy, Pittsburgh, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 29, 1949, Serial No. 84,128
5 Claims. (Cl. 262—33)

1. A disintegrating and conveying chain of the relatively flat and wide endless mat type espe-

cially designed for mining purposes, comprising a series of relatively narrow, elongated transverse chain link members spaced apart in parallelism longitudinally of the chain and extending crosswise substantially the full width of the chain and a series of closely spaced relatively narrow chain links pivotally connected to said transverse link members, said link members and said links cooperating to provide a chain of substantially greater width than its height having an upper conveying surface of substantial area, each of said parallel transverse link members having series of closely spaced front and rear lugs perforated by alined parallel, front and rear openings for receiving elongated hinge pins, said links fitting closely between said lugs and pivotally engaging said hinge pins, said parallel transverse link members each having a transverse guideway

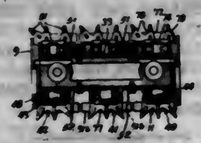


extending lengthwise thereof completely thereacross and including parallel front and rear guide flanges at the outer surface thereof, elongated cross bars having lateral guides freely insertable from a side of the chain endwise within said guideways in engagement with said flanges into coextensive relation with said transverse link members and each cross bar having a series of laterally spaced disintegrating teeth distributed along its length at the outer surface of the chain, and cooperating releasable means carried by said cross bars and said link members for securing said cross bars in position on said link members to prevent endwise displacement thereof from said guideways and releasable at will to permit free removal of said cross bars in any chain position without dismantling said link members, links and hinge pins.

2,650,813
DISINTEGRATING AND GATHERING CHAIN STRUCTURE

Lester G. Rollins, Meriden, N. H., and Arthur Lee Barrett, Franklin, Pa., assignors to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application August 6, 1949, Serial No. 108,933
12 Claims. (Cl. 262—33)

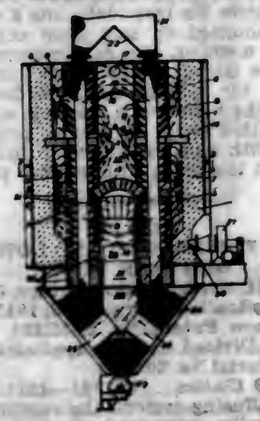


1. An endless disintegrating and gathering chain structure having its upper run movable along an upper plane conveying surface of a guide frame about which the chain structure is adapted to circulate in an orbital path, said chain structure comprising a series of parallel endless chains having base portions guided by said frame, the guided base portions of said chains arranged in spaced apart parallelism longitudinally of said plane conveying surface with the base portions of the outermost chains spaced inwardly from the outer sides of said conveying surface and the adjacent sides of the base portions of the chains spaced relatively widely apart, said chains comprising a series of articulated chain blocks spaced at intervals along the length of the chains and each comprising a relatively narrow, laterally elongated, cross bar portion having laterally spaced socketed lugs integral therewith for receiving disintegrating teeth and disposed in staggered relation at different angles on different blocks, said cross bar portions of said blocks being of uniform length, certain of said cross bar portions having lateral conveyor projections extending laterally at the ends of said cross bar portions beyond the block bases and the outermost lugs, said lateral conveyor projections at the outer sides of the outer chains extending laterally over the plane conveying surface, and said conveyor projections at the adjacent sides of said chains extending over the conveying surface across the spaces between the chains with their adjacent ends disposed close together, said cross bar portions having transverse web-like portions between the laterally spaced lugs thereof whereby said lateral conveyor projections and said transverse web portions cooperate with said lugs to provide said cross bar portions of said blocks, and said cross bar portions of the several chains arranged in end to end alignment and cooperating to provide conveyor flights movable along the plane conveying surface of the guide frame to move material disintegrated by said teeth longitudinally along such surface.

2,650,814
KILN

Peter Howden, Misterton, via Doncaster, England, assignor of one-half to Ernest Newell & Company Limited, Misterton, via Doncaster, England

Application November 1, 1950, Serial No. 193,268
In Great Britain November 23, 1949
5 Claims. (Cl. 263—29)

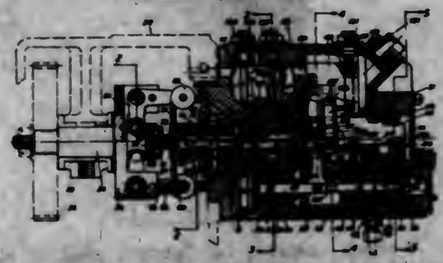


1. A kiln consisting of a unitary structure comprising an outer casing, a main body of refractory material enclosed by the casing, a central vertical chamber formed in the body and divided into a lower portion constituting a combustion chamber and at least one upper portion constituting a central flue, a furnace arranged within the combustion chamber, outer upper and lower flues formed in the body on each side of the central chamber, vertical unobstructed passages for confining a falling charge of material, said passages being disposed between the central chamber and the outer flues and each having at least inner and outer opposed louvred walls providing wide ducts for the passage of flue gases, the inner walls being contiguous with the central chamber and the outer walls with the outer flues, divisions in the louvred walls of each passage to form in the passage a lower calcining portion through which flue gases can flow directly from the furnace through the passage to the adjacent outer lower flue, the louvres of the calcining portion being of refractory material, an intermediate preheating portion through which the flue gases can flow from the outer lower flue through the passage to the central flue, and an upper drying portion through which the flue gases can flow from the central flue through the passage to the outer upper flue, a feed hopper surmounting the main body and leading directly to the vertical passages for supplying material continuously to the passages, a discharge hopper below the main body and communicating directly with the passages for continuously receiving the material gravitating down the passages, and means for inducing the flow of flue gases from the furnace through the calcining, preheating and drying portions of the passages.

2,650,815
SPEED GOVERNOR

Geoffrey Bertram Robert Fulldon, Lincoln, and Raymond Ernest Wigg, Ealing Common, London, England, assignors to Ruston & Hornsby Limited, Lincoln, England, a British company

Application September 18, 1950, Serial No. 185,372
In Great Britain September 21, 1949
7 Claims. (Cl. 264—7)

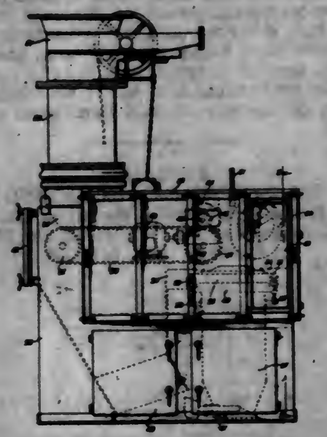


1 In a governor for governing the speed of a prime mover, a hydraulic servo-motor for controlling the power-output of the governed prime mover and comprising a movable and an immovable member together defining a working space of variable volume; valve means controlling the entry and discharge of hydraulic fluid from said working space and comprising a ported valve body, a ported valve-sleeve slidable and rotatable therein and a valve-piston slidable axially in said sleeve; spring-loaded centrifugal means for controllably displacing the valve-piston axially including a flyweight carrier rotatable by the governed prime mover coaxially with the valve-piston and -sleeve, flyweights pivotally mounted thereon and a speeder spring, which latter engages the valve-piston and besides controlling its axial displacement prevents it from rotating; and hydraulic- and spring-means for controllably displacing the valve-sleeve axially, including means confining a column of hydraulic fluid constituting a motion-transmitting connection between the movable member of the servo-motor and the valve-sleeve, adjustable means providing a variable leak from and to said column and a spring connecting the valve-sleeve to the flyweight-carrier, said last-named spring on the one hand being resiliently yielding in a plane containing the common axis of the valve-sleeve and flyweight-carrier, thus enabling the valve-sleeve to be displaced axially in either sense, while tending always to return said sleeve to the same position, and on the other hand being substantially rigid in a plane perpendicular to said axis to constitute a driving connection by which the flyweight-carrier imparts rotation to the valve-sleeve.

2,650,816
PRESSURIZED COAL SCALE

Arthur J. Stock, Cleveland, Ohio

Application March 27, 1951, Serial No. 217,716
7 Claims. (Cl. 265—27)



1. An apparatus for batch-continuous weighing of aggregate material that comprises an air-tight housing divided into an air-tight hopper compartment and an air-tight weighing mechanism compartment, said hopper compartment normally being under other than atmospheric pressure, a weigh hopper positioned in said hopper compartment to receive and discharge said aggregate material as it passes through said compartment, a scale mechanism located in said weighing mechanism compartment, operating connections for said scale mechanism and said hopper extending between said compartments, means responsive to said scale mechanism for operating said hopper, means to supply air to said weighing mechanism compartment under a pressure greater than the pressure in said hopper compartment at a limited rate, and a check valve arranged to permit air to flow from the weighing mechanism compartment to said hopper compartment at a rate sufficient to balance the pressure in the two compartments.

2,650,817
SPRING ARC SUPPORT

Raymond P. Cover, Springdale, Conn.

Application July 27, 1948, Serial No. 40,980
6 Claims. (Cl. 267—48)

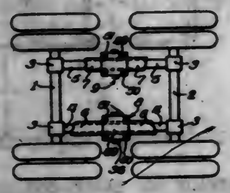
6. A spring arc support for supporting and reinforcing a laminated leaf spring of the type having a series of leaves graduated in length with the longest leaf terminating in an eye, comprising a spring-like bar having one end applied directly against a surface of substantially the shortest leaf of the spring where substantially

all the leaves of said spring are assembled, clamping means securing said end of said spring are support to said laminated leaf spring with the said end applied against said shortest leaf, the other end of the spring-like bar being applied to the longest leaf of said laminated spring, the bar



portion between said ends being spaced from said spring, a clamping means at the said other end of said bar securing said bar relatively to said longest leaf, and means integral with said second clamping means adapted to abut the eye of the spring for preventing said bar from sliding in the direction of the eye of said laminated spring.

2,650,218
CENTER SPRING MOUNTING
William E. Martin, Kewanee, Ill.
Application May 24, 1949, Serial No. 95,070
11 Claims. (Cl. 267—53)



1. A center spring mounting to connect a vehicle chassis spring with a wheel carriage comprising a ring housing for connection with said carriage and having an oppositely outwardly flaring opening therein, a divided yoke for connection with said spring and having the parts thereof disposed to straddle said ring housing adjacent the flared openings thereof, a stud connecting the yoke parts and extending through said housing opening, and a coacting pair of rubber sleeves interposed between the stud and said ring housing to cushion road and load shocks, said sleeves each extending to the midportion of said sleeve opening and flaring externally outwardly to snugly nest within said ring housing opening, said stud including means to urge said yoke parts against the sleeves to force the latter into fixed frictional contact within said ring housing, and said stud being polygonal in cross section to prevent relative rotation between said sleeves and said stud.

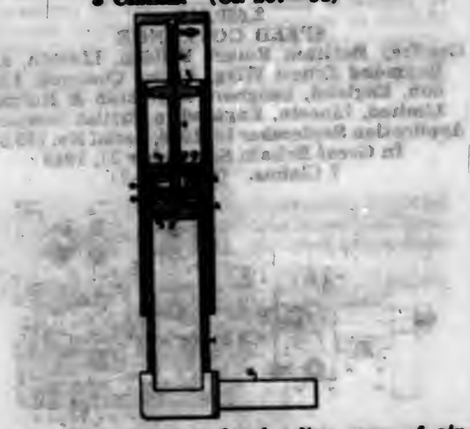
2,650,219
MECHANICAL SPRING
Owen W. Marlow, Rock Island, Ill.
Application May 12, 1948, Serial No. 26,675
2 Claims. (Cl. 267—57)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A spring comprising a plurality of co-extensive tubular continuous-walled elements telescopically fitting one inside the other, said elements being rigidly united at each end only, one of said elements being stressed in one direction relatively to the remaining said elements in the undeflected position of said spring and another of said elements being stressed in the opposite



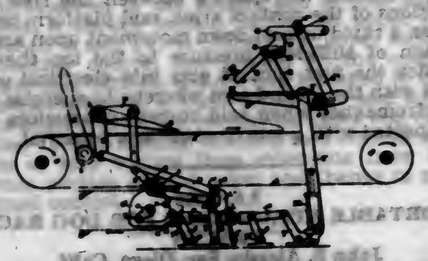
direction relatively to the remaining elements in the undeflected position of said spring.

2,650,220
LIQUID SPRING SHOCK-ABSORBER
René Lucien Levy, also known as René Lucien, Paris, France, assignor to Société d'Inventions Aeronautiques et Mecaniques S. I. A. M., Geneva, Switzerland, a corporation of Switzerland
Application May 26, 1948, Serial No. 29,249
In France June 6, 1947
3 Claims. (Cl. 267—64)



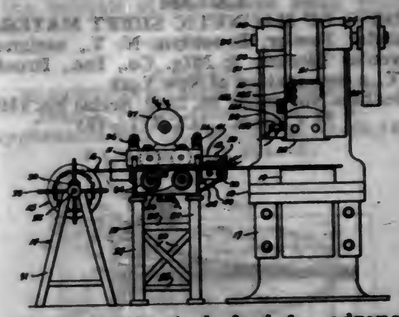
1. A shock-absorber for landing gear of aircraft of the type in which each wheel includes an axle, including a cylinder for containing liquid directly connected to and extending at right angles with respect to the axis of the axle, said cylinder constituting a compression chamber receiving liquid, the elasticity of which upon compression supplies resilient resistance, said cylinder having a wall thickness sufficient to confine the liquid under high pressure and sufficient to resist bending under impact shocks occasioned upon landing of the aircraft, a piston within the cylinder and movable therein, a rod extending from the piston projecting beyond the upper end of the cylinder and removably fixed at its upper end with relation to the aircraft, said piston constituting a liquid compression member partitioning the cylinder and operable upon movement to vary the volume thereof, means providing an apertured insert movably arranged within the cylinder in fixed relation thereto with respect to the axial extent thereof constituting a closure at one end of the cylinder, said piston being inwardly of the closure and the piston rod passing therethrough, said closure having a drainage channel between the opposite faces thereof and a closure plug for said channel on the face of the closure opposite to the piston.

2,650,221
FOLDING MACHINE FOR LAUNDRY PURPOSES
Edward John Hewlett, Edgware, England, assignor to Isaac Braithwaite & Son Engineers Limited, Kendal, England, a corporation of Great Britain
Application April 10, 1950, Serial No. 154,975
In Great Britain April 9, 1949
5 Claims. (Cl. 270—68)



1. In an apparatus for folding sheet material including a support, conveyer means, folding means to which a sheet material is fed by said conveyer means, and a set of pivoted fingers located above said conveyer means and adapted to be pivoted from a lower position to a raised position by contact with a piece of sheet material transported by said conveyer means, a time delay mechanism, comprising in combination, an epicycle gear mounted on said support and including a first sun wheel, a second sun wheel, and planet wheel means; drive means for rotating said planet wheel means; means urging said second sun wheel to turn in one direction; an adjustable stop limiting turning of said second sun wheel in said one direction; stop means mounted on said support movably between inoperative position and operative position, and in operative position engaging and arresting said first sun wheel, and operatively connected to said set of pivoted fingers so as to be moved to said operative position when said set of pivoted fingers are pivoted to said raised position by a piece of sheet material, arresting of said first sun wheel causing said planet wheel means to rotate said second sun wheel in an opposite direction against the action of said spring means; a pin connected to said second sun wheel eccentric to the axis of rotation thereof so as to rotate therewith; a rod mounted on said support movably in a substantially horizontal direction from a first to a second position; a catch on one end of said rod adapted to be engaged by said pin during rotation of the same so as to move said rod from said first to said second position; holding means engaging and holding said rod in said second position; operating means operatively connecting said rod to said folding means and actuating said folding means when said rod is moving to said second position, the weight of said folding means tending to retain said rod in said first position; first release means releasing said stop means when said holding means hold said rod causing said second sun wheel and said pin to rotate in said one direction to their initial position; and second release means operatively connected to said set of pivoted fingers and actuated by the same to release said holding means permitting return of said rod to said first position when said piece of sheet material has passed from said set of pivoted fingers and said set of pivoted fingers move to said lower position.

2,650,222
FORMING PRESS AUTOMATIC FEED
John Wynn, New Castle, Pa., assignor, by mesne assignments, to Frank Leonard, New Castle, Pa.
Application January 16, 1948, Serial No. 2,736
10 Claims. (Cl. 271—3.4)



2. An automatic stock feed for advancing a strip of stock a selected distance at predetermined intervals to a forming press comprising a frame, feed and pressure rollers supported on said frame for the passage of said strip of stock therebetween, continuously operating power means, means including a friction clutch drivingly connecting said power means with said feed rollers, electro-magnetic means operatively connected with said clutch effective when energized to disengage said clutch, metering means positioned to engage and measure stock passing said feed rollers and operative to periodically energize said electro-magnetic means to disengage said clutch and stop said feed, switch means adapted to be operated by a press to which said stock is supplied to de-energize said electro-magnetic means and restart said feed, and brake means operative between said frame and said clutch to engage said clutch and hold said feed against movement while said clutch is disengaged.

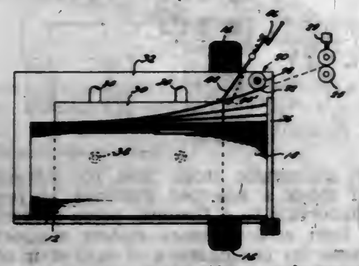
2,650,223
DEVICE FOR INTERMITTENTLY STOPPING THE MOTION OF A STRIP OF MATERIAL
Jean Louis Chambon, Paris, France, assignor to Société à Responsabilité Limitée dite: Société d'Etudes de Machines Spéciales, Paris, France
Application September 26, 1950, Serial No. 186,706
In France October 1, 1949
2 Claims. (Cl. 271—2.4)



1. In a device for producing intermittent stops in the motion of a strip of material fed continuously from feeding-rollers driven at a constant speed, by the means of an idle guiding-roller periodically actuated in a swinging movement in order to cause corresponding periodic variations in the linear speed of the portion of strip which flows from the outlet side of said guiding roller and to produce consequently intermittent stops of said portion of strip, a shaft driven synchronously with the feeding-rollers, an eccentric carried by said shaft, a rocking member having its middle portion pivoted on said eccentric, an idle guiding roller mounted on

one end portion of said rocking member, a longitudinal slideway on the opposite end-portion of the same, and a guide member pivotally mounted around a fixed axis and engaging said slideway of the rocking member.

2,650,824
FEEDING OF MAGNETIC SHEET MATERIAL
Alexander Fowler, Brooklyn, N. Y., assignor to Hercules Electric & Mfg. Co., Inc., Brooklyn, N. Y., a corporation of New York
Application November 26, 1949, Serial No. 129,662
24 Claims. (Cl. 271—18)



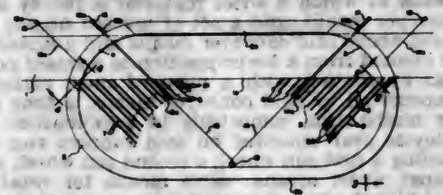
1. Apparatus for separating and successively feeding ferromagnetic sheets from a stack of sheets, said apparatus comprising a support for the stack of sheets, an induction coil extending entirely around the stack of sheets, with the axis of the coil extending generally in the direction of the plane of the sheets and generally perpendicular to the desired direction of separation of the sheets, means to energize the coil in order to raise and separate the uppermost sheets of the stack, and feed means to receive and feed the uppermost sheet away from the coil and stack.

2,650,825
PAPER JOGGER
Harold E. Cooper, Tulsa, Okla.
Application April 20, 1950, Serial No. 157,059
1 Claim. (Cl. 271—89)



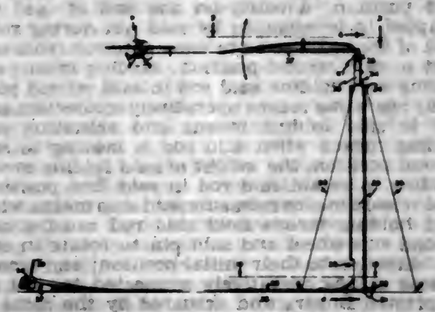
In a paper stack jogger, a rectangular casing having an open top, a cover for the open top of the casing and having a central opening therein, a platform positioned above the cover, a post depending from the platform through the said opening in the cover, a pair of spaced vertical guide pins secured in the bottom of the casing, a plate of an insulating material slidably engaged on the guide pins, an armature bar supported horizontally on the lower end of the post, an electromagnet supported on the plate beneath the armature bar, resilient means connected with the armature bar and urging movement of the armature bar away from the electromagnet, a block of an insulating material secured within the casing at one side of the electromagnet, a spring contact arm secured at one end to the block and having its other end engaged beneath the plate to support the electromagnet in position with respect to the armature bar to effect vertical jogging movement of the bar, the post and the platform upon intermittent energization of the electromagnet, a second spring contact arm also secured at one end to the block and having its other end disposed beneath the said other end of the first contact arm in spaced relation with respect thereto, the coil of the electromagnet and the contact arms being electrically connected in series with each other, means for connecting electric current conductors with the contact arms, and means operable from the outside of the casing for adjusting the spacing between the free end portions of the contact arms, said platform being given a rapid up and down movement upon application of sufficient pressure to the top thereof to flex the first contact arm into electrical contact with the second arm whereby to energize the electromagnet when said current conductors are connected with a source of electric potential.

2,650,826
PORTABLE ATTACHMENT FOR DOG RACE TRACKS
John S. Alessio, San Diego, Calif.
Application November 18, 1949, Serial No. 128,179
6 Claims. (Cl. 272—4)



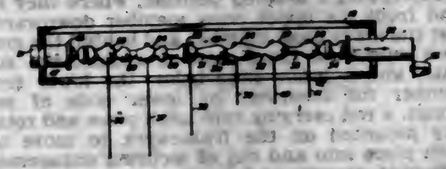
1. In a race track assembly, a primary race track, an elevated secondary race track crossing said primary race track, said secondary race track having a removable track section, said removable track section constituting said crossing area, said track section comprising rectilinear guide means for horizontally guiding said track section into and out of register with remaining portion of said secondary race track, whereby said primary race track may be used by removing said track section.

2,650,827
PYLON
Joseph R. Hamilton, Baker, Oreg.
Application January 21, 1953, Serial No. 267,371
7 Claims. (Cl. 272—31)



6. The combination of a model self-propelled device attached to a plurality of control lines, a manual control for operating said control lines, and a pylon for said control lines interposed between said manual control and said device, said pylon having a rotatable assembly, a tube in said assembly rotated with said assembly, a slidable bracket mounted in said pylon for up and down sliding motion, a rotatable member in engagement with said bracket, said member slidable on said tube and rotated by said tube whenever said assembly rotates, a plurality of composite control lines extending upwardly through said pylon, each control line including an upper section and a lower section, said upper sections connected with said device, one of said upper sections extending upwardly from said tube, a swivel element attached to the bottom end of this upper section, a bottom section having its upper end attached to said swivel element, an upper section of another control line located on the outside of said tube with its bottom end attached to said rotatable member, a lower section for said latter mentioned control line having its upper end connected to said slidable bracket, said bottom sections of said control lines extending from the bottom portion of said pylon and thence to said manual control.

2,650,828
VARIABLE RACING GAME APPARATUS
Anton F. Burkardt, New York, N. Y.
Application November 8, 1949, Serial No. 126,172
3 Claims. (Cl. 272—36)



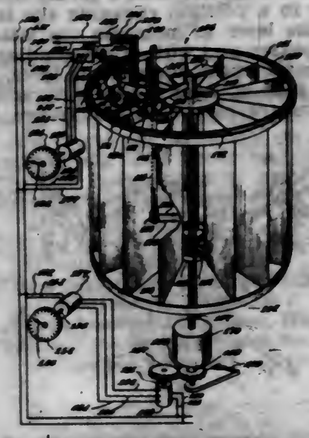
2. In a device of the character described, a base, a plurality of figures supported on said base and adapted to be moved thereover in substantially parallel paths, a rectangular casing supported on said base and extending transversely thereof, and means in said casing including a shaft and flexible members secured directly thereto and operatively connected to said figures for moving same as aforesaid at relatively variable linear speeds as said shaft is revolved at any given radial speed, said flexible members being wound around arcuate profiles on said shaft, each of said profiles being different from any other profile.

2,650,829
FLYING TARGET
Lynvell R. Jordan, Santa Monica, Calif., assignor to Jack B. Nethercutt, Los Angeles, Calif.
Application March 9, 1950, Serial No. 148,500
5 Claims. (Cl. 273—105.4)



1. A target of the character described having a unitary friable body with a substantially flat disc-shaped center, an annular flange joined to the periphery of the center and extending radially and axially therefrom, and an annular rim joined to the outer periphery of the flange and projecting axially therefrom, the exterior of the flange being substantially convex in form and having circumferentially spaced radially disposed notches of substantially equal width and depth therein extending continuously from where the flange joins the center to where the flange joins the rim and rendering the flange subject to disintegration when struck, the exterior of the flange having annular ribs thereon in stepped relation and concentric with the flange and the interior of the flange being smoothly curved.

2,650,830
ELECTRONIC MEMORY DEVICE
John T. Potter, Great Neck, N. Y.
Application May 19, 1949, Serial No. 94,146
2 Claims. (Cl. 274—4)

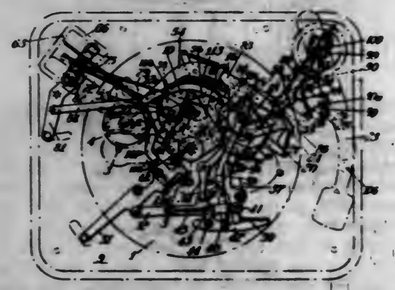


2. An information storing, selecting and reproducing system comprising, in combination, a cylindrical record magazine, a large number of parallel magnetizable record sound tracks disposed in circular columns and radiating rows in said magazine, a magnetic pick-up cooperative with any one of the sound tracks selected, a manually operable row selector, mechanism responsive thereto comprising a remote control transmission and torque amplifying follow-up mechanism for relatively shifting the magazine and the pick-up to a predetermined relation according to the row selected, a manually operable column selector, mechanism responsive thereto comprising a remote control transmission and torque amplifying follow-up mechanism for relatively shifting the magazine and the pick-up to a predetermined relation according to the column selected, and mechanism for relatively shifting the pick-up and the selected sound track, lengthwise of the sound track to utilize the information recorded in the selected sound track.

2,650,831
RECORD CHANGING MECHANISM FOR PHONOGRAPHS
Henry James Fortune and Edmund Walter Mortimer, Swindon, England, assignors to The Gerrard Engineering & Manufacturing Company Limited, Swindon, England
Application August 28, 1947, Serial No. 771,800
In Great Britain June 27, 1947
2 Claims. (Cl. 274—10)

1. In record changing mechanism of the type including a rotatable control device rotatable by the turntable drive mechanism and operatively disengaged from such mechanism during playing of a record, an impulse lever operatively associated with the device and operable to impart

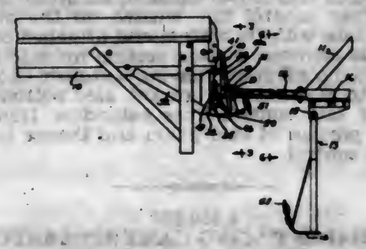
an initial rotation to the latter to drivingly connect the device to such mechanism, a pick-up arm, a pick-up lever connected to the pick-up arm for conjoint movement therewith, and means operable by the control device, when the latter rotates, to lift the pick-up arm, swing the latter to its off position, effect delivery of a new record to the turntable, and engage the pick-up arm with the groove of the new record, a latching and releasing arrangement for the impulse lever comprising, in combination, a trip lever having a first arm with a latch engageable with said impulse lever and a second arm directly engageable by said pick-up lever when the latter is swung inwardly as the pick-up arm moves into the record run-out groove, and a spring biasing said trip lever to a position engaging the latch with the impulse lever to maintain the latter in retracted position and with said second arm in the path of movement of the pick-up lever, whereby, when the pick-up lever is swung inwardly as the pick-up arm travels the run-out groove, the pick-



up lever will engage said second arm of the trip lever to swing the trip lever against the biasing action of the spring to release the latch from the impulse lever, a movably mounted "reject" lever having a movable end, said trip lever first arm having a projection engageable by said movable end whereby said "reject" lever may be moved to engage said projection to swing said trip lever to release said impulse lever to initiate rotation of said control device, a spring biased pivoted operator for the turntable driving motor control switch, a movable "start" and "stop" lever, a link pivotally connected to said "start" and "stop" lever and having a lost motion connection to said operator, said link having a bifurcation, said reject lever being pivoted intermediate its ends and having its other end engaged in said bifurcation, a pivoted trigger having an end engaged in a lost motion connection with said link and a latch surface, and a spring biasing said tirgger to a position engaging said latch surface with said operator in the switch closing position.

2,650,832
TRAILER HITCH
Horace D. Hume and John D. Wheeler, Mendota, Ill.; said Wheeler assignor to said Hume
Application April 9, 1951, Serial No. 219,992
3 Claims. (Cl. 280—33.15)

1. A trailer hitch comprising a tongue having means for attachment to a trailing vehicle, a horizontal cross piece pivoted on the front end of the tongue to turn in a horizontal direction, a framework having means for attachment to a towing vehicle, said framework comprising a stop plate against which the cross piece is aligned by movement of the framework toward the tongue, an upper cross member projecting rearwardly from the top of the stop plate, a lower cross member spaced below the upper cross member a distance several times the height of the cross piece and projecting rearwardly from the bottom of the stop plate, said cross members being joined by side guides which are spaced apart, at the lower cross member, a distance sufficient snugly to receive the cross piece therebetween and which diverge upwardly to the upper cross member, the guides and cross members forming with the stop plate a large, downwardly narrowing recess into which the cross piece may enter and be aligned with the stop plate, two latch prongs pivoted on the framework and spaced apart to receive the



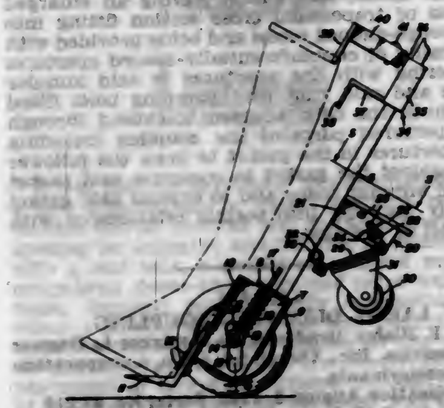
tongue between them, said prongs being movable between a raised position, above the upper cross member, and a lowered position, where they extend from the upper cross member downwardly past the lower cross member and behind the cross piece when the cross piece is against the stop plate, and a latch piece below the lower cross member for securing the lower ends of said prongs, a rod carrying said latch piece and rotatably mounted on the framework to move the latch piece into and out of securing engagement with said prongs, and means to secure the rod against rotation.

2,650,833
COUPLING DEVICE FOR VEHICLES
Ira M. Wells, Oakland, Calif., assignor to Spears Wells Machinery Company, Incorporated, Oakland, Calif., a corporation of California
Application June 26, 1952, Serial No. 295,650
9 Claims. (Cl. 280—33.44)



7. Means for coupling a spreader box to a dump truck or the like comprising, a main frame including two spaced channels having webs and legs with their webs facing, and having front and intermediate bottom cross members and a top cross member, and a first longitudinal slot formed in the forward end of each web, and a second longitudinal slot formed in the intermediate portion of each web, the rearward ends of said channels being fixed to the forward end of said spreader box, a coupling shaft passing through said first slots, a track wheel on each end of said coupling shaft and respectively operating between the legs of the respective channels for support of said coupling shaft, a substantially right-angled coupling arm mounted on each end of said coupling shaft and axially adjustable thereon and normally disposed in a dependent position, the forward portion of said front cross member having forwardly and downwardly inclined cam surfaces, cam levers having rollers and being fixed on said coupling shaft with said rollers cooperative with said cam surfaces, and manually operable retracting means having connection with said coupling shaft for raising said coupling arms to engage the front of the axle of the truck from beneath through the medium of said rollers riding up said cam surfaces when said coupling shaft is retracted.

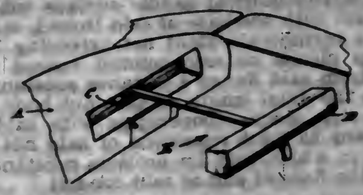
2,650,834
HAND TRUCK
Edwin P. Coval, Indianapolis, Ind.
Application December 16, 1949, Serial No. 133,230
2 Claims. (Cl. 280—47.2)



1. A hand truck including a pair of side plates having upper ends, front longitudinal edges and a pair of slots therein, a top plate cross-connecting said upper ends, load pick-up and supporting arms on said edges, a pair of ground wheels, an axle for said wheels traversing said slots and with respect to which said plates are tiltable forwardly and rearwardly for picking up and supporting a load, respectively, by said arms, a handle extending upwardly and rearwardly from said top plate for tilting said side plates, said slots being arcuate and oblique to said front edges of the side plates for floating movement of the axle arcuately transversely of said plates and longitudinally and obliquely of the handle to lower said plates and handle relative to the axle under the weight of a load on said arms, a pair of rods slidable in said top plate with end shoes thereon riding said axle, coil springs on said rods between said top plate and shoes and together with said rods, shoes and top plate yieldingly supporting said side plates on the axle, and a bottom step plate on said handle above said top plate to facilitate tilting of said side plates rearwardly.

2,650,835
PASSENGER PROTECTING FENDER ATTACHMENT FOR VEHICLE INSTRUMENT PANELS
Robert R. Gemmett, deceased, late of North Hollywood, Calif., by Faust R. Gemmett, executor, Burbank, Calif.
Application March 19, 1952, Serial No. 276,946
9 Claims. (Cl. 280—150)

1. In a fender attachment for the instrument panel of a motor vehicle, a guide tube formed with a longitudinally extending slot, a slide bar mounted for reciprocal movement in said tube, a buffer on one end of said slide bar, a sleeve loosely encircling said guide tube for sliding movement lengthwise thereof, said sleeve being formed with a longitudinal slot and having an inclined face extending along said slot, a bolt affixed to said slide bar and extending through the slots in said sleeve and tube, a head on said bolt arranged to have releasable wedge engagement with said inclined face, a spring pawl car-



ried by said bolt having an outer end adapted to frictionally engage said guide tube and also adapted to be seated on said sleeve, and spaced shoulders on said guide tube against which the ends of said sleeve are abuttable on advancing and retracting said slide bar to shift said sleeve relative to said spring pawl to place it in and out of operative relation to said guide tube.

2,650,836
WRITING PAD UNIT FOR AUTOMOBILE STEERING WHEELS
Frank Berman, Pewaukee, Wis.
Application June 30, 1950, Serial No. 171,355
6 Claims. (Cl. 281—12)



1. In a writing table engageable over the horn button of the steering wheel of a vehicle, the steering wheel having a peripheral groove about its free end, the combination of a disc plate including a central cutout section whereby the disc plate is adapted to fit over the horn button and to be engageable in the said groove, a bowl like element having an annular wall removably engaged with the disc plate and including a resilient flat top surface serving as a writing table and arranged for close spaced relation to the horn button when the disc plate is engaged with the groove of the steering wheel.

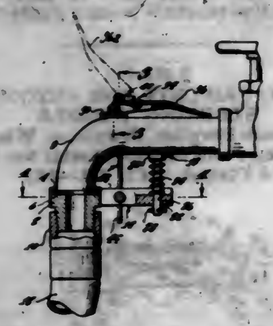
2,650,837
SADDLE NUT AND COUPLING
Marsden C. Smith and Otis G. Ely, Richmond, Va., assignors to The Ford Motor Box Company, Inc., Wabash, Ind., a corporation of Indiana
Application October 4, 1950, Serial No. 188,414
2 Claims. (Cl. 285—3)



1. In combination, a generally-cylindrical conduit having a radially-outwardly-extending flange at one end thereof, a coupling nut sleeved on said conduit and comprising a body formed with an axial bore therethrough, said bore being

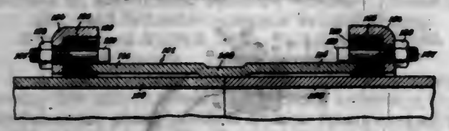
formed with an internal thread whose crest diameter slightly exceeds the diameter of said flange, stop means at the rear end of said body projecting radially inwardly beyond the crest of said thread for cooperation with said flange to limit forward movement of said nut relative to said conduit, a single lip projecting axially from the forward end of said body and formed to provide a part-cylindrical saddle surface substantially flush with the base of said thread, said lip having a peripheral extent not exceeding 180°, and stop means on said conduit spaced rearwardly from said flange a distance substantially equal to the axial length of said nut body, said conduit stop means cooperating with said nut stop means to limit retraction of said nut to a position in which said lip projects substantially beyond the flanged end of said conduit.

2,650,838
FAUCET CONNECTOR
Herbert E. Hirschland, Rahway, N. J.
Application February 21, 1951, Serial No. 212,169
4 Claims. (Cl. 285—168)



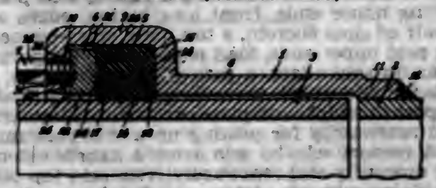
1. In a faucet connector, in combination, a connecting member having a seat adapted to bear against a faucet mouth, a lever pivotally connected at one end to said connecting member, a first clamping member carried at the opposite end of the lever and adapted to bear upward against the lower side of the faucet body, a second clamping member opposed to the first clamping member, and clamp operating toggle mechanism interconnecting the clamping members, one of said clamping members being a spring plunger yieldable in response to force exerted by the toggle mechanism.

2,650,839
LARGE DIAMETER COUPLING
Frederick T. Newell, Bradford, Pa., assignor to Dresser Industries, Inc., Cleveland, Ohio, a corporation of Pennsylvania
Application August 3, 1948, Serial No. 42,223
5 Claims. (Cl. 285—135)



2. A pipe coupling for large diameter pipe comprising a tubular member adapted to receive an end of a pipe section, said tubular member having a cylindrical outer surface, a radially-projecting annular flange at a free outer end of the tubular member, said flange having a plurality of circumferentially-spaced apertures lying substantially adjacent the outer surface of said tubular member, the outer end of the tubular member being beveled outwardly to provide a wedge-shaped gasket recess with the wall of the pipe, a follower ring of L-shaped cross section movable axially relatively to the pipe, the L-shaped ring having a substantially cylindrical portion adapted to overlie closely the outer edge of the annular flange of the tubular member, and an inwardly projecting substantially radial portion having a plurality of circumferentially spaced apertures registering with the apertures in said flange, said follower ring and flange defining a confined annular space at said end of said tubular member, an annular gasket adapted to fit between the annular flange of the tubular member and the follower ring and to fill said annular space, said gasket having an enlarged portion of trapezoidal cross section fitting into said wedge-shaped recess and being provided with a plurality of circumferentially-spaced apertures registering with the apertures in said annular flange and said ring, and clamping bolts fitted with nuts, the bolts adapted to extend through the apertured parts of the coupling including the apertures in the gasket to draw the follower ring against the gasket to compress said gasket in said annular space and to expand said gasket radially inwardly into sealing relationship with the wall of the pipe.

2,650,840
LARGE DIAMETER COUPLING
Roger E. Risley, Bradford, Pa., assignor to Dresser Industries, Inc., Cleveland, Ohio, a corporation of Pennsylvania
Application August 3, 1948, Serial No. 42,219
5 Claims. (Cl. 285—165)



1. In a pipe joint, a section of large diameter plain end resilient metallic pipe and a coupling comprising a resilient metallic one-piece tubular member adapted to receive an end of said pipe section, said tubular member having a wall thickness approximately equal to the wall thickness of the pipe and comprising a cylindrical portion having an inside diameter slightly larger than the outside diameter of the pipe, an annular wall portion projecting radially outwardly at an end of said cylindrical portion, a second cylindrical wall portion projecting axially from the outer periphery of said radial wall portion and a second annular wall portion projecting radially inwardly from the outer end of said second cylindrical portion, the inner peripheral edge of said second radial wall portion having a diameter slightly greater than the outside diameter of the pipe, said radial wall portions and second cylindrical wall portion together forming an annular inwardly-facing channel, an annular rubber gasket of approximately square cross section disposed in said channel and bearing on said first mentioned radial wall portion and second cylindrical wall portion, a gasket follower ring disposed between the gasket and said second radial wall portion, said second radial wall portion having a plurality of equally spaced tapped holes extending therethrough in an approximately axial direction, and a plurality of stud bolts threadedly

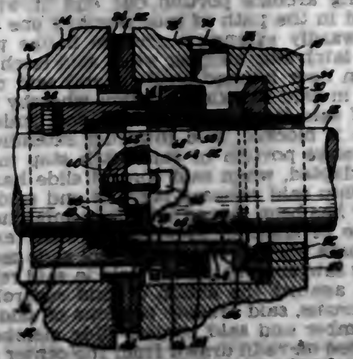
engaged in said apertures and adapted to urge the follower ring axially toward the gasket to apply pressure to the gasket, the wall portions forming said channel being inherently resilient to maintain said pressure.

2,650,841
SEAL
Walter W. Meyer, Cuba Township, Lake County, Ill., assignor to Rotary Seal Company, Chicago, Ill., a corporation of Illinois
Application March 25, 1948, Serial No. 16,970
6 Claims. (Cl. 286—11)



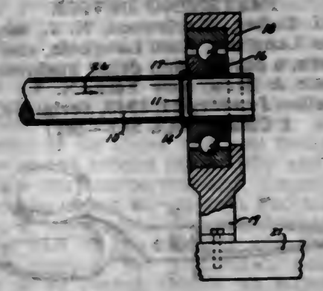
1. For use in a shaft seal, in combination with a seal ring having a shaft receiving opening therein and an annular seal surface around said opening for engaging and forming a running seal with a seal seat, a gasket of resilient material comprising sleeve-like inner and outer wall portions, disposed concentrically one within the other, a flexible connector portion integrally interconnecting said wall portions, at one end of the gasket, whereby to allow free relative axial displacement of said wall portions, through flexion of said connector portion, the inner wall portion being sized to snugly receive and to sealingly and drivingly grip the shaft to be sealed, said outer wall portion, at its junction with said connector portion, having like sectional thickness and having progressively increasing thickness toward its opposite end, and being formed at its said opposite end to sealingly engage the seal ring, and a supporting shell snugly embracing said outer wall portion at and from its said opposite end toward its junction with said connector portion.

2,650,842
SHAFT SEALING DEVICE
Wilfred M. Coopman, Los Angeles, Calif., assignor to Cannman Manufacturing Co., Lomita, Calif., a corporation of California
Application December 16, 1948, Serial No. 65,709
6 Claims. (Cl. 286—11.15)



1. A shaft seal comprising a pair of relatively rotatable annular members, a floating sleeve telescoping into and non-rotatably connected to one of said annular members, the inner surface of said one member and the outer surface of said sleeve being spaced apart radially to permit said sleeve to occupy a position in which its axis is an angle with respect to the axis of said annular member, a sealing surface on said sleeve, a sealing surface on the other of said annular members cooperating with the sealing surface on said sleeve, a plurality of annularly spaced spring means mounted between said sleeve and said one member to urged the sealing surface on said sleeve into sealing engagement with the sealing surface on said annular member and an O-ring packing member interposed between the overlapping portions of said telescopically overlapping sleeve and member to prevent fluid from escaping between said overlapping portions, one of the juxtaposed surfaces of said member and said sleeve telescoped therein having an annular groove formed therein adjacent the axial end of the part, said O-ring being seated in said groove to maintain said O-ring in place and the said surfaces adjacent the edge of said groove remote from the said axial end being at minimum relative radial spacing with very close clearance therebetween and less than the relative spacing at more remote points.

2,650,843
THRUST TRANSMITTING RETAINER FOR SHAFT MOUNTED MEMBERS
Samuel J. Spurgeon, Birmingham, Ala.
Application December 8, 1950, Serial No. 199,795
1 Claim. (Cl. 287—20)

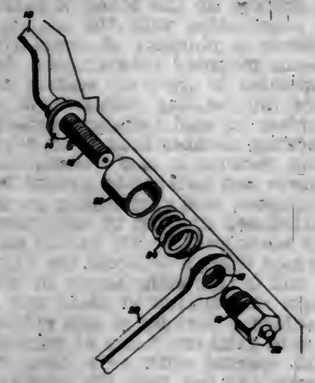


In combination, a shaft, a member surrounding the shaft, the shaft and member being slidable axially relative to each other, there being a circumferential groove in the shaft, adjacent the member, elongated axially of the shaft and having a portion subtending an arc equal at least substantially to one-fourth of a circle as the groove is viewed in radial cross section, a ring of round stock of a radius equaling the radius of said portion of the groove and fitting therein, and a surface on the member tangentially contacting the ring around the side thereof in the quadrant opposite the quadrant contacting the groove and at such an angle relative to the surface of the ring as to press the ring downwardly and inwardly of the shaft when the member moves toward the groove.

2,650,844
AUXILIARY STEERING ARM STABILIZER SPRING
John J. Sheasserry, Williston, N. Dak.
Application March 27, 1950, Serial No. 153,978
1 Claim. (Cl. 267—66)

In a vehicle including a cross rod having a threaded end and a shouldered portion adjacent the threaded end, an actuating arm having a

threaded opening and a sleeve threaded in the opening and threaded on the threaded end of said rod, said sleeve having a reduced end projecting through the opening and toward the shouldered portion, the improvement of which comprises a coil spring embracing said threaded end and



biased between said shouldered portion and said arm, said spring having an end embracing and contacting the reduced end of said sleeve, and a soft resilient collar about the spring and interposed between and contacting the arm and the shouldered portion.

2,650,845

FASTENING DEVICE

Charles J. Dalley, Maplewood, N. J., assignor to William Langbein, Emil Langbein, and Charles Langbein, a partnership doing business as Wm. Langbein & Bros., New York, N. Y.

Application January 31, 1948, Serial No. 5,670
1 Claim. (Cl. 287—101)



In combination, a pair of relatively rotatable members each having an aperture therein one of which has a pair of non-circular surfaces, a pivot member having a shank extending into said apertures formed with screw threads and a pair of external non-circular surfaces for engaging said non-circular surfaces of said aperture, said shank and said aperture with said surfaces being constructed and arranged to provide a pair of spaces intermediate said surfaces, a screw member secured to said pivot member having a frusto-conical head, and an annular member having a shoulder portion formed with a pair of fingers extending into said spaces and being formed with an elliptical frusto-conical rim of continuous periphery engaged by said head.

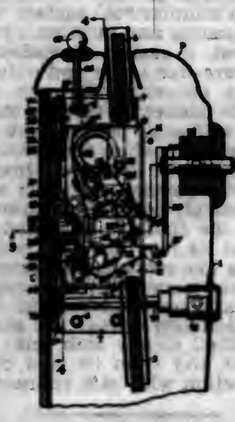
2,650,846

DOOR CONTROL MECHANISM

Edwin L. Allen, Cleveland Heights, Ohio, assignor, by mesne assignments, to Rudolph L. Schonitzer, Cleveland, Ohio

Application October 20, 1949, Serial No. 122,436
11 Claims. (Cl. 292—216)

1. A door latch mechanism comprising a frame structure, a latch member supported by said frame structure for rotary movement relative thereto between a door latched position and a door unlatched position, a snap-over spring secured at one end to said frame structure and having its other end movable with and effective upon said latch member, said other end of said spring being disposed on one side of the common center line between said one end of said spring and the center of rotation of said latch member when said latch member is in said door latched position and on the other side of said common center line when said latch member is in said door unlatched position, said spring being loaded to a maximum degree when said other end of said spring is on said common center line and to a lesser degree when said other end is on either side of said common center line whereby said latch member is urged toward said door latched position during a portion of its travel between said positions and toward said door unlatched position during the remainder of its said travel, a latch stop member supported for limited rotary movement with said latch member and having an inwardly extending arcuate flange portion, a control slide member, means on said frame structure for supporting and guiding said control slide member for straight line sliding movement transversely of the axis of rotation of said latch member between a latch stop member blocking position and a latch stop member released position, control slide spring means effective at all times to urge said control slide member toward its said blocking position, said control slide member having an outwardly extending arcuate portion one end of which is disposed in the path of movement of one end of said inwardly extending arcuate flange portion on said latch stop member when said latch member is in door latched position and said control slide is in said blocking position whereby movement of said latch member into door unlatched position is blocked, said inwardly extending arcuate flange portion of said latch stop member being adapted, when said control slide has been moved into said released position and said latch member has been moved into door unlatched position, to be engaged by said outwardly extending arcuate portion of said control slide member whereby said control slide is held in said released position against the action of said control slide spring means, said arcuate portions of said latch stop member and said control slide member being formed on radii drawn from the center of rotation of said latch member, and manually operable means for moving said control slide from said blocking to said released position.

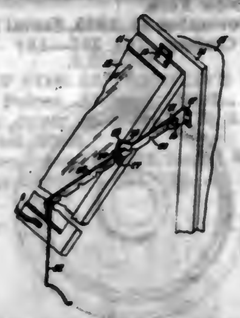


2,650,847

LATCH FOR CASEMENT WINDOWS

Rudolph A. Olsen, Portland, Oreg.

Application January 4, 1952, Serial No. 264,910
3 Claims. (Cl. 292—265)



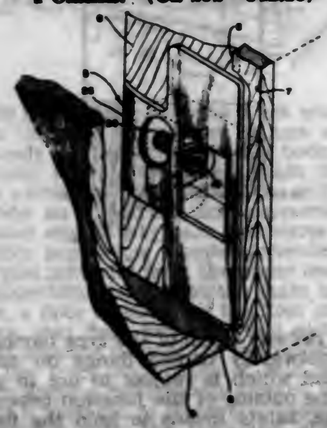
2. A latching mechanism for a top hinged vertically swingable closure for an opening formed in a wall, said mechanism comprising a latch bar pivoted at one end to said wall to swing in a vertical plane, a latch pivoted to said closure to swing in a vertical plane, said latch including a lug positioned on one side of its pivot axis and a back member positioned on the other side of its pivot axis, said lug being adapted slidably to support said latch bar as said closure is opened, said latch bar being adapted slidably to engage said back member and support said closure through said latch as said latch bar is lifted to initiate the closing of said closure, said latch bar being formed with a notch on one edge thereof, said notch being formed to pass said lug as said closure is moved in an opening direction and said latch bar is resting on said lug and to prevent the passing of said lug as said closure is moved in a closing direction and said latch bar is resting on said lug, whereby said closure can be opened to said notch and released to be latched in that position of opening and whereby said latch bar can be lifted to unlatch said lug and allow said closure to slide closed along said latch bar.

2,650,848

STRIKE PLATE

Raymond Garbe, Kankakee, Ill.

Application June 24, 1950, Serial No. 170,182
4 Claims. (Cl. 292—341.18)



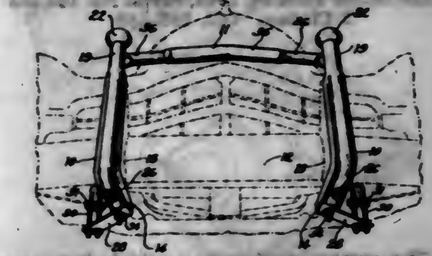
1. A strike plate made of one piece of material for a door frame having a mortised opening, comprising a plate element consisting of an elongated supporting portion merging with an extension, a latch receiving opening in the said elongated supporting portion and contiguous to the said extension and in registry with the said mortised opening, an adjusting lug portion adjacent the said latch receiving opening and in right angular relationship to the said extension, and adjusting screw means secured substantially perpendicularly to the said adjusting lug portion its free terminus abutting a face within the interior confines of the said mortised opening for urging the said adjusting lug portion in order to alter the right angular relationship thereof.

2,650,849

GRILLE GUARD

Harold Poncher and Jerry E. Poncher, Chicago, Ill., assignors to Erie Manufacturing Co., Inc., Chicago, Ill., a corporation of Illinois

Application September 24, 1949, Serial No. 117,562
9 Claims. (Cl. 293—64)



1. A universal grille guard for vehicles having variously positioned supports and bumpers and vertical bumperettes mounted on the bumpers, comprising a pair of guard uprights and a cross bar to connect their upper ends, each upright having a body portion channel-like in cross section adapted to be placed over the front of a bumperette, said upright extending above the bumperette at its upper end and being bent at its lower end to extend rearwardly and horizontally below the bumperette and bumper, clamping means to clamp the upright and bumperette together, a brace plate pivotally connected with the lower end of the upright and forming an extension thereof, an inverted U-bolt hanger adapted to be placed astride an adjacent support on the vehicle, said U-bolt having parallel legs spaced wider apart than the thickness of the supporting arm, said brace plate having apertures adjacent one end through which said legs are adapted to pass to secure the U-bolt and plate together, said apertures being diagonally arranged across the plate to receive the said widely spaced legs, the other end of said plate and the bent end of the upright overlapping, and clamping means to secure said ends together in any longitudinal angular relation, the said plate being reversible for use either side up to enable the U-bolt to be affixed to supports at different angles to the bumpers and to said lower ends of the uprights.

2,650,850

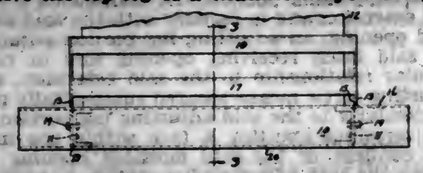
GUARD FOR AUTOMOBILE GRILLES AND RADIATORS

Richard G. Furrige, Seaside, Oreg.

Substituted for abandoned application Serial No. 53,107, November 3, 1948. This application September 26, 1950, Serial No. 186,729
2 Claims. (Cl. 293—64)

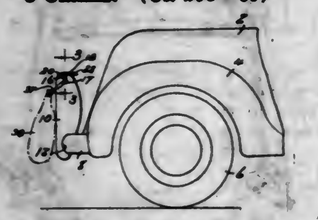
1. A guard for automobile radiators comprising a pair of upright standards adapted to be bolted

to the forward ends of a chassis frame at their junctions with the bumper, said standards having slots formed in their forward edges adapted to receive the top leg of a channel shaped bumper,



the lower end of each standard resting on the top side of the lower bumper leg and a pair of angle bar rails curved to conform with said bumper and joined integrally with said standards.

2,650,251
AUTO BUMPER GUARD
Peter H. Loppenen, Walden, Colo.
Application June 20, 1949, Serial No. 100,288
3 Claims. (Cl. 293—89)



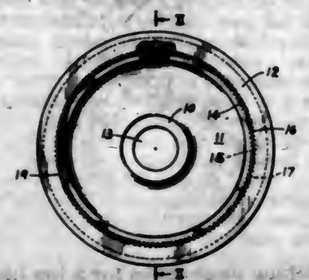
1. The combination with a vehicle bumper, of a vertically disposed guard above the bumper, said guard being concavo-convex in cross section, a closed rounded cap portion on the end of the guard extended above the bumper, said cap being provided in the upper surface thereof with a transverse slot having enlarged end portions to receive a rope, and a spring latch across the said slot.

2,650,252
PIPE HOLDER OR PULLER
Melvin B. Phelps, Sidney, Nebr.
Application March 13, 1950, Serial No. 149,369
5 Claims. (Cl. 294—82)



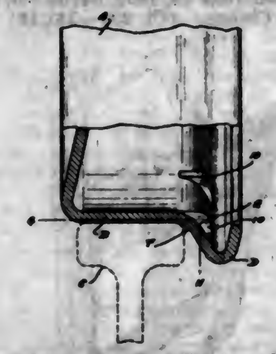
1. In a grapple, a U-shaped member to loosely surround a cylindrical object to be gripped, a bridge member extending between the legs of the U-shaped member and at right angles to said legs, and means carried by one of the legs of the U-shaped member to which a pulling cable may be connected, said cable connection being to one side of the longitudinal center line of the U-shaped member, whereby force exerted by the cable will cause the grapple to tilt abut both its longitudinal and transverse axes.

2,650,253
RAILWAY CAR WHEEL
Hunter Michaels, New York, N. Y., and John F. Fleck, Youngstown, Pa., assignors to American Locomotive Company, New York, N. Y., a corporation of New York
Application November 21, 1950, Serial No. 196,923
3 Claims. (Cl. 295—15)



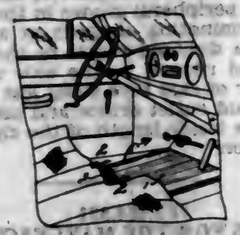
1. In a wheel for a railway vehicle, a center element having a cylindrical periphery, a groove in the periphery, a rim mounted on the center element and having a groove extending completely around the rim, said groove being disposed opposite the first groove to form a channel, and rod means disposed in the channel and extending completely around the center element so that the trailing end of the rod overlaps the leading end thereof, said rod extending radially into both grooves to prevent relative lateral movement between the center element and the rim, and a crescent shaped cut-out portion in the margin of the center element adapted to permit the insertion of the rod means therethrough into the channel so that said rod means may be fed into the channel in endwise manner after the rim and center element have been assembled, the shape of the cut-out portion providing space to permit the overlapping of the rod ends in tight engagement.

2,650,254
FLANGE-TYPE SAFETY WHEEL
Wilber F. Woolery, St. Paul, Minn., assignor to Woolery Machine Company, Minneapolis, Minn., a corporation of Minnesota
Application October 8, 1949, Serial No. 120,324
3 Claims. (Cl. 295—34)



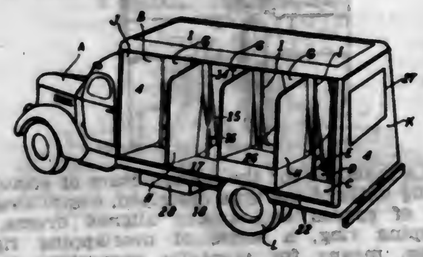
1. In a railway wheel of the type having a rim and an outwardly turned flange on one edge thereof and which is subject in use to greatest wear at the outside of the junction between rim and flange, safety means to hold the flange in place even when the said junction is worn completely through, consisting of a series of elements secured on the inside of the rim and flange and spanning the junction therebetween to tie the flange to the rim, the said elements being thickest measured in a plane radially of the wheel where they cross the rim and flange junction and tapering in opposite directions therefrom.

2,650,255
FLOOR MAT FOR AUTOMOTIVE VEHICLES
Thomas H. Peirce, Detroit, Mich., assignor to H. A. King, doing business as H. A. King Company, Detroit, Mich.
Application June 11, 1948, Serial No. 32,295
8 Claims. (Cl. 296—1)



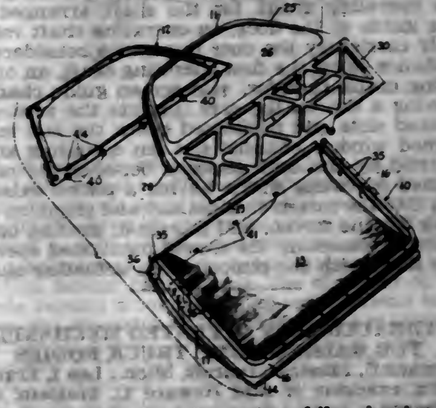
1. A floor mat for automotive vehicles or the like having a floor board with a drain hole therein comprising a sheet of flooring material having formed therein an integral tubular protuberance having a drain hole therethrough and projecting from the underside thereof and shaped to fit in said drain hole.

2,650,256
BODY FOR DELIVERY TRUCKS
William O. Mashburn, Jr., and Gustav A. Broetzler, Cincinnati, Ohio, and Kenneth Kinnaird, Kenton County, Ky., assignors to The Coca-Cola Bottling Works Co., Cincinnati, Ohio, a corporation of Ohio
Application July 24, 1950, Serial No. 175,507
1 Claim. (Cl. 296—23)



A body for a bottle carrying truck which comprises a plurality of bolster frames extending transversely of the bottom of said body, each of said bolster frames including a main transverse member extending substantially the width of the truck body, an upstanding skirt supporting member at each end of said main transverse member, and a floor supporting member extending downwardly and inwardly from the upper end of each skirt supporting member to the main transverse member, a floor mounted on the floor supporting members, said floor including two sections disposed on opposite sides of the longitudinal center line of the truck body, each of said sections of the floor sloping downwardly toward the center line, and a plurality of transverse panels extending upwardly from the floor and dividing the body into a plurality of bins, said panels comprising spaced side walls diverging from each other from their outer edges toward the longitudinal center line of the truck and cooperating with the adjacent panels to form wedge shaped spaces therebetween, the floor of each of said bins terminating short of the center line, said bins each being adapted to receive a stack of cases of bottles with the innermost stack wedged between said panels.

2,650,257
COMPOSITE DOOR FOR AUTOMOBILES
Michael Watter and Walter S. Eggert, Jr., Philadelphia, Pa., assignors to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 11, 1951, Serial No. 236,183
5 Claims. (Cl. 296—44)



1. Composite door for automobiles, having an upper part with a window opening therein, said door comprising a sheet metal structure substantially restricted to the region below the window opening, and a die-cast structure forming exclusively said upper part around the window opening, said die-cast structure providing window retaining means and molding around the window opening, said sheet metal and die-cast structures being secured to each other.

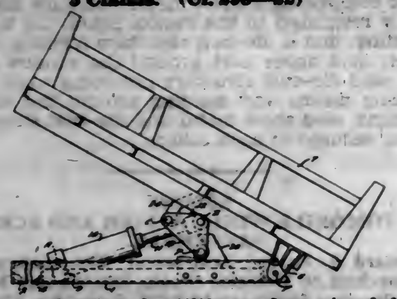
2,650,258
AUTOMOBILE WINDOW SASH AND SCREEN ASSEMBLY
Bernard A. Lange, Brantwood, Wis., assignor of one-half to Everette Steele, Brantwood, Wis.
Application February 14, 1952, Serial No. 271,530
1 Claim. (Cl. 296—44)



In an automobile door having a window opening therein and a well below the opening, side stiles for the window opening extending into the well, each having spaced guide channels, a sash glass and a screen slidably mounted in the channels and movable into the well to an open position and into the window opening in their closed

position, the glass and the screen each having a vertical rack bar secured to one edge thereof on the same side of the window, said channels on the other side of the window each having a series of vertically spaced aligned slots therein, a series of spaced rotatably mounted transverse shafts carried by the door, each shaft positioned behind a pair of the horizontally aligned slots, antifriction rollers secured to each shaft on the other side of the window extending into a respective slot and engaging the edges of the glass and screen opposite to the edges carrying the rack bars, said window guide channel having a slot therein on the side opposite the vertically spaced slots, an operating shaft carried by the door having a pinion extending into said last mentioned slot and meshing with the rack bar for the glass, an operating crank for the shaft arranged on the inside of the door, an operating shaft rotatably carried by the door disposed a considerable distance below the first operating shaft, an operating crank therefor, said screen guide channel having a slot on the side opposite the vertically spaced slots and positioned below the last mentioned window channel slot, an actuating shaft carried by the door disposed between the mentioned operating shafts having a pinion extending into the screen channel slot and engaging the rack for the screen, and a train of gearing operatively connecting the second mentioned operating shaft with the pinion of the actuating shaft.

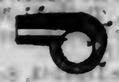
2,650,559
HYDRAULICALLY OPERATED MECHANISM FOR RAISING DUMP TRUCK BODIES
Howard C. Einstein, Detroit, Mich.; Leo I. Franklin, executor of said Howard C. Einstein, deceased
Application January 18, 1950, Serial No. 139,219
5 Claims. (Cl. 298—32)



1. A mechanism for tilting a dump truck body about its hinge axis on the frame of a truck including, in combination, a cylinder pivotally mounted on said frame, a piston rod in said cylinder movable therefrom toward the rear of the frame, a pair of triangular control links pivoted to said body at one corner of the triangle, means for pivoting the piston rod to another corner of the triangular control links, and a pair of cam elements having cam surfaces at an angle to each other secured to said frame and engaging the third corner of the triangular control links for controlling the movement of the third corner in planes at an angle to each other.

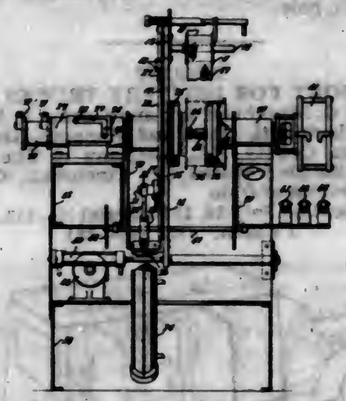
2,650,560
IMPROVEMENT IN HOLLOW CONE SPRAY NOZZLE
Clifford H. Carr, Kansas City, Mo.
Application December 16, 1949, Serial No. 133,417
6 Claims. (Cl. 299—114)

1. In a non-clogging spray nozzle, a cylindrical whirl chamber having flat end walls perpendicular to the axis of said chamber, one of said end walls containing a circular outlet orifice concentric with said axis, a single fluid inlet to said chamber comprising a straight cylindrical bore extending through the annular side wall of the chamber, the center line of said bore being tangent to the inside annular surface of said chamber and substantially equidistant between the



planes of said end walls, part of said bore being formed as a peripheral groove in the wall of said chamber terminating abruptly at a point adjacent a plane disposed radial to the axis of the chamber and normal to the axis of said bore, the diameter of said bore being less than the diameter of said outlet orifice and also materially less than the inside length of the chamber in an axial direction.

2,650,561
MACHINE FOR THE MANUFACTURE OF BUFFS AND SIMILAR ARTICLES
Laurens W. MacFarland, Long Island City, N. Y., assignor to Jackson Buff Corporation, Long Island City, N. Y., a corporation of New York
Application March 25, 1947, Serial No. 737,003
19 Claims. (Cl. 300—1)



1. A machine for the manufacture of annular buffing units of the type described, comprising a pair of spaced and axially aligned drums, a clamping ring, a series of overlapping rigid blades, means for pivotally supporting each blade to form a ring of the overlapping blades around the space between the aligned drums, means for swinging the blades on their pivots to extend inwardly between said drums to collapse and shirr material wound on the surface of the drums, means for the application of pressure in an axial direction to cause the clamping ring to embrace the material of the annular buff unit at the inner periphery thereof, and means for withdrawing the said blades.

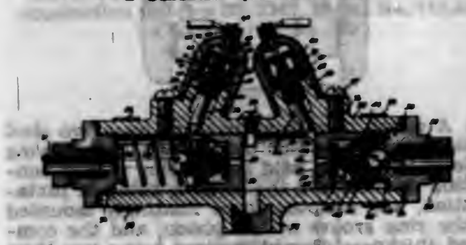
2,650,562
WHEEL COVER
George Albert Lyon, Detroit, Mich.
Application October 12, 1948, Serial No. 54,161
7 Claims. (Cl. 301—37)

1. As a composite article of manufacture a cupped member having the bottom thereof apertured, a reflector member in said cupped member resting on the bottom thereof and having an aperture therein, an ornamental insert member seated on said reflector member and fastening means connected to said insert member and extending through apertures in the cupped and reflector members for tightly fastening all of said members together in a unitary assembly, said



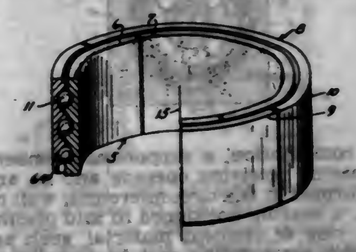
insert member being formed of the same material as that of the cupped member and being in the form of a stamping removed from the cupped member in the forming of the aperture therein, said reflector member comprising a glass disk of convex-concave cross section with its outer peripheral margin seated tightly against said bottom of the cupped member.

2,650,563
AUTOMATIC CUTOFF VALVE
John D. Fore, San Angelo, Tex.
Application June 24, 1949, Serial No. 101,171
2 Claims. (Cl. 303—24)



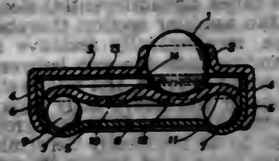
1. An automatic cut-off valve for use in a hydraulic fluid system comprising a master cylinder, subsidiary cylinder and first cylinder, conduit means connecting said first cylinder to the master cylinder of the system, additional conduit means connecting said first cylinder to the subsidiary cylinder, a piston in said first cylinder, said piston being formed with a passage therethrough, said passage normally held closed by spring pressed check valve, said check valve permitting only the flow of fluid under pressure towards said additional conduit means, a sealing element carried by said piston and sealingly engageable in a seat connected to said additional conduit means responsive to abnormal movement of the piston toward said seat spring means opposing such movement, and an inclined spring pressed detent member extending slidably through a wall of said first cylinder and normally engaging the side of said piston, the detent member being lockingly engageable behind the piston when said piston has been moved into sealing position with respect to said seat.

2,650,564
MULTIPLE RACE BALL BEARING
Joseph M. Morgan, Verona, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application April 26, 1950, Serial No. 158,123
4 Claims. (Cl. 308—174)



1. A multiple race stack type ball bearing for axial and radial loading and wherein the loading is more nearly axial than radial, comprising a longitudinally split otherwise integral inner race having a wall profile characterized in sequence by a cylindrical portion; a toroidal grooved race portion having balls therein, the diameter of the circle passing through the ball centers being more than the diameter of said cylindrical portion; a cylindrical portion of diameter greater than the diameter of the ball center circle; a step; a cylindrical portion like the first cylindrical portion and so on in sequence; and a longitudinally split otherwise integral outer race having a wall profile characterized by a cylindrical portion of diameter less than the diameter of the ball center circle, a toroidal grooved race portion engaged by the balls, a cylindrical portion of diameter greater than the diameter of the ball center circle, a step, a cylindrical portion like the first mentioned outer race cylindrical portion, and so on in sequence.

2,650,565
ANTIFRICTIONAL BEARING OF THE LOAD BALL TYPE
Claude Mortimer Townsend, Birmingham, England
Application September 24, 1952, Serial No. 311,260
In Great Britain June 26, 1952
2 Claims. (Cl. 308—237)



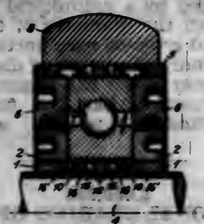
1. An anti-frictional bearing of the kind described comprising a cup having right angled sides and an internal boundary ball race, a ring of balls operative in said ball race, a rigid table mounted on ring of balls and having on its upper surface a concentric inner ball race, an eccentric load ball operating in inner ball race, a rigid cap fitting over cup and provided with a raised taper sleeve to locate the load ball, and a washer disposed at the underside of cap and provided with a hole or flange of less diameter than the load ball and making resilient contact with the surface of the load ball.

2,650,866
BEARING
Giltner J. Knudson, Guilford, N. Y., assignor to Bendix Aviation Corporation, New York, N. Y., a corporation of Delaware
Application December 22, 1949, Serial No. 134,550
17 Claims. (Cl. 308—236)



1. In combination, a supporting member having a bearing receiving opening and an annular groove formed in the circumferential wall of said opening, a bearing positioned in said opening, an annular ring of resilient material, such as rubber, closely surrounding and frictionally engaging said bearing and extending into said groove, and biased resilient means in said groove around said ring for maintaining the latter under radial compression between said bearing and said resilient means.

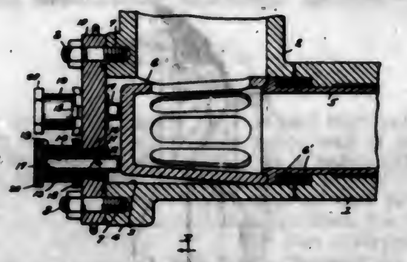
2,650,867
MOUNTING DEVICE FOR ANTIFRICTION BEARINGS
Rudolf Spieth, Esslingen-Kennenburg, Germany
Application June 28, 1950, Serial No. 170,776
In Sweden June 30, 1949
4 Claims. (Cl. 308—236)



1. Mounting sleeve for antifriction bearings comprising in combination, a metallic clamping sleeve formed at each end thereof with at least one pair of adjacent ring grooves, one groove open towards the outer and another groove open towards the inner circumferential sleeve surface to form a thin annular section therebetween, an axially large, mechanically resistive supporting section extending into the gap between the two inwardly opening grooves, the relatively thin annular sections of the sleeve body separating the outwardly and the inwardly open grooves being weak enough to be resiliently deformable by an axially acting force, and means in contact with both end faces of the sleeve for generating such deforming forces.

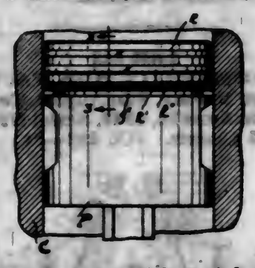
2,650,868
FLUID END PUMP HEAD
Benjamin F. Waldron, Corpus Christi, Tex.
Application June 19, 1951, Serial No. 232,239
2 Claims. (Cl. 309—3)

1. The combination, with a pump cylinder and with a liner mounted within and adjustable longitudinally of said cylinder, of a head secured to and closing one end of the cylinder, said head having at least one tapered opening; a tubular member having a base tapered correspondingly to said opening, said base being wedgably engaged in the opening, said tubular member including an exteriorly threaded extension outstanding from the external surface of the head; a jam nut threaded on said extension and against the external surface of the head, there being an end-



to-end bore formed in said tubular member; a piston slidable in said bore and abutting at one end against the liner; and an adjusting sleeve threaded on said extension, said adjusting sleeve having a closed end engaging the other end of the piston, whereby to adjust the piston longitudinally of said tubular member responsive to threading of said sleeve upon the extension.

2,650,869
PISTON RING
Melvin W. Marien, St. Louis, Mo., assignor to Ramsey Corporation, St. Louis, Mo., a corporation of Ohio
Application March 21, 1951, Serial No. 216,260
6 Claims. (Cl. 309—45)

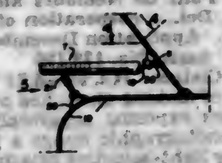


2. A piston ring comprising at least two steel sections, each of which comprises a helix having at least two turns, said turns being in non-contacting relation and the sections being in juxtaposition, and adapted to be floatingly mounted in the ring groove of the piston, and the combined thickness of said sections being less than the width of the ring groove of the piston, to accommodate said ring sections to move relative thereto and have a pumping action cushioned by the oil accumulating within the groove and forcing excess oil from the groove.

2,650,870
SERVICE TRAY FOR AUTOMOBILE INSTRUMENT PANELS
Oliver W. Carpenter, Lakewood, Colo.
Application April 30, 1951, Serial No. 223,780
2 Claims. (Cl. 211—21)

1. A tray for use in an automobile of the type having a windshield and an instrument panel adjacent and rearwardly of the lower end thereof, a tray adapted to be disposed above the instrument panel, to the rear of the windshield, said tray having a flat surface of extended area surrounded by an upwardly ranging rim, two

stems integral with the rim, projecting from the rim on one edge of the tray said stems being upwardly ranging with respect to the plane of the tray, suction cup on the ends of said stems,



and two spaced legs pivotally connected to the bottom of the tray adjacent the edge opposite from the upwardly ranging stems, forming a support for the rear of the tray.

2,650,871
FURNITURE PROVIDED WITH DRAWERS
Hermann Heldenegger, Buchs (Aarau), Switzerland
Application January 6, 1950, Serial No. 137,961
In Switzerland May 5, 1949
3 Claims. (Cl. 312—332)

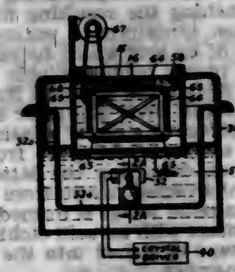
3. A furniture provided with drawers, a carrier withdrawable from said furniture for rotatably supporting at least one of the drawers, a plate recessed in the lower surface of the drawer adjacent the inner end thereof, an axle pin depending from the plate centrally thereof, a plate recessed in the upper surface of the carrier adjacent its inner end, a center slot formed in said carrier plate extending from the axis of rotation of the drawer towards the furniture and slidably engaged by said axle pin, a retaining head formed on the lower end of said pin, a clearance slot beneath the carrier plate, a pair of guide pins depending from the drawer plate on opposite sides of the axle pin in line with said



center slot, said pins slidably engaging alignment slots formed in the carrier plate on opposite sides of the center slot, similar to said center slot and in line therewith, and said pins slidably engaging a pair of arcuate slots in the carrier plate when the drawer is withdrawn until its axle pin contacts the outer end of the center slot and is rotated on said pin, said arcuate slots extending in one rotational direction 90 degrees away from the outer end of each alignment slot.

CHEMICAL

2,650,872
METHOD AND APPARATUS UTILIZING COMPRESSIONAL WAVE ENERGY IN THE UPPER SONIC AND SUPERSONIC RANGE FOR WASHING TEXTILES
Seymore Goldwasser, Chestnut Hill, Mass., assignor to Lever Brothers Company, Cambridge, Mass., a corporation of Maine
Application October 30, 1947, Serial No. 783,050
7 Claims. (Cl. 8—158)

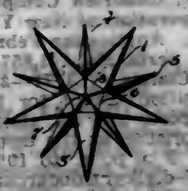


1. In a method of cleaning soiled textile articles, the steps of immersing a soiled textile article in a cleaning liquid with substantially all portions of the textile article lying along and in line with a straight path therein, providing a vibrating zone for producing compressional wave energy of low intensity and of a frequency lying in the upper audible and supersonic range, propagating compressional wave energy from said zone in line with and parallel to said path in the liquid and along the soiled article, producing standing waves with said high frequency wave energy for producing along the soiled article, standing wave nodes and antinodes of compressional wave energy, said nodes and antinodes having effective soil removal action on the article in zones spaced substantially one-half wave length apart and displacing said vibrating zone to-and-fro along the line of propagation of the wave energy for displacing the positions of the standing wave nodes and antinodes.

2,650,873
PREPARATION OF TITANIUM TETRACHLORIDE
Owen F. Sprague, Niagara Falls, N. Y., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application November 15, 1952, Serial No. 320,825
7 Claims. (Cl. 23—87)

1. Method for the preparation of titanium tetrachloride which comprises mixing together an alkaline earth metal chloride, including magnesium chloride, with an alkali metal fluotitanate, heating the mixture at a temperature above 350° C., and recovering the titanium tetrachloride evolved.

2,650,874
DECORATION FOR CHRISTMAS TREES
John L. Weelven, St. Vital, Manitoba, Canada
Application September 2, 1949, Serial No. 113,961
5 Claims. (Cl. 42—11)



1. A multi-dimensional decoration comprising in combination a connecting-and-holding as-

sembly, a pair of multimembered components detachably secured thereto, said connecting-and-holding assembly comprising a distance piece, a pair of parallel member-engaging flange-discs secured thereto, one on each side thereof, and a spring loaded tensioning disc secured to each of said member-engaging flange-discs, each of said pair of components including at least one primary member having a polygonal base, and a plurality of members having bases similar to said polygonal base, each hingedly secured by one edge thereof to adjacent edges of the polygonal base of said primary member, said components being adapted to be detachably secured to said connecting-and-holding assembly so that in situ the members of said components substantially surround and enclose said connecting-and-holding assembly and extend therefrom in symmetrical array, each of said primary members being positioned against each of said tensioning discs and compressing same against said flange discs, a pair of adjacent sides of each of said other members engaging over the edge of said flange discs and being held thereby under tension exerted by said spring loaded tensioning discs.

2,650,875
METHOD OF ETCHING ALUMINUM AND ALUMINUM BASE ALLOYS
Vladimir Dvorkovitz, Chicago, and John R. Swihart, Chicago Heights, Ill., assignors to The Diversey Corporation, a corporation of Illinois
No Drawing. Application December 9, 1950, Serial No. 200,117
11 Claims. (Cl. 41—42)

1. In the etching of articles of aluminum and of aluminum base alloys, the method which comprises treating the surface of said article with a hot aqueous solution comprising an etching alkali and a small amount of water-soluble saturated aliphatic polyhydroxy compound in a proportion such that the formation of a hard adherent precipitate is avoided for an extended period of time, said compound being selected from the class consisting of polyhydric alcohols of the formula $CH_2OH(CHOH)_aCH_2OH$ wherein a is at least 2, starches of the formula $(C_6H_{10}O_5)_x$, polyhydroxy monobasic acids of the formula

$$COOH(CHOH)_cCH_2OH$$

wherein c is at least 4, polyhydroxy dibasic acids of the formula $COOH(CHOH)_dCOOH$ wherein d is at least 3, gum arabic and the alkali metal salts of said acids.

2,650,876
BIOLOGICALLY ACTIVE COMPOSITIONS
William D. Stewart, Brecksville, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application February 1, 1950, Serial No. 141,857
7 Claims. (Cl. 71—2.7)

1. A composition useful for insecticidal and fungicidal purposes and for altering the growth of plants comprising, as the essential active ingredient, from 3 p. p. m. to 10% by weight of an O-alkyl N,N-dialkyl thiocarbamate and a carrier therefor, said active ingredient being uniformly dispersed throughout the mass of the carrier.

2,650,877
PROCESS OF PRODUCING ETCHED PRINTING PLATES
Mahlon Richard Boyer, Metuchen, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 9, 1949, Serial No. 132,199
6 Claims. (Cl. 96—5.7)

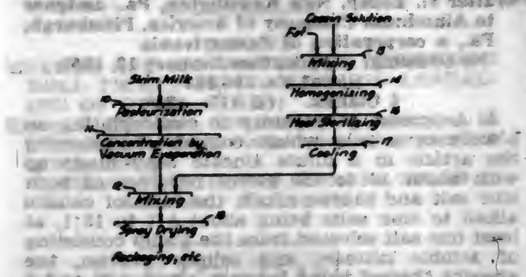
1. A process of making an etched printing plate which comprises exposing separately through a screen and a photographic image a film element having an outer light-sensitive gelatino silver halide emulsion layer and a hydrophobic support, developing said film in a non-hardening photographic developer solution, fixing the developed film in a non-hardening fixing solution, bleaching the fixed film in a hardening bleach bath, pressing the bleached silver salt gelatin layer into contact with the surface of a metal printing member, removing the support from the latter layer, washing the unhardened gelatin from the bleached silver salt gelatin layer and treating the relief image with an acid etching bath whereby an image is etched into the surface of said printing member.

2,650,878
METHOD OF PRODUCING ETCHED PRINTING PLATES
Mahlon Richard Boyer, Metuchen, and Arthur William Grambine, Parlin, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 9, 1949, Serial No. 132,200
7 Claims. (Cl. 96—5.7)

1. A process of making an etched printing plate from a dry-stripping film having a gelatino silver halide emulsion layer carried by a thin hydrophobic cellulose derivative support which is adhesively joined to a temporary support by a dry-stripping layer, comprising exposing the emulsion layer separately through a screen and to a photographic picture, developing the exposed film in a hardening developer, fixing said developed film, bleaching the resulting film with an aqueous solution containing a water-soluble alkali metal salt of an acid which forms an insoluble silver salt image readily soluble in thiosulfate solutions, drying the bleached film, pressing the bleached gelatin silver salt layer into contact with the wet surface of a metal printing member, stripping the temporary support from the remaining support, dissolving the latter support, washing the unhardened gelatin from the gelatin layer whereby a relief image is formed and treating the relief image with an acid etching solution whereby an image is etched into the surface of said printing member.

2,650,879
MILK PRODUCT AND PROCESS
David D. Peebles, Hillsborough, and Murray D. Girvin, San Anselmo, Calif., assignors to Western Condensing Company, San Francisco, Calif., a corporation of California
Application October 28, 1950, Serial No. 191,891
2 Claims. (Cl. 99—63)

1. In a process for the manufacture of a dry powdered milk product having both fat and non-fat milk solids, the steps of pasteurizing fresh skim milk having its protein content substantially undenatured, subjecting the pasteurized milk to vacuum evaporation to concentrate the same, mixing the concentrate with a water-fat emulsion produced by emulsifying fat in water together with sodium caseinate, the emulsion comprising from 45 to 80% water, 10 to 52% fat, and

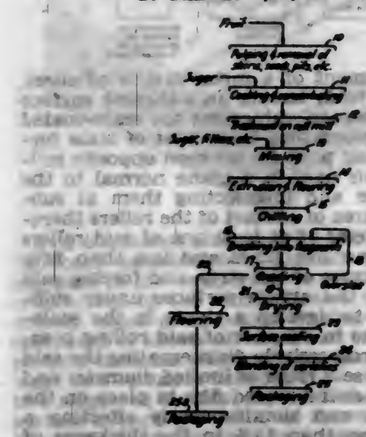


from 1.2 to 3.1% sodium caseinate and then spray drying the resulting blended material to form a stable fat containing powdered product.

2,650,880
FOOD PRODUCT
Arvid M. Erickson, San Jose, Calif., assignor, by mesne assignments, to Hawaiian Pineapple Company, Limited, Honolulu, Territory of Hawaii, a corporation of Hawaii
No Drawing. Original application October 1, 1941, Serial No. 413,165, now Patent No. 2,490,375, dated March 7, 1950. Divided and this application June 4, 1949, Serial No. 97,305
10 Claims. (Cl. 99—102)

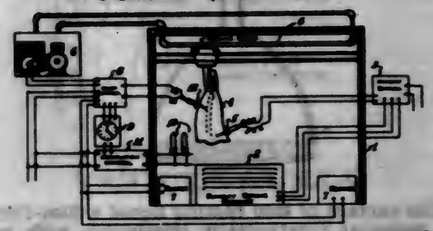
1. A fruit composition comprising a fresh fruit material and a readily blendable and compatible added sweetening medium derived from fruit and having substantially the same sugar composition as fruit and containing inert non-sugar constituents of fruit and which is substantially free of acids and ash-forming materials, said sweetening medium being of such blendability and compatibility with respect to the fruit material that it enters into immediate osmotic equilibrium with the fruit material thus to preserve the original appearance of the latter over long periods of time.

2,650,881
PROCESS FOR THE MANUFACTURE OF A COMPOUNDED FRUIT PRODUCT
John H. Ferkner, Fresno, Calif.
Application November 20, 1951, Serial No. 257,235
17 Claims. (Cl. 99—102)



1. In a process for the treatment of a homogeneous material containing fruit solids and sugar and having a substantial moisture content, the steps of chilling the material to a low temperature to render the same brittle, cracking the brittle material to form crystal-like fragments, and drying the resulting material to provide a final dried product.

2,650,882
CYCLICAL PROCESS AND APPARATUS FOR TENDERIZING MEAT
George S. Sperti, Burlington, Ky., assignor to Institutum Divi Thomae Foundation, Cincinnati, Ohio, a corporation of Ohio
Application August 5, 1946, Serial No. 688,289
5 Claims. (Cl. 99—107)



1. A process of tenderizing meat pieces which comprises reducing meat pieces uniformly to a temperature in the neighborhood of 32° F., producing a high degree of sterilization of the surfaces of said meat pieces, then raising the temperature of the meat pieces to a high tenderizing temperature substantially between 60° and 90° F., maintaining the meat in such high temperature for a period of hours, thereafter reducing the temperature of the meat pieces to below around 45° F. and again subjecting the surfaces thereof to a sterilization treatment, and continuously maintaining the humidity of the air surrounding the meat pieces so as substantially to prevent both loss of moisture by the meat pieces and condensation of moisture thereon by varying the humidity of said air in accordance with the actual temperature of said meat pieces, and initiating the last mentioned low temperature treatment upon the attainment of a predetermined maximum temperature by portions of the meat pieces lying adjacent the bone therein.

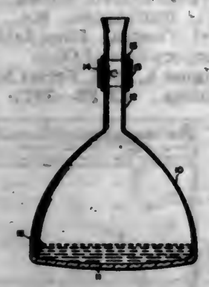
2,650,883
COLOR-STABLE RED PEPPER COMPOSITION AND PROCESS OF PRODUCING THE SAME
Lester Oscar Van Blaricom and John Allen Martin, Clemson, S. C., assignors to The Clemson Agricultural College of South Carolina, Clemson, S. C., a corporation of South Carolina
No Drawing. Application April 12, 1951, Serial No. 220,974
7 Claims. (Cl. 99—140)

1. As a new product, a red pepper condiment comprising an intimate mixture of finely ground red pepper and a small amount of ground sesame seed sufficient to produce enhanced color stability and ranging from about 2 to 10 per cent by weight.

2,650,884
PROCESS FOR FILMING LUMINESCENT SCREEN
Serge Pakswer, Elmhurst, and Philemona C. Intiso, Chicago, Ill., assignors to The Rauland Corporation, a corporation of Illinois
Application December 29, 1949, Serial No. 135,496
7 Claims. (Cl. 117—33.5)

1. The method of forming a thin volatilizable organic film on the luminescent viewing-screen

surface of a cathode-ray tube envelope which comprises: introducing a casting liquid into said envelope; maintaining said envelope in a position with its axis at an acute angle with a vertical to cause the surface area of said casting liquid to assume a value at least substantially equal to the area of said screen surface while keeping said screen surface completely immersed; depositing



on the surface of said casting liquid a film-forming material substantially immiscible with said casting liquid and allowing said material to set into a thin volatilizable plasticized organic film on the surface of said casting liquid; and thereafter decanting said casting liquid from said screen surface and removing said casting liquid from said envelope to deposit said film on said screen surface.

2,650,825

PRESERVATIVE IMPREGNATION OF WOOD

Memie S. Hudson, Spartanburg, S. C.

No Drawing. Application June 23, 1950, Serial No. 170,623

3 Claims. (Cl. 117—63)

1. In the impregnation of wood with a normally liquid, oil-borne, preservative compound solution, the method of removing the solvent oil component of said solution from the impregnated wood, and of stripping excess preservative compound from the surface and outer layers of said wood to clean the surface thereof and to leave an effective concentration of preservative distributed substantially uniformly throughout the cross section thereof, which comprises heating the impregnated wood in a closed space by introducing into said closed space hot vapors of said solvent oil at a temperature corresponding to the boiling point of said solvent under the conditions in said closed space, continuing the introduction of said hot vapors so that said wood is heated in said closed space by the vapor atmosphere therein to an elevated temperature but not above about 320° F. so that said heating is carried out substantially below the temperature at which said wood would be damaged by heating, draining from said wood and then from said closed space condensate of said solvent oil as it is formed on the surface of the impregnated wood during the vapor heating of said wood and thereby carrying off excess preservative compound as an extract with said condensate from the surface and outer layers of the heated wood, discontinuing the introduction of said hot vapors and creating a vacuum in said closed space whereby the solvent oil component of said solution is vaporized from said heated wood and recovered from said closed space, and alternately repeating said vapor heating and vacuum treatments of said impregnated wood until the wood is substantially free of said solvent oil.

2,650,826

PROCEDURE AND BATH FOR PLATING ON ALUMINUM

Walter G. Zelley, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application January 19, 1951, Serial No. 206,923

4 Claims. (Cl. 117—130)

1. A process preparatory to electroplating an aluminum article which comprises immersing the article in a dilute zincate bath made up with about 16 to 150 grams per liter of both zinc salt and caustic alkali, the ratio of caustic alkali to zinc salts being about 5:1 to 15:1, at least one salt selected from the group consisting of soluble nitrates and soluble nitrites, the amount thereof being between about 0.25 and 2 grams per liter of the bath, and stripping the zinc deposit first formed in said alkaline zincate bath and again immersing the aluminum article therein prior to electroplating the same.

2,650,827

TEXTILE MATERIAL SIZED WITH ZIRCONIUM SALT OF WATER-SOLUBLE CARBOXYALKYL CELLULOSE

John H. Elliott, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 9, 1948, Serial No. 13,962

3 Claims. (Cl. 117—139.5)

1. A permanently sized textile comprising a textile and as sizing therefor an insoluble sizing deposit of the zirconium salt of carboxymethyl cellulose, said carboxymethyl cellulose having between about 0.5 and about 2.0 carboxymethyl groups per anhydroglucose unit, said sizing deposit being resistant to laundering and insoluble in acid and alkaline media.

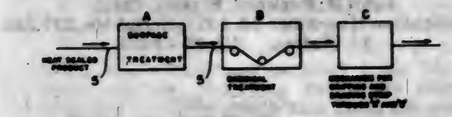
2,650,828

METAL SURFACE TREATMENT

Rolfe Pettberg, Loch Raven, Md., assignor to Freeport Sulphur Company, New York, N. Y., a corporation of Delaware

Application August 9, 1949, Serial No. 109,280

1 Claim. (Cl. 134—15)



In the treatment of a metal article of sheet, plate or strip form having an adherent surface film of scale thereon, subjecting the scale-coated article at a temperature below that of scale formation to rolling pressure between opposite rollers having their axes in a plane normal to the article surfaces and intersecting them at substantially the area of contact of the rollers therewith, the diameter of at least one of said rollers being more than five times and less than fifty times the thickness of the strip, and forcing said rollers against the article surfaces under sufficient pressure to develop a ripple in the scale-carrying surface in advance of said rolling pressure contact, progressively disintegrating the said film of scale by said roller of limited diameter and preserving the disintegrated film in place on the article surface and simultaneously effecting a reduction of less than 10% in the thickness of the metal between the rollers, delivering the article with the disintegrated scale film adhering thereto, and subsequently treating the said adhering disintegrated scale film with a fluid reacting therewith to loosen and remove it.

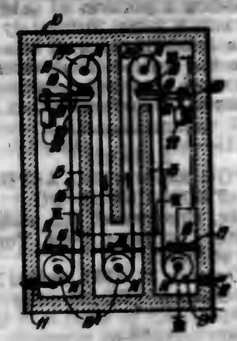
2,650,829

METHOD AND APPARATUS FOR INHIBITING ROLL PICKUP IN CONTINUOUS ANNEALING OF STEEL STRIP

Harry F. Shannon, Pittsburgh, Pa., assignor to United States Steel Corporation, a corporation of New Jersey

Application May 18, 1950, Serial No. 163,069

6 Claims. (Cl. 148—21.5)



4. The combination with a strip-annealing furnace having horizontal metal conveyor rolls extending thereacross, of a pair of bars mounted on the interior of the furnace walls adjacent each roll and a mass of refractory material carried by said bars in contact with said roll, continuously applying thereto a film inhibiting the pick-up of oxides from the strip.

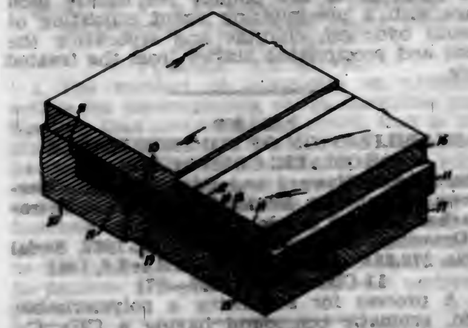
2,650,830

LAMINATED GLASS-VINYL WINDSHIELDS

William K. Bicdese, Seattle, Wash., assignor to Boeing Airplane Company, Seattle, Wash., a corporation of Delaware

Application March 8, 1952, Serial No. 275,497

4 Claims. (Cl. 154—2.71)



3. A laminated glass-vinyl windshield for conventional installation in aircraft to avoid glass chipping at low temperatures upon the excessive contraction of the vinyl relative to glass, comprising outer glass panes, an inner vinyl layer composed of sheets of vinyl, and thin strips of a parting medium inserted near the edges of the vinyl and interlaid between the said vinyl sheets in a staggered overlapping relationship from each surface toward the center of the vinyl layer near the glass edges forming two respective tapering portions of the vinyl layer which deform to absorb the critical thermal stresses.

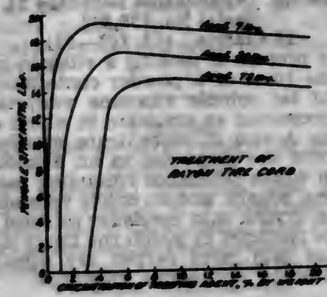
2,650,831

PROTECTION OF CELLULOSE AGAINST HEAT AGING

Howard M. Buckwalter, Detroit, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application April 13, 1951, Serial No. 220,946

17 Claims. (Cl. 154—46)



1. The method of improving the resistance of cellulose to the deteriorating effects of heat aging which comprises incorporating a water soluble 2,2 -diaminodialkylsulfide in the cellulose the said alkyl groups being lower alkyl groups containing less than seven carbon atoms.

2,650,832

ALKYL MONOAMINE SALTS OF PENTACHLORPHENOL USEFUL FOR CONTROLLING MITES

Gene M. Le Fave, New Augusta, Ind., assignor to J. I. Holcomb Manufacturing Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application December 7, 1951, Serial No. 260,559

16 Claims. (Cl. 167—31)

10. A miticidal composition comprising as an active essential ingredient an alkyl monoamine salt of pentachlorophenol containing not more than 5 carbon atoms in each alkyl group.

2,650,833

WOOD PRESERVATION WITH DIMETHYL TETRACHLOROPHTHALATE

Harry G. Walker, Langhorne, Pa., assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application December 2, 1950, Serial No. 198,904

6 Claims. (Cl. 167—33.6)

1. A composition for treating wood to protect the wood against termite attack comprising dimethyl tetrachlorophthalate, an organic solvent for said dimethyl tetrachlorophthalate, and water, said water being present in amounts in excess of said dimethyl tetrachlorophthalate.

2,650,834

RIBOFLAVIN-MONOBORATE AND PROCESS FOR PREPARATION THEREOF

Richard De Mott Fine III, Merchantville, N. J., assignor to McNeil Laboratories, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application June 16, 1948, Serial No. 33,444

17 Claims. (Cl. 167—81)

1. As a product having therapeutic value, an alkali metal salt of riboflavin monoborate hav-

ing the empirical formula $C_{17}H_{20}O_6N_4BM$, wherein M is an alkali metal selected from the group consisting of sodium, potassium, and lithium.

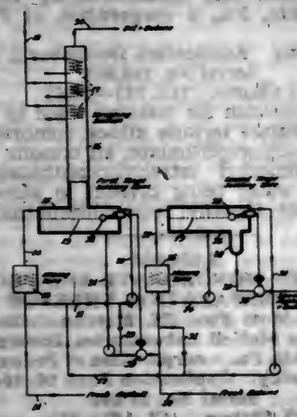
2,650,895
SPRAY DRIED VITAMIN A AND D EMULSION
John Clarence Wallenmeyer, Francis Guy McDonald, and Robert Lloyd Henry, Evansville, Ind., assignors to Mead Johnson & Company, Evansville, Ind., a corporation of Indiana
No Drawing. Application February 24, 1947, Serial No. 730,562
12 Claims. (Cl. 167—81)

12. The process of making a vitamin preparation in the form of a powder containing a dispersion of fat soluble vitamins comprising the steps of preparing an emulsion in which droplets of vitamin A and D concentrate dissolved in a fatty carrier are dispersed in an aqueous solution of an edible substance consisting essentially of dextrins, sugars, and an edible vegetable gum, and spray drying said emulsion to form a body of discrete particles in which the finely dispersed portions of said fatty carrier are substantially encapsulated by said edible substance.

2,650,896
CYANIDE ION IN PRODUCTION OF VITAMIN B_{12}
Lloyd E. McDaniel, Plainfield, and Harold R. Woodruff, Westfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application May 11, 1950, Serial No. 161,424
10 Claims. (Cl. 195—114)

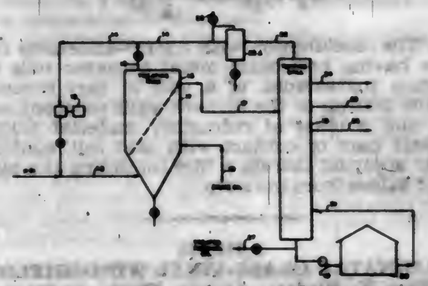
1. In the production of vitamin B_{12} and vitamin B_{12}-like materials by fermentation of a nutrient medium with a vitamin B_{12} producing organism, the improvement which comprises conducting the fermentation in the presence of a substance furnishing a source of cyanide ion in an amount within the range of about 0.1 to 100 parts per million.

2,650,897
SOLVENT EXTRACTION OF ASPHALTIC RESIDUES
Rudolph C. Woerner, Homewood, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application May 21, 1949, Serial No. 94,583
1 Claim. (Cl. 196—14.46)



In the production of oily compositions from asphaltic residua in which a mixture of butane solvent and asphalt in a solvent to asphalt ratio exceeding about 5:1 is mixed in an extraction zone at an elevated temperature below the critical temperature of the solvent and under superatmospheric pressure sufficient to maintain the solvent in the liquid phase, and in which an upper layer of butane solvent rich in extracted oil and a lower layer rich in asphalt are later formed, the improvement which comprises withdrawing a portion of said upper layer from the extraction zone, intimately mixing said portion of the upper layer with the asphaltic feed before the asphaltic feed contacts the raw solvent stream and before the asphaltic feed is charged to the extraction zone, withdrawing a portion of said lower layer from the extraction zone, intimately mixing said portion of the lower layer with the raw solvent stream before the raw solvent stream contacts the asphaltic feed and before the raw solvent stream is charged to the extraction zone.

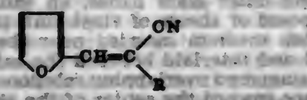
2,650,898
PROCESS FOR REMOVING ASPHALTENES FROM CRUDE OIL
Everett N. Case, Homewood, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application October 27, 1951, Serial No. 253,500
2 Claims. (Cl. 196—39)



1. A method for removal of asphaltenes and metal contaminants from crude oil prior to desalting and conventional refining procedures which comprises saturating the crude at a pressure from 15 to 200 pounds per square inch gauge with a precipitating agent consisting of gaseous hydrogen chloride and separating the agent and precipitated matter from the treated crude.

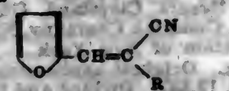
2,650,899
STABILIZATION OF POLYMERIZABLE AROMATIC COMPOUNDS
Robert Noble Haward and Edward Teggin Berrows, Manchester, England, assignors to Petrocarbon Limited, London, England
No Drawing. Application March 31, 1952, Serial No. 279,684. In Great Britain April 5, 1951
11 Claims. (Cl. 202—57)

1. A process for stabilising a polymerisable, liquid, aromatic compound having a $CH_2{=}C<$ group in the molecule which comprises incorporating in the polymerisable compound as an inhibitor against polymerisation a compound of the general formula



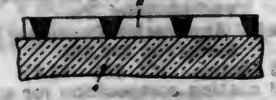
where R is selected from the group consisting of CN and $COOC_nH_{2n+1}$, n being not greater than 4.

3. A composition of matter comprising a polymerisable, liquid, aromatic compound having a $CH_2{=}C<$ group in the molecule and as an inhibitor against polymerisation a compound of the general formula



where R is selected from the group consisting of CN and $COOC_nH_{2n+1}$, n being not greater than 4.

2,650,900
METHOD OF PRODUCING METAL MESH SCREENS
Herbert Edward Holman, Middlesex, England, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, a British company
Application November 26, 1947, Serial No. 788,200
In Great Britain November 27, 1946
9 Claims. (Cl. 204—11)



1. A method of producing a metal mesh screen with the aid of a body of thermoplastic material having the property of elastic memory at temperatures below a limiting elastic temperature, said method comprising the steps of heating said body to soften it at a temperature below its limiting elastic temperature, pressing a mesh-shaped impression into the surface of the softened body to develop internal stresses in said body tending to efface said impression, depositing metal in the impression to form the mesh, and heating said body to release said stresses and cause said impression to be effaced, whereby the metal mesh is displaced from the body.

2,650,901
ELECTROPLATING ON ALUMINUM
Kune L. van der Horst, Portville, N. Y., assignor to Van der Horst Corporation of America, Olean, N. Y., a corporation of Delaware
No Drawing. Application June 3, 1949, Serial No. 97,912
7 Claims. (Cl. 204—33)

1. The method of preparing an aluminum article for electroplating which comprises vapor blasting that portion of the article that is to be plated, with a mixture of air, water and abrasive particles and thereby breaking down the adherent film of oxide thereon to expose a new surface, the abrasive particles being of from about one hundred mesh to about twelve hundred and fifty mesh, and subjecting said portion of the article to the action of caustic alkali and alkali zincate to produce a deposit of zinc on said portion of the article.

2,650,902
ELECTRODEPOSITION ON MAGNESIUM AND MAGNESIUM-BASE ALLOYS
William F. Higgins, Salford, England, assignor to Magnesium-Elektron Limited, Clifton Junction, England
No Drawing. Application June 6, 1949, Serial No. 97,481. In Great Britain June 16, 1948
5 Claims. (Cl. 204—33)

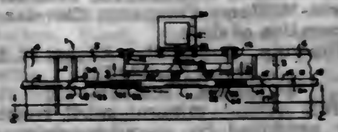
1. A process for the treatment of magnesium and magnesium base alloys which consists in immersing the magnesium-containing article in a first solution of a compound selected from the group consisting of the salts of zinc, cadmium, and manganese which are soluble in water and are decomposed by the magnesium to produce a metallic coating of one of these metals on the article, contacting the coated article with an aqueous chromic acid solution which leaves the surface of the metallic coating in a passive condition, and then contacting the coated article with a solution of at least one of the salts of the group consisting of a cyanide of mercury and a nitrate of mercury which leaves the surface of the metallic coating in a condition suitable for electroplating, and thereafter electroplating the coated article.

2,650,903
PROTECTION OF MOLYBDENUM AGAINST OXIDATION
John W. Garrison, Arlington, and Albert R. Lovett, East Orange, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 5, 1947, Serial No. 759,256
9 Claims. (Cl. 204—33)



2. The method of protecting articles of molybdenum and alloys thereof consisting mainly of molybdenum against oxidation, comprising placing said article in a solution of a salt of cobalt, electroplating cobalt from said solution on said article, making a slip of finely-divided silica and glass, applying a coating of said slip to the plated article, drying, and fusing said coating thereon in a hydrogen atmosphere at a temperature above 1300° C. and high enough to generate hydrogen silicide and cause it to react with the surface of said article.

2,650,904
OSCILLATING RAIL FOR WORK-IMMERSION MACHINES
John V. Davis, Charles W. Chill, and Leon J. Pianowski, Detroit, Mich., assignors to The Udylite Corporation, Detroit, Mich., a corporation of Delaware
Application December 15, 1949, Serial No. 133,121
2 Claims. (Cl. 204—232)



1. A rail for work-conveying machines comprising a fixed section and an axially alined slidable section, the meeting ends of said sections having vertical lengthwise slots forming vertical fingers, the fingers of each section being slidably received in the slots of the other section, thereby forming lengthwise sliding joints, means for oscillating the slidable section longitudinally, the uppermost outer surfaces of said sections being of like contour and continuous with each other throughout the length of said sections and at

their joints, whereby a member suspended from either section may be slid smoothly to the other section without vertical or lateral displacement.

2,650,905
MODIFIED DRILLING FLUIDS
Reid G. Ferdyce and Massimo Baer, Springfield, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application March 1, 1950, Serial No. 147,140
18 Claims. (Cl. 252—8.5)

1. A drilling mud containing a minor proportion of a sulfonated polystyrene which is a sulfonate of a polymer of styrene which has a molecular weight of from 10,000 to 400,000 and which contains an average of 0.7 to 2.0 sulfonic acid groups per styrene unit, the amount of said sulfonated polystyrene being restricted to from 0.5 to 4 pounds per 42-gallon barrel of drilling mud.

2,650,906
PREPARATION OF IMPREGNATED TYPE TUNGSTEN AND MOLYBDENUM CATALYSTS
Willem Frederik Engel and Han Hoog, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application March 28, 1950, Serial No. 152,512. In the Netherlands March 31, 1949
2 Claims. (Cl. 252—470)

1. In the preparation of a catalyst containing a combination of elements selected from the group consisting of molybdenum and cobalt, tungsten and cobalt, tungsten and nickel, and mixtures thereof impregnated in a foraminous carrier material, the improvement which comprises impregnating the elements of said combination simultaneously in the said foraminous carrier material by means of an aqueous alkanolamine solution of water-soluble compounds of said elements which are converted to the corresponding oxides upon calcination, and calcining the thus impregnated foraminous carrier material to convert the said compounds to the corresponding metal oxides.

2,650,907
STYRENE-COPOLYMER AND METHOD OF PRODUCING THE SAME
James H. Sample, Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application August 18, 1950, Serial No. 180,321
24 Claims. (Cl. 260—23)

1. A fast drying, mineral spirit resistant copolymer produced by co-polymerizing a vinyl aromatic compound and a non-conjugated unsaturated oil which has been partially polymerized by blowing with a free oxygen-containing gas and which is selected from the group consisting of drying oils and semi-drying oils at a temperature of from about 225° F. to about 500° F. in the presence of from 0.02% to about 1% by weight of the oil of a heavy metal drier soluble in the oil and from 0.5% to about 2.0% by weight of the oil of a metal-free peroxide, in which copolymer the ratio of vinyl aromatic compound to oil is in the range of from 60:40 to 25:75.

2,650,908
VINYL CHLORIDE POLYMER PLASTICIZED WITH 3,5,5 - TRIMETHYL - 1 - HEXANOL-POLYBASIC ACID ESTER
Warren L. Becars, Cleveland, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Original application April 8, 1948, Serial No. 19,897. Divided and this application March 13, 1951, Serial No. 215,289
6 Claims. (Cl. 260—30.6)

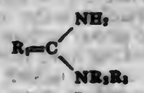
1. A composition of matter comprising a polymer of vinyl chloride, and, as a plasticizer therefor, an ester of 3,5,5-trimethyl-1-hexanol with a polybasic acid selected from the class consisting of boric acid, phosphoric acid, carbonic acid and organic polycarboxylic acids.

2,650,909
COATING COMPOSITIONS
Carl L. Betsch and Fred H. Detrick, Philadelphia, Pa.
No Drawing. Application December 2, 1951, Serial No. 260,226
2 Claims. (Cl. 260—31.8)

1. A liquid coating composition for application to the surfaces of plastic materials, said composition being characterized by the fact that it becomes bonded to plastic materials without heat and pressure and is resistant to molding treatment, including heat, said composition comprising the following materials in substantially the proportions indicated: 20 pounds pigment, 2½ fluid ounces wetting agent, 3½ to 6 gallons acrylic resin, 50 fluid ounces dibutyl oxalate and 80 fluid ounces to 1 gallon butyl lactate, said resin being selected from the group consisting of polymerized methylacrylate and polymethyl-methacrylate.

2,650,910
WATER-SOLUBLE UREA-ALDEHYDE CONDENSATION PRODUCTS AND THE PROCESS OF MAKING SAME
Franz Köhler, Aschaeh (Bergstrasse), Germany, assignor to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Frankfurt am Main, Germany, a corporation of Germany
No Drawing. Application April 5, 1950, Serial No. 154,195. In Germany April 12, 1949
11 Claims. (Cl. 260—68)

9. A process for the production of a water soluble urea-aldehyde resinous product which comprises heating at least one compound of the general formula



in which R_1 is selected from the group consisting of oxygen, sulfur and nitrogen, and R_2 and R_3 are selected from the group consisting of hydrogen, alkyl, alkenyl, aryl, acyl radicals of saturated acids and acyl radicals of unsaturated acids in the presence of water and an ammonia compound selected from the group consisting of ammonia and alkyl, oxalkyl and hydroxyl substituted ammonia in a proportion of 1 mole of the component of the above general formula to 0.01 to 0.5 mole of the ammonia compound, thereafter adding at least one aldehyde to the reaction product and condensing the reaction product with such aldehyde, only at a pH below 7.

2,650,911
COPOLYMERS OF VINYLIDENE CYANIDE WITH ALKENYL ESTERS OF MONO-BASIC ACIDS
Harry Gilbert, Cuyahoga Falls, Floyd F. Miller and Vernon L. Feit, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application February 25, 1950, Serial No. 146,412
8 Claims. (Cl. 260—78.5)

1. A copolymer of vinylidene cyanide and an ester of a mono-basic acid with an alcohol selected from the class consisting of allyl and metallyl alcohols, the vinylidene cyanide in said copolymer being derived from monomeric vinylidene cyanide which is a liquid at room temperature and a crystalline solid at 0° C., having a melting point when in purest form of substantially 9.0° C. to 9.7° C. and being characterized chemically by the ability to undergo on contact with water at room temperature an instantaneous homopolymerization reaction to give a solid, water-insoluble resin, said copolymer resulting from the polymerization of a mixture consisting of vinylidene cyanide and said ester, said mixture containing from 0.1 to 99 mole per cent of vinylidene cyanide.

2,650,912
HEAT-TREATMENT OF COAGULATED THERMOPLASTIC POLYMER LATICES
Henry Malcolm Hutchinson, Ramsland, England, assignor to The Distillers Company Limited, Edinburgh, Scotland, a British company
No Drawing. Application April 18, 1950, Serial No. 156,710. In Great Britain April 22, 1949
8 Claims. (Cl. 260—93.5)

1. A process which comprises heating an aqueous slurry of a thermoplastic emulsion polymer of a compound selected from the group consisting of styrene and its polymerisable nuclear methyl and chlorine substitution derivatives under pressure at a temperature of about 100–120° C. for about 5 minutes to about one hour.

2,650,913
2,2-BIS-(TERTIARY BUTYL PEROXY) BUTANE CATALYST FOR ETHYLENE POLYMERIZATION
Thomas Boyd, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application March 23, 1950, Serial No. 151,551
3 Claims. (Cl. 260—94.9)

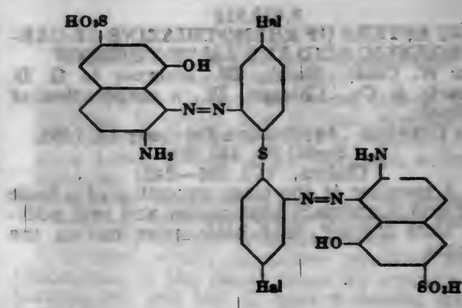
1. A process which comprises polymerizing 100 parts of substantially oxygen-free ethylene at from 260° C. to 300° C. at a pressure of from 3000 to 2500 atmospheres pressure for two hours in contact with from 0.1 to 0.01 part of 2 2-bis(tertiary butyl peroxy) butane, whereby from 75 to 60% yields of polyethylene are obtained.

2,650,914
METHOD OF IODINATING PROTEINS AND THEIR DERIVATIVES
William R. Graham, Jr., Wilmette, Ill., George O. Kohler, Mission, Kans., and Richard D. Hoover, Kansas City, Mo., assignors to American Dairies, Incorporated, Kansas City, Mo., a corporation of Maryland, and The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey, jointly
No Drawing. Original application October 12, 1947, Serial No. 779,644. Divided and this application June 4, 1951, Serial No. 229,874
2 Claims. (Cl. 260—119)

1. A method of iodinating a proteinaceous material including the step of adding to the material an iodine bearing substance of the group consisting of molecular iodine and iodine salts in the presence of an oxidizing substance of the group consisting of alkali metal hyprochlorite and alkaline earth metal hypochlorite.

2,650,915
DISAZO DYESTUFFS
Guido Schetty, Basel, Switzerland, assignor to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm
No Drawing. Application October 2, 1951, Serial No. 249,625. In Switzerland October 18, 1950
2 Claims. (Cl. 260—178)

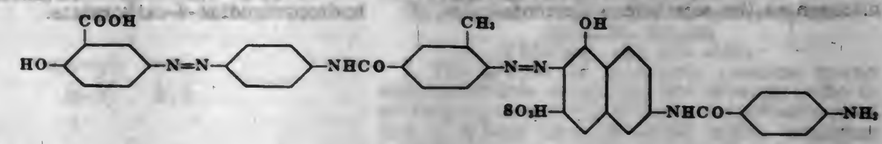
1. A disazo dyestuff of the general formula:



wherein Hal represents a halogen atom selected from the group consisting of Cl and Br atoms.

2,650,916
DISAZO DYESTUFFS
Hans Ischer, Basel, Switzerland, assignor to Sandoz A. G., Basel, Switzerland, a Swiss firm
No Drawing. Application July 5, 1951, Serial No. 235,263. In Switzerland July 6, 1950
6 Claims. (Cl. 260—187)

4. The disazo dyestuff of the formula



2,650,917

GUM ETHERS AND PROCESS THEREFOR

Owen A. Mee, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware

No Drawing. Application January 4, 1947, Serial No. 720,313

5 Claims. (Cl. 260—209)

1. An ether of a water-soluble derivative of a gum selected from the group consisting of galactomannans and glucomannans, said ether being the reaction product of said derivative and an etherification agent containing a plurality of etherifying groups, and said ether being characterized by being substantially free from water-soluble electrolytes and capable of producing a ¾% aqueous solution having a Brookfield viscosity not substantially less than 50,000 centipoises.

2,650,918

PIPERAZINE ESTROGEN SALT AND SEPARATION PROCEDURE

Desmond Beall, Westmount, Quebec, and Gordon A. Grant and Paul Emile Legault, Montreal, Quebec, Canada, assignors to Ayerst, McKenna & Harrison, Limited, Montee St. Laurent, Montreal, Quebec, Canada, a corporation of Canada

No Drawing. Application April 10, 1952, Serial No. 281,684

9 Claims. (Cl. 260—239.5)

1. 2:5 dimethyl piperazine di-equilin 3-monosulfate.

2,650,919

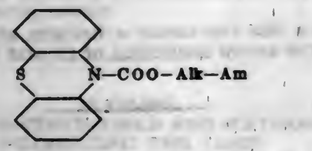
BASIC ESTERS OF PHENOTHIAZINE-10-CARBOXYLIC ACID AND SALTS THEREOF

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application February 11, 1950, Serial No. 143,829

7 Claims. (Cl. 260—243)

1. A member of the class consisting of a basic ester and quaternary ammonium and acid addition salts thereof, said basic ester having the formula



wherein Alk is a lower alkylene radical and Am is an amino radical selected from the class consisting of di(lower alkyl)amino, (lower alkyl)-(lower hydroxyalkyl)amino and saturated, monocyclic, heterocyclic amino radicals attached to Alk through nitrogen and containing oxygen and nitrogen as the sole hetero elements.

2,650,920

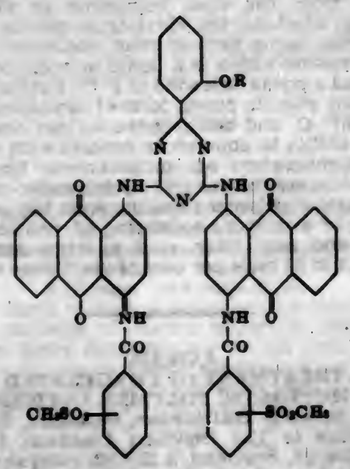
TRIAZINE VAT DYES

Mario Scalera, Somerville, and Elizabeth M. Hardy, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application September 27, 1951, Serial No. 248,657

7 Claims. (Cl. 260—249)

1. A dyestuff of the formula:



in which R is selected from the group consisting of H and the lower alkyl radicals.

2,650,921

2-KETO PYRIMIDINES

James M. Sprague, Drexel Hill, and Everett M. Schultz, Glenolden, Pa., assignors to Merck & Co., Inc., a corporation of New Jersey

No Drawing. Application March 23, 1948, Serial No. 16,614

9 Claims. (Cl. 260—251)

1. A 2-oxo-4-R_1-5-R_2-6-COOR-pyrimidine, in which the pyrimidine ring is at least partially hydrogenated and is a member of the class consisting of (*a*) the 2,3-dihydro-pyrimidine, and (*b*) the fully saturated hexahydro-pyrimidine; and wherein R is a member of the class consisting of hydrogen, a lower alkyl radical, an alkali metal and an ammonium group; R_1 is a member of the class consisting of a lower alkyl radical, phenyl and benzyl radicals, R_2 is hydrogen, and R_1 and R_2 jointly constitute a divalent polymethylene radical.

6. Ethyl 2 - oxo - 4,5 - tetramethylene-hexahydropyrimidine-6-carboxylate.

2,650,922

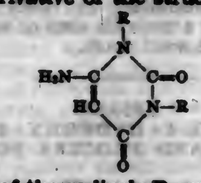
DISUBSTITUTED DERIVATIVES OF 6-AMINO-1,2,3,4 - TETRAHYDRO - 2,4 - PYRIMIDINEDIONES

Viktor Papesch, Morton Grove, and Elmer F. Schroeder, Chicago, Ill., assignors to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application December 29, 1951, Serial No. 264,248

12 Claims. (Cl. 260—256.4)

1. A 6-amino-1,2,3,4-tetrahydro - 2,4 - pyrimidinedione derivative of the structural formula



wherein one of the radicals R represents a lower, unsaturated, aliphatic hydrocarbon radical and the other radical R represents a member of the class consisting of lower alkyl, lower hydroxyalkyl, benzyl, and phenyl radicals.

2,650,923

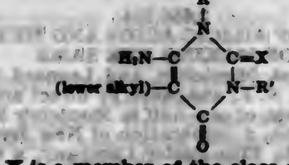
1 - ALKENYL - 5 - ALKYL - 6 - AMINO - 1,2,3,4-TETRAHYDRO - 2,4 - PYRIMIDINEDIONES AND DERIVATIVES THEREOF

Viktor Papesch, Morton Grove, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application May 23, 1952, Serial No. 289,063

12 Claims. (Cl. 260—256.4)

1. The compounds of the structural formula



wherein X is a member of the class consisting of oxygen and sulfur, one of the radicals R and R' represents a lower alkenyl radical and the other a member of the class consisting of lower alkyl, lower phenylalkyl, phenyl radicals and, in the case of R' only, hydrogen radicals.

2,650,924

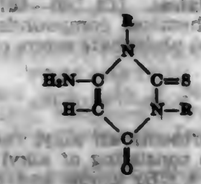
DISUBSTITUTED DERIVATIVES OF 2-THIO-6-AMINO-1,2,3,4-TETRAHYDRO-2,4-PYRIMIDINEDIONES

Viktor Papesch, Morton Grove, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application December 6, 1951, Serial No. 260,339

10 Claims. (Cl. 260—256.5)

1. 2 - thio - 6 - amino - 1,2,3,4 - tetrahydro-2,4-pyrimidinedione derivatives of the structural formula



wherein one of the radicals R is a lower alkenyl radical and the other radical R is a hydrocarbon radical containing no more than 8 carbon atoms.

2,650,925

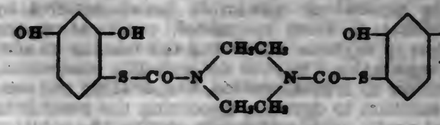
N,N'-PIPERAZINE DICARBAMATE OF 2,4-DIHYDROXYPHENYLTHIOL

Vasili Osperoff-Urse, Helsinki, Finland, assignor of one-half to Laaketehdas Orion Oy, Helsinki, Finland

No Drawing. Application July 3, 1948, Serial No. 37,955. In France May 2, 1948

1 Claim. (Cl. 260—268)

As a new product, a substance of the following formula:



2,650,926

HALOGENATED AMINO-ANTHRAQUINONYL-OXDIAZOLES

Frederic R. Stilmar, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 23, 1950, Serial No. 197,181

4 Claims. (Cl. 260—307.5)

1. 2,5 - di (1'-amino-2'-anthraquinonyl) -1,3,4-oxdiazoles which carry in at least one of the anthraquinone radicals in the 4' position a substituent from the group consisting of chlorine and bromine.

2,650,927

PROCESS FOR THE MANUFACTURE OF EPOXIDES

Edward James Gasson, Banstead, Alfred Frank Millidge, Coulsdon, and William Webster, Epsom, England, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company

No Drawing. Application July 27, 1951, Serial No. 239,014. In Great Britain March 28, 1949

11 Claims. (Cl. 260—348.5)

1. Process which comprises reacting alpha-diisobutene in the liquid phase at temperatures between 90° and 150° C. with molecular oxygen in the presence as a catalyst of a compound of a metal selected from the group consisting of cobalt, lead, manganese, iron, vanadium, nickel, tungsten, copper, cerium, zinc, cadmium, chromium and silver and maintaining in the reaction mixture a pH between about 7 and 10.5 whereby 1:2-epoxy-2:4:4-trimethylpentane is produced.

2,650,928

PROCESS FOR THE PREPARATION OF PURE BROMO-α-AMINO ANTHRAQUINONES

Guido R. Costa, Hillside, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 19, 1950, Serial No. 201,600

3 Claims. (Cl. 260—381)

1. The process of producing α-amino bromo anthraquinones containing the bromine ortho to an amino group in a practically quantitative yield and in a high state of purity which comprises brominating an α-amino anthraquinone containing a free position ortho to an amino group by dissolving the α-amino anthraquinone in a fused melt of an aluminum halide and an alkali metal halide and adding bromine thereto.

2,650,929
PROCESS FOR ISOLATION OF CHOLESTEROL FROM WOOL WAX ALCOHOLS
Colin Leslie Hewett, Lancaster Place, London, England
No Drawing. Application February 23, 1949, Serial No. 78,896. In Great Britain February 27, 1948
5 Claims. (Cl. 260—397.2)

1. A process for isolating cholesterol from the non-saponifiable component of wool grease comprising separating unwanted iso-cholesterol by crystallisation from methanol, evaporating the solution to dryness, dissolving the residue in acetone, separating a part of the wax-like compounds therefrom by crystallisation, evaporating the acetone solution to dryness, dissolving the residue in glacial acetic acid, and slowly cooling the solution to the range 20 to 25° C. to precipitate the desired cholesterol substantially free from wax-like impurities.

2,650,930
PROCESS FOR THE MANUFACTURE OF BROMO-CHOLADIENES
Karl Miescher, Riehen, Albert Wettstein, Basel, and Jules Heer, Binningen, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.
No Drawing. Application October 23, 1952, Serial No. 316,552. In Switzerland December 29, 1951
4 Claims. (Cl. 260—397.4)

1. Process for the preparation of $\Delta^{20,22}$-21-bromo-choladienes, which comprises reacting a Δ^{22}-24,24-diaryl-cholene with an N-bromo-dicarboxylic acid imide in the presence of an unsaturated aliphatic hydrocarbon halide.

2,650,931
METHOD OF REMOVING METALLIC CONTAMINANTS FROM HYDROGENATED OILS
Douglas W. Dron, Poughkeepsie, N. Y., and Frank A. Lindsey, Jr., Fredericksburg, Va., assignors to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application March 30, 1951, Serial No. 218,312
7 Claims. (Cl. 260—409)

1. A method for treating hydrogenated vegetable or animal oil to remove therefrom metallic contaminants resulting from the hydrogenation, which comprises feeding the oil through a filtering zone to remove catalyst material remaining in the oil after the hydrogenating operation, passing the filtered oil from said zone through a mixing zone and there mixing it intimately with an aqueous solution of an acid in which the metallic contaminants are soluble, feeding the mixture from said last zone to a locus of centrifugal force and there separating it into an inner layer comprising cleaned oil and an outer layer comprising an aqueous acid solution in which the metallic contaminants are dissolved or suspended, and continuously and separately discharging oil and acid solution from the respective layers and said locus.

2,650,932
METHOD OF PREPARING METALLIC SOAPS OF FATTY ACIDS
Leonard M. Kebrich, Brooklyn, and Adrian R. Pitrat, Hempstead, N. Y., assignors to National Lead Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application April 13, 1950, Serial No. 155,796
8 Claims. (Cl. 260—413)

1. A method for production of a metallic soap of a fatty acid containing more than 6 carbon atoms which comprises forming an aqueous emulsion of said acid in molten condition and slowly adding said emulsion to an agitated aqueous suspension of a compound selected from the group consisting of oxides and hydroxides of lithium, calcium, strontium, barium, magnesium, aluminum, zinc and lead in the presence of an amount between 0.1 and 0.6% of the total system of a nitrogenous base catalyst characterized by water solubility in excess of 500 grams per liter, an ionization constant of greater than 10^{-9} and a pH value exceeding 9.0 in one tenth normal solution all characteristics at room temperature thereby forming a metallic soap of said fatty acid in finely divided solid form.

2,650,933
HIGHER ALKYL 4-HYDROXY-3-ETHOXY-BENZOATE AND PROCESS FOR MAKING SAME
Irwin A. Pearl, Appleton, Wis., assignor to The Institute of Paper Chemistry, Appleton, Wis., a corporation of Wisconsin
No Drawing. Application March 8, 1952, Serial No. 275,689
3 Claims. (Cl. 260—453)

3. The process for producing an acid salt of 4-hydroxy-3-ethoxybenzimidate which comprises the steps of reacting 4-hydroxy-3-ethoxybensonitrile with an alkyl alcohol containing from eight to ten carbon atoms in the presence of an anhydrous acid and under anhydrous conditions while preventing nitration and demethylation.

7. A 4-hydroxy-3-ethoxyalkylbenzimidate acid salt in which the alkyl constituent contains from eight to ten carbon atoms.

2,650,934
ESTERS OF SILICIC ACIDS AND METHODS OF MAKING THE SAME
John B. Rust, Montclair, and Leonard Spialter, Irvington, N. J., assignors, by direct and mesne assignments, of one-half to Montclair Research Corporation, a corporation of New Jersey, and one-half to Ellis-Foster Company, a corporation of New Jersey
No Drawing. Application September 21, 1945, Serial No. 617,920
6 Claims. (Cl. 260—448.8)

1. The method of preparing halo esters of silicic acids which comprises reacting silicon tetrachloride with an epoxide containing three carbon atoms.

2,650,935
MONOALKYL DINAPHTHYL PHOSPHATE ESTERS
Harry R. Gamrath, St. Louis, and William E. Wessner, Webster Groves, Mo., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application April 21, 1949, Serial No. 88,892
3 Claims. (Cl. 260—461)

1. As new chemical compounds, the monoalkyl dinaphthyl phosphate esters of the type

$$R_1—O—\overset{\overset{O}{\|}}{P}—(O—R_2)_2$$

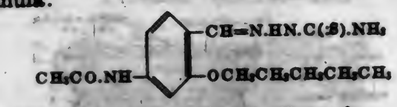
wherein R_1 represents an alkyl radical selected from the group consisting of alkyl radicals terminating with a CH_3 group and containing at least 6 and not more than 18 carbon atoms and beta-alkoxyethyl radicals wherein the alkyl substituent contains at least 4 and not more than 18 carbon atoms and R_2 is a naphthyl radical.

2,650,936
PREPARATION OF HYDROXY-CARBOXYLIC ACIDS
Hans Schmidt, Wuppertal-Vohwinkel, Germany, assignor, by mesne assignments, to Schenley Laboratories, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Original application November 17, 1949, Serial No. 128,024. Divided and this application October 10, 1951, Serial No. 250,793. In Germany October 20, 1948
4 Claims. (Cl. 260—528)

1. In a process for the production of aliphatic polyhydroxymonocarboxylic acids by oxidation of a reducing sugar with an oxygen-containing gas in an aqueous alkaline reaction medium, the improvement that comprises performing this oxidation while having present in the reaction medium, a catalytically effective amount of catalyst comprising a simple mononuclear aromatic compound having a nuclear substituent of the group consisting of nitro and nitroso.

2,650,937
SUBSTITUTED BENZALDEHYDE-THIOSEMICARBAZONE
Leon Katz, Cincinnati, Ohio, assignor to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application April 12, 1951, Serial No. 220,714
1 Claim. (Cl. 260—553)

Chemotherapeutic agents represented by the formula:



and simple mineral acid salts thereof.

2,650,938
METHOD OF SEPARATING OPTICAL ISOMERS
Alexander Gero, Media, Pa.
No Drawing. Application December 2, 1947, Serial No. 789,231
2 Claims. (Cl. 260—570.6)

1. In a method of optically resolving a mixture of enantiomorphs of a soluble salt of epinephrine containing a greater amount of one enantiomorph than the other, the step of adding to a solution of said mixture an amount of alkali sufficient to precipitate a fraction only of the total epinephrine present in said solution to yield a precipitate having an increased percentage of the particular enantiomorph which predominated in the initial mixture, in then dissolving said precipitate in an acid, in thereafter again adding to said last-obtained solution an amount of alkali sufficient to precipitate a fraction only of the epinephrine contained in said last-obtained solution, and in repeating such cycle of operations until the end resultant product consists of the originally predominating enantiomorph in substantially pure state.

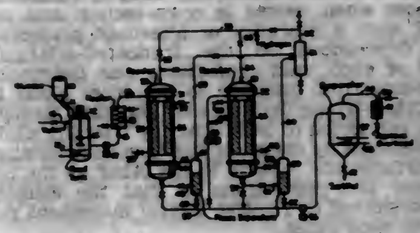
2,650,939
HEXACHLOROCYCLOPENTENONE PREPARATION
Earl T. McBee and Jack S. Newcomer, West Lafayette, Ind., assignors to Purdue Research Foundation, West Lafayette, Ind., a corporation of Indiana
No Drawing. Application October 1, 1948, Serial No. 52,405
3 Claims. (Cl. 260—586)

1. A process for the production of hexachlorocyclopentenone which comprises heating together octachlorocyclopentene and more than an equimolecular proportion of aqueous sulfuric acid having a concentration in excess of approximately 50 percent by weight of H_2SO_4, and subsequently recovering the hexachlorocyclopentenone from the reaction mixture.

2,650,940
MANUFACTURE OF GLYCOLS
Donald Peter Young, Sanderstead, England, assignor to The Distillers Company Limited, Edinburgh, Scotland, a British company
No Drawing. Application February 23, 1951, Serial No. 212,479. In Great Britain March 11, 1950
8 Claims. (Cl. 260—618)

7. Process for the manufacture of 1-phenylethane-1:2-diol which comprises heating 1:2-epoxy-1-phenylethane in a closed vessel in intimate contact with an aqueous alkaline solution to a temperature between 90° and 200° C.

2,650,941
CONVERSION OF CARBOHYDRATES TO POLYHYDRIC ALCOHOLS
Jacob Koome and Christiaan Nicolaas Jacobus de Neeijer, Amsterdam, Netherlands, assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware
Application March 20, 1951, Serial No. 216,506
In the Netherlands April 6, 1950
15 Claims. (Cl. 260—635)



5. The process for the conversion of a monosaccharide to hexitol which comprises passing an aqueous solution of said monosaccharide and hydrogen downwardly through a bed of solid catalyst consisting essentially of about 25% to about 90% nickel in intimate admixture with about 75% to about 10% of solid carrier material, about 20% to about 60% of said nickel content being in the form of nickel silicate, the remainder of said nickel content being in the form of reduced nickel, at a temperature of from about 100° C. to about 180° C., and a pressure of from about 25 to about 200 atmospheres.

2,650,942
PRODUCTION OF HEXACHLOROCYCLOPENTADIENE
Aylmer Henry Maude and David Solomon Rosenberg, Niagara Falls, N. Y., assignors to Hooker Electrochemical Company, Niagara Falls, N. Y., a corporation of New York
No Drawing. Application March 29, 1951, Serial No. 216,651
13 Claims. (Cl. 260—648)

1. The process which includes: passing a vapor phase mixture C_5 chlorohydrocarbon containing more than two chlorine atoms per molecule and chlorine in at least the theoretical quantity required to produce hexachlorocyclopentadiene into

contact with a porous surface active inorganic solid in the fore portion of a reaction zone, said zone being maintained at a starting temperature in the said fore portion from above 300 degrees centigrade and below about 430 degrees centigrade to a final temperature in a latter unpacked portion of the reaction zone above 450 degrees centigrade and below about 525 degrees centigrade; and, separating hexachlorocyclopentadiene from the reaction zone effluent.

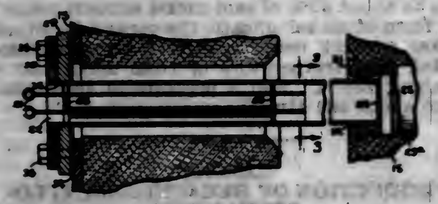
ELECTRICAL

2,650,943
ELECTRODE OF CARBON
Friedrich Leuchs and Hans Zöllner, Rothenbach (Pegnitz), Germany, assignors to C. Conradty, Nuremberg, Germany
Application January 12, 1951, Serial No. 205,628
In Germany January 3, 1950
4 Claims. (Cl. 13—18)



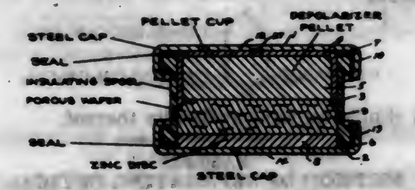
1. Electrode connection, particularly for carbon and graphite electrodes for electrical ovens particularly of rectangular cross-section, comprising two complementary connecting elements having truncated-triangular shaped connecting surfaces when viewed in cross-section and provided with a plurality of alternate projections and depressions on the truncated-triangular faces of each, said projections and depressions extending from one side to the other along the truncated-triangular surfaces and said elements being connected to each other by laterally sliding the elements by means of the truncated-triangular surfaces one relative to the other by the projections and depressions so that the elements are connected by relative lateral movement parallel to each other.

2,650,944
ELECTRIC HEATING APPARATUS
Harold N. Ipsen, Rockford, Ill.
Application October 4, 1951, Serial No. 249,767
1 Claim. (Cl. 13—25)



Heat apparatus having, in combination, means defining a chamber to be heated and including a pair of laterally spaced upright walls, a first one of said walls having means defining a recess opening inwardly into said chamber and closed at its outer end, and the second one of said walls having a hole therethrough alined with said recess, a tube substantially smaller in external dimension than said hole and said recess, said tube spanning said walls and having an open end extending through said hole and secured to said second wall and a closed end extending into said recess short of the end thereof to rest on the defining surface of said recess whereby to permit free expansion and contraction of the tube by movement of said closed tube and toward and away from said outer end of said recess, means to seal said hole around said tube, an electrical resistance heating element disposed within said tube intermediate the ends thereof, and a pair of conductors connected to said resistance and extending through said open tube end to provide terminals disposed on the outside of said chamber

2,650,945
PRIMARY DRY CELL
William S. Herbert, Madison, Wis., assignor to Ray-O-Vac Company, Madison, Wis., a corporation of Wisconsin
Application July 8, 1949, Serial No. 103,593
23 Claims. (Cl. 136—111)

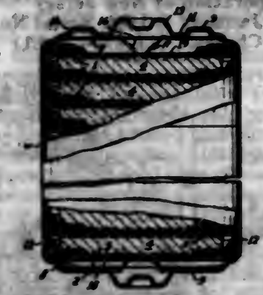


1. A primary dry cell comprising a pair of matching conductive, metallic caps, the side walls of each of which are crimped around flanges at opposite ends of a hollow-bored substantially rigid insulating spool, the side walls of which are imperforate, the said metallic caps having flat exterior faces which provide, respectively, symmetrical positive and negative cell terminals insulated from each other and disposed at opposite ends of the cell, the said caps and the said hollow-bored insulating spool cooperating to form a sealed, substantially fluid-tight, interior compartment within the cell and within which cell reactants including depolarizer are disposed.

2,650,946
BATTERY
Gunnar A. F. Winckler, Milford, Wilbur H. Rose, Hamden, and Otto Karl Reinhardt, West Haven, Conn., assignors to Olin Industries, Inc., New Haven, Conn., a corporation of Delaware
Application February 25, 1950, Serial No. 146,242
3 Claims. (Cl. 136—111)

1. A flat type dry cell battery comprising a plurality of substantially flat cell elements arranged in proper order to form a plurality of cells with the anode of each cell in electrical contact with the cathode of the adjacent cell and with electrodes of opposite polarity at opposite ends of the battery, an end terminal member for each

end of the battery, each of the end terminal members comprising a cup-like member having side walls engaging the walls of the battery to hold the end terminal member in place and a bottom having a terminal, and a spring contact member



in each end terminal member, each spring contact member comprising a substantially flat strip secured against the bottom member of the terminal and having a tongue extending therefrom to engage the end electrode of the battery.

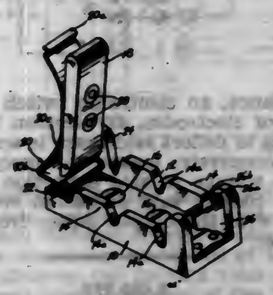
2,650,947
PRIMARY BATTERY
Le Roy S. Dunham, East Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application March 24, 1950, Serial No. 151,743
7 Claims. (Cl. 136—164)



1. In a primary cell of the water-activatable deferred-action type comprising a case provided with a filler opening: the combination of cathode and anode elements in said case; a dry granular mix of water-soluble electrolyte ingredient and electrolyte-regenerating material filling said case to a predetermined level; a filler tube extending downwardly from said opening to the bottom of said case, said tube being impervious throughout the height of said mix and having an outlet at its lower end for directing water, which is added to the cell through said opening, to the bottom of said mix; a water-pervious barrier at said level for confining said mix to the lower portion of the case; and a mass of dry water-soluble electrolyte ingredient in said case above said barrier.

2,650,948
WIRE HOLDER
James A. Findlay, near Bellevue, Wash., assignor to Boeing Airplane Company, Seattle, Wash., a corporation of Delaware
Application April 12, 1951, Serial No. 220,955
11 Claims. (Cl. 174—168)

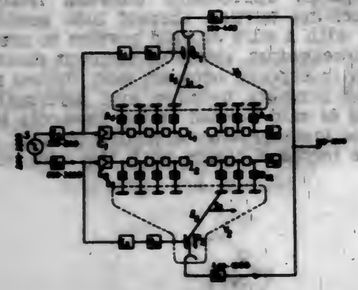
1. A wire holder comprising a base member adapted for mounting on an independent support and having a wire-receiving portion thereon adapted to supportingly receive thereagainst a wire extending across said base member, and thereby to locate such wire in spaced relation to the independent support, a pressure member, means pivoted on said base member and carrying said pressure member for swinging thereof inwardly toward said base member from a position spaced appreciably outward from said wire-receiving portion thereof into position of contact with a wire on said portion to press the same thereagainst, yieldable resilient means operatively interposed between said pivoted means and said pressure member and deformable by swinging of said pivoted means inwardly toward said base member after arresting contact of the pressure member occurs with the wire, the resilient force of said resilient means, hence the pressure of said pressure member against the wire increasing with further inward swinging of said pivoted means, a first securing element fixed on said base member at a distance from the pivot axis of said pivoted means, and a cooperating securing element carried by said pivoted means in position thereon to engage said first securing element upon inward swinging of said pivoted means into predetermined general spaced relation thereto, corresponding to the closed position of the holder, engagement of said securing elements establishing and maintaining said pivoted means in the same closed position relative to said base member for different sizes of wire interposed between said wire-receiving portion and said pressure member.



2,650,949
SYSTEM OF CHANGING THE FREQUENCY BAND OCCUPIED BY A TELEPHONIC TRANSMISSION
Henri Maurice Veaux, St. Leu la Foret, France
Application July 29, 1948, Serial No. 167,424
In France July 9, 1948
1 Claim. (Cl. 179—15.55)

In a communication system; apparatus for transmitting pseudo-periodical input signals characterized by a slow and continuous modification of a period, whereby successive periods are substantially identical, comprising a duration-conversion mechanism providing a desired rate of division, means to apply the input signals to said mechanism, a control device responsive to the input signals for initiating the operation of said mechanism and including means to produce a pulse for any zero value of the input signals, means for counting the pulses to produce one output pulse for a number of counted pulses determined by the desired rate of division and means to apply said output pulses to said mech-

anism to initiate its operation to produce output signals corresponding to the extension of the original signals in the time occupied by the suppressed periods resulting from the repetition of the same period, said mechanism including a delay line having a plurality of spaced taps thereon, said line terminating in its characteris-



tic impedance, an electronic switch including a plurality of electrodes, an electron beam source and means to deflect said beam to scan said electrodes successively, means to apply a periodic deflection voltage to said deflection means, and means to control said deflection voltage in accordance with the output pulses from said control device.

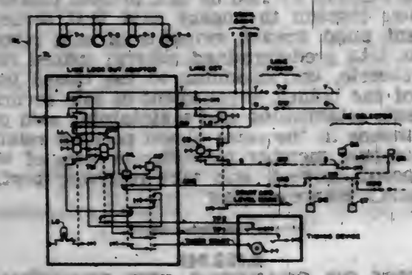
2,650,950

TELEPHONE LINE LOCKOUT ADAPTER

Frank Kessler, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York

Application May 26, 1948, Serial No. 29,235

10 Claims. (Cl. 179—18)



1. In a line circuit for automatic telephone systems, a first line relay and a second line relay for said line circuit, a cut off relay for said line circuit, a four-conductor link circuit connectable to said line circuit and comprising tip, ring, sleeve and auxiliary conductors, means responsive to a closed circuit condition on said line circuit for operating said first line relay, means responsive to the operation of said first line relay for effecting the connection of said link circuit to said line circuit and the operation of said cut off relay over said sleeve conductor and the consequent release of said first line relay, means controlled in response to the operation of said first line relay and utilizing said auxiliary conductor for preparing a circuit for said second line relay, means for completing said prepared circuit whereby said second line relay is operated, and locking means including said closed line circuit for maintaining said second line relay operated.

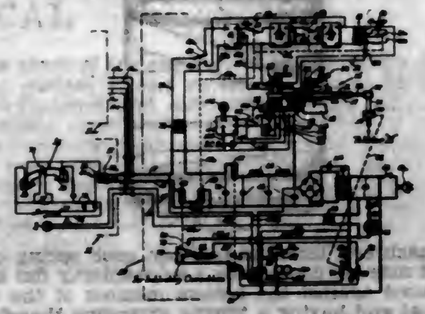
2,650,951

REMOTELY CONTROLLED RECORDING SYSTEM

Richard Kobler, New York, N. Y., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey

Application January 6, 1951, Serial No. 204,794

19 Claims. (Cl. 179—100.1)



1. In a remotely-controlled phonographic system comprising an attendant's station including a phonographic machine having a rotatable record-supporting device, a translating device, means mounting one of said devices for traveling movement relative to the other, and drive means for rotating said record-supporting device and for effecting traveling movement of said one device: the combination of a remote operator's station including operator's equipment comprising a transducer and an on-off station switch for said machine; circuit means for connecting said transducer and station switch to said phonographic machine; means controlled by said station switch to render said machine operable from said operator's station when said station switch is in "on" position; a sound-type signaling device at said attendant's station, an intermediate end switch operable by said one device as the same passes a selected intermediate point in its path of travel spaced substantially from the end of its travel range, and means controlled by said station switch and said intermediate end switch to cause said signaling device to be energized when said station switch is returned by the operator to "off" position while said one device is beyond said intermediate point.

2,650,952

RECORDING AND REPRODUCING HEAD

Benjamin R. Bauer, Oak Park, and Lee Gunter, Jr., Chicago, Ill., assignors to Shure Brothers, Incorporated, Chicago, Ill., a corporation of Illinois

Application April 13, 1949, Serial No. 87,276

7 Claims. (Cl. 179—100.2)



7. In transducer means for use with an elongated recording medium, in combination, a nonmagnetic body member having a recess therein, a magnetizable core in said recess and a coil embracing said core, said core having a pair of parts adapted to be disposed on opposite sides of the line of travel of the recording medium, a pole piece extending inwardly from each said core part and forming a pair of cooperating pole pieces, the end portions of said pole pieces being in spaced apart overlapping relationship, said overlapping portions being oppositely directed lengthwise of said pole pieces and being offset laterally in the same direction from the main portions thereof, said overlapping portions of said pole pieces being of substantially lesser width than the main portions thereof, said body member having a flat bottomed groove therein registering with the laterally projecting side edges of said overlapping portions of said pole pieces to provide a path transversely over said overlapping portions for one side of a flat-surfaced recording medium, the width of the groove in said body member being substantially greater than the corresponding dimension of the surfaces of the pole pieces registering with said groove to enable several recordings to be made side-by-side on a single recording medium.

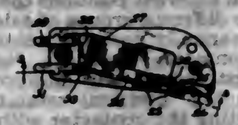
2,650,953

METHOD OF ASSEMBLING PHONOGRAPH TRANSLATING DEVICES

Lee Gunter, Jr., Mount Prospect, Ill., assignor to Shure Brothers, Incorporated, Chicago, Ill., a corporation of Illinois

Application May 3, 1951, Serial No. 224,410

6 Claims. (Cl. 179—100.41)



1. In a phonograph translating device including a pair of casing halves held together to form a casing; a pair of resilient members inside of said casing halves and having an opening therein; a pickup unit including, a transducing element held at one end in said opening and a phonograph needle chuck cemented to such transducing element in line therewith at its other end; and stop means on said casing halves for limiting lateral movements of such needle chuck and transducing element; the method of assembling said device comprising the steps of assembling one end of said transducing element into the opening in said resilient members and said resilient members into said casing halves to form a final subassembly, disposing said needle chuck with one end in functional relationship to be with the other end of said transducing element and while so disposed holding said needle chuck substantially midway between said stops and in stress-free relationship with said transducing element, and cementing said needle chuck and said transducing element together while said needle chuck is so disposed.

2,650,954

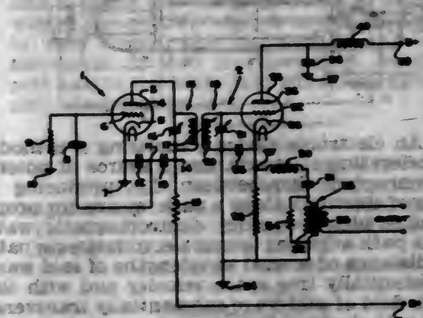
REACTIVELY ACTUATED ACOUSTO-ELECTRIC TRANSDUCER

Stanley M. Church, Los Angeles, Calif.

Application May 22, 1948, Serial No. 28,000

2 Claims. (Cl. 179—107)

1. An acousto-electric transducer comprising: a source of electric oscillations of a predetermined high frequency; a modulator including a resonant circuit having an inductor and a capacitor connected in parallel, said inductor being adjustably electromagnetically coupled to said source, said capacitor constituting a condenser microphone, the quiescent resonant frequency of said circuit being slightly different from the frequency of said source, said circuit being arranged to modulate said high frequency oscillations by low frequency oscillations in accordance with auditory input to said microphone; a virtually infinite input impedance demodulator electron tube having a cathode, a control grid and an anode, said resonant circuit being effectively connected between said control grid and ground;



a source of positive potential connected to said anode; a cathode resistor between said cathode and ground, said cathode resistor being of such value that the maximum amplitude of the high frequency oscillations fed to said tube falls on a virtually linear central portion of the I_p vs. E_c curve of said tube, whereby the tube will operate class A with respect to low frequency modulating oscillations; a radio frequency capacitor across said cathode resistor; and an output circuit connected across said cathode resistor and said radio frequency capacitor.

2,650,955

TRANSFORMER-COUPLED PULSE-TRAIN AMPLIFIER

William L. Martin, Los Angeles, Calif., and Ralph J. Slutz, Kensington, and Henry R. Senf, Bethesda, Md., assignors to the United States of America as represented by the Secretary of Commerce

Application January 9, 1951, Serial No. 205,164

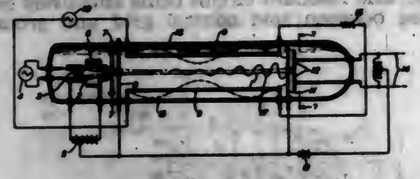
2 Claims. (Cl. 179—171)

(Granted under Title 35, U. S. Code (1952), sec. 266)



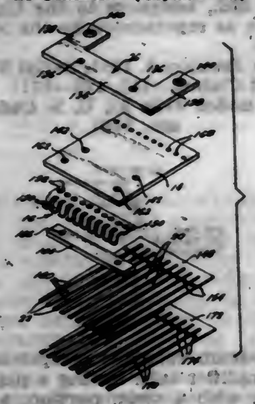
1. A pulse-train repeater comprising a grid-controlled amplifier tube having a plate characteristic curve with a steep portion, a knee and an essentially horizontal portion; a pulse transformer having its primary connected in the plate circuit of said tube; a load circuit connected to the secondary of said transformer; and a load in said load circuit having an impedance so large as to cause the complete cycle of normal operation to be effectively within the region of the steep portion of the plate characteristic curve.

2,650,956
AMPLIFIER UTILIZING DEFLECTION OF AN ELECTRON BEAM
Raymond A. Heising, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 24, 1946, Serial No. 718,135
23 Claims. (Cl. 179—171)



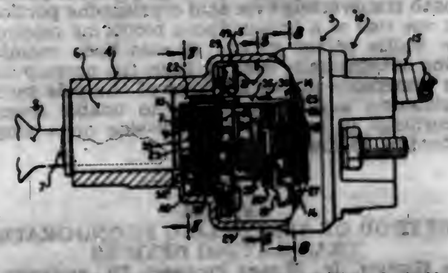
21. An electronic device comprising a cathode, an accelerating electrode, and a source of potential connected therebetween for producing a stream of electrons along a path, means for propagating a high frequency electromagnetic wave along a path adjacent to said electron stream path for a distance of several wavelengths of said wave at substantially free space velocity and with the electric field of said wave substantially transverse across said electron stream path, means for moving said stream of electrons along said stream path in the region of said electric field at a velocity substantially less than one half said velocity of the electromagnetic wave comprising a pair of electrodes spaced apart along said electron stream and oppositely disposed longitudinally with respect to said electric field region, and a source of potential connected between each of said pair of electrodes and said accelerating electrode for maintaining said pair of electrodes at such a positive potential with respect to said cathode as will impart said electron stream velocity to said electron stream.

2,650,957
FINGER TYPE CIRCUIT REGULATOR AND CONTACT ASSEMBLY THEREFOR
Arthur M. Cohen, New York, N. Y.
Application September 17, 1948, Serial No. 49,726
15 Claims. (Cl. 200—1)



1. A contact assembly for a circuit regulator comprising a mounting plate, a set of fixed contacts secured to said plate, a common conductor connecting said fixed contacts, a plurality of electrically separated resilient movable contacts, one for each fixed contact, each fastened at one end to said plate and resiliently bearable at its other end against a fixed contact, and a plurality of flexible conductive strips, each secured to said plate and to a movable contact at the same point and by the same means as said plate and movable contact are secured to one another, said conductive strips serving as leads making electrical connection with said movable contacts.

2,650,958
ELECTRIC SWITCH
Edward N. Jacobi, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application October 26, 1949, Serial No. 123,709
12 Claims. (Cl. 200—6)



2. In an electric switch: a plurality of stationary contacts having contact surfaces lying in a common plane; a movable contactor rotatable across said plane from a switch "off" position and adapted in different positions thereof to electrically bridge different groups of said stationary contacts; a manually operable actuator for rotating the contactor from its "off" position through a first switch "on" position and to a second switch "on" position; rotatable coupling means connecting the contactor with the actuator for rotation therewith; a preloaded torsion spring mounted on said coupling means to rotate bodily therewith between positions thereof corresponding to the "off" and first switch "on" positions of the contactor, and for resisting rotation of the coupling means in the direction to carry the contactor beyond its first switch "on" position, whereby the spring is operable upon release of the actuator to automatically move the contactor from its second toward its first switch "on" position; and detent means for arresting spring propelled motion of the contactor in its first switch "on" position.

2,650,959
ELECTRIC SWITCH
Kenneth C. Allison, Crystal Lake, Ill., assignor to Grigsby-Allison Company, Inc., Arlington Heights, Ill., a corporation of Delaware
Application June 4, 1952, Serial No. 291,749
8 Claims. (Cl. 200—15)



1. An electric switch comprising an insulating stator having an opening through which an operating shaft projects, an insulating rotor having an opening through which said shaft projects, a metal base to which said stator is fixed, said base presenting a marginal portion beyond

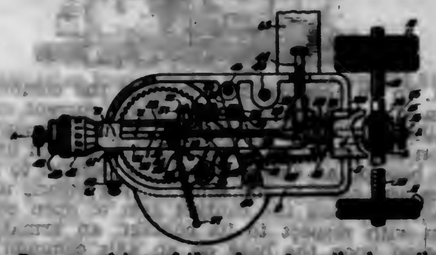
the peripheral limits of the stator, indexing means on said marginal portion of the base, and means through which the rotor is rotatively locked to the shaft including a spring member fixed to the shaft and having a radially extending finger cooperating with said indexing means, said spring member having integral members interlocked with notches formed in the rotor, and cooperating contacts on the rotor and stator.

2,650,960
ROTARY ELECTRIC SWITCH ASSEMBLY
Kenneth C. Allison, Crystal Lake, Ill., assignor to Grigsby-Allison Company, Inc., Arlington Heights, Ill., a corporation of Delaware
Application June 4, 1952, Serial No. 291,750
6 Claims. (Cl. 200—15)



1. A rotary electric switch comprising a stator of insulating material having a central opening, contacts carried by said stator and extending therefrom in spaced apart relation circumferentially of the stator, each of said stator contacts presenting a pair of resilient jaws opening toward but extending a distance short of said central opening in straddling relation to a common plane in spaced parallel relation to the surface of the stator from which said contacts extend, a rotor of insulating material contained in said opening for rotation therein and having a contact member fixed thereto, an integral blade extending from said contact member with which the jaws of a selected stator contact are engageable in a selected rotated position of the rotor, and means operative to restrict movement of the rotor relative to the stator within a selected range axially of the rotor including a member formed integrally with and extending from said rotor contact member in spaced relation to the plane of the blade for sliding engagement with the surface of the stator.

2,650,961
PICKUP DEVICE FOR USE WITH BALANCE TESTING MACHINES
Ira A. Weaver, Springfield, Ill., assignor, by mesne assignments, to Gisholt Machine Company, Madison, Wis., a corporation of Wisconsin
Application July 26, 1949, Serial No. 106,912
12 Claims. (Cl. 200—23)



1. In a machine of the class described, a vibration pick-up device comprising a frame adapted to be mounted upon a vibratory element of the machine, inertia-weight means carried by said frame and pivotal on an axis disposed substantially at right angles to the plane of the vibrations subject to pick up and with said means adjustable relative to said axis and the direction of said vibrations to effect a vibratory swing of said means about said axis in correlation with and in response to said vibrations, means disposed to bias said inertia-weight means to a normal position relative to said axis and frame and to resist the vibratory swing of said inertia-weight means, and electric switch means carried by said frame and operable by the vibratory movement of said inertia-weight means about said axis to translate said vibrations into recordable electric impulses.

2,650,962
ROLLER TYPE SWITCH
Francis S. Sinclaire, Brooklyn, N. Y.
Original application April 15, 1948, Serial No. 21,191. Divided and this application September 21, 1950, Serial No. 185,949
6 Claims. (Cl. 200—46)



1. A strip-actuated electric switch comprising a strip of wire of a first diameter having a conducting portion of a greater diameter, a rotatable cylindrical member having a peripheral channel formed therein, the width of said channel being at least equal to said first diameter and less than said second diameter and its depth at least equal to one-half said first diameter, and a pair of circular contacts positioned on the periphery of said cylindrical member but insulated therefrom and on opposite sides of said peripheral channel so as to form an extension of said channel, whereby when said strip is threaded around said cylindrical member, the portion of said first diameter bottoms in said channel without completing a circuit between said circular contacts, whereas said portion of greater diameter cannot enter said channel but lies in the extension thereof and completes a circuit between said circular contacts.

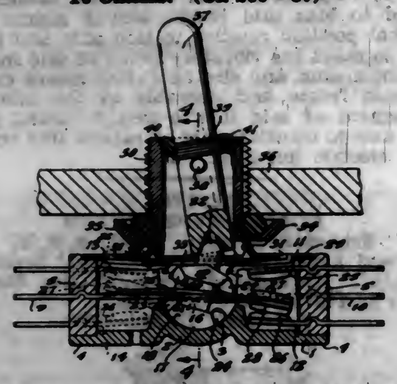
2,650,963
AUTOMOBILE SIGNAL DEVICE
John C. Gravens, South Euclid, Ohio, assignor of one-half to Joseph R. Stern, East Cleveland, Ohio
Application September 2, 1950, Serial No. 183,957
1 Claim. (Cl. 200—61.39)



A contact member for a control switch arrangement of a signal circuit of an automotive vehicle embodying an outwardly threaded tubular body of insulating material adapted to be threadedly, axially adjustably mounted on the control arm of the carburetor of the vehicle, and a metal rod non-shiftably extended through said tubular body having one extended end formed

to a contact head and the other extended end shaped to permit its electrical connection with the signal circuit to be controlled.

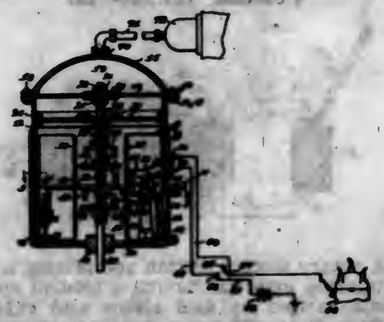
2,650,964
SNAP SWITCH
Adolph Rasdow, New York, N. Y.
Application January 28, 1953, Serial No. 333,614
10 Claims. (Cl. 200—67)



1. In an electric switch, in combination, an insulating longitudinal casing open at its top and at its ends, said casing having a curved bottom disposed in its central portion and extending crosswise to the longitudinal axis of the said casing, a switch actuating bridge member having a stem extension floating in the said casing and supported by the curved bottom of the said casing for oscillatory rotary movement, a top cover having a central opening and closing the top of the said casing, the said stem extension of the said bridge member extending through the said opening of the top cover, an end block disposed at each side of the said casing to close the side ends thereof, a first spring blade carried by and extending through one of the said end blocks and disposed in the casing from one end thereof to adjacent its other end, two additional spring blades carried by and extending spaced apart from each other one above the other through the other of the said end blocks into the said casing and terminating adjacent the said other end block, the inner end of the said first spring blade being disposed between the inner ends of the said spring blades constituting electrical contacts, the said switch actuating bridge member having a slot extending in longitudinal direction of the said casing and the said first spring blade passing loosely through the said slot, the outer ends of the said spring blades constituting terminal lugs, a bushing secured to and extending upwardly from the said top cover, an operating lever pivotally supported by the said bushing and adapted to actuate the said bridge member and to oscillate the latter into two respective contact positions, means for operatively sealing the said lever in the said bushing.

2,650,965
VACUUM CONTROLLED AUXILIARY IGNITION SWITCH FOR INTERNAL-COMBUSTION ENGINES
Edward B. Morrison, Franklin, La., assignor of one-half to Robert C. Morrison, El Dorado, Ark.
Application May 25, 1951, Serial No. 228,275
10 Claims. (Cl. 200—83)

1. A vacuum operated ignition circuit interrupter comprising a vacuum chamber, a diaphragm defining one wall of said chamber, a housing supporting said chamber, a rod secured to and projecting from the diaphragm, spring means urging the diaphragm and rod outwardly of the chamber, a lever pivotally mounted by the housing for swinging movement longitudinally of said rod and having a trigger portion at one end thereof, a platform pivotally mounted on the housing for swinging movement in a plane parallel to the plane of swinging movement of the lever and having an end engaging under the trigger portion and against an end of the lever whereby the platform is held inclined in one direction, a platform spring urging the platform to swing to an inclined position in the opposite direction, a lever spring connected to and urging the lever to swing in the opposite direction of swinging movement of said platform under



the biasing action of the platform spring, a mercury ignition circuit breaking switch supported on the platform and disposed with its axis parallel to the plane of the platform, and abutment members secured to the rod above and below the lever, said lever having portions disposed on opposite sides of its pivot to be engaged by said abutment members when the rod is displaced toward or away from the vacuum chamber by movement of the diaphragm in response to a fluctuation of the negative pressure in the vacuum chamber for swinging the trigger portion away from the vacuum chamber and out of engagement with said platform end to release the platform to be swung to an inclined position in the opposite direction by the platform spring to rock the mercury switch to a circuit interrupting position.

2,650,966
ELECTRICAL CONTACTOR
Paul V. Yingst, Norwood, Ohio, assignor to The Feat-Glover Electric Company, Cincinnati, Ohio, a corporation
Application March 7, 1949, Serial No. 79,997
8 Claims. (Cl. 200—96)



1. In an accelerating contactor the combination of a supporting base, a main current controlling switch comprising a contact mounted upon the base and a contact arm pivoted upon the base on an axis substantially parallel to the base and close to the same, spring means normally throwing the contact arm to open position with respect to its contact, an armature pivoted upon the base on an axis common to the axis of the switch arm, said armature being

connected to the switch arm for movement therewith, an electromagnetic coil mounted upon the base on an axis substantially parallel to and close to the base, and a holding coil for said armature mounted upon the base on an axis close to and non-perpendicular to the base and in armature attracting opposition with respect to the coil first mentioned.

2,650,967
THERMORELAY WITH INDIRECTLY HEATED BIMETALLIC STRIP
Albert Viboud, Grenoble, France, assignor to Etablissements Merlin & Gerin, Societe Anonyme, Grenoble, France, a corporation of France
Application March 14, 1952, Serial No. 276,726
In France April 4, 1951
4 Claims. (Cl. 200—122)



1. Thermorelay with bimetallic strip and switching means coupled with said strip for operating the relay dependent upon the thermic condition of said strip, said relay having terminals adapted to be connected with the electrical circuit in which the relay is operative; a heating element electrically connected to and between said terminals so as to be passed by the current of said circuit and to be heated thereby; a casing disposed at said thermorelay; said bimetallic strip and said heating element being housed in the space of said casing and in vicinity to each other so as for said heating element to transmit heat to said strip for the indirect heating of the same; supplemental regulating mechanism being coupled with said strip so as to be actuated thereby and, dependent upon the deflection of the strip, to modify the thermic condition of the space thus the time-heat characteristics of the relay.

2,650,968
MULTIPLEX FUSE PLUG
Walter H. Wilson, Mansfield, Ohio
Application February 26, 1952, Serial No. 339,619
3 Claims. (Cl. 200—125)

1. A multiplex fuse plug comprising a body of insulating material having an open cupped end having a floor from which a counterbore extends into the body providing a hollow thimble shaped shell, a contact head secured through the bottom of said shell, a conductor extending from said contact head and terminating within the inner side wall of said cupped end adjacent said floor providing a first contact brush, a contact ferrule on said shell having a conductor portion extending therefrom through said floor to within the inner side wall of said cupped end providing a second contact brush angularly spaced from said first contact brush, an open cup-shaped plug cap of insulating material nesting within said cupped end of said body adjacent said floor, means for removably and rotatably mounting said cap in nesting position in said plug cupped end, said plug cap having a plurality of angularly spaced radially extending webs dividing said open cup-shaped cap into separate chambers open on the side toward said hollow thimble shaped shell, a continuous fuse element secured through the cup wall of each separate chamber externally of each radial web and internally of at least one less than



all of said separate chambers, said first and second contact brushes being angularly spaced the same spacing as said radial webs, manual rotating handle means on said plug cap exterior thereof, multiplex fuse indicating indicia and intermediate "off" indicating indicia on said cap and a cooperating indicia on said plug body, whereby said plug cap may be rotated to position any two adjacent external portions of said fuse element in contact with said first and second brush contacts or to an "off" position between said contacts, the internal fuse element portion within the chamber between said contacted external portions blowing when overloaded into said hollow body shell without blowing the fuse portions in the other chambers.

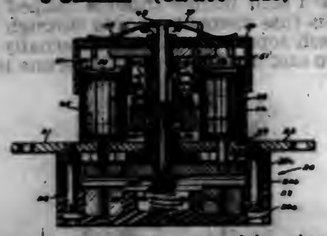
2,650,969
ENGINE LOW OIL INDICATOR
Robert N. Zimmerman, Tucson, Ariz.
Application February 24, 1950, Serial No. 145,925
2 Claims. (Cl. 200—139)



1. An engine low oil indicator for the oil circulation system of an engine comprising a tube connected in the oil circulating system of the engine, a stud mounted adjacent said tube, means on said stud for adjusting said stud, a thermostatic bimetallic element connected at one end to said stud and having a contact on the opposite end thereof positioned to be influenced by heat of the tube, a second contact adapted to be engaged by the end of the contact at the opposite end of the

thermostatic element, and means for adjusting the position of the said second contact in relation to the contact on the thermostatic element.

2,650,970
ARCLESS CONTROLLING SWITCH
Alphonse P. Gauvreau, Cleveland Heights, Ohio, assignor to The Clark Controller Company, Cleveland, Ohio, a corporation of Ohio
Application February 18, 1950, Serial No. 144,951
3 Claims. (Cl. 200—146)

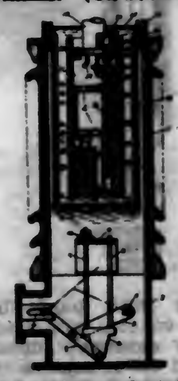


1. Switch mechanism comprising two electric circuit terminals separated by a gap, and means for closing said gap by way of two parallel branches of a switch circuit, a first one of said branches including a relatively low resistance bridge member adapted, by contacting both said terminals, to close the gap, and to open the gap by breaking said contact, and the second branch including two piles of high resistance plates, the resistance of said piles being reducible by application of pressure thereon, one end of each pile being engageable with a respective terminal, and a relatively low resistance electrically conductive bar adapted to engage and span the other ends of said piles, means for movably supporting said bridge member and said bar to move them toward and from said terminals during respective switch closing and opening movements, means effecting closure of said second branch before said first branch during switch closing, and conversely effecting opening of said first branch before said second branch during switch opening, means for applying pressure on said piles through said bar during switch closing motion, and for relaxing said pressure during switch opening motion, and additional means for maintaining constraining force on said piles after said bar is moved out of compressive contact with said piles.

2,650,971
ELECTRICAL SWITCH
Albert J. Dawe, Milwaukee, Wis., assignor to Allen-Bradley Company, Milwaukee, Wis., a corporation of Wisconsin
Application June 8, 1950, Serial No. 166,939
4 Claims. (Cl. 200—147)

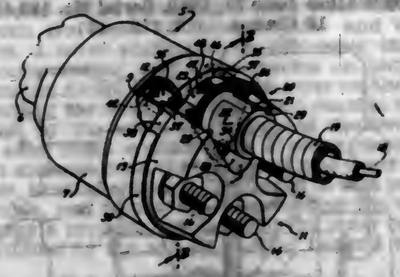
2. In an electrical switch a first non-magnetic terminal having a shank and an enlarged head, a first non-magnetic contact mounted on said terminal head to expose a forward contact face, a hollow cylindrical steel ring having a forward rim and an inwardly turned rear rim closely surrounding said terminal head, an insulating member surrounding said terminal shank and engaging the rear of said terminal head disposed between said terminal head and the inwardly turned rim of said ring to interpose insulation between said first terminal and said ring, fastening means engaging said shank and ring to hold the same rigidly with respect to one another, the forward rim of said ring being substantially flush with but to the rear of said forward contact face, a second terminal, a second contact mounted on said second terminal, and actuating means engaging said contacts to move the same into and out of engagement with one another.

2,650,972
BUSHING TYPE CIRCUIT INTERRUPTER
Masatoshi Kuwayama, Taga, Japan, assignor to Hitachi Limited, Tokyo, Japan
Application March 14, 1951, Serial No. 215,504
In Japan April 28, 1950
3 Claims. (Cl. 200—150)



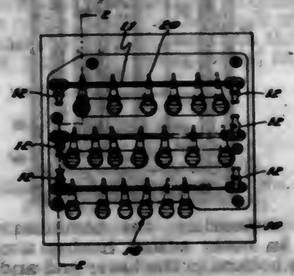
1. In a bushing type electric circuit interrupter, in combination an insulator bushing, an arc extinguishing cylinder suspended in said insulator bushing, said arc extinguishing cylinder being divided into at least three successive superimposed compartments communicating through small holes, a pressure generating stationary contact fixed on the top wall of the upper compartment thereof, a second stationary contact fixed to the bottom wall of said upper compartment, a pressure generating movable contact member passing through said second contact cooperable with said pressure generating stationary contact, said movable contact being normally biased by a spring into a downward position out of engagement with said pressure generating stationary contact, an arc extinguishing stationary contact fixed to the top wall of the lower compartment on a vertical line spaced from the vertical axis of the contact member, a second movable contact member cooperable with said arc extinguishing stationary contact, an insulated push rod for actuating said pressure generating movable contact member, a cross head to which the lower ends of said second contact member and said push rod are fixed uprightly and with a predetermined distance between them, a guide member fixed to the bottom portion of said bushing and having a fixed guide contact and a guide for said second contact member and the push rod respectively, and means for operating the cross head in vertical up and down directions.

2,650,973
ELECTRICAL SWITCH
Edward N. Jacobi, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application November 7, 1949, Serial No. 125,857
12 Claims. (Cl. 200—168)



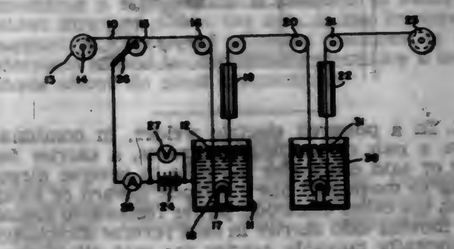
5. A terminal head assembly for an electric switch, comprising: a block of insulative material having a substantially flat front face on which the stationary switch contacts are located, said block having a relatively shallow rearwardly extending recess in its periphery and having a deeper relatively narrow slit extending into its periphery from one side of said recess; a plate overlying a rearwardly facing surface on said block adjacent to the periphery thereof, said plate having a hole therein; means for attaching said plate to the terminal head including an arm extending forwardly from the outer edge of the plate and received substantially flatwise in said shallow recess to preclude edgewise motion of the plate laterally of the block, a finger on the side of the forward end of said arm extending from the underside of the arm into said slit in the periphery of the block to preclude flatwise separation of the plate from said surface on the block, and a connection between the plate and the block remote from the periphery of the block for precluding edgewise motion of the plate relative to the block in a direction to carry said arm out of its recess; a sleeve fixed on said plate in register with the hole therein and extending rearwardly from the plate; and an armored cable having its outer shell secured inside said sleeve and having its conductor passing through the hole in the plate for connection to one of the contacts on the terminal head.

2,650,974
POTENTIOMETER
Norman S. Hinze, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application October 4, 1951, Serial No. 249,761
2 Claims. (Cl. 201—61)



1. A multiple tap potentiometer comprising, an insulated base plate, a plurality of conductive wires mounted on said base plate, a plurality of jumpers connecting the ends of the conductive wires to other conductive wires, a plurality of rotary adjustable contacts mounted to said base member adjacent said resistive wires and formed with rotary arms for engaging said resistive wires, and a protective plate mounted over said resistive wires and formed with openings therein so that the rotary contacts may be adjusted.

2,650,975
ELECTRICALLY INSULATED CONDUCTOR AND PRODUCTION THEREOF
Stanley O. Durst, North Adams, Mass., assignor to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts
Continuation of application Serial No. 594,429, May 18, 1945, which is a continuation of application Serial No. 472,495, January 15, 1943. This application March 15, 1950, Serial No. 149,867
19 Claims. (Cl. 201—64)



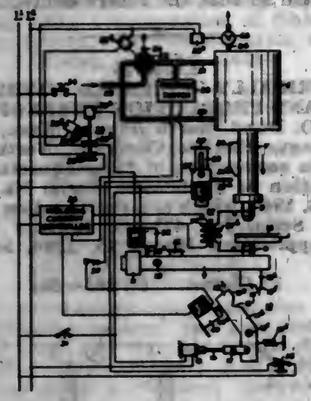
19. A flexible metallic electrical conductor having a substantially uniform insulating coating in which said coating comprises a mixture of electrophoretically coated particles of refractory insulating material and a colloidal hydrated gel electrolytically formed from an aqueous solution of an inorganic electrolyte selected from the class consisting of silicates, aluminates, tungstates, zincates, zirconates and titanates.

2,650,976
ELECTRICALLY CONDUCTING LAMINATED GLASS
Romey A. Gaiser and James H. Belocy, Toledo, Ohio, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application March 21, 1951, Serial No. 216,768
14 Claims. (Cl. 201—73)



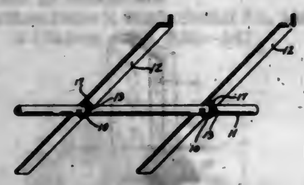
1. In a laminated safety glass unit comprising at least one sheet of glass and a layer of non-brittle thermoplastic material integrally bonded thereto, a strip of dielectric tape between the glass sheet and the plastic layer adjacent a margin of said glass sheet and separating the glass from the plastic along said tape layer.

2,650,977
SAFETY CONTROL FOR WELDERS
Jerome B. Welch, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application August 18, 1952, Serial No. 304,982
12 Claims. (Cl. 219—4)



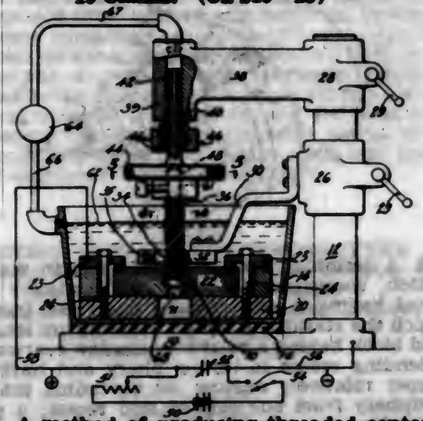
1. In a powered electric welder, in combination, a pair of welding electrodes, a carrier for one of said electrodes movable in reverse directions to move said one electrode toward or away from the other electrode, power responsive means for moving said carrier in said reverse directions, a pivotally movable carrier for said other electrode normally biased to one extreme position in which the latter electrode is in line with said one electrode and being movable out of said one extreme position by application of force in addition to that exerted by the work, power operated locking means energizable to lock the last mentioned carrier in said one extreme position when in that position, and control means for said locking means operable in response to movement of the first mentioned carrier to within a predetermined distance of the work to effect locking of said last mentioned carrier in its said one extreme position if then in that position.

2,650,978
MEANS FOR SUPPORTING METAL CLIPS
John M. Donalson, Birmingham, Ala.
Application November 8, 1950, Serial No. 194,623
4 Claims. (Cl. 219—10)



1. The method of supporting an electrically conductive member from an electrically conductive surface with an electrically conductive clip of a shape to partially encircle said member and be in direct contact with said surface comprising the steps of insulating said clip from said member, and passing a welding current through the clip and said surface thereby welding the clip to said surface with said member in situ.

2,650,978
METHOD AND APPARATUS FOR ELECTRICALLY DISINTEGRATING METALLIC MATERIAL
Edmund E. Teubner, Philadelphia, Pa., assignor to Method-X Company, Lansdale, Pa., a corporation of Pennsylvania
Application June 21, 1950, Serial No. 169,438
19 Claims. (Cl. 219—15)



19. A method of producing threaded contours by electrical dislodgement of particles from a conductive workpiece and which comprises providing means for holding the workpiece, providing a hollow electrode tool having a thread-like internal contour, interposing a dielectric medium between the tool and the workpiece, passing a series of time-spaced electrical spark discharges between the tool and the workpiece through the dielectric medium, and simultaneously shaping and threading a portion of the workpiece by telescoping said electrode over such portion through the application of combined relative revolution and translation between said hollow electrode tool and the workpiece.

2,650,980
AGITATED MILK PASTEURIZER
Mike Popow, Fishkill, N. Y.
Application November 25, 1949, Serial No. 129,214
3 Claims. (Cl. 219—44)



1. In a pasteurizer, the combination which comprises an outer casing having a cylindrical wall with a bottom in the lower end and in which the upper end is open, an inner container also having a cylindrical wall with a bottom in the lower end and in which the upper end is open, the wall and bottom of the inner container being spaced from the wall and bottom of the outer casing, spaced heating elements positioned between the walls and bottoms of the outer casing and inner container, the upper end of said inner container being connected to the upper end of said outer casing providing a closure for the area between the walls of the container and outer casing, a cover positioned on the upper end of the outer casing, said cover having an annular depending flange journaling the cover on the upper end of the outer casing, spaced parallel tubes carried by the cover and extended downwardly into said inner container to a plane spaced a short distance from the bottom of said inner container, heating elements positioned in said parallel tubes, and means for reciprocating the cover whereby a product positioned in the inner casing is agitated by the spaced parallel heating tubes.

2,650,981
LAMP HARP EXTENSION
Paul Chile, Chicago, Ill.
Application January 18, 1950, Serial No. 139,169
3 Claims. (Cl. 240—148)



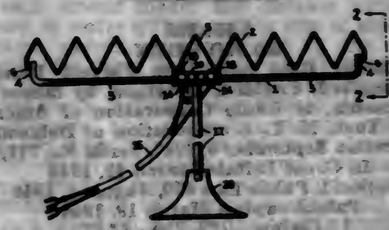
1. An extension for use with a lamp harp having a shade mounting stud extending therefrom comprising a cylindrical body member, the bottom end wall thereof being provided with an axially aligned recess therein, the bottom wall of said recess having an axially aligned, internally threaded bore therein of a size to receive a lamp harp stud, the central portion of the opposite end of said body member being offset outwardly and having an axial bore therein, a stud, and an annular flange formed on said stud intermediate its ends, the portion of said stud at one side of said flange being provided with external threads, said threaded portion being substantially the same diameter and having the same number of threads per inch as said threaded bore, the opposite end portion of said stud being positioned in the bore in said opposite end and engaging the side walls thereof in a press fit whereby the stud and body member are rigidly secured together, with the flange on said stud being smaller in diameter than that of the recess in said bottom wall of the body member, and less in thickness than the depth of such recess, said flange being seated on the body member.

2,650,982
HARP SWIVEL
Paul Chile, Chicago, Ill.
Application June 17, 1950, Serial No. 168,310
4 Claims. (Cl. 240—148)

1. The combination with a lamp harp having a transverse support in the plane of the lamp harp for mounting a lamp shade, of a harp swivel comprising U-shaped means complementally formed to the transverse support for frictional engagement therewith and adjustably mounted upon the transverse support, stud means for detachably mounting a lamp shade, including a downwardly extending projection engaging the sides of the U-shaped means, adjustable angularly about a pivot connection to the U-shaped means, cup-shaped means for limiting the angular movement of the stud means for detachably mounting a lamp shade in either direction in a plane perpendicular to the axis of the pivot connection, and said cup-shaped means for limiting the angular movement provided with opposed slots complementally formed to the transverse support, whereby the stud means for detachably mounting a lamp shade is adapted to swing in either direction about the axis of the transverse support in any of the adjusted positions of the aforesaid means for detachably mounting a lamp shade about its pivot connection.



2,650,983
ANTENNA
Edward J. Kiebar and Raymond W. Crombey, Cleveland, Ohio, assignors to The Radiart Corporation, Cleveland, Ohio, a corporation of Ohio
Application May 25, 1950, Serial No. 164,102
5 Claims. (Cl. 250—33)

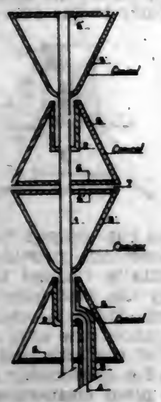


4. Antenna structure comprising an insulating member, a pair of electrically conductive elements supported in axially spaced relationship by said member to form a dipole, a helical coil of electro-conductive material defining a cylindrical cage, said cage being supported at the ends thereof by the ends of said dipole, said cage being completely exterior therefrom and electrically insulated therefrom, means provided on said member and engaging a portion of said cage intermediate the ends thereof to maintain said cage in parallel uniformly spaced relationship to said dipole, and means for connecting a transmission line to said dipole.

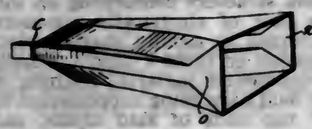
2,650,984
WIRELESS AERIAL
Paul Mandel, Paris, France, assignor to La Radio-Industrie S. A., Paris, France, a body corporate of France
Application December 28, 1950, Serial No. 203,150
In France January 18, 1950
2 Claims. (Cl. 250—33)

1. A wireless aerial comprising in galvanic interconnection a rigid conducting mast to which is connected one conductor of a feeder pair, a rigid quarter-wave conducting coaxial sleeve sur-

rounding said mast and being connected to the other conductor of said pair, said sleeve being shorted at one end to said mast, a first rigid half-wave radiator structure surrounding a linear portion of said mast and being affixed to the edge of the free end of said sleeve, a second rigid half-wave radiator structure surrounding an adjacent linear portion of said mast and affixed to said mast along a circular line near the edge of the free end of said sleeve, both of said radiator structures being of same overall revolution shape around the axis of said mast and diverging from said mast in opposite directions so that their respective remote ends each are a quarter wave-length distance radially from said mast, and rigid planar conducting supports joining said remote ends to said mast.

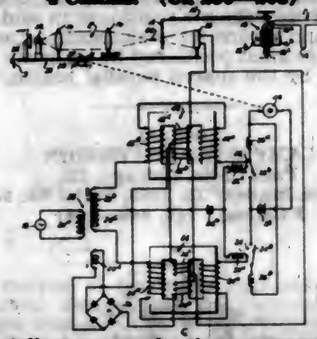


2,650,965
RADIO HORN
Noël Meyer Rust and John Forrest Ramsay, Chelmsford, England, assignors, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application September 9, 1947, Serial No. 772,960
In Great Britain March 19, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires March 19, 1966
11 Claims. (Cl. 250—33.63)
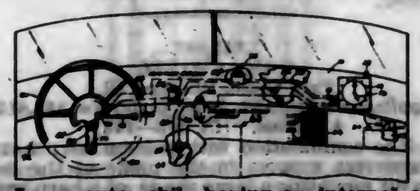


3. A radio antenna system comprising a horn antenna structure with a central axis and including a conductive surface arranged to define the wave guide passage of the horn antenna with the radio waves polarized with their electric vectors normal to said axis and parallel to a predetermined straight line intersecting and normal to said axis, said passage having an apex adapted to be coupled to wave transmission means at one throat end of said passage and an aperture open to free space at the other mouth end thereof, said conductive surface having opposed surface portions one each on a different side of said axis, said surface portions being spaced apart in the dimension normal to said axis and normal to said vectors by a spacing decreasing with increasing distance in the directions parallel to said predetermined line and away from said axis, the intersections of said surface portions with a plane normal to said axis defining line elements which line elements approach parallelism with said predetermined line at the extremities of said line elements remote from said axis in the directions of said predetermined line, thereby to differentially modify the velocity of propagation along the several paths between said apex and said aperture.

2,650,966
VARIABLE SENSITIVITY CONTROL DEVICE AND CIRCUIT FOR USE THEREIN
Paul T. Senna, Chicago, Ill., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Application June 1, 1950, Serial No. 165,473
4 Claims. (Cl. 250—203)



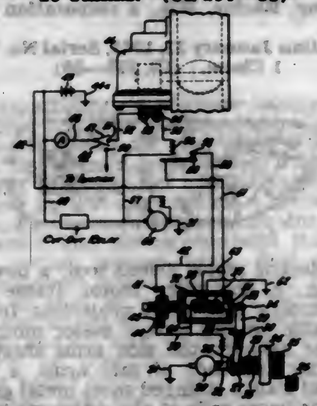
3. A follow-up mechanism responsive to the movements of an opaque vane along a predetermined path comprising a movable carriage, a light source and light sensitive device on the carriage, means on the carriage directing light from the source to a focal point substantially in the path of movement of the vane and operable to direct light from the source to the device, a pair of magnetic amplifiers each having a bias winding, a control winding and a controlled winding, a pair of synchronized sources of alternating E. M. F., means having a pair of energizing circuits and operative when one circuit is energized to move the carriage in one direction and when the other circuit is energized to move the carriage in the opposite direction, means defining a pair of circuits each including one source, one of the controlled windings and one energizing circuit, means defining a circuit through the bias windings, and means defining a circuit from the light sensitive device through the control windings, the last circuit being poled to cause one control winding to oppose the M. M. F. of its associated bias winding and the other control winding to reinforce the M. M. F. of its associated bias winding.

2,650,967
AUTOMOBILE TIME-CLOCK STARTING MECHANISM
Mary R. Doyle, Omaha, Nebr.
Application June 21, 1950, Serial No. 169,462
2 Claims. (Cl. 290—2)



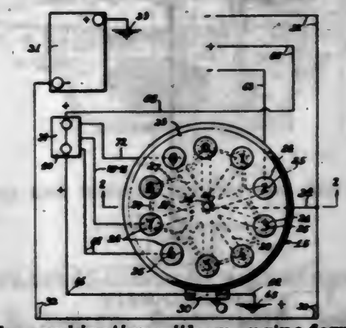
1. In an automobile having an internal combustion engine, a hot water heater in communication with said engine, an ignition switch, a starter switch, a gear shift lever, and an exhaust manifold: two time-clock switches; a time-clock operably attached to said switches, said time-clock being adjustable for closing said switches at any one of a plurality of preselected times; a lever switch operatable by said lever for closing said lever switch only at times when said lever is in a neutral position; a thermostatic switch disposed adjacent the exhaust manifold, said thermostatic switch being closed except at times when said manifold reaches a predetermined temperature; an air temperature responsive thermostatic switch disposed in the riding compartment of said automobile; a wire connecting a terminal of one of said clock switches to a terminal of said ignition switch; a second wire connecting the other terminal of said clock switch to a terminal of said thermostat; a wire connecting the other terminal of said ignition switch to the other terminal of said lever switch; a wire interconnecting the other terminal of said thermostat and the other terminal of said lever switch; a wire connecting one terminal of the other clock switch to one terminal of said starter switch; a wire connecting the other terminal of said other clock switch to a terminal of said thermostatic switch; and a wire connecting the other terminal of said starter switch to the other terminal of said thermostatic switch.

2,650,968
THROTTLE CONTROLLED STARTER SWITCH
Lawrence C. Dermond, Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 22, 1952, Serial No. 267,851
16 Claims. (Cl. 290—38)



1. In a starting apparatus for internal combustion engines having a starting motor, a current source and a circuit for connecting said starting motor with the current source; a control switch for controlling said circuit having a switch operating member movable to different positions to open and close said switch, manual means for actuating said member, a resilient operating connection between said manual means and said member, a latch means normally preventing movement of said member by its actuating means, means operable by said manual means for releasing said latch means after a predetermined movement of said manual means, to permit movement of said switch operating member by said resilient operating connection to close the switch, and means whereby said manual means positively moves said operating member to position to open said switch.

2,650,969
PUSH BUTTON AUTOMOBILE ENGINE IGNITION AND STARTER SYSTEM
Theodore H. Heath, Philadelphia, Pa., assignor of forty-nine per cent to Joseph Pentony, Philadelphia, Pa.
Application May 1, 1952, Serial No. 285,566
5 Claims. (Cl. 307—10)

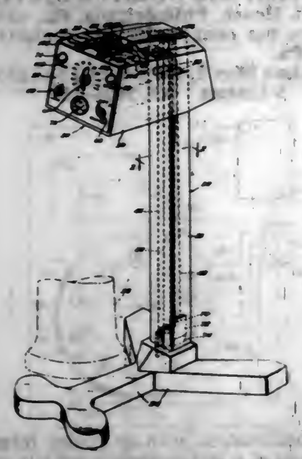


4. The combination with an engine forming the motive power of a self propelled vehicle and having an electric starter operatively connected therewith, of a source of electricity having one pole connected by a conductor with one side of the ignition system of the engine, a selector unit comprising primary and secondary circuit makers and breakers each including a tiltably mounted hollow body having two pairs of separated terminals and a quantity of mercury therein for alternately bridging each pair of terminals as the body is oscillated and further provided with opposed armatures, a pair of electro-magnets for circuit maker and breaker, one pair of terminals of each circuit maker and breaker being connected in series with the other side of the engine ignition system, and one side of the electric starter, the other pair of terminals in each circuit maker and breaker being electrically connected to an individual one of each pair of electro-magnets, and controlling means connected with the other pole of the source of electricity to preselectively control the magnet circuits which pass through the circuit makers and breakers in sequence to tilt said circuit makers and breakers in a direction to close the engine ignition circuit and subsequently controlling the electric starter circuit.

2,650,990
CONTROL OF ELECTRICAL SUPPLY FOR DENTAL APPARATUS
Ben H. Woodruff, Chicago, Ill.
Application May 18, 1949, Serial No. 93,904
5 Claims. (Cl. 307—41)

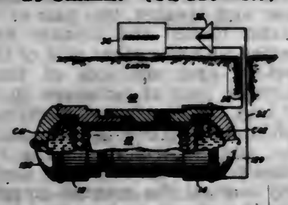
1. Dental apparatus adapted to be used with instruments of various kinds with various electrical loads and for applying a variable voltage to any of the various loads, comprising a transformer with variable turns ratio and having a control shaft rotatably adjustable to various positions for providing smoothly graduated output voltages, coupling means between said transformer and the load including a selector switch rotatably movable into various positions for coupling said transformer selectively to the respective loads, and interlock means enabling said switch to be moved only when said transformer control shaft is in a predetermined position said interlock means comprising a cam plate adapted to rotate with said control shaft, said cam plate having an indentation, and a lever element interconnected with the selector switch to move

into said indentation when said selector switch is rotated, said cam plate being angularly related to the rotary position of said transformer control



shaft to prevent movement of said lever element unless said control shaft is in a predetermined position.

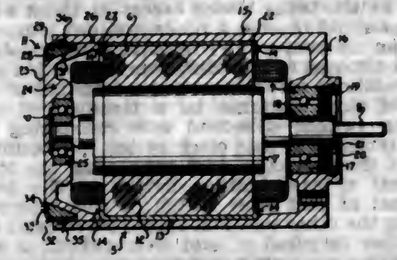
2,650,991
ACCELEROMETER
Raymond W. Ketchledge, Jamaica, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 14, 1947, Serial No. 785,923
10 Claims. (Cl. 310—8.7)



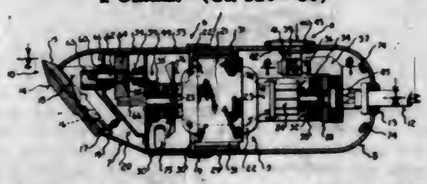
1. An accelerometer comprising a rigid housing, a pressure-responsive element, means for supporting the element within the housing including a rigid disc affixed to the element, a flexible diaphragm peripherally secured internally to the housing and centrally abutting the disc, a rigid closure for the housing spaced from the diaphragm to provide a cavity between the closure and the diaphragm, a liquid mass filling the cavity and exerting hydrostatic pressure over the surface of the diaphragm and means for measuring the response of the element to change in said pressure.

2,650,992
END BELL ASSEMBLY FOR DYNAMO-ELECTRIC MACHINES
Fritz V. Forss and Gene M. Neff, Racine, Wis., assignors to John Oster Manufacturing Company, Racine, Wis., a corporation of Wisconsin
Application January 10, 1952, Serial No. 265,756
5 Claims. (Cl. 310—42)

1. In an electrical machine having a stator and a rotor journaled in bearings: a casing surrounding the stator and having a tubular end portion extending beyond one end of the stator; a bearing support having a radially outer portion comprising shoulders engaged with parts in said casing to restrain the bearing support against radial and axially inward displacement, and an axially outer hub-like bearing seat portion having an axially outwardly tapering frusto-conical surface; a split locking ring in said end portion of the casing having an annular flange extending radially inwardly; cooperating abutments on said locking ring and in the casing to preclude axial outward displacement of said locking ring; and a radially expansible split clamping ring having a frusto-conical inner surface substantially corresponding to said frusto-conical surface on the bearing support and radially expanded into camming engagement with said hub-like bearing seat surface, said clamping ring having an axially outer surface engaging said flange on the locking ring so that the contractive force of the clamping ring causes it to react against the locking ring and against said frusto-conical surface on the bearing support to thereby wedge the bearing support axially inwardly.



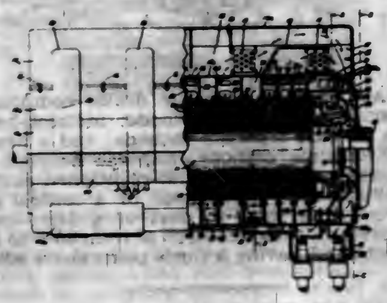
2,650,993
ELECTRIC HAIR CLIPPER
Ellis M. Brown and Ernest Harry Forss, Racine, Wis., assignors to John Oster Manufacturing Company, Racine, Wis., a corporation of Wisconsin
Application January 31, 1949, Serial No. 73,332
1 Claim. (Cl. 310—50)



In an electric motor driven tool: a power unit comprising, a one piece motor frame having spaced opposite side arms projecting from and integral with an end wall, a stator mounted on said frame between the side arms thereof and intermediate the ends of said arms, a bearing on said end wall, a stamped sheet metal gear case fixed to the outer ends of the side arms with one wall of the gear case forming a second end wall for the motor frame, a bearing on said wall of the gear case coaxial with the stator and the bearing on the first designated end wall of the motor frame, an armature positioned in the stator and having its shaft journaled in the bearings with one end of the shaft projecting into the gear case, a cam shaft journaled in the gear case and having one end thereof projecting outside the gear case, gears mounted within the gear case drivingly connecting the armature shaft with the cam shaft, and an eccentric fixed to the projecting end portion of the cam shaft to have a driving connection with the tool to be driven; and a combined housing and mounting for the tool to be driven comprising, complementary deep cupped sections telescoped over the opposite end portions of the power unit with

their adjacent ends contiguous, means for readily removably and individually securing each of said sections to the power unit so that either section may be removed from the power unit without disturbing the other section, and means on the housing section which covers the end of the power unit at which the gear case is located for mounting the tool to be driven with a part of the tool disposed inside the section for engagement by the eccentric of the power unit.

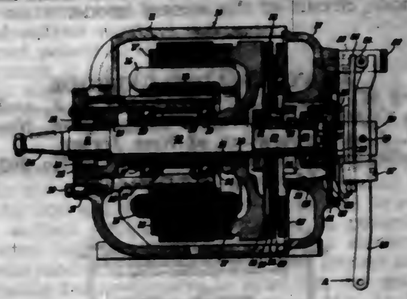
2,650,994
GENERATOR WITH REMOVABLE TOP COOLING DOME
John J. Bahn, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 2, 1952, Serial No. 291,257
4 Claims. (Cl. 310—57)



1. A dynamoelectric machine having co-operating stator and rotor members with a gap therebetween, fan means for circulating a ventilating medium to cool said members, an outer housing supporting said members and comprising a main cylindrical portion surrounding said stator member and having openings through the top portion thereof and having openings through the bottom portion thereof, baffle, duct and additional enclosure means for directing ventilating medium so that all heated ventilating medium will be discharged out of said openings through said top portion and all cool ventilating medium will be admitted to the dynamoelectric machine partly through said gap between rotor and stator and the remainder through said openings through said bottom portion of said cylindrical housing portion, and a removable top dome portion having transversely arranged coolers adapted to receive ventilating medium from said openings in said cylindrical housing top portion.

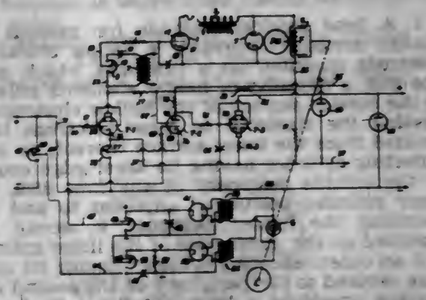
2,650,995
ENCLOSED CLUTCH-BRAKE MOTOR
Lorenz A. Wendel, Somerville, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application January 28, 1952, Serial No. 268,597
6 Claims. (Cl. 310—76)

1. An electric transmitter having a frame, a driven shaft having one end journaled in said frame for rotary and axial movement, a bearing cup slidably carried by said frame, a bearing fastened in said cup and supporting the other end of said driven shaft, means for moving said cup axially, and a flexible diaphragm surrounding



said cup and fastened to said cup and to said frame.

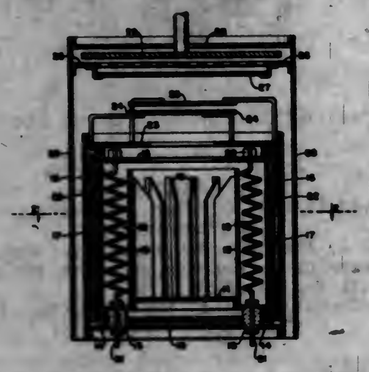
2,650,996
REGULATING CONTROL AND REGENERATIVE CIRCUIT
Ralph L. Jaeschke, Kenosha, Wis., assignor to Dynamatic Corporation, Kenosha, Wis., a corporation of Delaware
Application August 24, 1950, Serial No. 181,307
12 Claims. (Cl. 310—95)



8. In a regulating control of the type wherein the energization of controlled apparatus is varied in accordance with variations of a condition produced by the apparatus; a control circuit comprising a first triode connected to vary the energization of the controlled apparatus, said triode having a control grid responsive to a D. C. control signal for varying the impedance of the variable-impedance means with variations of the control signal, a voltage source producing a voltage responsive to the regulated condition connected to the control grid through a grid circuit providing relatively fast response at the first triode to variations of said voltage source, and a relatively slow-response D. C. regenerative circuit comprising an amplifier stage and a cathode follower stage, the amplifier stage comprising a first resistor and a second triode having an anode, a cathode and a control grid, an anode-cathode circuit for the second triode including said first resistor, said first resistor being connected in the grid circuit of the first triode, connections to the control grid of said second triode from the voltage source forming a grid circuit for the second triode, and the cathode follower stage comprising a second resistor and a third triode having an anode, a cathode and a control grid, an anode-cathode circuit for the third triode including said second resistor, a connection from the anode of the second triode to the control grid of the third triode and a connection between the cathodes of the second and third triodes forming a grid circuit for the third triode, said second resistor

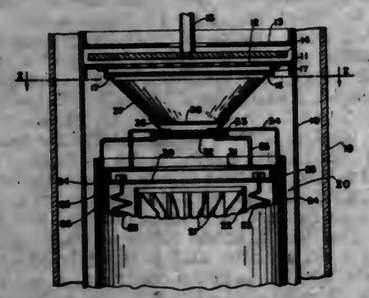
being series connected in the grid circuit of the second triode and being isolated from the anode-cathode circuit of the second triode.

2,650,997
HEAT SHIELDED CATHODE
Ward W. Watrous, Jr., Chatham, N. J., assignor to Chatham Electronics Corporation, Newark, N. J., a corporation of New Jersey
Application December 29, 1950, Serial No. 203,438
4 Claims. (Cl. 313—38)



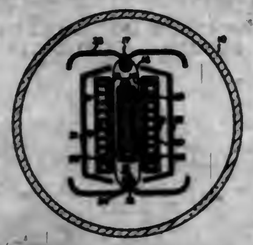
1. A heat shielded cathode for gaseous discharge devices comprising, a hollow cylindrical electrode mounted on a first disk which closes one end, a plurality of heater elements adjacent to the outside surface of the hollow electrode for heating the electrode to cause electrons to be emitted from the inner surface thereof, an inner reflecting cylinder having its lower edge coupled to the outside periphery of the first disk, said inner cylinder positioned adjacent to and surrounding the heater elements, a second disk mounted on the upper edge of the inner cylinder, and an outer reflecting cylinder having its upper edge secured to the periphery of the second disk, thereby providing a long metallic path for the conduction of heat from the hollow cylindrical electrode.

2,650,998
BAFFLE STRUCTURE IN GASEOUS DISCHARGE DEVICES
Ward W. Watrous, Jr., Chatham, N. J., assignor to Chatham Electronics Corporation, Newark, N. J., a corporation of New Jersey
Application December 29, 1950, Serial No. 203,436
5 Claims. (Cl. 313—193)



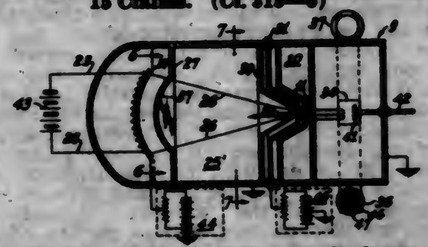
1. A gaseous discharge device comprising, an envelope, a gas within the envelope, a heated cathode for emitting electrons, a shielded anode within said envelope, a control electrode positioned between the anode and cathode for initially controlling the flow of electrons between the anode and cathode, and a cone-shaped baffle positioned between the cathode and the control electrode, said baffle secured mechanically to the cathode and including an inclined surface which directs the flow of electrons toward the periphery of the control electrode.

2,650,999
CATHODE STRUCTURE FOR ELECTRON-DISCHARGE DEVICES
Robert Adler, Northfield, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application April 11, 1950, Serial No. 155,906
10 Claims. (Cl. 313—303)



10. An electron-discharge device comprising: a bipartite thermionic cathode; indirect-heater means for said bipartite cathode; and a heaterless thermionic cathode, disposed between the composite parts of said first-mentioned cathode and substantially surrounded by a control grid, constructed at least in part of a ferro-cobalt alloy having a cobalt content of from 30% to 50% by weight and having a Curie point above 900° C.

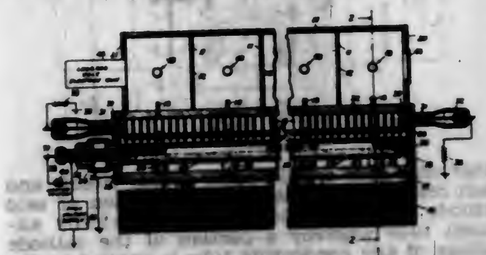
2,651,000
REFLEX VELOCITY MODULATED DISCHARGE DEVICE
Ernest G. Linder, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 22, 1949, Serial No. 128,690
15 Claims. (Cl. 315—5)



1. A velocity modulated electron discharge device of the reflex type comprising: a vacuum envelope containing an electron gun for projecting a substantially continuous beam of electrons along an axis at a predetermined velocity; resonator means comprising a pair of opposed conductive walls each formed with an aperture surrounding said axis and spaced from the other defining a capacitive interaction gap; means adjacent the aperture on the far side of the gap from the gun for producing a substantially uniform magnetic field crosswise to said axis with a sharply defined substantially planar boundary on its side nearest said gun, said field having the polarity and flux density which for said velocity and the angle at which said axis traverses said boundary cause it to guide the electrons along at least 180° of a circular path within the field to

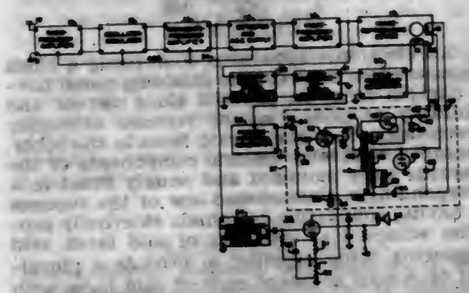
redirect them onto a return path which extends back through said gap and substantially coincides with a portion of the path of the incident beam therewithin; and a modulating electrode beyond the turnabout path of the electrons for electrically influencing the movement of electrons therein in response to an externally applied modulating signal to modulate the radio frequency energy produced by the device.

2,651,001
ELECTRON-DISCHARGE SYSTEM
William C. Brown, Lincoln, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application February 14, 1951, Serial No. 210,896
3 Claims. (Cl. 315—6)



1. An electron-discharge device comprising an evacuated envelope containing a charged particle accelerating structure, a source of alternating voltages coupled to said structure, said source comprising a linear magnetron, and a plurality of separate energy coupling means at a plurality of points spaced along said magnetron and said structure for coupling the output energy of said magnetron out of said magnetron and into said accelerating structure.

2,651,002
PERIODIC-WAVE GENERATOR
Rinaldo E. De Coin, Park Ridge, Ill., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application May 17, 1950, Serial No. 162,589
12 Claims. (Cl. 315—39)



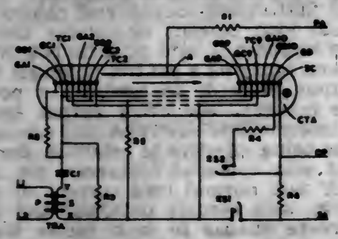
1. A periodic-wave generator comprising: a load circuit including means for coupling an inductor thereto and constituting with that inductor, when operatively coupled thereto, primarily inductance; an electron-discharge device having input electrodes, output electrodes effectively coupled across said load circuit, and an electrode intermediate said output electrodes; means coupling to said input electrodes for applying thereto a periodic potential to develop a current of saw-tooth wave form in the inductor when it is coupled to said load circuit; a first space-current supply means connected to one of said output electrodes for applying a predetermined potential thereto; and a potential-supply system including at least a second space-current supply means conductively connected to said intermediate electrode and to another of said output electrodes and effectively isolated from said first supply means and responsive to the normal load current or voltage developed therein in response to said periodic potential for deriving and applying a control potential to said other output electrode to establish a potential difference between said other output electrode and said intermediate electrode, said second supply means being effective to establish the major portion of said potential difference but, in the absence of said normal load current or potential therein, said control potential and potential difference change to such values that the space-current flow in said device is materially reduced.

2,651,003
MAGNETRON
Lewis Greenwald, deceased, late of New York, N. Y., by Sylvia Greenwald, administratrix, New York, N. Y., assignor to the United States of America as represented by the Secretary of the Army
Application July 10, 1952, Serial No. 298,774
3 Claims. (Cl. 315—40)
(Granted under Title 35, U. S. Code (1952), sec. 266)



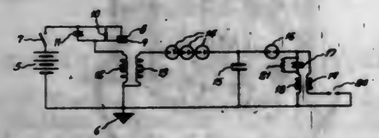
1. A hollow cavity resonator having an outer cylindrical wall connected to upper and lower annular plates; a cathode axially and centrally positioned within said resonator; a first set of interleaving teeth comprising one series of alternate teeth depending from the inner periphery of said upper plate and a second series of alternate teeth extending from the inner periphery of said lower plate; a second set of interleaving teeth circumferentially disposed within said first set of teeth and concentric therewith, said second set of teeth comprising two series of alternate teeth, each alternate series of said second set of teeth having discrete supporting means; and means connecting said second set of teeth to said first set of teeth whereby said second set of interleaving teeth presents a π-mode distribution to the electron space charge from said cathode at a preselected higher mode of oscillations.

2,651,004
ELECTRONIC COUNTING AND/OR SELECTING ARRANGEMENT
John Reginald Acton, Bunny, England, assignor to Ericsson Telephones Limited, London, England
Application June 20, 1951, Serial No. 232,571
In Great Britain June 22, 1950
12 Claims. (Cl. 315—169)



1. A cold cathode gaseous discharge device comprising a gas filled envelope, an electrode mounting therein, a plurality of electrodes carried by said mounting, a common electrode carried by said mounting and spaced from said plurality of electrodes to provide a succession of discharge gaps between said common electrode and said plurality of electrodes, said plurality of electrodes being arranged in at least four categories with each electrode of each category interposed in the same sequence between electrodes of other categories, means within the envelope connecting together all the electrodes of one category and connections extending through the envelope whereby said plurality of electrodes and said common electrode may be connected to sources of electrical potential.

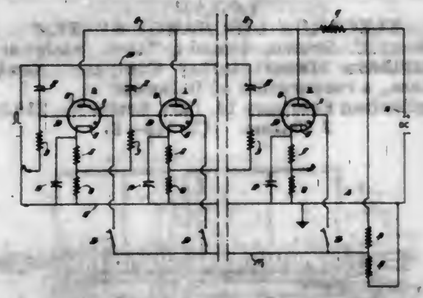
2,651,005
ELECTRICAL APPARATUS
Tullio Tognola, Sidney, N. Y., assignor to Bendix Aviation Corporation, New York, N. Y., a corporation of Delaware
Application September 24, 1951, Serial No. 248,028
14 Claims. (Cl. 315—206)



1. Electrical apparatus comprising a source of electrical energy, a transformer comprising primary and secondary windings, a first branch comprising a first condenser connected in series with said primary winding, a second branch comprising a spark gap connected in series with said secondary winding and in parallel with said first branch, a storage condenser, control means for intermittently operatively connecting said storage condenser simultaneously across said branches, and means for connecting said source to said storage condenser to charge the same.

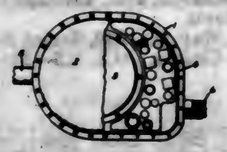
2,651,006
COUNTING RING UTILIZING COLD CATHODE TUBES
Thomas S. Medores, Jr., Granby, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware
Application December 22, 1950, Serial No. 202,303
1 Claim. (Cl. 315—329)

A counting circuit comprising a plurality of electron conducting gas filled tubes, said tubes including an anode, a control element, and a cathode capable of electron emission without an application of external heat, a source of direct current to energize said tubes, a common resistor between the positive side of said source and the anodes of all said tubes, a pair of resistors in series and a condenser connected between each cathode and the negative side of said source, a pulse supply circuit, a resistor and a condenser connected to each control element, all said control element condensers being connected at their



other terminals to said pulse supply circuit and each resistor connected to the junction of said cathode circuit resistors of an electrically adjacent tube whereby a portion of the cathode voltage of any conducting tube is applied to the grid of another tube, a starting conductor having a positive voltage and a plurality of normally open switches, each switch connected between a control element of a tube and the starting voltage conductor, closure of any switch causing the associated tube to become conducting.

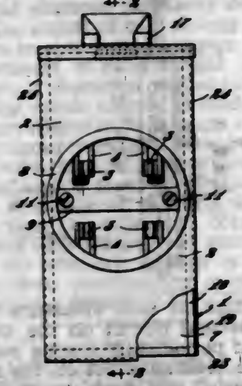
2,651,007
ELECTRONIC APPARATUS AND METHOD OF MOUNTING
Billy R. Shepard and Robert B. Crandell, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application October 1, 1945, Serial No. 619,721
3 Claims. (Cl. 317—101)



1. An electronic apparatus comprising a block composed of an electrostatic shielding metal having parallel faces on opposite sides thereof and a plurality of closely spaced recesses extending therethrough from one of said faces to the other, a plurality of diverse electric components of the apparatus each mounted and snugly fitted in a correspondingly dimensioned one of the recesses and having connecting terminals externally projecting adjacent at least one of said faces, said components being oriented to provide a plurality of terminals adjacent each of said faces with the terminals of the components in electrically associated circuits of said apparatus adjacent a respective one of said faces whereby the electrical circuit connections of associated circuits of the apparatus may be made between the terminals of the components adjacent each face area respectively, said block having a thickness of the order of the length of said components to provide an effective electrostatic shield between the components of said apparatus and between the connections on respectively opposite sides of said

block, and also to provide a partially encasing breakage protecting supporting structure for said components.

2,651,008
METER BOX AND COVER
Ernest G. Johannsen, Belmont, Mass., assignor to Ancher Manufacturing Company, Boston, Mass., a corporation of Massachusetts
Application September 27, 1950, Serial No. 187,001
2 Claims. (Cl. 317—105)



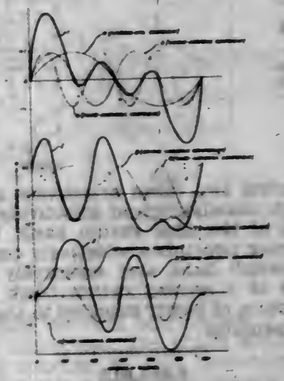
1. A meter mounting box having a back, upper and side walls, a cover for the box having means forming an opening for a meter therethrough, said box and cover being designed to enclose a jaw terminal extending into said opening, extending downwardly from said upper wall a flange having a lip directed rearwardly toward said back wall, at one edge of the cover a forwardly extending flange disposed to lie between said upper wall and lip when the cover abuts the edges of the side walls, said side walls normally abutting said cover and the box lip extending inwardly so as to obstruct downward movement of the cover flange so that the cover flange only supports the cover in a temporary position generally parallel with said side wall edges and with said opening means out of engagement with said terminal, the cover flange and box lip engaging with a line contact providing a pivot for swinging the cover to a position where said opening means clears said terminal and said flange is unobstructed to permit removal of the cover from the box, means forming an air passage at the bottom of the box, said box flange and lip being arranged to allow unobstructed movement of the cover from said temporary position to a fixed position in which the cover flange is spaced from the box flange and lip to afford a second cooperating air passage between the flanges, and mounting means for holding the cover in said fixed position.

2,651,009
TRANSISTOR DESIGN
Earl A. Meyer, Madison, Wis., assignor to Bjerknes Research Laboratories, Inc., a corporation of Illinois
Application May 3, 1952, Serial No. 285,902
3 Claims. (Cl. 317—235)



1. A transistor comprising two n-layers and between these a p-layer comprising a membrane adhered by surface tension powers to an annular conductor, having an inner diameter greater than the outer diameter of at least one of the n-layers.

2,651,010
HARMONIC ERROR COMPENSATOR
Harry C. Wendt, Nahant, Mass., assignor to General Electric Company, a corporation of New York
Application May 16, 1951, Serial No. 226,635
30 Claims. (Cl. 318—24)

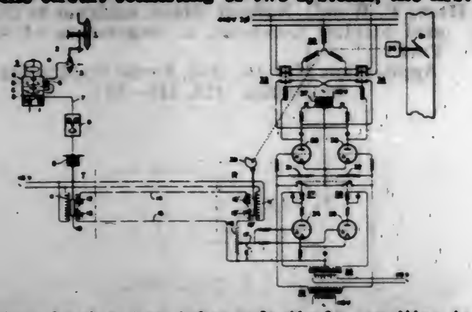


1. An angular motion translating arrangement comprising at least one rotatable member, the intelligence output of said arrangement being regulated by the angular orientations of said member, a first compensator introducing magnetic flux into said arrangement to correct the intelligence output of said system responsive to the angular positions of said member and in opposite senses and to extents varying as the fundamental harmonic component of the pattern of errors between the actual and theoretically correct intelligence outputs of said arrangement for various angular positions of said rotatable member, a second compensator correcting said intelligence output responsive to the angular positions of said member and in opposite senses and to extents varying as the second harmonic component of said pattern of errors, and a third compensator introducing magnetic flux into said arrangement to correct said intelligence output responsive to the angular positions of said member and in opposite senses and to extents varying as the third harmonic component of said pattern of errors.

2,651,011
ELECTRIC MOTOR CONTROL SYSTEM RESPONSIVE TO FLUID PRESSURE SIGNAL
Anthony J. Hornfeck, Lyndhurst, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application October 26, 1949, Serial No. 123,671
2 Claims. (Cl. 318—28)

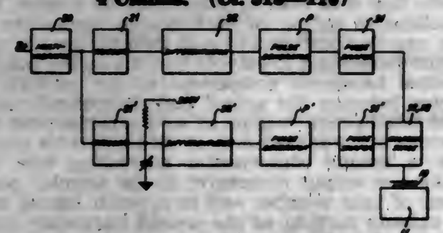
1. A control system for positioning a damper or the like for regulating the value of a variable including, in combination, a reversible electrical power regulator for positioning the damper or the like, means sensitive to the variable which establishes a fluid pressure continuously representative of the value thereof, a balanceable telemetering network including two movable core transformers, means positioning an element of the first of the movable core transformers in accordance with the said fluid pressure, electronic circuit

means phase sensitive to the relatively small electrical value of the network unbalance for controlling the direction of application of the relatively large power of the said reversible electrical regulator, means connecting said regulator to an element of the second transformer whereby balance is restored in the network, the said electronic circuit consisting of two systems, the first



system having two tubes selectively sensitive to the network unbalance and selectively activating one switch of the first switch bank, the second system having two tubes selectively controlled by the first switch bank and selectively activating one switch of a second switch bank in control of the direction of power supplied to the reversible electrical regulator.

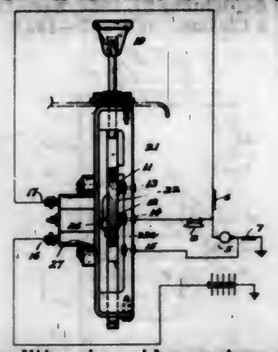
2,651,012
TRANSDUCER CONTROL
Howard E. Van Valkenburg, Candlewood Isle, and Edward G. Cook, Stratford, Conn., assignors to Sperry Products, Inc., Danbury, Conn., a corporation of New York
Application June 12, 1952, Serial No. 293,228
4 Claims. (Cl. 318—116)



1. The method of producing by a crystal transducer a wave train of mechanical energy of a controlled number of cycles, which consists in generating a voltage wave train, applying the wave train to the transducer to cause the transducer to vibrate mechanically, generating a second voltage wave train which is electrically independent of said first wave train, shaping the second wave train, and applying the second wave train to the transducer a predetermined time interval after the first wave train has been applied to the transducer to cause mechanical vibrations produced by the face of the transducer equal and opposite to the mechanical vibrations existing at the face of the transducer at the instant of application of the second wave train.

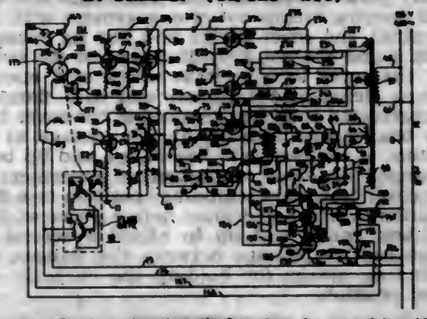
2,651,013
ELECTRIC WINDSHIELD WIPER CONTROL
Robert C. Bohl, Sturtevant, Wis., assignor to Redmond Company, Inc., Owosso, Mich., a corporation of Michigan
Application November 3, 1950, Serial No. 193,977
2 Claims. (Cl. 318—275)

1. In a windshield wiper control circuit, a source of current, a wiper linkage drive including a motor having armature and field windings, a first circuit including a thermostatic switch connecting said armature and field windings with said source, a periodically closing motor-operated switch, a second circuit including said armature winding and said periodically closing switch, normally separated switch elements in said second circuit, and manually operable motor-starting and stopping means for bridging said normally separated switch elements to create a short-cir-



cuiting condition in said armature winding by way of said second circuit on the next ensuing closure of said periodically closing switch, to exert a dynamic braking effect on the motor prior to interruption of said first circuit and thereby stall the wiper linkage, said means further operating to cause the opening of said thermostatic switch by reason of the increased current flow in said first circuit as a result of said dynamic braking effect.

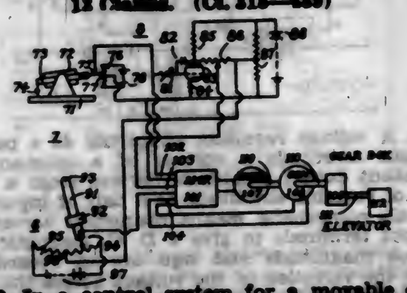
2,651,014
ELECTRONIC AMPLIFIER WITH DOUBLE FREQUENCY DISCRIMINATOR
Robert R. Chapman, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application March 24, 1949, Serial No. 83,166
17 Claims. (Cl. 318—323)



9. An electronic circuit having in combination: a source of alternating voltage; a signal voltage of twice the frequency of said source; a first electron discharge device having an anode, a cathode and a control electrode; means applying said signal voltage to said control electrode; a full wave rectifier supplied by said source; a transformer; means connecting said rectifier output through said transformer to produce a voltage of twice the frequency of said source; means connecting the output of said transformer to the anode of said device; a resistor in the cathode circuit of said discharge device; a capacitor connected across said resistor such that the voltage across said resistor upon operation of said device is uni-

directional voltage; a gaseous discharge device having an anode, a cathode and a control electrode; means connecting said anode of said gaseous discharge device to said source; means connecting the cathode of said first discharge device to the control electrode of said gaseous discharge device; a second electron discharge device having an anode, a cathode and a control electrode; a control device connected to the anode of said gaseous discharge device; a circuit, operated upon energization of said control device, which places an alternating voltage on the control electrode of said second electron discharge device; means connecting the anode of said second electron discharge device to said voltage source; a resistor in the anode circuit of said second electron discharge device; a capacitor connected across said resistor in the anode circuit of said second electron discharge device such that the voltage across said resistor upon operation of said device is unidirectional voltage; and means connecting the anode of said second electron discharge device to the control electrode of said gaseous discharge device such that the difference between the two unidirectional voltages on said control electrode determines the effective voltage on said control electrode to cause intermittent operation of said gaseous discharge device.

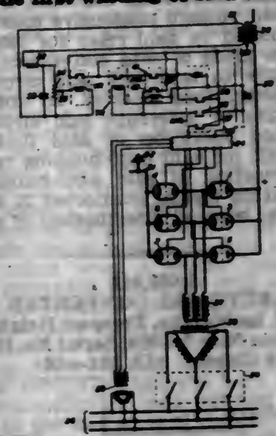
2,651,015
ELECTRIC AIRCRAFT CONTROL APPARATUS
Frederick William Meredith, Cricklewood, London, England, assignor to S. Smith and Sons (England) Limited, London, England, a British company
Application February 24, 1950, Serial No. 145,967
In Great Britain February 25, 1949
12 Claims. (Cl. 318—489)



12. In a control system for a movable craft, in combination a first device for generating a first signal in response to a condition of the craft, a second device for generating a second signal in response to the rate of change of said condition, transient integrator circuit means connected to said second device to produce a third signal which is the transient integral of said second signal and voltage supply means adjusted to such values and so connected by circuit means as to add multiples of said first and third signals which combine to produce a fourth signal representing a corrected response to said condition.

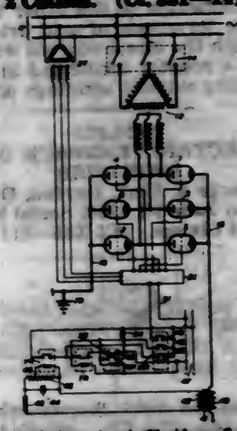
2,651,016
DIRECT CURRENT ELECTRIC POWER TRANSMISSION SYSTEM
Felix Bussmann, Greenford, England, assignor, by mesne assignments, to E. R. A. Patents Limited, Leatherhead, England, a body corporate of Great Britain
Application March 14, 1952, Serial No. 276,596
In Great Britain March 22, 1951
3 Claims. (Cl. 321—14)

1. In an inverting installation for a high voltage direct current electric power transmission system, the combination of a pair of direct current terminals, a line conductor connected to one of said terminals, a smoothing inductor connected in said line conductor, three pairs of grid-controlled current converters connected anode to cathode between said terminals, grid control means for said converters, a three-phase power transformer having two windings, a three-phase alternating current supply, the phase connections of the first winding of said transformer be-



ing connected between mid-points of said pairs of current converters, the phase connections of the second winding of said transformer being connected to said alternating current supply, a relay, means responsive to voltage across said smoothing inductor for operating said relay and circuit means completed by said relay for adjusting the phase angle of impulses supplied by said grid control means.

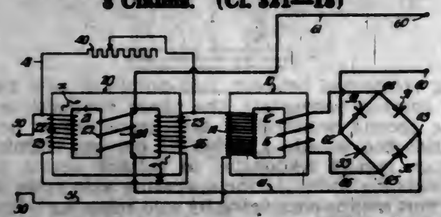
2,651,017
PROTECTIVE APPARATUS FOR DIRECT CURRENT TRANSMISSION LINES
Felix Bussmann, Greenford, England, assignor, by mesne assignments, to E. R. A. Patents Limited, Leatherhead, England, a body corporate of Great Britain
Application March 14, 1952, Serial No. 276,596
In Great Britain March 22, 1951
2 Claims. (Cl. 321—14)



1. In a rectifying installation for a high voltage direct current electric power transmission system, the combination of a three phase alternating current supply, a three phase power transformer having its primary winding connected to said alternating current supply, a pair of direct current terminals, three pairs of grid-controlled mercury vapour current converters connected anode to cathode between said termi-

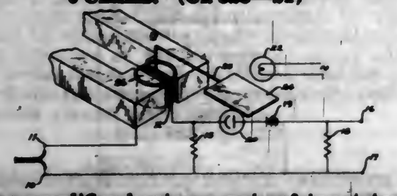
nals, the phase connections of the secondary winding of said transformer being connected between the mid-points of said pairs of current converters, grid control means for said converters, a line conductor connected to one of said terminals, a smoothing inductor connected in said line conductor, means responsive to voltage across said smoothing inductor, a relay operated by said voltage responsive means, circuit means completed by said relay for blocking impulses to the grids of said converters, a timing relay operative to interrupt said circuit means after a predetermined interval, an anti-hunting relay operative to interrupt said circuit means after repeated operation of said first relay, a holding circuit for said anti-hunting relay energized by operation of said anti-hunting relay, and push-button means connected in said holding circuit for manual interruption of said holding circuit.

2,651,018
ELECTRICAL CONVERTER
Austin W. Le Marche, Prospect Heights, Ill.
Application May 8, 1950, Serial No. 160,759
8 Claims. (Cl. 321—18)



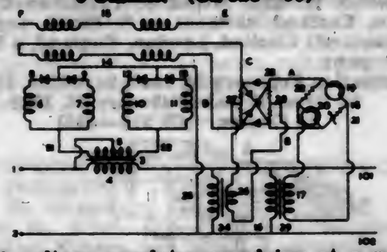
1. In an electrical converter of the class described, the combination of a transformer, primary and secondary windings on said transformer, a reactor comprising a three-legged core, alternating current windings on the outer legs of said core and a direct current winding on the center leg of said core, an alternating current input circuit extending in series through the primary winding of said transformer and the alternating current windings of said reactor, a full-wave rectifying bridge having two diametrically opposite terminals connected to the secondary winding of said transformer, a direct current output circuit connected to the other two diametrically opposite terminals of said bridge and connected through the direct current winding of said reactor, and a resistor connected in shunt across said alternating current windings of said reactor.

2,651,019
PHOTOELECTRIC FEEDBACK OPERATED AMPLIFIER
George A. Fisk, Dayton, Ohio
Application June 12, 1950, Serial No. 167,797
6 Claims. (Cl. 323—21)



1. An amplifier having a pair of input terminals and a pair of output terminals comprising in combination, a source of electromagnetic radiation; unidirectional impedance means variable in accordance with the amount of electromagnetic radiation striking one surface thereof mounted adjacent to said source; an output circuit including in series relation said variable impedance means, load resistance means connected across said output terminals, a second impedance and a source of electromotive power; a shutter normally interposed between said source of electromagnetic radiation and said variable impedance means; electromechanical means adapted to displace said shutter and an input circuit including said input terminals and said second impedance and means for actuating said electromechanical means in response to a signal applied across said input terminals to displace said shutter by an amount proportional to a signal voltage applied across said input terminals to permit electromagnetic radiation from the radiation source to strike the variable impedance means to vary the impedance thereof to permit current flow in the output circuit in such a direction as to develop a voltage across said second impedance to oppose the applied voltage thereby causing said shutter to seek a position such that the current flow in the output circuit is proportional to the input signal voltage.

2,651,020
VOLTAGE REGULATOR
Frederick Roger Milsom, Boreham Wood, England, assignor to S. Smith and Sons (England) Limited, London, England, and Furzehill Laboratories Limited, Boreham Wood, England
Application July 23, 1951, Serial No. 238,040
In Great Britain July 27, 1950
9 Claims. (Cl. 323—66)

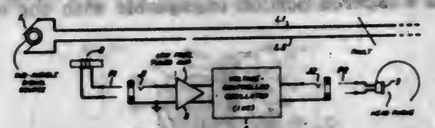


1. A voltage regulator supplying at a pair of output terminals a voltage of a substantially constant datum amplitude derived from a voltage of variable amplitude at a pair of input terminals comprising means connected across the output terminals to give a D. C. magnetic flux whose magnitude and sign are in accordance with the variation of the voltage across the output terminals from its datum amplitude, a transformer whose secondary winding is connected in series between the first input terminal and the first output terminal, said transformer having a centre-tapped primary, the centre tap of said primary being connected to one of the input terminals, two similar variable impedance elements of the saturable reactor type connected respectively between the other input terminal and the remaining terminals of the transformer primary and means to vary the impedances of the variable impedance elements differentially in accordance with the aforementioned D. C. magnetic flux, the variation being such that the voltage across the transformer secondary is such as to reduce the variation of the voltage between the output terminals from its datum amplitude.

2,651,021
FAULT DETECTOR
James B. Hays, Jr., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 20, 1951, Serial No. 221,904
8 Claims. (Cl. 324—52)

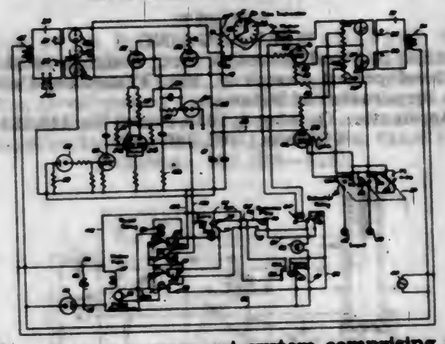
1. Means for locating cable faults in cable conductors carrying an alternating tracer current,

comprising a pick-up means adapted to receive electromagnetic energy radiated from said cable due to the flow of said tracer current, an amplifier tuned to transmit current of the frequency of said tracer current, an input circuit for said amplifier connected to the pick-up means to receive and amplify the energy picked up, an output circuit for the amplifier, an oscillator having a



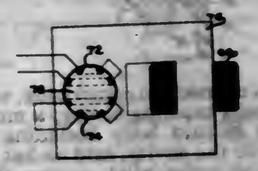
means adapted to normally stop the oscillations thereof, a circuit connecting said means and the amplifier output circuit to the oscillator, said circuit being so constructed and arranged as to cause the oscillator to oscillate only as the amplified energy exceeds a predetermined limit, and an indicating means connected to the oscillator and responsive to the oscillations thereof.

2,651,022
TIME MEASUREMENT SYSTEM
Edwin F. Shelley, New York, N. Y., assignor to American Chronoscope Corporation, Mount Vernon, N. Y., a corporation of New York
Application June 4, 1949, Serial No. 97,249
10 Claims. (Cl. 324—68)



3. A time measurement system comprising reception means to receive a signal delineating a time interval, including means to transmit said signal in the form of a voltage pulse equal in width to the duration of said time interval, a timing capacitor, a first voltage source to charge said capacitor, a timing resistor, means responsive to said signal to cause the discharge of said timing capacitor through said resistor for a period of time equal to said time interval comprising first switch means intermediate said timing capacitor and said first voltage source, a flip-flop circuit controlling said switch means and adapted to open the same upon receiving the forward edge of a pulse from said reception means and hence remove said first voltage source from said timing capacitor, second switch means connecting said timing resistor across said capacitor when said second switch means are closed, said second switch means being adapted to close upon receiving the forward edge of a pulse from said reception means and to open and remove said resistor from said capacitor at the termination of said pulse and means to measure the voltage across said capacitor at the end of said period of time including a potentiometer having a resistance element and a movable arm in contact therewith, said first voltage source being connected across said resistance element, said timing capacitor having a first terminal common to one terminal of said resistance element and a second terminal not common thereto, a motor coupled to said arm and adapted to move said arm along said resistance element and detector means comprising a detector tube having at least a control grid, a cathode and an anode, the grid-cathode circuit thereof including in series said arm, the portion of said resistance element between said arm and said first terminal and said timing capacitor, and the cathode-anode circuit thereof including a detector voltage source and a relay adapted to close when the cathode-anode current reaches a first predetermined level and to thereby energize said motor, and adapted to open when said current reaches a second predetermined level, said detector tube being biased so as to conduct to the extent necessary to close said relay when a first predetermined voltage is presented across its grid and cathode and hence energize said motor and move said arm and to open said relay when a second predetermined voltage is presented across its grid and cathode and hence de-energize said motor and halt the movement of said arm, said level of cathode-anode current and said bias point being so selected that the point on said resistance element at which said arm is halted will bear a predetermined relationship to said voltage across said capacitor at the end of said period of time.

2,651,023
VARIABLE TRANSFORMER FOR ALTERNATING CURRENT WELDERS
Francis R. Miller, Dayton, Ohio, assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio
Original application June 12, 1946, Serial No. 676,467. Divided and this application May 15, 1951, Serial No. 227,261
3 Claims. (Cl. 336—79)

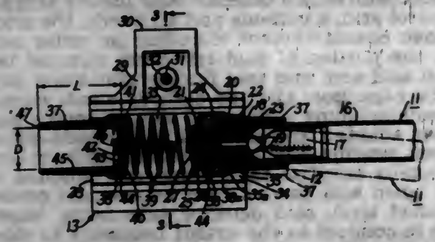


1. An auto-transformer for welding comprising a coil having primary and secondary windings, said coil having opposite ends forming output terminals, said primary winding being connected with a primary supply circuit and being variably coupled with said secondary winding, and said secondary winding having permanently coupled in substantially maximum inductive relation therewith a short circuited compensating winding.

2,651,024
COLD CATHODE ILLUMINATING ASSEMBLY AND INSULATOR HOUSING THEREFOR
Samuel C. Miller, New York, N. Y.; Rosalie E. Miller, executrix of said Samuel C. Miller, deceased
Application January 31, 1950, Serial No. 141,377
1 Claim. (Cl. 339—55)

A housing made of insulating material having a socket, the socket being closed by a loose fitting collar, said collar having a conical seat at its inner end within the socket and having its walls formed exteriorly to provide a graduated neck extending into the socket and which is loosely, tiltably, telescopically slidable therein, stop

means comprising a flange at the mouth of the socket and an outwardly directed flange on the collar interlocking the housing and collar, an expansion spring having an axial convolution providing a terminal contact and an outer con-



volution engaging the collar, and together providing a resilient extension shielding the contact and providing a resilient set, said collar having an axial bore through which the axial convolution of said spring extends.

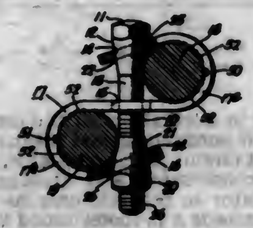
2,651,025
ELECTRICAL CONNECTION FOR DISTRIBUTORS
Harold V. Elliott, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 26, 1949, Serial No. 123,685
1 Claim. (Cl. 339—97)



An electrical connection comprising, an insulating body having a tapering cavity; a metal member embedded in said body including a socket which lines with the cavity, said socket including an internal circumferential groove therein; a cable having a flexible conductor and a yieldable sheath; and a conducting band embracing the cable adjacent one end thereof, said band being split the entire length thereof and being slightly larger in diameter than the socket, said band having a prong piercing the sheath and contacting the conductor to hold the band in assembly with the cable and having bosses adapted to be received by the groove, said band, when inserted in the socket, adapted to be compressed radially inwardly so as to fit in the socket and causing the sheath within the confines of the band to be placed under radial compression and also for causing the sheath above the band to expand radially outwardly into sealing contact with the cavity.

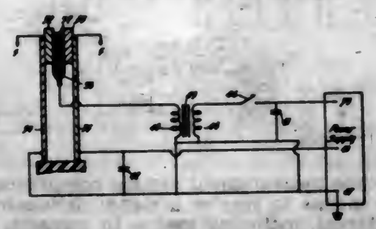
2,651,026
S-SHAPED ELECTRICAL CONNECTING AND CLAMPING STRAP
Raymond T. Roth, Philadelphia, Pa.; Elsie Edwards Roth and Norman Klauder, executors of said Raymond T. Roth, deceased
Application January 24, 1950, Serial No. 140,275
6 Claims. (Cl. 339—246)

1. A clamp assembly for joining a pair of electrical conductors and the like, comprising an S-shaped metal strap to extend about and embrace the conductors, said strap having an aperture in each end portion and an aperture in its central portion, the aperture in each end portion being defined by a circular wall extending perpendicularly to the faces of the strap, a bolt for insertion through said apertures having a threaded shank freely insertable through the apertures and a tapered portion engageable with the wall



defining one of the end apertures, and a nut threadedly engageable with said shank and having a tapered portion engageable with the wall defining the other end aperture, whereby tightening of the bolt and nut causes oblique positioning of the end portions of the strap relative to the axes of said tapered portions and effects biting line contact of each tapered portion with the associated wall completely about the tapered portion.

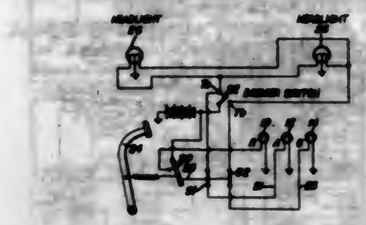
2,651,027
WELL LOGGING
Charles B. Vogel, Houston, Tex., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application October 1, 1949, Serial No. 119,128
4 Claims. (Cl. 340—18)



1. Apparatus for generating acoustic waves in a well borehole comprising transmitter means for originating a steep front mechanical wave in the borehole liquid, said transmitter means comprising two electrodes immersed in a liquid, electrical circuit means for applying a potential between said two electrodes, a trigger electrode positioned in said liquid between said two electrodes, and electrical circuit means for applying between said trigger electrode and at least one of said two electrodes a potential having a sufficiently high value to initiate ionization in the space between said two electrodes, whereby a spark discharge is produced through the liquid between said two electrodes by the potential applied thereto.

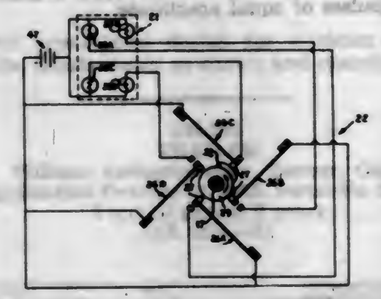
2,651,028
SIGNAL LAMP UNIT FOR AUTOMOBILES
William H. Depree, Jr., Pine Bluff, Ark.
Application November 27, 1950, Serial No. 197,780
5 Claims. (Cl. 240—66)

1. In a vehicle having a brake-pedal and a headlight dimmer switch, a night driving courtesy traffic light comprising a brake pedal operated switch electrically connected to the dimmer switch, a first lamp electrically connected to the brake-pedal operated switch to be energized as the brake-pedal operated switch is moved to its circuit closing position and including a red colored face plate, a second lamp electrically connected to one terminal of the dimmer switch to be illuminated when the dimmer switch is actuated to dim the headlights of the vehicle and



including an amber colored face plate, and a third lamp electrically connected to the other terminal of the dimmer switch to be energized when the dimmer switch is actuated to permit the headlights of the vehicle to be intensified from their dimmed position and including a green colored face plate, said first, second and third lamps being disposed in juxtaposition with their face plates facing rearwardly.

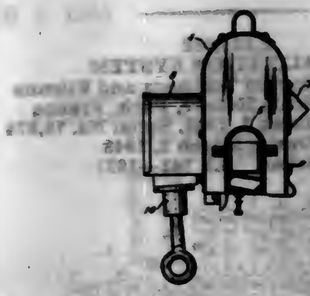
2,651,029
INDICATOR FOR APPARATUS ADAPTED TO DETECT SUSPENDED MATTER IN FLUIDS
Arthur W. Uhl, Inwood, N. Y., assignor to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey
Application March 6, 1951, Serial No. 214,978
7 Claims. (Cl. 340—212)



1. In apparatus for detecting suspended matter in fluids, the combination of a plurality of indicating means, switch means for each of said indicating means, rotatable cam means adapted for effecting operation of said switch means successively, means for normally maintaining said cam means ineffective to contact and operate said switch means, and means operable in response to the detection of suspended matter in fluids for rendering said cam means effective to operate said switch means.

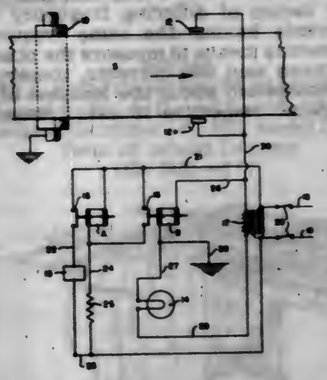
2,651,030
LINE FAULT SIGNAL DEVICE
Thomas E. Gardner, Raleigh, N. C.
Application August 31, 1951, Serial No. 244,670
10 Claims. (Cl. 340—253)

1. An electromechanical line-fault signal device comprising in combination, means for securing the device on an electrical conductor, a magnetic core and cooperating armature adapted to straddle and form a closed magnetic path about the conductor in response to a conductor overcurrent, a normally invisible movable indicator,



means cooperating with said armature to move the indicator into visible position in response to a conductor overcurrent, and means operably associated therewith for automatically returning the indicator to invisible position during conductor current.

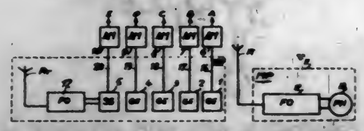
2,651,031
STRIP TRACKING ALARM
Philip H. McConaghey, Pittsburgh, Pa., assignor to United States Steel Corporation, a corporation of New Jersey
Application June 18, 1951, Serial No. 232,223
3 Claims. (Cl. 340—259)



1. A device for warning when a metal strip tracks improperly comprising a ground connected to the strip, a contact plate which the strip normally clears but is adapted to contact when tracking improperly, a visual signal, an audible signal, and an electric circuit including a pair of relays and a step-down transformer having power lines connected to its primary coil, the contacts of one of said relays and one of said signals being connected in series across said lines, the coil of this relay also being connected across these lines, the contacts of the second relay being connected in parallel with the coil of the first relay, the coil of the second relay and the other signal being connected in series across the secondary coil of said transformer, said contact plate being connected between the secondary coil of said transformer and the coil of the second relay, the connection between the coil of the second relay and said second signal being grounded, both relays being energized when the strip is tracking properly and holding their contacts open, con-

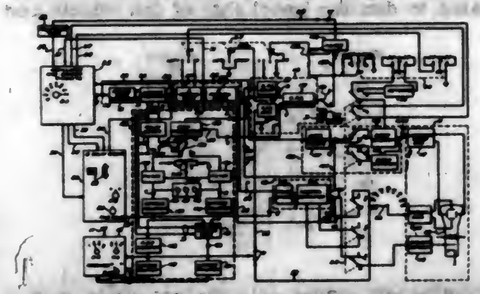
tact by the strip with said contact plate short-circuiting the coil of the second relay through the ground and thereby de-energizing this relay, actuating said second signal, short-circuiting the coil of the first relay, de-energizing this relay, and actuating said first signal.

2,651,032
LOCALIZATION SYSTEM
Emile Léon Gabriel Tercheux and Etienne Augustin Henri Honoré, Paris, France
Application March 1, 1949, Serial No. 79,074
In France March 2, 1948
26 Claims. (Cl. 343—105)



1. In a system for determining the location of a receiving point respective to spaced transmitters by comparing at said receiving point the phases of signals emitted by said transmitters and received at said receiving point, at least two spaced transmitters for emitting at least three different high frequency waves, the choice of said frequencies being limited by the only condition which is sufficient and necessary that the algebraic sum of the respective products of said frequencies by any integers, at least one of which is positive and at least one of which is negative, is zero, at said receiving point: a receiver comprising in combination filtering, amplifying and mixing means to receive said waves and deduce therefrom by means of differing frequency mixtures two currents having the same frequency and phasemetering means to measure the phase difference between said two currents, thereby to provide an indication about the location of said receiving point respective to said transmitters.

2,651,033
AUTOMATIC AMPLITUDE BALANCING CIRCUITS
Wilbert P. Frantz, Glen Head, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application January 21, 1952, Serial No. 267,441
9 Claims. (Cl. 343—103)

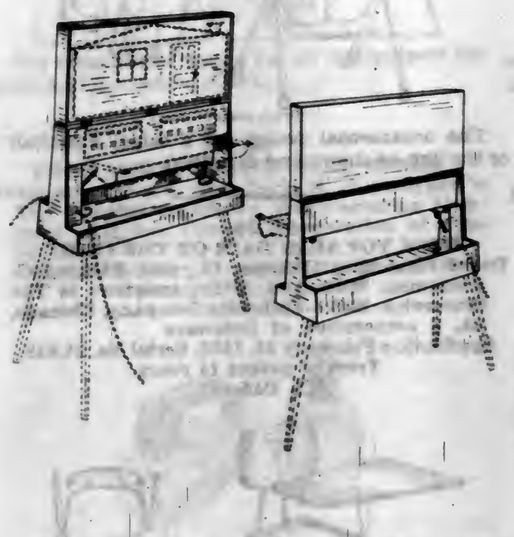


1. In a hyperbolic navigation receiver receptive to master pulses and slave pulses from distant transmitters wherein the strength of the received master pulses may be different from the strength of the received slave pulses; an automatic amplitude balance control system comprising, means coupled to the output of said receiver and alternately producing a first voltage version varying according to the strength of said master pulses and a second voltage version varying according to the strength of said slave pulses, means coupled to said producing means and separating said first voltage versions and said second voltage versions into different channels, means responsive to the difference between the strengths of the separated first and second voltage versions to produce a control voltage, and means adjusting the amplification of said received master pulses and said received slave pulses with said control voltage to produce output master and slave pulses of equal amplitude.

DESIGNS

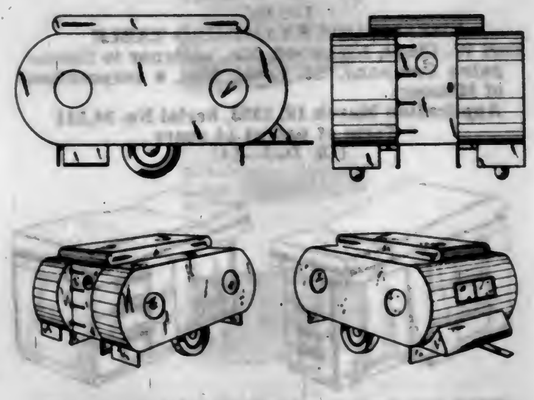
SEPTEMBER 1, 1953

170,296
VISION TESTING DEVICE
John T. Armbruster, Niagara Falls, N. Y., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application April 23, 1953, Serial No. 19,449
Term of patent 14 years
(Cl. D57—7)



The ornamental design for a vision testing device, substantially as shown and described.

170,297
TRAILER
William Aschenbrenner, Denver, Colo.
Application October 30, 1952, Serial No. 22,059
Term of patent 7 years
(Cl. D16—8)



The ornamental design for a trailer, as shown.

170,298
BOTTLE
Stanley N. Barbee, Los Angeles, Calif.
Application June 22, 1953, Serial No. 25,588
Term of patent 14 years
(Cl. D58—8)



The ornamental design for a bottle, as shown and described.

170,299
SILK SCREEN STENCIL MACHINE
James A. Black, Grand Rapids, Mich.
Application November 10, 1952, Serial No. 22,222
Term of patent 14 years
(Cl. D65—1)



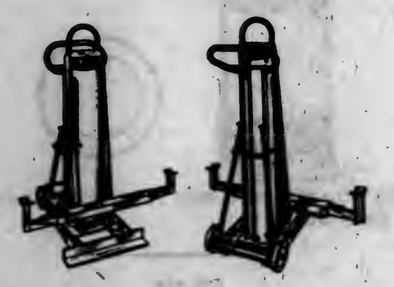
The ornamental design for a silk screen stencil machine, substantially as shown and described.

170,300
BROOCH OR SIMILAR ARTICLE
Marcel Boucher, Eltingville, N. Y.
Application December 16, 1952, Serial No. 23,732
Term of patent 3½ years
(Cl. D45—19)



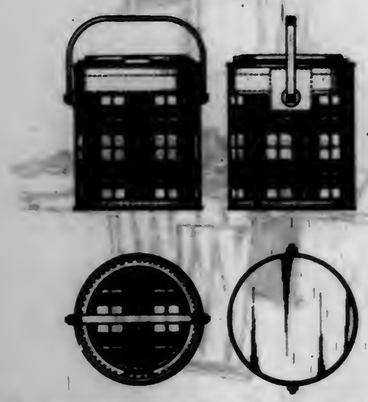
The ornamental design for a brooch or similar article, as shown and described.

170,301
FLUID PRESSURE OPERATED BUMPER JACK FOR AUTOMOTIVE VEHICLES
Charles E. Branick, Fargo, N. Dak.
Application July 10, 1952, Serial No. 20,555
Term of patent 14 years
(Cl. D41—1)



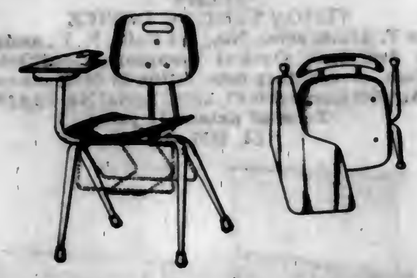
The ornamental design for a fluid pressure operated bumper jack for automotive vehicles, as shown and described.

170,302
INSULATED PAIL
Petra Cabot, New York, N. Y., and Herbert M. Piker, Wyoming, Ohio
Application May 9, 1952, Serial No. 19,648
Term of patent 14 years
(Cl. D56—17)



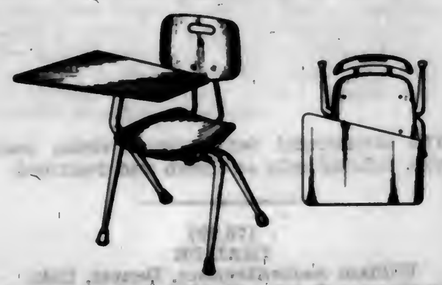
The ornamental design for an insulated pail, substantially as shown.

170,303
TABLET ARMCHAIR OR THE LIKE
David Chapman, Chicago, Ill., and Richard G. Reineman, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware
Application February 13, 1953, Serial No. 23,614
Term of patent 14 years
(Cl. D15—8)



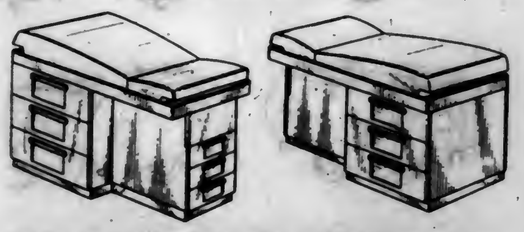
The ornamental design for a tablet armchair or the like, as shown and described.

170,304
DESK TOP ARMCHAIR OR THE LIKE
David Chapman, Chicago, Ill., and Richard G. Reineman, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware
Application February 13, 1953, Serial No. 23,615
Term of patent 14 years
(Cl. D15—8)



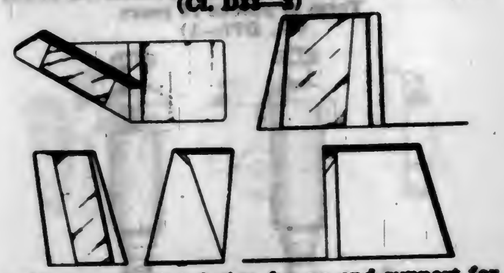
The ornamental design for a desk top armchair or the like, as shown and described.

170,305
PHYSICIAN'S EXAMINING TABLE
Earl W. Claus, Kirkwood, Mo., assignor to Shampaine Company, St. Louis, Mo., a corporation of Missouri
Application March 19, 1953, Serial No. 24,111
Term of patent 14 years
(Cl. D32—14)



The ornamental design for a physician's examining table, substantially as shown.

170,306
END SUPPORT FOR BOOKS AND THE LIKE
Melville W. Clement and Harry L. Stevenson, Jamestown, N. Y.
Application March 9, 1953, Serial No. 23,959
Term of patent 14 years
(Cl. D32—3)



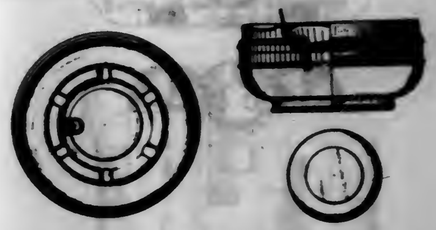
The ornamental design for an end support for books and the like, as shown.

170,307
FOOD AND BEVERAGE HAND MIXER
Francesco Collura, New York, N. Y., assignor to The Winsted Hardware Manufacturing Company, Winsted, Conn., a corporation of Connecticut
Application May 27, 1953, Serial No. 19,913
Term of patent 14 years
(Cl. D44—1)



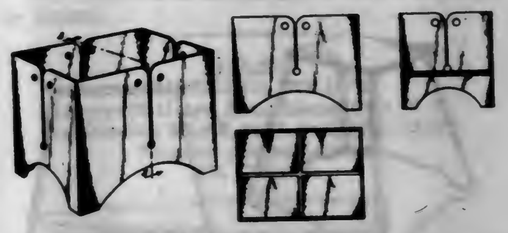
The ornamental design for a food and beverage hand mixer, as shown and described.

170,308
COMBINED ASH TRAY AND PIPE KNOCKER
Dudley Courtenay, Summit, N. J.
Application December 19, 1952, Serial No. 22,788
Term of patent 7 years
(Cl. D85—5)



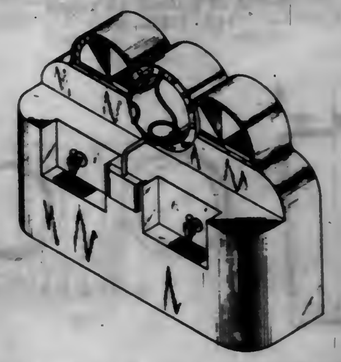
The ornamental design for a combined ash tray and pipe knocker, substantially as shown and described.

170,309
RECEPTACLE FOR NEWSPAPERS AND THE LIKE
Harry E. Curtis, Willoughby, and Glenn L. Egbert, Cleveland, Ohio
Application April 12, 1952, Serial No. 19,383
Term of patent 14 years
(Cl. D32—3)

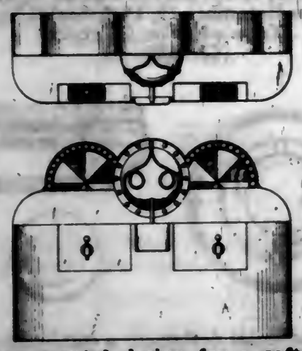


The ornamental design for a receptacle for newspapers and the like, substantially as shown and described.

170,310
SOFT DRINK DISPENSING MACHINE
Paul Destun, St. Thomas, Ontario, Canada
Application February 20, 1953, Serial No. 23,714
Term of patent 3½ years
(Cl. D9—3)

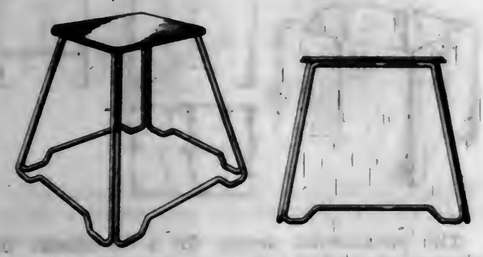


170,310—Continued



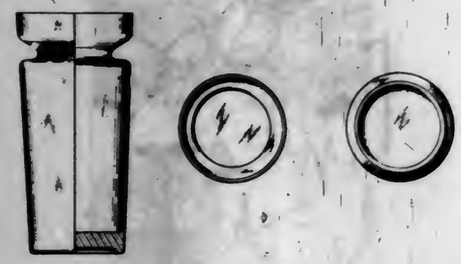
The ornamental design for a soft drink dispensing machine, as shown and described.

170,311
UTILITY STOOL
Donald W. Doherty, Crystal Lake, Ill., assignor to Queen Manufacturing Co., Inc., Chicago, Ill., a corporation of Illinois
Application March 13, 1953, Serial No. 24,095
Term of patent 14 years
(Cl. D15—8)



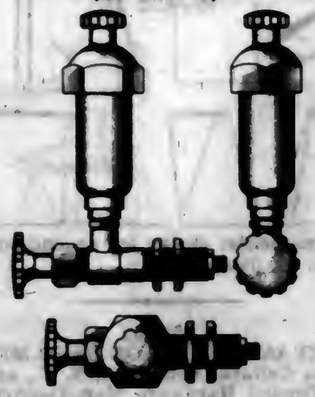
The ornamental design for a utility stool, as shown.

170,312
DRINKING GLASS
Edward J. Foster, Cincinnati, Ohio, assignor to Agnes C. Foster, Cincinnati, Ohio
Application April 17, 1952, Serial No. 19,371
Term of patent 14 years
(Cl. D36—8)



The ornamental design for a drinking glass, as shown and described.

170,313
ENGINE PRIMING DEVICE
George E. Franck, Riverside, Ill., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application September 11, 1952, Serial No. 21,421
Term of patent 14 years
(Cl. D77—1)



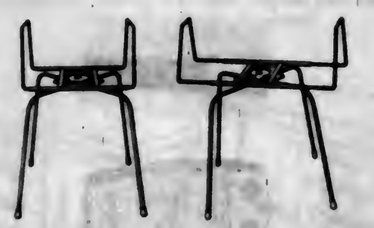
The ornamental design for an engine priming device, as shown.

170,314
PAIR OF SPECTACLES
Joseph Gaspari, Rye, N. Y.
Application March 24, 1953, Serial No. 24,182
Term of patent 14 years
(Cl. D57—1)



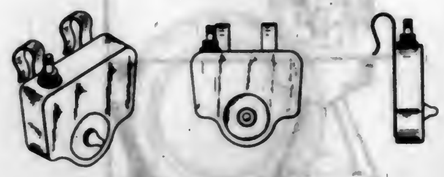
The ornamental design for a pair of spectacles, as shown.

170,315
ADJUSTABLE ROTATABLE TELEVISION TABLE
Walter Gerber, St. Louis, Mo.
Application April 20, 1953, Serial No. 24,583
Term of patent 14 years
(Cl. D32—14)



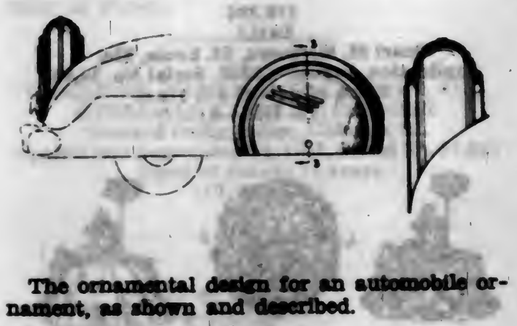
The ornamental design for an adjustable rotatable television table, substantially as shown and described.

170,316
FLASHLIGHT
Richard A. Gottlieb, Detroit, Mich.
Application December 19, 1952, Serial No. 22,782
Term of patent 3½ years
(Cl. D48—24)



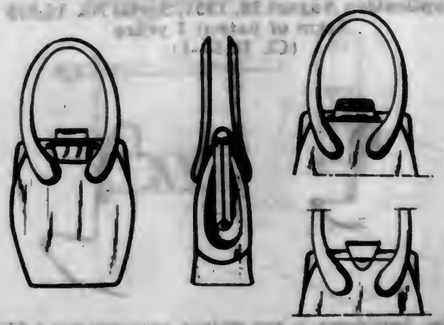
The ornamental design for a flashlight, substantially as shown.

170,317
AUTOMOBILE ORNAMENT
Wallace H. Hawkins and Homer Hawkins, Panama City, Fla.
Application September 26, 1952, Serial No. 21,604
Term of patent 14 years
(Cl. D14—30)



The ornamental design for an automobile ornament, as shown and described.

170,318
HANDBAG
Frank X. Hiltenbrand, Ridgefield, N. J.
Application March 27, 1953, Serial No. 24,229
Term of patent 3½ years
(Cl. D67—3)



The ornamental design for a handbag, substantially as shown.

170,319
LADY'S STOCKING
Frank Hoffecker, Charlotte, N. C., assignor to Chadbourn Hosiery Mills, Inc., Charlotte, N. C., a corporation of North Carolina
Application August 27, 1952, Serial No. 21,268
Term of patent 14 years
(Cl. D47—7)



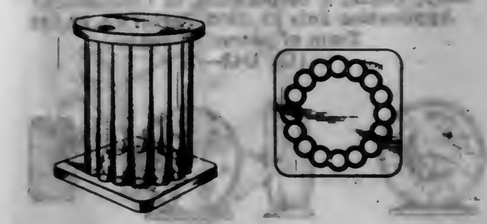
The ornamental design for a lady's stocking, as shown.

170,320
CIGARETTE HOLDER
George B. Helge, Long Island City, N. Y.
Application May 8, 1953, Serial No. 24,921
Term of patent 7 years
(Cl. D85—8)



The ornamental design for a cigarette holder, substantially as shown.

170,321
BOX FOR CRAYONS OR SIMILAR ARTICLE
Walter R. Huston, Napoleon, Ohio
Application October 27, 1952, Serial No. 21,997
Term of patent 7 years
(Cl. D68—11)



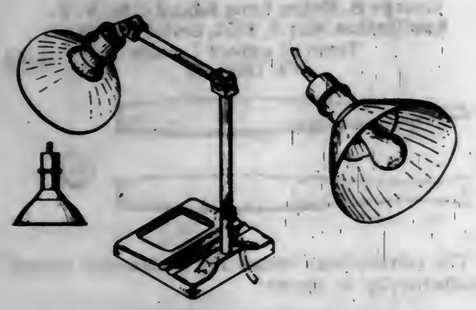
The ornamental design for a box for crayons or similar article, as shown.

170,222
DOLL
Maude P. Jones, Bremerton, Wash.
Application July 14, 1952, Serial No. 20,694
Term of patent 7 years
(Cl. D34—2)



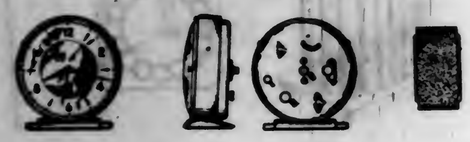
The ornamental design for a doll, as shown.

170,223
TABLE LAMP
Howard C. Lindemann, Great Neck, N. Y.
Application June 14, 1952, Serial No. 20,295
Term of patent 7 years
(Cl. D48—20)



The ornamental design for a table lamp, as shown.

170,224
CLOCK CASING
Frederick Lux, Middlebury, and Helmut D. Boerbaum, Wolcott, Conn., assignors to The Lux Clock Manufacturing Company, Inc., Waterbury, Conn., a corporation of Connecticut
Application July 19, 1952, Serial No. 20,638
Term of patent 14 years
(Cl. D42—7)



The ornamental design for a clock casing, substantially as shown.

170,225
CUPHOLDER ATTACHMENT
Kenneth H. MacKay, Ocala, Fla.
Application November 24, 1952, Serial No. 22,424
Term of patent 14 years
(Cl. D60—7)



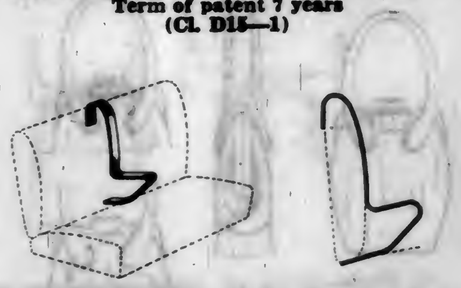
The ornamental design for a cupholder attachment, as shown and described.

170,226
DOLL
Pearl M. Mathews, St. Louis, Mo.
Application August 4, 1952, Serial No. 20,883
Term of patent 3½ years
(Cl. D34—4)



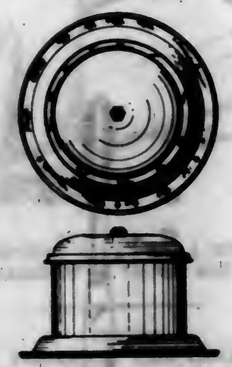
The ornamental design for a doll, substantially as shown and described.

170,227
ARMREST
John B. Mazzulla, Washington, D. C.
Application August 20, 1951, Serial No. 16,279
Term of patent 7 years
(Cl. D15—1)



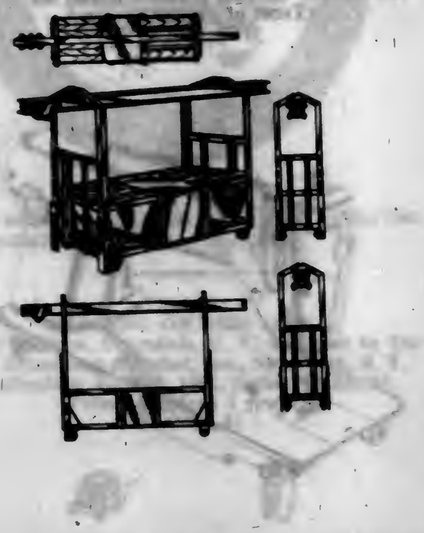
The ornamental design for an armrest, as shown and described.

170,228
WARNING LAMP FOR MOUNTING ATOP AN EMERGENCY VEHICLE
Julian A. McDermott, Corona, N. Y.
Application October 24, 1952, Serial No. 21,972
Term of patent 14 years
(Cl. D72—1)



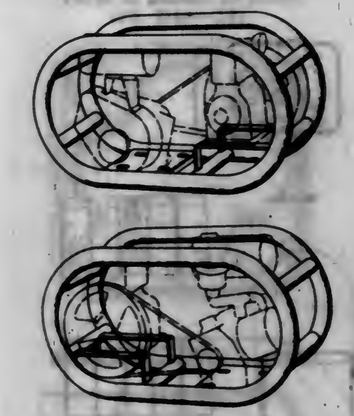
The ornamental design for a warning lamp for mounting atop an emergency vehicle, substantially as shown.

170,229
COMBINED WORKBENCH, CABINET, AND OVERHEAD TROLLEY SUPPORT
Howard Orion Miller, Chicago, Ill.
Application September 22, 1952, Serial No. 21,541
Term of patent 14 years
(Cl. D32—3)



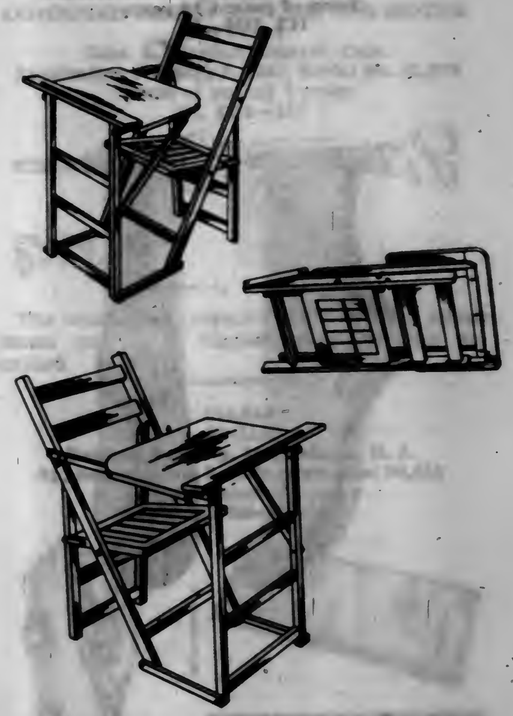
The ornamental design for a combined workbench, cabinet, and overhead trolley support, substantially as shown.

170,230
AIR COMPRESSOR UNIT
Leonidas C. Miller, Los Angeles, Calif.
Application May 23, 1952, Serial No. 19,940
Term of patent 14 years
(Cl. D65—1)



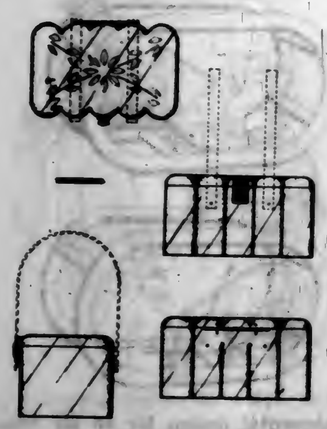
The ornamental design for an air compressor unit, as shown and described.

170,231
FOLDING DESK CHAIR
Roy C. Moore, Dallas, Tex.
Application June 30, 1952, Serial No. 20,410
Term of patent 14 years
(Cl. D32—11)



The ornamental design for a folding desk chair, substantially as shown.

170,223
HANDBAG
Frank Neglia, Old Tappan, N. J.
Application June 1, 1953, Serial No. 25,375
Term of patent 3½ years
(Cl. D67—3)



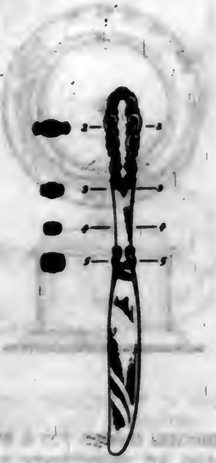
The ornamental design for a handbag, as shown and described.

170,224
STOCKING
Paul R. Nestler, Green Lane, Pa.
Application May 22, 1953, Serial No. 19,847
Term of patent 14 years
(Cl. D47—7)



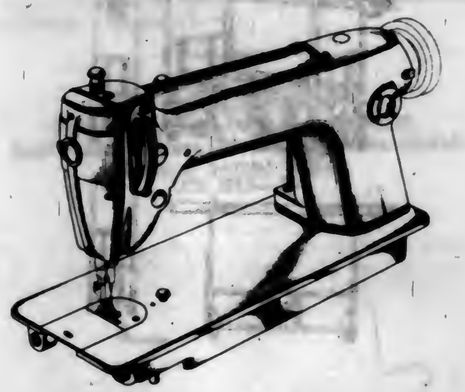
The ornamental design for a stocking, as shown.

170,224
KNIFE OR THE LIKE
Marion Anderson Noyes, West Newbury, Mass., assignee to Towle Manufacturing Company, Newburyport, Mass., a corporation of Massachusetts
Application October 7, 1953, Serial No. 21,745
Term of patent 14 years
(Cl. D22—3)

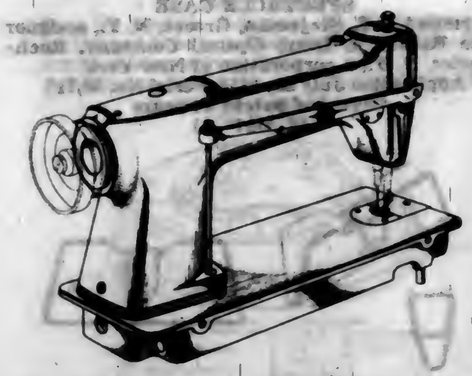


The ornamental design for a knife or the like, substantially as shown and described.

170,225
SEWING MACHINE FRAME
Malcolm S. Park, Mount Kisco, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application October 15, 1953, Serial No. 21,832
Term of patent 14 years
(Cl. D70—1)



170,225—Continued



The ornamental design for a sewing machine frame, substantially as shown and described.

170,226
PLATE OR THE LIKE
Gordon Parker, Alliance, and Beatrice L. Miller, Cleveland, Ohio, assignors to Royal China Inc., Sebring, Ohio, a corporation of Ohio
Application March 26, 1953, Serial No. 24,146
Term of patent 14 years
(Cl. D44—15)



The ornamental design for a plate or the like substantially as shown and described.

170,227
EARRING OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application April 27, 1953, Serial No. 24,634
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

170,228
SERVING TRAY
Walter H. Randall, Waterville, Maine, assignor to Keyes Fibre Company, Portland, Maine, a corporation of Maine
Application November 29, 1952, Serial No. 22,497
Term of patent 14 years
(Cl. D44—10)



The ornamental design for a serving tray, as shown.

170,229
COMBINED PISTON RESIZER AND MOTOR SUPPORT
John A. Rierdan, Denver, Colo.
Application January 2, 1953, Serial No. 23,979
Term of patent 7 years
(Cl. D54—13)



The ornamental design for a combined piston resizer and motor support, as shown and described.

170,240
STOLE
Roslyn W. Salny, Morristown, N. J.
Application July 2, 1952, Serial No. 20,453
Term of patent 14 years
(Cl. D3—3)



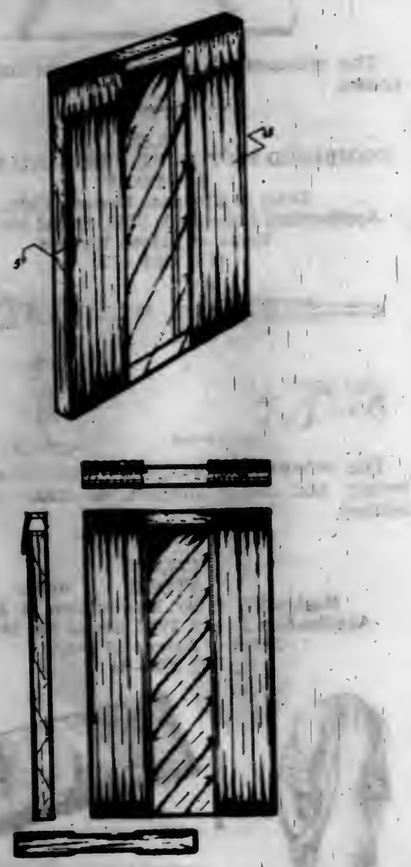
The ornamental design for a stole, as shown.

170,241
RING OR THE LIKE
Evaline L. Schenck, Columbus, Ohio
Application November 20, 1951, Serial No. 17,480
Term of patent 14 years
(Cl. D45—10)



The ornamental design for a ring or the like, substantially as shown and described.

170,242
VENETIAN BLIND COVER
Marion E. Skwark, Binghamton, N. Y.
Application October 3, 1951, Serial No. 16,814
Term of patent 14 years
(Cl. D21—6)



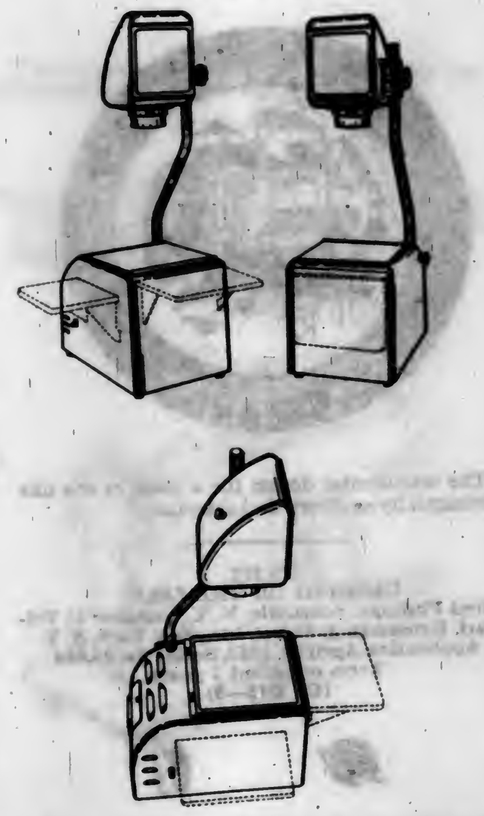
The ornamental design for a Venetian blind cover, substantially as shown and described.

170,243
SPECTACLE CASE
Raymond F. E. Stegeman, Greece, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application July 22, 1953, Serial No. 20,715
Term of patent 14 years
(Cl. D57—1)



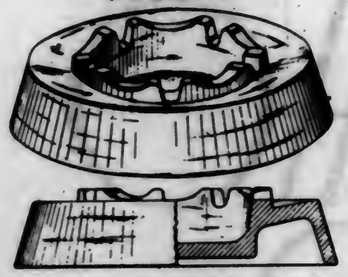
The ornamental design for a spectacle case, substantially as shown.

170,244
PROJECTION APPARATUS
James Y. Taylor, Garland, Tex.
Application August 2, 1951, Serial No. 16,114
Term of patent 14 years
(Cl. D61—1)



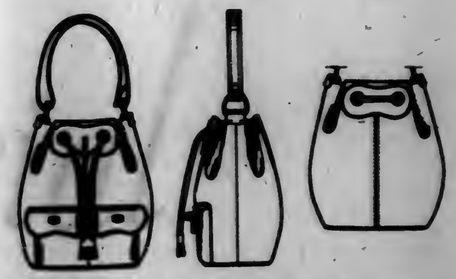
The ornamental design for a projection apparatus, substantially as shown and described.

170,245
ASH TRAY
James V. Vevirit, Kenmore, N. Y., assignor to McDonald Products Corporation, Buffalo, N. Y., a corporation of New York
Application March 29, 1952, Serial No. 19,111
Term of patent 14 years
(Cl. D65—3)



The ornamental design for an ash tray, as shown.

170,246
HANDBAG
Oscar Wolf, Trenton, N. J.
Application April 27, 1953, Serial No. 24,674
Term of patent 7 years
(Cl. D57—3)



The ornamental design for a handbag, substantially as shown and described.





September 8, 1953 Volume 674 Number 2

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

SINCLAIR WEEKS, *Secretary*

U. S. Patent Office

ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business August 21, 1953

Total number of patent applications awaiting action, 101,851. Date of oldest new application, October 29, 1952; date of oldest amended application, November 1, 1952.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) KEELY, J. E.			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	12-8-52	12-5-52	1348
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	11-22-52	11-25-52	1202
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	12-27-52	12-26-52	1062
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	12-2-52	12-2-52	1535
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	12-10-52	12-5-52	984
6. SURLE, H., Carbon Chemistry (part)	11-3-52	11-1-52	2767
7. GONSALVES, J. E., Optics; Photography (part)	12-8-52	12-6-52	1662
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	12-15-52	12-16-52	1572
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	12-1-52	12-2-52	1227
10. REYNOLDS, E. R. (NEFF, P. R., Acting); Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	1-2-53	12-29-52	1312
11. BENHAM, E. V., Boots, Shoes and Leggins; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	12-2-52	11-26-52	1141
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	11-27-52	11-27-52	1235
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	11-6-52	11-13-52	1275
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	12-17-52	12-10-52	1463
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	11-20-52	11-20-52	1666
16. LOVEWELL, N. N., Television; Telephony; Recorders	11-26-52	11-25-52	1749
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	12-4-52	12-2-52	1518
18. KURZ, J. A., Power Plants; Speed Responsive Devices	1-7-53	12-11-52	720
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	11-21-52	11-21-52	1171
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making, Banking Protection; Safes; Canopies, Umbrellas and Canes.	12-22-52	12-24-52	1262
21. MADER, R. C., Textiles	11-21-52	11-25-52	1421
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	12-10-52	12-10-52	1026
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	11-22-52	11-23-52	926
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing.	1-21-53	1-27-53	1069
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	11-21-52	11-20-52	1226
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	12-22-52	12-22-52	1923
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	12-8-52	12-6-52	1233
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	12-22-52	12-23-52	1150
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	11-14-52	11-17-52	1060
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	2-3-53	2-3-53	1334
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	11-19-52	11-20-52	2039
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	12-16-52	12-15-52	1255
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	11-20-52	11-26-52	1909
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	11-21-52	11-21-52	1233
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	1-19-53	1-15-53	1221
36. McFADYEN, A. D., Measuring and Testing	12-5-52	12-11-52	1705
37. LEVY, M. L., Electricity-Switches, Welding, Heating	12-30-52	12-29-52	1708
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	12-23-52	12-23-52	1536
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	1-27-53	1-22-53	1609
40. DRUMMOND, E. J., Receptacles (part); Packages	2-2-53	2-2-53	970
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	12-12-52	12-3-52	1668

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors.	11-21-52	11-21-52	2064
43. KNIGHT, W. G., (Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	11-18-52	11-18-52	1871
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	12-17-52	12-16-52	1360
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporisers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	11-22-52	11-24-52	1154
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	11-26-52	11-25-52	1632
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	11-15-52	11-13-52	2130
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	12-13-52	12-11-52	1415
50. BENGEL, W. G., Synthetic Resins; Rubber	2-16-53	2-13-53	1696
51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics.	12-16-52	12-12-52	1635
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	12-30-52	1-2-53	1914
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	12-15-52	12-29-52	1017
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	12-1-52	12-3-52	1842
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	12-16-52	12-17-52	1024
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	12-31-52	1-2-53	1325
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	12-26-52	12-10-52	1754
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittons.	11-24-52	11-25-52	1409
59. SHEPPARD, P. W., Inorganic Chemistry; Fertilisers; Gas, Heating and Illuminating	12-9-52	12-15-52	1366
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	1-8-53	1-8-53	985
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	12-29-52	12-29-52	1191
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	11-24-52	11-24-52	2001
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	12-1-52	12-1-52	1724
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43. (671 O. G. 316).			
66. LISANN, L., Geometrical Instruments; Automatic Weighers; Weighing Scales	12-31-52	12-24-52	802
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	12-31-52	1-2-53	1696
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	1-2-53	1-2-53	1476
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Illumination	12-3-52	12-3-52	1734
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	10-29-52	11-1-52	3509
DESIGNS: A—BREHM, G. L., Industrial Arts	4-15-53	4-17-53	1094
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	4-24-53	4-23-53	922

Number of new applications received week ending August 7, 1953

PATENTS 1,325 DESIGNS 138 REISSUES 7 TOTAL 1,470.

Total number of trade-mark applications awaiting action (including renewals and republications), 11,316.
Date of oldest new application, March 24, 1953; date of oldest amended application, March 25, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	3-27-53	3-26-53	2087
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	3-24-53	3-25-53	2768
Renewals (All Classes)	6-19-53	6-22-53	433
Republications (All Classes)	6-17-53	6-4-53	247
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	4-1-53	4-7-53	2469
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	4-7-53	4-2-53	2462

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abbott Laboratories, North Chicago, Ill. Medicinal preparation. Serial No. 627,236, Sept. 8. Class 18.

Agfa Camera Werk Munchen, Munich, Germany. Daylight developing tank. Serial No. 644,587, Sept. 8. Class 26.

Aktiebolaget Vibro-Verken, Stockholm, Sweden. Instruments for measuring the physical properties of fresh concrete, measuring instruments, etc. Serial No. 616,007, Sept. 8. Class 26.

American Cystoscope Makers, Inc., New York, N. Y. Nasopharyngoscopes and components thereof. Serial No. 632,343, Sept. 8. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Lithotrites and rongeurs. Serial No. 632,345, Sept. 8. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopes and components thereof. Serial No. 632,346, Sept. 8. Class 44.

American Machine and Metals, Inc., New York, N. Y., and Sellersville, Pa. Gauges, compasses, thermometers, etc. Serial No. 643,202, Sept. 8. Class 26.

Antell, Charles, Inc., Baltimore, Md. Soap. Serial No. 633,705, Sept. 8. Class 52.

Aro Equipment Corporation, The, Bryan, Ohio. Automotive and industrial lubricating equipment. Serial No. 644,532, Sept. 8. Class 13.

Associated Plastics Company, Inc., New York, N. Y. Ladies' handbags. Serial No. 644,156–7, Sept. 8. Class 3.

Bailey, Malcolm, Sr., Tampa, Fla. Mechanically operable attachment for internal combustion engine carburetors. Serial No. 639,309, Sept. 8. Class 26.

Barbara Jean's Beauty Sheer Hosiery, Inc., Penndel, Pa. Women's hosiery and undergarments. Serial No. 634,289, Sept. 8. Class 39.

Bartmann & Bixer, Inc., New York, N. Y. Window curtains. Serial No. 645,769, Sept. 8. Class 42.

Behr-Manning Corporation, Troy, N. Y. Flexible and inflexible abrasives. Serial No. 634,134, Sept. 8. Class 4.

Bell and Thorne, Inc., Newark, N. J. Germicide. Serial No. 629,717, Sept. 8. Class 18.

Boonton Molding Company, Boonton, N. J. Molded plastic forks and spoons. Serial No. 636,678, Sept. 8. Class 23.

Bourns Laboratories: *See*—
Bourns, Marlan E.

Bourns, Marlan E., doing business as Bourns Laboratories, Riverside, Calif. Potentiometers. Serial No. 639,205, Sept. 8. Class 26.

Bowser, Inc., Fort Wayne, Ind. Measuring and dispensing apparatus. Serial No. 618,911, Sept. 8. Class 26.

Brisson Brothers, assignor to Lo Da L. Inc., Norway, Mich. Loading attachment for automotive trucks. Serial No. 620,997, Sept. 8. Class 23.

Brown Electro-Measurement Corporation, Portland, Oreg. Decade potentiometers. Serial No. 642,460, Sept. 8. Class 26.

Brown Electro-Measurement Corporation, Portland, Oreg. Decade rheostats. Serial No. 642,461, Sept. 8. Class 26.

Brunsviga Maschinenwerke Aktiengesellschaft, Braunschweig, Germany. Calculating and adding machines and cash registers. Serial No. 643,284, Sept. 8. Class 26.

Burlington Mills Corporation, Greensboro, N. C. Fabrics. Serial No. 645,534, Sept. 8. Class 42.

Camera Specialty Co. Inc. New York, N. Y. Lenses and lense mounts. Serial No. 642,943, Sept. 8. Class 26.

Caponette, Simon L., doing business under the name House of Louis, Boston and North Andover, Mass. Hair pomade. Serial No. 624,730, Sept. 8. Class 51.

Carter, William, Company, The, Needham Heights, Mass. Women's and girls' pants. Serial No. 645,462, Sept. 8. Class 39.

Colwell Litho Products Inc., Minneapolis, Minn. Photographic exposure frames. Serial No. 644,224, Sept. 8. Class 26.

Congoleum-Nairn, Inc., Kearny, N. J. Linoleum, felt base, and similar flexible floor and wall coverings. Serial No. 633,196, Sept. 8. Class 20.

Converted Rice, Inc., Houston, Tex. Rice. Serial No. 636,773, Sept. 8. Class 46.

Convery, John, doing business as Television Corporation of America, Alameda, Calif., and Washington, D. C. Producing motion picture film. Serial No. 602,022, Sept. 8. Class 107.

Cover Lawn Seed Company: *See*—
Druid Hill Park Seed Corporation.

Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier Fils Aine et Cie), Paris, France. Cherry liqueur. Serial No. 617,711, Sept. 8. Class 49.

Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier Fils Aine et Cie), Paris, France. Apricot liqueur. Serial No. 617,712, Sept. 8. Class 49.

Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier Fils Aine et Cie), Paris, France. Liqueurs. Serial No. 617,714, Sept. 8. Class 49.

Dahl, George W., Company, Inc., Bristol, R. I. Globe valves, return valves, angle valves, etc. Serial No. 636,167, Sept. 8. Class 13.

Da-Lite Screen Company, Inc., Chicago, Ill. Motion picture screens. Serial No. 626,730, Sept. 8. Class 26.

Dan River Mills, Incorporated, Danville, Va. Textile fabrics. Serial No. 645,359, Sept. 8. Class 42.

Day-Brite Lighting, Inc., St. Louis, Mo. Fluorescent lighting fixtures and parts thereof. Serial No. 633,302, Sept. 8. Class 21.

Day's Tailor-D Clothing, Inc., Tacoma, Wash. Trousers and jackets. Serial No. 606,495, Sept. 8. Class 39.

Deering, Milliken & Co., Inc., New York, N. Y. Textile fabrics. Serial No. 646,114, Sept. 8. Class 42.

De Havilland Aircraft Company Limited, The, Hatfield, England. Airplanes and structural parts thereof. Serial No. 644,016–17, Sept. 8. Class 19.

De Jong Inc., Long Island City, N. Y. Window curtains, cafe curtains, and Dutch curtains. Serial No. 646,055, Sept. 8. Class 42.

Dictaphone Corporation, Bridgeport, Conn. Electrically-operated microphones and loudspeakers. Serial No. 635,124, Sept. 8. Class 21.

Doughboy Industries, Inc., New Richmond, Wis. Poultry feeds. Serial No. 607,421, Sept. 8. Class 46.

Druid Hill Park Seed Corporation, also doing business as Cover Lawn Seed Company, Baltimore, Md. Grass seeds. Serial No. 636,212–13, Sept. 8. Class 1.

Dudley Pictures Corporation, Beverly Hills, Calif. Series of motion picture photoplays. Serial No. 642,392, Sept. 8. Class 26.

Duplomat Corporation of America, Washington, D. C. Combined exposing and developing machine. Serial No. 642,740, Sept. 8. Class 26.

Duroloid Optical Company, Providence, R. I. Optical frames. Serial No. 634,892, Sept. 8. Class 26.

E. A. F. Research Developments: *See*—
Ferguson, Edgar A., Jr.

Economy Fuse and Manufacturing Co., Chicago, Ill. Electrical fuses. Serial No. 640,503, Sept. 8. Class 21.

Edwards-Freeman, Inc., Philadelphia, Pa. Dried fruits and evaporated fruits. Serial No. 640,925, Sept. 8. Class 46.

Electro Manufacturing Corporation, Chicago, Ill. Fluorescent lighting units. Serial No. 629,727, Sept. 8. Class 21.

Elsé Inc., Cincinnati, Ohio. Dress patterns. Serial No. 637,119, Sept. 8. Class 26.

Fawick Airflex Company, Inc., The, Cleveland, Ohio, assignor to Federal Fawick Corporation. Rotary fluid-couplings for use with machinery. Serial No. 625,065, Sept. 8. Class 23.

Federal Fawick Corporation, assignee: *See*—
Fawick Airflex Company, Inc., The.

Ferguson, Edgar A., Jr., doing business as E. A. F. Research Developments, Brooklyn, N. Y. Medicated ointments and soaps. Serial No. 633,723, Sept. 8. Class 18.

Ferguson, Edgar A., Jr., Brooklyn, N. Y. Appetite satient compositions. Serial No. 638,795, Sept. 8. Class 18.

Ferro Corporation, The, Cleveland, Ohio. Glass fiber matted sheet materials. Serial No. 643,415, Sept. 8. Class 1.

Fischl, Louis, Glove Co. Ltd., Prescott, Ontario, Canada. Leather and fabric gloves. Serial No. 635,826, Sept. 8. Class 39.

Fisher Flouring Mills Company, Seattle, Wash. Livestock feeds. Serial No. 631,793, Sept. 8. Class 46.

Flotill Products, Incorporated, Stockton, Calif. Canned fruits and canned vegetables. Serial No. 644,228, Sept. 8. Class 46.

Franklin Ice Cream Company The, Cleveland, Ohio. Candy. Serial No. 648,097, Sept. 8. Class 46.

Freeman, Edwin M.: *See*—
Freeman, Mildred A.

Freeman, Mildred A., Denver, Colo., executrix of the estate of E. M. Freeman, deceased. Automobile cleaner, polish, and finish. Serial No. 540,402, Sept. 8. Class 4.

Freightliner Corporation, Portland, Oreg. Truck trailers and motor trucks. Serial No. 613,366, Sept. 8. Class 19.

Fruit Growers Express Company, Washington, D. C. House magazine. Serial No. 645,240, Sept. 8. Class 38.

General Motors Corporation, Detroit, Mich. Electric lamps and switches. 628,937, Sept. 8. Class 21.

Godfrey, G. R., Company, Gardner, Mass. Pocketbooks, purses, and wallets. Serial No. 643,902, Sept. 8. Class 3.

Good Luck Glove Company, Carbondale, Ill. Fabric work gloves. Serial No. 635,132, Sept. 8. Class 39.

Graphic Publishing Co., Inc., Hasbrouck Heights, N. J. Books. Serial No. 645,242, Sept. 8. Class 38.
Gray Manufacturing Company, The, Hartford, Conn. Record resurfacing machines. Serial No. 605,158, Sept. 8. Class 23.
Great Western Sugar Company, The, Denver, Colo. Sugar. Serial No. 645,481, Sept. 8. Class 46.
Griffin Baking Company: *See*— Griffin, Howard L.
Griffin, Howard L., doing business under the trade name of Griffin Baking Company, Greensboro, N. C. Baked and fried pies. Serial Nos. 646,711–12, Sept. 8. Class 46.
Halo-Star Corporation, Oak Park, Ill. Personal photographs. Serial No. 581,260, Sept. 8. Class 38.
Halter's Pretzels, Inc., Canton, Ohio. Pretzels and pretzel sticks. Serial No. 629,944, Sept. 8. Class 46.
Hancock, Henry, trading as Rieger Organs, New York, N. Y. Reed and pipe organs. Serial No. 639,755, Sept. 8. Class 36.
Harlis, Incorporated, Miami, Fla. Books. Serial No. 637,126, Sept. 8. Class 38.
Heatilator, Inc., Syracuse, N. Y. Sheet metal basement entrance units. Serial No. 635,650, Sept. 8. Class 12.
Hechinger Company, The: *See*— Hechinger, Sidney L.
Hechinger, Sidney L., trading as The Hechinger Company, Washington, D. C. Door and garage door hardware other than locks; cabinet, chest and cupboard hardware, etc. Serial No. 633,960, Sept. 8. Class 13.
Hellige, Inc., Long Island City, N. Y. Photoelectric colorimeter and density comparison and measuring instrument. Serial No. 613,989, Sept. 8. Class 26.
Hellige, Inc., Long Island City, N. Y. Photoelectric color and density measuring instrument. Serial No. 613,990, Sept. 8. Class 26.
Helms Bakeries, Los Angeles, Calif. Publication. Serial No. 641,297, Sept. 8. Class 38.
Herrmann Handkerchief Company, Inc., The, New York, N. Y. Handkerchiefs. Serial No. 641,138, Sept. 8. Class 39.
Hohner, M., Inc., New York, N. Y. Harmonicas. Serial No. 638,852, Sept. 8. Class 36.
House of Louis: *See*— Caponette, Simon L.
Howell, William R., assignee: *See*— Ranger Ice Cream Company.
Hudson, H. D., Manufacturing Company, Chicago, Ill. Thermostat wafers and valves and thermometers. Serial No. 642,647, Sept. 8. Class 26.
Hygiene Research, Inc., New York, N. Y. Chemically treated polishing cloths. Serial No. 645,417, Sept. 8. Class 29.
Ilford, Limited, Ilford, Essex, England. Sensitized films and plates for use in photography. Serial No. 642,653, Sept. 8. Class 26.
Illinois Clay Products Company, Joliet, Ill. Molded refractories. Serial No. 588,301, Sept. 8. Class 12.
Illinois Testing Laboratories, Inc., Chicago, Ill. Electrical temperature measuring instruments and parts thereof. Serial No. 620,541, Sept. 8. Class 26.
Illinois Testing Laboratories, Inc., Chicago, Ill. Electrical temperature measuring instruments and parts thereof. Serial No. 620,543, Sept. 8. Class 26.
Illinois Testing Laboratories, Inc., Chicago, Ill. Flow meters. Serial No. 620,544, Sept. 8. Class 26.
Imperial Chemical Industries Limited, London, England. Water purity and hardness testing apparatus, flow-meters, lenses, etc. Serial No. 594,790, Sept. 8. Class 26.
Innis, Speiden & Co., Inc., New York, N. Y., assignee of International Minerals & Chemical Corporation. Algin. Serial Nos. 637,590–1, Sept. 8. Class 6.
Innis, Speiden & Co., Inc., New York, N. Y., assignee of International Minerals & Chemical Corporation. Lanolin, beeswax, candelilla wax, etc. Serial Nos. 637,592–3, Sept. 8. Class 6.
Inter-Coastal Paint Corporation, East St. Louis, Ill. Ready-mixed paints, varnishes, paint enamels, etc. Serial No. 640,279, Sept. 8. Class 16.
International Minerals & Chemical Corporation: *See*— Innis, Speiden & Co., Inc.
Jackson and Church Company, Saginaw, Mich. Face bricks. Serial No. 632,250, Sept. 8. Class 12.
Kayco: *See*— Kayser, Edwin E.
Kayser, Edwin E., doing business as Kayco, Santa Barbara, Calif. Organic laxative. Serial No. 643,103, Sept. 8. Class 18.
Kotkins, Henry L., doing business as Skyway Luggage Company, Seattle, Wash. Men's and women's hand luggage. Serial No. 644,325, Sept. 8. Class 3.
Kress, S. H., and Company, New York, N. Y. Cotton piece goods. Serial No. 646,034, Sept. 8. Class 42.
Labatt, John, Limited, London, Ontario, Canada. Lager beer. Serial No. 571,647, Sept. 8. Class 48.
Lettuce, Incorporated, Salinas, Calif. Fresh lettuce. Serial No. 634,984, Sept. 8. Class 46.
Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. Serial No. 642,957–8, Sept. 8. Class 18.
Limestone Products Corporation of America, Newton, N. J. Finely granulated calcite limestone. Serial No. 641,851, Sept. 8. Class 1.
Lo Da L, Inc., assignee: *See*— Brisson Brothers.
London, J., & Co., Philadelphia, Pa. Window curtains and draperies. Serial No. 619,206, Sept. 8. Class 42.
Lowell Covered Rubber Thread Co., Inc., Lowell, Mass. Elastic thread. Serial No. 646,072, Sept. 8. Class 43.
Lustberg, Nast & Co., Inc., New York, N. Y. Men's and boys' finger-tip coats. Serial No. 643,768, Sept. 8. Class 39.
Luthy, F. A., Co., Jackson, Mich. Spark plugs. Serial No. 632,844, Sept. 8. Class 21.
Massengill, S. E., Company, The, Bristol, Tenn. Injectable veterinary preparation. Serial No. 626,684, Sept. 8. Class 18.
Mathieson Chemical Corporation, assignee: *See*— Squibb, E. R., & Sons.
Mathieson Chemical Corporation, Saltville, Va. Antibiotic preparation. Serial No. 637,715, Sept. 8. Class 18.
Mayhaw Canning Company, Inc., Laurel, Miss. Canned fruits, canned vegetables, and canned shrimp. Serial No. 563,943, Sept. 8. Class 46.
Menihan, Jeremiah G., Rochester, N. Y. Women's shoes. Serial No. 628,951, Sept. 8. Class 39.
Merck & Co., Inc.: *See*— Sharp & Dohme Incorporated.
Metallurgical Laboratories, Inc., Wyndmoor, Pa. Heat treating metals and metal alloys. Serial No. 634,540, Sept. 8. Class 106.
Miller Manufacturing Co., Inc., St. Paul, Minn. Automatic poultry fountains. Serial No. 631,560, Sept. 8. Class 13.
Minnesota Mining and Manufacturing Company, St. Paul, Minn. Adherent coating compound useful for application to electrical wires, cable splices, etc. Serial No. 636,857, Sept. 8. Class 21.
Mission Manufacturing Company, Houston, Tex. Centrifugal pumps and parts thereof and for reciprocating pumps and parts thereof. Serial Nos. 616,828–9, Sept. 8. Class 23.
Mission Manufacturing Company, Houston, Tex. Centrifugal pumps and parts thereof and for reciprocating pumps and parts thereof. Serial No. 618,935, Sept. 8. Class 23.
Morris, Philip, & Co. Ltd. Incorporated, New York, N. Y. Cigarettes. Serial No. 643,043, Sept. 8. Class 17.
Napasco Chemical Co.: *See*— National Paper & Specialty Co. Inc.
National Paper & Specialty Co. Inc., doing business as Napasco Chemical Co., Thibodaux, La. Pine oil disinfectant, isopropyl alcohol compound, and mint oil disinfectant. Serial No. 641,201, Sept. 8. Class 6.
National Tricot Company, Hawthorne, N. J. Piece goods. Serial No. 645,657, Sept. 8. Class 42.
Niagara Blower Company, Buffalo, N. Y. Inter and after coolers for air or gas compressors, engine jacket water coolers, dehumidifiers, etc. Serial No. 545,518, Sept. 8. Class 34.
Nordby, Roger. M., Evanston, Ill. Radios. Serial No. 643,356, Sept. 8. Class 21.
Northwest Publications, Inc., St. Paul, Minn. Publication. Serial No. 645,214, Sept. 8. Class 38.
Ohio Ferro-Alloys Corporation, Canton, Ohio. Ferro-alloys. Serial No. 629,812, Sept. 8. Class 14.
Orchard Products Company, Chicago, Ill. Fruit preserves. Serial No. 589,466, Sept. 8. Class 46.
Overland, Fred M., doing business as Overland Import Company, Los Angeles, Calif. Combination hand tool. Serial No. 640,946, Sept. 8. Class 23.
Overland Import Company: *See*— Overland, Fred M.
Palamidessi, Emilio.: *See*— Rectaflex Societa Per Azioni.
Patten, Lee, Seed Company, Jersey City, N. J. Lawn seed mixture. Serial Nos. 639,576–7, Sept. 8. Class 1.
Patten, Lee, Seed Company, Jersey City, N. J. Lawn seed mixture. Serial Nos. 639,579–80, Sept. 8. Class 1.
Peck & Peck, New York, N. Y. Handbags and wallets. Serial No. 643,362, Sept. 8. Class 3.
Pennsylvania Salt Manufacturing Co., The, Philadelphia, Pa. Metal cleaner and descaler. Serial No. 625,028, Sept. 8. Class 52.
Perrish Steel Products, Inc., Los Angeles, Calif. Milling machines. Serial No. 644,449, Sept. 8. Class 23.
Petpak Products Company, Milwaukee, Wis. Bird feed. Serial No. 642,837, Sept. 8. Class 46.
Philbrick, George A., Researches, Inc., Boston, Mass. Measuring and analyzing apparatus. Serial No. 616,335, Sept. 8. Class 26.
Precision-Cosmet Company, Inc., Minneapolis, Minn. Lenses, eyeglasses, spectacles, etc. Serial No. 612,085, Sept. 8. Class 26.
Precision International, Inc., New York, N. Y. Drawing instruments and drawing articles. Serial No. 626,700, Sept. 8. Class 26.
Preiswerck, K. J., Ltd., Vancouver, British Columbia, Canada. Sweetened coconut. Serial No. 648,043, Sept. 8. Class 46.
Quincy Stove Manufacturing Company, The, Quincy, Ill. Portable electric ranges, electric range units and parts thereof, etc. Serial No. 641,572, Sept. 8. Class 21.
Radiant Manufacturing Corporation, Chicago, Ill. Light projection picture screen locking mechanism. Serial No. 638,662, Sept. 8. Class 26.

Ralston Purina Company, St. Louis, Mo. Poultry and stock feed. Serial No. 552,707, Sept. 8. Class 46.
Ranger Ice Cream Company, Washington, D. C., assignor to William R. Howell, Arlington, Va. Frozen coated ice cream bars. Serial No. 596,751, Sept. 8. Class 46.
Rectaflex Societa Per Azioni, Rome, Italy, assignee, by mesne assignments, from Telemaco Corsi and Emilio Palamidessi. Cameras and camera parts and attachments. Serial No. 598,835, Sept. 8. Class 26.
Reeve, V. J., & Son, Tracy, Calif. Automatic or continuous milking machines and parts thereof. Serial No. 618,940, Sept. 8. Class 23.
Rieger Organs: *See*— Hancock, Henry.
Rogers, Mary P., Hilo, Hawaii. Gardenia plants. Serial No. 643,375, Sept. 8. Class 1.
Rosenblatt, Albert, & Sons, Inc., New York, N. Y. Women's and misses' dresses. Serial No. 640,228, Sept. 8. Class 39.
Rubinstein, Helena, Inc., New York, N. Y. Eye-glass cases and eye-glass holders. Serial No. 642,841, Sept. 8. Class 26.
S. I. C. M. U. Società Italiana Commercio Macchine Per Ufficio S. P. A., Milan, Italy. Adding machines, calculating machines, accounting machines. Serial No. 643,119, Sept. 8. Class 26.
Schenley Laboratories, Inc., New York, N. Y. Cortisone acetate compound. Serial No. 644,068, Sept. 8. Class 18.
Schwitser-Cummins Company, Indianapolis, Ind. Thermostatically controlled disengageable cooling fan drives. Serial No. 633,683, Sept. 8. Class 26.
Scientific Electric: *See*— Sedlacsik, John J.
Scopicon, Inc., New York, N. Y. Microscope lamps and auxiliary devices. Serial No. 633,080, Sept. 8. Class 26.
Sears, Roebuck and Co., Chicago, Ill. Cologne, shave lotion, talcum powder, etc. Serial No. 622,033, Sept. 8. Class 51.
Sedlacsik, John J., trading as Scientific Electric, Garfield, N. J. Pneumatic sprayers. Serial No. 639,145, Sept. 8. Class 23.
Shallcross Manufacturing Company, Collingdale, Pa. Electrical measuring and test instruments. Serial No. 628,305, Sept. 8. Class 26.
Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc. Losenge or troche, particularly an antibiotic. Serial No. 639,664, Sept. 8. Class 18.
Sharpe Manufacturing Company, Inc., Minneapolis, Minn. Sports and play garments. Serial No. 627,096, Sept. 8. Class 39.
Shaw-Nelson Co., Chicago, Ill. Timers of the hour-glass type. Serial No. 581,739, Sept. 8. Class 26.
Shriver, B. F., Company, The, Westminster, Md. Canned vegetables, canned tomato juice, and green tomato pickle. Serial No. 541,592, Sept. 8. Class 46.
Siemens-Schuckertwerke Aktiengesellschaft, Erlangen and Berlin-Siemensstadt, Germany, and elsewhere. Electrical machines, electro-technical instruments and appliances, etc. Serial No. 643,728, Sept. 8. Class 21.
Skirtmasters, Inc., New York, N. Y. Women's and children's skirts, slacks, and outer shorts. Serial No. 635,437, Sept. 8. Class 39.
Skyway Luggage Company: *See*— Kotkins, Henry L.
Smith, F., & Co (Whitworth) Limited, Rochdale, England. Electrical driving units. Serial No. 641,213, Sept. 8. Class 21.
Società Per Azioni G. B. Pezziol, Padova, Italy. Egg punch using brandy as a base. Serial No. 613,530, Sept. 8. Class 49.
Societa Veneziana Conterie e Cristallerie, Murano (Venice) Italy. Beads for jewelry, necklaces, bracelets, etc. Serial No. 625,696, Sept. 8. Class 40.
Southern Chemical Foundation, Inc., Dallas, Tex. Vitamin pills. Serial No. 643,122, Sept. 8. Class 18.
Southern Milling Company, Augusta, Ga. Cattle feed. Serial No. 644,461, Sept. 8. Class 46.
Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Preparation for producing analgesia. Serial No. 626,911, Sept. 8. Class 18.
Standard Brands Incorporated, New York, N. Y. Margarine. Serial No. 648,335, Sept. 8. Class 46.
Stokes Molded Products, Inc., Trenton, N. J. Measuring dippers and water meter parts. Serial No. 591,643, Sept. 8. Class 26.
Technicolor Motion Picture Corporation, Hollywood, Calif. Serial No. 643,123, Sept. 8. Class 26.
Technicolor Motion Picture Corporation, Hollywood, Calif. Motion picture film. Serial No. 644,467, Sept. 8. Class 26.
Telemaco Corsi: *See*— Rectaflex Societa Per Azioni.
Television Corporation of America: *See*— Convery, John.
Tennison Brothers, Incorporated, Memphis, Tenn., and Texarkana, Ark. Sheet metal strips. Serial No. 637,092, Sept. 8. Class 12.
Texas Harvest Hat Company, Laredo, Tex. Men's, ladies' and children's hats. Serial Nos. 631,447–8, Sept. 8. Class 39.
Texas Harvest Hat Company, Laredo, Tex. Men's, ladies', and children's hats. Serial No. 638,329, Sept. 8. Class 39.
Timber Engineering Company, Washington, D. C. Metal grooving tools. Serial No. 635,006, Sept. 8. Class 23.
Titmus Optical Company, Inc., Petersburg, Va. Ophthalmic lenses and sunglasses. Serial No. 643,126, Sept. 8. Class 26.
Trailmobile Inc., Cincinnati, Ohio. Repair and maintenance of cargo trailers. Serial No. 643,253, Sept. 8. Class 103.
United Elastic Corporation, Easthampton, Mass. Narrow elastic webbing. Serial No. 633,803, Sept. 8. Class 42.
United States Safety Service Co., Kansas City, Mo. Goggles and face shields. Serial No. 634,767, Sept. 8. Class 26.
U. S. Stationery Co., New York, N. Y. Office filing cabinets. Serial No. 643,867, Sept. 8. Class 32.
United States Steel Company, Pittsburgh, Pa., now by merger, United States Steel Corporation. Metal reel-like containers. Serial No. 632,962, Sept. 8. Class 2.
United States Steel Company, Pittsburgh, Pa., now by merger, United States Steel Corporation. Flat band steel strapping dispensing units. Serial No. 633,023, Sept. 8. Class 23.
United States Steel Corporation: *See*— United States Steel Company.
Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. Serial No. 640,480, Sept. 8. Class 18.
Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. Serial No. 640,484, Sept. 8. Class 18.
Wade, Wenger & Associates, Inc., Chicago, Ill. Cleaning compound. Serial No. 628,794, Sept. 8. Class 52.
Wade, Wenger, & Associates, Inc., Chicago, Ill. Cleaning compounds. Serial No. 628,798, Sept. 8. Class 52.
Waite Carpet Company, Oshkosh, Wis. Textile rugs and carpets. Serial No. 640,182, Sept. 8. Class 42.
Waite Carpet Company, Oshkosh, Wis. Textile rugs and carpets. Serial No. 643,521, Sept. 8. Class 42.
Wallach's, Inc., New York, N. Y., and elsewhere. Toiletries. Serial No. 637,469, Sept. 8. Class 51.
Wamsutta Mills, New Bedford, Mass. Piece goods. Serial No. 645,685, Sept. 8. Class 42.
Wass Food Products Company, Chicago, Ill. Food preparation. Serial No. 645,750, Sept. 8. Class 46.
Weco Products Company, Chicago, Ill. Powder puffs. Serial No. 631,332, Sept. 8. Class 29.
Westcott Rule Company, Inc., Seneca Falls, N. Y. Rulers. Serial No. 626,184, Sept. 8. Class 26.
Whittaker, Wm. R., Co. Ltd., Los Angeles, Calif. Control valves. Serial No. 633,131, Sept. 8. Class 13.
Wickes Corporation, The, Saginaw, Mich. Graphite. Serial No. 623,222, Sept. 8. Class 1.
Wile, Julius, Sons and Co., Inc., New York, N. Y. Pink wine. Serial No. 641,702, Sept. 8. Class 47.
Winter Garden Citrus Products Cooperative, Winter Garden, Fla. Canned citrus juices. Serial Nos. 633,899–900, Sept. 8. Class 46.
Wolch Nut & Candy Co., Chicago, Ill. Candy. Serial No. 646,249, Sept. 8. Class 46.
Youle, Clint, Wheaton, Ill. Weather thermometers. Serial No. 623,929, Sept. 8. Class 26.
Zenith Radio Corporation, Chicago, Ill. Radio and television transmitting and receiving apparatus and parts thereof. Serial No. 629,135, Sept. 8. Class 21.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Sedative and hypnotic. 579,800. Sept. 8; Serial No. 639,358, published May 26, 1953. Class 18.
Abbott Laboratories, North Chicago, Ill. Medicinal preparation. 579,801, Sept. 8; Serial No. 639,359, published June 9, 1953. Class 18.
Acme Limestone Company, Fort Spring, W. Va. Finely ground high calcium limestone. 579,875, Sept. 8; Serial No. 621,851. Class 1.
Aeolian Company, The: *See*— Aeolian Organ and Music Company, The.
Aeolian Company, The, New York, N. Y. Pianos and automatic players therefor. 112,461, Sept. 12, 1916. Republished Sept. 8. Class 36.
Aeolian Organ and Music Company, The, Meriden, Conn., and New York, N. Y., by The Aeolian Company, New York, N. Y. Pianos. 24,728, May 15, 1894. Republished Sept. 8. Class 36.
Air Reduction Company, Incorporated, New York, N. Y. Surgical operating tables. 579,642, Sept. 8; Serial No. 627,163, published June 2, 1953. Class 44.

Aktieselskabet Aluminia, to Aktieselskabet Fajancefabriken Aluminia, Copenhagen, Denmark. Delftware and chinaware of all kinds. 40,572, re-renewed June 9, 1953. O. G. Sept. 8. Class 30.

Aktieselskabet Fajancefabriken Aluminia: *See*—
Aktieselskabet Aluminia.

Alan Record Co., Inc., Boston, Mass. Grooved phonograph records. 579,755, Sept. 8; Serial No. 636,401, published June 16, 1953. Class 36.

Alaska Pacific Salmon Company: *See*—
Sanborn, Geo. W., & Son.

Aloe, A. S., Company, St. Louis, Mo. X-ray machines. 579,617, Sept. 8; Serial No. 624,769, published June 2, 1953. Class 44.

American Agricultural Chemical Company, The, New York, N. Y. Phosphorus; compositions containing phosphorus. 579,537, Sept. 8; Serial No. 599,210, published June 23, 1953. Class 6.

American Agricultural Chemical Company, The, New York, N. Y. Phosphorus; compositions containing phosphorus. 579,538, Sept. 8; Serial No. 599,212, published June 23, 1953. Class 6.

American Art Clay Company, Indianapolis, Ind. Modeling clay, clay flour, moist clay, etc. 579,564, Sept. 8; Serial No. 610,253, published June 2, 1953. Class 1.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. 579,656–62, Sept. 8; Serial Nos. 628,892–8, published June 23, 1953. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. 579,663–4, Sept. 8; Serial Nos. 628,900–1, published June 23, 1953. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. 579,665, Sept. 8; Serial No. 628,903, published June 23, 1953. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Ureteral forceps. 579,816, Sept. 8; Serial No. 640,372, published June 23, 1953. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Ureteral stone removing forceps. 579,817, Sept. 8; Serial No. 640,373, published June 23, 1953. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. 579,818, Sept. 8; Serial No. 640,375, published June 23, 1953. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Biopsy punches and components thereof, and surgical electrodes. 579,819, Sept. 8; Serial No. 640,376, published June 23, 1953. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Surgical electrode units. 579,820, Sept. 8; Serial No. 640,377, published June 23, 1953. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Surgical electrodes. 579,821–2, Sept. 8; Serial Nos. 640,378–9, published June 23, 1953. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. 579,823–5, Sept. 8; Serial Nos. 640,380–2, published June 23, 1953. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Bladder evacuators. 579,826, Sept. 8; Serial No. 640,383, published June 23, 1953. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. 579,827–8, Sept. 8; Serial Nos. 640,384–5, published June 23, 1953. Class 44.

American Gem Society, Los Angeles, Calif. Repairing jewelry and mounting precious stones and gems in settings. 579,850, Sept. 8; Serial No. 547,960, published June 16, 1953. Class 103.

American Machine and Metals, Inc., New York, N. Y. Wall ventilating fans, stock barn fans, poultry house fans, etc. 579,883, Sept. 8; Serial No. 635,514. Class 34.

American Metallic Chemicals Corp., New York, N. Y., and Portland, Oreg. Manganese dioxide. 579,750, Sept. 8; Serial No. 635,734, published June 16, 1953. Class 6.

American Mineral Spirits Company, Chicago, Ill. Solvent naphtha for dry cleaning, paint solvent and metal cleaning. 579,588, Sept. 8; Serial No. 620,485, published May 19, 1953. Class 52.

American Muffler Co.: *See*—
Karpoff, Alex D.

American Oil Company, Baltimore, Md. Gasoline. 579,567, Sept. 8; Serial No. 613,663, published June 2, 1953. Class 15.

American Porcelain Tooth Company Ltd., Nahlat Itshak, near Tel-Aviv, Israel. Artificial teeth. 579,710, Sept. 8; Serial No. 633,293, published June 2, 1953. Class 44.

American Sheet and Tin Plate Company, to United States Steel Corporation, Pittsburgh, Pa. Sheets and plates—namely, tin and terne plates. 306,323, renewed Sept. 12, 1953. O. G. Sept. 8. Class 14.

American White Cross Laboratories, Inc., The, New Rochelle, N. Y. Surgical dressings, adhesive plasters, adhesive bandage, etc. 579,566, Sept. 8; Serial No. 613,316, published June 16, 1953. Class 44.

Apex Tire & Rubber Co., Pawtucket, R. I. Plastic garden hose. 579,833, Sept. 8; Serial No. 640,664, published June 9, 1953. Class 35.

Apex (Trinidad) Oilfields, Limited, London, England. Fluid control valves. 579,745, Sept. 8; Serial No. 635,572, published June 9, 1953. Class 13.

Apple Growers Association, Hood River, Oreg. Canned fruit. 304,232, renewed June 27, 1953. O. G. Sept. 8. Class 46.

Arden, Elisabeth, Sales Corporation, New York, N. Y. Sun lotion. 579,705, Sept. 8; Serial No. 632,912, published June 9, 1953. Class 51.

Atkins & Durbrow, Inc., New York, N. Y. Fertilizers. 575,319, June 2, 1953. Amended. O. G. Sept. 8. Class 10.

Armstrong Rubber Company, The, West Haven, Conn. Pneumatic tires, inner tubes and repair and treading materials therefor. 579,717, Sept. 8; Serial No. 633,748, published June 9, 1953. Class 35.

Atlanta Boat Works: *See*—
Turner, Claude H.

B-Z-B Knitting Co., to B. Z. Boehmen, doing business as Manikin Hosiery Co., Rockford, Ill. Hosiery. 301,515, renewed Mar. 7, 1953. O. G. Sept. 8. Class 39.

Ball Chemical Company, Pittsburgh, Pa. Preparations for removing paint and other coatings from metal and other surfaces. 91,451, May 6, 1913. Republished Sept. 8. Class 52.

Bandy, Keith K., doing business as Keith Laboratory, Cincinnati, Ohio. Preparation for external application. 579,734, Sept. 8; Serial No. 634,726, published June 9, 1953. Class 18.

Bareco Oil Company, Tulsa, Okla. Microcrystalline wax. 579,618, Sept. 8; Serial No. 624,774, published June 23, 1953. Class 6.

Barlow-Maney Laboratories, Cedar Rapids, Iowa. Preparation used in the treatment of high blood pressure. 579,580, Sept. 8; Serial No. 618,478, published June 9, 1953. Class 18.

Bartelle, Raymond O., doing business as The Veldent Company, Los Gatos, Calif. Liner for artificial dentures. 579,712, Sept. 8; Serial No. 633,603, published June 23, 1953. Class 44.

Barton Manufacturing Company, St. Louis, Mo. Polish. 579,587, Sept. 8; Serial No. 620,295, published May 12, 1953. Class 4.

Bates, R. W., Piece Dye Works, Inc., Garnerville, N. Y. Treating rayon and acetate suiting fabrics. 579,857, Sept. 8; Serial No. 637,607, published June 16, 1953. Class 106.

Baxter Laboratories, Inc., Morton Grove, Ill. Normal saline solution. 579,694, Sept. 8; Serial No. 631,532, published Apr. 14, 1953. Class 18.

Beaton, J. R., Company, Inc., New York, N. Y. Women's full-fashioned hosiery. 579,632, Sept. 8; Serial No. 626,298, published June 9, 1953. Class 39.

Bee-Line Company: *See*—
Bee Line Manufacturing Company.

Bee Line Manufacturing Company, to Bee-Line Company, Davenport, Iowa. Automobile frame straighteners, lifting jacks, and axle and wheel straightening presses. 303,943, renewed June 13, 1953. O. G. Sept. 8. Class 23.

Belcano Company, Jersey City, N. J. Perfumes. 579,546, Sept. 8; Serial No. 602,741, published June 2, 1953. Class 51.

Bell & Gossett Company, Morton Grove, Ill. Water heater. 579,863, Sept. 8; Serial No. 569,594. Class 34.

Bendix Aviation Corporation, Detroit, Mich., and Teterboro, N. J. Electron tubes and for thermal time delay tubes. 579,554, Sept. 8; Serial No. 608,298, published June 23, 1953. Class 21.

Bennett, F. H., Biscuit Company, to National Biscuit Company, New York, N. Y. Wheat-flour, biscuit and crackers, cereal breakfast foods, etc. 93,417, re-renewed Sept. 16, 1953. O. G. Sept. 8. Class 46.

Best & Co. Inc., New York, N. Y. Toys, games, and sporting goods. 306,339, renewed Sept. 19, 1953. O. G. Sept. 8. Class 22.

Bishop, Howard B., doing business under the name Humanic Brands, Summit, N. J. High protein food supplement. 579,720, Sept. 8; Serial No. 633,967, published May 19, 1953. Class 18.

Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet sweepers and parts thereof. 305,183, renewed Aug. 8, 1953. O. G. Sept. 8. Class 23.

Black, Joseph, & Sons Company, York, Pa. Men's and boys' stockings. 579,731, Sept. 8; Serial No. 634,448, published June 9, 1953. Class 39.

Boehmen, Robert Z.: *See*—
B-Z-B Knitting Co.

Botany Mills, Inc.: *See*—
Jones, R. A., & Co.

Braithwaite & Co. Engineers Limited, Great Bookham, Surrey, England. Concrete articles. 579,604, Sept. 8; Serial No. 623,123, published Apr. 7, 1953. Class 12.

Brewster, Gordon, & Co., Rochester, N. Y. Coffee, tea, molasses, etc. 101,560, Dec. 29, 1914. Amended. O. G. Sept. 8. Class 46.

Bristol Laboratories Inc., New York and Syracuse, N. Y. Hypodermic syringe. 579,670, Sept. 8; Serial No. 629,347, published June 16, 1953. Class 44.

Buchanan, U. B., New York, N. Y. Men's, women's, and children's hosiery. 579,781, Sept. 8; Serial No. 638,399, published June 2, 1953. Class 39.

Burl Laboratories, Inc., Beverly, N. J. Medicine as a relief for patients suffering from hay fever, etc. 579,675, Sept. 8; Serial No. 629,835, published June 16, 1953. Class 18.

Burlingame, Warren F., by assignment and change of name from Formula Plan Investment Management Corp., Boston, Mass. Furnishing statistical reports on the prices of securities. 579,886, Sept. 8; Serial No. 540,991. Class 101.

Burman, C. N., Co., Paterson, N. J. Electrical table lamps, pinup lamps, floor lamps, etc. 579,744, Sept. 8; Serial No. 635,517, published June 23, 1953. Class 21.

Butterworth System, Incorporated, Bayonne, N. J. Tank cleaning service and renting of machines for tank cleaning. 579,853, Sept. 8; Serial No. 589,423, published June 16, 1953. Class 103.

C & F Doll Fashions, Owensboro, Ky. Doll clothing. 579,849, Sept. 8; Serial No. 644,540, published June 16, 1953. Class 22.

Cabot, Godfrey L., Inc., Boston, Mass. Aluminum oxide. 579,789, Sept. 8; Serial No. 638,827, published June 23, 1953. Class 6.

Cal-Baden Mineral Water: *See*—
Gregg, Augustus H.

Caldwell, E. L., & Sons, Corpus Christie, Tex. Brush cutting machines. 579,638, Sept. 8; Serial No. 626,977, published May 26, 1953. Class 23.

Cambridge Industries Company, Cambridge, Mass. Plasticiser. 579,612, Sept. 8; Serial No. 624,223, published June 23, 1953. Class 6.

Cameto, Leon, doing business under the name and style of Production Foundry Company, Oakland, Calif. Surgical and medical body supports. 579,644, Sept. 8; Serial No. 627,320, published June 16, 1953. Class 44.

Carter Carburetor Corporation, St. Louis, Mo. Carburetors and fuel pumps and parts thereof. 579,525, Sept. 8; Serial No. 559,211, published June 2, 1953. Class 23.

Carter Carburetor Corporation, St. Louis, Mo. Carburetors and fuel pumps, and special wrenches, etc. 579,548, Sept. 8; Serial No. 603,474, published May 26, 1953. Class 23.

Carter, J. F., Company, Portland, Maine, and Beverly, Mass., to A. J. Tower Company, Boston, Mass. Oiled clothing. 94,058, re-renewed Nov. 4, 1953. O. G. Sept. 8. Class 39.

Cassella Farbwerke Mainkur, Frankfurt am Main-Fechenheim, Germany. Chemical products. 579,787, Sept. 8; Serial No. 638,691, published June 23, 1953. Class 6.

Cates, Chas. F., & Sons, Inc., Faison, N. C. Pickles, fruit preserves, sweet and sour relish, honey. 303,711, renewed June 6, 1953. O. G. Sept. 8. Class 46.

Caulk, L. D., Company, The, Milford, Del. Elastic dental impression material. 579,836, Sept. 8; Serial No. 641,122, published June 23, 1953. Class 44.

Certodix Limited, Hull, England. Adhesives. 579,711, Sept. 8; Serial No. 633,349, published June 9, 1953. Class 5.

Chadbourn Hosiery Mills, Incorporated, Charlotte, N. C. Women's hosiery. 579,623, Sept. 8; Serial No. 625,193, published May 26, 1953. Class 39.

Chadbourn Hosiery Mills, Incorporated, Charlotte, N. C. Ladies' hosiery. 579,691, Sept. 8; Serial No. 631,467, published May 26, 1953. Class 39.

Chapman & Sons Hosiery Company, Shreveport, La. Men's, women's and children's hosiery. 579,782, Sept. 8; Serial No. 638,401, published June 2, 1953. Class 39.

Chemo Puro Manufacturing Corporation, Long Island City, N. Y. Theophylline salt. 579,713, Sept. 8; Serial No. 633,606, published June 2, 1953. Class 18.

Chicago Dietetic Supply House, Inc., The, Chicago, Ill. Assorted candy suckers. 579,869, Sept. 8; Serial No. 615,755. Class 46.

Chicago Metallic Mfg. Co., Chicago, Ill. Cooking and baking utensils. 579,790, Sept. 8; Serial No. 638,834, published June 2, 1953. Class 13.

Chun King Sales, Inc., Duluth, Minn. Chicken chow mein, chow mein noodles, bean sprouts, etc. 579,754, Sept. 8; Serial No. 636,340, published June 16, 1953. Class 46.

Ciba Limited, Basel, Switzerland. Adrenocorticotropic hormone. 579,671, Sept. 8; Serial No. 629,357, published June 23, 1953. Class 18.

Ciba Pharmaceutical Products, Inc.: *See*—
Society of Chemical Industry in Basle.

Cilag Aktiengesellschaft, Schaffhausen, Switzerland. Chemical-pharmaceutical preparations. 579,608, Sept. 8; Serial No. 623,947, published May 26, 1953. Class 18.

Clark Tructractor Company, Buchanan, to Mechanical Handling Systems, Inc., Detroit, Mich. Conveying apparatus and parts thereof. 304,721, renewed July 18, 1953. O. G. Sept. 8. Class 23.

Cohen, Lawrence M., Greensboro, N. C. Electric fans. 579,780. Sept. 8; Serial No. 638,289, published June 23, 1953. Class 21.

Coleman, Wm. B., Co., Incorporated, New Orleans, La. Hosiery. 579,770, Sept. 8; Serial No. 637,242, published June 9, 1953. Class 39.

Colorado Fuel and Iron Corporation, The, Denver, Colo. Bolts. 579,791, Sept. 8; Serial No. 638,836, published June 2, 1953. Class 13.

Columbus Lumber Company, Brookhaven, Miss. Yellow pine and hardwood flooring, and hardwood and pine millwork. 579,600, Sept. 8; Serial No. 622,201, published June 9, 1953. Class 12.

Commercial Solvents Corporation, New York, N. Y. Device for subcutaneous implantation of antibiotic-containing pellets into young animals. 579,708, Sept. 8; Serial No. 633,102, published June 23, 1953. Class 44.

Companhia Geral da Agricultura das Vinhas do Alto Douro, doing business as Real Companhia dos Vinhos do Porto, Royal Oporto Wine Company, Companhia Velha, and The Old Company, Oporto, Portugal. Wines. 307,437–8, renewed Oct. 24, 1953. O. G. Sept. 8. Class 47.

Companhia Geral da Agricultura das Vinhas do Alto Duro, doing business as Real Companhia dos Vinhos do Porto, Royal Oporto Wine Company, Companhia Velha, and The Old Company, Oporto, Portugal. Wines. 307,440, renewed Oct. 24, 1953. O. G. Sept. 8. Class 47.

Companhia Velha: *See*—
Companhia Geral da Agricultura das Vinhas do Alto Douro.

Congress Drug Corporation, Chicago, assignor to G. D. Searle & Co., Skokie, Ill. Antacid preparation. 579,561, Sept. 8; Serial No. 609,231, published June 17, 1952. Class 18.

Conitech, Ltd., New York, N. Y. Artificial respiration apparatus. 579,703, Sept. 8; Serial No. 632,663, published June 23, 1953. Class 44.

Consolidated Sewing Machine Corp., New York, N. Y. Sewing machines and parts thereof and attachments therefor. 579,795, Sept. 8; Serial No. 639,108, published May 26, 1953. Class 23.

Continental X-ray Corporation, Chicago, Ill. General diagnostic X-ray power tube and control units, etc. 579,704, Sept. 8; Serial No. 632,773, published June 2, 1953. Class 44.

Converto Manufacturing Company: *See*—
Golay, Charles R.

Cooperstown Chemical, Inc., Cooperstown, N. Y. Detergent material. 579,594, Sept. 8; Serial No. 621,356, published June 9, 1953. Class 52.

Corhart Refractories Company, Louisville, Ky. Crushed refractory grains; mortars; and cements. 579,615, Sept. 8; Serial No. 624,470, published May 19, 1953. Class 12.

Corn Products Refining Company, New York, N. Y. Glucuronolactone, sodium glucuronate and potassium glucuronate, etc. 579,641, Sept. 8; Serial No. 627,118, published June 16, 1953. Class 18.

Cornwall & Co.: *See*—
Cornwall, Earl W.

Cornwall, Earl W., doing business as Cornwall & Co., Euclid, Ohio. Moisture vent tubes. 579,581, Sept. 8; Serial No. 618,787, published June 2, 1953. Class 34.

Coughlan, G. N., Company, West Orange, N. J. Silver cleaner. 579,762, Sept. 8; Serial No. 637,036, published June 2, 1953. Class 52.

Country Products: *See*—
Hatton, William H.

Crossley, Henry, (Packings) Limited, Bolton, England. Fiber packing. 579,842, Sept. 8; Serial No. 642,952, published June 9, 1953. Class 35.

Cultro, Inc., Boise, Idaho. Rotary cultivators. 579,540, Sept. 8; Serial No. 600,163, published May 26, 1953. Class 23.

Davey Tree Expert Company, The, Kent, Ohio. Manure. 579,534, Sept. 8; Serial No. 597,948, published May 27, 1952. Class 10.

Denham, James E., doing business under the fictitious name Skiparel Mfg. Co., Reseda, Calif. Exercising apparatus. 579,616, Sept. 8; Serial No. 624,678, published June 16, 1953. Class 22.

Des Noyers, Eugene, Branch Village, R. I. Ointment. 579,793, Sept. 8; Serial No. 638,949, published May 19, 1953. Class 18.

Diamond Springs Lime Company, San Francisco, Calif. Lime for construction purposes. 579,680, Sept. 8; Serial No. 629,990, published June 9, 1953. Class 12.

Dickinson & Co., Chicago and Eureka, to Dickinson & Co., Chicago, Ill. Canned vegetables. 306,764, renewed Sept 26, 1953. O. G. Sept. 8. Class 46.

Dijam Enterprises Inc., doing business as Marvin Manufacturing Company, Los Angeles, Calif. Ventilating fans and blowers. 579,870, Sept. 8; Serial No. 616,765. Class 34.

Dodge & Olcott, Inc., New York, N. Y. Solvents and solvent mixtures. 579,678, Sept. 8; Serial No. 629,934, published June 2, 1953. Class 6.

Dominettes Company: *See*—
Sachs, Frank.

Dominion Foundry Company, Winnipeg, Manitoba, Canada. Coal burning furnaces. 579,864, Sept. 8; Serial No. 600,881. Class 34.

Doolin, Daisy D., doing business as Frito Company, San Antonio, to The Frito Company, Dallas, Tex. Cakes. 306,005, renewed Aug. 29, 1953. O. G. Sept. 8. Class 46.

Douglas Fir Plywood Association, Tacoma, Wash. Plywood. 579,715, Sept. 8; Serial No. 633,720, published June 9, 1953. Class 12.

Douglas Fir Plywood Association, Tacoma, Wash. Plywood. 579,860, Sept. 8; Serial No. 626,448, published June 2, 1953. Class 12.

Duo-Way Pharmacal Corporation, New York, N. Y. Medicinal preparations. 579,808, Sept. 8; Serial No. 639,986, published June 9, 1953. Class 18.

Dupler, Raymond R., Toledo, Ohio. Hot air furnaces. 579,741, Sept. 8; Serial No. 635,127, published June 2, 1953. Class 34.

Dupli-Color Products Co., Inc., Chicago, Ill. Clear acrylic spray used to waterproof, rustproof and electrically insulate metallic surfaces. 579,610, Sept. 8; Serial No. 624,082, published June 9, 1953. Class 21.

Durable Sportwear Company, Inc., Lynbrook, N. Y. Men's and boys' jackets and coats. 579,614, Sept. 8; Serial No. 624,332, published May 26, 1953. Class 39.

Duratube & Wire Limited, Feltham, Middlesex, England. Jointing material. 579,785, Sept. 8; Serial No. 638,572, published June 2, 1953. Class 12.

Durochrome Co., Inc.: *See*—
Durochrome Co., The.

Durochrome Co., The, by Durochrome Co., Inc., Los Angeles, Calif. Decalcomania transfers. 328,216, Sept. 17, 1935 Republished Sept. 8. Class 38.

E-Z Eat Products: *See*—
Sampson, Arnold.

Eddy, Roger W., Newington, Conn. Musical bird calls. 579,722, Sept. 8; Serial No. 634,035, published June 23, 1953. Class 36.

Electric Indicator Company, Inc., Stamford, Conn. Electrical motors, electrical generators, and components thereof. 579,806, Sept. 8; Serial No. 639,814, published June 16, 1953. Class 21.

Electrolized Tap Corporation: *See*—
Electrolizing Corporation, The.

Electrolizing Corporation, The, by change of name from Electrolized Tap Corporation, Providence, R. I. Electrolytically treating metal working tools. 579,887, Sept. 8; Serial No. 591,979. Class 106.

Erie Resistor Corporation, Erie, Pa. Resistors. 579,653, Sept. 8; Serial No. 628,683, published June 16, 1953. Class 21.

Esso Standard Oil Company, Wilmington, Del., and New York, N. Y. Refined, semi-refined and unrefined petroleum oils and fractions for fuel, power, lighting, etc., purposes, and paraffin waxes. 579,797, Sept. 8; Serial No. 639,163, published June 9, 1953. Class 15.

Ethicon Suture Laboratories Incorporated, New Brunswick, N. J. Sutures and ligatures. 579,802, Sept. 8; Serial No. 639,364, published June 23, 1953. Class 44.

Expanded Rubber Company Limited, Croydon, Surrey, England. Natural and synthetic expanded and non-expanded rubber and resin materials. 579,555, Sept. 8; Serial No. 608,415, published June 16, 1953. Class 1.

Expanded Rubber Company Limited, Croydon, Surrey, England. Natural and synthetic expanded and non-expanded rubber and resin materials. 579,560, Sept. 8; Serial No. 608,968, published June 16, 1953. Class 1.

Fairfield Laboratories, Inc., Plainfield, N. J. Shampoo. 579,639, Sept. 8; Serial No. 627,055, published June 2, 1953. Class 52.

Fansteel Metallurgical Corporation, North Chicago, Ill. Battery charger units, rectifier cells, transformers, and resistance units, etc. 579,831, Sept. 8; Serial No. 640,557, published June 23, 1953. Class 21.

Faxon, Warren E., doing business as Midland Dental Company, Chicago, Ill., assignor to Midland Pharmacal Company, New York, N. Y. Denture relining pads. 579,541, Sept. 8; Serial No. 600,377, published June 9, 1953. Class 44.

Fear, Fred, & Co., Brooklyn, N. Y. Coloring dyes. 579,838, Sept. 8; Serial No. 641,287, published June 23, 1953. Class 6.

Finder Meat Company, New York and Forest Hills, N. Y. Salami. 579,881, Sept. 8; Serial No. 631,729. Class 46.

Fink, Joseph H., doing business as National Bird Control Laboratories, Chicago, Ill. Chemical compounds. 579,559. Sept. 8; Serial No. 608,864, published June 23, 1953. Class 6.

Firestone Tire & Rubber Company, The, Akron, Ohio. Material in the nature of artificial leather. 579,788, Sept. 8; Serial No. 638,708, published June 9, 1953. Class 50.

Food Machinery and Chemical Corporation, San Jose, Calif. Preheaters, cookers and coolers. 579,543, Sept. 8; Serial No. 601,260, published Apr. 22, 1952. Class 34.

Formula Plan Investment Management Corp.: *See*—
Burlingame, Warren F.

Frito Company: *See*—
Doolin, Daisy D.

Frito Company, The: *See*—
Doolin, Daisy D.

Galleher, Incorporated, Cleveland, Ohio. Anesthesia administering parts. 579,792, Sept. 8; Serial No. 638,844, published June 16, 1953. Class 44.

Garan Chemical Corporation, Los Angeles, Calif. Lacquer type parting agent. 579,730, Sept. 8; Serial No. 634,406, published June 2, 1953. Class 1.

Gaubeart, Katie R., York, Pa. Ladies' hosiery. 579,740, Sept. 8; Serial No. 635,085, published June 9, 1953. Class 39.

Gaymont Laboratories, Inc., Chicago, Ill. Toilet soap, liquid and cream shampoo, and cleaning preparations. 579,586, Sept. 8; Serial No. 620,154, published June 9, 1953. Class 52.

Geigy Company, Inc., New York, N. Y. Dyestuffs, lakes and chemical products suitable for dyeing purposes. 307,766, renewed Oct. 31, 1953. O. G. Sept. 8. Class 6.

Gelle Freres: *See*—
Parfumerie Gelle Freres, Societe a Responsabilite Limitee.

General Electric Company, Schenectady, N. Y. Television broadcast receivers, and radio and phonograph combinations incorporating television broadcast receivers. 579,553, Sept. 8; Serial No. 605,515, published June 23, 1953. Class 21.

General Motors Corporation, Detroit, Mich. Shock absorbing devices and parts thereof for vehicles. 579,620, Sept. 8; Serial No. 624,882, published June 16, 1953. Class 19.

General Motors Corporation, Detroit, Mich. Metal tubing. 579,794, Sept. 8; Serial No. 639,034, published June 2, 1953. Class 13.

Gerson-Stewart Corporation Company, The, Cleveland, Ohio. Cleaning powder. 579,563, Sept. 8; Serial No. 610,013, published Mar. 25, 1952. Class 52.

Getz Bros. & Co., San Francisco, Calif. Fractional horsepower electric motors. 576,695, Sept. 8; Serial No. 631,355, published June 16, 1953. Class 21.

Gilda Audrey Products, Inc., New York, N. Y. Cold wave solution. 579,584, Sept. 8; Serial No. 619,327, published June 9, 1953. Class 51.

Gillette Company, The, doing business under the name and style of The Toni Company, Boston, Mass. Home permanent waving kits. 579,798, Sept. 8; Serial No. 639,221, published June 23, 1953. Class 44.

Gillette Rubber Company, Eau Claire, Wis., to United States Rubber Company, New York, N. Y. Bicycle tires and tubes. 306,247, renewed Sept. 12, 1953. O. G. Sept. 8. Class 35.

Globe Hoist Company, Des Moines, Iowa. Stationary hydraulic automobile hoist. 579,880, Sept. 8; Serial No. 630,191. Class 23.

Golay, Charles R., doing business under the name and style of Converto Manufacturing Company, Cambridge City, Ind. Automotive truck bodies; farm wagons; trailers. 579,603, Sept. 8; Serial No. 622,590, published June 23, 1953. Class 19.

Goldblatt Bros., Inc., Chicago, Ill. Dog food. 308,247, renewed Nov. 28, 1953. O. G. Sept. 8. Class 46.

Good Humor Corporation: *See*—
Good Humor Corporation of America.

Good Humor Corporation of America, Cleveland, Ohio, to Good Humor Corporation, Brooklyn, N. Y. Peridicals. 301,205, renewed Feb. 21, 1953. O. G. Sept. 8. Class 38.

Gothé, David E., New York, N. Y. Perfume, toilet water, eau de cologne. 579,697, Sept. 8; Serial No. 631,662, published June 2, 1953. Class 51.

Goyer Company, The, Greenville, Miss. Coffee. 579,876, Sept. 8; Serial No. 625,102. Class 46.

Grand Order of the Sword of Bunker Hill, The, Olney, Ill. Stimulating in its members an interest in charity, good fellowship, and patriotism. 579,856, Sept. 8; Serial No. 636,592, published June 16, 1953. Class 100.

Gregg, Augustus H., doing business as Cal-Baden Mineral Water, to I. C. Gregg, Whittier, Calif. Mineral water. 306,290, renewed Sept. 12, 1953. O. G. Sept. 8. Class 45.

Gregg, Isabel C.: *See*—
Gregg, Augustus H.

Grubbs, C. M. doing business as Mrs. Grubbs Potato Chip Company, Fort Worth, Tex. Golden hued potato chips. 579,885, Sept. 8; Serial No. 643,224. Class 46.

Grubbs, Mrs., Potato Chip Company: *See*—
Grubbs, C. M.

Gummed Products Company, The, Troy, Ohio. Moisture sensitive adhesive tapes. 579,591, Sept. 8; Serial No. 620,916, published June 9, 1953. Class 5.

Hanes Hosiery Mills Company, Winston-Salem, N. C. Women's hosiery. 579,747, Sept. 8; Serial No. 635,594, published May 26, 1953. Class 39.

Hardtmuth, L. & C., Vienna and Budweis, Austria-Hungary, to L. & C. Hardtmuth, Inc., Bloomsbury, N. J. Fountain-pens and nibs therefor. 93,442, re-renewed Sept. 16, 1953. O. G. Sept. 8. Class 37.

Hardtmuth, L. & C., Inc.: *See*—
Hardtmuth, L. & C.

Hartford Battery Corporation: *See*—
Vanity Fair Corporation.

Harzfeld's, Inc., Kansas City, Mo. Children's shoes. 307,820, renewed Nov. 7, 1953. O. G. Sept. 8. Class 39.

Harzfeld's, Inc., Kansas City, Mo. Children's shoes. 307,822, renewed Nov. 7, 1953. O. G. Sept. 8. Class 39.

Hatton, William H., doing business as Country Products, Morgan, Vt. Table syrup. 579,579, Sept. 8; Serial No. 618,294, published June 9, 1953. Class 46.

Heddon's, James, Sons, Dowagiac, Mich. Fishing rods. 305,165, renewed Aug. 8, 1953. O. G. Sept. 8. Class 22.

Heiner, William G.: *See*—
Waters, Robert W., and Heiner.

Heienhart Novelty Corporation, New York, N. Y. Molded plastic toys and games. 579,542, Sept. 8; Serial No. 600,434, published June 23, 1953. Class 22.

Hercules Powder Company, Wilmington, Del. Cellulose gum. 579,771, Sept. 8; Serial No. 637,311, published June 16, 1953. Class 1.

Hillman Motor Car Company Limited, Coventry, England. Power units. 579,643, Sept. 8; Serial No. 627,187, published May 26, 1953. Class 23.

Hobart Manufacturing Company, The, assignee: *See*—
Mullins Manufacturing Corporation.

Holmes, Archibald, & Son, Philadelphia, Pa. Carpets and rugs. 579,573, Sept. 8; Serial No. 616,709, published Mar. 11, 1952. Class 42.

Home Maintenance Service, Inc., Hutchinson, Kans. Electrically operated vaporizing unit. 579,654, Sept. 8; Serial No. 628,694, published June 9, 1953. Class 21.

Horizon Fishing Rod Servicer Co., Philadelphia, Pa. Fishing rod clamp. 579,640, Sept. 8; Serial No. 627,065, published June 16, 1953. Class 22.

Horn & Hardart Baking Co., Philadelphia, Pa. Coffee and beverage chocolate. 579,523, Sept. 8; Serial No. 550,599, published June 9, 1953. Class 46.

House for Men, Inc., The, Chicago, Ill. Cologne deodorant stick. 579,676, Sept. 8; Serial No. 629,895, published June 9, 1953. Class 51.

Hullhorst, Charles E., doing business as Chas. E. Hullhorst Co., Cleveland, Ohio. Potting soil and humus for house plants. 579,742. Sept. 8; Serial No. 635,308, published June 9, 1953. Class 1.

Hullhorst, Chas. E., Co.: *See*—
Hullhorst, Charles E.

Humanic Brands: *See*—
Bishop, Howard B.

Ideal Mills, Inc., Poughkeepsie, N. Y. Knitted piece goods. 579,672, Sept. 8; Serial No. 629,370, published Dec. 23, 1952. Class 42.

Indiana Steel Products Company, The, Valparaiso, Ind. Permanent magnets. 579,609, Sept. 8; Serial No. 623,960, published June 16, 1953. Class 21.

Indola N. V., Voorburg, Netherlands. Ventilating fans, or blowers. 579,648, Sept. 8; Serial No. 627,884, published June 8, 1953. Class 34.

Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Portable, hand supported electric tools. 579,758, Sept. 8; Serial No. 636,710, published June 23, 1953. Class 21.

Inland Fire Brick Company, The, Cleveland, Ohio. Plastic fire-brick. 579,578, Sept. 8; Serial No. 618,263, published June 9, 1953. Class 12.

International Milling Company: *See*—
New Prague Flouring Mill Company.

International Minerals & Chemical Corporation, Chicago, Ill. Cough syrup. 579,809, Sept. 8; Serial No. 639,996, published June 9, 1953. Class 18.

Iroquois Beverage Corporation, Buffalo, N. Y. Malt beverages. 307,461, renewed Oct. 24, 1953. O. G. Sept. 8. Class 48.

Iselin-Jefferson Company, Inc., New York, N. Y. Clothing. 579,743. Sept. 8; Serial No. 635,310, published May 19, 1953. Class 39.

James Manufacturing Company, Fort Atkinson, Wis. Poultry feeders. 579,867. Sept. 8; Serial No. 609,802. Class 50.

Jaymar Specialty Company, Brooklyn, N. Y. Tiny tot toys. 579,673–4. Sept. 8; Serial Nos. 629,732–3, published June 16, 1953. Class 22.

Johns-Manville Corporation, New York, N. Y. Flat asbestos-cement pallets. 579,651, Sept. 8; Serial No. 628,278, published June 9, 1953. Class 50.

Johnson, S. C., & Son, Inc., Racine, Wis. Floor and furniture polish. 579,768. Sept. 8; Serial No. 637,131, published June 2, 1953. Class 4.

Jonathan Belt Co. Incorporated, New York, N. Y. Belts. 579,735. Sept. 8; Serial No. 634,788, published May 26, 1953. Class 39.

Jones, R. A., & Co., Covington, Ky., by Botany Mills, Inc., Passaic, N. J. Soap. 339,982. Oct. 27, 1936. Republished Sept. 8. Class 52.

June Lamp Manufacturing Company, Baltimore, Md. Electric table and boudoir lamps and shades therefor. 579,829–30. Sept. 8; Serial Nos. 640,461–2, published June 23, 1953. Class 21.

Juvenile Shoe Corporation of America, The, Aurora and St. Louis, to The Juvenile Shoe Corporation of America, Aurora, Mo. Shoes and slippers. 306,508, renewed Sept. 19, 1953. O. G. Sept. 8. Class 39.

Kadechka, Norma T., St. Louis Park, assignor to Lick, Inc., Minneapolis, Minn. Scalp and dandruff preparation. 579,751, Sept. 8; Serial No. 635,770, published June 2, 1953. Class 51.

Kali Manufacturing Company, Philadelphia, Pa. Chemical preparations. 579,630. Sept. 8; Serial No. 626,169, published June 2, 1953. Class 6.

Karpoff, Alex D., doing business as American Muffler Co., Boston, Mass. Combination key ring, chain, and emblem. 579,776, Sept. 8; Serial No. 637,996, published June 9, 1953. Class 13.

Kaydette Mfg. Corp., New York, N. Y. Household aprons, garment pockets, and children's sun suits. 579,718, Sept. 8; Serial No. 633,772, published June 2, 1953. Class 39.

Kayser, Julius, & Co., New York, N. Y. Hosiery. 579,761, Sept. 8; Serial No. 636,852, published June 9, 1953. Class 39.

Keiser, Harold L., doing business as Medfoam Products Company, Fremont, Ohio. Elastic roller bandages. 579,832, Sept. 8; Serial No. 640,636, published June 23, 1953. Class 44.

Keith Laboratory: *See*—
Bandy, Keith K.

Kidde Manufacturing Co., Inc., Bloomfield, N. J. Tubal insufflators; apparatus for converting compressed or liquefied carbon dioxide into solid carbon dioxide, etc. 579,582–3, Sept. 8; Serial No. 619,068–9, published June 9, 1953. Class 44.

Kiefer-Stewart Company, Indianapolis, Ind. Witch hazel jelly, hair tonic, and cologne water. 579,786, Sept. 8; Serial No. 638,588, published June 2, 1953. Class 51.

Killian, Tom, Inc., Denver, Colo. Auto-motive pistons and machines. 579,684, Sept. 8; Serial No. 630,938, published May 26, 1953. Class 23.

Kingston Products Corporation, Kokomo, Ind. Carburetors, vacuum tanks for use with carburetors, tractor governors, and lawn mowers. 579,569, Sept. 8; Serial No. 620,511, published Feb. 17, 1953. Class 23.

Kratt, Wm., Co., Union, N. J. Harmonicas. 579,637, Sept. 8; Serial No. 626,946, published June 16, 1953. Class 36.

La Gaine Scandale, Lyon, France. Stockings for use by persons having varicose veins. 579,687, Sept. 8; Serial No. 631,210, published June 23, 1953. Class 44.

Laher Spring and Tire Corporation, Oakland, Calif. Automobile and truck pneumatic tires. 579,613, Sept. 8; Serial No. 624,279, published June 16, 1953. Class 35.

Lake Shore Engineering Company, Iron Mountain, Mich. Mine skips. 579,556, Sept. 8; Serial No. 608,420, published May 19, 1953. Class 23.

Lambert Company, The, doing business as John Hudson Moore Co., Division of The Lambert Company, New York, N. Y., and Jersey City, N. J. Hand soap. 579,736, Sept. 8; Serial No. 634,791, published June 2, 1953. Class 52.

Lambert Company, The, St. Louis, Mo. Dentifrice. 579,841, Sept. 8; Serial No. 642,666, published June 23, 1953. Class 51.

Lancaster Engineering Corporation, Lancaster, Pa. Machines for grinding or mixing cattle feed. 579,865, Sept. 8; Serial No. 606,710. Class 23.

Lancaster Engineering Corporation, Lancaster, Pa. Machine for grinding or mixing cattle feed. 579,866, Sept. 8; Serial No. 606,712. Class 23.

La Salle Steel Company, assignor to Redi-Bolt, Inc., Hammond, Ind. Threaded steel rods. 579,535, Sept. 8; Serial No. 598,192, published Oct. 28, 1952. Class 14.

La Spirotechnique, Paris, France. Diving gear—that is, respiratory apparatus. 579,527, Sept. 8; Serial No. 589,454, published June 16, 1953. Class 44.

Lawrence, Norman J., doing business as Lawrence of London, New York, N. Y. Ladies' raincoats and ladies' coats. 579,681, Sept. 8; Serial No. 630,086, published June 9, 1953. Class 39.

Lawrence of London: *See*—
Lawrence, Norman J.

Lectrolite Corporation, Defiance, Ohio. Box wrenches, combination box and open end wrenches, etc. 579,565, Sept. 8; Serial No. 612,405, published May 26, 1953. Class 23.

Lee, H. D., Company, Incorporated, The, Kansas City, Mo. Men's and boys' waistband overalls, bib overalls, overall jackets, etc. 579,701, Sept. 8; Serial No. 632,482, published May 26, 1953. Class 39.

Leeds Ltd. Coats, Inc.: *See*—
Siegel Bros. Garment Corp.
Siegel Bros. Kiki Maid Koats Inc.
Siegel Brothers Kiki Maid Koats, Inc.

Lemieux Bros., assignor to Lemieux Bros., Inc., West Hanover, Mass. Mouldings, doors and door frames, etc. 579,562, Sept. 8; Serial No. 609,246, published Nov. 25, 1952. Class 12.

Lemieux Bros., Inc. assignee: *See*—
Lemieux Bros.

Lewin Drug Co.: *See*—
Lewin, Edgar M.

Lewin, Edgar M., doing business as Lewin Drug Co., San Francisco, Calif. Antiseptic douche powder and antiseptic vaginal suppository. 579,590, Sept. 8; Serial No. 620,811, published Sept. 23, 1952. Class 18.

Lick, Inc., assignee: *See*—
Kadechka, Norma T.

Lily Mill and Power Company, to Lily Mills Company, Shelby, N. C. Sewing thread. 305,781, renewed Aug. 22, 1953. O. G. Sept. 8. Class 43.

Lily Mills Company: *See*—
Lily Mill and Power Company.

Live Food Products Co., Burbank, Calif. Hematinic and vitamin preparation. 579,645, Sept. 8; Serial No. 627,449, published June 9, 1953. Class 18.

Longines-Wittnauer Watch Co., Inc.: *See*—
Sheehy, Frances.

Lord Jeff Knitting Company, Incorporated, Brooklyn, N. Y. Men's knitted sweaters and basque shirts. 579,596, Sept. 8; Serial No 621,522, published May 26, 1953. Class 39.

Lovisi Bros., New York, N. Y. Navy uniforms. 579,728, Sept. 8; Serial No. 634,376, published May 26, 1953. Class 39.

Lubin-Weeker Co., Inc., New York, N. Y. Ladies' and men's pajamas. 579,723, Sept. 8; Serial No. 634,048, published June 9, 1953. Class 39.

Lucky Hand Company, Atlanta, Ga. Perfumed bath water and bath salts, body deodorants, etc. 579,668, Sept. 8; Serial No. 629,246, published June 9, 1953. Class 51.

Luster Art Company, Salt Lake City, Utah. Modeling clays. 579,536, Sept. 8; Serial No. 598,660, published June 16, 1953. Class 1.

M. K. M. Hosiery Mills, Inc., Boston, Mass. Women's hosiery. 579,576, Sept. 8; Serial No. 617,762, published June 2, 1953. Class 39.

Mackinlay, Charles, & Company Limited: *See*— Mackinlay, Chas., & Company.

Mackinlay, Chas., & Company, to Charles Mackinlay & Company Limited, Leith, Scotland. Scotch whisky. 307,394, renewed Oct. 24, 1953. O. G. Sept. 8. Class 49.

Mandel & Cohen, New York, N. Y., to The Springs Cotton Mills, Lancaster, S. C. Coats, suits, skirts, hats, etc. 303,762, renewed June 6, 1953. O. G. Sept. 8. Class 39.

Manikin Hosiery Co.: *See*— B-Z-B Knitting Co.

Manufacturing Laboratories, Inc., Boston, Mass. Leather dressing, preservative, and softening composition. 579,748, Sept. 8; Serial No. 635,602, published June 16, 1953. Class 6.

Mara Laboratories, Inc., The, Harrison, N. J. Medicinal preparation. 579,814, Sept. 8; Serial No. 640,183, published June 9, 1953. Class 18.

Marcy Company, The, Boston, Mass., to Standard Laboratories, Inc., New York, N. Y. Cholagogue. 92,088, re-renewed June 17, 1953. O. G. Sept. 8. Class 18.

Marsh Wall Products, Inc., Dover, Ohio. Plastic surface material. 579,627–8, Sept. 8; Serial No. 625,682–3, published May 26, 1953. Class 12.

Marvin Manufacturing Company: *See*— Dijam Enterprises Inc.

Marx, Louis, & Co., Inc., New York, N. Y. Toy pistol. 579,843, Sept. 8; Serial No. 643,396, published June 23 1953. Class 22.

Mason, William G., doing business as Triangle Manufacturing Company, Detroit, Mich. Sump pump. 579,550, Sept. 8; Serial No. 604,647, published May 26, 1953. Class 23.

Masonite Corporation, Chicago, Ill., and Laurel, Miss. Hemi-cellulose material. 579,595, Sept. 8; Serial No. 621,409, published June 9, 1953. Class 1.

Mattox and Moore, Inc., Indianapolis, Ind. Gun-like hypodermic device. 579,650, Sept. 8; Serial No. 628,218, published June 2, 1953. Class 44.

McCrory Stores Corporation, New York, N. Y. Cutlery. 305,946–7, renewed Aug. 29, 1953. O. G. Sept. 8. Class 23.

McLaurin-Jones Co., Brookfield, Mass. Gummed tape. 306,550, renewed Sept. 26, 1953. O. G. Sept. 8. Class 5.

McMahon, Robert E., doing business as Sentinel Manufacturing Co., Seattle, Wash. Corrosion inhibiting anode assemblies. 579,692, Sept. 8; Serial No. 631,489, published June 9, 1953. Class 21.

Mead, Johnson, & Company, Evansville, Ind. Infusion sets. 579,738, Sept. 8; Serial No. 634,986, published June 16, 1953. Class 44.

Mechanical Handling Systems, Inc.: *See*— Clark Tructractor Company.

Medco Products Co., Tulsa, Okla. Electrical treatment machine for the stimulation of muscles. 579,679, Sept. 8; Serial No. 629,951, published June 2, 1953. Class 44.

Medfoam Products Company: *See*— Keiser, Harold L.

Medical Supply Company, Rockford, Ill. Adhesive bandages, antiseptic applicators, antiseptic swabs, etc. 579,605, Sept. 8; Serial No. 623,423, published June 2, 1953. Class 44.

Mennen Company, The, Newark, N. J. Hair oil preparation. 579,532, Sept. 8; Serial No. 597,770, published Oct. 7, 1952. Class 51.

Merck & Co., Inc.: *See*— Sharp & Dohme Incorporated.

Merrimac Hat Corporation, Amesbury, Mass. Ladies' and gir's' hats and hat bodies. 444,789, Sept. 8; Serial No. 507,993, published June 22, 1948. Class 39.

Michigan Peat, Inc., New York, N. Y. Peat, peat moss, and humus. 579,529, Sept. 8; Serial No. 592,918, published June 16, 1953. Class 1.

Midland Dental Company: *See*— Faxon, Warren E.

Midland Pharmacal Company, assignee: *See*— Faxon, Warren E.

Mid-States Corp., Monrovia, Calif., Union City, Mich., and Chicago, Ill. House trailers. 579,847, Sept. 8; Serial No. 643,698, published June 23, 1953. Class 19.

Mid-States Corp., Monrovia, Calif., Union City, Mich., and Chicago, Ill. House trailers. 579,848, Sept. 8; Serial No. 643,700, published June 23, 1953. Class 19.

Minnesota Mining and Manufacturing Company, St. Paul, Minn. Electrical insulating plastic sheet material. 579,685, Sept. 8; Serial No. 630,944, published June 23, 1953. Class 21.

Miracle Adhesives Corporation, New York, N. Y. Underlayment material in the nature of a plastic synthetic resin containing aggregate and filler materials. 579,557, Sept. 8; Serial No. 608,712, published June 2, 1953. Class 12.

Mission Manufacturing Company, Houston, Tex. Packing, namely, pump packing, etc. 579,763–4, Sept. 8; Serial Nos. 637,068–9, published June 23, 1953. Class 35.

Modell, Louis B., New York, N. Y. Combined ultra-violet and infra red health heat lamp. 579,772, Sept. 8; Serial No. 637,386, published June 2, 1953. Class 44.

Modern Sales Company, Los Angeles, Calif. Packaged set containing a measuring jigger, and a combination ice pick, bottle opener, etc. 579,834, Sept. 8; Serial No. 640,953, published June 9, 1953. Class 50.

Mojud Hosiery Co., Inc., Long Island City, N. Y. Lady's stockings. 579,796, Sept. 8; Serial No. 639,140, published June 2, 1953. Class 39.

Montenier, Jules, Chicago, Ill. Preparation for the treatment of hair. 579,601, Sept. 8; Serial No. 622,269, published June 9, 1953. Class 51.

Monumental Manufacturing Corporation, Hanover, Pa. Bowling pins. 579,851–2, Sept. 8; Serial Nos. 644,773–4, published June 16, 1953. Class 22.

Moore, John Hudson, Co., Division of The Lambert Company: *See*— Lambert Company, The.

Moore & Munger, New York, N. Y. Petroleum wax composition. 579,688, Sept. 8; Serial No. 631,215, published May 19, 1953. Class 15.

Mullins Manufacturing Corporation, Salem and Warren, assignors to The Hobart Manufacturing Company, Troy, Ohio. Porcelain enamelled pressed sheet metal sinks, etc. 444,788, Sept. 8; Serial No. 506,052, published Feb. 18, 1947. Class 13.

Murena, Joseph A., New York, N. Y. Liquid preparation for cleaning and polishing footwear. 579,552, Sept. 8; Serial No. 605,433, published June 9, 1953. Class 4.

Mutual Broadcasting System, Inc., New York, N. Y. Radio broadcasting services. 579,854, Sept. 8; Serial No. 612,468, published June 16, 1953. Class 104.

Myrurgia, S. A., Barcelona, Spain. Massage cream, toilet cream, cold cream, etc. 192,166, Nov. 25, 1924. Republished Sept. 8. Class 51.

Myrurgia, S. A., Barcelona, Spain. Toilet soaps. 418,370, Dec. 18, 1945. Republished Sept. 8. Class 52.

Namm-Loeser's Inc.: *See*— Namm's, Inc.

Namm's, Inc., Brooklyn, N. Y., now by change of name, Namm-Loeser's Inc. Men's and boys' overcoats, coats, vests, etc. 579,544, Sept. 8; Serial No. 602,465, published June 2, 1953. Class 39.

Nashua Corporation, Nashua, N. H. Adhesively coated paper tape. 579,753, Sept. 8; Serial No. 636,142, published June 9, 1953. Class 5.

Nathan Straus-Duparquet, Inc., New York, N. Y. Cooking equipment. 579,547, Sept. 8; Serial No. 603,263, published June 9, 1953. Class 34.

National Bird Control Laboratories: *See*— Fink, Joseph H.

National Biscuit Company: *See*— Bennett, F. H., Biscuit Company.

National Biscuit Company, Jersey City, N. J., and New York, N. Y., to National Biscuit Company, New York, N. Y. Biscuit. 93,009, re-renewed Aug. 12, 1953. O. G. Sept. 8. Class 46.

National Biscuit Company, Jersey City, N. J., and New York, N. Y., to National Biscuit Company, New York, N. Y. Biscuit. 94,311, re-renewed Nov. 25, 1953. O. G. Sept. 8. Class 46.

National Biscuit Company, Jersey City, N. J., and New York, N. Y., to National Biscuit Company, New York, N. Y. Biscuit. 94,313, re-renewed Nov. 25, 1953. O. G. Sept. 8. Class 46.

National Radiator Company, The: *See*— Waters, Robert W., and Heiner.

Neiman-Marcus Company, Dallas, Tex. Perfumes and toilet goods. 579,725, Sept. 8; Serial No. 634,157, published June 2, 1953. Class 51.

Nethercutt, Jack B., doing business as Nethercutt Laboratories, Santa Monica, Calif. Cosmetics. 579,619, Sept. 8; Serial No. 624,793, published June 2, 1953. Class 51.

Nethercutt Laboratories: *See*— Nethercutt, Jack B.

Neuschwanger, Charles W., assignee: *See*— Sachs, Frank.

New Prague Flouring Mill Company, New Prague, to International Milling Company, Minneapolis, Minn. Wheat-flour. 92,820, re-renewed July 29, 1953. O. G. Sept. 8. Class 46.

Nidia Botanical Garden, New York, N. Y. Soap. 579,709, Sept. 8; Serial No. 633,268, published June 9, 1953. Class 52.

Noma Electric Corporation, New York, N. Y., and Hamilton, Ohio, assignor to Radio Corporation of America, New York, N. Y. Gas stoves, ovens and parts thereof. 579,622, Sept. 8; Serial No. 625,078, published June 16, 1953. Class 34.

Northwest Chemical Co., Inc., Detroit, Mich. Metal cleaning compound. 579,602, Sept. 8; Serial No. 622,554, published Feb. 24, 1953. Class 52.

Old Company, The: *See*— Companhia Geral da Agricultura das Vinhas do Alto Douro.

Oregon Dairy Breeders Association, Corvallis, Oreg. 579,624, Sept. 8; Serial No. 625,617, published June 2, 1953. Class 1.

Pacific Lumber Company, The, San Francisco, Calif. Organic acid group. 579,778, Sept. 8; Serial No. 638,211, published June 16, 1953. Class 6.

Pacific Lumber Company, The, San Francisco, Calif. Sodium salt. 579,779, Sept. 8; Serial No. 638,212, published June 16, 1953. Class 6.

Pacific Wire Products Company, Los Angeles, by Pacific Wire Products Company (1946), Compton, Calif. Tinned bronze wire insect screening. 300,414, Jan. 17, 1933. Republished Sept. 8, 1953. Class 13.

Pacific Wire Products Company (1946): *See*— Pacific Wire Products Company.

Parfumerie Gelle Freres, Societe a Responsabilite Limitee and trading as Gelle Freres, Paris, France. Perfume, cologne, toilet water. 579,530, Sept. 8; Serial No. 594,918, published May 26, 1953. Class 51.

Parsons & Baker Co., The, Phoenixville, Pa. Men's and children's knit underwear. 306,312, renewed Nov. 28, 1953. O. G. Sept. 8. Class 39.

Patco Mfg. Co.: *See*— Thompson, Paul J.

Peerless Plastics, Culver City, Calif. Interior decorative wall tile. 579,783, Sept. 8; Serial No. 638,550, published June 2, 1953. Class 12.

Pennsylvania Flexible Metallic Tubing Company, Philadelphia, Pa. Fluid conduit couplings. 579,625–6, Sept. 8; Serial Nos. 625,622–3, published June 9, 1953. Class 13.

Perry Peat Company, Morrice, Mich. Peat, peat moss, and blended potting soil. 579,690, Sept. 8; Serial No. 631,374, published June 9, 1953. Class 1.

Persons, Ralph H., doing business as American Vacuum Company, Chicago, Ill. Electrically operated vacuum cleaner. 579,597, Sept. 8; Serial No. 621,575, published May 26, 1953. Class 21.

Petroleum Specialties, Inc., New York, N. Y. Motor oils. 579,585, Sept. 8; Serial No. 619,353, published May 13, 1952. Class 15.

Phoenix Hosiery Company, Milwaukee, Wis. Women's hosiery. 579,799, Sept. 8; Serial No. 639,339, published June 9, 1953. Class 39.

Pillsbury Mills, Inc., Minneapolis, Minn. Farinaceous mix. 579,871, Sept. 8; Serial No. 618,366. Class 46.

Pincus Bros. Incorporated, Philadelphia, Pa. Men's suits, sportcoats, slacks, topcoats, etc. 579,666, Sept. 8; Serial No. 629,121, published May 26, 1953. Class 39.

Pincus Bros. Incorporated, Philadelphia, Pa. Men's suits, sportcoats, slacks, topcoats, etc. 579,667, Sept. 8; Serial No. 629,122, published May 19, 1953. Class 39.

Pittsburgh Consolidation Coal Company, Pittsburgh, Pa. Coal. 579,773, Sept. 8; Serial No. 637,460, published June 9, 1953. Class 1.

Pittsburgh Corning Corporation, Pittsburgh, Pa. Architectural glass. 579,526, Sept. 8; Serial No. 569,013, published June 16, 1953. Class 12.

Plastic Engineering, Inc., Cleveland, Ohio. Plastic tile. 579,629, Sept. 8; Serial No. 626,114, published Feb. 3, 1953. Class 12.

Pool Manufacturing Company, Sherman, Tex. Overalls, jumpers, trousers, etc. 306,146, renewed Sept. 12, 1953. O. G. Sept. 8. Class 39.

Powers Chemco, Inc., Glen Cove, N. Y. Artists' brushes, Chinese re-etching brushes, glass fibre re-etching brushes, etc. 579,574, Sept. 8; Serial No. 617,160, published June 24, 1952. Class 29.

Pratt & Lambert, Inc., Buffalo, N. Y. Varnishes. 115,999, Mar. 27, 1917. Republished Sept. 8. Class 16.

Pratt & Lambert, Inc., Buffalo, N. Y. Paint enamels, varnishes, primers, and thinners (solvents). 230,485, July 26, 1927. Republished Sept. 8. Class 16.

Pratt & Lambert, Inc., Buffalo, N. Y. Varnishes, surfacers, primers. 230,486, July 26, 1927. Republished Sept. 8. Class 16.

Pratt & Lambert, Inc., Buffalo, N. Y. Varnishes, paint enamels, lacquers, etc. 358,177, June 28, 1938. Republished Sept. 8. Classes 12 and 16.

Premo Pharmaceutical Laboratories, Inc., South Hackensack, N. J. Antihistaminic, anaesthetic, antibiotic water soluble cream. 579,727, Sept. 8; Serial No. 634,338, published Feb. 3, 1953. Class 18.

Prescott Spinner Manufacturing Co.: *See*— Stapf, Charles H.

Price Candy Company, Kansas City, Mo. Candy. 579,647, Sept. 8; Serial No 627,702, published Nov. 4, 1952. Class 46.

Precision Scientific Co., Chicago, Ill. Laboratory equipment. 401,577, May 25, 1943. Republished Sept. 8. Class 26.

Precision Scientific Co., Chicago, Ill. Unitary apparatus for determining moisture content of materials, and comprising an electronic control box, burettes drying tube, etc. 432,441, Sept. 2, 1947. Republished Sept. 8. Class 26.

Production Foundry Company: *See*— Cameto, Leon.

Pure Oil Company, The, Chicago, Ill. Automobile shampoo, automobile cooling system cleaner. 579,549, Sept. 8; Serial No. 604,221, published May 19, 1953. Class 52.

Quaker Pacific Rubber Company, San Francisco, Calif. Plastic hose. 579,840, Sept. 8; Serial No. 642,202, published June 23, 1953. Class 35.

Quaker Rubber Corporation, Philadelphia, Pa. Lawn hose. 579,765, Sept. 8; Serial No. 637,084, published June 9, 1953. Class 35.

Quaker Rubber Corporation, Philadelphia, Pa. Lawn hose and conveyor belting. 579,837, Sept. 8; Serial No. 641,206, published June 16, 1953. Class 35.

Radio Corporation of America, assignee: *See*— Noma Electric Corporation.

Randal, Downing B., doing business as Randal Nutritional Laboratories, Arcadia, Calif. Fortified food supplement. 579,570, Sept. 8; Serial No. 614,787, published June 2, 1953. Class 18.

Randal Nutritional Laboratories: *See*— Randal, Downing B.

Randall Manufacturing Company, Inc., New York, N. Y. Machines for removing grease from metal articles, machines for washing metal articles, etc. 579,699, Sept. 8; Serial No. 631,311, published May 26, 1953. Class 23.

Ray Industries, Inc., Detroit, Mich., and Los Angeles, Calif. Charcoal briquets. 579,716, Sept. 8; Serial No. 633,735, published June 2, 1953. Class 1.

Real Companhia dos Vinhos do Porto: *See*— Companhia Geral da Agricultura das Vinhas do Alto Douro.

Red Dot Laboratories, Florence, S. C. Preparation for the extermination of roaches, water bugs, etc. 579,533, Sept. 8; Serial No. 597,842, published June 23, 1953. Class 6.

Redi-Bolt, Inc., assignee: *See*— La Salle Steel Company.

Reed & Carnrick, Jersey City, N. J. Medicine—namely a barbiturate-containing sedative, tranquillizer and muscle relaxant. 579,815, Sept. 8; Serial No. 640,360, published June 16, 1953. Class 18.

Reichhold Chemicals, Inc., Detroit, Mich. Synthetic resins and solutions thereof. 579,774, Sept. 8; Serial No. 637,721, published June 23, 1953. Class 6.

Reichhold Chemicals, Inc., Detroit, Mich. Synthetic resins and solutions thereof. 579,775, Sept. 8; Serial No. 637,723, published June 23, 1953. Class 6.

Republic Steel Corporation, assignee: *See*— Truscon Steel Company.

Resistant Lubricant Co. of America: *See*— Schwager, Henry A., Jr.

Revlon Products Corporation, New York, N. Y. Moisture balm. 579,621, Sept. 8; Serial No. 624,971, published June 2, 1953. Class 51.

Rheinische Röhrenwerke Aktiengesellschaft, Mulheim an der Ruhr, Germany. Metal roof frame works. 579,737, Sept. 8; Serial No. 634,862, published June 9, 1953. Class 12.

Richards, George, & Company Limited, Broadheath, near Manchester, England. Combined boring and facing machines. 579,740, Sept. 8; Serial No. 635,719, published May 26, 1953. Class 23.

Rimmel, Inc., New York, N. Y. Hand lotion, toilet water, eau de cologne, etc. 579,884, Sept. 8; Serial No. 638,104. Class 51.

Ritter Company, Inc., Rochester, N. Y. Dental and medical equipment stands. 579,839, Sept. 8; Serial No. 641,466, published June 23, 1953. Class 44.

Roberts Manufacturing Co., Cleburne, Tex. Electrically operated oscillating evaporative room cooler. 579,707, Sept. 8; Serial No. 633,076, published June 9, 1953. Class 34.

Robertshaw-Fulton Controls Company, Greensburg, Pa. Electric igniters for fuel burners, electric switches, and valves. 579,633, Sept. 8; Serial No. 626,415, published June 16, 1953. Class 21.

Robertshaw-Fulton Controls Company, Greensburg, Pa. Combined pilot and main burner gas valves. 579,634, Sept. 8; Serial No. 626,420, published June 9, 1953. Class 34.

Rootie Kazootie, Inc., New York, N. Y. Toy hand puppets. 579,850, Sept. 8; Serial No. 644,689, published June 16, 1953. Class 22.

Rosedale Knitting Company, Reading, Pa. Ladies' crepe hosiery. 579,545, Sept. 8; Serial No. 602,570, published June 2, 1953. Class 39.

Rosenblatt and Kahn, Inc., New York, N. Y. Children's coats, snow suits, suits, etc. 579,631, Sept. 8; Serial No. 626,266, published May 26, 1953. Class 39.

Royal Oporto Wine Company: *See*— Companhia Geral da Agricultura das Vinhas do Alto Douro.

Rubin-Meltzer Company, New York, N. Y. Cotton knit underwear. 579,696, Sept. 8; Serial No. 631,579, published June 9, 1953. Class 39.

S and B Millinery Company, Toledo, Ohio. Women's millinery. 579,524, Sept. 8; Serial No. 551,315, published June 2, 1953. Class 39.

Sachs, Frank, doing business as Dominettes Company, assignor to C. W. Neuschwanger, Detroit, Mich. Game. 579,724, Sept. 8; Serial No. 634,119, published June 16, 1953. Class 22.

Saco-Lowell Shops, Boston, Mass. Textile machinery. 579,686, Sept. 8; Serial No. 631,024, published May 26, 1953. Class 23.

Sampson, Arnold, doing business under the name and style of E-Z Est Products, Oakland, Calif. Preparation for removing tarnish from brass, etc. 579,759, Sept. 8; Serial No. 636,740, published June 9, 1953. Class 52.

Sanborn, Geo. W., & Son, Astoria, Oreg., to Alaska Pacific Salmon Company, Seattle, Wash. Canned salmon. 93,468, re-renewed Sept. 16, 1953. O. G. Sept. 8. Class 46.

Sanford Sales Corporation, New York, N. Y. Cathartic and laxative preparation. 579,872, Sept. 8; Serial No. 619,852. Class 18.

Sanitary Knitting Company, Grand Rapids, Mich. Infants', children's, boys', and girls' knit outerwear. 579,655, Sept. 8; Serial No. 628,830, published May 26, 1953. Class 39.

Saperstein, A. M., Chicago, Ill. Entertainment services. 579,858, Sept. 8; Serial No. 639,783, published June 16, 1953. Class 107.

Schaub, Fred H., Engineering Co., Chicago, Ill. Linings of resinous character to protect metallic surfaces. 579,726, Sept. 8; Serial No. 634,218, published May 26, 1953. Class 12.

Schenley Laboratories, Inc., New York, N. Y. Sedative and muscular relaxant. 579,649, Sept. 8; Serial No. 627,966, published June 16, 1953. Class 18.

Schering Corporation, Bloomfield, N. J. Antihistamine preparation. 579,803, Sept. 8; Serial No. 639,718, published June 9, 1953. Class 18.

Scherl & Roth, Inc., Cleveland, Ohio. Violas, cellos, and string basses. 579,877, Sept. 8; Serial No. 626,702. Class 36.

Schwager, Henry A., Jr., doing business as Resistant Lubricant Co. of America, Royal Oak, Mich. Industrial hand cream. 579,569, Sept. 8; Serial No. 614,168, published June 9, 1953. Class 51.

Schwartz, Wm., & Co., Inc., Philadelphia, Pa. Children's jackets, coats, and pants. 579,721, Sept. 8; Serial No. 634,005, published May 26, 1953. Class 39.

Schwarz, Samuel, Newark, to Victoria Chemical Co., Bloomfield, N. J. Insecticide and vermin-destroyer. 73,302, Apr. 6, 1909. New certificate. O. G. Sept. 8. Class 6.

Searle, G. D., & Co., assignee: *See*—
Congress Drug Corporation.

Sears, Roebuck and Co., Chicago, Ill., to Western Tablet & Stationery Corporation, Dayton, Ohio. Yellow second sheets and stationery. 307,835, renewed Nov. 7, 1953. O. G. Sept. 8. Class 37.

Sears, Roebuck and Co., Chicago, Ill. Overalls. 579,551, Sept. 8; Serial No. 605,272, published May 19, 1953. Class 39.

Sentinel Manufacturing Co.: *See*—
McMahon, Robert E.

Sentinel (Shrewsbury) Limited, Shrewsbury, Shropshire, England. Internal combustion engines, portable engines, carburettors, machine tools, etc. 579,539, Sept. 8; Serial No. 600,086, published May 19, 1953. Class 23.

Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc. Medicinal preparation. 579,777, Sept. 8; Serial No. 638,017, published June 9, 1953. Class 18.

Sheehy, Frances, Portland, Oreg., to Longines-Wittnauer Watch Co., Inc., New York, N. Y. Symphonic theme sheet. 307,087, renewed Oct. 17, 1953. O. G. Sept. 8. Class 38.

Shelby Spring Hinge Company, The, Shelby, Ohio. Floor hinges, door hinges, push plates, etc. 579,769, Sept. 8; Serial No. 637,195, published June 9, 1953. Class 13.

Siegel Bros. Garment Corp., by Leeds Ltd. Coats, Inc., New York, N. Y. Woolen and worsted fabrics. 408,652, Aug. 22, 1944. Republished Sept. 8. Class 42.

Siegel Bros. Kiki Maid Koats Inc., by Leeds Ltd. Coats, Inc., New York, N. Y. Woolen piece goods. 337,974, Aug. 25, 1936. Republished Sept. 8. Class 42.

Siegel Bros. Kiki Maid Koats, Inc., by Leeds Ltd. Coats, Inc., New York, N. Y. Piece goods. 342,687, Jan. 26, 1937. Republished Sept. 8. Class 42.

Siegel Brothers Kiki Maid Koats, Inc., by Leeds Ltd. Coats, Inc., New York, N. Y. Ladies' and misses' coats and suits. 403,826, Oct. 19, 1943. Republished Sept. 8. Class 39.

Singer Manufacturing Company, The, Elizabeth, N. J. 579,652, Sept. 8. Electronic bonding machines, vacuum tube oscillators for use with electronic bonding machines, electro-mechanical drives, etc., Serial No. 628,557, published May 12, 1953, Class 21; toy sewing machines, Serial No. 628,558, published May 12, 1953, Class 22; family and commercial sewing machines; darning, embroidery, article fastening, etc., machines, etc., Serial No. 628,559, published June 2, 1953, Class 23; books, pamphlets, educational leaflets, etc., Serial No. 628,560, published Apr. 7, 1953, Class 38; hand sewing needles, Serial No. 628,561, published May 5, 1953, Class 40. (Consolidated certificate, Classes 21, 22, 23, 38, and 40.)

Singer, Morris, to Soft-Lite Lens Company, Inc., New York, N. Y. Actinometers, altimeters, altiscopes, etc. 91,909, re-renewed June 3, 1953. O. G. Sept. 8. Class 26.

Sinykin, J. L., Minneapolis, Minn. Perfume, toilet water, talcum powder, etc. 579,531, Sept. 8; Serial No. 597,469, published Mar. 18, 1952. Class 51.

Skiparel Mfg. Co.: *See*—
Denham, James E.

Slomons Laboratories, Inc., Long Island City, N. Y. Non-inflammable cleaning fluid. 579,714, Sept. 8. Serial No. 633,638, published June 2, 1953. Class 52.

Smith, Albert L., doing business as Smith Tape Recording Co., Abilene, Tex. Magnetic recording tape. 579,868, Sept. 8; Serial No. 614,962. Class 21.

Smith Tape Recording Co.: *See*—
Smith, Albert L.

Smithson, Arthur D., doing business under the assumed name of Smithson Cold Storage Door Repair Service, Syracuse, N. Y. Cold storage door gaskets. 579,372, Sept. 8; Serial No. 616,516, published June 9, 1953. Class 35.

Smithson Cold Storage Door Repair Service: *See*—
Smithson, Arthur D.

Smitsvonk N. V., The Hague and Rijswijk (Z.-H.), Netherlands. Parts of low tension capacitive automotive ignition apparatus. 579,568, Sept. 8; Serial No. 614,016, published June 9, 1953. Class 21.

Snyder Mfg. Co., Philadelphia, Pa. Television antenna. 579,682, Sept. 8; Serial No. 630,099, published June 23, 1953. Class 21.

Society of Chemical Industry in Basle, Basel, Switzerland, to Ciba Pharmaceutical Products, Inc., Summit, N. J. Pharmaceutical product. 92,732, re-renewed July 22, 1953. O. G. Sept. 8. Class 18.

Soft-Lite Lens Company, Inc.: *See*—
Singer, Morris.

Springs Cotton Mills, The: *See*—
Mandel & Coben.

Squirt Company, The, assignee: *See*—
Towsley, Inc.

Staber's for Beauty, Los Angeles, Calif. Wave cream, hair dressing, and oil hair dressing. 426,410, Dec. 24, 1946. Republished Sept. 8. Class 51.

Standard Laboratories, Inc.: *See*—
Marcy Company, The.

Stanton, E. J., & Son, Inc., Vernon, Calif. Hard and soft wood paneling. 579,635, Sept. 8; Serial No. 626,477, published June 9, 1953. Class 12.

Stapf, Charles H., Prescott, Wis., to Prescott Spinner Manufacturing Co., St. Paul, Minn. Fish-hooks. 93,613, re-renewed Sept. 30, 1953. O. G. Sept. 8. Class 22.

Sta-Rite Ginnie-Lou, Inc.: *See*—
Sta-Rite Hair Pin Company.

Sta-Rite Hair Pin Company, to Sta-Rite Ginnie-Lou, Inc., Shelbyville, Ill. Hairpins. 305,785, renewed Aug. 22, 1953. O. G. Sept. 8. Class 40.

Stein, Hall & Company, Inc., New York, N. Y. Tapioca flour. 579,844, Sept. 8; Serial No. 643,440, published June 16, 1953. Class 46.

Sterling Engine Co., Buffalo, N. Y. Internal combustion engines. 579,677. Sept. 8; Serial No. 629,920, published May 26, 1953. Class 23.

Stern-Siegman Prins Company, Kansas City, Mo. Women's and girls' coats. 304,386, renewed July 4, 1953. O. G. Sept. 8. Class 39.

Stifel, J. L., & Sons, Wheeling, W. Va., to J. L. Stifel & Sons, Inc., Wheeling, W. Va., and New York, N. Y. Cotton piece goods. 92,506, re-renewed July 15, 1953. O. G. Sept. 8. Class 42.

Stifel, J. L., & Sons, Inc. *See*—
Stifel, J. L., & Sons.

Strong Cobb & Company, Inc., Cleveland, Ohio. Sedative preparation. 579,804, Sept. 8; Serial No. 639,790, published June 9, 1953. Class 18.

Strong Cobb & Company, Inc., Cleveland, Ohio. Sedative Preparation. 579,805, Sept. 8; Serial No. 639,792, published June 9, 1953. Class 18.

Strouse-Baer Company, Inc., The, Baltimore, Md. Overalls. 579,611, Sept. 8; Serial No. 624,213, published May 19, 1953. Class 39.

Surmass Leather Company, Philadelphia, Pa. Leather. 306,655, Sept. 26, 1933. Republished Sept. 8. Class 1.

Swivelier Company, Inc., New York, N. Y. Swivel joints whereby adjacent ends of arms for electrical lighting fixtures are joined. 579,607, Sept. 8; Serial No. 623,921, published June 9, 1953. Class 21.

Telex, Inc., St. Paul, Minn. Headset consisting of earphones used in connection with radio or other sound reproducing apparatus. 579,599. Sept. 8; Serial No. 621,922, published June 23, 1953. Class 21.

Tennessee Products & Chemical Corporation, Nashville, Tenn. Acetic acid, benzoic acid, hydrochloric acid, etc. 579,699, Sept. 8; Serial No. 632,456, published June 23, 1953. Class 6.

Thompson, Paul J., doing business as Patco Mfg. Co., Philadelphia, Pa. Hot air conduits and registers. 579,766, Sept. 8; Serial No. 637,093, published June 16, 1953. Class 34.

Thompson, Paul J., doing business as Patco Mfg. Co., Philadelphia, Pa. Hot air conduits and registers. 579,767, Sept. 8; Serial No. 637,094, published June 2, 1953. Class 34.

Tiki Originals, New York, N. Y. Women's and girls' hats. 579,719, Sept. 8; Serial No. 633,890, published June 2, 1953. Class 39.

Toni Company, The: *See*—
Gillette Company, The.

Tower, A. J., Company: *See*—
Carter, J. F., Company.

Towsley, Inc., Indianapolis, Ind., assignor, by mesne assignments, to The Squirt Company, Beverly Hills, Calif. Kit containing laundry equipment. 579,528, Sept. 8; Serial No. 590,242, published June 24, 1952. Class 50.

Triangle Manufacturing Company: *See*—
Mason, William G.

Troxler-Lynch Hosiery Company, Springfield, Ill. Ladies' and misses' hosiery. 579,732, Sept. 8; Serial No. 634,667, published June 9, 1953. Class 39.

Tru-Aid Products Co.: *See*—
Tru-Aid Products Company.

Tru-Aid Products Company, also known as Tru-Aid Products Co., Philadelphia, Pa. Denture cushions. 579,835, Sept. 8; Serial No. 641,103, published June 23, 1953. Class 44.

Truscon Steel Company, Youngstown, assignor to Republic Steel Corporation, Cleveland, Ohio. Windows. 579,669, Sept. 8; Serial No. 629,266, published June 9, 1953. Class 12.

Tun Tavern Detachment, Marine Corps League, Philadelphia, Pa. Providing welfare and social services to veterans in hospitals, etc. 579,855, Sept. 8; Serial No. 631,450, published June 16, 1953. Class 100.

Turner, Claude H., doing business under the style name of Atlanta Boat Works, Atlanta, Ga. Power driven boats. 579,760, Sept. 8; Serial No. 636,751, published June 16, 1953. Class 19.

Union Fork and Hoe Company, The, Columbus, Ohio. Hand-operated field, garden, and lawn tools. 579,862, Sept. 8; Serial No. 565,388. Class 23.

United Aircraft Products, Inc., Dayton, Ohio. Oil tanks for aircraft. 579,577, Sept. 8; Serial No. 618,136, published June 16, 1953. Class 19.

United States Bedding Company, St. Paul, Minn. Bed springs. 301,936, renewed Mar. 21, 1953. O. G. Sept. 8. Class 32.

United States Rubber Company: *See*—
Gillette Rubber Company.
United States Rubber Products, Inc.

United States Rubber Products, Inc., to United States Rubber Company, New York, N. Y. Rubber thread. 305,804, renewed Aug. 22, 1953. O. G. Sept. 8. Class 43.

United States Steel Corporation: *See*—
American Sheet and Tin Plate Company.

United Wallpaper, Inc., Chicago, Ill. Color pigments for use in the manufacture of paints and inks. 579,702, Sept. 8; Serial No. 632,639, published June 23, 1953. Class 6.

Upjohn Company, The, Kalamazoo, Mich. Water-insoluble salt of penicillin. 579,752, Sept. 8; Serial No. 636,101, published June 9, 1953. Class 18.

Van Cleef Bros., Inc., Chicago, Ill. Sponge rubber weatherstrip. 579,700, Sept. 8; Serial No. 632,458, published June 9, 1953. Class 12.

Van Doorne's Aanhangwagenfabriek N. V., Eindhoven, Netherlands. Automotive vehicles. 579,683, Sept. 8; Serial No. 630,360, published June 23, 1953. Class 19.

Vanity Fair Corporation, Waltham, Mass., now by change of name, Hartford Battery Corporation. Storage batteries. 579,592, Sept. 8; Serial No. 620,943, published June 9, 1953. Class 21.

Veident Company, The: *See*—
Bartells, Raymond O.

Victoria Chemical Co.: *See*—
Schwarz, Samuel.

Victrylite Candle Company, Oshkosh, Wis. Candlesticks and candle lamps. 579,636, Sept. 8; Serial No. 626,836, published June 9, 1953. Class 34.

Victrylite Candle Company, Oshkosh, Wis. Candle-holding receptacles. 579,879, Sept. 8; Serial No. 628,589. Class 34.

Vineland Poultry Laboratories, Landis Township, Cumberland County, N. J. Poultry biologics, medicines, and pharmaceutical preparations. 579,571, Sept. 8; Serial No. 615,359, published Dec. 9, 1952. Class 18.

Visible Package Sales Corp., Chicago, Ill. Flexible strips for tying pliable bags. 579,739, Sept. 8; Serial No. 635,073, published May 26, 1953. Class 7.

Vitalic Battery Company, Inc., Dallas, Tex. Storage batteries. 579,878, Sept. 8; Serial No. 627,477. Class 21.

Von Frankel-Trester Hosiery Co., Chicago, Ill. Women's and children's hosiery. 579,698, Sept. 8; Serial No. 631,768, published May 26, 1953. Class 39.

Von Schrader Manufacturing Company, Racine, Wis. Dry cleaning powder. 579,606, Sept. 8; Serial No. 623,522, published May 19, 1953. Class 52.

Wacker-Chemie G. m. b. H.: *See*—
Wacker, Dr. Alexander, Gesellschaft für Elektrochemische Industrie, G. m. b. H.

Wacker, Dr. Alexander, Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany, now by change of name Wacker-Chemie G. m. b. H. Acetylcellulose. 579,746, Sept. 8; Serial No. 635,574, published June 9, 1953. Class 1.

Walker, Charles, & Co. Limited, Swinegate, Leeds, England. Belting and strap leather. 579,811–13, Sept 8; Serial Nos. 640,136–8, published June 23, 1953. Class 35.

Walker, Hiram, & Sons Inc.: *See*—
Walker, Hiram, & Sons, Limited.

Walker, Hiram, & Sons, Limited, Walkerville, Ontario, Canada, to Hiram Walker & Sons Inc., Peoria, Ill. Gin. 304,242, renewed June 27, 1953. O. G. Sept. 8. Class 49.

Walker, Hiram, & Sons, Limited, Walkerville, Ontario, Canada, to Hiram Walker & Sons Inc., Peoria, Ill. Whisky. 304,243–4, renewed June 27, 1953. O. G. Sept. 8. Class 49.

Waller, Irvin, doing business as Waller Machine Products Co., Chicago, Ill. Diamond abrasive compound. 579,733, Sept. 8; Serial No. 634,718, published June 2, 1953. Class 4.

Waller Machine Products Co.: *See*—
Waller, Irvin.

Wampole, Henry K., & Company, Incorporated, Philadelphia, Pa. Antacid, digestant, carminative. 307,105, renewed Oct. 17, 1953. O. G. Sept. 8. Class 18.

Wasco Engineering Corporation, New York, N. Y. Boiler protective and rust eradicator. 308,055, renewed Nov. 21, 1953. O. G. Sept. 8. Class 52.

Washington Co-Operative Farmers Association, Seattle, Wash. Dressed turkeys. 579,873, Sept. 8; Serial No. 620,865. Class 46.

Wass Food Products, Chicago, Ill. Barbecue sauce. 579,882, Sept. 8; Serial No. 634,719. Class 46.

Waters, Robert W., and W. G. Heiner, receivers for The National Radiator Corporation, to The National Radiator Company, Johnstown, Pa. Heat exchange apparatus. 304,066, renewed June 20, 1953. O. G. Sept. 8. Class 34.

Weather Products Corporation, Providence and Warwick, R. I. De-humidifiers. 579,693, Sept. 8; Serial No. 631,512, published June 9, 1953. Class 34.

Webster Manufacturing Co.: *See*—
Webster, Marvin.

Webster, Marvin, doing business as a sole proprietorship known as Webster Manufacturing Co., San Francisco, Calif. Radio antennas. 579,598, Sept. 8; Serial No. 621,739, published June 23, 1953. Class 21.

Wella Corporation, The, New York, N. Y. Cuticle nippers; manicure nipper shears, manicure scissors, etc. 579,810, Sept. 8; Serial No. 640,025, published June 23, 1953. Class 44.

Western Tablet & Stationery Corporation: *See*—
Sears, Roebuck and Co.

Westgate-California Tuna Packing Company: *See*—
Westgate Sea Products Company.

Westgate Sea Products Company, to Westgate-California Tuna Packing Company, San Diego, Calif. Canned food product. 304,753, renewed July 18, 1953. O. G. Sept. 8. Class 46.

Wheel Goods Corporation, Minneapolis, Minn. Bicycles. 579,845–6, Sept. 8; Serial Nos. 643,576–7, published June 23, 1953. Class 19.

White, S. S., Dental Manufacturing Company, The, Philadelphia, Pa. Abrasive cutting powder and abrasive cleaning powder. 579,558, Sept. 8; Serial No. 608,728, published June 2, 1953. Class 4.

Wier, Lela S., doing business as Wonda Products Co., Jackson, Miss. Laxative powder and preparations for the treatment of simple neuralgia, etc. 579,706, Sept. 8; Serial No. 633,025, published June 23, 1953. Class 18.

Wilkin, A. S., Limited, Newcastle-upon-Tyne, England. Assortments of sweetmeats. 304,801, renewed July 18, 1953. O. G. Sept. 8. Class 46.

Willard Storage Battery Company, Cleveland, Ohio. Storage batteries. 579,784, Sept. 8; Serial No. 638,561, published June 16, 1953. Class 21.

Willard and Ware, Yakima, Wash. Trout bait. 579,729, Sept. 8; Serial No. 634,389, published June 16, 1953. Class 22.

Williams & Humbert, to Williams & Humbert Limited, London, England. Sherry wine. 307,304, renewed Oct. 24, 1953. O. G. Sept. 8. Class 47.

Williams & Humbert Limited: *See*—
Williams & Humbert.

Wind-O-Brik Corporation, Chicago, Ill. Ventilator units. 579,861, Sept. 8; Serial No. 540,754. Class 34.
Winders & Geist, Inc., Lincoln, Nebr. Conduits for electrical wiring. 579,807, Sept. 8; Serial No. 639,913, published June 16, 1953. Class 21.
Wonda Products Co.: *See*—
Wier, Lela S.
Wood Shovel and Tool Company, The, Piqua, Ohio. Hand tools. 579,575, Sept. 8; Serial No. 617,221, published May 26, 1953. Class 23.
Yale Belt Corp., New York, N. Y. Ladies', men's, and boys' belts. 579,646, Sept. 8; Serial No. 627,656, published May 19, 1953. Class 39.
Yaleco Rubber Company, Inc., New Haven, Conn. Waterproof diaper covers. 579,593, Sept. 8; Serial No. 621,043, published May 26, 1953. Class 39.
Yardley & Company Limited, London, England. Face powders, and face creams. 304,033, renewed June 20, 1953. O. G. Sept. 8. Class 51.
Yarnell, John D., Edmonds, Wash. Separate screens. 579,757, Sept. 8; Serial No. 636,668, published June 9, 1953. Class 13.
Zion Industries, Inc., Zion, Ill. Candles. 579,874, Sept. 8; Serial No. 621,244. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Acetylcellulose. Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H. 579,746, Sept. 8; Serial No. 635,574, published June 9, 1953.
Cattle semen. Oregon Dairy Breeders Association. 579,624, Sept. 8; Serial No. 625,617, published June 2, 1953.
Cellulose gum. Hercules Powder Company. 579,771, Sept. 8; Serial No. 637,311, published June 16, 1953.
Charcoal briquets. Ray Industries, Inc. 579,716, Sept. 8; Serial No. 633,735, published June 2, 1953.
Coal. Pittsburgh Consolidation Coal Company. 579,773, Sept. 8; Serial No. 637,460, published June 9, 1953.
Hemi-cellulose material. Masonite Corporation. 579,595, Sept. 8; Serial No. 621,409, published June 9, 1953.
Lacquer type parting agent. Garan Chemical Corporation. 579,730, Sept. 8; Serial No. 634,406, published June 2, 1953.
Leather. Surpass Leather Company. 306,655, Sept. 26, 1933. Republished Sept. 8.
Limestone, Finely ground high calcium. Acme Limestone Company. 579,875, Sept. 8; Serial No. 621,851.
Modeling clay, clay flour, moist clay, etc. American Art Clay Company. 579,564, Sept. 8; Serial No. 610,253, published June 2, 1953.
Modeling clays. Luster Art Company. 579,536, Sept. 8; Serial No. 598,660, published June 16, 1953.
Natural and synthetic expanded and non-expanded rubber and resin materials. Expanded Rubber Company Limited. 579,555, Sept. 8; Serial No. 608,415, published June 16, 1953.
Natural and synthetic expanded and non-expanded rubber and resin materials. Expanded Rubber Company Limited. 579,560, Sept. 8; Serial No. 608,968, published June 16, 1953.
Peat, peat moss, and blended potting soil. Perry Peat Company. 579,690, Sept. 8; Serial No. 631,374, published June 9, 1953.
Peat, peat moss, and humus. Michigan Peat, Inc. 579,529, Sept. 8; Serial No. 592,918, published June 16, 1953.
Potting soil and humus for house plants. C. E. Hullhorst. 579,742, Sept. 8; Serial No. 635,308, published June 9, 1953.

CLASS 4

Abrasive compound, Diamond. I. Waller. 579,733, Sept. 8; Serial No. 634,718, published June 2, 1953.
Abrasive cutting powder and abrasive cleaning powder. The S. S. White Dental Manufacturing Company. 579,558, Sept. 8; Serial No. 608,728, published June 2, 1953.
Liquid preparation for cleaning and polishing footwear. J. A. Murena. 579,552, Sept. 8; Serial No. 605,433, published June 9, 1953.
Polish. Barton Manufacturing Company. 579,587, Sept. 8; Serial No. 620,295, published May 12, 1953.
Polish, Floor and furniture. S. C. Johnson & Son, Inc. 579,768, Sept. 8; Serial No. 637,131, published June 2, 1953.

CLASS 5

Adhesive tapes, Moisture sensitive. The Gummed Products Company. 579,591, Sept. 8; Serial No. 620,916, published June 9, 1953.
Adhesively coated paper tape. Nashua Corporation. 579,753, Sept. 8; Serial No. 636,142, published June 9, 1953.
Adhesives. Certofix Limited. 579,711, Sept. 8; Serial No. 633,349, published June 9, 1953.
Gummed tape. McLaurin-Jones Co. 306,550, renewed Sept. 26, 1953. O. G. Sept. 8.

CLASS 6

Acetic acid, benzoic acid, hydrochloric acid, etc. Tennessee Products & Chemical Corporation. 579,699, Sept. 8; Serial No. 632,456, published June 23, 1953.
Aluminum oxide. Godfrey L. Cabot, Inc. 579,789, Sept. 8; Serial No. 638,827, published June 23, 1953.
Chemical compounds. J. H. Fink. 579,559, Sept. 8; Serial No. 608,864, published June 23, 1953.
Chemical preparations. Kali Manufacturing Company. 579,630, Sept. 8; Serial No. 626,169, published June 2, 1953.
Chemical products. Cassella Farbwerke Mainkur. 579,787, Sept. 8; Serial No. 638,691, published June 23, 1953.
Color pigments for use in the manufacture of paints and inks. United Wallpaper, Inc. 579,702, Sept. 8; Serial No. 632,639, published June 23, 1953.
Coloring dyes. Fred Fear & Co. 579,838, Sept. 8; Serial No. 641,287, published June 23, 1953.
Dyestuffs, lakes, and chemical products suitable for dyeing purposes. Geigy Company, Inc. 307,766, renewed Oct. 31, 1953. O. G. Sept. 8.
Insecticide and vermin-destroyer. S. Schwarz. 73,302, Apr. 6, 1909. New certificate. O. G. Sept. 8.
Leather dressing, preservative, and softening composition. Manufacturing Laboratories, Inc. 579,748, Sept. 8; Serial No. 635,602, published June 16, 1953.
Manganese dioxide. American Metallic Chemicals Corp. 579,750, Sept. 8; Serial No. 635,734, published June 16, 1953.
Microcrystalline wax. Bareco Oil Company. 579,618, Sept. 8; Serial No. 624,774, published June 23, 1953.
Organic acid group. The Pacific Lumber Company. 579,778, Sept. 8; Serial No. 638,211, published June 16, 1953.
Phosphorus; compositions containing phosphorus. The American Agricultural Chemical Company. 579,537, Sept. 8; Serial No. 599,210, published June 23, 1953.
Phosphorus; compositions containing phosphorus. The American Agricultural Chemical Company. 579,538, Sept. 8; Serial No. 599,212, published June 23, 1953.
Plasticiser. Cambridge Industries Company. 579,612, Sept. 8; Serial No. 624,223, published June 23, 1953.
Preparation for the extermination of roaches, water bugs, etc. Red Dot Laboratories. 579,533, Sept. 8; Serial No. 597,842, published June 23, 1953.
Sodium salt. The Pacific Lumber Company. 579,779, Sept. 8; Serial No. 638,212, published June 16, 1953.
Solvents and solvent mixtures. Dodge & Olcott, Inc. 579,678, Sept. 8; Serial No. 629,934, published June 2, 1953.
Synthetic resins and solutions thereof. Reichhold Chemicals, Inc. 579,774, Sept. 8; Serial No. 637,721, published June 23, 1953.
Synthetic resins and solutions thereof. Reichhold Chemicals, Inc. 579,775, Sept. 8; Serial No. 637,723, published June 23, 1953.

CLASS 7

Flexible stripe for tying pliable bags. Visible Package Sales Corp. 579,739, Sept. 8; Serial No. 635,073, published May 26, 1953.

CLASS 10

Fertilisers. Atkins & Durbrow, Inc. 575,319,, June 2, 1953. Amended. O. G. Sept. 8.
Manure. The Davey Tree Expert Company. 579,534, Sept.8; Serial No. 597,946, published May 27, 1952.

CLASS 12

Architectural glass. Pittsburgh Corning Corporation. 579,526, Sept. 8; Serial No. 569,013, published June 16, 1953.
Concrete articles. Braithwaite & Co. Engineers Limited. 579,604, Sept. 8; Serial No. 623,123, published Apr. 7, 1953.
Crushed refractory grains; mortars; and cements. Corhart Refractories Company. 579,615, Sept. 8; Serial No. 624,470, published May 19, 1953.
Fire-brick, Plastic. The Inland Fire Brick Company. 579,578, Sept. 8; Serial No. 618,263, published June 9, 1953.
Flooring, Yellow pine and hardwood, and hardwood and pine millwork. Columbus Lumber Company. 579,600, Sept. 8; Serial No. 622,201, published June 9, 1953.
Jointing material. Duratube & Wire Limited. 579,785, Sept. 8; Serial No. 638,572, published June 2, 1953.
Lime for construction purposes. Diamond Springs Lime Company. 579,680, Sept. 8; Serial No. 629,960, published June 9, 1953.
Linings of resinous character to protect metallic surfaces. Fred H. Schaub Engineering Co. 579,726, Sept. 8; Serial No. 634,218, published May 26, 1953.

Mouldings, doors and door frames, etc. Lemieux Bros., assignor to Lemieux Bros., Inc. 579,562, Sept. 8; Serial No. 609,246, published Nov. 25, 1952.
Plastic surface material. Marsh Wall Products, Inc. 579,627–8, Sept. 8; Serial No. 625,682–3, published May 26, 1953.
Plywood. Douglas Fir Plywood Association. 579,715, Sept. 8; Serial No. 633,720, published June 9, 1953.
Plywood. Douglas Fir Plywood Association. 579,860, Sept. 8; Serial No. 626,448, published June 2, 1953.
Roof frame works, Metal. Rheinische Röhrenwerke Aktiengesellschaft. 579,737, Sept. 8; Serial No. 634,862, published June 9, 1953.
Tile, Interior decorative wall. Peerless Plastics. 579,783, Sept. 8; Serial No. 638,550, published June 2, 1953.
Tile, Plastic. Plastic Engineering, Inc. 579,629, Sept. 8; Serial No. 626,114, published Feb. 3, 1953.
Underlayment material in the nature of a plastic synthetic resin containing aggregate and filler materials. Miracle Adhesives Corporation. 579,557, Sept. 8; Serial No. 608,712, published June 2, 1953.
Varnishes, paint enamels, lacquers, etc. Pratt & Lambert-Inc. 358,177, June 28, 1938. Republished Sept. 8.
Weatherstrip, Sponge rubber. Van Cleef Bros., Inc. 579,700, Sept. 8; Serial No. 632,458, published June 9, 1953.
Windows. Truscon Steel Company. 579,669, Sept. 8; Serial No. 629,266, published June 9, 1953.
Wood paneling, Hard and soft. E. J. Stanton & Son, Inc. 579,635, Sept. 8; Serial No. 626,477, published June 9, 1953.

CLASS 13

Bolts. The Colorado Fuel and Iron Corporation. 579,791, Sept. 8; Serial No. 638,836, published June 2, 1953.
Cooking and baking utensils. Chicago Metallic Mfg. Co. 579,790, Sept. 8; Serial No. 638,834, published June 2, 1953.
Fluid conduit couplings. Pennsylvania Flexible Metallic Tubing Company. 579,625–6, Sept. 8; Serial No. 625,622–3, published June 9, 1953.
Hinges, Floor, door hinges, push plates, etc. The Shelby Spring Hinge Company. 579,769, Sept. 8; Serial No. 637,195, published June 9, 1953.
Key ring, chain, and emblem, Combination. A. D. Karpoff. 579,776, Sept. 8; Serial No. 637,996, published June 9, 1953.
Metal tubing. General Motors Corporation. 579,794, Sept. 8; Serial No. 639,034, published June 2, 1953.
Porcelain enamelled pressed sheet metal sinks, etc. Mullins Manufacturing Corporation. 444,788, Sept. 8; Serial No. 506,052, published Feb. 18, 1947.
Screening, Tinned bronze wire insect. Pacific Wire Products Company. 300,414, Jan. 17, 1933. Republished Sept. 8.
Screens, Separate. J. D. Yarnell. 579,757, Sept. 8; Serial No. 636,668, published June 9, 1953.
Valves, Fluid control. Apex (Trinidad) Oilfields, Limited. 579,745, Sept. 8; Serial No. 635,572, published June 9, 1953.

CLASS 14

Sheets and plates—namely, tin and terne plates. American Sheet and Tin Plate Company. 306,323, renewed Sept. 12, 1953. O. G. Sept. 8.
Steel rods, Threaded. La Salle Steel Company. 579,535, Sept. 8; Serial No. 598,192, published Oct. 28, 1952.

CLASS 15

Gasoline. American Oil Company. 579,567, Sept. 8; Serial No. 613,663, published June 2, 1953.
Oils, Motor. Petroleum Specialties, Inc. 579,585, Sept. 8; Serial No. 619,353, published May 12, 1952.
Petroleum wax composition. Moore & Munger. 579,688, Sept. 8; Serial No. 631,215, published May 19, 1953.
Refined, semi-refined and unrefined petroleum oils and fractions for fuel, power, lighting, etc., purposes, and paraffin waxes. Esso Standard Oil Company. 579,797, Sept. 8; Serial No. 639,163, published June 9, 1953.

CLASS 16

Paint enamels, varnishes, primers, and thinners (solvents). Pratt & Lambert, Inc. 230,485, July 26, 1927. Republished Sept. 8.
Varnishes. Pratt & Lambert, Inc. 115,999, Mar. 27, 1917. Republished Sept. 8.
Varnishes, paint enamels, lacquers, etc. Pratt & Lambert, Inc. 358,177, June 28, 1938. Republished Sept. 8.
Varnishes, surfacers, primers. Pratt & Lambert, Inc. 230,486, July 26, 1927. Republished Sept. 8.

CLASS 18

Adrenocorticotropic hormone. Ciba Limited. 579,671, Sept. 8; Serial No. 629,357, published June 23, 1953.
Antacid, digestant, carminative. Henry K. Wampole & Company, Incorporated. 307,105, renewed Oct. 17, 1953. O. G. Sept. 8.
Antacid preparation. Congress Drug Corporation. 579,561, Sept. 8; Serial No. 609,231, published June 17, 1952.
Antihistamine preparation. Schering Corporation. 579,803, Sept. 8; Serial No. 639,718, published June 9, 1953.
Antihistaminic, anaesthetic, antibiotic water soluble cream. Premo Pharmaceutical Laboratories, Inc. 579,727, Sept. 8; Serial No. 634,338, published Feb. 3, 1953.
Antiseptic douche powder and antiseptic vaginal suppository. E. M. Lewin. 579,590, Sept. 8; Serial No. 620,811, published Sept. 23, 1952.
Biologics, medicines, and pharmaceutical preparations, Poultry. Vineland Poultry Laboratories. 579,571, Sept. 8; Serial No. 615,359, published Dec. 9, 1952.
Cathartic and laxative preparation. Sanford Sales Corporation. 579,872, Sept. 8; Serial No. 619,852.
Chemical-pharmaceutical preparations. Cilag Aktiengesellschaft. 579,608, Sept. 8; Serial No. 623,947, published May 26, 1953.
Cholagogue. The Marcy Company. 92,088, re-renewed June 17, 1953. O. G. Sept. 8.
Cough syrup. International Minerals & Chemical Corporation. 579,809, Sept. 8; Serial No. 639,996, published June 9, 1953.
Food supplement, Fortified. D. B. Randal. 579,570, Sept. 8; Serial No. 614,787, published June 2, 1953.
Food supplement, High protein. H. B. Bishop. 579,720, Sept. 8; Serial No. 633,967, published May 19, 1953.
Glucuronolactone, sodium glucuronate and potassium glucuronate, etc. Corn Products Refining Company. 579,641, Sept. 8; Serial No. 627,118, published June 16, 1953.
Hematinic and vitamin preparation. Live Food Products Co. 579,645, Sept. 8; Serial No. 627,449, published June 9, 1953.
Laxative powder and preparations for the treatment of simple neuralgia, etc. L. S. Wier. 579,706, Sept. 8; Serial No. 633,025, published June 23, 1953.
Medicinal preparation. Abbott Laboratories. 579,801, Sept. 8; Serial No. 639,359, published June 9, 1953.
Medicinal preparation. The Mara Laboratories, Inc. 579,814, Sept. 8; Serial No. 640,183, published June 9, 1953.
Medicinal preparation. Sharp & Dohme Incorporated. 579,777, Sept. 8; Serial No. 638,017, published June 9, 1953.
Medicinal preparations. Duo-Way Pharmacal Corporation. 579,806, Sept. 8; Serial No. 639,986, published June 9, 1953.
Medicine as a relief for patients suffering from hay fever, etc. Burl Laboratories, Inc. 579,675, Sept. 8; Serial No. 629,835, published June 16, 1953.
Medicine—namely, a barbiturate-containing sedative, tranquillizer and muscle relaxant. Reed & Carnrick. 579,815, Sept. 8; Serial No. 640,360, published June 16, 1953.
Normal saline solution. Baxter Laboratories, Inc. 579,694, Sept. 7; Serial No. 631,532, published Apr. 14, 1953.
Ointment. E. Des Noyers. 579,793, Sept. 8; Serial No. 638,949, published May 19, 1953.
Pharmaceutical product. Society of Chemical Industry in Basle. 92,732, re-renewed July 22, 1953. O. G. Sept. 8.
Preparation for external application. K. K. Bandy. 579,734, Sept. 8; Serial No. 634,726, published June 9, 1953.
Preparation used in the treatment of high blood pressure. Barlow-Maney Laboratories. 579,580, Sept. 8; Serial No. 618,478, published June 9, 1953.
Salt of penicillin, Water-insoluble. The Upjohn Company. 579,752, Sept. 8; Serial No. 636,101, published June 9, 1953.
Sedative and hypnotic. Abbott Laboratories. 579,800, Sept. 8; Serial No. 639,358, published May 26, 1953.
Sedative and muscular relaxant. Schenley Laboratories, Inc. 579,649, Sept. 8; Serial No. 627,966, published June 16, 1953.
Sedative preparation. Strong Cobb & Company, Inc. 579,804, Sept. 8; Serial No. 639,790, published June 9, 1953.
Sedative preparation. Strong Cobb & Company, Inc. 579,805, Sept. 8; Serial No. 639,792, published June 9, 1953.
Theophylline salt. Chemo Puro Manufacturing Corporation. 579,713, Sept. 8; Serial No. 633,608, published June 2, 1953.

CLASS 19

Bicycles. Wheel Goods Corporation. 579,845–6, Sept. 8; Serial Nos. 643,576–7, published June 23, 1953.
Boats, Power driven. C. H. Turner. 579,760, Sept. 8; Serial No. 636,751, published June 16, 1953.
Shock absorbing devices and parts thereof for vehicles. General Motors Corporation. 579,620, Sept. 8; Serial No. 624,882, published June 16, 1953.
Tanks for aircraft, Oil. United Aircraft Products, Inc. 579,577, Sept. 8; Serial No. 618,136, published June 16, 1953.
Trailers, House. Mid-States Corp. 579,847, Sept. 8; Serial No. 643,698, published June 23, 1953.
Trailers, House. Mid-States Corp. 579,848, Sept. 8; Serial No. 643,700, published June 23, 1953.
Truck bodies, Automotive; farm wagons; trailers. C. R. Golay. 579,603, Sept. 8; Serial No. 622,590, published June 23, 1953.
Vehicles, Automotive. Van Doorne's Aanhangwagenfabriek N. V. 579,683, Sept. 8; Serial No. 630,360, published June 23, 1953.

CLASS 21

Antenna, Television. Snyder Mfg. Co. 579,682, Sept. 8; Serial No. 630,099, published June 23, 1953.
Antennas, Radio. M. Webster. 579,598, Sept. 8; Serial No. 621,739, published June 23, 1953.
Batteries, Storage. Vanity Fair Corporation. 579,592, Sept. 8; Serial No. 620,943, published June 9, 1953.
Batteries, Storage. Vitalic Battery Company, Inc. 579,878, Sept. 8; Serial No. 627,477.
Batteries, Storage. Willard Storage Battery Company. 579,784, Sept. 8; Serial No. 638,561, published June 16, 1953.
Battery charger units, rectifier cells, transformers, and resistance units, etc. Fansteel Metallurgical Corporation. 579,831, Sept. 8; Serial No. 640,557, published June 23, 1953.
Clear acrylic spray used to waterproof, rustproof and electrically insulate metallic surfaces. Dupli-Color Products Co., Inc. 579,610, Sept. 8; Serial No. 624,082, published June 9, 1953.
Conduits for electrical wiring. Winders & Geist, Inc. 579,807, Sept. 8; Serial No. 639,913, published June 16, 1953.
Corrosion inhibiting anode assemblies. R. E. McMahon. 579,602, Sept. 8; Serial No. 631,489, published June 9, 1953.
Electric motors, Fractional horsepower. Getz Bros. & Co. 576,695, Sept. 8; Serial No. 631,555, published June 16, 1953.
Electric tools, Portable, hand supported. Ingersoll-Rand Company. 579,758, Sept. 8; Serial No. 636,710, published June 23, 1953.
Electrical insulating plastic sheet material. Minnesota Mining and Manufacturing Company. 579,685, Sept. 8; Serial No. 630,944, published June 23, 1953.
Electrical motors, electrical generators, and components thereof. Electric Indicator Company, Inc. 579,806, Sept. 8; Serial No. 639,814, published June 16, 1953.
Electrically operated vaporizing unit. Home Maintenance Service, Inc. 579,654, Sept. 8; Serial No. 628,694, published June 9, 1953.
Electronic bonding machines, vacuum tube oscillators for use with electronic bonding machines, electro-mechanical drives, etc. The Singer Manufacturing Company. 579,652, Sept. 8; Serial No. 628,557, published May 12, 1953. (Consolidated certificate, Classes 21, 22, 23, 38, and 40.)
Fans, electric. L. M. Cohen. 579,780, Sept. 8; Serial No. 638,289, published June 23, 1953.
Headset consisting of earphones used in connection with radio or other sound reproducing apparatus. Telex, Inc. 579,599, Sept. 8; Serial No. 621,922, published June 23, 1953.
Igniters for fuel burners, Electric, electric switches, and valves. Robertshaw-Fulton Controls Company. 579,633, Sept. 8; Serial No. 626,415, published June 16, 1953.
Lamps and shades therefor, Electric table and boudoir. June Lamp Manufacturing Company. 579,829–30, Sept. 8; Serial Nos. 640,461–2, published June 23, 1953.
Lamps, Electrical table, pinup lamps, floor lamps, etc. C. N. Burman Co. 579,744, Sept. 8; Serial No. 635,517, published June 23, 1953.
Parts of low tension capacitive automotive ignition apparatus. Smitsvonk N. V. 579,568, Sept. 8; Serial No. 614,016, published June 9, 1953.
Permanent magnets. The Indiana Steel Products Company. 579 609, Sept. 8; Serial No. 623,960, published June 16, 1953.
Recording tape, Magnetic. A. L. Smith. 579,868, Sept. 8; Serial No. 614,962.
Resistors. Erie Resistor Corporation. 579,653, Sept. 8; Serial No. 628,683, published June 16, 1953.
Swivel joints whereby adjacent ends of arms for electrical lighting fixtures are joined. Swivelier Company, Inc. 579,607, Sept. 8; Serial No. 623,921, published June 9, 1953.
Television broadcast receivers, and radio and phonograph combinations incorporating television broadcast receivers. General Electric Company. 579,553, Sept. 8; Serial No. 605,515, published June 23, 1953.
Tubes, Electron, and for thermal time delay tubes. Bendix Aviation Corporation. 579,554, Sept. 8; Serial No. 608,298, published June 23, 1953.
Vacuum cleaner, Electrically operated. R. H. Persons. 579,597, Sept. 8; Serial No. 621,575, published May 26, 1953.

CLASS 22

Bait, Trout. Willard and Ware. 579,729, Sept. 8; Serial No. 634,389, published June 16, 1953.
Bowling pins. Monumental Manufacturing Corporation. 579,851–2, Sept. 8; Serial Nos. 644,773–4, published June 16, 1953.
Doll clothing. C & F Doll Fashions. 579,849, Sept. 8; Serial No. 644,540, published June 16, 1953.
Exercising apparatus. J. E. Denham. 579,616, Sept. 8; Serial No. 624,678, published June 16, 1953.
Fish-hooks. C. H. Stapf. 93,613, re-renewed Sept. 30, 1953. O. G. Sept. 8.
Fishing rod clamp. Horizon Fishing Rod Servicer Co. 579,640, Sept. 8; Serial No. 627,065, published June 16, 1953.
Fishing rods. James Heddon's Sons. 305,165, renewed Aug. 8, 1953. O. G. Sept. 8.
Game. F. Sachs. 579,724, Sept. 8; Serial No. 634,119, published June 16, 1953.
Toy hand puppets. Rootie Kazootie, Inc. 579,850, Sept. 8; Serial No. 644,689, published June 16, 1953.
Toy pistol. Louis Marx & Co., Inc. 579,843, Sept. 8; Serial No. 643,396, published June 23, 1953.
Toy sewing machines. The Singer Manufacturing Company. 579,652, Sept. 8; Serial No. 628,558, published May 12, 1953. Consolidated certificate, classes 21, 22, 23, 38, and 40.
Toys and games, Molded plastic. Helenhart Novelty Corporation. 579,542, Sept. 8; Serial No. 600,434, published June 23, 1953.
Toys, games, and sporting goods. Best & Co. Inc. 306,339, renewed Sept. 19, 1953. O. G. Sept. 8.
Toys, Tiny tot. Jaymar Specialty Company. 579,673–4, Sept. 8; Serial Nos. 629,732–3, published June 16, 1953.

CLASS 23

Automobile frame straighteners, lifting jacks, and axle and wheel straightening presses. Bee Line Manufacturing Company. 303,943, renewed June 13, 1953. O. G. Sept. 8.
Automotive pistons and machines. Tom Killian, Inc. 579,684, Sept. 8; Serial No. 630,938, published May 26, 1953.
Boring and facing machines, Combined. George Richards & Company Limited. 579,749, Sept. 8; Serial No. 635,719, published May 26, 1953.
Brush cutting machines. E. L. Caldwell & Sons. 579,638, Sept. 8; Serial No. 626,977, published May 26, 1953.
Carburetors and fuel pumps and parts thereof. Carter Carburetor Corporation. 579,525, Sept. 8; Serial No. 559,211, published June 2, 1953.
Carburetors and fuel pumps, and special wrenches, etc. Carter Carburetor Corporation. 579,548, Sept. 8; Serial No. 603,474, published May 26, 1953.
Carburetors, vacuum tanks for use with carburetors, tractor governors, and lawn mowers. Kingston Products Corporation. 579,589, Sept. 8; Serial No. 620,511, published Feb. 17, 1953.
Carpet sweepers and parts thereof. Bissell Carpet Sweeper Company. 305,183, renewed Aug. 8, 1953. O. G. Sept. 8.
Conveying apparatus and parts thereof. Clark Tructractor Company. 304,721, renewed July 18, 1953. O. G. Sept. 8.
Cultivators, Rotary. Cultro, Inc. 579,540, Sept. 8; Serial No. 600,163, published May 26, 1953.
Cutlery. McCrory Stores Corporation. 305,946–7, renewed Aug. 29, 1953. O. G. Sept. 8.
Engines, Internal combustion, portable engines, carburetors, machine tools, etc. Sentinel (Shrewsbury) Limited. 579,539, Sept. 8; Serial No. 600,086, published May 19, 1953.
Hoist, Stationary hydraulic automobile. Globe Hoist Company. 579,880, Sept. 8; Serial No. 630,191.
Internal combustion engines. Sterling Engine Co. 579,677, Sept. 8; Serial No. 629,920, published May 26, 1953.
Machine for grinding or mixing cattle feed. Lancaster Engineering Corporation. 579,866, Sept. 8; Serial No. 606,712.
Machines for grinding or mixing cattle feed. Lancaster Engineering Corporation. 579,865, Sept. 8; Serial No. 606,710.
Machines for removing grease from metal articles, machines for washing metal articles, etc. Randall Manufacturing Company, Inc. 579,689, Sept. 8; Serial No. 631,311, published May 26, 1953.
Mine skips. Lake Shore Engineering Company. 579,556, Sept. 8; Serial No. 608,420, published May 19, 1953.
Power units. Hillman Motor Car Company Limited. 579,643, Sept. 8; Serial No. 627,187, published May 26, 1953.
Sewing machines and parts thereof and attachments therefor. Consolidated Sewing Machine Corp. 579,795, Sept. 8; Serial No. 639,108, published May 26, 1953.
Sewing machines, Family and commercial; darning, embroidery, article fastening, etc., machines, etc. The Singer Manufacturing Company. 579,652, Sept. 8; Serial No. 628,559, published June 2, 1953. Consolidated certificate, classes 21, 22, 23, 38, and 40.
Sump pump. W. G. Mason. 579,550, Sept. 8; Serial No. 604,647, published May 26, 1953.
Textile machinery. Saco-Lowell Shops. 579,686, Sept. 8; Serial No. 631,024, published May 26, 1953.
Tools, Hand. The Wood Shovel and Tool Company. 579,575, Sept. 8; Serial No. 617,221, published May 26, 1953.
Tools, Hand-operated field, garden, and lawn. The Union Fork and Hoe Company. 579,862, Sept. 8; Serial No. 565,388.
Wrenches, Box, combination box and open end wrenches, etc. Lectrolite Corporation. 579,565, Sept. 8; Serial No. 612,405, published May 26, 1953.

CLASS 26

Actinometers, altimeters, altiscopes, etc. M. Singer. 91,909, re-renewed June 3, 1953. O. G. Sept. 8.

Laboratory equipment. Precision Scientific Co. 401,577, May 25, 1943. Republished Sept. 8.
Unitary apparatus for determining moisture content of materials, and comprising an electronic control box, burettes, drying tube, etc. Precision Scientific Co. 432,441, Sept. 2, 1947. Republished Sept. 8.

CLASS 29

Brushes, Artists', Chinese re-etching brushes, glass fibre re-etching brushes, etc. Powers Chemco, Inc. 579,574, Sept. 8; Serial No. 617,160, published June 24, 1952.

CLASS 30

Delftware and chinaware of all kinds. Aktieselskabet Aluminia. 40,572, re-renewed June 9, 1953. O. G. Sept. 8.

CLASS 32

Bed springs. United States Bedding Company. 301,936, renewed Mar. 21, 1953. O. G. Sept. 8.

CLASS 34

Candle-holding receptacles. Victrylite Candle Company. 579,879, Sept. 8; Serial No. 628,589.
Candlesticks and candle lamps. Victrylite Candle Company. 579,636, Sept. 8; Serial No. 626,836, published June 9, 1953.
Coal burning furnaces. Dominion Foundry Company. 579,864, Sept. 8; Serial No. 600,881.
Conduits and registers, Hot air. P. J. Thompson. 579,766, Sept. 8; Serial No. 637,093, published June 16, 1953.
Conduits and registers, Hot air. P. J. Thompson. 579,767, Sept. 8; Serial No. 637,094, published June 2, 1953.
Cooking equipment. Nathan Straus-Duparquet, Inc. 579,547, Sept. 8; Serial No. 603,263, published June 9, 1953.
De-humidifiers. Weather Products Corporation. 579,693, Sept. 8; Serial No. 631,512, published June 9, 1953.
Fans, or blowers, Ventilating. Indola N. V. 579,648, Sept. 8; Serial No. 627,884, published June 2, 1953.
Fans, Ventilating, and blowers. Dijam Enterprises Inc. 579,870, Sept. 8; Serial No. 616,763.
Fans, Wall ventilating, stock barn fans, poultry house fans, etc. American Machine and Metals, Inc. 579,883, Sept. 8; Serial No. 635,514.
Furnaces, Hot air. R. R. Dupler. 579,741, Sept. 8; Serial No. 635,127, published June 2, 1953.
Heat exchange apparatus. R. W. Waters and W. G. Heiner. 304,066, renewed June 20, 1953. O. G. Sept. 8.
Heater, Water. Bell & Gossett Company. 579,863, Sept. 8; Serial No. 569,594.
Moisture vent tubes. E. W. Cornwall. 579,581, Sept. 8; Serial No. 618,787, published June 2, 1953.
Pilot and main burner gas valves, Combined. Robertshaw-Fulton Controls Company. 579,634, Sept. 8; Serial No. 626,420, published June 9, 1953.
Preheaters, cookers, and coolers. Food Machinery and Chemical Corporation. 579,543, Sept. 8; Serial No. 601,260, published Apr. 22, 1952.
Room cooler, Electrically operated oscillating evaporative. Roberts Manufacturing Co. 579,707, Sept. 8; Serial No. 633,076, published June 9, 1953.
Stoves, Gas, ovens, and parts thereof. Noma Electric Corporation. 579,622, Sept. 8; Serial No. 625,078, published June 16, 1953.
Ventilator units. Wind-O-Brik Corporation. 579,861, Sept. 8; Serial No. 540,754.

CLASS 35

Belting and strap leather. Charles Walker & Co. Limited. 579,811–13, Sept. 8; Serial Nos. 640,136–8, published June 23, 1953.
Fiber packing. Henry Crossley (Packings) Limited. 579,842, Sept. 8; Serial No. 642,952, published June 9, 1953.
Gaskets, Cold storage door. A. D. Smithson. 579,572, Sept. 8; Serial No. 616,516, published June 9, 1953.
Hose, Lawn. Quaker Rubber Corporation. 579,765, Sept. 8; Serial No. 637,084, published June 9, 1953.
Hose, Lawn, and conveyor belting. Quaker Rubber Corporation. 579,837, Sept. 8; Serial No. 641,208, published June 16, 1953.
Hose, Plastic. Quaker Pacific Rubber Company. 579,840, Sept. 8; Serial No. 642,302, published June 23, 1953.
Hose, Plastic garden. Apex Tire & Rubber Co. 579,833, Sept. 8; Serial No. 640,664, published June 9, 1953.
Packing—namely, pump packing, etc. Mission Manufacturing Company. 579,763–4, Sept. 8; Serial Nos. 637,068–9, published June 23, 1953.
Tires and tubes, Bicycle. Gillette Rubber Company. 306,247, renewed Sept. 12, 1953. O. G. Sept. 8.
Tires, Automobile and truck pneumatic. Laher Spring and Tire Corporation. 579,613, Sept. 8; Serial No. 624,279, published June 16, 1953.
Tires, Pneumatic, inner tubes and repair and treading materials therefor. The Armstrong Rubber Company. 579,717, Sept. 8; Serial No. 633,748, published June 9, 1953.

CLASS 36

Harmonicas. Wm. Kratt Co. 579,637, Sept. 8; Serial No. 626,946, published June 16, 1953.

Musical bird calls. R. W. Eddy. 579,722, Sept. 8; Serial No. 634,035, published June 23, 1953.
Phonograph records, Grooved. Alan Record Co., Inc. 579,755, Sept. 8; Serial No. 636,401, published June 16, 1953.
Pianos. The Aeolian Organ and Music Company. 24,728, May 15, 1894. Republished Sept. 8.
Pianos and automatic players therefor. The Aeolian Company. 112,461, Sept. 12, 1916. Republished Sept. 8.
Violas, cellos, and string basses. Scheri & Roth, Inc. 579,877, Sept. 8; Serial No. 626,702.

CLASS 37

Fountain-pens and nibs therefor. L. & C. Hardtmuth. 93,442, re-renewed Sept. 16, 1953. O. G. Sept. 8.
Yellow second sheets and stationery. Sears, Roebuck and Co. 307,835, renewed Nov. 7, 1953. O. G. Sept. 8.

CLASS 38

Books, pamphlets, educational leaflets, etc. The Singer Manufacturing Company. 579,652, Sept. 8; Serial No. 628,560, published Apr. 7, 1953.
Decalcomania transfers. The Durochrome Co. 328,216, Sept. 17, 1935. Republished Sept. 8.
Periodicals. Good Humor Corporation of America. 301,205, renewed Feb. 21, 1953. O. G. Sept. 8.
Symphonic theme sheet. F. Sheehy. 307,087, renewed Oct. 17, 1953. O. G. Sept. 8.

CLASS 39

Aprons, Household, garment pockets, and children's sun suits. Kaydette Mfg. Corp. 579,716, Sept. 8; Serial No. 633,772, published June 2, 1953.
Belts. Jonathan Belt Co. Incorporated. 579,735, Sept. 8; Serial No. 634,788, published May 26, 1953.
Belts, Ladies', men's, and boys'. Yale Belt Corp. 579,646, Sept. 8; Serial No. 627,636, published May 19, 1953.
Clothing. Iselin-Jefferson Company, Inc. 579,743, Sept. 8; Serial No. 633,310, published May 19, 1953.
Clothing, Oiled. J. F. Carter Company. 94,058, re-renewed Nov. 4, 1953. O. G. Sept. 8.
Coats and suits, Ladies' and misses'. Siegel Brothers Kiki Maid Koats, Inc. 403,826, Oct. 19, 1943. Republished Sept. 8.
Coats, snow suits, suits, etc., Children's. Rosenblatt and Kahn, Inc. 579,631, Sept. 8; Serial No. 626,266, published May 26, 1953.
Coats, suits, skirts, hats, etc. Mandel & Cohen. 303,762, renewed June 6, 1953. O. G. Sept. 8.
Coats, Women's and girls'. Stern-Siegman Prins Company. 304,386, renewed July 4, 1953. O. G. Sept. 8.
Diaper covers, Waterproof. Yaleco Rubber Company, Inc. 579,593, Sept. 8; Serial No. 621,043, published May 26, 1953.
Hats and hat bodies, Ladies' and girls'. Merrimac Hat Corporation. 444,789, Sept. 8; Serial No. 507,993, published June 22, 1948.
Hats, Women's and girls'. Tiki Originals. 579,719, Sept. 8; Serial No. 633,890, published June 2, 1953.
Hosiery. B-Z-B Knitting Co. 301,515, renewed Mar. 7, 1953. O. G. Sept. 8.
Hosiery. Wm. B. Coleman Co., Incorporated. 579,770, Sept. 8; Serial No. 637,242, published June 9, 1953.
Hosiery. Julius Kayser & Co. 579,761, Sept. 8; Serial No. 636,852, published June 9, 1953.
Hosiery, Ladies'. Chadbourn Hosiery Mills, Incorporated. 579,691, Sept. 8; Serial No. 631,467, published May 26, 1953.
Hosiery, Ladies'. K. R. Gaubeart. 579,740, Sept. 8; Serial No. 635,085, published June 9, 1953.
Hosiery, Ladies' and misses'. Troxler-Lynch Hosiery Company. 579,732, Sept. 8; Serial No. 634,667, published June 9, 1953.
Hosiery, Ladies' crepe. Rosedale Knitting Company. 579,545, Sept. 8; Serial No. 602,570, published June 2, 1953.
Hosiery, Men's, women's, and children's. U. B. Buchanan. 579,781, Sept. 8; Serial No. 638,399, published June 2, 1953.
Hosiery, Men's, women's, and children's. Chapman & Sons Hosiery Company. 579,782, Sept. 8; Serial No. 638,401, published June 2, 1953.
Hosiery, Women's. Chadbourn Hosiery Mills, Incorporated. 579,623, Sept. 8; Serial No. 625,193, published May 26, 1953.
Hosiery, Women's. Hanes Hosiery Mills Company. 579,747, Sept. 8; Serial No. 635,594, published May 26, 1953.
Hosiery, Women's. M. K. M. Hosiery Mills, Inc. 579,576, Sept. 8; Serial No. 617,762, published June 2, 1953.
Hosiery, Women's. Phoenix Hosiery Company. 579,780, Sept. 8; Serial No. 639,339, published June 9, 1953.
Hosiery, Women's and children's. Von Frankel-Trester Hosiery Co. 579,698, Sept. 8; Serial No. 631,768, published May 26, 1953.
Hosiery, Women's full-fashioned. J. R. Beaton Company, Inc. 579,632, Sept. 8; Serial No. 626,298, published June 9, 1953.
Jackets and coats, Men's and boys'. Durable Sportwear Company, Inc. 579,614, Sept. 8; Serial No. 624,332, published May 26, 1953.

Jackets, coats, and pants, Children's. Wm. Schwartz & Co., Inc. 579,721, Sept. 8; Serial No. 634,005, published May 26, 1953.
Millinery, Women's. S and B Millinery Company. 579,524, Sept. 8; Serial No. 551,315, published June 2, 1953.
Outerwear, Infants', children's, boys', and girls' knit. Sanitary Knitting Company. 579,655, Sept. 8; Serial No. 628,830, published May 26, 1953.
Overalls. Sears, Roebuck and Co. 579,551, Sept. 8; Serial No. 605,272, published May 19, 1953.
Overalls. The Strouse-Baer Company, Inc. 579,611, Sept. 8; Serial No. 624,213, published May 19, 1953.
Overalls, bib overalls, overall jackets, etc., Men's and boys' waistband. The H. D. Lee Company, Incorporated. 579,701, Sept. 8; Serial No. 632,482, published May 26, 1953.
Overalls, jumpers, trousers, etc. Pool Manufacturing Company. 306,146, renewed Sept. 12, 1953. O. G. Sept. 8.
Overcoats, coats, vests, etc., Men's and boys'. Namm's, Inc. 579,544, Sept. 8; Serial No. 602,465, published June 2, 1953.
Pajamas, Ladies' and men's. Lubin-Weeker Co., Inc. 579,723, Sept. 8; Serial No. 634,048, published June 9, 1953.
Raincoats, Ladies', and ladies' coats. N. J. Lawrence. 579,681, Sept. 8; Serial No. 630,086, published June 9, 1953.
Shoes and slippers. The Juvenile Shoe Corporation of America. 306,508, renewed Sept. 19, 1953. O. G. Sept. 8.
Shoes, Children's. Harsfeld's, Inc. 307,820, renewed Nov. 7, 1953. O. G. Sept. 8.
Shoes, Children's. Harsfeld's, Inc. 307,822, renewed Nov. 7, 1953. O. G. Sept. 8.
Stockings, Lady's. Mojud Hosiery Co., Inc. 579,796, Sept. 8; Serial No. 639,140, published June 2, 1953.
Stockings, Men's and boys'. Joseph Black & Sons Company. 579,731, Sept. 8; Serial No. 634,448, published June 9, 1953.
Suits, sportcoats, slacks, topcoats, etc., Men's. Pincus Bros. Incorporated. 579,666, Sept. 8; Serial No. 629,121, published May 26, 1953.
Suits, sportcoats, slacks, topcoats, etc., Men's. Pincus Bros. Incorporated. 579,667, Sept. 8; Serial No. 629,122, published May 19, 1953.
Sweaters and basque shirts, Men's knitted. Lord Jeff Knitting Company, Incorporated. 579,596, Sept. 8; Serial No. 621,522, published May 26, 1953.
Underwear, Cotton knit. Rubin-Meltzer Company. 579,696, Sept. 8; Serial No. 631,579, published June 9, 1953.
Underwear, Men's and children's knit. The Parsons & Baker Co. 308,312, renewed Nov. 28, 1953. O. G. Sept. 8.
Uniforms, Navy. Lovisi Bros. 579,728, Sept. 8; Serial No. 634,376, published May 26, 1953.

CLASS 40

Hairpins. Sta-Rite Hair Pin Company. 305,785, renewed Aug 22, 1953. O. G. Sept. 8.
Needles, Hand sewing. The Singer Manufacturing Company. 579,652, Sept. 8; Serial No. 628,561, published May 5, 1953.

CLASS 42

Carpets and rugs. Archibald Holmes & Son. 579,573, Sept. 8; Serial No. 616,709, published Mar. 11, 1952.
Fabrics, Woolen and worsted. Siegel Bros. Garment Corp. 408,652. Aug. 22, 1944. Republished Sept. 8.
Piece goods. Siegel Bros. Kiki Maid Koats, Inc. 342,687, Jan. 26, 1937. Republished Sept. 8.
Piece goods, Cotton. J. L. Stifel & Sons. 92,506, re-renewed July 15, 1953. O. G. Sept. 8.
Piece goods, Knitted. Ideal Mills, Inc. 579,672, Sept. 8; Serial No. 629,370, published Dec. 23, 1952.
Piece goods, Woolen. Siegel Bros. Kiki Maid Koats, Inc. 337,974, Aug. 25, 1936. Republished Sept. 8.

CLASS 43

Thread, Rubber. United States Rubber Products, Inc. 305,804, renewed Aug. 22, 1953. O. G. Sept. 8.
Thread, Sewing. Lily Mill and Power Company. 305,781, renewed Aug. 22, 1953. O. G. Sept. 8.

CLASS 44

Adhesive bandages, antiseptic applicators, antiseptic swabs, etc. Medical Supply Company. 579,605, Sept. 8; Serial No. 623,423, published June 2, 1953.
Anesthesia administering parts. Galleher, Incorporated. 579,792, Sept. 8; Serial No. 638,844, published June 16, 1953.
Artificial respiration apparatus. Conitech, Ltd. 579,703, Sept. 8; Serial No. 632,663, published June 23, 1953.
Artificial teeth. American Porcelain Tooth Company Ltd. 579,710, Sept. 8; Serial No. 633,293, published June 2, 1953.
Biopsy punches and components thereof, and surgical electrodes. American Cystoscope Makers, Inc. 579,819, Sept. 8; Serial No. 640,376, published June 23, 1953.
Bladder evacuators. American Cystoscope Makers, Inc. 579,826, Sept. 8; Serial No. 640,383, published June 23, 1953.
Cuticle nippers; manicure nipper shears, manicure scissors, etc. The Wells Corporation. 579,610, Sept. 8; Serial No. 640,025, published June 23, 1953.
Dental and medical equipment stands. Ritter Company, Inc. 579,839, Sept. 8; Serial No. 641,466, published June 23, 1953.
Dental impression material, Elastic. The L. D. Caulk Company. 579,836, Sept. 8; Serial No. 641,122, published June 23, 1953.
Denture cushions. Tru-Aid Products Company. 579,835, Sept. 8; Serial No. 641,105, published June 23, 1953.
Denture relining pads. W. E. Faxon. 579,541, Sept. 8; Serial No. 600,377, published June 9, 1953.
Device for subcutaneous implantation of antibiotic-containing pellets into young animals. Commercial Solvents Corporation. 579,706, Sept. 8; Serial No. 633,102, published June 23, 1953.
Diving gear—that is, respiratory apparatus. La Spirotechnique. 579,527, Sept. 8; Serial No. 589,454, published June 16, 1953.
Elastic roller bandages. H. L. Keiser. 579,832, Sept. 8; Serial No. 640,636, published June 23, 1953.
Electrical treatment machine for the stimulation of muscles. Medco Products Co. 579,679, Sept. 8; Serial No. 629,951, published June 2, 1953.
Endoscopic instruments. American Cystoscope Makers, Inc. 579,656–62, Sept. 8; Serial Nos. 628,892–8, published June 23, 1953.
Endoscopic instruments. American Cystoscope Makers, Inc. 579,663–4, Sept. 8; Serial Nos. 628,900–1, published June 23, 1953.
Endoscopic instruments. American Cystoscope Makers, Inc. 579,665, Sept. 8; Serial No. 628,903, published June 23, 1953.
Endoscopic instruments. American Cystoscope Makers, Inc. 579,818, Sept. 8; Serial No. 640,375, published June 23, 1953.
Endoscopic instruments. American Cystoscope Makers, Inc. 579,823–5, Sept. 8; Serial Nos. 640,380–2, published June 23, 1953.
Endoscopic instruments. American Cystoscope Makers, Inc. 579,827—8, Sept. 8; Serial No. 640,384—5, published June 23, 1953.
General diagnostic X-ray power tube and control units, etc. Continental X-ray Corporation. 579,704, Sept. 8; Serial No. 632,773, published June 2, 1953.
Health heat lamp, Combined ultra-violet and infra red. L. B. Modell. 579,772, Sept. 8; Serial No. 637,386, published June 2, 1953.
Hypodermic device, Gun-like. Mattox and Moore, Inc. 579,650, Sept. 8; Serial No. 628,218, published June 2, 1953.
Infusion sets. Mead, Johnson & Company. 579,738, Sept. 8; Serial No. 634,986, published June 16, 1953.
Liner for artificial dentures. R. O. Bartella. 579,712, Sept. 8; Serial No. 633,603, published June 23, 1953.
Permanent waving kits, Home. The Gillette Company. 579,798, Sept. 8; Serial No. 639,221, published June 23, 1953.
Stockings for use by persons having varicose veins. La Gaine Scandale. 579,687, Sept. 8; Serial No. 631,210, published June 23, 1953.
Surgical and medical body supports. L. Cameto. 579,644, Sept. 8; Serial No. 627,320, published June 16, 1953.
Surgical dressings, adhesive plasters, adhesive bandage, etc. The American White Cross Laboratories, Inc. 579,566, Sept. 8; Serial No. 613,316, published June 16, 1953.
Surgical electrode units. American Cystoscope Makers, Inc. 579,820, Sept. 8; Serial No. 640,377, published June 23, 1953.
Surgical electrodes. American Cystoscope Makers, Inc. 579,821–2. Sept. 8; Serial Nos. 640,378–9, published June 23, 1953.
Surgical operating tables. Air Reduction Company, Incorporated. 579,642, Sept. 8; Serial No. 627,163, published June 2, 1953.
Sutures and ligatures. Ethicon Suture Laboratories Incorporated. 579,802, Sept. 8; Serial No. 639,364, published June 23, 1953.
Syringe, Hypodermic. Bristol Laboratories Inc. 579,670, Sept. 8; Serial No. 629,347, published June 16, 1953.
Tubal insufflators; apparatus for converting compressed or liquefied carbon dioxide into solid carbon dioxide. Kidde Manufacturing Co., Inc. 579,582–3. Sept. 8; Serial Nos. 619,088–9, published June 9, 1953.
Ureteral forceps. American Cystoscope Makers, Inc. 579,816, Sept. 8; Serial No. 640,372, published June 23, 1953.
Ureteral stone removing forceps. American Cystoscope Makers, Inc. 579,817, Sept. 8; Serial No. 640,373, published June 23, 1953.
X-ray machines. A. S. Aloe Company. 579,617, Sept. 8; Serial No. 624,769, published June 2, 1953.

CLASS 45

Mineral water. A. H. Gregg. 306,290, renewed Sept. 12, 1953. O. G. Sept. 8.

CLASS 46

Assortments of sweetmeats. A. S. Wilkin, Limited. 304,801, renewed July 18, 1953. O. G. Sept. 8.

Barbecue sauce. Wass Food Products. 579,882, Sept. 8; Serial No. 634,719.
Biscuit. National Biscuit Company. 93,009, re-renewed Aug. 12, 1953. O. G. Sept. 8.
Biscuit. National Biscuit Company. 94,311, re-renewed Nov. 25, 1953. O. G. Sept. 8.
Biscuit. National Biscuit Company. 94,313, re-renewed Nov. 25, 1953. O. G. Sept. 8.
Cakes. D. D. Doolin. 306,005, renewed Aug. 29, 1953. O. G. Sept. 8.
Candies. Zion Industries, Inc. 579,874, Sept. 8; Serial No. 621,244.
Candy. Price Candy Company. 579,647, Sept. 8; Serial No. 627,702, published Nov. 4, 1952.
Candy suckers, Assorted. Chicago Dietetic Supply House, Inc. 579,869, Sept. 8; Serial No. 615,755.
Canned food product. Westgate Sea Products Company. 304,753, renewed July 18, 1953. O. G. Sept. 8.
Canned fruit. Apple Growers Association. 304,232, renewed June 27, 1953. O. G. Sept. 8.
Canned salmon. G. W. Sanborn & Son. 93,468, re-renewed Sept. 16, 1953. O. G. Sept. 8.
Canned vegetables. Dickinson & Co. 306,764, renewed Sept. 26, 1953. O. G. Sept. 8.
Chicken chow mein, chow mein noodles, bean sprouts, etc. Chun King Sales, Inc. 579,754, Sept. 8; Serial No. 636,340, published June 16, 1953.
Coffee. The Goyer Company. 579,876, Sept. 8; Serial No. 625,102.
Coffee and beverage chocolate. Horn & Hardart Baking Co. 579,523, Sept. 8; Serial No. 550,599, published June 9, 1953.
Coffee, tea, molasses, etc. Brewster, Gordon & Co. 101,560, Dec. 29, 1914. Amended. O. G. Sept. 8.
Farinaceous mix. Pillsbury Mills, Inc. 579,871, Sept. 8; Serial No. 618,366.
Flour, Tapioca. Stein, Hall & Company, Inc. 579,844, Sept. 8; Serial No. 643,440, published June 16, 1953.
Food, Dog. Goldblatt Bros., Inc. 308,247, renewed Nov. 28, 1953. O. G. Sept. 8.
Pickles, fruit preserves, sweet and sour relish, honey. Chas. F. Cates & Sons, Inc. 303,711, renewed June 6, 1953. O. G. Sept. 8.
Potato chips, Golden hued. C. M. Grubbs. 579,885, Sept. 8; Serial No. 643,224.
Salami. Winder Meat Company. 579,881, Sept. 8; Serial No. 631,729.
Syrup, Table. W. H. Hatton. 579,579, Sept. 8; Serial No. 618,294, published June 9, 1953.
Turkeys, Dressed. Washington Co-Operative Farmers Association. 579,873, Sept. 8; Serial No. 620,865.
Wheat-flour. New Prague Flouring Mill Company. 92,820, re-renewed July 29, 1953. O. G. Sept. 8.
Wheat-flour, biscuit and crackers, cereal breakfast foods, etc. F. H. Bennett Biscuit Company. 93,417, re-renewed Sept. 16, 1953. O. G. Sept. 8.

CLASS 47

Wine, Sherry. Williams & Humbert. 307,304, renewed Oct. 24, 1953. O. G. Sept. 8.
Wines. Companhia Geral da Agricultura das Vinhas do Alto Douro. 307,437–8, renewed Oct. 24, 1953. O. G. Sept. 8.
Wines. Companhia Geral da Agricultura das Vinhas do Alto Douro. 307,440, renewed Oct. 24, 1953. O. G. Sept. 8.

CLASS 48

Malt beverages. Iroquois Beverage Corporation. 307,461, renewed Oct. 24, 1953. O. G. Sept. 8.

CLASS 49

Gin. Hiram Walker & Sons, Limited. 304,242, renewed June 27, 1953. O. G. Sept. 8.
Whisky. Hiram Walker & Sons, Limited. 304,243–4, renewed June 27, 1953. O. G. Sept. 8.
Whisky, Scotch. Chas. Mackinlay & Company. 307,394, renewed Oct. 24, 1953. O. G. Sept. 8.

CLASS 50

Flat asbestos-cement pallets. Johns-Manville Corporation. 579,651, Sept. 8; Serial No. 628,278, published June 9, 1953.
Kit containing laundry equipment. Towsley, Inc. 579,528, Sept. 8; Serial No. 590,242, published June 24, 1952.
Material in the nature of artificial leather. The Firestone Tire & Rubber Company. 579,788, Sept. 8; Serial No. 638,708, published June 9, 1953.
Packaged set containing a measuring jigger, and a combination ice pick, bottle opener, etc. Modern Sales Company. 579,834, Sept. 8; Serial No. 640,953, published June 9, 1953.
Poultry feeders. James Manufacturing Company. 579,667, Sept. 8; Serial No. 609,802.

CLASS 51

Cold wave solution. Gilda Audrey Products, Inc. 579,584, Sept. 8; Serial No. 619,327, published June 9, 1953.
Cologne deodorant stick. The House for Men, Inc. 579,676, Sept. 8; Serial No. 629,895, published June 9, 1953.
Cosmetics. J. B. Nethercutt. 579,619, Sept. 8; Serial No. 624,793, published June 2, 1953.
Dentifrice. The Lambert Company. 579,841, Sept. 8; Serial No. 642,666, published June 23, 1953.
Face powders, and face creams. Yardley & Company Limited. 304,033, renewed June 20, 1953. O. G. Sept. 8.
Hair oil preparation. The Meanea Company. 579,532, Sept. 8; Serial No. 597,770, published Oct. 7, 1952.
Hand cream, Industrial. H. A. Schwager, Jr. 579,560, Sept. 8; Serial No. 614,166, published June 9, 1953.
Lotion, Hand, toilet water, eau de cologne, etc. Rimmel, Inc. 579,584, Sept. 8; Serial No. 638,104.
Lotion, Sun. Elizabeth Arden Sales Corporation. 579,705, Sept. 8; Serial No. 632,912, published June 9, 1953.
Massage cream, toilet cream, cold cream, etc. S. A. Myrurgia. 192,166, Nov. 25, 1924. Republished Sept. 8.
Moisture balm. Revlon Products Corporation. 579,621, Sept. 8; Serial No. 624,971, published June 2, 1953.
Perfume, cologne, toilet water. Parfumerie Gelle Freres, Societe a Responsabilite Limitee. 579,590, Sept. 8; Serial No. 594,918, published May 26, 1953.
Perfume, toilet water, eau de cologne. D. R. Gothé. 579,697, Sept. 8; Serial No. 631,662, published June 2, 1953.
Perfume, toilet water, talcum powder, etc. J. L. Sinykin. 579,531, Sept. 8; Serial No. 597,469, published Mar. 16, 1952.
Perfumed bath water and bath salts, body deodorants, etc. Lucky Hand Company. 579,668, Sept. 8; Serial No. 629,246, published June 9, 1953.
Perfumes. Belcano Company. 579,546, Sept. 8; Serial No. 602,741, published June 2, 1953.
Perfumes and toilet goods. Neiman-Marcus Company. 579,725, Sept. 8; Serial No. 634,157, published June 2, 1953.
Preparation for the treatment of hair. J. Montenier. 579,601, Sept. 8; Serial No. 622,269, published June 9, 1953.
Scalp and dandruff preparation. N. T. Kadochka. 579,751, Sept. 8; Serial No. 635,770, published June 2, 1953.
Wave cream, hair dressing, and oil hair dressing. Staber's for Beauty. 426,410, Dec. 24, 1946. Republished Sept. 8.
Witch hasel jelly, hair tonic, and cologne water. Kiefer-Steward Company. 579,766, Sept. 8; Serial No. 638,588, published June 2, 1953.

CLASS 52

Boiler protective and rust eradicator. Wasco Engineering Corporation. 308,055, renewed Nov. 21, 1953. O. G. Sept. 8.
Cleaner, Silver. G. N. Coughlan Company. 579,762, Sept. 8; Serial No. 637,036, published June 2, 1953.
Cleaning compound, Metal. Northwest Chemical Co., Inc. 579,602, Sept. 8; Serial No. 622,554, published Feb. 24, 1953.
Cleaning fluid, Non-inflammable. Slomons Laboratories, Inc. 579,714, Sept. 8; Serial No. 633,638, published June 2, 1953.
Cleaning powder. The Gerson-Stewart Corporation Company. 579,563, Sept. 8; Serial No. 610,013, published Mar. 25, 1952.
Cleaning powder, Dry. Von Schrader Manufacturing Company. 579,606, Sept. 8; Serial No. 623,522, published May 19, 1953.
Detergent material. Cooperstown Chemical, Inc. 579,594, Sept. 8; Serial No. 621,356, published June 9, 1953.
Preparation for removing tarnish from brass, etc. A. Sampson. 579,750, Sept. 8; Serial No. 636,740, published June 9, 1953.
Preparations for removing paint and other coatings from metal and other surfaces. Ball Chemical Company. 91,451, May 6, 1913. Republished Sept. 8.
Shampoo. Fairfield Laboratories, Inc. 579,639, Sept. 8; Serial No. 627,055, published June 2, 1953.
Shampoo, Automobile, automobile cooling system cleaner. The Pure Oil Company. 579,549, Sept. 8; Serial No. 604,221, published May 19, 1953.
Soap. E. A. Jones & Co. 339,982, Oct. 27, 1936. Republished Sept. 8.
Soap. Nilda Botanical Garden. 579,709, Sept. 8; Serial No. 633,268, published June 9, 1953.
Soap, Hand. The Lambert Company. 579,736, Sept. 8; Serial No. 634,791, published June 2, 1953.
Soap, Toilet, liquid and cream shampoo, and cleaning preparations. Gaymont Laboratories, Inc. 579,586, Sept. 8; Serial No. 620,154, published June 9, 1953.
Soaps, Toilet. S. A. Myrurgia. 418,370, Dec. 18, 1945. Republished Sept. 8.
Solvent naphtha for dry cleaning, paint solvent and metal cleaning. American Mineral Spirits Company. 579,588, Sept. 8; Serial No. 620,485, published May 19, 1953.

CLASS 100

Providing welfare and social services to veterans in hospitals etc. Tun Tavern Detachment, Marine Corps League. 579,855, Sept. 8; Serial No. 631,450, published June 16, 1953.
Stimulating in its members an interest in charity, good fellowship, and patriotism. The Grand Order of the Sword of Bunker Hill. 580,856, Sept. 8; Serial No. 636,592, published June 16, 1953.

CLASS 101

Furnishing statistical reports on the prices of securities. W. F. Burlingame. 579,886, Sept. 8; Serial No. 540,991.

CLASS 103

Repairing jewelry and mounting precious stones and gems in settings. American Gem Society. 579,859, Sept. 8; Serial No. 547,960, published June 16, 1953.

Tank cleaning service and renting of machines for tank cleaning. Butterworth System, Incorporated. 579,853, Sept. 8; Serial No. 589,423, published June 16, 1953.

CLASS 104

Radio broadcasting services. Mutual Broadcasting System, Inc. 579,854, Sept. 8; Serial No. 612,468, published June 16, 1953.

CLASS 106

Electrolytically treating metal working tools. The Electrolizing Corporation. 579,887, Sept. 8; Serial No. 591,979.

Treating rayon and acetate suiting fabrics. R. W. Bates Piece Dye Works, Inc. 579,857, Sept. 8; Serial No. 637,697, published June 16, 1953.

CLASS 107

Entertainment services. A. M. Saperstein. 579,858, Sept. 8; Serial No. 639,783, published June 16, 1953.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 8TH DAY OF SEPTEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Carroll Dunham Smith Pharmacal Co., assignee: *See*— Neesby, Torben E.

Grisham, William F., Pasadena, Tex. Flow valve. Re. 23,710, Sept. 8.

Neesby, Torben E., assignor, by mesne assignments, to Carroll Dunham Smith Pharmacal Co., New Brunswick, N. J. Stabilized polythionates as medicinal cosmetics. Re. 23,711, Sept. 8.

O'Reilly, Joseph A., El Cerrito, Calif. Combination shirt board and collar protector. Re. 23,712, Sept. 8.

LIST OF PLANT PATENTEES

Dougherty, Harold D., Farmersville, Calif. Peach tree. 1,216, Sept. 8.

LIST OF DESIGN PATENTEES

Adler, Samuel E., assignor to Admiral Corporation, Chicago, Ill. Combination radio-television cabinet control panel. 170,347, Sept. 8.

Admiral Corporation, assignee: *See*— Adler, Samuel E.

Aronov, Hilliard, assignor to Fabric's Inc., Montgomery, Ala. Pillow doll. 170,348, Sept. 8.

Bell Aircraft Corporation, assignee: *See*— Woods, Robert J.

Bell, Louis, Roxbury, Mass. Ear ornament or similar article. 170,349, Sept. 8.

Bourner, Howard L., assignor to Temco, Inc., Nashville, Tenn. Laundry drier. 170,350, Sept. 8.

Breen, Frederick M., Westchester, assignor to Coty, Inc., New York, N. Y. Combined lipstick holder and vanity case or similar article. 170,351, Sept. 8.

Buck, Eugene W., Campbell, assignor of one-third to A. Cano, Santa Clara, Calif. Drill mounting stand. 170,352, Sept. 8.

Cano, Antonio, assignee: *See*— Buck, Eugene W.

Chic Maid Hat Company, Inc., assignee: *See*— Gross, Max.

Coro, Inc., assignee: *See*— Katz, Adolph.

Coty, Inc., assignee: *See*— Breen, Frederick M.

Dryer Company of America, Inc., assignee: *See*— Fine, Milton.

Fabric's Inc., assignee: *See*— Aronov, Hilliard.

Fine, Milton, assignor to Dryer Company of America, Inc., Philadelphia, Pa. Electric hand drier. 170,353, Sept. 8.

Gast, George, assignor to Superior Plastics Inc., Chicago, Ill. Shadow box. 170,354, Sept. 8.

Gross, Max, assignor to Chic Maid Hat Company, Inc., Buffalo, N. Y. Hat. 170,355, Sept. 8.

Harley-Davidson Motor Co., assignee: *See*— Harley, William J.

Harley, William J., assignor to Harley-Davidson Motor Co., Milwaukee, Wis. Motorcycle saddlebag. 170,356, Sept. 8.

Harrington, Gerald D.: *See*— Shakespeare, Henry G., and Harrington.

Hayes, Robert M., Weston, Mass. Child's teether toy. 170,357, Sept. 8.

Hiller Engineering Corporation, Incorporated, assignee: *See*— Hiller, Stanley, Jr.

Hiller, Stanley, Jr., Atherton, assignor to Hiller Engineering Corporation, Incorporated, Redwood City, Calif. Tractor. 170,358, Sept. 8.

Imperial Glass Corporation, assignee: *See*— Smith, French E.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 170,359, Sept. 8.

Levin, Irving, New York, N. Y. Lamp pendant. 170,360, Sept. 8.

Lyons, Edward W., Youngstown, Ohio. Incinerator. 170,361, Sept. 8.

Opler, Edmond, Hinsdale, assignor to World's Finest Chocolate Inc., Chicago, Ill. Candy bar or similar article. 170,362, Sept. 8.

Palma, Joseph, Jr., assignor to Story & Clark Piano Company, Chicago, Ill. Spinet piano or similar article. 170,363, Sept. 8.

Perfection Stove Company, assignee: *See*— Perry, Chester C.

Perry, Chester C., Chagrin Falls, assignor to Perfection Stove Company, Cleveland, Ohio. Heating stove. 170,364, Sept. 8.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a necklace or the like. 170,365, Sept. 8.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a bracelet or the like. 170,366, Sept. 8.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Bracelet or the like. 170,367, Sept. 8.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or the like. 170,368, Sept. 8.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or the like. 170,369, Sept. 8.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 170,370, Sept. 8.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a bracelet or the like. 170,371, Sept. 8.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a bracelet or the like. 170,372, Sept. 8.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Bracelet or the like. 170,373, Sept. 8.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Bracelet or the like. 170,374, Sept. 8.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or the like. 170,375, Sept. 8.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a necklace or the like. 170,376, Sept. 8.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or the like. 170,377, Sept. 8.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or the like. 170,378, Sept. 8.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or the like. 170,379, Sept. 8.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a necklace or the like. 170,380, Sept. 8.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a necklace or the like. 170,381, Sept. 8.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a necklace or the like. 170,382, Sept. 8.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a necklace or the like. 170,383, Sept. 8.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a necklace or the like. 170,384, Sept. 8.
Philippe, Alfred, Scarsdale, N. Y. Earring or the like. 170,385, Sept. 8.
Rohrbach, John J., Rochester, assignor to Shuron Optical Company, Inc., Geneva, N. Y. Combination metal and plastic spectacle front. 170,386, Sept. 8.
Russell, Linus E., Springfield, Ohio. Pump. 170,387, Sept. 8.
Saccone, John V., Lodi, N. J., assignor to Swiss Watch Dial Co., Inc., New York, N. Y. Expansible link chain for a bracelet or the like. 170,388, Sept. 8.
Shakespeare Company, assignee: *See*—
Shakespeare, Henry G., and Harrington.
Shakespeare, Henry G., and G. D. Harrington, assignors to Shakespeare Company, Kalamazoo, Mich. Fishing reel. 170,389, Sept. 8.
Shuron Optical Company, Inc., assignee: *See*—
Rohrbach, John J.
Smith, French E., Akron, assignor to Imperial Glass Corporation, Bellaire, Ohio. Tumbler or similar article. 170,390, Sept. 8.
Story & Clark Piano Company, assignee: *See*—
Palma, Joseph, Jr.
Superior Plastics Inc., assignee: *See*—
Gast, George.
Swiss Watch Dial Co., Inc., assignee: *See*—
Saccone, John V.
Tailer, Peter, New York, N. Y. Clock or similar article. 170,391, Sept. 8.
Temco, Inc., assignee: *See*—
Bourner, Howard L.
Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.
Wenta, Stephen C., Boulder City, Nev. Ash tray. 170,392, Sept. 8.
Woods, Robert J., Grand Island, assignor to Bell Aircraft Corporation, Wheatfield, N. Y. Airplane. 170,393, Sept. 8.
World's Finest Chocolate, Inc., assignee: *See*—
Opler, Edmond.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 8TH DAY OF SEPTEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A B Svenska Skolkstfabriken, assignee: *See*—
Sjöström, Sture.
Aasland, John L., Moline, Ill., assignor to International Harvester Company. Corn harvesting unit with auxiliary snapping rolls. 2,651,163, Sept. 8.
Abbott Dairies, Inc., assignee: *See*—
Kennedy, Ridgway, Jr.
Abbott Laboratories, assignee: *See*—
Fields, Mack R.
Abendorth, Guss F., and G. H. Tausch, Houston, and J. Ward III, Tyler, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Gravel packing apparatus and arranging same in well casings. 2,651,369, Sept. 8.
Achee, Thomas J., New Orleans, La. Adjustable curb hopper. 2,651,525, Sept. 8.
Acklin, Gordon E., M. Hantack, and H. E. Perrey, assignors to McQuay-Norris Manufacturing Company, St. Louis, Mo. Control device. 2,651,744, Sept. 8.
Acrow (Engineers) Limited, assignee: *See*—
Hobbs, Archibald A.
Adair, Keith M., Eugene, Oreg. Liquid seal trap. 2,651,434, Sept. 8.
Affiliated Lithographers, Inc., assignee: *See*—
King, Elmore L.
Agnew, Albert B., Philipsburg, Pa., and F. J. Rief, Chicago, Ill. Square checker-brick. 2,651,515, Sept. 8.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Bickoff, Emanuel M.
Talburt, William F., and Guadagni.
Alcorn, Irwin W., and D. F. Dial, Jr., Houston, Tex., assignors to The Pure Oil Company, Chicago, Ill. Floating telescopic piling template. 2,651,181, Sept. 8.
Alden, Herbert W., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Differential mounting and carrier. 2,651,216, Sept. 8.
Alexander, Mary M., Los Angeles, Calif. Automatic salad chopper and mixer. 2,651,343, Sept. 8.
Allegheny Ludlum Steel Corporation, assignee: *See*—
Southern, Raymond L.
Allen, Alden: *See*—
Guise, Arthur B., and Allen.
Allen, Alden, Menominee, Mich., assignor to Ansul Chemical Company, Marinette, Wis. Apparatus for fluidising and pressurising fire-extinguishing dry chemicals. 2,651,374, Sept. 8.
Allen, Philip H., Orinda, Calif., and B. J. Chromy, Washington, D. C. Optical operation control device. 2,651,463, Sept. 8.
Allen, William, Son's Company, assignee: *See*—
Lowe, George C.
Aller, Willis F., assignor to The Sheffield Corporation, Dayton, Ohio. Size gauging device. 2,651,412, Sept. 8.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Blood, Arthur R.
Whisler, Paul A.
Allyn, William G., Auburn, F. M. Scott, Skaneateles, and E. H. Greppin, Rochester, assignors to Welch Allyn, Inc., Auburn, N. Y. Headlamp for physicians and surgeons. 2,651,301, Sept. 8.
Almoslino, Hans A., Hollis, N. Y. Portable body-supporting assemblage. 2,651,058, Sept. 8.
American Car and Foundry Company, assignee: *See*—
Clade, Robert.
American Cyanamid Company, assignee: *See*—
Angier, Robert B.
Baker, Bernard R., and Querry.
American Hardware Corporation, assignee: *See*—
Welch, Nicholas A.
American Machine and Metals, Inc., assignee: *See*—
O'Conor, Frank.
American Machinery Corporation, assignee: *See*—
Oldham, Gordon G.
American Pipe & Steel Corporation, assignee: *See*—
Mjellem, Frantz O.
American Pulley Company, The, assignee: *See*—
Williams, William A.
American Steel Foundries, assignee: *See*—
Polanin, Walter R.
American Totalisator Company, Inc., assignee: *See*—
Johnston, Arthur J.
American Viscose Corporation, assignee: *See*—
Bauer, Ernest K.
Angier, Robert B., Pearl River, assignor to American Cyanamid Company, New York, N. Y. 2-pyrrolidone-5-carboxamide derivatives and preparing the same. 2,651,639, Sept. 8.
Angles d'Auriac, Paul, assignor to Ateliers Neyret-Beylier & Piccard-Pictet, Grenoble, France. Pressure regulator. 2,651,323, Sept. 8.
Ansul Chemical Company, assignee: *See*—
Allen, Alden.
Guise, Arthur B., and Allen.
Guise, Arthur B., and Sunstrom.
Vanderwall, Clifford C.
Appliance Corporation of America, assignee: *See*—
Horvath, John F.
Armour and Company, assignee: *See*—
Sifferd, Robert H.
Sifferd, Robert H., and Svarz.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Brady, James M., and Spilhaus.
Hobbs, Edward C.
Arnold Dryer Co., assignee: *See*—
French, Henry C.
Ashcraft, Clarence S., Manhasset, N. Y. Arc lamp cooling device. 2,651,736, Sept. 8.
Ashman, Arthur, assignor to Colodense Limited, Bristol, England. Method of and apparatus for cutting paper and like webs. 2,651,364, Sept. 8.
Ashton, Benjamin N., J. P. Frain and E. S. Rawding, assignors to Electrol Incorporated, Kingston, N. Y. Shuttle valve. 2,651,491, Sept. 8.
Ashworth, Thomas, and Company Limited, assignee: *See*—
Stanworth, Stephen.
Ateliers Neyret-Beylier & Piccard-Pictet, assignee: *See*—
Angles d'Auriac, Paul.
Atkins, James I., Hollywood, Fla. Cabinet. 2,651,703, Sept. 8.
Atlantic Builder's Supply Corp., assignee: *See*—
Rau, Robert S. and W.
Atlantic Refining Company, The, assignee: *See*—
Ciapetta, Frank G.
Hirsch, William T., and Roth.
Austin, Benjamin L.: *See*—
Baker, Reuben C., and Austin.
Autogiro Company of America, assignee: *See*—
Pullin, Cyril G.
Automotive Appliance Company, assignee: *See*—
Ewald, Edwin.
Avco Manufacturing Corporation, assignee: *See*—
Wissel, Francis A.
B. B. Chemical Co., assignee: *See*—
Hall, Alan M., and Woolman.
Harrington, Valentine F.
Backen, Arthur O., Chicago, Ill. Portable spot welder. 2,651,701, Sept. 8.
Baker, Bernard R., Nanuet, N. Y., and M. V. Querry, Westwood, N. J., assignors to American Cyanamid Company, New York, N. Y. Quinazolone compounds and making the same. 2,651,633, Sept. 8.
Baker, Bernard R., Nanuet, N. Y., and M. V. Querry, Westwood, N. J., assignors to American Cyanamid Company, New York, N. Y. Beta-ketoalkyl-quinazolones and acid salts thereof and making the same. 2,651,632, Sept. 8.
Baker, Charles H., Maywood, assignor to S & C Electric Company, Chicago, Ill. Circuit interrupter. 2,651,695, Sept. 8.
Baker, Dwight L., Park Forest, assignor to B. L. Sarett, Chicago, Ill. Enzymatic process for producing gluconic acid. 2,651,592, Sept. 8.
Baker Oil Tools, Inc., assignee: *See*—
Baker, Reuben C.
Baker, Reuben C., and Austin.
Baker, Reuben C., Coalinga, assignor to Baker Oil Tools, Inc., Vernon, Calif. Plug device for well conduits. 2,651,367, Sept. 8.
Baker, Reuben C., Coalinga, and B. L. Austin, Long Beach, assignors to Baker Oil Tools, Inc., Vernon, Calif. Plug and valve device for casing apparatus. 2,651,368, Sept. 8.
Baker, William R., Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Mass spectrometer beam regulator. 2,651,723, Sept. 8.
Balanscope, Inc., assignee: *See*—
Garutso, Stephen E.
Baldwin, Morton S.: *See*—
Wray, Alfred W., and Baldwin.
Ballu, Vincent P. M., Epernay, assignor to Etablissements Edgar Brandt (Societe Anonyme), Paris, France. Implement attaching device for tractors. 2,651,248, Sept. 8.

Bame, Karl, Tiffin, Ohio. Door operated switch. 2,651,689, Sept. 8.

Bannister, Lawrence H.: *See*—
Uttley, Albert M., Noble, Bannister, and Ord.

Barabash, Elizabeth: *See*—
White, Blanche B., and Barabash.

Barnes, John, Milwaukee, Wis. Washing machine for agitating clothes and cleansing liquid by the use of air jets submerged in said cleansing liquid. 2,651,191, Sept. 8.

Barrows, Raymond H., Johnson City, assignor to International Business Machines Corporation, New York, N. Y. Clock synchronizing apparatus. 2,651,169, Sept. 8.

Barrows, Stephen S., Minneapolis, Minn. Magnifying instrument for precision measuring devices. 2,651,235, Sept. 8.

Bartlett, Edwin S., Ludington, Mich., assignor to Sunbeam Corporation, Chicago, Ill. Shearing handpiece. 2,651,107, Sept. 8.

Bauer, Ernest K., Meadville, Pa., assignor to American Viscose Corporation, Wilmington, Del. Winding core support. 2,651,479, Sept. 8.

Beardsley, Harold H., Denver, Colo. Convertible cot and camp chair. 2,651,352, Sept. 8.

Beattie, Horace S., Poughkeepsie, assignor to International Business Machines Corporation, New York, N. Y. Electromagnetic clutch with lubricating means. 2,651,396, Sept. 8.

Becker, Joseph T., Chicago, Ill. Pole-shoe tool. 2,651,338, Sept. 8.

Beese, Norman C., Verona, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Photoflash lamp. 2,651,189, Sept. 8.

Behnisch, Robert: *See*—
Schmidt, Hans, and Behnisch.

Bell, Ralph E., assignor to Kirsch Company, Sturgis, Mich. Curtain rod bracket elevator. 2,651,489, Sept. 8.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Edwards, Paul G., and Wurmser.
Hines, Marion E.

Beloit Iron Works, assignee: *See*—
Hornbostel, Lloyd.
Justus, Edgar J.

Bendix Aviation Corporation, assignee: *See*—
Brinson, Harry A., and Brady.
Dickey, John W., and Hood.
Eastman, James M.
Le Febvre, Arthur W., and Smith.
Mayforth, John H.
Monette, Mark L.
Volk, Emil A., Jr.
Wisman, Franklin O., and Reek.

Benham, Norman R., Detroit, Mich. Production recording instrument. 2,651,561, Sept. 8.

Bennett, Harold F., E. A. Young, and E. Hoag, assignors to Eastman Kodak Company, Rochester, N. Y. Automatic sequence-controlled computer. 2,651,458, Sept. 8.

Bennett, Irving T., Baltimore, Md., assignor to Revere Copper and Brass Incorporated, Rome, N. Y. Dies for extrusion presses. 2,651,411, Sept. 8.

Bennett, Richard F., assignor to Universal Paper Bag Co., New Hope, Pa. Valve bag. 2,651,451, Sept. 8.

Benson, Alfred B., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Direct read secondary clock and correction mechanism therefor. 2,651,167, Sept. 8.

Berg, Clyde H. O., and D. H. Imhoff, Long Beach, assignors to Union Oil Company of California, Los Angeles, Calif. Adsorption process. 2,651,666, Sept. 8.

Berg, Elaine, Chicago, Ill. Ear muff. 2,651,046, Sept. 8.

Bergan, Martin D., Westfield, assignor to The Thomas & Betts Co., Elizabeth, N. J. Bolted bus connector. 2,651,767, Sept. 8.

Berger, Isadore I.: *See*—
Sunderland, Louis, Fiorine, and Berger.

Bergey, Stanley L., Hempstead, and J. A. Nottingham, Hicksville, N. Y., assignors to The Sperry Corporation. Antenna apparatus. 2,651,721, Sept. 8.

Bergfors, Carl A., Yonkers, assignor to International Business Machines Corporation, New York, N. Y. Electronic multivibrator. 2,651,722, Sept. 8.

Bergman, Donald J., Kenilworth, assignor to Universal Oil Products Company, Chicago, Ill. Apparatus for uniform distribution and contacting of subdivided solid particles. 2,651,565, Sept. 8.

Berry, Charles T., Greenville, Miss., assignor to Berry and Levy Enterprises. Surgical splint. 2,651,302, Sept. 8.

Berry and Levy Enterprises, assignee: *See*—
Berry, Charles T.

Best, Cleafe A., Jackson, and L. E. Johnson, Parma, assignors to Sparks-Withington Company, Jackson, Mich. Turn indicator with automatic cancellation. 2,651,688, Sept. 8.

Bethlehem Steel Company, assignee: *See*—
Worthen, Eugene P., and Robinson.

Bickoff, Emanuel M., Berkeley, Calif., assignor to the United States of America as represented by the Secretary of Agriculture. Preservation of forage crops with phenol derivatives. 2,651,572, Sept. 8.

Bicocchi, Louis, La Salle, Ill. Variable tone duck call of the adjustable reed type. 2,651,141, Sept. 8.

Bigelow-Garvey Lumber Co., assignee: *See*—
Johnson, Johan S.

Billisoly, Julius P.: *See*—
Watts, Rhea N., and Billisoly.

Billet, Philip, and I. Levy, New York, N. Y. Position adjusting device for furniture or the like. 2,651,055, Sept. 8.

Billet, Philip, and I. Levy, New York, N. Y. Adjustable back or headrest mechanism. 2,651,056, Sept. 8.

Bituminous Coal Research, Inc., assignee: *See*—
Yellott, John I.

Bjurström, Thure H., Hallstahammar, Sweden. Foot pump. 2,651,454, Sept. 8.

Blackman, Seymour N., Teaneck, N. J. Container for hypodermic needles. 2,651,407, Sept. 8.

Blatz, Leo J., Elizabeth, N. J., assignor to Standard Oil Development Company. Kerosene finishing process. 2,651,504, Sept. 8.

Bleachers' Association Limited, assignee: *See*—
Melville, Alexander.

Block, Ines, New Rochelle, N. Y. Bathing suit. 2,651,040, Sept. 8.

Blood, Arthur R., assignor to Allis Chalmers Manufacturing Company, Milwaukee, Wis. Dual pressure hydraulic apparatus. 2,651,179, Sept. 8.

Blydenburgh, Harold L., assignor to The Moto-Mower Company, Detroit, Mich. Drive connection. 2,651,530, Sept. 8.

Bocji Corporation, assignee: *See*—
Lang, Joseph C.

Bodolay, Stephen, Inc., assignee: *See*—
Bodolay, Stephen M., and Vecchia.

Bodolay, Stephen M., Springfield, and D. S. Vecchia, Medford, assignors to Stephen Bodolay, Inc., Springfield, Mass. Package and making it. 2,651,578, Sept. 8.

Boes, Floyd M., assignee: *See*—
Morris, Thomas L.

Bohl, Lester E., New Martinsville, W. Va., assignor, by mesne assignments, to Columbia-Southern Chemical Corporation, Pittsburgh, Pa. Production of compounds of phosgene. 2,651,658, Sept. 8.

Böhm, Helmut: *See*—
Koppelmann, Floris, and Böhm.

Boisesian, Georges, Paris, France. Semiclosed cycle gas turbine plant. 2,651,174, Sept. 8.

Booker, John D., Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Recovery of pure paraxylene. 2,651,666, Sept. 8.

Borel, Pierre C., and M. R. Mauge, Boulogne-Billancourt, France, assignors to International Standard Electric Corporation New York, N. Y. Automatic switching system. 2,651,681, Sept. 8.

Borg-Warner Corporation, assignee: *See*—
Vonk, Cornelius G.

Borserd, William F., Evansville, Ind., assignor to International Harvester Company. Control system for refrigerant condensing units. 2,651,182, Sept. 8.

Bosworth, Phillips N., Becket, Mass., assignor to General Electric Company. High-voltage pothead with stress distributing means. 2,651,670, Sept. 8.

Bottum, Edward W., assignor to Skuttle Manufacturing Company, Detroit, Mich. Humidifier boiler. 2,651,293, Sept. 8.

Bradley, Theodore F.: *See*—
Shokal, Edward C., Newey, and Bradley.

Bradley, James M., West Long Branch, N. J., and A. F. Spilhaus, St. Paul, Minn., assignors to the United States of America as represented by the Secretary of the Army. Velocity and direction computer. 2,651,459, Sept. 8.

Brady, Thomas G.: *See*—
Brinson, Harry A., and Brady.

Brandenburg, Julius, New York, N. Y. Stethoscope with means for regulating the tone and pitch. 2,651,380, Sept. 8.

Bray, Frederick H., M. T. Wilson, D. H. Ormrod, and S. G. W. Johnstone, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Dual-use register sender. 2,651,680, Sept. 8.

Bready, William M., Milwaukee, Wis. Heat exchange apparatus for liquids containing solids. 2,651,508, Sept. 8.

Breitzke, Alfred, Rockford, Ill. Knife handle construction. 2,651,106, Sept. 8.

Brenner, Abner, Chevy Chase, Md., and D. E. Couch, Washington, D. C., assignors to the United States of America as represented by the Secretary of Commerce. Electrodeposition of aluminum from nonaqueous solutions. 2,651,608, Sept. 8.

Briggs-Shaffner Company, assignee: *See*—
Harris, Samuel A., and Sinquefield.

Brinkman, Roy A., Oak Park, Ill., assignor to Construction Aggregate Corporation. Positioning apparatus for dredge pipes. 2,651,122, Sept. 8.

Brinson, Harry A., Sidney, and T. G. Brady, Oneonta, assignors to Bendix Aviation Corporation, New York, N. Y. Ignition apparatus and making same. 2,651,298, Sept. 8.

Brisson, Louis C., Vineuil, France. Brake. 2,651,384, Sept. 8.

Bristol Steel & Iron Works, Inc., assignee: *See*—
Ferguson, Robert O.

British Tube Mills (Australia) Proprietary Limited, assignee: *See*—
Higgs, John B.

Brizzolara, Robert T., New Dorp, assignor to Cold Control, Inc., New York, N. Y. Compact refrigeration unit for vehicles using ice for condensing volatile refrigerants. 2,651,183, Sept. 8.

Brokaw, Charles A.: *See*—
Collins, Charles P., and Brokaw.

Brown Fintube Company, assignee: *See*—
Brown, John W., Jr.

Brown, John C., Upper Montclair, N. J. Skewer 2,651,231, Sept. 8.

Brown, John W., Jr., Lakewood, assignor to Brown Fintube Company, Elyria, Ohio. Gas burning heater with backdraft diverter. 2,651,299, Sept. 8.

Browner, William J., San Francisco, assignor to Relaxacisor-Thermatone, Inc., Los Angeles, Calif. Therapeutic electrode. 2,651,304, Sept. 8.

Bruce, Donald S., P. W. Herrlinger, and H. L. Heise, Troy, Ohio, assignors to The Gummed Products Company. Multiple layer stay tape. 2,651,588, Sept. 8.

Bruce, E. L., Company, assignee: *See*—
Kitterman, John E.

Bruckmann, Paul M. W., Alpine, N. J., assignor to The De Flores Company, Inc., New York, N. Y. Fluid pump. 2,651,264, Sept. 8.

Brush, Alanson P., Detroit, Mich. Apparatus for controlling the operation of domestic water systems. 2,651,259, Sept. 8.

Bruski, Victor C.: *See*—
Goering, Kenneth J., and Bruski.

Buckland, Bruce O., Schenectady, and G. B. Warren, Niskayuna, N. Y., assignors to General Electric Company. Variable area nozzle for high-temperature turbines. 2,651,496, Sept. 8.

Bucy, Roy T.: *See*—
Syrovy, Augustin J., Dunn, and Bucy.

Bungay, George W., assignor to Electrographic Corporation, New York, N. Y. Electrotyper's case. 2,651,614, Sept. 8.

Burdick, Richard, Dallas, Tex. Advertising device. 2,651,128, Sept. 8.

Bureau Technique Gautrat, S. A. R. L., assignee: *See*—
Neumann, Georg.

Burford, William B., III: *See*—
Fowler, Robert D., and Burford.

Burgess-Manning Company, assignee: *See*—
Marquardt, John A.

Burke, William F., and O. F. Simpson, assignors to The McBee Company, Athens, Ohio. Burning-in machine. 2,651,702, Sept. 8.

Burkhard, Henry F., near Long Branch, N. J. Lightproof seam and making the same. 2,651,049, Sept. 8.

Burnett, Edward N., San Lorenzo, Calif., assignor to Gerber Products Company, Fremont, Mich. Assembling and gluing for interlocking containers. 2,651,153, Sept. 8.

Burnett, Edward N., San Lorenzo, Calif., assignor to Gerber Products Company, Fremont, Mich. Container construction. 2,651,449, Sept. 8.

Burns, Grover P., Fredericksburg, Va. Thermometer. 2,651,202, Sept. 8.

Burton, Fred M.: *See*—
Tower, Ralph S., and Burton.

Butler, Robert A., Ashburton, England. Mobile lifting and lowering apparatus. 2,651,427, Sept. 8.

Buxton, Charles E., Pleasant Hill, Mo. Toy bomb. 2,651,142, Sept. 8.

Buyer, Edward M., Ramsey, assignor to Federal Telecommunication Laboratories, Inc., Nutley, N. J. Pulse keying system. 2,651,753, Sept. 8.

Calhoun, Rollin S., Oceanside, Calif. Nozzle head. 2,651,547, Sept. 8.

Call, Wilson, Ollidale, Calif. Binder for link chains. 2,651,089, Sept. 8.

Carosella, Michael C., and J. D. Mettler, Niagara Falls, N. Y., assignors to Union Carbide and Carbon Corporation. Electrowinning of chromium. 2,651,611, Sept. 8.

Carter, Jack W., Winter Haven, Fla., assignor to Fulton Bag & Cotton Mills, Atlanta, Ga. Bag closing and delivery unit. 2,651,272, Sept. 8.

Carter, Jack W., Winter Haven, Fla., assignor to Fulton Bag & Cotton Mills, Atlanta, Ga. Bag holder, carriage, and track assembly. 2,651,443, Sept. 8.

Carvelo, William, Oakland, and R. J. Morgan, Piedmont, Calif., assignors to L. A. Young Spring & Wire Corporation. Sectional wire fence. 2,651,502, Sept. 8.

Carwile, Preston B., Cambridge, assignor to Raytheon Manufacturing Company, Newton, Mass. Ultrasonic vibratory device. 2,651,148, Sept. 8.

Casciano, Anthony, Scranton, Pa. Mine car topping gate. 2,651,268, Sept. 8.

Case, J. I., Company, assignee: *See*—
Hartstock, Robert E., and Henss.
Richardson, Martin A.

Casey, Francis B., Concord, R. R. Woodcock, Weymouth, and M. E. Wood, Wakefield, assignors to Dewey and Almy Chemical Company, Cambridge, Mass. Packaging machine. 2,651,350, Sept. 8.

Casey, Francis B., Concord, R. R. Woodcock, Weymouth, and M. E. Wood, Wakefield, assignors to Dewey and Almy Chemical Company, North Cambridge, Mass. Bag sealing machine. 2,651,444, Sept. 8.

Cashin, Francis J.: *See*—
De Flores, Peter, and Cashin.

Cates, Herbert B., Fouke, Ark. Flushing unit. 2,651,318, Sept. 8.

Cathodeon Limited, assignee: *See*—
Theile, Richard.
Townsend, Frederick H., and Hall.

Cavallaro, Albert B., Bristol, R. I., assignor to Collins & Aikman Corporation, Philadelphia, Pa. Spinning machine. 2,651,165, Sept. 8.

Celanese Corporation of America, assignee: *See*—
White, Blanche B., and Barabash.

Cellulose Fibers Incorporated, assignee: *See*—
Courtney, Edward J.

Century Geophysical Corporation, assignee: *See*—
Stafford, John A.

Chester, Allan E., Highland Park, assignor to Poor & Company, Chicago, Ill. Electroplating copper. 2,651,609, Sept. 8.

Chester, Allan E., Highland Park, assignor to Poor & Company, Chicago, Ill. Electroplating zinc. 2,651,610, Sept. 8.

Chicago Die Casting Manufacturing Company, assignee: *See*—
Koch, William P.

Chonoski, Robert J., and H. W. Hacker, La Grange, Ill.; said Chonoski assignor to said Hacker. Inside reflection visor for automobiles. 2,651,543, Sept. 8.

Chromy, Benjamin J.: *See*—
Allen, Philip H., and Chromy.

Chrysler Corporation, assignee: *See*—
Syrovy, Augustin J., Dunn, and Bucy.

Chudleigh, Walter H., Jr., Oreland, assignor to Philco Corporation, Philadelphia, Pa. Brightness control circuit for television receivers. 2,651,739, Sept. 8.

Ciapetta, Frank G., Llanerch, assignor to The Atlantic Refining Company, Philadelphia, Pa. Reforming process and catalyst. 2,651,598, Sept. 8.

Clade, Robert, Detroit, Mich., assignor to American Car and Foundry Company, New York, N. Y. Balanced plug valve. 2,651,490, Sept. 8.

Clark, Adna R., Evansville, Ind., assignor to International Harvester Company. Centrifugally controlled variable speed V-belt power transmission. 2,651,210, Sept. 8.

Clark Equipment Company, assignee: *See*—
Elliott, Morris R., and Turner.
Lapsley, Robert, and Turner.

Clark, Herbert G., Bellevue, Wash. Battery operated lamp having anchoring means to position the lamp and hold the switch closed. 2,651,710, Sept. 8.

Clark, Warren H., Glendale, and T. H. Mead, Los Angeles, Calif., assignors to United Aircraft Products, Inc., Dayton, Ohio. Shimmy dampener. 2,651,385, Sept. 8.

Clauser, Herbert C., and R. S. Long, assignors, by mesne assignments, to Kilgore Inc., Westerville, Ohio. Flare composition. 2,651,567, Sept. 8.

Clavier, André G., and E. C. de Faymoreau, assignors to International Standard Electric Corporation, New York, N. Y. Traveling wave amplifier. 2,651,686, Sept. 8.

Cleland, James E.: *See*—
Longenecker, Joseph B., and Cleland.

Cleland, James E., Granite City, Ill., H. W. Curry, St. Louis, Mo., and A. L. Meyer, Granite City, Ill., assignors to Union Starch & Refining Company, Columbus, Ind. Producing a caramel color of high tinctorial power in the form of solid particles or a dry powder. 2,651,577, Sept. 8.

Clemens, George S., Evanston, assignor to National Dryer Manufacturing Corporation, Chicago, Ill. Heater assembly for electric driers. 2,651,705, Sept. 8.

Clemons, Dale R., Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Manufacturing electrostatic condensers. 2,651,101, Sept. 8.

Cliffe, John O.: *See*—
Mathews, John B., Evans, Hutton, and Cliffe.

Clurman, Stanley P., Brooklyn, N. Y., assignor to The Sperry Corporation. Locking and resetting means for gyroscopes. 2,651,205, Sept. 8.

Coats & Clark Inc., assignee: *See*—
Morin, Louis H.

Coblentz, Charles W., Alexandria, Va. Control device for refrigeration system. 2,651,691, Sept. 8.

Coe, Herbert A.: *See*—
Dyer, Dora F., and Coe.

Colburn, Pearl E., Green Bay, Wis. Tank gauge. 2,651,200, Sept. 8.

Cold Control, Inc., assignee: *See*—
Brizzolara, Robert T.

Cole, Hyman E., Valley Stream, N. Y., and W. Olsen, East Paterson, N. J., assignors to New York Pressing Machinery Corporation, New York, N. Y. Pressing machine. 2,651,125, Sept. 8.

Colgate-Palmolive-Peet Company, assignee: *See*—
Goldsmith, Henry A.

Collins & Aikman Corporation, assignee: *See*—
Cavallaro, Albert B.

Collins, Charles P., Denver, Colo., and C. A. Brokaw, Dallas, Tex., assignors to Eastman Oil Well Survey Company, Denver, Colo. Protective guide device for well instruments. 2,651,199, Sept. 8.

Collison, Marian L., assignee: *See*—
Collison, William J.

Collison, William J., Pasadena, assignor of fifty per cent to M. L. Collison, Bakersfield, Calif. Tool for cleaning waste pipes. 2,651,067, Sept. 8.

Colodense Limited, assignee: *See*—
Ashman, Arthur.

Colson Corporation, The, assignee: *See*—
Roe, William C.

Columbia-Southern Chemical Corporation, assignee: *See*—
Bohl, Lester E.

Commerce, United States of America as represented by the Secertary of, assignee: *See*—
Brenner, Abner, and Couch.

Congoleum-Nairn Inc., assignee: *See*—
Corson, Ralph.

Construction Aggregates Corporation, assignee: *See*—
Brinkman, Roy A.

Contraves A. G., assignee: *See*—
Gerber, Alfred.

Cooper, Henry E., Waltham, and D. L. Shanklin, Winchester, assignors to Dewey and Almy Chemical Company, Cambridge, Mass. Constant viscosity method of lining container closures. 2,651,586, Sept. 8.

Cooper, Richard W., Hutchinson, Kans. Exhaust muffler with conical perforated baffles. 2,651,381, Sept. 8.

Corbett, Francis P., Drexel Hill, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Turbine inlet structure. 2,651,495, Sept. 8.

Corner, Eugene S., Maplewood, and F. B. Fischl, Rahway, N. J., assignors to Standard Oil Development Company. Improving the octane number of light naphthas. 2,651,597, Sept. 8.

Cornett, Walter V., Los Angeles, Calif. Pneumatic cylinder hammer and control therefor. 2,651,292, Sept. 8.

Corning Glass Works, assignee: *See*—
Stookey, Stanley D.

Corry, Joseph R.: *See*—
Roemer, James A., McKibben, and Corry.

Corso, Philip J., California, and P. A. Romano, Philadelphia, Pa. Outdoor picture projection screen apparatus. 2,651,234, Sept. 8.

Corson, Ralph, Arlington, N. J., assignor to Congoleum-Nairn Inc. Cove strip. 2,651,086, Sept. 8.

Couch, Dwight E.: *See*—
Brenner, Abner, and Couch.

Courtaulds Limited, assignee: *See*—
Hartley, George A. R.
Hartley, George A. R., and Haughton.

Courtney, Edward J., Oaklyn, N. J., assignor to Cellulose Fibers Incorporated, Toledo, Ohio. Making a cuprammonium cellulose solution. 2,651,581, Sept. 8.

Courtney, Edward J., Oaklyn, N. J., assignor to Cellulose Fibers Incorporated, Toledo, Ohio. Making a cuprammonium cellulose solution. 2,651,582, Sept. 8.

Craig, Teddie O., Jr., and J. M. Lewis, assignors, by mesne assignments, to H. J. Le Vesconte, Glendale, Calif. Weatherstrip for metal casement windows. 2,651,392, Sept. 8.

Crompton, Arthur, assignor of one-half to Robey & Co. Limited, Lincoln, England. Unloading of material. 2,651,403, Sept. 8.

Crompton & Knowles Loom Works, assignee: *See*—
Turner, Richard G.

Crookston, Robert R., and J. S. Waters, Houston, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Torque indicating and shock absorber device. 2,651,197, Sept. 8.

Cross, James M., Belvidere, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Surface active agents. 2,651,645, Sept. 8.

Crowell, Arnold B., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Printing control means for record controlled machines. 2,651,254, Sept. 8.

Crucible Steel Company of America, assignee: *See*—
Ferm, John F.

Cuadras, Salvador, Saint-Leu-la-Foret, France, assignor to Holbrefin S. A., Geneva, Switzerland. Spraying appliance. 2,651,544, Sept. 8.

Cummings, Inc., assignee: *See*—
Cummings, Leslie L.

Cummings, Leslie L., assignor to Cummings, Inc., Houston, Tex. Gas lift valve. 2,651,319, Sept. 8.

Curry, Harry W.: *See*—
Cleland, James E., Curry, and Meyer.

Dale, Colin B., Oak Park, assignor to Webster-Chicago Corporation, Chicago, Ill. Adapter for phonograph records. 2,651,523, Sept. 8.

Daly, Charles T.: *See*—
Jacobsen, Bent B., Daly, Thomas, Wolfson, Shepard, and Green.

Daman, Arthur C., assignor to Mining Process and Patent Company, Denver, Colo. Dual aerating flotation machine. 2,651,413, Sept. 8.

Davies, David O., Edgware, assignor to Rolls-Royce Limited, Derby, England. Hydraulic speed-sensitive control system for prime movers. 2,651,261, Sept. 8.

Davies, Kenneth R., Radbourne, near Derby, and K. Herbstritt, Littleover, Derby, assignors to Rolls-Royce Limited, Derby, England. Hydraulic governor for gas turbine engine fuel systems. 2,651,517, Sept. 8.

Davies, Ralph K., Berea, Ohio. Educational device. 2,651,115, Sept. 8.

Davis, Hyman R., Jackson Heights, and C. F. Montross, assignors to The Lummus Company, New York, N. Y. Process and apparatus for clay contacting in the refining of lubricating oil. 2,651,602, Sept. 8.

Davison, Taito, and T. Davison, Chicago, Ill., said T. Davison assignor to said T. Davison. Outboard motor control. 2,651,278, Sept. 8.

Davison, Tuovi: *See*—
Davison, Taito, and T. Davison.

Dayless Mfg. Co., Inc., assignee: *See*—
Hoffman, Leslie B.

Deahl, Thomas J., Orinda, F. H. Stross, and M. D. Taylor, Berkeley, assignors to Shell Development Company, Emeryville, Calif. Resolution of mixtures comprising N-methylaniline and N,N-dimethylaniline. 2,651,606, Sept. 8.

Dearborn Motors Corporation, assignee: *See*—
Richey, Clarence B.

De Faymoreau, Etienne C.: *See*—
Clavier, André G., and de Faymoreau.

De Flores Company, Inc., The, assignee: *See*—
Bruckmann, Paul M. W.
De Florez, Peter, and Cashin.

De Florez, Peter, Oyster Bay, and F. J. Cashin, East Williston, assignors, by mesne assignments, to The De Flores Company, Inc. Incremental sanding apparatus for trimming book blocks. 2,651,180, Sept. 8.

De la Llana, Isaac P., Santurce, Puerto Rico, assignor to San Miguel & Compania, Inc. High-clearance crawler tractor. 2,651,378, Sept. 8.

De Laval Separator Company, The, assignee: *See*—
Streznaski, George J.

Delmar Chemicals Limited, assignee: *See*—
Delmar, Gesa S., and Macallum.

Delmar, Gesa S., Baie d'Urfe, Quebec, and E. N. Macallum, assignors to Delmar Chemicals Limited, Lachine, Quebec, Canada. Anticoagulant rodenticide. 2,651,591, Sept. 8.

De Mello, Victor, F. B., Sao Paulo, Brazil, and E. A. Hauser, Brookline, and T. W. Lambe, Cambridge, Mass., assignors to Research Corporation, New York, N. Y. Stabilization of soils. 2,651,619, Sept. 8.

Demerath, Le Roy: *See*—
Vail, Walter J. and R. B., Demerath, Dugin, and Nyberg.

De Merre, Marcel, assignor to Societe Generale Metallurgique de Hoboken, Hoboken-lez-Anvers, Belgium. Separation of nickel contained in nickeliferous cobalt alloys. 2,651,562, Sept. 8.

De Mestral, George, Pragins, assignor to Tess, S. A., Renens, Switzerland. Measuring instrument for determining the humidity of gaseous mixtures. 2,651,201 Sept. 8.

De Pree, David O.: *See*—
Hill, Eugene F., and De Pree.

De Nie, Willem L. J., Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Vinyl halide-vinylidene halide-acrylic ester tripolymers. 2,651,626, Sept. 8.

De-Raef Corporation, assignee: *See*—
Murphy, Walter L.

Detrex Corporation, assignee: *See*—
Harris, Stanley A.

Detroit Edison Company, The, assignee: *See*—
Milby, William R., and Eslick.

Detroit Safety Clutch Corporation, assignee: *See*—
Randall, Ralph R.

Dévot, André J., assignor to Tobe Deutschmann Corporation, Canton, Mass. Electrical fault finder. 2,651,752, Sept. 8.

Dewey and Almy Chemical Company, assignee: *See*—
Casey, Francis B., Woodcock, and Wood.
Cooper, Henry E., and Shanklin.

Dial, Daniel F., Jr.: *See*—
Alcorn, Irwin W., and Dial.

Dicke, Oscar H., New Bremen, Ohio. Time synchronizing mechanism. 2,651,168, Sept. 8.

Dickey, George D., assignee: *See*—
Sadtler, Philip B.

Dickey, John W., Newfield, and E. B. Hood, Elmira, N. Y., assignors to Bendix Aviation Corporation. Freeseometer. 2,651,194, Sept. 8.

Dickey, Joseph B., assignee: *See*—
Straley, James M., and Dickey.

Dickinson, Arthur H., Greenwich, Conn., assignor to International Business Machines Corporation, New York, N. Y. Automatic pressure measuring and indicating system. 2,651,204, Sept. 8.

Dickson, Benjamin A., Paoli, assignor to Terminal Warehouse Company, Philadelphia Pa. Lift truck and attachment therefor. 2,651,428, Sept. 8.

Dike, Howard R., Portland, Oreg. Press for removing the surplus mercury from an amalgam. 2,651,110, Sept. 8.

Dileo, Dominick, Utica, N. Y. Plumbing trap cleaner. 2,651,382, Sept. 8.

Discount, Bernard, Jamaica, N. Y. Rotary filing apparatus. 2,651,305, Sept. 8.

Dodds, Robert B., Woodbridge, and A. N. Hibbs, Mount Carmel, assignors to The Safety Car Heating and Lighting Company, Inc., New Haven, Conn. Milling wheat. 2,651,470, Sept. 8.

Dodge, Ralph O., West Los Angeles, assignor, by mesne assignments, to Wheelcraft Corporation, Azusa, Calif. Band clamp. 2,651,094, Sept. 8.

Dolch, William C.: *See*—
Hodgson, Robert F., and Dolch.

Doguier, Eugen, Iserlohn, assignor to H. Hulter, Jr., Iserlohn, Westphalia, Germany. Hasp type case latch. 2,651,536, Sept. 8.

Dorey, George B., Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Latching and closing means for railway car hopper doors. 2,651,266, Sept. 8.

Dorey, George B., Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Latching means for hopper car doors. 2,651,267, Sept. 8.

Dorfman, Ben D., Washington, D. C. Electric timing device. 2,651,166, Sept. 8.

Dow Chemical Company, The, assignee: *See*—
Mason, Robert S., Graham, and Hearns.
Meyer, Frederick J.

Downey, Paul M., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Mercapto azine derivatives. 2,651,630, Sept. 8.

Drake, Enoch H., Marshall, Mich. Onion digging and harvesting machine. 2,651,157, Sept. 8.

Dravinski, John T.: *See*—
Hohmann, Richard K., and Dravinski.

Dualoc Engineering Co., assignee: *See*—
Schoenrock, Otto E.

Duclos, Marc, Rolle, Switzerland. Gauge. 2,651,112, Sept. 8.

Dufour, Adrien L., Dijon, France. Onion trimming machine. 2,651,344, Sept. 8.

Dugin, Leo J.: *See*—
Vail, Walter J. and R. B., Demerath, Dugin, and Nyberg.

Duintjer Wilkens Meihuizen & Co., assignee: *See*—
van der Mark, Gerrit, and K.

Duke, Olin D., Guymon, Okla. Stock feeder. 2,651,291, Sept. 8.

Dunlap, Robert D.: *See*—
Simons, Joseph H., and Dunlap.

Dunn, William T.: *See*—
Syrovy, Augustin J., Dunn, and Bucy.

Durfee, Benjamin M.: *See*—
Wilson, Lawrence A., and Durfee.

Duro-Test Corporation, assignee: *See*—
Williams, Rollo G.

Dusseault, John L., Chelmsford, assignor to Patent Protection Corporation, Lowell, Mass. Filler for cartons. 2,651,448, Sept. 8.

Dyer, Dora F., Astoria, and H. A. Coe, Port Washington, N. Y. Mitt for detachable cleaning pads. 2,651,071, Sept. 8.

Earp, Charles W., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Radio direction finder. 2,651,774, Sept. 8.

Eastman, James M., assignor to Bendix Aviation Corporation, South Bend, Ind. Control for internal-combustion engines. 2,651,297, Sept. 8.

Eastman Kodak Company, assignee: *See*—
Bennett, Harold F., Young, and Hoag.
Straley, James M., and Dickey.

Eastman Oil Well Survey Company, assignee: *See*—
Collins, Charles P., and Brokaw.

Eaton Manufacturing Company, assignee: *See*—
Winther, Anthony.

Ebers, Jewell J., assignor to The Ohio State University Research Foundation, Columbus, Ohio. Wide range inductively-tuned oscillator. 2,651,738, Sept. 8.

Eby, Lawrence T.: *See*—
Mikeska, Louis A., and Eby.

Edwards, Paul G., Verona, and A. V. Wurmser, Mount Bethel, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Coding and signaling system. 2,651,678, Sept. 8.

Ehrenberg, Werner, Hayes, and W. E. Spear, London, England. X-ray tube. 2,651,727, Sept. 8.

Eichelman, Frank J., Brookfield, assignor to National Cylinder Gas Company, Chicago, Ill. Gas pressure regulator. 2,651,147, Sept. 8.

Elder, Albert V., Portland, Oreg. Extensible rack. 2,651,558. Sept. 8.

Electric and Musical Industries, Limited, assignee: *See*—
White, Eric L. C.

Electrographic Corporation, assignee: *See*—
Bungay, George W.

Electrol Incorporated, assignee: *See*—
Ashton, Benjamin N., Frain, and Rawding.

Elliott, Morris R., and G. L. Turner, assignors to Clark Equipment Company, Buchanan, Mich. Brake mechanism and handle construction. 2,651,379, Sept. 8.

Ellsworth, Ransom C., assignor to The Ohio Boxboard Company, Rittman, Ohio. Sealed container. 2,651,450, Sept. 8.

Emerson, Nellie, Youngstown, Ohio. Woman's undergarment. 2,651,047, Sept. 8.

Engberg, Donald W., St. Paul, and W. A. Norton, Mahtomedi, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Roll of adhesive tape. 2,651,408, Sept. 8.

English, James, Winsted, Conn. Balance mechanism for watches and clocks. 2,651,170, Sept. 8.

Engstrom, John R., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Apparatus for indicating variable conditions in machines. 2,651,195, Sept. 8.

Enterprise Railway Equipment Company, assignee: *See*—
Dorey, George B.

Erbguth, Paul F. K., Great Neck, N. Y. Holder for flowers and other articles. 2,651,422, Sept. 8.

Erdélyi, Ferenc, Felsogod, Hungary, assignor to Wilhelm Fette Praxisionswerkszeug-Fabrik, Hamburg-Altona, Germany. Apparatus for the production of screw threads by means of pressing rollers. 2,651,224, Sept. 8.

Eslick, Arthur U.: *See*—
Milby, William R., and Eslick.

Esmay, Margaret L. and P. O., Elmhurst, Ill. Terraced garden. 2,651,143, Sept. 8.

Esmay, Paul O.: *See*—
Esmay, Margaret L. and P. O.

Esselman, Walter H., Cranford, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electronic timer. 2,651,770, Sept. 8.

Essex Wire Corporation, assignee: *See*—
Talmadge, Palmer C., Zartman, and Prouty.

Etablissements Edgar Brandt (Societe Anonyme), assignee: *See*—
Ballu, Vincent P. M.

Ethyl Corporation, assignee: *See*—
Hill, Eugene F., and De Pree.

Eubanks, Arnold J., Oakhill, Ohio. Steering device for farm wagons. 2,651,526, Sept. 8.

Evans, Douglas: *See*—
Matthews, John B., Evans, Hutton, and Cliffe.

Ewald, Edwin, assignor to Automotive Appliance Company, Detroit, Mich. Escutcheon for doors. 2,651,537, Sept. 8.

Expellid Corporation, assignee: *See*—
Noyes, Harold M.

Fageol, R. D., Company, assignee: *See*—
Fageol, Robley D.

Fageol, Robley D., assignor to R. D. Fageol Company, Detroit, Mich. Speed responsive governor for internal-combustion engines. 2,651,316, Sept. 8.

Fallin, Thomas U.: *See*—
Justiss, Marcus D., and Fallin.

Farbenfabriken Bayer Aktiengesellschaft, assignee: *See*—
Henecka, Hans.

Farrel-Birmingham Company, Incorporated, assignee: *See*—
Schnuck, Carl F.

Fay, Joseph W., Villa Park, assignor of one-half to I. J. Mendels, Evanston, Ill. Tissue dispenser. 2,651,409, Sept. 8.

Federal Products Corporation, assignee: *See*—
Snow, Harold A.

Federal Telecommunication Laboratories, Inc., assignee: *See*—
Buyer, Edward M.
Lair, Julian J. B.

Fehrman, Frederick C., Washington, D. C. Animal mouth opener. 2,651,300, Sept. 8.

Feilden, Geoffrey B. R., Lincoln, assignor to Power Jets (Research and Development) Limited, Lonodn, England. Turbine. 2,651,492, Sept. 8.

Feissel, Henri, Paris, France, assignor to International Standard Electric Corporation, New York, N. Y. Pulse code modulation demodulator. 2,651,716, Sept. 8.

Feldstein, Henry H., Cleveland, Ohio, and M. J. Feldstein, Arlington, Va. Page card file. 2,651,126, Sept. 8.

Feldstein Marc J.: *See*—
Feldstein, Henry H., and M. J.

Fellows, Harrison E., Wauwatosa, Wis. Mold making machine. 2,651,087, Sept. 8.

Felts, Gordon P., Pasadena, and R. W. Seeger, South Pasadena, Calif. Tinsel wire connector for electrical conductors. 2,651,764, Sept. 8.

Ferguson, Duard, Los Angeles, Calif. Photoprint ejector. 2 651,244, Sept. 8.

Ferguson, James R., administrator: *See*—
Ferguson, Robert O.

Ferguson, Robert O., deceased, Bristol, Tenn., assignor of one-half to Bristol Steel & Iron Works, Inc., Bristol, Va.-Tenn., J. R. Ferguson, administrator of said R. O. Ferguson. Tobacco pipe bowl. 2,651,307, Sept. 8.

Ferm, John F., Midland, Pa., assignor to Crucible Steel Company of America, New York, N. Y. Apparatus for grinding disks. 2,651,149, Sept. 8.

Field, Oscar S., assignor to General Railway Signal Company, Rochester, N. Y. Frequency generator. 2,651,734, Sept. 8.

Fields, Mack R., Libertyville, assignor to Abbott Laboratories, North Chicago, Ill. Medicine dropper. 2,651,437, Sept. 8.

Finglass, Samuel R.: *See*—
Michaelson, Jack, and Finglass.

Finkel, Edward, assignor to J. F. D. Manufacturing Co., Inc., Brooklyn, N. Y. Antenna having concealed lightning arrester. 2,651,720, Sept. 8.

Fiorine, Ethel: *See*—
Sunderland, Louis, Fiorine, and Berger.

Fischl, Fred B.: *See*—
Corner, Eugene S., and Fischl.

Fitzgerald, Maurice, Yonkers, assignor to Sho-Me, Inc., New York, N. Y. Container for holding and transporting materials to be held separately. 2,651,436, Sept. 8.

Flannery and Associates, Inc., assignee: *See*—
Kelly, James B., Jr.

Fleming, Frederick K., Willow Creek, Trunkey, New South Wales, Australia. Seed gatherer. 2,651,164, Sept. 8.

Flex-O-Lators, Inc., assignee: *See*—
Platt, John G.

Florencourt, Frank B., Arlington, Mass., assignor to Westinghouse Air Brake Company. Means for supplying railway cab signaling energy through short railway track circuits. 2,651,713, Sept. 8.

Foley, Robert T., Pittsfield, Mass., and H. A. Omley, East Nassau, N. Y., assignors to General Electric Company. Glass-to-metal seal. 2,651,144, Sept. 8.

Food Machinery and Chemical Corporation, assignee: *See*—
Stillwell, Glenn E.

Foord, Stanley G.: *See*—
Warner, Arthur J., and Foord.

Forbach, Babe: *See*—
Peters, Amandus, Forbach, and Strotman.

Forbach, Phosipney: *See*—
Peters, Amandus, Forbach, and Strotman.

Foster, Edward A., Borger, Tex. Manually centered line boring machine. 2,651,221, Sept. 8.

Foster, Harry B., Ellisburg, and J. R. Parker, Haddon Heights, N. J., assignors to Radio Corporation of America. Modulation circuit. 2,651,758, Sept. 8.

Four Wheel Drive Auto Company, The, assignee: *See*—
Shannon, Jean R.

Fowler, James G., Jr., Alice, Tex. Repair clamp structure and method. 2,651,329, Sept. 8.

Fowler, Jefferson D., and R. A. Vaughn, Los Angeles, Calif. Chair with access preventing means. 2,651,354, Sept. 8.

Fowler, Robert D., and W. B. Burford, III, Baltimore, Md., assignors to the United States of America as represented by the United States Atomic Energy Commission. Fluorine cell. 2,651,613, Sept. 8.

Frain, John P.: *See*—
Ashton, Benjamin N., Frain, and Rawding.

Fram Corporation, assignee: *See*—
Malanowski, Stanley.

Fredenall, Gordan L., Feasterville, Pa., assignor to Radio Corporation of America. Frequency discriminatory system. 2,651,673, Sept. 8.

Freer, Phelps M., Detroit, Mich. Automobile heater. 2,651,505, Sept. 8.

French, Eric A. H., Christchurch, England. Circuit for operating electric discharge devices. 2,651,742, Sept. 8.

French, Henry C., Elm Grove, assignor to Arnold Dryer Co., Milwaukee, Wis. Mobile dehydrator. 2,651,269, Sept. 8.

Frenkel, Meyer, London, England. Governing mechanism with variable force. 2,651,516, Sept. 8.

Froman, Darol K., Santa Fe, N. Mex., W. H. Hinch, Denver, Colo., and R. J. Watts, Santa Fe, N. Mex., assignors to the United States of America as represented by the United States Atomic Energy Commission. Ionization chamber circuit. 2,651,726, Sept. 8.

Fulton Bag & Cotton Mills, assignee: *See*—
Carter, Jack W.

Gage, Fred W.: *See*—
Tondreau, Albert W., and Gage.

Gamble, Charles B., Birmingham, Ala. Diaphragm for pressure responsive apparatus and the like and pressure responsive device embodying the same. 2,651,328, Sept. 8.

Gamrath, Harry R., St. Louis, and W. S. Knowles, Kirkwood, assignors to Monsanto Chemical Company, St. Louis, Mo. Preparation of 1-p-nitro-phenyl-2-dichloroacetamidopropane-1,3-diol. 2,651,661, Sept. 8.

Gano, Joseph J., Worcester, Mass., assignor by mesne assignments, to Kearney & Trecker Corporation, West Allis, Wis. Control device. 2,651,746, Sept. 8.

Gans, François F., Paris, France. Manufacturing process of cadmium sulfide, selenide, telluride photoconducting cells. 2,651,700, Sept. 8.

Gardetto, Charles J., Cudahy, Wis. Emergency traction device. 2,651,347, Sept. 8.

Garfunkel, Louis X., New York, N. Y. Patty receiving device. 2,651,430, Sept. 8.

Garutso, Stephen E., San Fernando, Calif., assignor, by mesne assignments, to Balanscope, Inc. Balanced focus lens system. 2,651,237, Sept. 8.

Garutso, Stephen E., San Fernando, Calif., assignor, by mesne assignments, to Balanscope, Inc. Deep focus photographic objective. 2,651,238, Sept. 8.

General Aniline & Film Corporation, assignee: *See*—
Cross, James M.
Marschall, Franz.

General Controls Co., assignee: *See*—
Ray, William A.

General Electric Company, assignee: *See*—
Bosworth, Phillips N.
Buckland, Bruce O., and Warren.
Foley, Robert T., and Omley.
Larkin, Thomas E.
Prendergast, James J.
Prior, Roger A.
Prober, Maurice.
Seely, Richard E.
Slonneger, John L.
Stark, Julian H.
Warner, Wilbur W.
Weber, Gay W.

General Electric Company, Limited, The, assignee: *See*—
Lamont, Hugh R. L., and Robertshaw.
Levy, Maurice M.

General Patent Corporation, assignee: *See*—
Summers, William J.

General Railway Signal Company, assignee: *See*—
Field, Oscar S.
Hewes, Ralph W., and Phelps.
Johanek, George J., and Judge.
Scheg, Marcian A.

General Tire and Rubber Company, The, assignee: *See*—
Swart, Gilbert H.

Genter, Albert H., Mount Lebanon, Pa. Automatic safety brake. 2,651,387, Sept. 8.

Gerber, Alfred, assignor to Contraves A. G., Zurich, Switzerland. Observing apparatus, particularly for observing objects moving in space. 2,651,560, Sept. 8.

Gerber Products Company, assignee: *See*—
Burnett, Edward N.

Giros, Marcel, Ancerville, France. Method of and apparatus for displacing continuously a flexible band of solid material through a liquid treating chamber. 2,651,104, Sept. 8.

Gisvold, Ole, assignor to Regents of the University of Minnesota, Minneapolis, Minn. Dehydrobicatechols. 2,651,644, Sept. 8.

Glover, Bill, Incorporated, assignee: *See*—
Glover, William C., Jr., and Stevens.

Glover, Leonard: *See*—
Trowbridge, David R., and Glover.

Glover, William C., Jr., Lees Summit, and E. G. Stevens, Independence, Mo., assignor to Bill Glover, Incorporated. Device for tempering steam. 2,651,511, Sept. 8.

Goddard, Esther C., executrix: *See*—
Goddard, Robert H.

Goddard, Robert H., deceased, Annapolis, Md., by E. C. Goddard, executrix, Worchester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y. Propulsion apparatus actuated by successive charges of detonating materials. 2,651,171, Sept. 8.

Goering, Kenneth J., Bozeman, Mont., and V. C. Bruski, Linden, N. J., assignors to Research Corporation, New York, N. Y. Concentration of amylolytic enzymes. 2,651,593, Sept. 8.

Goldberg, Ralph, Denver, Colo. Storm window sash frame. 2,651,084, Sept. 8.

Goldsmith, Henry A., Long Island City, N. Y., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Liquid-liquid extraction process. 2,651,646, Sept. 8.

Goodrich, B. F., Company, The, assignee: *See*—
Hasselquist, Victor H.
Vincent, Walter R.

Gould, William F.: *See*—
Hargreaves, Thomas F. S., and Gould.

Goulds Pumps, Inc., assignee: *See*—
Hancy, Allan F.

Gourdon, Robert, assignor to Societe Anonyme dite Centre d'Etudes M. B. A. (Mecanique, Balistique, Armement), Paris, France. Item, total, and repeated registration control mechanism. 2,651,462, Sept. 8.

Gracey, William R., Jr., Swissvale, Pa., assignor to Westinghouse Air Brake Company. Electric circuit controller. 2,651,698, Sept. 8.

Grady, John R.: *See*—
Muschamp, Harold L., and Grady.

Graham, Joseph P.: *See*—
Mason, Robert S., Graham, and Hearns.

Greenfield, Charles, River Edge, N. J. Dehydration of fatty materials. 2,651,647, Sept. 8.

Green, David: *See*—
Jacobsen, Bent B., Daly, Thomas, Wolfson, Shepard, and Green.

Greenleaf, Jack W., Snohomish, Wash. Adjustable weight fishing sinker. 2,651,135, Sept. 8.

Gregg, Charles F., Indianapolis, Ind. Dusting gun. 2,651,139, Sept. 8.

Greppin, Ernest H.: *See*—
Allyn, William G., Scott, and Greppin.

Grifith, Alan A., assignor to Rolls-Royce Limited, Derby, England. Controlling combustion system of gas-turbine engines. 2,651,175, Sept. 8.

Grimsley, Leopold C., assignor to H. Hyman, New York, N. Y. Shock absorber assembly for portable electric flashlights. 2,651,763, Sept. 8.

Grouse, Richard A., assignor to A. H. Hunt (Capacitors) Limited, London, England. Manufacture of electrical capacitors. 2,651,100, Sept. 8.

Guadagni, Dante G.: *See*—
Talburt, William F., and Guadagni.

Guggenheim, Daniel and Florence, Foundation, The, assignee: *See*—
Goddard, Robert H.

Guille, Arthur L., Norfolk, Va. Joint bar device. 2,651,243, Sept. 8.

Guise, Arthur B., and H. P. Sunstrom, assignors to Ansul Chemical Company, Marinette, Wis. Apparatus for fluidizing fire-extinguishing dry chemicals. 2,651,373, Sept. 8.

Guise, Arthur B., Marinette, Wis., and A. Allen, Menominee, Mich., assignors to Ansul Chemical Company, Marinette, Wis. Apparatus for pressurising containers for fire-extinguishing dry chemicals. 2,651,375, Sept. 8.

Gummed Products Company, The, assignee: *See*—
Bruce, Donald S., Herrlinger, and Heise.

Gundrum, Benedict P., and E. D. McElhaney, Dunkirk, N. Y.; said Gundrum assignor to said McElhaney. Baseboard heating apparatus for rooms. 2,651,504, Sept. 8.

Gunther, Arthur N.: *See*—
Tonkens, Rosalie R., and Gunther.

H. H. and H. Manufacturing Co., assignee: *See*—
Noll, Heinrich A.

Hacker, Horace W.: *See*—
Chonoski, Robert J., and Hacker.

Hahn, Robert S., Northboro, assignor to The Heald Machine Company, Worcester, Mass. Apparatus for cutting metals. 2,651,223, Sept. 8.

Hair, Valton W.: *See*—
Warren, Otto J., and Hair.

Hall, Alan M., and R. Woolman, Leicester, England, assignors to B. B. Chemical Co., Boston, Mass. Stabilized toughened latex compositions. 2,651,618, Sept. 8.

Hall, Harvey S.: *See*—
Townsend, Frederick H., and Hall.

Hall, Horatio V.: *See*—
Stratton, Frank E., and Hall.

Hall, Victor C., Media, Pa., assignor to Merck & Co., Inc. Machine for irradiating liquids. 2,651,724, Sept. 8.

Haller, John, Northville, Mich. Compound hydraulic motor for molding presses. 2,651,180, Sept. 8.

Haller, John F., Niagara Falls, N. Y., assignor to Mathieson Chemical Corporation. Amperometric analyzer. 2,651,612, Sept. 8.

Hammarström, Johan E., assignor to Sandvikens Jernverks Aktiebolag, Sandviken, Sweden. Bow saw. 2,651,341, Sept. 8.

Hammond Machinery Builders, Inc., assignee: *See*—
Sutton, Donald E.

Hancy, Allan F., assignor to Goulds Pumps, Inc., Seneca Falls, N. Y. Air charging and air volume control for water systems. 2,651,260, Sept. 8.

Hantack, Melvin: *See*—
Acklin, Gordon R., Hantack, and Perrey.

Hardy, Robert L.: *See*—
Taff, Wilfred O., and Hardy.

Hargreaves, Thomas F. S., and W. F. Gould, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Automatic signal attenuator. 2,651,684, Sept. 8.

Harless, Charles L., assignor to York Nut Sheller Co., Inc., San Angelo, Tex. Nut sheller. 2,651,342, Sept. 8.

Harrington, Valentine F., Newton, assignor to B. B. Chemical Co., Boston, Mass. Temporarily covering articles. 2,651,119, Sept. 8.

Harris, Charles D., and J. R. Prosek, Evansville, Ind., assignors to International Harvester Company. Refrigerating apparatus having means for preventing condensation of moisture on the door. 2,651,187, Sept. 8.

Harris, Josephine A., Creswell, Oreg. Molded plastic shoe for dolls. 2,651,117, Sept. 8.

Harris, Samuel A. and C. A. Sinquefield, assignors to Briggs-Shaffner Company, Winston-Salem, N. C. Warp beam construction. 2,651,478, Sept. 8.

Harris-Seybold Company, assignee: *See*—
Ross, Royal E.

Harris, Stanley A., Glen Rock, N. J., assignor to Detrex Corporation, Detroit, Mich. Degreasing machine or apparatus. 2,651,607, Sept. 8.

Hartley, George A. R., Coventry, assignor to Courtaulds Limited, London, England. Recovery of acetic acid from aqueous acetic acid solutions by extractive distillation. 2,651,604, Sept. 8.

Hartley, George A. R., and C. O. Haughton, Coventry, assignors to Courtaulds Limited, London, England. Recovery of acetic acid from aqueous acetic acid solutions by extractive distillation. 2,651,605, Sept. 8.

Hartley, George C., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electric signaling system. 2,651,679, Sept. 8.

Hartsock, Robert E., La Habra, and R. W. Henss, South Gate, Calif., assignors to J. I. Case Company, Racine, Wis. Plow draft device. 2,651,247, Sept. 8.

Harvey, Merlin P.: *See*—
Ladd, Elbert C., and Harvey.

Hasselquist, Victor H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Inflatable walled structure. 2,651,314, Sept. 8.

Haughton, Charles O.: *See*—
Hartley, George A. R., and Haughton.

Hauser, Ernst A.: *See*—
De Mello, Victor F. B., Hauser, and Lambe.

Havens, Harry L., Kansas City, Mo. Building structure. 2,651,391, Sept. 8.

Hawkinson, Paul E., Company, assignee: *See*—
Hawkinson, Raymond P.

Hawkinson, Raymond P., assignor to Paul E. Hawkinson Company, Minneapolis, Minn. Mold for retreading pneumatic tire casings. 2,651,078, Sept. 8.

Hayward, John T., Tulsa, Okla. Weight on bit indicators. 2,651,198, Sept. 8.

Heald Machine Company, The, assignee: *See*—
Hahn, Robert S.

Hearns, Harold L.: *See*—
Mason, Robert S., Graham, and Hearns.

Heath, Frank R.: *See*—
Simonis, Edward A., and Heath.

Heath, Howard R., Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Apparatus for measuring resistance. 2,651,751, Sept. 8.

Hein, Harold W., Chicago, Ill., assignor to International Harvester Company. Claw for milking machines. 2,651,290, Sept. 8.

Heine, Richard W., assignor to Wisconsin Alumni Research Foundation, Madison, Wis. Manufacture of malleabilized white cast iron. 2,651,570, Sept. 8.

Heinecke, Hilary J., assignor to Manifold Hot Spot Corporation, Ripon, Wis. Heat exchange insert for engine manifolds. 2,651,507, Sept. 8.

Heinz, Winfield B., Bound Brook, N. J., assignor, by mesne asignments, to Penn Industrial Instrument Corporation. Pressure modulating relay. 2,651,317, Sept. 8.

Heise, Howard L.: *See*—
Bruce, Donald S., Herrlinger, and Heise.

Hemminger, Charles E., Westfield, N. J., assignor to Standard Oil Development Company. Two-stage hydrocarbon synthesis. 2,651,653, Sept. 8.

Hendrickson, Fritz E., South Elgin, assignor of one-half to M. Ireland, Elgin, Ill. Buffing wheel. 2,651,151, Sept. 8.

Hendry, James M., Indianapolis, Ind., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Dry backfire arrester. 2,651,322, Sept. 8.

Henecka, Hans, Wuppertal-Elberfeld, assignor, by mesne assignments, to Farbenfabriken Bayer Aktiengesellschaft. Leverkusen-Bayerwerk, Germany. Preparation of 1-benzyl-5,6,7,8-tetrahydroisoquinoline. 2,651,624, Sept. 8.

Henecka, Hans, Wuppertal-Elberfeld, assignor, by mesne assignments, to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen-Bayerwerk, Germany. Preparation of 1-benzyl-1:2:3:4:5:6:7:8-octahydro-isoquinoline. 2,651,635, Sept. 8.

Henecka, Hans, Wuppertal-Elberfeld, assignor, by mesne assignments, to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen-Bayerwerk, Germany. 1-benzyl-2,3,5,6,7,8-hexahydroisoquinolone-3 and the preparation thereof. 2,651,637, Sept. 8.

Henss, Richard W.: *See*—
Hartsock, Robert E., and Henss.

Herbstritt, Karl: *See*—
Davies, Kenneth R., and Herbstritt.

Herrlinger, Paul W.: *See*—
Bruce, Donald S., Herrlinger, and Heise.

Hewes, Ralph W., and S. M. Phelps, assignors to General Railway Signal Company, Rochester, N. Y. Speed indicating and recording device. 2,651,772, Sept. 8.

Heyl & Patterson, Inc., assignee: *See*—
Rose, Bennie A., and Osojnak.

Hibbs, Arthur N.: *See*—
Dodds, Robert B., and Hibbs.

Higgs, John B., Prospect, South Australia, assignor to British Tube Mills (Australia) Proprietary Limited, Kilburn, South Australia, Australia. Mechanism for operating counters for draw benches. 2,651,465, Sept. 8.

Highstone, Harold A., Santa Rosa, Calif. Trip timing meter. 2,651,456, Sept. 8.

Hill, Boyd N., Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Treatment of hydrocarbon synthesis naphtha. 2,651,654, Sept. 8.

Hill, Eugene F., Detroit, and D. O. De Pree, Birmingham, Mich., assignors to Ethyl Corporation, New York, N. Y. Stabilized organic compositions. 2,651,620, Sept. 8.

Hill, Eugene F., Birmingham, and D. O. De Pree, Royal Oak, Mich., assignors to Ethyl Corporation, New York, N. Y. Stabilized organic compositions. 2,651,621, Sept. 8.

Hill, Eugene F., Birmingham, and D. O. De Pree, Royal Oak, Mich., assignors to Ethyl Corporation, New York, N. Y. Stabilized organic compositions. 2,651,622, Sept. 8.

Hill, Eugene F., Birmingham, and D. O. De Pree, Royal Oak, Mich., assignors to Ethyl Corporation, New York, N. Y. Stabilized organic compositions. 2,651,623, Sept. 8.

Hill, Eugene F., Birmingham, and D. O. De Pree, Royal Oak, Mich., assignors to Ethyl Corporation, New York, N. Y. Rubber stabilized with a thiourea derivative. 2,651,667, Sept. 8.

Hill, Roscoe L., Norway, Maine, and R. W. Ireland, Beverly, Mass., assignors to United Shoe Machinery Corporation. Flemington, N. J. Lasting machine. 2,651,063, Sept. 8.

Hinch, William H.: *See*—
Froman, Darol K., Hinch, and Watts.

Hines, Marion E., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Channel separation light filter. 2,651,715, Sept. 8.

Hirsch, William T., Havertown, and E. R. Roth, Norwood, assignors to The Atlantic Refining Company, Philadelphia, Pa. Gate valve. 2,651,520, Sept. 8.

Hoag, Eben: *See*—
Bennett, Harold F., Young and Hoag.

Hobbs, Archibald A., assignor to Acrow (Engineers) Limited, London, England. Clamp for scaffolding tubes and like members. 2,651,532, Sept. 8.

Hobbs, Edward C., Louisville, Ky., assignor to the United States of America as represented by the Secretary of the Army. Gravity feed adapter for sheet metal containers. 2,651,440, Sept. 8.

Hodgson, Robert F., Chagrin Falls, and W. C. Dolch, Willoughby, Ohio, assignors, by mesne assignments, to The New York Air Brake Company, New York, N. Y. Multiple control valve. 2,651,324, Sept. 8.

Hoffman, Leslie B., assignor to Dayless Mfg. Co., Inc., Chicago, Ill. Wringer mop. 2,651,069, Sept. 8.

Hohmann Levy, Inc., assignee: *See*—
Hohmann, Richard K., and Dravinski.

Hohmann, Richard K., Jamaica, and J. T. Dravinski, New Hyde Park, assignors to Hohmann Levy, Inc., New York, N. Y. Lock stitch sewing machine under bed mechanism. 2,651,274, Sept. 8.

Holbrefin S. A., assignee: *See*—
Cuadras, Salvador.

Holmbeck, John D.: *See*—
Overbey, Ernest E., and Holmbeck.

Holmes Electric Protective Company, assignee: *See*—
Loudon, Clifford L.

Hood, E. Elliott: *See*—
Dickey, John W., and Hood.

Hooe, Hunter E., assignor to The McBee Company, Athens, Ohio. Card punch and die assembly. 2,651,363, Sept. 8.

Hopmann, Arthur E., Maplewood, Mo. Dual lever pry type lid lifter. 2,651,226, Sept. 8.

Horn, Edward N., New York, N. Y., and J. Samko, Jr., Newark, N. J., assignors to Sun Chemical Corporation, Long Island City, N. Y. Nonglare coating composition. 2,651,583, Sept. 8.

Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Thermoplastic film-forming machine. 2,651,076, Sept. 8.

Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Antideflection roll assembly. 2,651,103, Sept. 8.

Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Drier drum. 2,651,114, Sept. 8.

Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Antideflection roll, assembly, and use. 2,651,241, Sept. 8.

Horne, Robert J., Jenkintown, Pa. Fluid heater. 2,651,294, Sept. 8.

Horvath, John F., assignor to Appliance Corporation of America, Milwaukee, Wis. Cleaning and extracting apparatus. 2,651,190, Sept. 8.

Huck Company, assignee: *See*—
Huck, William F.

Huck, William F., Forest Hills, assignor to Huck Company, New York, N. Y. Impression cylinder for intaglio printing presses. 2,651,256, Sept. 8.

Hulter, Heinrich, Jr., assignee: *See*—
Doquier, Eugen.

Humes, James T.: *See*—
Ritchie, William H., and Humes.

Hunt, A. H. (Capacitors) Limited, assignee: *See*—
Grouse, Richard A.

Hunter, Henry M., assignee: *See*—
Sadtler, Philip B.

Hupp Corporation, assignee: *See*—
Mackmann, Arthur.

Hushley, Walter J.: *See*—
Longini, Richard L., and Hushley.

Hutton, John F.: *See*—
Matthews, John B., Evans, Hutton, and Cliffe.

Hyman, Henry, assignee: *See*—
Grimsley, Leopold C.

Hyman, Sam M., Manitowoc, Wis. Tumbler pad for drying machines. 2,651,509, Sept. 8.

Hyvari, Lauri O., Orr, Minn. Rail puller. 2,651,497, Sept. 8.

Iannone, Dominick: *See*—
Zaccardo, Pascal C., and Iannone.

Ide, Max C., Detroit, Mich. Belt-cutting and ripping device. 2,651,366, Sept. 8.

Illinois Stamping & Mfg. Co., assignee: *See*—
Palm, George H.

Imhoff, Donald H.: *See*—
Berg, Clyde H. O., and Imhoff.

Imperial Chemical Industries Limited, assignee: *See*—
Marrian, Stanley F., and McLean.

Ingersoll-Rand Company, assignee: *See*—
Taylor, Hugh B.

Ingram, Evert T., Compton, Calif. Pull rod lock for pumps. 2,651,551, Sept. 8.

International Business Machines Corporation, assignee: *See*—
Barrows, Raymond H.
Beattie, Horace S.
Benson, Alfred B.
Bergfors, Carl A.
Crowell, Arnold B.
Dickinson, Arthur H.
Engstrom, John R.
Koehler, Robert B.
Luhn, Hans P.
Luhn, Hans P., and Johnson.
Wilson, Lawrence A., and Durfee.
Wood, Marion L.

International Harvester Company, assignee: *See*—
Aasland, John L.
Borgerd, William F.
Clark, Adna R.
Harris, Charles D., and Prosek.
Hein, Harold W.
Morkoski, James.
Orendorff, John W.
Peterson, Walter R.
Walker, Delos A.

International Standard Electric Corporation, assignee: *See*—
Borel, Pierre C., and Mauge.
Bray, Frederick H., Wilson, Ormrod, and Johnstone.
Clavier, André G., and de Faymoreau.
Earp, Charles W.
Feissel, Henri.
Hargreaves, Thomas F. S., and Gould.
Hartley, George C.
Jacobaeu, Bent B., Daly, Thomas, Wolfson, Shepard, and Green.
Kruithof, Jakob.
Lair, Jean J. B.
Lalande, Marc A.
Marrow, Sidney H.
Warner, Arthur J., and Foord.

Ireland, Murray, assignee: *See*—
Hendrickson, Fritz E.

Ireland, Robert W.: *See*—
Hill, Roscoe L., and Ireland.

Irgens, Finn T., assignor to Outboard, Marine & Manufacturing Company, Milwaukee, Wis. Control device. 2,651,296, Sept. 8.

Isreeli, Jack: *See*—
Smith, Stanley J., and Isreeli.

Ivanoff, Victor, Luton, England. Fluid sealing device for electrical conductors. 2,651,672, Sept. 8.

J. F. D. Manufacturing Co., Inc., assignee: *See*—
Finkel, Edward.

Jacobaeu, Bent B., C. T. Daly, D. L. Thomas, H. Wolfson, S. C. Shepard, and D. Green, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Thermosensitive resistance element. 2,651,699, Sept. 8.

James, Kenneth E., assignor to United Concrete Pipe Corporation, Baldwin Park, Calif. Machine for applying coatings. 2,651,404, Sept. 8.

Jenshak, Edward H., Green Bay, Wis. Boat anchor with sliding shackle. 2,651,277, Sept. 8.

Jepson, Ivar, Oak Park, assignor to Sunbeam Corporation, Chicago, Ill. Automatic coffee maker. 2,651,707, Sept. 8.

Jespersen, Helge W., Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Broaching tool. 2,651,102, Sept. 8.

Joesting, Frederick D, Oak Park, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Self-cycling pneumatic control apparatus. 2,651,468, Sept. 8.

Johanek, George J., and T. J. Judge, assignors to General Railway Signal Company, Rochester, N. Y. Centralized traffic controlling system for railroads. 2,651,711, Sept. 8.

Johnson, Johan S., assignor to Bigelow-Garvey Lumber Co., Chicago, Ill. Packing crate. 2,651,431, Sept. 8.

Johnson, John M., Floodwood, Minn. Angularly adjustable boom-suspended bucket. 2,651,424, Sept. 8.

Johnson, Lloyd E.: *See*—
Best, Cleafe A., and Johnson.

Johnson, Richard L.: *See*—
Luhn, Hans P., and Johnson.

Johnson, Richard S., Racine Wis., and G. A. Palmquist, Chicago, Ill. Inhaler. 2,651,303, Sept.

Johnston, Arthur J., Ruxton, assignor to American Totalisator Company, Inc., Baltimore, Md. Key selector mechanism in printing machines. 2,651,253, Sept. 8.

Johnstone, Stanley G. W.: *See*—
Bray, Frederick H., Wilson, Ormrod, and Johnstone.

Judge, Thomas J.: *See*—
Johanek, George J., and Judge.

Junge, Albert E.: *See*—
Lytle, William O., and Junge.

Justice, Marcus D., Prescott, and T. U. Fallin, Magnolia, Ark. Plant setting machine. 2,651,280, Sept. 8.

Justus, Edgar J., assignor to Beloit Iron Works, Beloit, Wis. Machine for coating with thermoplastic materials. 2,651,077, Sept. 8.

Kahler, Herbert, Kensington, Md. Microtome specimen holder. 2,651,236, Sept. 8.

Kahn's, E., Sons Company, The, assignee: *See*—
Toennies, Owe M.

Kanter, Jack C., Norfolk, Va. Cotton roll holder. 2,651,109, Sept. 8.

Karig, Erhardt, assignor to Patentverwertung W. Reimers G. m. b. H., Bad Homburg vor der Hohe, Germany. Pulley for variable speed transmissions. 2,651,208, Sept. 8.

Karig, Erhardt, assignor to Patentverwertung W. Reimers, G. m. b. H., Bad Homburg vor der Hohe, Germany. Transmission chain for V-type pulleys. 2,651,211, Sept. 8.

Karsten, Kenneth S., Westport, Conn., assignor to R. T. Vanderbilt Company, Inc., New York, N. Y. Fumigant composition and process. 2,651,590, Sept. 8.

Kasser, Morris, Roseville, Calif. Vacuum method and device for cooling produce. 2,651,184, Sept. 8.

Kates, Don B., Los Angeles, Calif. Hose clamp. 2,651,095, Sept. 8.

Kay Manufacturing Corporation, assignee: *See*—
Krakauer, Edwin G.

Kearney, James R., Corporation, assignee: *See*—
Runde, Kenneth R.

Kearney & Trecker Corporation, assignee: *See*—
Gano, Joseph J.

Kellogg, M. W., Company, The, assignee: *See*—
Loughran, Robert T.

Kellogg Switchboard and Supply Company, assignee: *See*—
Storey, Wilbur G.

Kelly, Earl M., Hillsborough, and A. M. Kivari, Los Angeles, assignors to Process Engineers Incorporated, San Francisco, Calif. Clarification apparatus. 2,651,615, Sept. 8.

Kelly, James B., Jr., assignor to Flannery and Associates, Inc., Pittsburgh, Pa. Knockdown cabinet-type display table. 2,651,557, Sept. 8.

Kemmerer, Milton F., Waterloo, Iowa. Weedless fishhook. 2,651,134, Sept. 8.

Kemp, Franklin, Wesleyville, Pa. Hair curling device. 2,651,309, Sept. 8.

Kennedy, Ridgway, Jr., Drexel Hill, assignor to Abbott Dairies, Inc., Philadelphia, Pa. Filling nozzle. 2,651,443, Sept. 8.

Kennedy, William G., Wethersfield, assignor to United Aircraft Corporation, East Hartford, Conn. Cooling means for variable area nozzles. 2,651,172, Sept. 8.

Kennington, George L., Jr., Port St. Joe, Fla. Multiple-jaw hand plier. 2,651,227, Sept. 8.

Kewanee Industrial Washer Corp., assignee: *See*—
Ruhe, Joseph D.

Kilborn-Bauer Company, The, assignee: *See*—
Bauer, Arthur P.

Kilgore Inc., assignee: *See*—
Clauser, Herbert C., and Long.

King, Elmore L., New Rochelle, assignor to Affiliated Lithographers, Inc., New York, N. Y. Display card. 2,651,421, Sept. 8.

Kirsch Company, assignee: *See*—
Bell, Ralph E.

Kitterman, John E., assignor to E. L. Bruce Company, Memphis, Tenn. Apparatus for finishing wood flooring units. 2,651,289, Sept. 8.

Kivari, Arthur M.: *See*—
Kelly, Earl M., and Kivari.

Knights, James, Company, The, assignee: *See*—
Overbey, Ernest E., and Holmbeck.

Knowles, William S.: *See*—
Gamrath, Harry R., and Knowles.

Koch, William P., Chicago, Ill., assignor to Chicago Die Casting Manufacturing Company. Pulley package. 2,651,410, Sept. 8.

Koehler, Robert B., Hopewell Junction, assignor to International Business Machines Corporation, New York, N. Y. Dual-polarity gas tube counter. 2,651,741, Sept. 8.

Kopp, Philip E., Dover, Ohio. Combination window and blind. 2,651,065, Sept. 8.

Koppelmann, Floris, Berlin-Siemensstadt, and H. Böhm, Berlin-Charlottenburg, assignors to Licentia Patent-Verwaltungs- G. m. b. H., Hamburg, Germany. Mechanical rectifier. 2,651,750, Sept. 8.

Kosatka, Thomas O., assignor to Victor Manufacturing & Gasket Co., Chicago, Ill. Sealing device. 2,651,534, Sept. 8.

Kovac, George M., Rockford, Ill. Magnetic toy. 2,651,140, Sept. 8.

Krakauer, Edwin G., assignor to Kay Manufacturing Corporation, Brooklyn, N. Y. Sofa-bed hinge. 2,651,054, Sept. 8.

Krause, Jack H., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Refining of distillates with sulfuric acid and SO_2Cl_2. 2,651,596, Sept. 8.

Kristen, Emil A., St. Louis, Mo. Auto body repairing tool. 2,651,276, Sept. 8.

Kruithof, Jakob, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y. Flat crossbar switch mechanism. 2,651,682, Sept. 8.

Kruse, Andrew A., Detroit, Mich. Unitary sinker leader and fishhook. 2,651,136, Sept. 8.

Kulka, Marshall: *See*—
Warren, John C. B., and Kulka.

Ladd, Elbert C., and M. P. Harvey, Passaic, N. J., assignors to United States Rubber Company, New York, N. Y. Preparing tetraalkyl esters of 1,2-ethanediphosphonic acid. 2,651,656, Sept. 8.

Ladd, Elbert C., Passaic, and H. Sargent, Glen Rock, N. J., assignors to United States Rubber Company, New York, N. Y. Preparation of 2,2,2,3-tetrachlorobutane. 2,651,664, Sept. 8.

Lair, Jean J. B., Nutley, N. J., assignor to International Standard Electric Corporation, New York, N. Y. Electrical intercommunication system. 2,651,677, Sept. 8.

Lair, Julien J. B., assignor to Federal Telecommunication Laboratories, Inc., Nutley, N. J. Electron switching device. 2,651,740, Sept. 8.

L'Air Liquide, Societe Anonyme Pour l'Etude et l'Exploitation des Procedes Georges Claude, assignee: *See*—
Volcan, Jules P.

Lalande, Marc A., Paris, France, assignor to International Standard Electric Corporation, New York, N. Y. Retardation line subdivided into sections. 2,651,760, Sept. 8.

Lamb, Anthony H., Hillside, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Temperature indicator. 2,651,203, Sept. 8.

Lambe, Thomas W.: *See*—
De Mello, Victor F. B., Hauser, and Lambe.

Lamont, Hugh R. L., North Wembley, and R. G. Robertshaw, Bedford Park, assignors to The General Electric Company, Limited, London, England. Wave signal translating and separation system. 2,651,750, Sept. 8.

Lanfear, Joseph P., Long Island City, N. Y. Electrical connection. 2,651,671, Sept. 8.

Lang, Joseph C., assignor to Bocji Corporation, Pittsburgh, Pa. Connected fastener blank strip. 2,651,231, Sept. 8.

Lang, Joseph C., assignor to Bocji Corporation, Pittsburgh, Pa. Fastener strip. 2,651,232, Sept. 8.

Langley Corporation, assignee: *See*—
Mandolf, Henry I.

Lapsley, Robert, Berrien Springs, and G. L. Turner, Niles, assignors to Clark Equipment Company, Buchanan, Mich. Steering by driving interlocked with manual steering. 2,651,377, Sept. 8.

Larkin, Thomas E., Schenectady, N. Y., assignor to General Electric Company. Liquid filled expansible chamber. 2,651,327, Sept. 8.

Laurie, Gavin W., Springfield, Pa. Pressure responsive and indicating device. 2,651,279, Sept. 8.

Lauterbach, Norman E., Newark, assignor to Ritter Company, Inc., Rochester, N. Y. Control mechanism for motor operated chairs and the like. 2,651,351, Sept. 8.

La Veille, Henri J., Oak Harbor, Wash. Motion converting mechanism. 2,651,206, Sept. 8.

Lawson, Archibald, East Orange, N. J., assignor to Lawson Products Corporation. Hydrocarbon separator apparatus and separator element. 2,651,414, Sept. 8.

Lawson Products Corporation, assignee: *See*—
Lawson, Archibald.

Leach, John M., Port Washington, N. Y. Manufacturing confections. 2,651,573, Sept. 8.

Leblon, Emile, assignor to Solvay & Cie, Brussels, Belgium. Preventing the precipitation of insoluble salts of phenoxyacetic acids. 2,651,568, Sept. 8.

Lectra Products Inc., assignee: *See*—
Nathan, Edward.

Ledrut, Jules H. T., Brussels, assignor to Luxema S. A., Ixelles (Brussels), Belgium. Derivatives of 1,2,3-trisubstituted pyrasolones and producing such compositions. 2,651,638, Sept. 8.

Le Febvre, Arthur H., Washington Township, Bergen County, and D. E. D. Smith, Newark, assignors to Bendix Aviation Corporation, Teterboro, N. J. Adjustable dowel pin. 2,651,453, Sept. 8.

Lehmann, Ernst, Wallenstadt, Switzerland. Radiator. 2,651,506, Sept. 8.

Lennen, Guy B., Shirley, Ind. Fishhook releaser. 2,651,132, Sept. 8.

Lenz, Bernhart J., Merced, assignor of one-half to O. W. Shelton, Carmel, Calif. Combined socket wrench and nut-ejector. 2,651,229, Sept. 8.

Le Pechoux, André, Des Chenes, Quebec, Canada. Rotary engine. 2,651,295, Sept. 8.

Le Vesconte, Harold J., assignee: *See*—
Craig, Teddie O., Jr., and Lewis.

Levy, Irving: *See*—
Billet, Philip, and Levy.

Levy, Maurice M., Ottawa, Ontario, Canada, assignor to The General Electric Company Limited, London, England. Switching device. 2,651,718, Sept. 8.

Lewel Manufacturing Company, Inc., The, assignee: *See*—
Lewis, Benn.

Lewis, Benn, Maplewood, N. J., assignor to The Lewel Manufacturing Company, Inc., New York, N. Y. Foundation garment. 2,651,037, Sept. 8.

Lewis, Joseph M.: *See*—
Craig, Teddie O., Jr., and Lewis.

Lewis, Warren K., Jr.: *See*—
Martin, Homer Z., and Lewis.

Licentia Patent-Verwaltungs-G. m. b. H., assignee: *See*—
Koppelmann, Floris, and Böhm.

Limpert Brothers, Incorporated, assignee: *See*—
Moser, Frank T.

Lind, Orlando H., Auburn, Calif. Mixing device. 2,651,510, Sept. 8.

Lindell, Sigurd L., assignor to S & C Electric Company, Chicago, Ill. Electric fuse switch construction. 2,651,894, Sept. 8.

Linder, Ernest G., Princeton, N. J., assignor to Radio Corporation of America. Method of and apparatus for utilizing radioactive materials for generating electrical energy. 2,651,730, Sept. 8.

Loewen, Roland P., and J. H. Starr, Anniston, Ala., assignors to Monsanto Chemical Company, St. Louis, Mo. Production of alloys. 2,651,569, Sept. 8.

Lombard Governor Corporation, assignee: *See*—
Warren, Henry E.

Lombardi, Gaetano, Milan, Italy. Convertible shirt. 2,651,042, Sept. 8.

Long, Gretchen G., and V. Y. Long, Cleveland Heights, Ohio. Package wrapper. 2,651,131, Sept. 8.

Long, Robert S.: *See*—
Clauser, Herbert C., and Long.

Long, Vera Y.: *See*—
Long, Gretchen G. and V. Y.

Longenecker, Joseph B., and J. E. Cleland, Granite City, Ill., assignors to Union Starch & Refining Company, Columbus, Ind. Caramel color compositions. 2,651,576, Sept. 8.

Longini, Richard L., and W. J. Huahley, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. X-ray fluorescent screen. 2,651,584, Sept. 8.

Loock, Gerald H., Blythe, and R. E. Wollmer, Inglewood, Calif. Foldable sign carrier. 2,651,487, Sept. 8.

Lorentzen, Hans K., Montclair, N. J., assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y. End brace for Venetian blind head bars. 2,651,358, Sept. 8.

Lorentzen Hardware Mf'g. Corp., assignee: *See*—
Lorentzen, Hans K.

Loudon, Clifford L., La Jolla, Calif., assignor to Holmes Electric Protective Company, New York, N. Y. Ground potential compensator. 2,651,773, Sept. 8.

Loughran, Robert T., assignor to The M. W. Kellogg Company, Jersey City, N. J. Treatment of hydrocarbon waxes. 2,651,655, Sept. 8.

Lowe, George C., assignor to W. A. Son's Company, Worcester, Mass. Closure for processing tanks. 2,651,192, Sept. 8.

Lucas, Walter C., Asheboro, N. C. Corner fastener for chairs. 2,651,355, Sept. 8.

Lucius, George P., Drew, Miss. Cotton harvester. 2,651,160, Sept. 8.

Luhn, Hans P., Armonk, assignor to International Business Machines Corporation, New York, N. Y. Record sensing and data storage device. 2,651,461, Sept. 8.

Luhn, Hans P., Armonk, and R. L. Johnson, Wappingers Falls, assignors to International Business Machines Corporation, New York, N. Y. Calculating machine. 2,651,437, Sept. 8.

Lumetta, Lawrence C. and S. S., Detroit, Mich. Carpenter hand plane. 2,651,340, Sept. 8.

Lumetta, Samuel S.: *See*—
Lumetta, Lawrence C. and S. S.

Lummus Company, The, assignee: *See*—
Davis, Hyman R., and Montross.

Lusignan, Joseph T., Jr., assignor to The Ohio Brass Company, Mansfield, Ohio. Valve control mechanism. 2,651,325, Sept. 8.

Luxema, S. A., assignee: *See*—
Ledrut, Jules H. T.

Lynch, James F., Los Angeles, Calif., assignor to United States Rubber Company, New York, N. Y. Snap fastener. 2,651,093, Sept. 8.

Lyon, George A., Detroit, Mich. Wheel cover. 2,651,548, Sept. 8.

Lyon Metal Products, Incorporated, assignee: *See*—
O'Connor, John B.

Lytle, William O., and A. E. Junge, New Kensington, Pa., assignors to Pittsburgh Plate Glass Company. Production of electroconductive articles. 2,651,585, Sept. 8.

Macallum, Ernest N.: *See*—
Delmar, Geza S., and Macallum.

Mackmann, Arthur, Chicago, Ill., assignor to Hupp Corporation, Cleveland, Ohio. Power transmission mechanism for window regulators. 2,651,212, Sept. 8.

Madson, Clarence A., Emmons, Minn. Insulating jacket for toilet flush tanks. 2,651,052, Sept. 8.

Malanowski, Stanley, Tampa, Fla., assignor to Fram Corporation. Outward flow filter. 2,651,417, Sept. 8.

Malhiot, Clarence J., assignor to F. B. Redington Co., Chicago, Ill. Carton filling machine. 2,651,442, Sept. 8.

Mallory-Sharon Titanium Corporation, assignee: *See*—
Roemer, James A., McKibben, and Corry.

Malloy, William M., Stony Point, N. Y. Poison bait holder for exterminating rodents. 2,651,138, Sept. 8.

Mandolf, Henry L., assignor to Langley Corporation, San Diego, Calif. Fishing reel spool. 2,651,477, Sept. 8.

Manifold Hot Spot Corporation, assignee: *See*—
Heinecke Hilary J.

Marchetti, Romano, Lecco, Italy. Device for suspending conductors or similar objects from load ropes. 2,651,484, Sept. 8.

Marconi's Wireless Telegraph Company Limited, assignee: *See*—
Rich, Charles W.

Margison, Arthur D., Toronto, Ontario, Canada. Fuselage embracing hangar door. 2,651,359A, Sept. 8.

Marien, Clement S., Attleboro, Mass., assignor to Swank, Inc. Belt buckle. 2,651,090, Sept. 8.

Marks, Alvin, New York, N. Y. Crystallizing apparatus. 2,651,564, Sept. 8.

Marland, Frank H., New Bedford, assignor of one-half to R. F. Marland, North Dartmouth, Mass. Attachment for pipe bits. 2,651,306, Sept. 8.

Marland, Robert F., assignee: *See*—
Marland, Frank H.

Marquardt, John A., Elmhurst, assignor, by mesne assignments, to Burgess-Manning Company, Libertyville, Ill. Ventilating system. 2,651,250, Sept. 8.

Marrian, Stanley F., Ardrossan, and A. McLean, West Kilbride, Scotland, assignors to Imperial Chemical Industries Limited. Production of poly-pentaerythritols. 2,651,663, Sept. 8.

Marrow, Sidney H., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Dry rectifier assembly. 2,651,745, Sept. 8.

Marschall, Franz, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. 4-amino and 4-chloro phenyl-2-thienyl ketones. 2,651,640, Sept. 2.

Marshall, Donald E., Clifton, N. J., assignor of Westinghouse Electric Corporation, East Pittsburgh, Pa. Ignitron. 2,651,737, Sept. 8.

Martin, Homer Z., Cranford, and W. K. Lewis, Jr., Elizabeth, N. J., assignors to Standard Oil Development Company. Fractionation with solid adsorbents. 2,651,603, Sept. 8.

Maschinenfabrik Schärer, assignee: *See*—
Siegenthaler, Walter.

Mason, Robert S., J. P. Graham, and H. L. Hearns, assignors to The Dow Chemical Company, Midland, Mich. Rotary bar sealer for plastic films. 2,651,708, Sept. 8.

Mathews, William W., Richmond, Va. Control device. 2,651,262, Sept. 8.

Mathews, William W., Richmond, Va. Control device. 2,651,263, Sept. 8.

Mathieson Chemical Corporation, assignee: *See*—
Haller, John F.

Matthews, John B., D. Evans, J. F. Hutton, and J. O. Cliffe, Cheshire, England, assignors to Shell Development Company, Emeryville, Calif. Lithium hydroxy stearate grease compositions. 2,651,616, Sept. 8.

Mauge, Marcel R.: *See*—
Borel, Pierre C., and Mauge.

Mayforth, John H., Queens Village, assignor to Bendix Aviation Corporation, New York, N. Y. Electrical apparatus. 2,651,729, Sept. 8.

Maytag Company, The, assignee: *See*—
Smith, Thomas R.

McAfoos, Herbert W., assignee: *See*—
Neely, Walter W.

McBee Company, The, assignee: *See*—
Hooe, Hunter E.
Burke, William F., and Simpson.

McBeth, Charles M., Walla Walla, Wash. Washer for fire hoses. 2,651,312, Sept. 8.

McBride, William E., Woodstown, N. J. Automatic bird fountain or bath. 2,651,321, Sept. 8.

McConnell, Ralph S., Silver Spring, Md. Sealed shipping container. 2,651,432, Sept. 8.

McCreery, Robert W., Port Washington, assignor to Phillips-Jones Corporation, New York, N. Y. Shirt collar. 2,651,043, Sept. 8.

McElhaney, Edward D.: *See*—
Gundrum, Benedict P., and McElhaney.

McFarland, Alice M., Cincinnati, Ohio. X-ray cassette holder and clamping device. 2,651,725, Sept. 8.

McGowan, William S., Torreon, Mexico. Transplanting machine. 2,651,405, Sept. 8.

McGraw, William F., assignor to Wm. F. McGraw & Co., Detroit, Mich. Corrugated cushion roll. 2,651,398, Sept. 8.

McGraw, Wm. F., & Co., assignee: *See*—
McGraw, William F.

McKibben, Burt H.: *See*—
Roemer, James A., McKibben, and Corry.

McKone, Charles J., Charleston, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Manufacture of ferric dithiocarbamates. 2,651,650, Sept. 8.

McLean, Andrew: *See*—
Marrian, Stanley F., and McLean.

McMahon, Richard D., Vinton, La. Rotary cutter for drills. 2,651,501, Sept. 8.

McQuay-Norris Manufacturing Company, assignee: *See*—
Acklin, Gordon R., Hantack, and Perrey.

McWain, Dean I. and R. D., Salem, Oreg. Child's portable folding high seat. 2,651,353, Sept. 8.

McWain, Ronald D.: *See*—
McWain, Dean I. and R. D.

Mead, Thomas H.: *See*—
Clark, Warren H., and Mead.

Melville, Alexander, Southport, assignor to Bleachers' Association Limited, Manchester, England. Treatment of fabric. 2,651,098, Sept. 8.

Mendels, Irwin J., assignee: *See*—
Fay, Joseph W.

Merck & Co., Inc., assignee: *See*—
Hall, Victor C.

Mergenthaler Linotype Company, assignee: *See*—
Turner, Ransom H.

Mettler, John D.: *See*—
Carosella, Michael C., and Mettler.

Meyer, Alvin J., Dorchester, Wis. Chopper box gate control. 2,651,542, Sept. 8.

Meyer, Alvin L.: *See*—
Cleland, James E., Curry, and Meyer.

Meyer, Frederick J., Freeland, assignor to The Dow Chemical Company, Midland, Mich. Copper diammonium pentachlorophenolate. 2,651,648, Sept. 8.

Michaelson, Jack, and S. R. Finglass, Baltimore, Md. Molding ornamental objects. 2,651,079, Sept. 8.

Midwestern Geophysical Laboratory, assignee: *See*—
Morrow, Marvin E.

Mikeska, Louis A., Westfield, and L. T. Eby, Linden, N. J., assignors to Standard Oil Development Company. Synthetic lubricating oil. 2,651,657, Sept. 8.

Milberg, Jacques R., East Rockaway, N. Y. Garment structure with crotch. 2,651,048, Sept. 8.

Milby, William R., Detroit, and A. U. Eslick, Grosse Pointe, assignors to The Detroit Edison Company, Detroit, Mich. Clothes drier. 2,651,113, Sept. 8.

Miller, Cecil, Pomona, Calif. Swivel. 2,651,533, Sept. 8.

Miller, Charles E., Westmont, N. J., assignor to Radio Corporation of America. Automatic selective and sequential tuner. 2,651,397, Sept. 8.

Miller, Hans R., Cross Lake, Minn. Earth moving and vehicle propelling conveyor for self-loading road building machines. 2,651,120, Sept. 8.

Miller, Walter, and J. L. D. Morrison, Benton Harbor, Mich. Record changer head. 2,651,524, Sept. 8.

Mills, Clarence A., assignor to Refectotherm, Inc., Cincinnati, Ohio. System of radiant heat exchanging. 2,651,503, Sept. 8.

Mining Process and Patent Company, assignee: *See*—
Daman, Arthur C.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Joesting, Frederick D.

Minneapolis-Moline Company, assignee: *See*—
Williamson, Louis W., and Runsberg.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Engberg, Donald W., and Norton.
Simons, Joseph H., and Dunlap.

Misch, Otto R., South Bend, Ind. Making lock nuts. 2,651,060, Sept. 8.

Mjellem, Frantz O., assignor to American Pipe & Steel Corporation, Alhambra, Calif. Tank with floating roof. 2,651,433, Sept. 8.

Monette, Mark L., assignor to Bendix Aviation Corporation, South Bend, Ind. Wheel rim construction. 2,651,348, Sept. 8.

Monsanto Chemical Company, assignee: *See*—
Downey, Paul M.
Gamrath, Harry R., and Knowles.
Loewen, Roland P., and Starr.
McKone, Charles J.
Rossin, Elmer H.
Zerbe, Richard O.

Montgomery, James M., Los Angeles, Calif. Brake pipe and signal hose coupling gasket groove reconditioning device. 2,651,066, Sept. 8.

Montross, Charles F.: *See*—
Davis, Hyman R., and Montross.

Moore, Kenneth N., West Middletown, assignor to The Raymond Bag Company, Middletown, Ohio. Apparatus for automatically controlling the operation of bag sewing machines. 2,651,275, Sept. 8.

Moorhouse, Courtney E.: *See*—
Thomas, John B., and Moorhouse.

Morgan, Roland J.: *See*—
Carvelo, William, and Morgan.

Morin, Louis H., Bronx, N. Y., assignor to Coats & Clark Inc. Plastic shrouded spool. 2,651,476, Sept. 8.

Morkoski, James, Memphis, Tenn., assignor to International Harvester Company. Tractor mounted tree embracing rotary cultivator. 2,651,240, Sept. 8.

Morris, Thomas L., Canoga Park, assignor of one-half to Floyd M. Boes, North Hollywood, Calif. Automatic transmission. 2,651,218, Sept. 8.

Morrison, James L. D.: *See*—
Miller, Walter, and Morrison.

Morrow, Marvin E., assignor to Midwestern Geophysical Laboratory, Tulsa, Okla. Oscillograph galvanometer. 2,651,756, Sept. 8.

Moser, Frank T., Easton, Pa., assignor to Limpert Brothers, Incorporated, New York, N. Y. Dispensing nozzle. 2,651,270, Sept. 8.

Moser, Otto, Berne, Switzerland. Electric current impulse transmitter. 2,651,676, Sept. 8.

Mosterts, Franz C., Philadelphia, Pa. Device and method for weaving a spiral slide fastener to a narrow fabric simultaneously with the weaving of the fabric. 2,651,330, Sept. 8.

Moto-Mower Company, The, assignee: *See*—
Blydenburgh, Harold L.
O'Maley, Claude V.

Moulthrop, Benjamin L., Pitman, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Treating hydrocarbons. 2,651,595, Sept. 8.

Mueller Co., assignee: *See*—
Mueller, Frank H., and Smith.

Mueller, Frank H., and J. J. Smith, assignors to Mueller Co., Decatur, Ill. Drilling machine. 2,651,222, Sept. 8.

Murphy, Horace G., Cambridge, Md. Plow-conveyer-thrower combination type ditching machine. 2,651,123, Sept. 8.

Murphy, Walter L., assignor to De-Raef Corporation, Kansas City, Mo. Continuous ice-cream freezer and method of making ice cream. 2,651,186, Sept. 8.

Muschamp, Harold L., Bramhall, and J. R. Grady, Cheadle Hulme, England, said Grady assignor to said Muschamp. Pirn winder or the like. 2,651,472, Sept. 8.

Myer, Moses L., University City, Mo. Rail-fastening clip. 2,651,469, Sept. 8.

N. V. Vereenigde Tabaksindustrieen Mignot & De Block, assignee: *See*—
Van Buul, Everardus W. C.

Napier, D., & Son Limited, assignee: *See*—
Simonis, Edward A., and Heath.

Naples, Angelo F., trustee, assignee: *See*—
Nardulli, Michael J.

Nardulli, Michael J., Elmwood Park, Ill., assignor to M. J. Nardulli, A. F. Naples, and P. F. Nardulli, as trustees, and known as Western Engineering Trust. Window structure. 2,651,083, Sept. 8.

Nardulli, Peter F., trustee, assignee: *See*—
Nardulli, Michael J.

Nash, Daniel J., assignor to Nash Inc., Jersey City, N. J. Closure for wallets or billfolds. 2,651,346, Sept. 8.

Nash Inc., assignee: *See*—
Nash, Daniel J.

Nathan, Edward, assignor to Lectra Products Inc., New York, N. Y. Switch mounting. 2,651,281, Sept. 8.

National Cylinder Gas Company, assignee: *See*—
Eichelman, Frank J.

National Dryer Manufacturing Corporation, assignee: *See*—
Clemens, George S.

National Research Development Corporation, assignee: *See*—
Uttley, Albert M., Noble, Bannister and Ord.

Naylor, Joseph F., assignor to T. & T. Vicars Limited, Newton-le-Willows, England. Heating system for bakers' ovens and other heating chambers. 2,651,271, Sept 8.

Neel, Louis, Grenoble, assignor to Société d'Electro-Chimie d'electro-Metallurgie et des Acieries Electriques d'Ugine, Paris, France. Manufacture of permanent magnets. 2,651,105, Sept. 8.

Neely, Walter W., assignor of one-half to H. W. McAfoos, Alton, Ill. Calender roll guide and feed mechanism. 2,651,242, Sept. 8.

Nelson, Melvin O., Kansas City, Mo. Hand locking battery cable clamp. 2,651,765, Sept. 8.

Neumann, Georg, assignor to Bureau Technique Gautrat, S. A. R. L., Paris, France. Hermetically sealed storage battery. 2,651,669, Sept. 8.

New Jersey Machine Corporation, assignee: *See*—
Von Hofe, George W.

New York Air Brake Company, The, assignee: *See*—
Hodgson, Robert F., and Dolch.

New York Pressing Machinery Corporation, assignee: *See*—
Cole, Hyman E., and Olsen.

Newey, Herbert A.: *See*—
Shokal, Edward C., Newey, and Bradley.

Nicollé, Charles, Gentilly, France. Preparing moisture-proof wrappings for perishable articles. 2,651,154, Sept. 8.

Noble, Spencer W.: *See*—
Uttley, Albert M., Noble, Bannister, and Ord.

Noll, Heinrich Arnold, Duesseldorf, Germany, assignor to H. H. and H. Manufacturing Co., Chicago, Ill. Centrifugal grinding mill with abrasive liner and angularly disposed feed conduit. 2,651,471, Sept. 8.

Northwest Nut Growers, assignee: *See*—
Schoolcraft, Edwin H.

Norton, Walter A.: *See*—
Engberg, Donald W., and Norton.

Nottingham, James A.: *See*—
Bergey, Stanley L., and Nottingham.

Noyes, Harold M., Claremont, assignor to Expellid Corporation, Dover, N. H. Assorting and forwarding mechanism. 2,651,402, Sept. 8.

Nyberg, Curt E.: *See*—
Vail, Walter J. and R. B., Demerath, Dugin and Nyberg.

O'Connor, Charles M., Tucson, Ariz. Tray washing and sterilizing machine. 2,651,065, Sept. 8.

O'Connor, John B., assignor to Lyon Metal Products, Incorporated, Aurora, Ill. Locker construction. 2,651,559, Sept. 8.

O'Conor, Frank, Moline, Ill., assignor to American Machine and Metals, Inc., New York, N. Y. Suspension link for centrifugal extractor casings. 2,651,482, Sept. 8.

Ohio Boxboard Company, The, assignee: *See*—
Ellsworth, Ransom C.

Ohio Brass Company, The, assignee: *See*—
Lusignan, Joseph T., Jr.

Ohio State University Research Foundation, The, assignee: *See*—
Ebers, Jewell J.

Oldham, Gordon G., Leesburg, assignor to American Machinery Corporation, Orlando, Fla. Coating machine for edible products. 2,651,286, Sept. 8.

Olsen, Walter: *See*
Cole, Hyman E., and Olsen.

Olson, Holly M., assignor to Sealed Power Corporation, Muskegon, Mich. Draw bar actuating power amplifying apparatus. 2,651,207, Sept. 8.

Olson, Robert W.: *See*—
Perry, Edward G., Jr., and Olson.

O'Maley, Claude V., Richmond, Ind., assignor to The Moto-Mower Company, Detroit, Mich. Separable machine or equipment handle. 2,651,075, Sept. 8.

Omley, Herbert A.: *See*—
Foley, Robert T., and Omley.

Oortgijsen, Jan, Rijswijk, Netherlands. Electrical terminal having conductor-severing edge. 2,651,768, Sept. 8.

Ord, Geoffrey: *See*
Uttley, Albert M., Noble, Bannister, and Ord.

Orendorff, John W., Canton, Ill., assignor to International Harvester Company. Power-operated beet harvesting device. 2,651,155, Sept. 8.

Orendorff, John W., Canton, Ill., assignor to International Harvester Company. Vegetable cart. 2,651,426, Sept. 8.

Ormrod, Douglas H.: *See*—
Bray, Frederick H., Wilson, Ormrod, and Johnstone.

Osojnak, Boris M.: *See*—
Rose, Bennie A., and Osojnak.

Outboard, Marine & Manufacturing Company, assignee: *See*—
Irgens, Finn T.

Overbey, Ernest E., and J. D. Holmbeck, assignors to The James Knights Company, Sandwich, Ill. Temperature control unit for piezoelectric crystal. 2,651,731, Sept. 8.

Overstrom, Conrad: *See*—
Overstrom, George, C., and G. A.

Overstrom, George, Alhambra, C. Overstrom, Altadena, and G. A. Overstrom, Alhambra, Calif. Vibrating screen. 2,651,419, Sept. 8.

Overstrom, Gustave A.: *See*—
Overstrom, George, C., and G. A.

P & K Incorporated, assignee: *See*—
Sharpe, George J.

Padjen, Emil M., Citrus Heights, Calif. Sash balance for double hung windows. 2,651,535, Sept. 8.

Palm, George H., assignor to Illinois Stamping & Mfg. Co., Chicago, Ill. Foam producing attachment. 2,651,546, Sept. 8.

Palmer, Winslow, West Hempstead, N. Y., assignor to The Sperry Corporation. Angular motion detector and position indicator. 2,651,771, Sept. 8.

Palmquist, Gustav A.: *See*—
Johnson, Richard S., and Palmquist.

Paris, I. Richard, assignee: *See*—
Wied, Carl A.

Parker, Joseph R.: *See*—
Foster, Harry B., and Parker.

Parks, Winifred E., Los Angeles, and H. W. West, Lynwood, Calif. Liquid diverting apparatus. 2,651,051, Sept. 8.

Patent Protection Corporation, assignee: *See*—
Dusseault, John L.

Patentverwertung W. Reimers, G. m. b. H., assignee: *See*—
Karig, Erhardt.

Patser, William, assignor to C. E. Threedy, Chicago, Ill., as trustee. Slug rejector for coin selecting devices. 2,651,399, Sept. 8.

Pearson, John M., Swarthmore, assignor to Sun Oil Company, Philadelphia, Pa. Borehole flowmeter. 2,651,370, Sept. 8.

Penn Industrial Instrument Corporation, assignee: *See*—
Heins, Winfield B.

Pennsylvania Salt Manufacturing Company, The, assignee: *See*—
Plump, Ralph E.

People of the United States, dedicated to the free use of the, assignee: *See*—
Whittier, Earle O.

Perrey, Huel C.: *See*—
Acklin, Gordon R., Hantack, and Perrey.

Perry, Edward G., Jr., and R. W. Olson, Dallas, Tex., assignors to Texas Instruments Incorporated. Electrical meter. 2,651,754, Sept. 8.

Persson, Thure A., assignor to Svenska Flygmotor Aktiebolaget, Trollhattan, Sweden. Turbine disk. 2,651,494, Sept. 8.

Peters, Amandus, P. Forbach, and B. J. Strotman, Casa Grande, Ariz.; said P. Forbach now by change of name B. Forbach. Power-driven harrow. 2,651,246, Sept. 8.

Peterson, Walter R., Hinsdale, Ill., assignor to International Harvester Company. Silo unloader. 2,651,438, Sept. 8.

Phelps Dodge Corporation, assignee: *See*—
Tuwiner, Sidney B.

Phelps, Stuart M.: *See*—
Hewess, Ralph W., and Phelps.

Philco Corporation, assignee: *See*—
Chudleigh, Walter H., Jr.

Phillips-Jones Corporation, assignee: *See*—
McCreery, Robert W.

Pierce, Firth, Altadena, Calif. Field-sensitive hydraulic apparatus. 2,651,258, Sept. 8.

Pinkel, Robert H., Chicago, Ill. Extensometer for testing metal objects. 2,651,196, Sept. 8.

Pitner, Alfred, Paris, assignor to Société dite: Societe Anonyme des Roulements a Aiguilles, Ruell Malmaison, France. Flat bearing means. 2,651,552, Sept. 8.

Pittsburgh Plate Glass Company, assignee: *See*—
Lytle, William O., and Junge.

Platt, John G., assignor to Flex-O-Lators, Inc., Carthage, Mo. Binding strip for spring mattress structures. 2,651,059, Sept. 8.

Plessey Company Limited, The, assignee: *See*—
Trowbridge, David R., and Glover.

Plump, Ralph E., Haddonfield, N. J., assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Halogenated thiophene pesticide. 2,651,579, Sept. 8.

Polsal, Leo F., Somerset, Pa. Emergency grapple. 2,651,539, Sept. 8.

Polanin, Walter R., assignor to American Steel Foundries, Chicago, Ill. Brake head arrangement. 2,651,390, Sept. 8.

Pollak, Abraham, Linfield, Pa. Rip fence for saw tables and mountings therefor. 2,651,337, Sept 8.

Polleys, Herbert R., New Haven, Conn., assignor to United States Rubber Company, New York, N. Y. Shoe press. 2,651,061, Sept. 8.

Pollock, Mark W.: *See*—
Zerner, Ernst, and Pollock.

Poole, William M., Aurora, Ill., assignor to Westinghouse Air Brake Company. Selective point detector mechanism. 2,651,714, Sept. 8.

Poor & Company, assignee: *See*—
Chester, Allan E.

Pope, William O., Greenfield, Ind. Automatic binder for hay balers. 2,651,252, Sept. 8.

Poux, Noel J., Meadville, Pa., assignor to Talon, Inc. Tape for slide fasteners. 2,651,092, Sept. 8.

Power Jets (Research and Development) Limited, assignee: *See*—
Feilden, Geoffrey B. R.

Power, William T., New York, N. Y. Combination crib and playpen. 2,651,057, Sept. 8.

Prendergast, James J., Erie, Pa., assignor to General Electric Company. Fuel oil filter unit. 2,651,418, Sept. 8.

Price, Harold A., San Francisco, and E. H. Vickery, Oakland, Calif., assignors to The Rucker Company. Tare weight scale. 2,651,518, Sept. 8.

Pridham, James E., Parkstone, England. Rotary piston internal-combustion engine. 2,651,177, Sept. 8.

Priestley, Frederick A., London, England. Edge to edge fastening. 2,651,091, Sept. 8.

Prior, Roger A., Pittsfield, Mass., assignor to General Electric Company. Temperature responsive system. 2,651,704, Sept. 8.

Prober, Maurice, Schenectady, N. Y., assignor to General Electric Company. Polymerising phenyltrifluoroethylene. 2,651,627, Sept. 8.

Process Engineers Incorporated, assignee: *See*—
Kelly, Earl M., and Kivari.

Prosek, John R.: *See*—
Harris, Charles D., and Prosek.

Prouty, Robert E.: *See*—
Talmadge, Palmer E., and Prouty.

Pullin, Cyril G., Tadburn, Ampfield, Hampshire, England, assignor, by mesne assignments, to Autogiro Company of America, Philadelphia, Pa. Multiple rotor helicopter. 2,651,480, Sept. 8.

Pulvino, Thomas C.: *See*—
Weber, Carl M., and Pulvino.

Pure Oil Company, The, assignee: *See*—
Alcorn, Irwin W., and Dial.

Querry, Merle V.: *See*—
Baker, Bernard R., and Querry.

Radio Corporation of America, assignee: *See*—
Foster, Harry B., and Parker.
Fredendall, Gordon L.
Linder, Ernest G.
Miller, Charles E.

Ragusin, Peter J., Tinley Park, Ill. Game with ball-operated gates. 2,651,520, Sept. 8.

Ramsay, Erskine, Birmingham, Ala. Mining and handling coal. 2,651,513, Sept. 8.

Ranco Incorporated, assignee: *See*—
Raney, Estel C.

Randall, Ralph R., Freeport, Ill., assignor to Detroit Safety Clutch Corporation, Detroit, Mich. Gearless differential. 2,651,214, Sept. 8.

Raney, Estel C., Delaware, assignor to Ranco Incorporated, Columbus, Ohio. Electric snap switch. 2,651,690, Sept. 8.

Ransburg Electro-Coating Corp., assignee: *See*—
Turner, Robert H.

Rapol, Anton, Egnertsville, assignor to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner system. 2,651,072, Sept. 8.

Rau, Robert S., Fanwood, and W. Rau, assignors to Atlantic Builder's Supply Corp., Chatham, N. J. Carrier for plate-form building material. 2,651,441, Sept. 8.

Rau, Winfield: *See*—
Rau, Robert S. and W.

Rawding, Emerson S.: *See*—
Ashton, Benjamin N., Frain, and Rawding.

Ray, William A., North Hollywood, Calif., assignor to General Controls Co. Diaphragm valve having an adjustably mounted pivoted pilot valve. 2,651,826, Sept. 8.

Raymond Bag Company, The, assignee: *See*—
Moore, Kenneth N.

Raytheon Manufacturing Company, assignee: *See*—
Carwile, Preston B.

Recknagel, Frederick W., assignor to Schatz Manufacturing Company, Poughkeepsie, N. Y. Antifriction bearing structure. 2,651,554, Sept. 8.

Redington, F. B., Co., assignee: *See*—
Malhiot, Clarence J.

Reek, Royal J.: *See*—
Wisman, Franklin O., and Reek.

Reflectotherm, Inc., assignee: *See*—
Mills, Clarence A.

Reigh, Clarence J., Altoona, Pa. Liquid applying device for cables, wires, and the like. 2,651,284, Sept. 8.

Reilly, Arthur, Westbrook, Maine, assignor to S. D. Warren Company, Boston, Mass. Mineral coated paper and coating composition therefor. 2,651,580, Sept. 8.

Reinhardt, John P., Brooklyn, N. Y. Motor operated sectional sliding door. 2,651,860, Sept. 8.

Relaxacizor-Thermatone, Inc., assignee: *See*—
Browner, William J.

Rentschler, Delia J., executrix: *See*—
Rentschler, Mahlon J.

Rentschler, Mahlon J., deceased, Willoughby, Ohio, D. J. Rentschler, executrix. Preparing pure barium and strontium hydroxides. 2,651,563, Sept. 8.

Research Corporation, assignee: *See*—
De Mello, Victor F. B., Hauser, and Lambe.
Goering, Kenneth J., and Bruski.

Revere Copper and Brass Incorporated, assignee: *See*—
Bennett, Irving T.

Rhoads, Ralph W., Sr., Springfield, Mo. Air circulating cooler having a plurality of ice compartments. 2,651,188, Sept. 8.

Rich, Charles W., Chelmsford, assignor to Marconi's Wireless Telegraph Company, Limited, London, England. Modulation control circuits for modulated carrier wave transmitters. 2,651,757, Sept. 8.

Richardson, Lawrence, Cambridge, Mass. Drop table. 2,651,265, Sept. 8.

Richardson, Martin A., assignor to J. I. Case Company, Racine, Wis. Tractor-mounted corn harvester. 2,651,158, Sept. 8.

Richey, Clarence B., Royal Oak, assignor to Dearborn Motors Corporation, Highland Park, Mich. Root crop lifter. 2,651,156, Sept. 8.

Rief, Frank J.: *See*—
Agnew, Albert B., and Rief.

Ritchie, William H., Philadelphia, Pa., and J. T. Humes, Harrisonburg, Va., said Humes assignor to said Ritchie. Typewriter retaining bracket. 2,651,483, Sept. 8.

Ritter Company, Inc., assignee: *See*—
Lauterbach, Norman B.

Robertshaw, Robert G.: *See*—
Lamont, Hugh R. L., and Robertshaw.

Robey & Co. Limited, assignee: *See*—
Crompton, Arthur.

Robinson, Charles S. L.: *See*—
Worthen, Eugene P., and Robinson.

Robinson, Joseph, New York, N. Y. Container closure. 2,651,528, Sept. 8.

Roe, A. V. Canada Limited, assignee: *See*—
Williams, Frederick D. M.

Roe, William C., assignor to The Colson Corporation, Elyria, Ohio. Mop wringer. 2,651,073, Sept. 8.

Roemer, James A., Warren, B. H. McKibben, Niles, and J. R. Corry, Mineral Ridge, assignors, by mesne assignments, to Mallory-Sharon Titanium Corporation, Niles, Ohio. Rolling titanium sheets. 2,651,099, Sept. 8.

Rolls-Royce Limited, assignee: *See*—
Davies, David O.
Davies, Kenneth R., and Herbstritt.
Griffith, Alan A.

Romano, Pasquale A.: *See*—
Corso, Philip J., and Romano.

Root, Andrew A., Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Molding soles and heels to uppers. 2,651,118, Sept. 8.

Rose, Bennie A., Forest Hills, and B. M. Osojnak, assignors to Heyl & Patterson, Inc., Pittsburgh, Pa. Apparatus for loading bulk material into a ship's hold. 2,651,423, Sept. 8.

Rose, Clarence W., Denver, Colo. Safety belt with drawable safety band. 2,651,446, Sept. 8.

Rosenlund, Nils, Brooklyn, N. Y. Means for the setting of saw teeth. 2,651,220, Sept. 8.

Rosenthal, William, Bayville, N. Y. Brassière. 2,651,038, Sept. 8.

Ross, Richard S., Elkins Park, and R. A. Weiner, Philadelphia, Pa. Self-illuminating cosmetic applicator. 2,651,709, Sept. 8.

Ross, Royal E., Dayton, assignor to Harris-Seybold Company, Cleveland, Ohio. Air jet for air film tables. 2,651,549, Sept. 8.

Rossell, William T., New York, N. Y. Hydraulic ratchet or brake. 2,651,386, Sept. 8.

Rossin, Elmer H., Melrose, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Treatment of textile materials. 2,651,587, Sept. 8.

Roth, Ernest R.: *See*—
Hirsch, William T., and Roth.

Roto-Matic Screen Printer, Ltd., assignee: *See*—
Thomas, John B., and Moorhouse.

Rountree, Joseph G., Sr., Beeville, Tex. Rotary cutting disk type lawn mower. 2,651,159, Sept. 8.

Rowe, Russell R., and L. J. Schuppert, Corydon, Ind. Toilet seat cover lock. 2,651,053, Sept. 8.

Rubin, Albert: *See*—
Rubin, Harry L., A., and D.

Rubin, David: *See*—
Rubin, Harry L., A., and D.

Rubin, Harry L., A., and D., Long Beach, Calif. Rug display device. 2,651,127, Sept. 8.

Rucker Company, The, assignee: *See*—
Price, Harold A., and Vickery.

Rule, Joseph D., assignor to Kewanee Industrial Washer Corp., Kewanee, Ill. Cleaning apparatus with lubricator therefor. 2,651,311, Sept. 8.

Runde, Kenneth R., Lemay, assignor to James R. Kearney Corporation, St. Louis, Mo. Electrical line clamp. 2,651,766, Sept. 8.

Runsberg, Herman: *See*—
Williamson, Louis W., and Runsberg.

Russell, Barrett B., III: *See*—
Thwaites, Herman L., and Russell.

Russell, Edward J., Allentown, Pa., assignor to Trojan Powder Company, Treatment of pentaerythritol mother liquor. 2,651,662, Sept. 8.

Rylander, John V., Detroit, Mich. Window structure. 2,651,082, Sept. 8.

S & C Electric Company, assignee: *See*—
Baker, Charles H.
Lindell, Sigurd I.

Sadtler, Philip B., South Norwalk, Conn., assignor of one-half to H. M. Hunter, Brooklyn, N. Y., and one-half to G. D. Dickey, Ridgewood, N. J. Apparatus for evaporation. 2,651,356, Sept. 8.

Safety Car Heating and Lighting Company, Inc., The, assignee: *See*—
Dodds, Robert B., and Hibbs.

St. John, Howard E., assignee: *See*—
Van Dyk, John C.

St. John, Laura P., assignee: *See*—
Van Dyk, John C.

Salzman, Harry E., Bronx, N. Y. Fitting for flush tanks. 2,651,050, Sept. 8.

Samko, John, Jr.: *See*—
Horn, Edward N., and Samko.

Sandvikens Jernaverks Aktiebolag, assignee: *See*—
Hammarström, Johan E.

Sangamo Electric Company, assignee: *See*—
Sharp, Frank A.

San Miguel & Compania, Inc., assignee: *See*—
De la Llana, Isaac P.

Sarett Ben L., assignee: *See*—
Baker, Dwight L.

Sargent, Herbert: *See*—
Ladd, Elbert C., and Sargent.

Sauer, Arthur P., assignor to The Kilborn-Sauer Company, Fairfield, Conn. Rotatably adjustable mount for motorcycle headlights and the like. 2,651,488, Sept. 8.

Schatz Manufacturing Company, assignee: *See*—
Recknagel, Frederick W.

Scheg, Marcian A., assignor to General Railway Signal Company, Rochester, N. Y. Coded track circuit with means to neutralize the inductive kickback from track rails. 2,651,712, Sept. 8.

Schenley Industries, Inc., assignee: *See*—
Schmidt, Hans, and Behnisch.

Schlagel, Charles, Inglewood, Calif. Milling attachment for lathes. 2,651,239, Sept. 8.

Schmerling, Louis, Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Treatment of alumina containing catalytic composites. 2,651,617, Sept. 8.

Schmidt, Hans, Wuppertal-Vohwinkel, and K. Behnisch, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y. Nitroaromatic-benzalthiosemicarbazones. 2,651,660, Sept. 8.

Schnuck, Carl F., North Haven, assignor to Farrel-Birmingham Company, Incorporated, Ansonia, Conn. Roll grinding device. 2,651,152, Sept. 8.

Schoenrock, Otto R., Oak Park, assignor to Dualoc Engineering Co., Rockford Ill. Nontorque-equalizing differential transmission. 2,651,215, Sept. 8.

Schoolcraft, Edwin H., Forest Grove, assignor to Northwest Nut Growers, Portland, Oreg. Method and apparatus for removing pellicle from filbert nut kernels. 2,651,345, Sept. 8.

Schuppert, Leo J.: *See*—
Rowe, Russell R., and Schuppert.

Schutz, Bernard R., New York, N. Y. Baby feeding bottle holder. 2,651,485, Sept. 8.

Schweitzer, Howard V., Shaker Heights, Ohio. Edge-lining machine. 2,651,282, Sept. 8.

Scott, Frederick M.: *See*—
Allyn, William G., Scott, and Greppin.

Seaborne, Charles R., Appleton, assignor to Thilmany Pulp & Paper Company, Kaukauna, Wis. Storage bin. 2,651,447, Sept. 8.

Sealed Power Corporation, assignee: *See*—
Olson, Holly M.

Seeger, Robert W.: *See*—
Felts, Gordon P., and Seeger.

Seely, Richard E., Fort Wayne, Ind., assignor to General Electric Company. Thermal overload switch. 2,651,696, Sept. 8.

Seko, Kaichi, assignor of one-fourth to M. Tsubota, Seattle, Wash. Conformable toothbrush and tongue scraper. 2,651,068, Sept. 8.

Selson, Elener V., Hollywood, Calif. Head conforming mounting for adjustably positionable hair pieces. 2,651,310, Sept. 8.

Sensel, Eugene E., Beacon, assignor to The Texas Company, New York, N. Y. Catalytic synthesis of hydrocarbons and oxygenated organic compounds. 2,651,652, Sept. 8.

Shanklin, Dunbar L.: *See*—
Cooper, Henry E., and Shanklin.

Shannon, Jean R., assignor to The Four Wheel Drive Auto Company, Clintonville, Wis. Apparatus for high-speed snow removal without windrowing. 2,651,121, Sept. 8.

Sharp, Frank A., Enfield, England, assignor to Sangamo Electric Company, Springfield, Ill. Magnetic bearing suspension for electric measuring instruments. 2,651,550, Sept. 8.

Sharps, George J., assignor to P & K Incorporated, Momence, Ill. Fish lure. 2,651,133, Sept. 8.

Sheffield Corporation, The, assignee: *See*—
Aller, Willis F.

Shell Development Company, assignee: *See*—
Deahl, Thomas J., Stross, and Taylor.
De Nie, Willem L. J.
Matthews, John B., Evans, Hutton, and Cliffe.
Shokal, Edward C., Newey, and Bradley.

Shelton, Orville W., assignee: *See*—
Lens, Bernhart J.

Shenkman, Sidney, New York, N. Y. Hat pinch form. 2,651,045, Sept. 8.

Shepard, Stanley C.: *See*—
Jacobsen, Bent B., Daly, Thomas, Wolfson, Shepard, and Green.

Sherman, Rallston M., Glastonbury, assignor to The Silent Glow Oil Burner Corporation, Hartford, Conn. Apparatus for producing a heated gaseous medium. 2,651,514, Sept. 8.

Shokal, Edward C., Walnut Creek, H. A. Newey, Richmond, and T. F. Bradley, Oakland, assignors to Shell Development Company, San Francisco, Calif. Forming cured glycidyl ether resinous bonds between two solid surfaces. 2,651,589, Sept. 8.

Sho-Me, Inc., assignee: *See*—
Fitzgerald, Maurice.

Shore, Harry T., executor: *See*—
Shore, Henry T.

Shore, Henry T., deceased, Savannah, Ga.; H. T. Shore, Jr., executor of said H. T. Shore. Apparatus for processing liquids to convert them into semisolid or solid form. 2,651,185, Sept. 8.

Shotton, John C., Lakewood, Ohio. Paint spray attachment device. 2,651,545, Sept. 8.

Siegenthaler, Walter, assignor to Maschinenfabrik Schärer, Erlenbach, Switzerland. Pneumatic waste collector on thread-working textile machines. 2,651,473, Sept. 8.

Sifferd, Robert H., Joliet, assignor, by mesne assignments, to Armour and Company, Chicago, Ill. Preparation of dehydrocholic acid. 2,651,642, Sept. 8.

Sifferd, Robert H., Joliet, and J. J. Svarz, assignors, by mesne assignments, to Armour and Company, Chicago, Ill. Purification of desoxycholic acid. 2,651,643, Sept. 8.

Silent Glow Oil Burner Corporation, The, assignee: *See*—
Sherman, Rallston M.

Simmonds Aerocessories Inc., assignee: *See*—
Smith, Stanley J., and Isreeli.

Simon, Lewis B., Flushing, N. Y. Container transferring apparatus. 2,651,425, Sept. 8.

Simonis, Edward A., and F. R. Heath, Harrow, assignors to D. Napier & Son Limited, London, England. Liquid pump. 2,651,553, Sept. 8.

Simons, Joseph H., and R. D. Dunlap, State College, Pa., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Silicon halides containing fluorocarbon radicals. 2,651,651, Sept. 8.

Simpson, Otis F.: *See*—
Burke, William F., and Simpson.

Sinclair, Harold, London, England. Change-speed gearing. 2,651,394, Sept. 8.

Sinquefield, Charles A.: *See*—
Harris, Samuel A., and Sinquefield.

Sjöström, Sture, Simrishamn, assignor to A B Svenska Skollästfabriken, Jarrestad, Sweden. Manufacturing shoe lasts. 2,651,339, Sept. 8.

Skuttle Manufacturing Company, assignee: *See*—
Bottum, Edward W.

Skwark, Marion E., Binghamton, N. Y. Venetian blind cover. 2,651,357, Sept. 8.

Slonneger, John L., Morrison, Ill., assignor to General Electric Company. Condition responsive electric switch mechanism. 2,651,692, Sept. 8.

Slopa, George W. and R. E., Chicago, Ill. Adjustable door closing device. 2,651,074, Sept. 8.

Slopa, Robert E.: *See*—
Slopa, George W. and R. E.

Smiley, Yale H., Kitchener, Ontario, Canada, assignor to United States Rubber Company, New York, N. Y. Apparatus for pressing laminated materials. 2,651,062, Sept. 8.

Smith, David E. D.: *See*—
Le Febvre, Arthur H., and Smith.

Smith, John J.: *See*—
Mueller, Frank H., and Smith.

Smith, Kline & French Laboratories, assignee: *See*—
Whitecar, Alten E.

Smith, Raymond E., Sr., Waukegan, Ill. Sheet metal bending brake. 2,651,340, Sept. 8.

Smith, Stanley J., Ossining, and J. Isreell, New York, assignors to Simmonds Aerocessories Inc., Tarrytown, N. Y. Timing mechanism. 2,651,361, Sept. 8.

Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Resilient locking means. 2,651,531, Sept. 8.

Snow, Harold A., West Orange, N. J., assignor to Federal Products Corporation, Providence, R. I. Gauge head. 2,651,762, Sept. 8.

Societe Anonyme dite Centre d'Etudes M. B. A. (Mecanique, Ballistique, Armement), assignee: *See*—
Gourdon, Robert.

Société d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine, assignee: *See*—
Néel, Louis.

Société dite: Societe Anonyme des Roulements a Aiguilles, assignee: *See*—
Pitner, Alfred.

Societe Generale Metallurgique de Hoboken, assignee: *See*—
De Merre, Marcel.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Moulthrop, Benjamin L.

Solvay & Cie, assignee: *See*—
Leblon, Emile.

Southern, Raymond L., Troy, N. Y., assignor to Allegheny Ludlum Steel Corporation, Brackenridge, Pa. Crucible interchanging mechanism for arc melting furnaces. 2,651,668, Sept. 8.

Sparks-Withington Company, assignee: *See*—
Best, Cleafe A., and Johnson.

Spear, Walter E.: *See*—
Ehrenberg, Werner, and Spear.

Sperry Corporation, The, assignee: *See*—
Bergey, Stanley L., and Nottingham.
Clurman, Stanley P.
Palmer, Winslow.

Spertus, Maurice, Highland Park, Ill. Picture frame for colored photographs. 2,651,129, Sept. 8.

Spilhaus, Athelstan F.: *See*—
Brady, James M., and Spilhaus.

Spinney, Chester L., Barre, Mass. Worktable fixture for portable motor-driven saws. 2,651,333, Sept. 8.

Stafford, John A., Tu'sa, Okla., assignor to Century Geophysical Corporation. Seismic vibration detector. 2,651,769, Sept. 8.

Stagg, Irving, Wayne, Mich. Log sawmill for small dimension timber. 2,651,335, Sept. 8.

Stahmer, Bernhardt, Omaha, Nebr. Feed mechanism for potato chip machines. 2,651,435, Sept. 8.

Stahmer, Bernhardt, Omaha, Nebr. Lifting magnet. 2,651,538, Sept. 8.

Stahn, Willy, and H. Wandke, Lubeck, Germany. Clamp for supports for solid ceilings. 2,651,097, Sept. 8.

Standard Oil Company, assignee: *See*—
Krause, Jack H.

Standard Oil Development Company, assignee: *See*—
Abendroth, Guss F., Tausch, and Ward.
Blatz, Leo J.
Booker, John D.
Corner, Eugene S., and Fischl.
Crookston, Robert R., and Waters.
Hemminger, Charles E.
Hill, Boyd N.
Martin, Homer Z., and Lewis.
Mikeska, Louis A., and Eby.
Taff, Wilfred O., and Hardy.
Taff, Wilfred O., and Weikart.
Thwaites, Herman L., and Russell.
Watts, Rhea N., and Billisoly.
Welch, Lester M.

Stanitz, John D., Lakewood, Ohio. Explosion-cycle jet propeller for aircraft propulsion. 2,651,376, Sept. 8.

Stankiewicz, Evangeline R., and M. K. Taylor, Syracuse, N. Y. Scarf hat. 2,651,044, Sept. 8.

Stanworth, Stephen, Burnley, assignor to Thomas Ashworth and Company Limited, Rosegrove, Burnley, England. Warp beam or the like. 2,651,475, Sept. 8.

Stark, Julian H., Fort Wayne, Ind., assignor to General Electric Company. Lundel rotor construction. 2,651,733, Sept. 8.

Starr, John H.: *See*—
Loewen, Roland P., and Starr.

Steel, Inc., assignee: *See*—
Storer, Stacy S., Jr.

Stees, Isaac, Harrisburg, Pa. Portable mold. 2,651,096, Sept. 8.

Steinhardt, I Hartley, New York, N. Y. Puzzle and carrier device. 2,651,522, Sept. 8.

Steinthal, Augustus J., New York, N. Y. Parachute. 2,651,481, Sept. 8.

Stevens, Edwin G.: *See*—
Glover, William C., Jr., and Stevens.

Stevenson, Arthur M., Antwerp, Ohio. Liquid metering dispenser. 2,651,439, Sept. 8.

Stiebel, Theodor, Holzminden, Weser, Germany. Portable utensil for food and beverage preparation by heat. 2,651,706, Sept. 8.

Stiebing, Heinrich, Hattingen (Ruhr), assignor to Franz Kuhlmann K.-G., Werkstätten für Präzisionsmechanik und Maschinenbau, Wilhelmshaven, Germany. Apparatus for drawing a central perspective representation. 2,651,111, Sept. 8.

Stillwell, Glenn E., Riverside, assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Clamp dagger cam release. 2,651,035, Sept. 8.

Stillwell, Glenn E., Riverside, assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Automatic lidder for boxes varying in length. 2,651,036, Sept. 8.

Stockett, Wiley T., Jr., Woodruff, Ariz. Spool-and-chain log stop and kicker. 2,651,334, Sept. 8.

Stookey, Stanley D., assignor to Corning Glass Works, Corning, N. Y. Photosensitively opacifiable glass. 2,651,145, Sept. 8.

Stookey, Stanley D., assignor to Corning Glass Works, Corning, N. Y. Opacifying the surface of glass articles. 2,651,146, Sept. 8.

Storer, Stacy S., Jr., Atlanta, assignor to Steel, Inc., Scottdale, Ga. Portable grandstand. 2,651,061, Sept. 8.

Storey, Wilbur G., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard and Supply Company, Telephone subset wiring-plan system. 2,651,683, Sept. 8.

Storm, Lynn W., Houston, Tex. Outside pipe cutting tool. 2,651,362, Sept. 8.

Straley, James M., and J. B. Dickey, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. 1,8 - dihydroxy - 5 - nitro - 4 - methylolanilinoanthraquinone compounds and their preparation. 2,651,641, Sept. 8.

Stratmann, Louis C., Jr., New Orleans, La. Decorative tree. 2,651,130, Sept. 8.

Stratton, Frank E., and H. V. Hall, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Reciprocating die press. 2,651,365, Sept. 8.

Straub, Carl, Nebraska City, Nebr. Trailer hoist. 2,651,498, Sept. 8.

Strezynski, George J., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Seal for centrifugal separators. 2,651,455, Sept. 8.

Stross, Fred H.: *See*—
Deahl, Thomas J., Stross, and Taylor.

Strotman, Benjamin J.: *See*—
Peters, Amandus, Forbach, and Strotman.

Summers, William J., assignor to General Patent Corporation, Chicago, Ill. Switch mechanism for coin selectors of the gravity-feed type. 2,651,697, Sept. 8.

Sunbeam Corporation, assignee: *See*—
Bartlett, Edwin S.
Jepson, Ivar.

Sun Chemical Corporation, assignee: *See*—
Horn, Edward N., and Samko.
Zerner, Ernst, and Pollock.

Sun Oil Company, assignee: *See*—
Pearson, John M.

Sunderland, Louis, and E. Florine, Elkins Park, and I. I. Berger, assignors to Louis Sunderland Company, Philadelphia, Pa. Overcoat. 2,651,041, Sept. 8.

Sunderland, Louis, Company, assignee: *See*—
Sunderland, Louis, Florine, and Berger.

Sunstrom, Harold P.: *See*—
Guise, Arthur B., and Sunstrom.

Surles, Donald C., Cisco, Tex. Vertically movable vehicle door structure. 2,651,541, Sept. 8.

Sutton, Donald E., assignor to Hammond Machinery Builders, Inc., Kalamazoo, Mich. Machine for shaving electrotypes, stereotypes, and the like. 2,651,240, Sept. 8.

Svara, Jerry J.: *See*—
Sifferd, Robert H., and Svara.

Svenska Flygmotor Aktiebolaget, assignee: *See*—
Persson, Thure A.

Svensson, Per E., Hagfors, Satra Strand, Sweden. Device for adjusting and operating guides in the procedure of rolling metals. 2,651,225, Sept. 8.

Swank, Inc., assignee: *See*—
Marien, Clement S.

Swart, Gilbert H., assignor to The General Tire and Rubber Company, Akron, Ohio. Curable compounds of unsaturated aldehyde polymers and making the same. 2,651,624, Sept. 8.

Sweet, Ralph C., Steger, Ill. Bait bucket. 2,651,137, Sept. 8.

Swendsen, Jack: *See*—
Zinn, Julius A., Jr., Wennberg, and Swendsen.

Sylvan, Joseph, Berkley, Mich. Window frame assembly. 2,651,393, Sept. 8.

Syrovy, Augustin J., W. T. Dunn, and R. T. Bucy, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Clutch construction. 2,651,395, Sept. 8.

Taff, Wilfred O., and R. L. Hardy, Cranford, N. J., assignors to Standard Oil Development Company. Reducing contaminants on finely divided catalyst. 2,651,600, Sept. 8.

Taff, Wilfred O., Cranford, and J. Weikart, Elizabeth, N. J., assignors to Standard Oil Development Company. Preparation of feed material for the conversion of hydrocarbons. 2,651,601, Sept. 8.

Talburt, William F., Berkeley, and D. G. Guadagni, Lafayette, Calif., assignors to the United States of America as represented by the Secretary of Agriculture. Fruit-containing frozen confections and producing the same. 2,651,575, Sept. 8.

Talmadge, Palmer C., J. D. Zartman, and R. E. Prouty, assignors to Essex Wire Corporation, Logansport, Ind. Electrical overload protector. 2,651,748, Sept. 8.

Talon, Inc., assignee: *See*—
Poux, Noel J.

Tausch, Gilbert H.: *See*—
Abendroth, Guss F., Tausch, and Ward.

Taylor, Hugh B., Waverly, assignor to Ingersoll-Rand Company, New York, N. Y. Disengaging mechanism for multiple nut runners. 2,651,228, Sept. 8.

Taylor, Marion D.: *See*—
Deahl, Thomas J., Stross, and Taylor.

Taylor, Mary K.: *See*—
Stankiewicz, Evangeline R., and Taylor.

Teichmann, Charles F., Mount Vernon, assignor to Texaco Development Corporation, New York, N. Y. Drilling wells. 2,651,500, Sept. 8.

Terminal Warehouse Company, assignee: *See*—
Dickson, Benjamin A.

Tesa S. A., assignee: *See*—
De Mestral, George.

Texaco Development Corporation, assignee: *See*—
Teichmann, Charles F.

Texas Company, The, assignee: *See*—
Sensel, Eugene E.

Texas Instruments Incorporated, assignee: *See*—
Perry, Edward G., Jr., and Olson.

Tharp, Nelson B., Ellicott City, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Balanced circuit for radio apparatus. 2,651,685, Sept. 8.

Theile, Richard, assignor to Cathodeon Limited, Cambridge, England. Television transmission from intermittent film by means of pulsed pickup tube. 2,651,674, Sept. 8.

Thilmany Pulp & Paper Company, assignee: *See*—
Seaborne, Charles R.

Thomas & Betts Co., The, assignee: *See*—
Bergan, Martin D.

Thomas, David L.: *See*—
Jacobsen, Bent B., Daly, Thomas, Wolfson, Shepard, and Green.

Thomas, John B., Watertown, Conn., and C. E. Moorhouse, West Englewood, N. J., assignors to Roto-Matic Screen Printer, Ltd., New York, N. Y. Stencil printing apparatus. 2,651,257, Sept. 8.

Thoren, Robert E., Moses Lake, Wash. Rider propelled toy vehicle. 2,651,527, Sept. 8.

Threedy, Clarence E., trustee, assignee: *See*—
Patzer, William.

Thwaites, Herman L., Clark Township, Union County, and B. B. Russell, 3rd, Elizabeth, N. J., assignors to Standard Oil Development Company. Process and apparatus for operating engines at high altitudes. 2,651,173, Sept. 8.

Timken-Detroit Axle Company, The, assignee: *See*—
Alden, Herbert W.

Tobe Deutschmann Corporation, assignee: *See*—
Dévot, André J.

Toelke, Lester W., Houston, Tex. Apparatus for plugging wells. 2,651,371, Sept. 8.

Toennies, Owe M., assignors to The E. Kahn's Sons Company, Cincinnati, Ohio. Shrinking machine. 2,651,313, Sept. 8.

Tondreau, Albert W., Westwood Village, and F. W. Gage, Beverly Hills, assignors to Warner Bros. Pictures, Inc., Burbank, Calif. Composite photography. 2,651,233, Sept. 8.

Tondreau, Albert W., Los Angeles, assignor to Warner Bros. Pictures, Inc., Burbank, Calif. Means for rapidly processing photographic film. 2,651,245, Sept. 8.

Tonkens, Rosalie R., Cincinnati, Ohio, and A. N. Gunther, Grand Rapids, Mich., said Gunther assignor to said Tonkens. Unitary bib and tissue dispenser. 2,651,039, Sept. 8.

Toth, Emerick, Takoma Park, Md. Variable band-width transformer. 2,651,761, Sept. 8.

Tower, Ralph S., Cottage Grove, and F. M. Burton, Eugene, Oreg. Saw sharpener. 2,651,219, Sept. 8.

Townsend, Frederick H., and H. S. Hall, assignors to Cathodeon Limited, Cambridge, England. Alarm switch device. 2,651,687, Sept. 8.

Trapani, Joseph, Brooklyn, N. Y. Seam binding attachment for sewing machines. 2,651,273, Sept. 8.

Trenholm, John B., Jr.: *See*—
Young, Don W., and Trenholm.

Trico Products Corporation, assignee: *See*—
Rapol, Anton.

Triplett Electrical Instrument Company, The, assignee: *See*—
Triplett, Ray L.

Triplett, Ray L., assignor to The Triplett Electrical Instrument Company, Bluffton, Ohio. Electrical measuring instrument with range and multiplying factor indicator. 2,651,755, Sept. 8.
Trojan Powder Company, assignee: *See*—
Russell, Edward J.
Trowbridge, David R., Emerson Park, Hornchurch, and L. Glover, Upminster, assignors to The Plessey Company Limited, Ilford, England. Overspeed control means for rotary motion. 2,651,388, Sept. 8.
Troy, Leonard, Clarks Summit, Pa. Thermostatic mixing valve. 2,651,467, Sept. 8.
Troy Sunshade Company, The, assignee: *See*—
Witty, James C.
Tsubota, Min, assignee: *See*—
Seko, Kaichi.
Turner, George L.: *See*—
Elliott, Morris R., and Turner.
Lapsley, Robert, and Turner.
Turner, Ransom H., Great Neck, N. Y., assignor to Mergenthaler Linotype Company. Keyboard mechanism of the power-operated type. 2,651,406, Sept. 8.
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Movable thread holder for looms. 2,651,331, Sept. 8.
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread holder for looms. 2,651,332, Sept. 8.
Turner, Robert H., assignor to Ransburg Electro-Coating Corp., Indianapolis, Ind. Electrostatic coating apparatus. 2,651,287, Sept. 8.
Tuwiner, Sidney B., Baldwin, assignor to Phelps Dodge Corporation, New York, N. Y. Reaction product of a xanthate, and inorganic sulfide and a copper salt. 2,651,649, Sept. 8.
Union Carbide and Carbon Corporation, assignee: *See*—
Carosella, Michael C., and Mettler.
Hendry, James M.
Union Oil Company of California, assignee: *See*—
Berg, Clyde H. O., and Imhoff.
Union Starch & Refining Company, assignee: *See*—
Cleland, James E., Curry, and Meyer.
Longenecker, Joseph B., and Cleland.
United Aircraft Corporation, assignee: *See*—
Kennedy, William G.
United Aircraft Products, Inc., assignee: *See*—
Clark, Warren H., and Mead.
United Concrete Pipe Corporation, assignee: *See*—
James, Kenneth E.
United Shoe Machinery Corporation, assignee: *See*—
Hill, Roscoe L., and Ireland.
Root, Andrew A.
Stratton, Frank E., and Hall.
Woodman, Charles K.
United States Atomic Energy Commission, United States of America, as represented by the, assignee: *See*—
Baker, William R.
Fowler, Robert D., and Burford.
Froman, Darol K., Hinch, and Watts.
Heath, Howard R.
United States Rubber Company assignee: *See*—
Ladd, Elbert C., and Harvey.
Ladd, Elbert C., and Sargent.
Lynch, James F.
Polleys, Herbert R.
Smiley, Yale H.
Warren, John C. R., and Kulka.
Universal Oil Products Company, assignee: *See*—
Bergman, Donald J.
Schmerling, Louis.
Universal Paper Bag Co., assignee: *See*—
Bennett, Richard F.
Universal Railway Devices Co., assignee: *See*—
Wilson, Jack.
University of Minnesota, Regents of the, assignee: *See*—
Gisvold, Ole.
Uttley, Albert M., Great Malvern, S. W. Noble, Upper Colwall, L. H. Bannister, Great Malvern, and G. Ord, Stockton-on-Tees, assignors to National Research Development Corporation, London, England. Electronic valve circuits. 2,651,717, Sept. 8.
Vail Manufacturing Company, assignee: *See*—
Vail, Walter J. and R. B., Demerath, Dugin, and Nyberg.
Vail, Richard B.: *See*—
Vail, Walter J. and R. B., Demerath, Dugin, and Nyberg.
Vail, Walter J. and R. B., L. Demerath, L. J. Dugin, and C. E. Nyberg, assignors to Vail Manufacturing Company, Chicago, Ill. Desk stapler. 2,651,034, Sept. 8.
Van Buul, Everardus W. C., assignor to N. V. Vereenigde Tabaksindnstrieen Mignot & De Block, Eindhoven, Netherlands. Device for applying a wrapper to a bunch of cigarillos or cigars. 2,651,306, Sept. 8.
Vanderbilt, R. T., Company, Inc., assignee: *See*—
Karsten, Kenneth S.
Wheeler, Gordon K.
Van der Mark, Gerrit and K., assignors to K. van der Mark and Duintjer Wilkens Meihuizen & Co., Veendam, Netherlands. Centrifuge. 2,651,416, Sept. 8.
Van der Mark, Kornelis, assignee: *See*—
Van der Mark, Gerrit and K.
Vanderwall, Clifford C., assignor to Ansul Chemical Company, Marinette, Wis. Nozzle construction. 2,651,372, Sept. 8.
Van Dusen, James P., Richmond, Va. Roll stand for flying splices. 2,651,474, Sept. 8.
Van Dyk, John C., Bernardsville, assignor, by mesne assignments, to H. E. and L. P. St. John, Mendham, N. J. Alkaline treating method for obtaining ramie and other fibers. 2,651,571, Sept. 8.
Van Overeem, Marinus L., Hilversum, Netherlands. Plural worm drive. 2,651,217, Sept. 8.
Vásquez, Conrad, New York, N. Y. Display device. 2,651,116, Sept. 8.
Vaughn, Ralph A.: *See*—
Fowler, Jefferson D., and Vaughn.
Vecchia, Daniel S.: *See*—
Bodolay, Stephen M., and Vecchia.
Vicars T. & T. Limited: *See*—
Naylor, Joseph F.
Vickery, Edgar H.: *See*—
Price, Harold A., and Vickery.
Victor Manufacturing & Gasket Co., assignee: *See*—
Kosatka, Thomas O.
Vincent, Walter R., Hudson, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Conveyer and transfer apparatus. 2,651,401, Sept. 8.
Voleau, Jules P., Boulogne-sur-Seine, assignor to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude, Paris, France. Gas and liquid contact apparatus. 2,651,512, Sept. 8.
Volk, Emil A., Jr., Hasbrouck Heights, assignor to Bendix Aviation Corporation, Teterboro, N. J. Gas turbine engine starter. 2,651,493, Sept. 8.
Von Hofe, George W., Bound Brook, assignor to New Jersey Machine Corporation, Hoboken, N. J. Label applying mechanism. 2,651,429, Sept. 8.
Vonk, Cornelius G., Herrin, assignor to Borg-Warner Corporation, Chicago, Ill. Water volume control. 2,651,693, Sept. 8.
Wales, George F., Kenmore, N. Y. Game piece with punch. 2,651,521, Sept. 8.
Walker, Delos A., Memphis, Tenn., assignor to International Harvester Company. Cotton picker spindle. 2,651,161, Sept. 8.
Wallich, Fred R., Los Angeles, Calif. Hand use stencil pad unit. 2,651,255, Sept. 8.
Wandke, Hermann: *See*—
Stahn, Willy, and Wandke.
Ward, Jeremiah, III: *See*—
Abendroth, Guss F., Tausch, and Ward.
Warner, Arthur J., and S. G. Foord, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Methods and apparatus for growing crystals. 2,651,566, Sept. 8.
Warner Bros. Pictures, Inc., assignee: *See*—
Tondreau, Albert W.
Tondreau, Albert W., and Gage.
Warner, Wilbur W., Fort Wayne, Ind., assignor to General Electric Company. Instantly reversible motor. 2,651,747, Sept. 8.
Warren, Glenn B.: *See*—
Buckland, Bruce O., and Warren.
Warren, Henry E., assignor to Lombard Governor Corporation, Ashland, Mass. Chain saw. 2,651,336, Sept. 8.
Warren, John C. R., Elmira, Ontario, and M. Kulka, Guelph, Ontario, Canada, assignors to United States Rubber Company, New York, N. Y. Preparation of 2,4-dichlorophenoxyacetic acid. 2,651,659, Sept. 8.
Warren, Otto J., Fort Worth, and V. W. Hair, Dublin, Tex. Bowl adjustment for carry-type scrapers. 2,651,124, Sept. 8.
Warren, S. D., Company, assignee: *See*—
Reilly, Arthur.
Waters, James S.: *See*—
Crookston, Robert R., and Waters.
Waterval, William, Brooklyn, N. Y. Socket reducing means for box-type wrenches. 2,651,230, Sept. 8.
Watts, Rhea N., and J. P. Billisoly, Baton Rouge, La., assignors to Standard Oil Development Company. Treating conversion catalysts. 2,651,599, Sept. 8.
Watts, Richard J.: *See*—
Froman, Darol K., Hinch, and Watts.
Wayman, Albert J., East Palestine, Ohio. Watertight cable connector. 2,651,529, Sept. 8.
Weber, Carl M., and T. C. Pulvino, assignors to Weber Machine Corporation, Rochester, N. Y. Bowling pin lifting and resetting apparatus. 2,651,519, Sept. 8.
Weber, Gay W., Erie, Pa., assignor to General Electric Company. Direct current supply system. 2,651,749, Sept. 8.
Weber Machine Corporation, assignee: *See*—
Weber, Carl M., and Pulvino.
Webster-Chicago Corporation, assignee: *See*—
Dale, Colin B.
Weems, Joe B., Dickson, Tenn. Blade and tool holder. 2,651,108, Sept. 8.
Weikart, John: *See*—
Taf, Wilfred O., and Weikart.
Weiner, Robert A.: *See*—
Ross, Richard S., and Weiner.

Welch Allyn, Inc., assignee: *See*—
Allyn, William G., Scott, and Greppin.
Welch, Lester M., Madison, N. J., assignor to Standard Oil Development Company. Alkylating polystyrene. 2,651,626, Sept. 8.
Welch, Nicholas A., West Hartford, assignor to The American Hardware Corporation, New Britain, Conn. Latch spindle lock. 2,651,193, Sept. 8.
Wellwood, Robert C., Pittsburgh, Pa. Car brake slack adjuster. 2,651,389, Sept. 8.
Wennberg, Odd: *See*—
Zinn, Julius A., Jr., Wennberg, and Swendsen.
West, Harold W.: *See*—
Parks, Winifred E., and West.
Westberg, Harold A., assignor to The Wyatt Manufacturing Co., Inc., Salina, Kans. Grain treatment means. 2,651,285, Sept. 8.
Western Electric Company, Incorporated, assignee: *See*—
Clemons, Dale R.
Jespersen, Helgo W.
Western Engineering Trust, assignee: *See*—
Nardulli, Michael J.
Westinghouse Air Brake Company, assignee: *See*—
Florencourt, Frank B.
Gracey, William R., Jr.
Poole, William M.
Westinghouse Electric Corporation, assignee: *See*—
Beese, Norman C.
Corbett, Francis P.
Esselman, Walter H.
Longini, Richard L., and Hushley.
Marshall, Donald E.
Tharp, Nelson E.
Weston Electrical Instrument Corporation, assignee: *See*—
Lamb, Anthony H.
Wheelcraft Corporation, assignee: *See*—
Dodge, Ralph O.
Wheeler, Gordon K., Norwalk, Conn., assignor to R. T. Vanderbilt Company, Inc., New York, N. Y. Preparation of ortho-phenanthroline. 2,651,636, Sept. 8.
Whims, Charles C., Columbus, Ohio. Jet pump for jet propulsive apparatus. 2,651,452, Sept. 8.
Whisler, Paul A., La Porte, Ind., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Forage harvester. 2,651,162, Sept. 8.
White, Blanche B., Summit, and E. Barabash, New Providence, N. J., assignors to Celanese Corporation of America, New York, N. Y. Cellulose esters. 2,651,629, Sept. 8.
White, Eric L. C., Iver, England, assignor to Electric and Musical Industries, Limited. Circuits for modifying potentials. 2,651,719, Sept. 8.
Whitecar, Alten E., Westville, N. J., assignor to Smith, Kline & French Laboratories, Philadelphia, Pa. Article counting machine. 2,651,466, Sept. 8.
Whittier, Earle O., Washington, D. C., dedicated to the free use of the People of the United States. Making candles, confections, icings, and the like and the resulting product. 2,651,574, Sept. 8.
Wied, Carl A., Stockport, N. Y., assignor of one-fifth to I. Richard Paris, Washington, D. C. Method and apparatus for cleaning fiber treating machines. 2,651,060, Sept. 8.
Wilhelm Fette Praxisionswerkzeug-Fabrik, assignee: *See*—
Erdélyi, Ferenc.
Williams, Frederick D. M., Weston, Ontario, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada. Combination injector and stabiliser for gas turbine afterburners. 2,651,178, Sept. 8.
Williams, Harry E., Chicago, Ill. Score registering device. 2,651,464, Sept. 8.
Williams, Rollo G., Great Neck, N. Y., assignor, by mesne assignments, to Duro-Test Corporation, North Bergen, N. J. Lighting control system. 2,651,743, Sept. 8.
Williams, William A., assignor to The American Pulley Company, Philadelphia, Pa. Adjustable diameter sheave. 2,651,209, Sept. 8.
Williamson, Louis W., Minneapolis, and H. Runsberg, assignors to Minneapolis-Moline Company, Hopkins, Minn. Horn gate mechanism. 2,651,088, Sept. 8.
Wilson, Jack, Chicago, Ill., assignor to Universal Railway Devices Co. Geared hand brake. 2,651,213, Sept. 8.
Wilson, Lawrence A., Garden City, and B. M. Durfee, Binghamton, assignors to International Business Machines Corporation, New York, N. Y. Accumulator entry control means for record controlled machines. 2,651,460, Sept. 8.
Wilson, Michael T.: *See*—
Bray, Frederick H., Wilson, Ormrod, and Johnstone.
Winther, Anthony Kenosha, Wis., assignor, by mesne assignments, to Eaton Manufacturing Company, Cleveland, Ohio. Electromagnetic vibrating contact device and control. 2,651,732, Sept. 8.
Wisconsin Alumni Research Foundation, assignee: *See*—
Heine, Richard W.
Wisman, Franklin O., and R. J. Reek, assignors to Bendix Aviation Corporation, South Bend, Ind. Brush holder for electrical machinery. 2,651,735, Sept. 8.
Wissel, Francis A., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Plural time constant circuits for noise immunity. 2,651,675, Sept. 8.
Witty, James C., assignor to The Troy Sunshade Company, Troy, Ohio. Umbrella. 2,651,315, Sept. 8.
Wolfson, Henry: *See*—
Jacobsen, Bent B., Daly, Thomas, Wolfson, Shepard, and Green.
Wollmer, Roger E.: *See*—
Loock, Gerald H., and Wollmer.
Wood, Manson E.: *See*—
Casey, Francis B., Woodcock, and Wood.
Wood, Marion L., Highland, assignor to International Business Machines Corporation, New York, N. Y. Semiconductor trigger circuit. 2,651,728, Sept. 8.
Woodcock, Robert R.: *See*—
Casey, Francis B., Woodcock, and Wood.
Woodman, Charles K., Beverley, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Apparatus for applying pressure to shoe bottoms. 2,651,064, Sept. 8.
Woodward Lumber Company, Inc., assignee: *See*—
Woodward, Sherrill W.
Woodward, Sherrill W., assignor to Woodward Lumber Company, Inc., Brattleboro, Vt. Pallet. 2,651,486, Sept. 8.
Woolman, Ronald: *See*
Hall, Alan M., and Woolman.
Worthen, Eugene P., Braintree, and C. S. L. Robinson, West Newton, Mass., assignors to Bethlehem Steel Company. Oil separator. 2,651,415, Sept. 8.
Wray, Alfred W., and M. S. Baldwin, Detroit, Mich. Holder for gummed paper. 2,651,420, Sept. 8.
Wurm, Max, Detroit, Mich. Combination extension table with folding top. 2,651,585, Sept. 8.
Wurmser, Alphons V.: *See*—
Edwards, Paul G., and Wurmser.
Wyatt Manufacturing Co., Inc., The, assignee: *See*—
Westberg, Harold A.
Yellott, John I., Baltimore, Md., assignor to Bituminous Coal Research, Inc., Washington, D. C. Coal fired gas turbine power plant. 2,651,176, Sept. 8.
Yonkers, Edward H., Jr., Glencoe, Ill. Suction cleaner. 2,651,383, Sept. 8.
York Nut Sheller Co., Inc., assignee: *See*—
Harless, Charles L.
Young, Don W., and J. B. Trenholm, Jr., Dayton, Ohio. Graph plotting machine. 2,651,400, Sept. 8.
Young, Earle A.: *See*—
Bennett, Harold F., Young, and Heag.
Young, L. A., Spring & Wire Corporation, assignee: *See*—
Carvelo, William, and Morgan.
Zaccardo, Pascal C., and D. Iannone, Rosedale, N. Y. Phonograph record cabinet with record selecting mechanism. 2,651,556, Sept. 8.
Zartman, John D.: *See*—
Talmadge, Palmer C., Zartman, and Prouty.
Zerbe, Richard O., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Vulcanizing rubber and product thereof. 2,651,625, Sept. 8.
Zerner, Ernst, and M. W. Pollock, New York, assignors to Sun Chemical Corporation, Long Island City, N. Y. Ethylene imine-acrylyl triazine reaction products. 2,651,631, Sept. 8.
Zimmerman, Max, New York, N. Y. Toothbrush. 2,651,070, Sept. 8.
Zinn, Julius A., Jr., Chicago, Ill. Conveyer and adhesive applicator for carton blanks. 2,651,283, Sept. 8.
Zinn, Julius A., Jr., Chicago, Ill., O. Wennberg, Manhasset, and J. Swendsen, Lynbrook, N. Y.; said Wennberg and said Swendsen assignors to said Zinn. Wax coating apparatus. 2,651,284, Sept. 8.
Zublin, John A., Los Angeles, Calif. Stabilized apparatus for drilling curved bores deviating from existing vertical well bores. 2,651,490, Sept. 8.
Zullo, Vincent J., Chicago, Ill. Automobile floor mat frame. 2,651,540, Sept. 8.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 8TH DAY OF SEPTEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Flow valve. W. F. Grisham. Re. 23,710, Sept. 8.
Shirt board and collar protector, Combination. J. A. O'Reilly. Re. 23,712, Sept. 8.
Polythionates as medicinal cosmetics, Stabilized. T. E. Neesby. Re. 23,711, Sept. 8.

LIST OF PLANT INVENTIONS

Peach tree. H. D. Dougherty. 1,216, Sept. 8.

LIST OF DESIGN INVENTIONS

Airplane. R. J. Woods. 170,393, Sept. 8.
Ash tray. S. C. Wenta. 170,392, Sept. 8.
Bracelet or the like. A. Philippe. 170,367, Sept. 8.
Bracelet or the like. A. Philippe. 170,373–4, Sept. 8.
Candy bar or similar article. E. Opler. 170,362, Sept. 8.
Chain for a bracelet or the like, Expansible link. J. V. Saccone. 170,388, Sept. 8.
Chain for a bracelet or the like, Link. A. Philippe. 170,366, Sept. 8.
Chain for a bracelet or the like, Link. A. Philippe. 170,371–2, Sept. 8.
Chain for a necklace or the like, Link. A. Philippe. 170,365, Sept. 8.
Chain for a necklace or the like, Link. A. Philippe. 170,376, Sept. 8.
Chain for a necklace or the like, Link. A. Philippe. 170,380–4, Sept. 8.
Clock or similar article. P. Tailer. 170,391, Sept. 8.
Doll, Pillow. H. Aronov. 170,348, Sept. 8.
Drier, Electric hand. M. Fine. 170,353, Sept. 8.
Drier, Laundry. H. L. Bourner. 170,350, Sept. 8.
Earring or the like. A. Katz. 170,359, Sept. 8.
Earring or the like. A. Philippe. 170,370, Sept. 8.
Earring or the like. A. Philippe. 170,385, Sept. 8.
Fishing reel. H. G. Shakespeare and G. D. Harrington. 170,389, Sept. 8.
Hat. M. Gross. 170,355, Sept. 8.
Incinerator. E. W. Lyons. 170,361, Sept. 8.
Lamp pendant. I. Levin. 170,360, Sept. 8.
Lipstick holder and vanity case or similar article, Combined. F. M. Breen. 170,351, Sept. 8.
Necklace or the like. A. Philippe. 170,368–9, Sept. 8.
Necklace or the like. A. Philippe. 170,375, Sept. 8.
Necklace or the like. A. Philippe. 170,377–9, Sept. 8.
Ornament or similar article, Ear. L. Bell. 170,349, Sept. 8.
Piano or similar article, Spinet. J. Palma, Jr. 170,363, Sept. 8.
Pump. L. E. Russell. 170,387, Sept. 8.
Radio-television cabinet control panel, Combination. S. E. Adler. 170,347, Sept. 8.
Saddlebag, Motorcycle. W. J. Harley. 170,356, Sept. 8.
Shadow box. G. Gast. 170,354, Sept. 8.
Spectacle front, Combination metal and plastic. J. J. Rohrbach. 170,386, Sept. 8.
Stand, Drill mounting. E. W. Buck. 170,352, Sept. 8.
Stove, Heating. C. C. Perry. 170,364, Sept. 8.
Toy, Child's teether. R. M. Hayes. 170,357, Sept. 8.
Tractor. S. Hiller, Jr. 170,358, Sept. 8.
Tumbler or similar article. F. E. Smith. 170,390, Sept. 8.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 8TH DAY OF SEPTEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accumulator entry control means for record controlled machines. L. A. Wilson and B. M. Durfee. 2,651,460, Sept. 8.
Adapter for phonograph records. C. B. Dale. 2,651,523, Sept. 8.
Adjustable dowel pin. A. H. Le Febvre and D. E. D. Smith. 2,651,453, Sept. 8.
Adsorption process. C. H. O. Berg and D. H. Imhoff. 2,651,666, Sept. 8.
Advertising device. R. Burdick. 2,651,128, Sept. 8.
Air charging and air volume control for water systems. A. F. Hancy. 2,651,260, Sept. 8.
Air jet for air film tables. R. E. Ross. 2,651,549, Sept. 8.
Alkaline treating method for obtaining ramie and other fibers. J. C. van Dyk. 2,651,571, Sept. 8.
Alkylating polystyrene. L. M. Welch. 2,651,628, Sept. 8.
Alloys, The production of. R. P. Loewen and J. H. Starr. 2,651,569, Sept. 8.
Amperometric analyzer. J. F. Haller. 2,651,612, Sept. 8.
Amplifier, Traveling wave. A. G. Clavier and E. C. de Faymoreau. 2,651,686, Sept. 8.
Anchor with sliding shackle, Boat. E. H. Jenshak. 2,651,277, Sept. 8.
Angular motion detector and position indicator. W. Palmer. 2,651,771, Sept. 8.
Antenna apparatus. S. L. Bergey and J. A. Nottingham. 2,651,721, Sept. 8.
Antenna having concealed lightning arrester. E. Finkel. 2,651,720, Sept. 8.
Antiocoagulant rodenticide. G. S. Delmar and E. N. Macallum. 2,651,591, Sept. 8.
Antideflection roll assembly. L. Hornbostel. 2,651,103, Sept. 8.
Antideflection roll, assembly, and use. L. Hornbostel. 2,651,241, Sept. 8.
Apparatus for applying pressure to shoe bottoms. C. K. Woodman. 2,651,064, Sept. 8.
Apparatus for automatically controlling the operation of bag sewing machines. K. N. Moore. 2,651,275, Sept. 8.
Apparatus for controlling the operation of domestic water systems. A. P. Brush. 2,651,259, Sept. 8.
Apparatus for cutting metals. R. S. Hahn. 2,651,223, Sept. 8.
Apparatus for drawing a central perspective representation. H. Stiebing. 2,651,111, Sept. 8.
Apparatus for evaporation. P. B. Sadtler. 2,651,356, Sept. 8.
Apparatus for finishing wood flooring units. J. E. Kitterman. 2,651,289, Sept. 8.
Apparatus for fluidizing and pressurizing fire-extinguishing dry chemicals. A. Allen. 2,651,374, Sept. 8.
Apparatus for fluidizing fire-extinguishing dry chemicals. A. B. Guise and H. P. Sunstrom. 2,651,373, Sept. 8.
Apparatus for grinding disks. J. F. Ferm. 2,651,149, Sept. 8.
Apparatus for high-speed snow removal without windrowing. J. R. Shannon. 2,651,121, Sept. 8.
Apparatus for indicating variable conditions in machines. J. R. Engstrom. 2,651,195, Sept. 8.
Apparatus for loading bulk material into a ship's hold. B. A. Rose and B. M. Osojnak. 2,651,423, Sept. 8.
Apparatus for measuring resistance. H. R. Heath. 2,651,751, Sept. 8.
Apparatus for plugging wells. L. W. Toelke. 2,651,371, Sept. 8.
Apparatus for pressing laminated materials. Y. H. Smiley. 2,651,062, Sept. 8.
Apparatus for pressurizing containers for fire-extinguishing dry chemicals. A. B. Guise and A. Allen. 2,651,375, Sept. 8.
Apparatus for processing liquids to convert them into semisolid or solid form. H. T. Shore. 2,651,185, Sept. 8.
Apparatus for producing a heated gaseous medium. R. M. Sherman. 2,651,514, Sept. 8.
Apparatus for the production of screw threads by means of pressing rollers. F. Erdelyi. 2,651,224, Sept. 8.
Apparatus for uniform distribution and contacting of subdivided solid particles. D. J. Bergman. 2,651,565, Sept. 8.
Arc lamp cooling device. C. S. Ashcraft. 2,651,786, Sept. 8.
Assembling and gluing for interlocking containers. E. N. Burnett. 2,651,153, Sept. 8.
Assorting and forwarding mechanism. H. M. Noyes. 2,651,402, Sept. 8.
Attachment for pipe bits. F. H. Mariand. 2,651,308, Sept. 8.
Auto body repairing tool. E. A. Kristen. 2,651,276, Sept. 8.
Automatic pressure measuring and indicating system. A. H. Dickinson. 2,651,204, Sept. 8.
Automatic safety brake. A. H. Genter. 2,651,387, Sept. 8.
Automatic selective and sequential tuner. C. E. Miller. 2,651,397, Sept. 8.
Automatic transmission. T. L. Morris. 2,651,218, Sept. 8.
Automobile floor mat frame. V. J. Zullo. 2,651,540, Sept. 8.
Automobile heater. P. M. Freer. 2,651,505, Sept. 8.
Baby feeding bottle holder. B. R. Schutz. 2,651,485, Sept. 8.
Back or headrest mechanism, Adjustable. P. Billet and L. Levy. 2,651,056, Sept. 8.
Bag: *See*—
Valve bag.
Bag closing and delivery unit. J. W. Carter. 2,651,272, Sept. 8.
Bag holder, carriage, and track assembly. J. W. Carter. 2,651,443, Sept. 8.
Bait bucket. R. C. Sweet. 2,651,137, Sept. 8.
Bait holder for exterminating rodents, Poison. W. M. Malloy. 2,651,138, Sept. 8.
Balance mechanism for watches and clocks. J. English. 2,651,170, Sept. 8.
Balanced plug valve. R. Clade. 2,651,490, Sept. 8.
Band clamp. R. O. Dodge. 2,651,094, Sept. 8.
Bar sealer for plastic films, Rotary. R. S. Mason, J. P. Graham, and H. L. Hearns. 2,651,708, Sept. 8.
Bathing suit. I. Block. 2,651,040, Sept. 8.
Battery, Hermetically sealed storage. G. Neumann. 2,651,669, Sept. 8.
Bearing structure, Antifriction. F. W. Recknagel. 2,651,554, Sept. 8.
Belt-cutting and ripping device. M. C. Ide. 2,651,366, Sept. 8.
Belt with drawable safety band, Safety. C. W. Rose. 2,651,446, Sept. 8.
Beta-ketoalkyl-quinazolones and acid salts thereof and making the same. B. R. Baker and M. V. Querry. 2,651,632, Sept. 8.
Bib and tissue dispenser, Unitary. R. R. Tonkens and A. N. Gunther. 2,651,039, Sept. 8.
Bin, Storage. C. R. Seaborne. 2,651,447, Sept. 8.
Binder for hay balers, Automatic. W. O. Pope. 2,651,252, Sept. 8.
Binder for link chains. W. Call. 2,651,089, Sept. 8.
Binding strip for spring mattress structures. J. G. Platt. 2,651,059, Sept. 8.
Blade and tool holder. J. B. Weems. 2,651,108, Sept. 8.
Body-supporting assemblage, Portable. H. A. Almoslino. 2,651,058, Sept. 8.
Boiler: *See*—
Humidifier boiler.
Bolted bus connector. M. D. Bergan. 2,651,767, Sept. 8.
Bowl adjustment for carry-type scrapers. O. J. Warren and V. W. Hair. 2,651,124, Sept. 8.
Bowling pin lifting and resetting apparatus. C. M. Weber and T. C. Pulvino. 2,651,519, Sept. 8.
Bracket: *See*—
Typewriter retaining bracket.
Brake: *See*—
Automatic safety brake.
Geared hand brake.
Sheet metal bending brake.
Brake. L. C. Brisson. 2,651,384, Sept. 8.
Brake head arrangement. W. R. Polanin. 2,651,390, Sept. 8.
Brake mechanism and handle construction. M. R. Elliott and G. L. Turner. 2,651,379, Sept. 8.
Brake pipe and signal hose coupling gasket groove reconditioning device. J. M. Montgomery. 2,651,066, Sept. 8.
Brassière. W. Rosenthal. 2,651,038, Sept. 8.
Broaching tool. H. W. Jespersen. 2,651,102, Sept. 8.
Brush holder for electrical machinery. F. O. Wisman and R. J. Reek. 2,651,735, Sept. 8.
Bucket, Angularly adjustable boom-suspended. J. M. Johnson. 2,651,424, Sept. 8.
Buckle, Belt. C. S. Marien. 2,651,090, Sept. 8.
Buffing wheel. F. E. Hendrickson. 2,651,151, Sept. 8.
Building structure. H. L. Havens. 2,651,391, Sept. 8.
Burning-in machine. W. F. Burke and O. F. Simpson. 2,651,702, Sept. 8.
Cabinet. J. I. Atkins. 2,651,703, Sept. 8.

Cabinet with record selecting mechanism, Phonograph record. P. C. Zaccardo and D. Iannone. 2,651,556, Sept. 8.
Calculating machine. H. P. Luhn and R. L. Johnson. 2,651,457, Sept. 8.
Calender roll guide and feed mechanism. W. W. Neely. 2,651,242, Sept. 8.
Candies, confections, icings, and the like and the resulting product, Making. E. O. Whittier. 2,651,574, Sept. 8.
Car brake slack adjuster. R. C. Wellwood. 2,651,389, Sept. 8.
Caramel color compositions. J. B. Longenecker and J. E. Cleland. 2,651,576, Sept. 8.
Card punch and die assembly. H. E. Hooe. 2,651,363, Sept. 8.
Carpenter hand plane. L. C. and S. S. Lumetta. 2,651,340, Sept. 8.
Carrier: *See*—
Foldable sign carrier.
Carrier for plate-form building material. R. S. and W. Rau. 2,651,441, Sept. 8.
Cart, Vegetable. J. W. Orendorff. 2,651,426, Sept. 8.
Carton filling machine. C. J. Malhiot. 2,651,442, Sept. 8.
Case: *See*—
Electrotyper's case.
Catalytic synthesis of hydrocarbons and oxygenated organic compounds. E. E. Sensel. 2,651,652, Sept. 8.
Cellulose esters. B. B. White and E. Barabash. 2,651,629, Sept. 8.
Centrifuge. G. and K. van der Mark. 2,651,416, Sept. 8.
Chair with access preventing means. J. D. Fowler and R. A. Vaughn. 2,651,354, Sept. 8.
Change-speed gearing. H. Sinclair. 2,651,394, Sept. 8.
Channel separation light filter. M. E. Hines. 2,651,715, Sept. 8.
Checker-brick, Square. A. B. Agnew and F. J. Rief. 2,651,515, Sept. 8.
Child's portable folding high seat. D. I. and R. D. McWain. 2,651,353, Sept. 8.
Chopper and mixer, Automatic salad. M. M. Alexander. 2,651,343, Sept. 8.
Circuit: *See*—
Ionization chamber circuit. Semiconductor trigger circuit.
Modulation circuit.
Circuit controller, Electric. W. R. Gracey, Jr. 2,651,698, Sept. 8.
Circuit for operating electric discharge devices. E. A. H. French. 2,651,742, Sept. 8.
Circuit for radio apparatus, Balanced. N. B. Tharp. 2,651,685, Sept. 8.
Circuit for television receivers, Brightness control. W. H. Chudleigh, Jr. 2,651,739, Sept. 8.
Circuit interrupter. C. H. Baker. 2,651,695, Sept. 8.
Circuit with means to neutralize the inductive kickback from track rails, Coded track. M. A. Scheg. 2,651,712, Sept. 8.
Circuits, Electronic valve. A. M. Uttley, S. W. Noble, L. H. Bannister, and G. Ord. 2,651,717, Sept. 8.
Circuits for modifying potentials. E. L. C. White. 2,651,719, Sept. 8.
Circuits for modulated carrier wave transmitters, Modulation control. C. W. Rich. 2,651,757, Sept. 8.
Circuits for noise immunity, Plural time-constant. F. A. Wissel. 2,651,675, Sept. 8.
Clamp: *See*—
Band clamp. Hose clamp.
Electrical line clamp.
Hand locking battery cable clamp.
Clamp dagger cam release. G. E. Stilwell. 2,651,035, Sept. 8.
Clamp for scaffolding tubes and like members. A. A. Hobbs. 2,651,532, Sept. 8.
Clamp for supports for solid ceilings. W. Stahn and H. Wandke. 2,651,097, Sept. 8.
Clarification apparatus. E. M. Kelly and A. M. Kivari. 2,651,615, Sept. 8.
Claw for milking machines. H. W. Hein. 2,651,290, Sept. 8.
Clay contacting in the refining of lubricating oil, Process and apparatus for. H. R. Davis and C. F. Montross. 2,651,602, Sept. 8.
Cleaner: *See*—
Plumbing trap cleaner. Suction cleaner.
Cleaning and extracting apparatus. J. F. Horvath. 2,651,190, Sept. 8.
Cleaning apparatus with lubricator therefor. J. D. Rule. 2,651,311, Sept. 8.
Cleaning fiber treating machines, Method and apparatus for. C. A. Wied. 2,651,080, Sept. 8.
Clip: *See*—
Rail-fastening clip.
Clock and correction mechanism therefor, Direct read secondary. A. B. Benson. 2,651,167, Sept. 8.
Clock synchronising apparatus. R. H. Barrows. 2,651,169, Sept. 8.
Closure for processing tanks. G. C. Lowe. 2,651,192, Sept. 8.
Closure for wallets or billfolds. D. J. Nash. 2,651,346, Sept. 8.
Clothes drier. W. B. Milby and A. U. Eslick. 2,651,113, Sept. 8.
Clutch construction. A. J. Syrovy, W. T. Dunn, and R. T. Bucy. 2,651,395, Sept. 8.
Clutch with lubricating means, Electromagnetic. H. S. Beattie. 2,651,396, Sept. 8.
Coating apparatus, Electrostatic. R. H. Turner. 2,651,287, Sept. 8.
Coating composition, Nongiare. E. N. Horn and J. Samko, Jr. 2,651,583, Sept. 8.
Coating machine for edible products. G. G. Oldham. 2,651,286, Sept. 8.
Coding and signalling system. P. G. Edwards and A. V. Wurmser. 2,651,678, Sept. 8.
Coffee maker, Automatic. I. Jepson. 2,651,707, Sept. 8.
Collar, Shirt. R. W. McCreery. 2,651,043, Sept. 8.
Composite photography. A. W. Tondreau and F. W. Gage. 2,651,233, Sept. 8.
Compounds of phosgene, Production of. L. E. Bohl. 2,651,658, Sept. 8.
Computer, Automatic sequence-controlled. H. F. Bennett, E. A. Young, and E. Hoag. 2,651,458, Sept. 8.
Computer, Velocity and direction. J. M. Brady and A. F. Spilhaus. 2,651,459, Sept. 8.
Concentration of amylolytic enzymes. K. J. Goering and V. C. Bruski. 2,651,593, Sept. 8.
Confections, Manufacturing. J. M. Leach. 2,651,573, Sept. 8.
Connector: *See*—
Bolted bus connector.
Watertight cable connector.
Connector for electrical conductors, Tinsel wire. G. P. Felts and R. W. Seeger. 2,651,764, Sept. 8.
Constant viscosity method of lining container closures. H. E. Cooper and D. L. Shanklin. 2,651,586, Sept. 8.
Container: *See*—
Sealed container. Sealed shipping container.
Container closure. J. Robinson. 2,651,528, Sept. 8.
Container construction. E. N. Burnett. 2,651,449, Sept. 8.
Container for holding and transporting materials to be held separately. M. Fitzgerald. 2,651,436, Sept. 8.
Container for hypodermic needles. S. N. Blackman. 2,651,407, Sept. 8.
Container transferring apparatus. L. B. Simon. 2,651,425, Sept. 8.
Control device. G. R. Acklin and H. E. Perrey. 2,651,744, Sept. 8.
Control device. J. J. Gano. 2,651,746, Sept. 8.
Control device. F. T. Irgens. 2,651,296, Sept. 8.
Control device. W. W. Mathews. 2,651,262–3, Sept. 8.
Control device for refrigeration system. C. W. Coblentz. 2,651,691, Sept. 8.
Control for internal-combustion engines. J. M. Eastman. 2,651,297, Sept. 8.
Control mechanism for motor operated chairs and the like. N. E. Lauterbach. 2,651,351, Sept. 8.
Control system for refrigerant condensing units. W. F. Borgerd. 2,651,182, Sept. 8.
Controlling combustion system of gas-turbine engines. A. A. Griffith. 2,651,175, Sept. 8.
Conveyer and adhesive applicator for carton blanks. J. A. Zinn, Jr. 2,651,283, Sept. 8.
Conveyer and transfer apparatus. W. R. Vincent. 2,651,401, Sept. 8.
Conveyer for self-loading road building machines, Earth moving and vehicle propelling. H. R. Miller. 2,651,120, Sept. 8.
Cooler having a plurality of ice compartments, Air circulating. R. W. Rhoads, Sr. 2,651,188, Sept. 8.
Cooling means for variable area nozzles. W. G. Kennedy. 2,651,172, Sept. 8.
Copper diammonium pentachlorophenolate. F. J. Meyer. 2,651,648, Sept. 8.
Corner fastener for chairs. W. C. Lucas. 2,651,355, Sept. 8.
Corrugated cushion roll. W. F. McGraw. 2,651,398, Sept. 8.
Cosmetic applicator, Self-illuminating. R. S. Ross and R. A. Weiner. 2,651,709, Sept. 8.
Cot and camp chair, Convertible. H. H. Beardsley. 2,651,352, Sept. 8.
Cotton picker spindle. D. A. Walker. 2,651,161, Sept. 8.
Cotton roll holder. J. C. Kanter. 2,651,109, Sept. 8.
Counting machine, Article. A. E. Whitecar. 2,651,466, Sept. 8.
Cove strip. R. Corson. 2,651,066, Sept. 8.
Cover: *See*—
Venetian blind cover. Wheel cover.
Crate, Packing. J. S. Johnson. 2,651,431, Sept. 8.
Crib and playpen, Combination. W. T. Power. 2,651,057, Sept. 8.
Crucible interchanging mechanism for arc melting furnaces. R. L. Southern. 2,651,668, Sept. 8.
Crystallising apparatus. A. Marks. 2,651,564, Sept. 8.
Cultivator, Tractor mounted tree embracing rotary. J. Morkoski. 2,651,249, Sept. 8.
Cuprammonium cellulose solution, Making a. E. J. Courtney. 2,651,581–2, Sept. 8.
Curable compounds of unsaturated aldehyde polymers and making the same. G. H. Swart. 2,651,624, Sept. 8.
Curb hopper, Adjustable. T. J. Achee. 2,651,525, Sept. 8.
Curtain rod bracket elevator. R. E. Bell. 2,651,489, Sept. 8.

Cutter for drills, Rotary. R. D. McMahon. 2,651,501, Sept. 8.
Cutting paper and like webs, Method of and apparatus for. A. Ashman. 2,651,364, Sept. 8.
Cylinder for intaglio printing presses, Impression. W. F. Huck. 2,651,256, Sept. 8.
Cylinder hammer and control therefor, Pneumatic. W. V. Cornett. 2,651,292, Sept. 8.
Dampener, Shimmy. W. H. Clark and T. H. Mead. 2,651,385, Sept. 8.
Decorative tree. L. C. Stratmann, Jr. 2,651,130, Sept. 8.
Degreasing machine or apparatus. S. A. Harris. 2,651,607, Sept. 8.
Dehydration of fatty materials. C. Greenfield. 2,651,647, Sept. 8.
Dehydrator, Mobile. H. C. French. 2,651,269, Sept. 8.
Dehydrobicatechols. O. Gisvold. 2,651,644, Sept. 8.
Dehydrocholic acid, Preparation of. R. H. Sifferd. 2,651,642, Sept. 8.
Derivatives of 1,2,3-trisubstituted pyrazolones and producing such compositions. J. H. T. Ledrut. 2,651,638, Sept. 8.
Device and method for weaving a spiral slide fastener to a narrow fabric simultaneously with the weaving of the fabric. F. C. Mosterts. 2,651,330, Sept. 8.
Device for adjusting and operating guides in the procedure of rolling metals. P. E. Svensson. 2,651,225, Sept. 8.
Device for applying a wrapper to a bunch of cigarillos or cigars. E. W. C. Van Buul. 2,651,306, Sept. 8.
Device for suspending conductors or similar objects from load ropes. R. Marchetti. 2,651,484, Sept. 8.
Device for tempering steam. W. C. Glover, Jr. and E. G. Stevens. 2,651,511, Sept. 8.
Diameter sheave, Adjustable. W. A. Williams. 2,651,209, Sept. 8.
Diaphragm for pressure responsive apparatus and the like and pressure responsive device embodying the same. C. B. Gamble. 2,651,328, Sept. 8.
Diaphragm valve having an adjustably mounted pivoted pilot valve. W. A. Ray. 2,651,326, Sept. 8.
Die for extrusion presses. I. T. Bennett. 2,651,411, Sept. 8.
Differential mounting and carrier. H. W. Alden. 2,651,216, Sept. 8.
Digging and harvesting machine, Onion. E. H. Drake. 2,651,157, Sept. 8.
Direct current supply system. G. W. Weber. 2,651,749, Sept. 8.
Disengaging mechanism for multiple nut runners. H. B. Taylor. 2,651,228, Sept. 8.
Dispenser: *See*—
Liquid metering dispenser. Tissue dispenser.
Displacing continuously a flexible band of solid material through a liquid treating chamber, Method of and apparatus for. M. Giros. 2,651,104, Sept. 8.
Display card. E. L. King. 2,651,421, Sept. 8.
Display device. C. Vásquez. 2,651,116, Sept. 8.
Display device, Rug. H. L., A., and D. Rubin. 2,651,127, Sept. 8.
Door: *See*—
Fuselage embracing hanger door. Motor operated sectional sliding door.
Door closing device, Adjustable. G. W. and R. E. Slopa. 2,651,074, Sept. 8.
Door operated switch. K. Bame. 2,651,689, Sept. 8.
Door structure, Vertically movable vehicle. D. C. Surles. 2,651,541, Sept. 8.
Draw bar actuating power amplifying apparatus. H. M. Olson. 2,651,207, Sept. 8.
Drier: *See*—
Clothes drier.
Drier drum. L. Hornbostel. 2,651,114, Sept. 8.
Drilling machine. F. H. Mueller and J. J. Smith. 2,651,222, Sept. 8.
Drilling wells. C. F. Teichmann. 2,651,500, Sept. 8.
Drive connection. H. L. Blydenburgh. 2,651,530, Sept 8.
Drop table. L. Richardson. 2,651,265, Sept. 8.
Dropper, Medicine. M. R. Fields. 2,651,437, Sept. 8.
Dry backfire arrester. J. M. Hendry. 2,651,322, Sept. 8.
Dual lever pry type lid lifter. A. E. Hopmann. 2,651,226, Sept. 8.
Duck call of the adjustable reed type, Variable tone. L. Bicocchi. 2,651,141, Sept. 8.
Dusting gun. C. F. Gregg. 2,651,139, Sept. 8.
Edge-lining machine. H. V. Schweitzer. 2,651,282, Sept 8.
Edge to edge fastening. F. A. Priestley. 2,651,091, Sept. 8.
Educational device. R. K. Davies. 2,651,115, Sept 8.
Electric snap switch. E. C. Raney. 2,651,690, Sept. 8.
Electrical apparatus. J. H. Mayforth. 2,651,729, Sept. 8.
Electrical capacitors, Manufacture of. R. A. Grouse. 2,651,100, Sept. 8.
Electrical connection. J. P. Lanfear. 2,651,671, Sept. 8.
Electrical fault finder. A. J. Dévot. 2,651,752, Sept. 8.
Electrical intercommunication system. J. J. B. Lair. 2,651,677, Sept. 8.
Electrical line clamp. K. R. Runde. 2,651,766, Sept. 8.
Electrical meter. E. G. Perry, Jr. and R. W. Olson. 2,651,754, Sept. 8.
Electrical overload protector. P. C. Talmadge, J. D. Zartman, and R. E. Prouty. 2,651,748, Sept. 8.
Electroconductive articles, Production of. W. O. Lytle and A. E. Junge. 2,651,585, Sept. 8.
Electrodeposition of aluminum from nonaqueous solutions. A. Brenner and D. E. Couch. 2,651,608, Sept. 8.
Electromagnetic vibrating contact device and control. A. Winther. 2,651,732, Sept. 8.
Electroplating copper. A. E. Chester. 2,651,609, Sept. 8.
Electroplating zinc. A. E. Chester. 2,651,610, Sept. 8.
Electrostatic condensers, Manufacturing. D. R. Clemons. 2,651,101, Sept. 8.
Electrotyper's case. G. W. Bungay. 2,651,614, Sept. 8.
Electrowinning of chromium. M. C. Carosella and J. D. Mettler. 2,651,611, Sept. 8.
Emergency grapple. L. F. Poisal. 2,651,539, Sept. 8.
Emergency traction device. C. J. Gardetto. 2,651,347, Sept. 8.
End brace for Venetian blind head bars. H. K. Lorentsen. 2,651,358, Sept. 8.
Engine: *See*—
Rotary engine.
Rotary piston internal-combustion engine.
Engine starter, Gas turbine. E. A. Volk, Jr. 2,651,493, Sept. 8.
Enzymatic process for producing gluconic acid. D. L. Baker. 2,651,592, Sept. 8.
Escutcheon for doors. E. Ewald. 2,651,537, Sept. 8.
Ethylene imine-acrylyl triazine reaction products. E. Zerner and M. W. Pollock. 2,651,631, Sept. 8.
Extensible rack. A. V. Elder. 2,651,558, Sept. 8.
Extensometer for testing metal objects. R. H. Pinkel. 2,651,196, Sept. 8.
Fastener: *See*—
Snap fastener.
Fastener blank strip, Connected. J. C. Lang. 2,651,231, Sept. 8.
Fastener strip. J. C. Lang. 2,651,232, Sept. 8.
Feed material for the conversion of hydrocarbons, Preparation of. W. O. Taff and J. Welkart. 2,651,601, Sept. 8.
Feed mechanism for potato chip machines. B. Stahmer. 2,651,435, Sept. 8.
Feeder: *See*—
Stock feeder.
Ferric dithiocarbamates, Manufacture of. C. J. McKone. 2,651,650, Sept. 8.
Field-sensitive hydraulic apparatus. F. Pierce. 2,651,258, Sept. 8.
File, Page card. H. H. and M. J. Feldstein. 2,651,126, Sept. 8.
Filler for cartons. J. L. Dusseault. 2,651,448, Sept. 8.
Filter: *See*—
Channel separation light filter. Outward flow filter.
Filter unit, Fuel oil. J. J. Prendergast. 2,651,418, Sept. 8.
Fishhook releaser. G. B. Lennen. 2,651,132, Sept. 8.
Fishhook, Weedless. M. F. Kemmerer. 2,651,134, Sept. 8.
Fish lure. G. J. Sharpe. 2,651,133, Sept. 8.
Fishing sinker, Adjustable weight. J. W. Greenleaf. 2,651,135, Sept. 8.
Fitting for flush tanks. H. E. Salzman. 2,651,050, Sept 8.
Flare composition. H. C. Clauser and R. S. Long. 2,651,567, Sept. 8.
Flat bearing means. A. Pitner. 2,651,552, Sept. 8.
Floating telescopic piling template. I. W. Alcorn and D. F. Dial, Jr. 2,651,181, Sept. 8.
Flotation machine, Dual aerating. A. C. Daman. 2,651,413, Sept. 8.
Flowmeter, Borehole. J. M. Pearson. 2,651,370, Sept. 8.
Fluid heater. R. J. Horne. 2,651,294, Sept 8.
Fluid pump. P. M. W. Bruckmann. 2,651,264, Sept. 8.
Fluid sealing device for electrical conductors. V. Ivanoff. 2,651,672, Sept. 8.
Fluorine cell. R. D. Fowler and W. B. Burford, III. 2,651,613, Sept. 8.
Flushing unit. H. B. Cates. 2,651,318, Sept. 8.
Foam producing attachment. G. H. Palm. 2,651,546, Sept. 8.
Foldable sign carrier. G. H. Loock and R. E. Wollmer. 2,651,487, Sept. 8.
Foot pump. T. H. Bjurström. 2,651,454, Sept. 8.
Forming cured glycidyl ether resinous bonds between two solid surfaces. E. C. Shokal, H. A. Newey, and T. F. Bradley. 2,651,589, Sept. 8.
Fountain or bath, Automatic bird. W. E. McBride. 2,651,321, Sept. 8.
4-amino and 4-chloro phenyl-2-thienyl ketones. F. Marschall. 2,651,640, Sept. 8.
Fractionation with solid adsorbents. H. Z. Martin and W. K. Lewis, Jr. 2,651,603, Sept. 8.
Frame: *See*—
Automobile floor mat Storm window sash frame.
frame.
Frame for colored photographs, Picture. M. Spertus. 2,651,129, Sept. 8.
Freezemeter. J. W. Dickey and E. E. Hood. 2,651,194, Sept. 8.
Frequency discriminatory system. G. L. Fredendall. 2,651,673, Sept. 8.
Frequency generator. O. S. Field. 2,651,734, Sept. 8.
Fruit-containing frozen confections and producing the same. W. F. Talburt and D. G. Guadagni. 2,651,575, Sept. 8.
Fumigant composition and process. K. S. Karsten. 2,651,590, Sept. 8.
Fuselage embracing hangar door. A. D. Margison. 2,651,359, Sept. 8.

Galvanometer, Oscillograph. M. E. Morrow. 2,651,756, Sept. 8.
Game piece with punch. G. F. Wales. 2,651,521, Sept. 8.
Game with ball-operated gates. P. J. Ragusin. 2,651,520, Sept. 8.
Garment, Foundation. B. Lewis. 2,651,037, Sept. 8.
Garment structure with crotch. J. R. Milberg. 2,651,048, Sept. 8.
Gas and liquid contact apparatus. J. P. Voleau. 2,651,512, Sept. 8.
Gas lift valve. L. L. Cummings. 2,651,319, Sept. 8.
Gas pressure regulator. F. J. Eichelman. 2,651,147, Sept. 8.
Gas tube counter, Dual-polarity. R. B. Koehler. 2,651,741, Sept. 8.
Gate: *See*—
Mine car topping gate.
Gate control, Chopper box. A. J. Meyer. 2,651,542, Sept. 8.
Gate valve. W. T. Hirsch and E. R. Roth. 2,651,320, Sept. 8.
Gauge: *See*—
Tank gauge.
Gauge. M. Ducloz. 2,651,112, Sept. 8.
Gauge head. H. A. Snow. 2,651,762, Sept. 8.
Gauging device, Size. W. F. Alier. 2,651,412, Sept. 8.
Geared hand brake. J. Wilson. 2,651,213, Sept. 8.
Gearless differential. R. R. Randall. 2,651,214, Sept. 8.
Generator: *See*—
Frequency generator.
Glass-to-metal seal. R. T. Foley and H. A. Omley. 2,651,144, Sept. 8.
Governing mechanism with variable force. M. Frenkel. 2,651,516, Sept. 8.
Governor for gas turbine engine fuel systems, Hydraulic. K. R. Davies and K. Herbstritt. 2,651,517, Sept. 8.
Governor for internal-combustion engines, Speed responsive. R. D. Fageol. 2,651,316, Sept. 8.
Grain treatment means. H. A. Westberg. 2,651,285, Sept. 8.
Grandstand, Portable. S. S. Storer, Jr. 2,651,081, Sept. 8.
Graph plotting machine. D. W. Young and J. B. Trenholm, Jr. 2,651,400, Sept. 8.
Gravel packing apparatus and arranging same in well casings. G. F. Abendroth, G. H. Tausch, and J. Ward, III. 2,651,369, Sept. 8.
Gravity feed adapter for sheet metal containers. E. C. Hobbs. 2,651,440, Sept. 8.
Grinding device, Roll. C. F. Schnuck. 2,651,152, Sept. 8.
Grinding mill with abrasive liner and angularly disposed feed conduit, Centrifugal. H. A. Noll. 2,651,471, Sept. 8.
Ground potential compensator. C. L. Loudon. 2,651,773, Sept. 8.
Growing crystals, Methods and apparatus for. A. J. Warner and S. G. Foord. 2,651,566, Sept. 8.
Hair curling device. F. Kemp. 2,651,309, Sept. 8.
Halogenated thiophene pesticide. R. E. Plump. 2,651,579, Sept. 8.
Hand locking battery cable clamps. M. O. Nelson. 2,651,765, Sept. 8.
Handle: *See*—
Separable machine or equipment handle.
Handle construction, Knife. A. Breitzke. 2,651,106, Sept. 8.
Handpiece, Shearing. E. S. Bartlett. 2,651,107, Sept. 8.
Harrow, Power-driven. A. Peters, P. Forbach, and B. J. Strotman. 2,651,246, Sept. 8.
Harvester, Cotton. G. P. Lucius. 2,651,160, Sept. 8.
Harvester, Forage. P. A. Whisler. 2,651,162, Sept. 8.
Harvester, Tractor-mounted corn. M. A. Richardson. 2,651,158, Sept. 8.
Harvesting device, Power-operated beet. J. W. Orendorff. 2,651,155, Sept. 8.
Harvesting unit with auxiliary snapping rolls, Corn. J. L. Aasland. 2,651,163, Sept. 8.
Hasp type case latch. E. Doquier. 2,651,536, Sept. 8.
Hat pinch form. S. Shenkman. 2,651,045, Sept. 8.
Hat, Scarf. E. R. Stanklewicz and M. K. Taylor. 2,651,044, Sept. 8.
Head conforming mounting for adjustably positionable hair pieces. E. V. Selson. 2,651,310, Sept. 8.
Headlamp for physicians and surgeons. W. G. Allyn, F. M. Scott, and E. H. Greppin. 2,651,301, Sept. 8.
Heat exchange apparatus for liquids containing solids. W. M. Bready. 2,651,508, Sept. 8.
Heat exchange insert for engine manifolds. H. J. Heinecke. 2,651,507, Sept. 8.
Heater: *See*—
Automobile heater. Fluid heater.
Heater assembly for electric driers. G. S. Clemens. 2,651,705, Sept. 8.
Heater with backdraft diverter, Gas burning. J. W. Brown, Jr. 2,651,299, Sept. 8.
Heating apparatus for rooms, Baseboard. B. P. Gundrum and E. D. McElhaney. 2,651,504, Sept. 8.
Heating system for bakers' ovens and other heating chambers. J. F. Naylor. 2,651,271, Sept. 8.
Helicopter, Multiple rotor. C. G. Pullin. 2,651,480, Sept. 8.
Hinge, Sofa-bed. E. G. Krakauer. 2,651,054, Sept. 8.
Hoist, Trailer. C. Straub. 2,651,498, Sept. 8.
Holder: *See*—
Baby feeding bottle holder. Cotton roll holder. Microtome specimen holder. Blade and tool holder.
Holder for flowers and other articles. P. F. K. Erbguth. 2,651,422, Sept. 8.
Holder for gummed paper. A. W. Wray and M. S. Baldwin. 2,651,420, Sept. 8.
Holder for looms, Movable thread. R. G. Turner. 2,651,331, Sept. 8.
Holder for looms, Thread. R. G. Turner. 2,651,332, Sept. 8.
Horn gate mechanism. L. W. Williamson and H. Runsberg. 2,651,088, Sept. 8.
Hose clamp. D. B. Kates. 2,651,095, Sept. 8.
Humidifier boiler. E. W. Bottum. 2,651,293, Sept. 8.
Hydraulic apparatus, Dual pressure. A. R. Blood. 2,651,179, Sept. 8.
Hydraulic speed-sensitive control system for prime movers. D. O. Davies. 2,651,261, Sept. 8.
Hydrocarbon separator apparatus and separator element. A. Lawson. 2,651,414, Sept. 8.
Hydrocarbon synthesis, Two-stage. C. E. Hemminger. 2,651,653, Sept. 8.
Ice-cream freezer and method of making ice cream, Continuous. W. L. Murphy. 2,651,186, Sept. 8.
Ignition apparatus and making same. H. A. Brinson and T. G. Brady. 2,651,298, Sept. 8.
Ignitron. D. E. Marshall. 2,651,737, Sept. 8.
Implement attaching device for tractors. V. P. M. Ballu. 2,651,248, Sept. 8.
Improving the octane number of light naphthas. E. S. Corner and F. B. Fischl. 2,651,597, Sept. 8.
Incremental sanding apparatus for trimming book blocks. P. de Flores and F. J. Cashin. 2,651,150, Sept. 8.
Indicator: *See*—
Temperature indicator. Weight on bit indicator.
Indicator with automatic cancellation, Turn. C. A. Best and L. E. Johnson. 2,651,688, Sept. 8.
Inhaler. R. S. Johnson and G. A. Palmquist. 2,651,303, Sept. 8.
Injector and stabilizer for gas turbine afterburners, Combination. F. D. M. Williams. 2,651,178, Sept. 8.
Instantly reversible motor. W. W. Warner. 2,651,747, Sept. 8.
Ionization chamber circuit. D. K. Froman, W. H. Hinch, and R. J. Watts. 2,651,726, Sept. 8.
Item, total, and repeated registration control mechanism. R. Gourdon. 2,651,462, Sept. 8.
Jacket for toilet flush tanks, Insulating. C. A. Madson. 2,651,052, Sept. 8.
Jet propeller for aircraft propulsion, Explosion-cycle. J. D. Stanitz. 2,651,376, Sept. 8.
Joint bar device. A. L. Guille. 2,651,243, Sept. 8.
Kerosene finishing process. L. J. Blatz. 2,651,594, Sept. 8.
Keyboard mechanism of the power-operated type. R. H. Turner. 2,651,406, Sept. 8.
Key selector mechanism in printing machines. A. J. Johnston. 2,651,253, Sept. 8.
Knockdown cabinet-type display table. J. B. Kelly, Jr. 2,651,557, Sept. 8.
Label applying mechanism. G. W. von Hofe. 2,651,429, Sept. 8.
Lamp: *See*—
Photoflash lamp.
Lamp having anchoring means to position the lamp and hold the switch closed, Battery operated. H. G. Clark. 2,651,710, Sept. 8.
Lasting machine. R. L. Hill and R. W. Ireland. 2,651,063, Sept. 8.
Latch: *See*—
Hasp type case latch.
Latch spindle lock. N. A. Welch. 2,651,193, Sept. 8.
Latching and closing means for railway car hopper doors. G. B. Dorey. 2,651,266, Sept. 8.
Latching means for hopper car doors. G. B. Dorey. 2,651,267, Sept. 8.
Latex compositions, Stabilized toughened. A. M. Hall and R. Woolman. 2,651,618, Sept. 8.
Lawn mower, Rotary cutting disk type. J. G. Rountree, Sr. 2,651,159, Sept. 8.
Leader and fishhook, Unitary sinker. A. A. Kruse. 2,651,136, Sept. 8.
Lens system, Balanced focus. S. E. Garutso. 2,651,237, Sept. 8.
Lidder for boxes varying in length, Automatic. G. E. Stillwell. 2,651,036, Sept. 8.
Lifter: *See*—
Dual lever pry type lid lifter. Root crop lifter.
Lifting and lowering apparatus, Mobile. R. A. Butler. 2,651,427, Sept. 8.
Lighting control system. R. G. Williams. 2,651,743, Sept. 8.
Lightproof seam and making the same. H. F. Burkhard. 2,651,049, Sept. 8.
Line boring machine, Manually centered. E. A. Foster. 2,651,221, Sept. 8.
Liquid applying device for cables, wires, and the like. C. J. Reigh. 2,651,288, Sept. 8.
Liquid diverting apparatus. W. E. Parks and H. W. West. 2,651,051, Sept. 8.

Liquid filled expansible chamber. T. E. Larkin. 2,651,327, Sept. 8.
Liquid-liquid extraction process. H. A. Goldsmith. 2,651,646, Sept. 8.
Liquid metering dispenser. A. M. Stevenson. 2,651,439, Sept. 8.
Liquid pump. E. A. Simonis and F. R. Heath. 2,651,553, Sept. 8.
Liquid seal trap. K. M. Adair. 2,651,434, Sept. 8.
Lithium hydroxy stearate grease compositions. J. B. Matthews, D. Evans, J. F. Hutton, and J. O. Cliffe. 2,651,616, Sept. 8.
Lock: *See*—
Latch spindle lock. Toilet seat cover lock.
Lock for pumps, Pull rod. E. T. Ingram. 2,651,551, Sept. 8.
Lock nuts, making. O. R. Misch. 2,651,060, Sept. 8.
Lock stitch sewing machine under bed mechanism. R. K. Hohmann and J. T. Dravinski. 2,651,274, Sept. 8.
Locker construction. J. B. O'Connor. 2,651,559, Sept. 8.
Locking and resetting means for gyroscopes. S. P. Clurman. 2,651,205, Sept. 8.
Locking means, Resilient. T. R. Smith. 2,651,531, Sept. 8.
Log sawmill for small dimension timber. I. Stagg. 2,651,335, Sept. 8.
Lundel rotor construction. J. H. Stark. 2,651,733, Sept. 8.
Machine for applying coatings. K. E. James. 2,651,404, Sept. 8.
Machine for coating with thermoplastic materials. E. J. Justus. 2,651,077, Sept. 8.
Machine for irradiating liquids. V. C. Hall. 2,651,724, Sept. 8.
Machine for shaving electrotypes, stereotypes, and the like. D. E. Sutton. 2,651,240, Sept. 8.
Magnet, Lifting. B. Stahmer. 2,651,538, Sept. 8.
Magnetic bearing suspension for electric measuring instruments. F. A. Sharp. 2,651,550, Sept. 8.
Magnifying instrument for precision measuring devices. S. S. Barrows. 2,651,235, Sept. 8.
Malleabilized white cast iron, Manufacture of. R. W. Heine. 2,651,370, Sept. 8.
Manufacturing process of cadmium sulfide, selenide, telluride photoconducting cells. F. F. Gans. 2,651,700, Sept. 8.
Mass spectrometer beam regulator. W. R. Baker. 2,651,723, Sept. 8.
Measuring instrument for determining the humidity of gaseous mixtures. G. de Mestral. 2,651,201, Sept. 8
Measuring instrument with range and multiplying factor indicator, Electrical. R. L. Triplett. 2,651,755, Sept. 8.
Mechanism for operating counters for draw benches. J. B. Higgs. 2,651,465, Sept. 8.
Mercapto azine derivatives. P. M. Downey. 2,651,630, Sept. 8.
Meter: *See*—
Electrical meter. Trip timing meter.
Method of making a cuprammonium cellulose solution. E. J. Courtney. 2,651,582, Sept. 8.
Microtome specimen holder. H. Kahler. 2,651,236, Sept. 8.
Milling attachment for lathes. C. Schlagel. 2,651,239, Sept. 8.
Milling wheat. R. B. Dodds and A. N. Hibbs. 2,651,470, Sept. 8.
Mine car topping gate. A. Casciano. 2,651,268, Sept. 8.
Mineral coated paper and coating composition therefor. A. Reilly. 2,651,580, Sept. 8.
Mining and handling coal. E. Ramsay. 2,651,513, Sept. 8.
Mitt for detachable cleaning pads. D. F. Dyer and H. A. Coe. 2,651,071, Sept. 8.
Mixing device. O. H. Lind. 2,651,510, Sept. 8.
Modulation circuit. H. B. Foster and J. R. Parker. 2,651,758, Sept. 8.
Mold: *See*—
Portable mold.
Mold for retreading pneumatic tire casings. R. P. Hawkinson. 2,651,078, Sept. 8.
Mold making machine. H. E. Fellows. 2,651,087, Sept. 8.
Molding ornamental objects. J. Michaelson and S. R. Fingiass. 2,651,079, Sept. 8.
Molding soles and heels to uppers. A. A. Root. 2,651,118, Sept. 8.
Mop, Wringer. L. B. Hoffman. 2,651,069, Sept. 8.
Motion converting mechanism. H. J. La Velle. 2,651,206, Sept. 8.
Motor: *See*—
Instantly reversible motor.
Motor control, Outboard. T. and T. Davison. 2,651,278, Sept. 8.
Motor for molding presses, Compound hydraulic. J. Haller. 2,651,180, Sept. 8.
Motor operated sectional sliding door. J. P. Reinhardt. 2,651,360, Sept. 8.
Mount for motorcycle headlights and the like, Rotatably adjustable. A. P. Sauer. 2,651,488, Sept. 8.
Mounting: *See*—
Switch mounting.
Mouth opener, Animal. F. C. Fehrman. 2,651,300, Sept. 8.
Muff, Ear. E. Berg. 2,651,046, Sept. 8.
Muffler with conical perforated baffles, Exhaust. R. W. Cooper. 2,651,381, Sept. 8.
Multiple control valve. R. F. Hodgson and W. C. Dolch. 2,651,324, Sept. 8.
Multivibrator, Electronic. C. A. Bergfors. 2,651,722, Sept. 8.
Nitroaromatic-benzalthiosemicarbazones. H. Schmidt and R. Behnisch. 2,651,660, Sept. 8.
Nontorque-equalizing differential transmission. O. R. Schoenrock. 2,651,215, Sept. 8.
Nozzle construction. C. C. Vanderwall. 2,651,372, Sept. 8.
Nozzle, Dispensing. F. T. Moser. 2,651,270, Sept. 8.
Nozzle, Filling. E. Kennedy, Jr. 2,651,445, Sept. 8.
Nozzle for high-temperature turbines, Variable area. B. O. Buckland and G. B. Warren. 2,651,496, Sept. 8.
Nozzle head. R. S. Calhoun. 2,651,547, Sept. 8.
Observing apparatus, particularly for observing objects moving in space. A. Gerber. 2,651,560, Sept. 8.
Oil separator. E. P. Worthen and C. S. L. Robinson. 2,651,415, Sept. 8.
1-benzyl-5,6,7,8-tetrahydroisoquinoline, Preparation of. H. Henecka. 2,651,634, Sept. 8.
1-benzyl-1 :2 :3 :4 :5 :6 :7 :8-octahydro-isoquinoline, Preparation of. H. Henecka. 2,651,635, Sept. 8.
1 - benzyl - 2,3,5,6,7,8 - hexahydroisoquinolone - 3 and the preparation thereof. H. Henecka. 2,651,637, Sept. 8.
1,8 - dinydroxy - 5 - nitro - 4 - methylolaniline anthraquinone compounds and their preparation. J. M. Straley and J. B. Dickey. 2,651,641, Sept. 8.
1 - p - nitrophenyl - 2 - dichloroacetamidopropane - 1,3-diol, Preparation of. H. R. Gamrath and W. S. Knowles. 2,651,661, Sept. 8.
Onion trimming machine. A. L. Dufour. 2,651,344, Sept. 8.
Opacifying the surface of glass articles. S. D. Stookey. 2,651,146, Sept. 8.
Operating engines at high altitudes, Process and apparatus for. H. L. Thwaites and B. B. Russell. 3d 2,651,173, Sept. 8.
Optical operation control device. P. H. Allen and B. J. Chromy. 2,651,463, Sept. 8.
Ortho-phenanthroline, Preparation of. G. K. Wheeler. 2,651,636, Sept. 8.
Oscillator, Wide range inductively-tuned. J. J. Ehers. 2,651,738, Sept. 8.
Outside pipe cutting tool. L. W. Storm. 2,651,362, Sept. 8.
Outward flow filter. S. Malanowski. 2,651,417, Sept. 8.
Overcoat. L. Sunderland, E. Fiorine, and I. I. Berger. 2,651,041, Sept. 8.
Overspeed control means for rotary motion. D. R. Trowbridge and L. Glover. 2,651,388, Sept. 8.
Package and making it. S. M. Bodolay and D. S. Vecchia. 2,651,578, Sept. 8.
Packaging machine. F. B. Casey, R. R. Woodcock, and M. E. Wood. 2,651,350, Sept. 8.
Paint spray attachment device. J. C. Shotton. 2,651,545, Sept. 8.
Pallet. S. W. Woodward. 2,651,486, Sept. 8.
Parachute. A. J. Steinthal. 2,651,481, Sept. 8.
Patty receiving device. L. X. Garfunkel. 2,651,430, Sept. 8.
Permanent magnets, Manufacture of. L. Néel. 2,651,105. Sept. 8.
Photoflash lamp. N. C. Beese. 2,651,189, Sept. 8.
Photographic objective, Deep focus. S. E. Garutso. 2,651,238, Sept. 8.
Photoprint ejector. D. Ferguson. 2,651,244, Sept. 8.
Photosensitively opacifiable glass. S. D. Stookey. 2,651,145, Sept. 8.
Picture projection screen apparatus, Outdoor. P. J. Corso and P. A. Romano. 2,651,234, Sept. 8.
Pin: *See*—
Adjustable dowel pin.
Pirn winder or the like. H. L. Muschamp and J. R. Grady. 2,651,472, Sept. 8.
Plant setting machine. M. D. Justiss and T. U. Fallin. 2,651,280 Sept. 8.
Pliers, Multiple-jaw hand. G. L. Kennington, Jr. 2,651,227, Sept. 8.
Plow-conveyer-thrower combination type ditching machine. H. G. Murphy. 2,651,123, Sept. 8.
Plow draft device. R. E. Hartsock and R. W. Henes. 2,651,247, Sept. 8.
Plug and valve device for casing apparatus. R. C. Baker and B. L. Austin. 2,651,368, Sept. 8.
Plug device for well conduits. R. C. Baker. 2,651,367, Sept. 8.
Plumbing trap cleaner. D. Dileo. 2,651,382, Sept. 8.
Plural worm drive. M. L. van Overeem. 2,651,217, Sept. 8.
Pneumatic control apparatus, self-cycling. F. D. Joesting. 2,651,468, Sept. 8.
Pole-shoe tool. J. T. Becker. 2,651,338, Sept. 8.
Polymerising phenyltrifluoroethylene. M. Prober. 2,651,627, Sept. 8.

Poly-pentaerythritols, Production of. S. F. Marrian and A. McLean. 2,651,663, Sept. 8.
Portable mold. I. Stees. 2,651,096, Sept. 8.
Position adjusting device for furniture or the like. P. Billet and I. Levy. 2,651,055, Sept. 8.
Positioning apparatus for dredge pipes. R. A. Brinkman. 2,651,122, Sept. 8.
Pothead with stress distributing means, High-voltage. P. N. Bosworth. 2,651,670, Sept. 8.
Power plant, Coal fired gas turbine. J. I. Yellott. 2,651,176, Sept. 8.
Power transmission mechanism for window regulators. A. Mackman. 2,651,212, Sept. 8.
Preparing moistureproof wrappings for perishable articles. C. Nicolle. 2,651,154, Sept. 8.
Preservation of forage crops with phenol derivatives. E. M. Bickoff. 2,651,572, Sept. 8.
Press: *See*—
Reciprocating die press. Shoe press.
Press for removing the surplus mercury from an amalgam. H. R. Dike. 2,651,110, Sept. 8.
Pressing machine. H. E. Cole and W. Olsen. 2,651,125, Sept. 8.
Pressure modulating relay. W. B. Heins. 2,651,317, Sept. 8.
Pressure regulator. P. Angles d'Auriac. 2,651,323, Sept. 8.
Pressure responsive and indicating device. G. W. Laurie. 2,651,279, Sept. 8.
Preventing the precipitation of insoluble salts of phenoxy-acetic acids. E. Leblon. 2,651,568, Sept. 8.
Printing apparatus, Stencil. J. B. Thomas and C. E. Moorhouse. 2,651,257, Sept. 8.
Printing control means for record controlled machines. A. B. Crowell. 2,651,257, Sept. 8.
Producing a caramel color of high tinctorial power in the form of solid particles or a dry powder. J. E. Cleland, H. W. Curry, and A. L. Meyer. 2,651,577, Sept. 8.
Propulsion apparatus actuated by successive charges of detonating materials. R. H. Goddard. 2,651,171, Sept. 8.
Protective guide device for well instruments. C. P. Collins and C. A. Brokaw. 2,651,199, Sept. 8.
Protector: *See*—
Electrical overload protector.
Puller: *See*—
Rail puller.
Pulley for variable speed transmissions. E. Karig. 2,651,208, Sept. 8.
Pulley package. W. P. Koch. 2,651,410, Sept. 8.
Pulse code modulation demodulator. H. Feissel. 2,651,716, Sept. 8.
Pulse keying system. E. M. Buyer. 2,651,753, Sept. 8.
Pump: *See*—
Fluid pump. Liquid pump.
Foot pump.
Pump for jet propulsive apparatus, Jet. C. C. Whims. 2,651,452, Sept. 8.
Pure barium and strontium hydroxides, Preparing. M. J. Rentschler. 2,651,563, Sept. 8.
Purification of desoxycholic acid. R. H. Sifferd and J. J. Svara. 2,651,643, Sept. 8.
Puzzle and carrier device. I. H. Steinhardt. 2,651,522, Sept. 8.
Quinazolone compounds and making the same. B. R. Baker and M. V. Querry. 2,651,633, Sept. 8.
Rack: *See*—
Extensible rack.
Radiator. E. Lehmann. 2,651,506, Sept. 8.
Radio direction finder. C. W. Earp. 2,651,774, Sept. 8.
Rail-fastening clip. M. L. Myer. 2,651,469, Sept. 8.
Rail puller. L. O. Hyvari. 2,651,497, Sept. 8.
Rapidly processing photographic film, Means for. A. W. Tondreau. 2,651,245, Sept. 8.
Ratchet or brake, Hydraulic. W. T. Rossell. 2,651,386, Sept. 8.
Reaction product of a xanthate, and inorganic sulfide and a copper salt. S. B. Tuwiner. 2,651,649, Sept. 8.
Reciprocating die press. F. E. Stratton and H. V. Hall. 2,651,365, Sept. 8.
Record changer head. W. Miller and J. L. D. Morrison. 2,651,524, Sept. 8.
Record sensing and data storage device. H. P. Luhn. 2,651,461, Sept. 8.
Recording instrument, Production: N. E. Benham. 2,651,561, Sept. 8.
Recovery of acetic acid from aqueous acetic acid solutions by extractive distillation. G. A. R. Hartley. 2,651,604. Sept. 8.
Recovery of acetic acid from aqueous acetic acid solutions by extractive distillation. G. A. R. Hartley and C. O. Haughton. 2,651,605, Sept. 8.
Recovery of pure paraxylene. J. D. Booker. 2,651,665, Sept. 8.
Rectifier assembly, Dry. S. H. Marrow. 2,651,745, Sept. 8.
Rectifier, Mechanical. F. Koppelmann and H. Böhm. 2,651,750, Sept. 8.
Reducing contaminants on finely divided catalyst. W. O. Taft and R. L. Hardy. 2,651,600, Sept. 8.
Refining of distillates with sulfuric acid and SO_2Cl_2. J. H. Krause. 2,651,596, Sept. 8.
Reforming process and catalyst. F. G. Clapetta. 2,651,598, Sept. 8.
Refrigerating apparatus having means for preventing condensation of moisture on the door. C. D. Harris and J. R. Prosek. 2,651,187, Sept. 8.
Refrigeration unit for vehicles using ice for condensing volatile refrigerants, Compact. E. T. Brizzolara. 2,651,183, Sept. 8.
Register sender, Dual-use. F. H. Bray, M. T. Wilson, D. H. Ormrod, and S. G. W. Johnstone. 2,651,680, Sept. 8.
Registering device, Score. H. E. Williams. 2,651,464, Sept. 8.
Regulator: *See*—
Gas pressure regulator. Pressure regulator.
Mass spectrometer beam regulator.
Removing pellicle from filbert nut kernels, Method and apparatus for. E. H. Schoolcraft. 2,651,345, Sept. 8.
Repair clamp structure and method. J. G. Fowler, Jr. 2,651,329, Sept. 8.
Resolution of mixtures comprising N-methylaniline and N,N-dimethylaniline. T. J. Deahl, F. H. Stross, and M. D. Taylor. 2,651,606, Sept. 8.
Retardation line subdivided into sections. M. A. Lalande. 2,651,760, Sept. 8.
Rider propelled toy vehicle. R. E. Thoren. 2,651,527, Sept. 8.
Rip fence for saw tables and mountings therefor. A. Pollock. 2,651,337, Sept. 8.
Roll of adhesive tape. D. W. Engberg and W. A. Norton. 2,651,408, Sept. 8.
Roll stand for flying splices. J. P. Van Dusen. 2,651,474, Sept. 8.
Rolling titanium sheets. J. A. Roemer, B. H. McKibben, and J. R. Corry. 2,651,099, Sept. 8.
Root crop lifter. C. B. Richey. 2,651,156, Sept. 8.
Rotary engine. A. Le Pechoux. 2,651,295, Sept. 8.
Rotary filing apparatus. B. Discount. 2,651,305, Sept. 8.
Rotary piston internal-combustion engine. J. E. Pridham. 2,651,177, Sept. 8.
Rubber stabilized with a thiourea derivative. E. F. Hill and D. O. De Pree. 2,651,667, Sept. 8.
Sash balance for double hung windows. E. M. Padjen. 2,651,535, Sept. 8.
Saw, Bow. J. E. Hammarström. 2,651,341, Sept. 8.
Saw, Chain. H. E. Warren. 2,651,336, Sept. 8.
Saw sharpener. R. S. Tower. 2,651,219, Sept. 8.
Scale, Tare weight. H. A. Price and E. H. Vickery. 2,651,518, Sept. 8.
Screen: *See*—
Vibrating screen. X-ray fluorescent screen.
Seal for centrifugal separators. G. J. Streszynski. 2,651,455, Sept. 8.
Sealed container. R. C. Ellsworth. 2,651,450, Sept. 8.
Sealed shipping container. R. S. McConnell. 2,651,432, Sept. 8.
Sealing devices. T. O. Kosatka. 2,651,534, Sept. 8.
Sealing machine, Bag. F. B. Casey, R. R. Woodcock, and M. E. Wood. 2,651,444, Sept. 8.
Seam binding attachment for sewing machines. J. Trapani. 2,651,273, Sept. 8.
Seat: *See*—
Child's portable folding high seat.
Seed gatherer. F. K. Fleming. 2,651,164, Sept. 8.
Selective point detector mechanism. W. M. Poole. 2,651,714, Sept. 8.
Semiconductor trigger circuit. M. L. Wood. 2,651,728, Sept. 8.
Separable machine or equipment handle. C. V. O'Maley. 2,651,075, Sept. 8.
Separation of nickel contained in nickeliferous cobalt alloys. M. De Merre. 2,651,562, Sept. 8.
Separator: *See*—
Oil separator.
Setting of saw teeth, Means for the. N. Rosenlund. 2,651,220, Sept. 8.
Sheet metal bending brake. R. E. Smith, Sr. 2,651,349, Sept. 8.
Sheller, Nut. C. L. Harless. 2,651,342, Sept. 8.
Shirt, Convertible. G. Lombardi. 2,651,042, Sept. 8.
Shock absorber assembly for portable electric flashlights. L. C. Grimsley. 2,651,763, Sept. 8.
Shoe for dolls, Molded plastic. J. A. Harris. 2,651,117, Sept. 8.
Shoe lasts, Manufacturing. S. Sjöström. 2,651,339, Sept. 8.
Shoe press. H. E. Polleys. 2,651,061, Sept. 8.
Shrinking machine. O. M. Toennies. 2,651,313, Sept. 8.
Shuttle valve. B. N. Ashton, J. P. Frain, and E. S. Rawding. 2,651,491, Sept. 8.
Signal attenuator, Automatic. T. F. S. Hargreaves and W. F. Gould. 2,651,684, Sept. 8.
Signaling system, Electric. G. C. Hartley. 2,651,679, Sept. 8.
Silicon halides containing fluorocarbon radicals. J. H. Simons and R. D. Dunlap. 2,651,651, Sept. 8.
Silo unloader. W. R. Peterson. 2,651,438, Sept. 8.
Skewer. J. C. Brown. 2,651,251, Sept. 8.
Slug rejector for coin selecting devices. W. Patzer. 2,651,399, Sept. 8.
Snap fastener. J. F. Lynch. 2,651,093, Sept. 8.
Socket reducing means for box-type wrenches. W. Waterval. 2,651,230, Sept. 8.

Socket wrench and nut ejector, Combined. B. J. Lenz. 2,651,229, Sept. 8.
Speed indicating and recording device. R. W. Hewes and S. M. Phelps. 2,651,772, Sept. 8.
Spinning machine. A. B. Cavallaro. 2,651,165, Sept. 8.
Spool-and-chain log stop and kicker. W. T. Stockett, Jr. 2,651,334, Sept. 8.
Spool, Fishing reel. H. L. Mandolf. 2,651,477, Sept. 8.
Spool, Plastic shrouded. L. H. Morin. 2,651,476, Sept. 8.
Spot welder, Portable. A. O. Backen. 2,651,701, Sept. 8.
Spraying appliance. S. Cuadras. 2,651,544, Sept. 8.
Stabilization of soils. V. F. B. de Mello, E. A. Hauser, and T. W. Lambe. 2,651,619, Sept. 8.
Stabilized apparatus for drilling curved bores deviating from existing vertical well bores. J. A. Zublin. 2,651,499, Sept. 8.
Stabilized organic compositions. E. F. Hill and D. O. De Pree. 2,651,620–3, Sept. 8.
Stapler, Desk. W. J. and R. B. Vail, L. R. Demerath, L. J. Dugin, and C. E. Nyberg. 2,651,034, Sept. 8.
Steering by driving interlocked with manual steering. R. Lapsley and G. L. Turner. 2,651,377, Sept. 8.
Steering device for farm wagons. A. J. Eubanks. 2,651,526, Sept. 8.
Stencil pad unit, Hand use. F. R. Wallich. 2,651,255, Sept. 8.
Stethoscope with means for regulating the tone and pitch. J. Brandenburg. 2,651,380, Sept. 8.
Stock feeder. O. D. Duke. 2,651,291, Sept. 8.
Storm window sash frame. R. Goldberg. 2,651,084, Sept. 8.
Suction cleaner. E. H. Yonkers, Jr. 2,651,383, Sept. 8.
Supplying railway cab signaling energy through short railway track circuits, Means for. F. B. Florencourt. 2,651,713, Sept. 8.
Support: *See*—
Winding core support.
Surface active agents. J. M. Cross. 2,651,645, Sept. 8.
Surgical splint. C. T. Berry. 2,651,302, Sept. 8.
Suspension link for centrifugal extractor casings. F. O'Conor. 2,651,482, Sept. 8.
Switch: *See*—
Door operated switch. Thermal overload switch.
Electric snap switch.
Switch construction, Electric fuse. S. I. Lindell. 2,651,694, Sept. 8.
Switch device, Alarm. F. H. Townsend and H. S. Hall. 2,651,687, Sept. 8.
Switch mechanism, Condition responsive electric. J. L. Slonneger. 2,651,692, Sept. 8.
Switch mechanism, Flat crossbar. J. Kruithof. 2,651,682, Sept. 8.
Switch mechanism for coin selectors of the gravity-feed type. W. J. Summers. 2,651,697, Sept. 8.
Switch mounting. E. Nathan. 2,651,281, Sept. 8.
Switching device. M. M. Levy. 2,651,718, Sept. 8.
Switching device, Electron. J. J. B. Lair. 2,651,740, Sept. 8.
Switching system, Automatic. P. C. Borel and M. R. Mauge. 2,651,681, Sept. 8.
Swivel. C. Miller. 2,651,533, Sept. 8.
Synthetic lubricating oil. L. A. Mikeska and L. T. Eby. 2,651,657, Sept. 8.
System of radiant heat exchanging. C. A. Mills. 2,651,503. Sept. 8.
Table: *See*—
Drop table.
Knockdown cabinet-type display table.
Table with folding top, Combination extension. M. Wurm, 2,651,555, Sept. 8.
Tank gauge. B. E. Colburn. 2,651,200, Sept. 8.
Tank with floating roof. F. O. Mjellem. 2,651,433, Sept. 8.
Tape for slide fasteners. N. J. Poux. 2,651,092, Sept. 8.
Tape, Multiple layer stay. D. S. Bruce, P. W. Herrlinger, and H. L. Heise. 2,651,588, Sept. 8.
Telephone subset wiring-plan system. W. G. Storey. 2,651,683, Sept. 8.
Television transmission from intermittent film by means of pulsed pickup tube. R. Theile. 2,651,674, Sept. 8.
Temperature control unit for piezoelectric crystal. E. E. Overbey and J. D. Holmbeck. 2,651,731, Sept. 8.
Temperature indicator. A. H. Lamb. 2,651,203, Sept. 8.
Temperature responsive system. R. A. Prior. 2,651,704, Sept. 8.
Temporarily covering articles. V. F. Harrington. 2,651,119, Sept. 8.
Terminal having conductor-severing edge, Electrical. J. Oortgijsen. 2,651,768, Sept. 8.
Terraced garden. M. L. Esmay and P. O. Esmay. 2,651,143, Sept. 8.
Tetraalkyl esters of 1,2-ethanediphosphonic acid, Preparing. E. C. Ladd and M. P. Harvey. 2,651,656, Sept. 8.
Therapeutic electrode. W. J. Browner. 2,651,304, Sept. 8.
Thermal overload switch. R. E. Seely. 2,651,696, Sept. 8.
Thermometer. G. P. Burns. 2,651,202, Sept. 8.
Thermoplastic film-forming machine. L. Hornbostel. 2,651,076, Sept. 8.
Thermosensitive resistance element. B. B. Jacobsen, C. T. Daly, D. L. Thomas, H. Wolfson, S. C. Shepard, and D. Green. 2,651,699, Sept. 8.
Thermostatic mixing valve. L. Troy. 2,651,467, Sept. 8.
Time synchronising mechanism. O. H. Dicke. 2,651,168, Sept. 8.
Timer, Electronic. W. H. Esselman. 2,651,770, Sept. 8.
Timing device, Electric. B. D. Dorfman. 2,651,166, Sept. 8.
Timing mechanism. S. J. Smith and J. Isreeli. 2,651,361, Sept. 8.
Tissue dispenser. J. W. Fay. 2,651,400, Sept. 8.
Tobacco pipe bowl. R. O. Ferguson. 2,651,307, Sept. 8.
Toilet seat cover lock. R. R. Rowe and L. J. Schuppert. 2,651,053, Sept. 8.
Tool: *See*—
Auto body repairing tool. Outside pipe cutting tool.
Broaching tool. Pole-shoe tool.
Tool for cleaning waste pipes. W. J. Collison. 2,651,067, Sept. 8.
Toothbrush. M. Zimmerman. 2,651,070, Sept. 8.
Toothbrush and tongue scraper, Conformable. K. Seko. 2,651,068, Sept. 8.
Torque indicating and shock absorber device. R. R. Crookston and J. S. Waters. 2,651,197, Sept. 8.
Toy bomb. C. E. Buxton. 2,651,142, Sept. 8.
Toy, Magnetic. G. M. Kovac. 2,651,140, Sept. 8.
Tractor, High-clearance crawler. I. P. de la Llana. 2,651,378, Sept. 8.
Traffic controlling system for railroads, Centralized. G. J. Johanek and T. J. Judge. 2,651,711, Sept. 8.
Transformer, Variable band-width. E. Toth. 2,651,761, Sept. 8.
Transmission chain for V-type pulleys. E. Karig. 2,651,211, Sept. 8.
Transmitter, Electric current impulse. O. Moser. 2,651,676, Sept. 8.
Transplanting machine. W. S. McGowan. 2,651,405, Sept. 8.
Trap: *See*—
Liquid seal trap.
Treating conversion catalysts. R. N. Watts and J. P. Bilisoly. 2,651,599, Sept. 8.
Treating hydrocarbons. B. L. Moulthrop. 2,651,595, Sept. 8.
Treatment of alumina containing catalytic composites. L. Schmerling. 2,651,617, Sept. 8.
Treatment of fabric. A. Melville. 2,651,098, Sept. 8.
Treatment of hydrocarbon synthesis naphtha. B. N. Hill. 2,651,654, Sept. 8.
Treatment of hydrocarbon waxes. R. T. Loughran. 2,651,655, Sept. 8.
Treatment of pentaerythritol mother liquor. E. J. Russell. 2,651,662, Sept. 8.
Treatment of textile materials. E. H. Rossin. 2,651,587, Sept. 8.
Trip timing meter. H. A. Highstone. 2,651,456, Sept. 8.
Truck and attachment therefor, Lift. B. A. Dickson. 2,651,428, Sept. 8.
Tube: *See*—
X-ray tube.
Tumbler pad for drying machines. S. M. Hyman. 2,651,509, Sept. 8.
Turbine. G. B. R. Feilden. 2,651,492, Sept. 8.
Turbine disk. T. A. Persson. 2,651,494, Sept. 8.
Turbine inlet structure. F. P. Corbett. 2,651,495, Sept. 8.
Turbine plant, Semiclosed cycle gas. G. Bolsezian. 2,651,174, Sept. 8.
2,4-dichlorophenoxyacetic acid, Preparation of. J. C. R. Warren and M. Kulka. 2,651,659, Sept. 8.
2-pyrrolidone-5-carboxamide derivatives and preparing the same. R. B. Angier. 2,651,639, Sept. 8.
2,2,3,3-tetrachlorobutane, Preparation of. E. C. Ladd and H. Sargent. 2,651,664, Sept. 8.
Typewriter retaining bracket. W. H. Ritchie and J. T. Humes. 2,651,483, Sept. 8.
Umbrella. J. C. Witty. 2,651,315, Sept. 8.
Undergarment, Woman's. N. Emerson. 2,651,047, Sept. 8.
Unloading of material. A. Crompton. 2,651,403, Sept. 8.
Utensil for food and beverage preparation by heat, Portable. T. Stiebel. 2,651,706, Sept. 8.
Utilizing radioactive materials for generating electrical energy, Method of and apparatus for. E. G. Linder. 2,651,730, Sept. 8.
V-belt power transmission, Centrifugally controlled variable speed. A. R. Clark. 2,651,210, Sept. 8.
Vacuum method and device for cooling produce. M. Kasser. 2,651,184, Sept. 8.
Valve: *See*—
Balanced plug valve. Multiple control valve.
Flow valve. Shuttle valve.
Gas lift valve. Thermostatic mixing valve.
Gate valve.
Valve bag. R. F. Bennett. 2,651,451, Sept. 8.
Valve control mechanism. J. T. Lusignan, Jr. 2,651,325, Sept. 8.
Vehicle: *See*—
Rider propelled toy vehicle.
Venetian blind cover. M. E. Skwark. 2,651,357, Sept. 8.
Ventilating system. J. A. Marquardt. 2,651,250, Sept. 8.
Vibrating screen. G., C., and G. A. Overstrom. 2,651,419, Sept. 8.
Vibration detector, Seismic. J. A. Stafford. 2,651,769, Sept. 8.
Vibratory device, Ultrasonic. P. B. Carwile. 2,651,148, Sept. 8.
Vinyl halide-vinylidene halide-acrylic ester tripolymers. W. L. J. de Nie. 2,651,626, Sept. 8.

Visor for automobiles, Inside reflection. R. J. Chonoski and H. W. Hacker. 2,651,543, Sept. 8.
Vulcanizing rubber and product thereof. R. O. Zerbe. 2,651,625, Sept. 8.
Walled structure, Inflatable. V. H. Hasselquist. 2,651,314, Sept. 8.
Warp beam construction. S. A. Harris and C. A. Sinquefield. 2,651,478, Sept. 8.
Warp beam or the like. S. Stanworth. 2,651,475, Sept. 8.
Washer for fire hoses. C. M. McBeth. 2,651,312, Sept. 8.
Washing and sterilizing machine, Tray. C. M. O'Connor. 2,651,065, Sept. 8.
Washing machine for agitating clothes and cleansing liquid by the use of air jets submerged in said cleansing liquid. J. Barnes. 2,651,191, Sept. 8.
Waste collector on thread-working textile machines, Pneumatic. W. Siegenthaler. 2,651,473, Sept. 8.
Watertight cable connector. A. J. Wayman. 2,651,529, Sept. 8.
Water volume control. C. G. Vonk. 2,651,693, Sept. 8.
Wave signal translating and separation system. H. R. L. Lamont and R. G. Robertshaw. 2,651,759, Sept. 8.
Wax coating apparatus. J. A. Zinn, Jr., O. Wennberg, and J. Swendsen. 2,651,284, Sept. 8.
Weatherstrip for metal casement windows. T. O. Craig, Jr. and J. M. Lewis. 2,651,392, Sept. 8.
Weight on bit indicator. J. T. Hayward. 2,651,198, Sept. 8.
Wheel: See—
Buffing wheel.
Wheel cover. G. A. Lyon. 2,651,548, Sept. 8.
Wheel rim construction. M. L. Monette. 2,651,348, Sept. 8.
Winding core support. E. K. Bauer. 2,651,479, Sept. 8.
Window and blind, Combination. P. R. Kopp. 2,651,085, Sept. 8.
Window frame assembly. J. Sylvan. 2,651,393, Sept. 8.
Window structure. M. J. Nardulli. 2,651,083, Sept. 8.
Window structure. J. V. Rylander. 2,651,062, Sept. 8.
Windshield cleaner system. A. Rappl. 2,651,072, Sept. 8.
Wire fence, Sectional. W. Carvelo and R. J. Morgan. 2,651,502, Sept. 8.
Worktable fixture for portable motor-driven saws. C. L. Spinney. 2,651,333, Sept. 8.
Wrapper, Package. G. G. and V. Y. Long. 2,651,131, Sept. 8.
Wringer, Mop. W. C. Roe. 2,651,073, Sept. 8.
X-ray cassette holder and clamping device. A. M. McFarland. 2,651,725, Sept. 8.
X-ray fluorescent screen. R. L. Longini and W. J. Hushley. 2,651,584, Sept. 8.
X-ray tube. W. Ehrenberg and W. E. Spear. 2,651,727, Sept. 8.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 8, 1953

NOTE.—First number—class, second number—subclass, third number—patent number

1— 3: 2,651,034
10: 2,651,035
2,651,036
2— 26: 2,651,037
42: 2,651,038
46: 2,651,039
67: 2,651,040
97: 2,651,041
116: 2,651,042
131: 2,651,043
171: 2,651,044
185: 2,651,045
209: 2,651,046
224: 2,651,047
2,651,048
278: 2,651,049
4— 68: 2,651,050
252: 2,651,052
283: 2,651,053
5— 47: 2,651,054
75: 2,651,055
78: 2,651,056
93: 2,651,057
110: 2,651,058
300: 2,651,059
10— 86: 2,651,060
12— 1: 2,651,061
2,651,062
12.4: 2,651,063
38: 2,651,064
13— 33: 2,651,098
15— 56: 2,651,065
104.02: 2,651,066
104.3: 2,651,067
111: 2,651,068
119: 2,651,069
185: 2,651,070
227: 2,651,071
253: 2,651,072
261: 2,651,073
16— 80: 2,651,074
111: 2,651,075
18— 9: 2,651,076
2,651,077
18: 2,651,078
61: 2,651,079
19— 109: 2,651,080
20—1.136: 2,651,081
32.2: 2,651,082
32.4: 2,651,083
55: 2,651,084
56.5: 2,651,085
74: 2,651,096
22— 31: 2,651,087
53: 2,651,088
23— 134: 2,651,562
186: 2,651,563
273: 2,651,564
288: 2,651,565
301: 2,651,566
24— 116: 2,651,089
178: 2,651,090
206.1: 2,651,091
206.16: 2,651,092
224: 2,651,093
279: 2,651,094
2,651,095
25— 119: 2,651,096
131.5: 2,651,097
26— 18.6: 2,651,098
29— 19: 2,651,099
25.42: 2,651,100
2,651,101
98.1: 2,651,102
123: 2,651,103
148: 2,651,104
155.6: 2,651,105
30— 126: 2,651,106
219: 2,651,107
337: 2,651,108
32— 35: 2,651,109
40: 2,651,110
33— 77: 2,651,111
148: 2,651,112
34— 78: 2,651,113
124: 2,651,114
35— 19: 2,651,115
35— 49: 2,651,116
36— 2.5: 2,651,117
14: 2,651,118
72: 2,651,119
37— 7: 2,651,120
42: 2,651,121
73: 2,651,122
101: 2,651,123
129: 2,651,124
38— 41: 2,651,125
40— 64: 2,651,126
85: 2,651,127
126: 2,651,128
152.1: 2,651,129
41— 15: 2,651,130
34: 2,651,131
43— 17.2: 2,651,132
42.37: 2,651,133
43.14: 2,651,135
43.4: 2,651,134
44.9: 2,651,136
56: 2,651,137
131: 2,651,138
147: 2,651,139
46— 48: 2,651,140
160: 2,651,141
200: 2,651,142
47— 33: 2,651,143
68: P.P.1,216
49— 81: 2,651,144
86: 2,651,145
2,651,146
50— 23: 2,651,147
51— 89: 2,651,148
100: 2,651,149
135: 2,651,150
193: 2,651,151
251: 2,651,152
52— 23: 2,651,567
53— 3: 2,651,153
5: 2,651,154
55— 51: 2,651,155
106: 2,651,156
137: 2,651,157
56— 18: 2,651,158
25.4: 2,651,159
44: 2,651,160
50: 2,651,161
60: 2,651,162
107: 2,651,163
126: 2,651,164
57— 107: 2,651,165
58— 19: 2,651,166
26: 2,651,167
34: 2,651,168
2,651,169
117: 2,651,170
60— 33.6: 2,651,171
2,651,172
30.08: 2,651,173
30.18: 2,651,174
30.23: 2,651,175
30.46: 2,651,176
30.61: 2,651,177
30.72: 2,651,178
52: 2,651,179
97: 2,651,180
61— 63: 2,651,181
62— 4: 2,651,182
15: 2,651,183
89: 2,651,184
114: 2,651,185
2,651,186
116: 2,651,187
131: 2,651,188
67— 31: 2,651,189
68— 12: 2,651,190
182: 2,651,191
184: 2,651,192
70— 211: 2,651,193
71— 2.6: 2,651,568
73— 17: 2,651,194
69: 2,651,195
88.5: 2,651,196
138: 2,651,197
181: 2,651,198
2,651,199
73— 317: 2,651,200
336: 2,651,201
371: 2,651,202
374: 2,651,203
208: 2,651,204
74— 5.1: 2,651,205
25: 2,651,206
110: 2,651,207
230.17: 2,651,208
2,651,209
2,651,210
236: 2,651,211
425: 2,651,212
505: 2,651,213
650: 2,651,214
711: 2,651,215
713: 2,651,216
734: 2,651,217
752: 2,651,218
75— 10: 2,651,569
130: 2,651,570
76— 37: 2,651,219
64: 2,651,220
77— 2: 2,651,221
37: 2,651,222
58: 2,651,223
80— 6: 2,651,224
51: 2,651,225
81— 3.1: 2,651,226
47: 2,651,227
54: 2,651,228
121: 2,651,230
124.1: 2,651,229
85— 17: 2,651,231
2,651,232
88— 16: 2,651,233
24: 2,651,234
39: 2,651,235
40: 2,651,236
57: 2,651,237
2,651,238
90— 17: 2,651,239
25: 2,651,240
92— 10: 2,651,571
73: 2,651,241
74: 2,651,242
94— 17: 2,651,243
95— 73: 2,651,244
89: 2,651,245
97— 43: 2,651,246
46.65: 2,651,247
47.44: 2,651,248
138: 2,651,249
98— 40: 2,651,250
99— 8: 2,651,572
134: 2,651,573
2,651,574
136: 2,651,575
148: 2,651,576
2,651,577
171: 2,651,578
225: 2,651,579
419: 2,651,251
100— 4: 2,651,252
101— 98: 2,651,253
2,651,254
125: 2,651,255
407: 2,651,256
2,651,257
103— 1: 2,651,258
8: 2,651,259
6: 2,651,260
11: 2,651,261
13: 2,651,262
2,651,263
149: 2,651,264
104— 32: 2,651,265
105— 308: 2,651,266
2,651,267
379: 2,651,268
106— 144: 2,651,580
167: 2,651,581
2,651,582
208: 2,651,583
107— 4: 2,651,269
14: 2,651,270
107— 63: 2,651,271
112— 11: 2,651,272
152: 2,651,273
203: 2,651,274
219: 2,651,275
113— 111: 2,651,276
114— 208: 2,651,277
115— 18: 2,651,278
116— 34: 2,651,279
60: 2,651,280
133: 2,651,281
117— 33.5: 2,651,584
54: 2,651,585
120: 2,651,586
186.8: 2,651,587
118— 1: 2,651,282
2: 2,651,283
6: 2,651,284
19: 2,651,285
34: 2,651,286
51: 2,651,287
108: 2,651,288
324: 2,651,289
119—14.84: 2,651,290
54: 2,651,291
121— 23: 2,651,292
122— 20: 2,651,293
134: 2,651,294
123— 44: 2,651,295
98: 2,651,296
119: 2,651,297
199: 2,651,298
125— 83: 2,651,299
126— 19: 2,651,300
22: 2,651,301
57: 2,651,302
208: 2,651,303
417: 2,651,304
129— 16: 2,651,305
131— 37: 2,651,306
195: 2,651,307
228: 2,651,308
132— 34: 2,651,309
48: 2,651,310
89: 2,651,311
134— 122: 2,651,312
133: 2,651,313
135— 1: 2,651,314
20: 2,651,315
136— 182: 2,651,680
137— 57: 2,651,316
84: 2,651,317
122: 2,651,318
155: Re.23,710
2,651,319
246: 2,651,320
408: 2,651,321
525: 2,651,322
528: 2,651,323
621: 2,651,324
653: 2,651,325
657: 2,651,326
781: 2,651,327
788: 2,651,328
138— 97: 2,651,329
139— 11: 2,651,330
247: 2,651,331
257: 2,651,332
143— 6: 2,651,333
95: 2,651,334
106: 2,651,335
135: 2,651,336
174: 2,651,337
144— 32: 2,651,338
309: 2,651,339
145— 5: 2,651,340
33: 2,651,341
146— 12: 2,651,342
64: 2,651,343
83: 2,651,344
281: 2,651,345
150— 26: 2,651,346
153— 223: 2,651,347
410: 2,651,348
152— 16: 2,651,349
154— 45: 2,651,350
53.5: 2,651,588
154— 140: 2,651,589
155— 27: 2,651,351
47: 2,651,352
131: 2,651,353
186: 2,651,354
196: 2,651,355
17: 2,651,356
159— 34: 2,651,357
178: 2,651,358
180: 2,651,359
186: 2,651,360
161— 1: 2,651,361
164— 6: 2,651,362
11: 2,651,363
17: 2,651,364
25: 2,651,365
77: 2,651,366
166— 1: 2,651,367
2,651,368
2,651,369
2,651,370
13: 2,651,371
167— 22: 2,651,589
46: 2,651,591
56: Re.23,711
169— 1: 2,651,372
9: 2,651,373
11: 2,651,374
2,651,375
170—135.4: 2,651,376
174— 73: 2,651,670
94: 2,651,671
152: 2,651,672
178— 5.4: 2,651,673
7.2: 2,651,674
7.3: 2,651,675
17: 2,651,676
179— 15: 2,651,677
2,651,678
16: 2,651,679
18: 2,651,680
2,651,681
27.54: 2,651,682
81: 2,651,683
84: 2,651,684
171: 2,651,685
2,651,686
180— 6.3: 2,651,377
9.1: 2,651,378
12: 2,651,379
181— 24: 2,651,380
70: 2,651,381
182— 23: 2,651,382
183— 37: 2,651,383
188— 73: 2,651,384
88: 2,651,385
96: 2,651,386
181: 2,651,387
184: 2,651,388
190: 2,651,389
221.1: 2,651,390
189— 1: 2,651,391
65: 2,651,392
75: 2,651,393
192— 46: 2,651,394
2,651,395
84: 2,651,396
143: 2,651,397
193— 37: 2,651,398
194— 101: 2,651,399
195— 36: 2,651,592
66: 2,651,593
196—14.12: 2,651,594
29: 2,651,595
31: 2,651,596
50: 2,651,597
2,651,598
52: 2,651,599
2,651,600
73: 2,651,601
147: 2,651,602
2,651,603
197— 2: 2,651,400
198— 20: 2,651,401
30: 2,651,402
73: 2,651,403
128: 2,651,404
198— 179: 2,651,405
199— 18: 2,651,406
200— 82: 2,651,657
61.34: 2,651,658
61.76: 2,651,659
67: 2,651,660
82: 2,651,661
2,651,662
84: 2,651,663
114: 2,651,664
2,651,665
122: 2,651,666
153: 2,651,667
163—2,651,668
201— 63: 2,651,669
2,651,700
202— 30.5: 2,651,604
2,651,605
42: 2,651,606
188: 2,651,607
204— 14: 2,651,608
82: 2,651,609
85: 2,651,610
105—2,651,611
193: 2,651,612
247: 2,651,613
297: 2,651,614
208— 43: 2,651,407
56: 2,651,408
57: 2,651,409
65: 2,651,410
207— 17: 2,651,411
209— 82: 2,651,412
168: 2,651,413
210— 2: 2,651,615
43: 2,651,414
51: 2,651,415
75: 2,651,416
112: 2,651,417
182: 2,651,418
198: 2,651,419
211— 51: 2,651,420
55: 2,651,421
69: 2,651,422
214— 14: 2,651,423
147: 2,651,424
307: 2,651,425
355: 2,651,426
377: 2,651,427
654: 2,651,428
216— 55: 2,651,429
58: 2,651,430
217— 16: 2,651,431
89: 2,651,432
219— 4: 2,651,701
19: 2,651,702
2,651,703
20: 2,651,704
39: 2,651,705
43: 2,651,706
44: 2,651,707
47: 2,651,708
220— 28: 2,651,433
85: 2,651,434
222— 9: 2,651,435
145: 2,651,436
208: 2,651,437
254: 2,651,438
255: 2,651,439
473: 2,651,440
224— 5: 2,651,441
226— 2: 2,651,442
18: 2,651,443
38: 2,651,444
95: 2,651,445
227— 49: 2,651,446
229— 4.5: 2,651,447
14: 2,651,448
23: 2,651,449
44: 2,651,450
62.5: 2,651,451
230— 103: 2,651,452
151: 2,651,453
172: 2,651,454
233— 21: 2,651,455
71: Re.23,712
235— 61: 2,651,456

235— 61: 2,651,457
2,651,458
2,651,459
61.11: 2,651,461
61.6: 2,651,460
62: 2,651,462
63: 2,651,463
92: 2,651,464
2,651,465
98: 2,651,466
236— 12: 2,651,467
44: 2,651,468
238— 349: 2,651,469
240— 6.45: 2,651,709
10.6: 2,651,710
241— 5: 2,651,470
86: 2,651,471
242— 34: 2,651,472
35.5: 2,651,473
75: 2,651,474
116: 2,651,475
2,651,476
123: 2,651,477
124: 2,651,478
130: 2,651,479
244—17.23: 2,651,480
145: 2,651,481
246— 3: 2,651,711
34: 2,651,712
63: 2,651,713
253: 2,651,714
248— 18: 2,651,482
25: 2,651,483
61: 2,651,484
102: 2,651,485
120: 2,651,486
166: 2,651,487
265: 2,651,489

248— 289: 2,651,488
250— 7: 2,651,715
27: 2,651,716
2,651,717
2,651,718
2,651,719
33.65: 2,651,720
2,651,721
36: 2,651,722
41.9: 2,651,723
49: 2,651,724
58: 2,651,725
83.6: 2,651,726
93: 2,651,727
251— 93: 2,651,490
118: 2,651,491
125: 2,651,051
252— 41: 2,651,616
413: 2,651,617
253— 39.1: 2,651,492
59: 2,651,493
77: 2,651,494
78: 2,651,495
2,651,496
254— 43: 2,651,497
127: 2,651,498
255— 1.6: 2,651,499
1.8: 2,651,500
71: 2,651,501
256— 33: 2,651,502
257— 8: 2,651,503
133: 2,651,504
136: 2,651,505
141: 2,651,506
241: 2,651,507
247: 2,651,508
259— 1: 2,651,509
143: 2,651,510

260— 3: 2,651,618
41: 2,651,619
45.9: 2,651,620
2,651,621
2,651,622
2,651,623
67.5: 2,651,624
79.5: 2,651,625
80.5: 2,651,626
91.5: 2,651,627
93.5: 2,651,628
225: 2,651,629
243: 2,651,630
248: 2,651,631
251: 2,651,632
2,651,633
283: 2,651,634
2,651,635
288: 2,651,636
289: 2,651,637
310: 2,651,638
328.3: 2,651,639
332.3: 2,651,640
380: 2,651,641
397.1: 2,651,642
2,651,643
398.5: 2,651,644
401: 2,651,645
410.7: 2,651,646
412.1: 2,651,647
438: 2,651,648
2,651,649
439: 2,651,650
448.2: 2,651,651
449: 2,651,652
449.6: 2,651,653
450: 2,651,654
2,651,655

260— 461: 2,651,656
463: 2,651,657
471: 2,651,658
521: 2,651,659
552: 2,651,660
562: 2,651,661
615: 2,651,662
2,651,663
658: 2,651,664
674: 2,651,665
683: 2,651,666
800: 2,651,667
261— 52: 2,651,511
114: 2,651,512
262— 1: 2,651,513
263— 19: 2,651,514
51: 2,651,515
264— 3: 2,651,516
7: 2,651,517
265— 27: 2,651,518
273— 42: 2,651,519
118: 2,651,520
136: 2,651,521
160: 2,651,522
274— 10: 2,651,523
2,651,524
280— 5.32: 2,651,525
33.55: 2,651,526
218: 2,651,527
285— 6.5: 2,651,529
49: 2,651,528
287— 53: 2,651,530
2,651,531
54: 2,651,532
91: 2,651,533
288— 3: 2,651,534
292— 74: 2,651,535
165: 2,651,536

292— 357: 2,651,537
294— 65.5: 2,651,538
92: 2,651,539
296— 1: 2,651,540
44: 2,651,541
56: 2,651,542
97: 2,651,543
299— 88: 2,651,544
97: 2,651,545
107: 2,651,546
114: 2,651,547
301— 37: 2,651,548
302— 17: 2,651,549
307— 88: 2,651,726
132: 2,651,729
308— 1: 2,651,550
3: 2,651,551
6: 2,651,552
127: 2,651,553
196: 2,651,554
310— 3: 2,651,730
9: 2,651,731
95: 2,651,732
111: 2,651,733
169: 2,651,734
231: 2,651,735
311— 67: 2,651,555
312— 15: 2,651,556
257: 2,651,557
274: 2,651,558
329: 2,651,559
313— 36: 2,651,736
171: 2,651,737
315— 5: 2,651,738
22: 2,651,739
167: 2,651,740
168: 2,651,741
171: 2,651,742

315— 191: 2,651,743
317— 191: 2,651,744
234: 2,651,745
318— 55: 2,651,746
203: 2,651,747
453: 2,651,748
320— 28: 2,651,749
321— 48: 2,651,750
324— 30: 2,651,751
32: 2,651,752
57: 2,651,753
92: 2,651,754
116: 2,651,755
154: 2,651,756
332— 38: 2,651,757
2,651,758
333— 6: 2,651,759
29: 2,651,760
77: 2,651,761
336— 30: 2,651,762
339— 93: 2,651,763
100: 2,651,764
230: 2,651,765
246: 2,651,766
265: 2,651,767
278: 2,651,768
340— 17: 2,651,769
20: 2,651,770
190: 2,651,771
268: 2,651,772
292: 2,651,773
343— 120: 2,651,774
346— 2: 2,651,560
119: 2,651,561

Classification of Designs

D 3—13: Des. 170,355
D 4— 3: Des. 170,353
D14— 3: Des. 170,358
D31— 4: Des. 170,360
D33— 3: Des. 170,354
D34— 4: Des. 170,348
D36— 8: Des. 170,390
D42— 7: Des. 170,391

D45— 4: Des. 170,366
Des. 170,367
Des. 170,371
Des. 170,372
Des. 170,373
Des. 170,374
Des. 170,388
9: Des. 170,349

D45— 9: Des. 170,359
Des. 170,370
Des. 170,385
16: Des. 170,365
Des. 170,368
Des. 170,369
Des. 170,375
Des. 170,376

D45—16: Des. 170,377
Des. 170,378
Des. 170,379
Des. 170,380
Des. 170,381
Des. 170,382
Des. 170,383
Des. 170,384

D48— 3: Des. 170,360
D49— 1: Des. 170,350
D56— 4: Des. 170,347
9: Des. 170,363
D57— 1: Des. 170,386
D63— 1: Des. 170,352
D65— 1: Des. 170,387
D71— 1: Des. 170,393

D81— 1: Des. 170,361
19: Des. 170,364
D82— 2: Des. 170,362
D83— 8: Des. 170,357
D85— 2: Des. 170,392
D86—10: Des. 170,351
D90— 3: Des. 170,356

U. S. GOVERNMENT PRINTING OFFICE: 1953

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE ECKERT

No. 5959. Decided April 15, 1953

[203 F.2d 729; — USPQ —]

PATENTABILITY — PARTICULAR SUBJECT MATTER — INTERNAL COMBUSTION ENGINE.

Certain claims to an internal combustion engine *Held* properly rejected as unpatentable over the cited prior art.

APPEAL from Patent Office. Serial No. 722,876.

AFFIRMED.

Busser & Harding (*Frank S. Busser* of counsel) for appellant.

E. L. Reynolds (*Clarence W. Moore* of counsel) for the Commissioner of Patents.

O'CONNELL, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the rejection by the Primary Examiner of claims 26, 28 and 29 of appellant's application for a patent on an improvement in an internal combustion engine. Claims 19, 20, 21 and 22, the only other claims in the case, were allowed by the Examiner.

The prior art cited and relied upon by the Examiner included the following patents: Patton, 1,346,672, July 13, 1920; Lieo et al., 1,355,484, Oct. 12, 1920; Lieo et al., 1,479,918, Jan. 8, 1924; Bailey, 2,133,842, Oct. 18, 1938; Henson, 2,320,928, June 1, 1943; Smith, 2,354,620, July 25, 1944; Eckert, 2,465,638, Mar. 29, 1949.

Claim 28 is illustrative, the critical subject matter being here italicized:

28. An internal combustion engine comprising a rotatable shaft, two sets of opposed cylinders disposed about said shaft and having their axes parallel thereto, wobbler elements, one for each set of cylinders rotatable with the shaft and mounted thereon, pistons reciprocatory in said cylinders and operatively connected with said wobbler elements, means for simultaneously varying to equal degree the strokes of the pistons of both sets, and a chamber between each two opposed cylinders having inlet and exhaust ports, *the improvement which comprises a chamber that is narrow relative to the diameters of the cylinders and to the diameters of the inlet and exhaust ports, the pistons having such contour that, if moved to the extreme end of the cylinders, they penetrate said chamber but to a distance short of said inlet and exhaust ports*, said chamber being so dimensioned that the volume, between opposing pistons at the end of the compression stroke of the pistons, will have a substantially constant ratio to the volume between opposing pistons at the end of the expansion stroke of the pistons, regardless of length of the piston stroke.

The Examiner applied the disclosures of the references in various ways and the Board found no reversible error in his action. The Board, however, considered the patents to Patton, Lieo et al., No. 1,355,484, and Smith, used in the rejections by the Examiner thereupon, as merely cumulative, and in its decision relied upon appellant's prior patent to Eckert, No. 2,465,638, as the principal reference, and the disclosures of Lieo et al., No. 1,479,918, Bailey, and Henson as subsidiary references.

The Board observed that claims 28 and 29 were each restricted to having the combustion chamber, in which chamber the inlet and exhaust valves are mounted, extend longitudinally of the opposed cylinders, and having a small width compared to the cylinder diameter; and that claim 26, which depends upon claim 29, has the additional feature of the inlet and exhaust valves arranged opposite one another.

The appealed claims include a limitation designed to remedy a defect in appellant's prior patent covering an invention for increasing the compression ratio of an internal combustion engine in order to improve its power output and fuel efficiency. The record discloses a situation thus described in appellant's brief:

The objection to that embodiment of the invention disclosed in applicant's prior patent * * * is that at the end of a short compression stroke the opposing piston heads must so closely approach as to provide a combustion chamber of very small volume. This necessitated the provision in the cylinder of rather restricted inlet and outlet ports as in applicant's (Eckert) patent; or if these ports are of adequate area the pistons on a short stroke overlap the ports * * *: thus in either construction producing the same effect of unduly restricting inflow and outflow.

What applicant sought [in the case at bar] was to provide a construction in which the inlet and outlet ports are of adequately large area but which are not overlapped, but just cleared, by the piston heads, when, on the shortest piston stroke, the pistons must closely approach.

The Board carefully scrutinized the decision of the Examiner together with all of the facts of record and reached the following conclusion:

Appellant has set forth in the claims the mere selection of well known prior art features and substituted them for the corresponding features in his prior patent. When so arranged, no new or unexpected result is obtained. When using these features for the corresponding features of the Eckert prior patent, it would of course be necessary to so proportion these parts as to provide for a constant compression ratio for various adjustments of stroke as fully taught in the basic reference.

The first eight or nine lines of the claim of the present application hereinbefore set forth define the same combination, with a different form of combustion chamber, that is claimed in appellant's prior patent. That patent shows a combustion

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chamber formed, in part, by the space between the opposed pistons in each cylinder and, in part, by a side combustion space in which the inlet and exhaust valves are located.

Lieo et al., No. 1,479,918, clearly shows a long, narrow combustion chamber having a small width when compared to the diameter of the inlet and exhaust ports as set forth in the appealed claims. Opposed pistons with a protuberance that enter the ends of a longitudinally arranged combustion chamber is disclosed by Bailey; and Henson shows opposed inlet and exhaust valves located centrally of the combustion chamber formed in the cylinder between oppositely disposed pistons.

It is true, as appellant remarked, that none of the references shows the entire combination of claimed elements. No such disclosure is required under the statute, and no invention in combining the features of the cited art appears to have been exercised.

For the reasons stated, the decision of the Board of Appeals is affirmed.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

GUINOT ET AL. *v.* HULL

No. 5906. Decided April 15, 1953. Petition for Rehearing Denied May 29, 1953

[204 F.2d 281; 97 USPQ 441]

1. INTERFERENCES—REDUCTION TO PRACTICE—CORROBORATION OF INVENTOR'S TESTIMONY.

"A study of the cases issuing from this court reflect the consistent application of the doctrine of independent corroboration of the inventor; that each case is decided upon the basis of the facts therein; and that the entire record is examined to determine whether the necessary proof is present in a given case."

2. SAME—SAME—OBSERVATION OF REACTION CONDITIONS MAY IDENTIFY CHEMICAL PRODUCT.

Held that the Board of Interference Examiners was correct in stating that where a reaction in chemistry has been so thoroughly explored that repeated past experience shows that under prescribed reaction conditions a certain product must necessarily result, it should not be necessary to conduct extensive tests to identify the product, and where the uncertainties in the process are non-existent, observation of the reaction conditions should be conclusive on the identity of the product.

3. SAME—PRIORITY OF CONVENTION—METHOD OF PRODUCING ALDOL.

The decision of the Board of Interference Examiners awarding priority of invention of certain counts directed to a method of producing aldol to appellee is affirmed.

APPEAL from Patent Office. Interference No. 83,325.

AFFIRMED.

Stevens, Davis, Miller & Mosher (*Ellsworth H. Mosher*, and *Melvin W. Sandmeyer*) for appellant.

Clarence M. Fisher (*Daniel I. Mayne, Harold N. Poweell*, and *Ernest H. Merchant* of counsel) for appellee.

WORLEY, *J.*:

This is an appeal in an interference proceeding by the senior party, Henri Martin Guinot and Louis Alheritiere, from a decision of the Board of Interference Examiners of the United States Patent Office which awarded priority of invention to the junior party, David C. Hull.

The interference was declared on May 21, 1947, between a patent to Hull, No. 2,428,846, issued October 14, 1947, on an application filed December 27, 1945, and appellants' application, Serial No. 592,719, filed May 8, 1945, which was held by the Examiner to be entitled, under the Boykin Act (Public Law No. 690), to the benefit of their French application, Serial No. 466,498, filed March 20, 1942. It was incumbent upon the junior party Hull, appellee here, to establish priority by a preponderance of the evidence. In an effort to discharge that burden, appellee took the testimony of witnesses and introduced in evidence certain documentary exhibits. Appellants, in electing to stand on the filing date of their French application, took no testimony and introduced no exhibits.

The subject matter of the invention is embraced in six counts, four of which are claims taken from the patent to appellee, and two of which are modified patent claims. The broadest, and also deemed to be the most illustrative, is count 1 which reads as follows:

1. The method of producing aldol by condensation of acetaldehyde which comprises continuously circulating a solution of acetaldehyde in aldol through a temperature-controlled reaction chamber, adding acetaldehyde and an aldol condensation catalyst to the circulating solution and withdrawing a portion of the circulating solution.

The record in the case is extensive; the opinion of the Board is thorough and comprehensive; and the briefs filed by counsel for the parties are clear and concise.

In his preliminary statement appellee alleged first disclosure to others, written description of the invention, reduction to practice, and the exercise of reasonable diligence in perfecting the invention as of January 9, 1941, that date being approximately fourteen months prior to the filing date of the French application, upon which the senior party Guinot et al. relies.

The two features herein are the steps of continuously circulating a solution of acetaldehyde in aldol through a temperature-controlled reaction chamber, and of adding acetaldehyde and an aldol condensation catalyst to the circulating solution and withdrawing a portion of the circulating solution.

During the interlocutory stage, Hull moved, among other motions, to dissolve the interference on the ground that Guinot et al. were not entitled to the benefit of their French filing date because that application did not disclose "a temperature-controlled reaction chamber," as recited in each of the counts, nor did it disclose "adding an acid to neutralize the alkaline catalyst." That motion was denied by the Examiner and that action was not disturbed by the Board. In view of our conclusion it is not necessary to consider that question.

Thus the basic issue here, as below, relates to the question of proof on the part of Hull to show that

aldol was actually produced, as alleged. As succinctly stated by the Board

The strict priority phase of the case is somewhat simplified by admission by Guinot et al. that laboratory work allegedly performed in behalf of Hull in 1941 was in fact performed in the manner and at the times related by the witnesses * * *. *The position of Guinot et al. is that conceding the 1941 work of Hull there is no sufficient proof by chemical analysis that aldol was produced.* Further both parties were in agreement at final hearing that in order for Hull to prevail his 1941 activities must be shown to be a reduction to practice and that it is unnecessary and immaterial to the case to find when Hull conceived the invention. This consideration also eliminates any question relating to diligence. [Italics ours.]

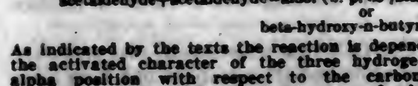
In view of the technical nature of the process involved and in order to provide some background of the state of the art, we believe it advisable to quote at length from the decision of the Board relative to those matters.

The reaction involved in the process of the counts is known historically in organic chemistry as the "aldol condensation." It is relatively ancient, well known and well investigated. It is famous as a mechanism for organic synthesis and every organic chemistry text at hand devotes a section to it. (Richter, 1899; Reid, 1929; Norris, 1931; Whittemore, 1937; Karrer, 1938; Fieser and Fieser, 1944). Whittemore (Organic Chemistry, 1937, p. 236) attributes the reaction to Wurtz in 1872 and states:

Such aldol combinations are of the utmost value in synthetic chemistry.

Richter in the American publication of 1899 mentions the condensation and its utility on page 193 thereof. Remsen in his Organic Chemistry of 1906 mentions the condensation in connection with the formation of inactive fructose from glycerose (Hull Exhibit 7). Through the years the mechanism of the reaction has become better understood and of increased usefulness.

The traditional reaction, the one with which we are concerned, is the aldol condensation in which two molecules of acetaldehyde in the presence of a base as catalyst and at appropriate temperature condense to form one molecule of aldol as follows:



acetaldehyde + acetaldehyde = aldol (b. p. 83°/20mm.)
or
beta-hydroxy-n-butyraldehyde

As indicated by the texts the reaction is dependent upon the activated character of the three hydrogens in the alpha position with respect to the carbonyl group (=C=O) of the adding molecule, one of which under the influence of small amounts of alkalis (alkali bicarbonates and carbonates, alkali acetates, dilute sodium hydroxide, and alcoholates) adds onto the oxygen of another aldehyde molecule (see Karrer, 1938, p. 144; Whittemore, 1937, p. 236; Norris, 1931, p. 192; Reid, 1929, p. 193). The texts also bring out that when aldol is formed the structure is such that the beta hydroxyl group is adjacent another of the active alpha hydrogens which condition is favorable for the formation and elimination of water upon heating. This results in crotonaldehyde $CH_3CH{=}CHCHO$, a useful compound but possessed of an extremely irritating oder. The ready formation of crotonaldehyde is thus a persuasive indication that the product heated contained aldol.

Reaction conditions for carrying out the aldol condensation were old and well known prior to Hull's 1941 activities as exemplified by the patents made of record by Guinot et al. A number of these patents were made of record in the Hull patent prosecution including Grunstein 1,234,156, Matheson 1,450,994, Herrly 1,598,522, Mueller-Cunradi et al. 1,881,853, and Thompson 2,318,341. The last patent was granted May 4, 1943, but the application was filed July 22, 1937, and it represented a development out of the same Kingsport, Tennessee, branch of the Eastman Kodak Company as the involved Hull activity. The first three patents involve batch processes and the last two continuous processes.

Grunstein used alkaline earth carbides as promoters and need not be discussed except to note that he taught that the aldol condensation generates a great amount of heat which if not controlled by strong cooling to 20° C. results in the production of higher polymers partly in place of the dimer aldol.

Matheson, Patent No. 1,450,994, used sodium hydroxide as promoter along with temperature control. Sodium hydroxide was used in about .5% concentration. The reaction if maintained below 10° C. shows no signs of resin formation but if allowed to rise to 20° C. for short periods still gives good results. The product is a thick colorless material which should be neutralised, sulphuric acid being suggested. If more than the prescribed amount of alkali be used there results a mixture of aldol with higher polymers, from which the aldol may be separated by distilling in vacuo. Herrly, Patent No. 1,598,522, taught in reference to the same reaction that aldol could be satisfactorily produced with the temperature rising to 40° to 50° C. but not in excess thereof provided the free alkali used was not in material excess of .1%. Nine hours is the time taken for the reaction after which the batch is cooled to about 20°C. and carefully neutralised with sulphuric acid. If excess acid is used higher polymers result. Completion of the reaction is ascertained by taking the specific gravity of the batch.

Mueller-Cunradi, Patent No. 1,881,853, contributed a continuous process. The reaction is carried out in four stages in series cooled efficiently to 3°, 8°, 15°, and 20° C. respectively. About .4% sodium hydroxide in proportion to the acetaldehyde is used but is added in the various stages.

The Thompson patent, 2,318,341, is concerned mainly with a series continuous process for producing paraldehyde from acetaldehyde using an acid catalyst but does mention the use of the process using an alcoholic catalyst to product aldol. Thompson points out that the continuous process has the advantage over the batch process in providing better heat control. When aldol is to be produced it is suggested that sodium hydroxide be used and temperature maintained between 5–25° C. The product should be neutralised and acetic acid is suggested.

Hull's inventive contribution over the foregoing was not in reactants or reaction conditions but in a manipulative improvement in the continuous process. As he points out in the remarks (page 5) accompanying his application amendment of February 6, 1947, the vital distinguishing feature of his invention over the prior art is that:

a solution of acetaldehyde in aldol is *continuously circulated or recycled through a temperature-controlled reaction chamber.* [Italics ours.]

Because the sole issue here is whether the Board erred in holding that the evidence submitted by Hull was sufficient to prove the actual production of aldol in the manner contained in the counts, we refer to previous holdings of this court on the measure of proof generally required under such circumstances.

As a preliminary thereto, we believe the following observation by the Board is appropriate:

Much of the difficulty ascribed to interference case law on chemical subject matter arises out of the nature of chemistry. In contrast to a mechanical invention for example, which has durability and easily identifiable individuality, the chemical invention often has neither. The new chemical process if not continued in operation is evanescent. Once carried out proof of its former existence is for the most part in records and the variable reliability of witnesses' memories. The newly synthesized chemical product frequently looks like a number of others and is seldom self-identifiable. Moreover, because of the greater variety of factors governing each chemical reactant as contrasted to the physical parts of a machine predictability of results has been less secure in the case of a new reaction. Determination of results in new reactions as a rule must be had on an empirical basis. The difficulties inherent in corroborating a transient phenomenon of some involvement have led to pleas for relaxation of the corroboration rule.

These pleas have received a sympathetic hearing and an explanation why notwithstanding the difficulties the rule cannot be relaxed beyond a certain line of demarcation. The line of demarcation is that the proof in order to receive weight as corroboration must not stem from the inventor but must be independent of the inventor. * * *

[1] A study of the cases issuing from this court reflect the consistent application of the doctrine of independent corroboration of the inventor; that each case is decided upon the basis of the facts therein; and that the entire record is examined to determine whether the necessary proof is present in a given case.

In the instant case, the first witness called on behalf of appellee was one Louis Sartain who held a B. S. in chemistry from the University of Tennessee and who was employed by the Tennessee Eastman Company in research and development work and in assisting in directing production in

the acid division of that company. Mr. Sartain testified that he had been instructed by Hull to set up an apparatus for the purpose of conducting aldol condensation in a continuous manner; that he had been acquainted with aldol since 1937 and had produced aldol in batches previous to the time he began working under Hull's supervision; namely, the latter part of December 1940; that Hull had directed that the reaction be carried out at approximately 10 degrees C., that being the critical temperature; and that such temperature was to be maintained with a brine-cooled jacket around the reaction column; that when a portion of the aldol from the reaction column was withdrawn, it was to be neutralized with acetic acid; that numerous tests and analyses convinced him that the mixtures contained a high percentage of aldol; and that the first laboratory apparatus for the purpose of conducting aldol condensation in a continuous manner was constructed by him during the week preceding January 9, 1941.

The testimony of that witness was corroborated by a Mr. J. Range Snodgress who held a master's degree in chemistry from the University of Tennessee, and by one Clair A. Marshall, Acting Assistant Superintendent of the Acetic Acid Department of the Tennessee Eastman Company.

Further testimony of Mr. Sartain discloses that the production of aldol by the condensation of acetaldehyde is an old reaction and described in numerous textbooks, and the purpose of his experiments was to produce it by a continuous method which could more easily be adapted to plant use, and that the purpose of so producing aldol was to make butyric acid from the product. The witness explained the steps in the conversion of aldol as follows:

> The aldol is heated to about 85 degrees centigrade, at which point a molecule of water is given off and crotonaldehyde is formed. The resulting crotonaldehyde is hydrogenated to form butyraldehyde. The butyraldehyde is then oxidized to form butyric acid.

The record discloses that the butyric acid was reacted with cellulose to form a plastic sold by Eastman Kodak Company under its trade-mark "Tenite."

On Sartain's induction into the Army, February 1941, the experimental work was assigned by Mr. Marshall to one Ralph Merryman who held a B. S. in Chemical Engineering from the University of Tennessee, and an M. S. from Georgia Institute of Technology, and who, at the time of the taking of testimony, had resigned from the Tennessee Eastman Company. Mr. Merryman testified that he had been instructed by Mr. Marshall to follow the work done by Mr. Sartain but to go into it on a more extensive scale; that prior to this time the only work done on the condensation of acetaldehyde with caustic had been on a laboratory scale; that although it had been a long time past, the most convincing thing he remembered was that they went further with the product and produced crotonaldehyde which was much easier to identify that aldol; and that crotonaldehyde can be readily identified because of its very disagreeable odor.

Upon the resignation of Mr. Merryman, one Robert Teeter was assigned to carry forward the work done by Sartain and Merryman. Mr. Teeter was a chemical engineer with a B. S. degree from Kansas State College. He was instructed to check and become familiar with the work of his predecessors in the aldol condensation field and to design a pilot plant for the purpose of studying subsequent steps in the reaction. He was assigned to perfect the means by which an analysis both of aldol and crotonaldehyde could be made and, before proceeding on that work, he made tests on the apparatus of both Mr. Sartain and Mr. Merryman to prove to his satisfaction that aldol had indeed been made by them. The product he recovered in those tests looked and felt like aldol and was converted to crotonaldehyde by the known process. Mr. Teeter was so sure that the reaction produced aldol that he then went ahead with the design and construction of the pilot plant, as he had been instructed to do. The pilot plant was built under Marshall's supervision, its purpose being to produce larger quantities than could be produced in the laboratory. The witness testified there was never any question in his mind or in the minds of others but that the product produced was aldol. After it was proved to their satisfaction that they obtained the product sought, the pilot plant was dismantled and Mr. Teeter set about to design a semi-works plant for a larger production of aldol to be converted into crotonaldehyde for use in making butyric acid for reacting with cellulose to produce "Tenite."

At the time of taking of testimony, that plant was still in operation and all operations had their basis in appellee's original conception of the idea of introducing acetaldehyde containing an alkaline catalyst into a circulating body of liquid which is cooled to maintain a relatively low temperature, by which the reaction was controlled. The liquid, including the aldol, rose to the top of the chamber and was withdrawn therefrom, and the aldol was neutralized with acetic acid. This is the method in issue and the evidence shows that in each phase of the development, aldol was produced and it was identified as such by various tests. Those tests included the distillation under vacuum of samples of the crude reaction product from the aldol reaction where the unreacted aldehyde was distilled off first, then the water and some crotonaldehyde that was produced by excessive heat was next distilled off, and the third compound distilled was aldol which boiled at 80 to 91 degrees at 20 millimeters. That it was aldol, the chemists were satisfied because it had all the characteristics of pure aldol, that is, the odor, physical appearance, and boiling point. Tests also were made against the aldol produced batch-wise in the laboratory to the apparent satisfaction of all that aldol had indeed been produced by the continuous method.

[2] With respect to the foregoing testimony, the

Board stated, and correctly we believe, in relation to the facts here present:

> It appears just and reasonable that where a reaction in chemistry has been so thoroughly explored that repeated past experience shows that under prescribed reaction conditions a certain product must necessarily result it should not be necessary to conduct extensive tests to identify the product. The need for identification exists in ratio to the uncertainties present. Where the uncertainties are less the need for identification is lessened. * * * Where uncertainties are non-existent in a well known process observation of the reaction conditions of the well known process should be conclusive on the identity of the product and where they are of no practical consequence even a physical check may be sufficient. Conversely where the uncertainties are material more identification in proportion is necessary * * *.
>
> Recapitulating it is apparent that a case is entitled to be tried on the individual merits of its evidence, that such evidence may include facts and circumstances other than the testimony of an independent witness and that such facts and circumstances, provided they do not stem from the inventor and are competent evidence are entitled to appropriate weight. Further in the case of identification of the product of a process the method by which the product is made is part of the facts and circumstances and all such evidence in the record is appropriate to be considered to the extent necessary in evaluating the degree of identification necessary in relation to how much is known or uncertain in the process. In short the degree of proof required is in proportion to the uncertainties and burden of proof of the individual case.

The Board further observed, relative to the evidence of record, that

> *Obviously the innovation of recycling, since it provided only a means of better control over temperature and mixing, introduced no new unknowns, uncertainties or imponderables over the well established reaction of the prior art. No new chemicals, catalysts or temperatures were used and within the range of conditions laid down by the prior art criticality was not a factor. The chemical laws governing the reaction as in any other reaction do not act capriciously and the conditions calling those laws into operation having been met, the product expected on the basis of experience was inevitable. The method by which the product was made is controlling. Under such circumstances the chemists were justified in the assumption they had produced aldol and there was no need for extensive proof or chemical analysis of the product. Observance of the prescribed conditions of reaction is the main criterion of the identity of the product in the circumstances here where uncertainties are lacking.* [Italics ours.]
>
> Nevertheless, there were certain rough checks exercised against the product. Color according to degree indicated higher polymerization and was largely avoided. The product was checked for specific gravity against a curve prepared some years before on the batch system. Most conclusively the product upon heating converted to the characteristic irritating lachrymator crotonaldehyde, a check prescribed by the texts. Finally although it was not a current check the subsequent history furnished convincing circumstantial evidence justifying the earlier conclusion.

[3] The contentions of appellants have been carefully examined but we are unable to agree that under the facts and circumstances of this case, the appellee failed to properly discharge his burden of proof. The decision of the Board of Interference Examiners is, therefore, affirmed.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

IN RE HILLERICH ET AL.

No. 5968. Decided April 15, 1953. Petition for rehearing denied May 29, 1953

[204 F.2d 287; 97 USPQ 451]

1. TRADE-MARKS—INDICATIVE OF ORIGIN OF GOODS—MERE OVAL LINE NOT INHERENTLY DISTINCTIVE.

   Held that a mere geometrical configuration, consisting of an oval line, is not inherently distinctive and must acquire that quality through such usage and association as will establish in the minds of the buying public that the oval clearly indicates goods manufactured by the applicants.

2. SAME—SAME—APPLICANTS' EFFORTS TO MAKE MARK DISTINCTIVE SHOWN TO BE UNSUCCESSFUL.

   Although the testimony shows that the applicants have made a concerted effort to familiarize the public with the significance of the oval, *Held* that, where 95% to 98% of the public call for the goods by the name in the oval, the applicants' advertising efforts have largely been in vain.

3. SAME—SAME—PERMISSIVE USE OF DESIGN BY OTHERS.

   Held that the fact that the applicants permit others to use the oval design with the word marks of the other concerns detracts from the validity of the contention that the oval is indicative of origin in the applicants.

4. SAME—REGISTRABILITY—OVAL LINE ON BATS AND THE LIKE.

   The decision of the Commissioner refusing to register an oval line as a trade-mark under section 2(f) of the act of 1946, on the ground that the evidence failed to show that the public attaches trade-mark meaning to the oval, is affirmed.

APPEAL from the Patent Office. Serial No. 499,230.

AFFIRMED.

Arthur F. Robert (*J. H. Kilcoyne* of counsel) for appellant.

E. L. Reynolds (*J. Schimmel* of counsel) for the Commissioner of Patents.

COLE, *J.*:

Placing reliance upon the provisions of section 2(f) of the Trade-Mark Act of 1946[1] (15 U. S. C. 1052), the appellant sought trade-mark registration (on the Principal Register) of a geometrical configuration, an oval line, for use on baseball, softball, and miniature bats.

In proceedings before the Patent Office, the applicant established that it is the largest manufacturer-distributor of bats in the United States, furnishing approximately 95% of all major league bats and more than 90% of all organized baseball bats, and furthermore, that its largest competitor is relatively small. In 1893, the applicant adopted and commenced to use the trade-mark "Louisville Slugger" on baseball bats, registering that mark in 1894. The oval shaped impression now in question was first used in 1893, but was restricted, at first, to use on baseball bats bearing the "Louisville Slugger" mark. In this instance, the oval was used to encircle the aforesaid word mark, and in 1906 a trade-mark registration was issued to applicant covering this usage. The applicant thereafter registered other trade-marks in connection with baseball and like bats, the oval here again being included as a part thereof, i. e., to enclose the word mark as well as other printed matter.

The oval has never, and is not now, being used apart from the word marks, but in all instances, except those later to be discussed, is found to enclose within it the word trade-marks of the applicant.

The specimens of record filed with the present application, representing marks actually used in commerce, show the oval design encircling a reg-

[1] Except as expressly excluded in paragraphs (a), (b), (c), and (d) of this section, nothing herein shall prevent the registration of a mark used by the applicant which has become distinctive of the applicant's goods in commerce. * * *

istered trade-mark. Somewhat illustrative is the drawing which discloses the mark "Louisville Slugger," the firm name of the applicant, the words, "Made in U. S. A." and "Louisville, Ky.", all encircled by the oval impression.

It is not claimed that the oval is inherently distinctive, but distinctiveness in and of itself is claimed to be established on the basis of proof submitted, principally by the testimony of numerous witnesses in a prior opposition proceeding (of record herein) and relied upon by the applicant. The issue presented in this appeal is not identical to the issue presented in the incorporated record. Here, we are dealing exclusively with the effort to secure a trade-mark for the oval as such. In the opposition proceeding, the applicant applied for a mark, oval in shape, but with accompanying words. The opposition thereto presented by the applicant herein featured its long use of an oval with such well known word marks as "Louisville Slugger," "Powerized," "Cracker Jack," "Leader," "Champion," "Semi Pro," "King of Field," "Safe Hit," and others, either inside or alongside the oval. It is clear from a reading of the notice of opposition that any thought of listing the naked oval as an established mark, and subsequently addressing the testimony to that as a fact, was secondary to the controlling and almost only claim, i. e., the use of the oval with words as stated. It is significant also that the applicant's mark in that proceeding embodied words in combination with an oval, as distinguished from an oval alone.

In the instant record, there are two affidavits of employees of the applicant company supplementing certain of the proof in the record to which we have referred. The issue presented for our consideration herein is whether or not the proof submitted supports the allegation that the oval impression, in itself, is recognized by the bat conscious public as a distinctive trade-mark indicating origin in the applicant, Hillerich & Bradsby Company.

The Assistant Commissioner, in affirming the decision of the Examiner denying registration to the involved mark, made the following pertinent observations:

> In no case, so far as the exhibits show, has the oval been used apart from other matter with which it is used on the various bats manufactured by the applicant. In each instance the oval is shown as used for the framing of matter used to identify the origin of the goods, and in every instance the printed matter is so coordinated with the oval in configuration and over-all design that to separate any one part of the entire mark from another, especially the oval framing, and hold that such part is the applicant's trade-mark would amount to mutilation of the mark as used. The oval, unless used alone or otherwise prominently displayed so as to stand out distinctively so that it may be recognized by purchasers as a trade-mark, as distinguished from mere framing for the mark as a whole, would ordinarily have no trade-mark significance. Applicant has not so used the oval as its trade-mark on the basis of the testimony and specimens submitted, nor has it been shown to my satisfaction that the oval, as used by the applicant, has acquired trade-mark significance.

Concededly, buyers never see applicant's bats with only the oval thereon. Consequently, it is clear that usage of the oval per se has never been attempted as an origin-designating medium.

[1] The oval, not being inherently distinctive, must acquire that quality through such usage and association as will establish in the minds of the buying public that the oval on a bat clearly indicates a bat manufactured by the applicant. Proof indicative of the fact that the oval has enjoyed long and extensive usage in connection with other registered word trade-marks does not fulfill that burden, but on the contrary would appear to make the applicant's task more difficult.

The applicant believes that the mark has become distinctive, i. e., the oval alone, and that the testimony offered in the incorporated record overwhelmingly supports this conclusion. The Examiner, however, in appraising the evidence, said:

> • • • the applicant has attempted to assume this burden [of proving distinctiveness] by making of record the transcript of a rather voluminous opposition proceeding, and by inclusion of certain affidavits from the officers of the applicant company. Such persons as are found in either category of the record are definitely "interested parties" and "specialists," and their opinions cannot be said to be indicative of the reaction of the public generally. There is nothing which would indicate that any members of the general purchasing public would be similarly aware of any of the attributed "trade-mark meanings" given by the selected parties to the use of the oval design framing the word-marks of the applicant.

In furtherance of this view, the Assistant Commissioner said:

> The testimony offered in this case by various dealers in applicant's goods, and others as well, amounts to nothing more than statements of opinions in regard to what those buying bats might consider as the applicant's trade-mark. In most instances, such replies of the witnesses are in response to leading questions asked of them. Such testimony is considered unconvincing in that it fails to establish that purchasers, as distinguished from dealers, actually recognize the oval apart from other matter appearing therewith • • •

We have examined the incorporated record with care. Twenty-eight witnesses testified by deposition. This number included six employees of the applicant, the remainder being men having a substantial connection with the baseball world, such as book publishers, players, coaches, sporting goods manufacturers and representatives thereof, buyers, distributors, and dealers in sporting equipment. Ample experience in their respective positions is recognized and their opinions may be said to be representative of their respective counterparts in an adequate cross-section of the nation.

The applicant states that the primary purpose of taking the depositions of its own employees was to establish long usage of the mark and extensive advertising emphasis on the oval. While the record does not contain any actual exhibits of such advertising, the testimony of these witnesses indicates that the oval was widely featured in certain displays. Attention was drawn to the oval as the "Louisville Slugger oval," "Hillerich and Bradsby oval," "Famous oval," etc.

Witness Hillerich, executive vice president of applicant, testified, in part, as follows:

> Q. Now in your advertising do you make any attempt to emphasize the oval trade-mark?
>
> A. We have always tried to emphasize the oval with the "Louisville Slugger"; we show our brand as we place it on the bat.
>
> Q. Now what form does your emphasis on the oval take?
>
> A. Our emphasis on the oval is primarily on the "Louisville Slugger" trade-mark within the oval, the Hillerich & Bradsby Co. trade-mark, and other names, and also just the plain oval.

An analysis of the testimony bearing on applicant's advertising indicates, quite obviously, that a concerted effort has been made to familiarize the public with the significance of the oval, but it is well to note that principal emphasis is afforded to the oval in connection with the "Louisville Slugger" bat, i. e., the "Louisville Slugger oval." The degree of success that the advertising has achieved in this respect is, of course, difficult of accurate appraisement, but witness Beard, a sporting goods distributor, testified, in part, as follows:

> Q. Are you familiar with the trade-mark "Louisville Slugger"?
>
> A. Yes, sir.
>
> Q. What would you say as to the trade-mark, if it has fame?
>
> A. I would say that 95 to 98 per cent of the public calls for "Louisville Sluggers."
>
> Q. Would you say that the "Louisville Slugger" is the most famous bat in the United States today?
>
> A. That is right.

[2] As previously noted, primary emphasis in advertising the oval is in connection with "Louisville Slugger" bats. In stating that 95 to 98 per cent of the public ask for "Louisville Slugger" bats, applicant's witness, Beard, indicates that little, if any, reference is made to the "Louisville Slugger oval" bat by the purchaser. Further, such testimony tends to establish that applicant's advertising efforts in connection with the oval have largely been in vain, particularly insofar as educating the mind of the buying public to associate the oval alone with the bats of the applicant company is concerned. In this respect, the Solicitor stated:

> • • • Surely if 95 to 98 per cent of the public ignore the oval design completely in asking for appellant's goods and call for them by the name in the oval, it is manifest that the oval has not acquired trade-mark significance and cannot be distinctive of applicant's goods. • • •

Counsel for applicant featured in his brief, and also during oral argument, excerpts of evidence submitted by witnesses Chambers, Burghardt, and Braunstein as contradicting these findings and conclusions. We cannot accept this viewpoint. The evidence thus offered does not impress us as being anywhere close to that appraisal. The answers given, as was stated by the Assistant Commissioner, were in response to extremely leading questions, due evidently to the fact that counsel for the objecting party was not present and did not participate in the proceedings, and the testimony thus adduced is not at all convincing that their reference to the oval was not intended to include words associated therewith. We cannot permit the statements by the few witnesses to which we have referred to control the meaning and purpose of the entire record, feeling as we do that the overwhelming weight of all the evidence presented supports the contrary view.

[3] We note also that applicant manufactures bats for certain independent concerns and "permits" the latter to use the oval design in precisely the same manner that applicant employs the oval, i. e., to enclose word marks of said independent companies. That the applicant would sanction such a practice, alleging as it does that the oval is distinctive of its bats, is clearly a circumstance detracting from the validity of its contention herein. The applicant claims, however, that its independent customers feel that, in view of the unexcelled reputation of bats manufactured by Hillerich & Bradsby Company, the oval thereon will materially aid in the sale of the product to the buying public. This, of course, presupposes that the public is fully acquainted with the significance of the oval alone as indicative of origin in the applicant. The fallacy of such a supposition finds appropriate expression in the Solicitor's brief, as follows:

> • • • appellant has no right in the marks "J C Higgins," "James W. Brine," "Honus Wagner" and "Coast To Coast Stores," each enclosed in an oval design, these marks being used for identical goods. Apparently, these independent parties have used the oval design with the full approval and sanction of appellant. The use of this design by others is likewise indicative of the fact that the oval cannot indicate origin of the goods in appellant. From statements in the record it would appear that bats sold by Sears, Roebuck & Co. bear the mark "J C Higgins." Customers of that huge merchandising concern seeing goods advertised in the catalogue • • • under the name "J C Higgins" would hardly associate such goods with appellant, merely because the name is enclosed in an oval as shown by the submitted specimen (R. 5). The purchasing public has been taught or educated to associate certain names with Sears, Roebuck & Co. and whether the bats sold under the "J C Higgins" name were made by appellant and the oval placed thereon by it would be something the purchasing public would have little likelihood of knowing. The same considerations apply to the other marks, though probably in lesser degree because of the difference in size and scope of the owners of those marks. • • •

[4] In conclusion, it is our considered opinion that the evidence fails to establish that the bat-buying public attaches the claimed trade-mark meaning to the oval as used on applicant's product, and we therefore deem it unnecessary to proceed further with a discussion of other grounds assigned by the tribunals below in rejecting the application on appeal.

For the reasons hereinbefore stated, the decision of the Assistant Commissioner is affirmed.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,111,345, W. O. Wells, Anti-wear guard for gloves, filed July 24, 1953, D. C., E. D. Ill. (Danville), Doc. 1164–D, *Wells Lamont Corp.* v. *Good Luck Glove Co.*

2,116,260, H. Corkran, Grain door for railway cars, filed July 27, 1953, D. C. Kans. (Topeka), Doc. T–725, *Signode Steel Strapping Co.* v. *Lawrence Paper Co. et al.*

2,120,667, B. Gruskin, Therapeutic agent for use in the treatment of infection, filed July 23, 1953, D. C., S. D. N. Y., Doc. 86/362, *Bristol-Myers Co.* v. *Ryston Co., Inc.*

2,121,005, C. Bener, Process of producing textiles with calender finish permanent to washing and product thereof, D. C. N. J. (Newark), Doc. 435/51, *Joseph Bancroft & Sons Co.* v. *Brewster Finishing Co., Inc.* Dismissed (notice July 24, 1953).

2,428,854, R. W. Randolph, Writing instrument, filed July 24, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1628, *The Parker Pen Co.* v. *Paper Mate Co., Inc., et al.*

2,479,530, O. E. Watson, Store basket and carriage, appeal filed July 28, 1953, C. C. A., 4th Cir. (Richmond), Doc. 6663, *Henry Heil* v. *Telescope Carts, Inc., et al.*

2,609,178, G. G. Kearful et al., Lifting jack, filed July 24, 1953, D. C., E. D. N. Y. (Brooklyn), Doc. 13702, *General Motors Corp.* v. *S. S. Kolodin et al.*

2,631,552, L. J. Korter, Aluminum shingle, filed July 27, 1953, D. C. Oreg. (Portland), Doc. 7084, *Aluminum Lock Shingle Corp. of America* v. *Perma-Loc Aluminum Shingle Corp. et al.*

2,645,288, Deters & Butler, Back circulator device, filed July 28, 1953, D. C. Kans. (Wichita), Doc. W–638, *Johnston Testers, Inc.* v. *Western Testers, Inc., et al.*

2,645,379, B. Audia, Automatic cleaner solution supply for beer distributing systems, filed July 23, 1953, D. C., W. D. Pa. (Pittsburgh), Doc. 11593, *B. Audia* v. *John F. Soinelli.*

Re. 23,594, V. Lundell, Trailer dump body, filed July 27, 1953, D. C., N. D. Iowa (Sioux City), Doc. 768, *V. Lundell* v. *Wallin Mfg. Co.*

Des. 163,556, N. T. Baldanza, Child's toilet seat, D. C. Mass. (Boston), Doc. 52/348, *Columbia Protekosite Co., Inc.* v. *Great American Plastics Co. et al.* Judgment holding design valid and infringed: injunction (notice July 28, 1953).

Des. 168,435, A. Atlas, Shoes, T. M. 444,470, T. M. 444,471, Brevitt Shoe, Ltd., same, D. C., S. D. Calif. (Los Angeles), Doc. 15135–WM, *Brevitt Shoes, Ltd.* v. *Harry Berlinger, Jr.* Consent judgment holding design and trade-marks valid and infringed; injunction July 7, 1953.

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116: Trade-Mark Act of July 5, 1946

T. M. 16,851, Bass, Ratcliff & Gretton, Ltd., Beer; T. M. 88,266, T. M. 138,572, same, Pale ale and beer; T. M. 26,749, Valentin Blatz Brewing Co., Bottled lager beer; T. M. 145,846, Val Blatz Brewing Co., Near beer, etc., D. C., S. D. N. Y., Doc. 81/376, *Blatz Brewing Co.* v. *Bass, Ratcliff & Gretton, Ltd.* Dismissed July 10, 1953.

T. M. 26,749. (See T. M. 16,851.)

T. M. 88,266. (See T. M. 16,851.)

T. M. 138,572. (See T. M. 16,851.)

T. M. 142,347, Western Cartridge Co., Certain named blasting supplies, ammunition, etc.; T. M. 149,543, same, Targets and traps; T. M. 512,735, Olin Industries, Inc., same, T. M. 433,818, T. M. 500,224, same, Blasting caps, shot shells, etc.; T. M. 505,178, same, Shot shells and rifle cartridges, filed July 20, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1590, *Olin Industries, Inc.* v. *Swanson Supply Co. et al.*

T. M. 145,846. (See T. M. 16,851.)

T. M. 149,543. (See T. M. 142,347.)

T. M. 285,003, Abbott Laboratories, Hypnotic sedative anesthetic compound, D. C., S. D. N. Y., Doc. 85/125, *Abbott Laboratories* v. *Fame Drug Co.* Consent judgment, defendant enjoined July 14, 1953.

T. M. 344,376, A. A. A., Signs, badges, medals, etc. made of base metal, D. C., S. D. Calif. (Los Angeles), Doc. 15593–WM, *A. A. A.* v. *Powerhouse Battery Co. et al.* Consent judgment restraining defendants (notice July 16, 1953).

T. M. 356,930, Greenbrier Frocks, Inc., Women's dresses, D. C., S. D. N. Y., Doc. 83/165, *Solovei Bros., Inc.* v. *Nan Reed, Inc.* Stipulation and order of discontinuance July 28, 1953.

T. M. 412,765, Kaufmann Department Stores, Inc., Ladies' wearing apparel, filed July 29, 1953, D. C., W. D. Pa. (Pittsburgh), Doc. 11624, *The May Department Stores Co.* v. *Forecast.*

T. M. 433,818. (See T. M. 142,347.)

T. M. 444,470. (See Des. 168,435.)

T. M. 444,471. (See Des. 168,435.)

T. M. 500,224. (See T. M. 142,347.)

T. M. 505,178. (See T. M. 142,347.)

T. M. 512,735. (See T. M. 142,347.)

T. M. 536,985, Klik Promotions, Inc., Device for carrying gloves, D. C., S. D. N. Y., Doc. 70/300, *Klik Promotions, Inc.* v. *Ashley Fifth Avenue, Inc.* Order dismissing cause for lack of prosecution (notice July 30, 1953).

T. M. 571,343, Wheeling Corrugating Co., Concrete reinforcing mesh, D. C., N. D. Ill. (Chicago), Doc. 53c223, *Wheeling Corrugating Co.* v. *Midwest Industrial Products Corp.* Consent judgment holding trade-mark valid and infringed, injunction granted; defendant's counterclaim dismissed July 15, 1953.

NOTICES

Adjudicated Patents

(D. C. Ill.) Behimer Patent No. 1,883,850, for an oil cracking process. Claims 12, 22, 36, 39, and 40 *Held* valid but not infringed. *Texas Co.* v. *Globe Oil & Refining Co.*, 112F. Supp. 455: — USPQ —.

(C. A. Calif.) Garbell Patent No. 2,441,758, for a fluid-foil lifting surface. Claims 1, 2, 3, 5, 6, and 12 *Held* not infringed. *Consolidated Vultee Aircraft Corporation et al.* v. *Maurice A. Garbell, Inc., et al.*, 204 F.2d 946; 98 USPQ 4.

(D. C. Oreg.) Baker Design Patent No. 165,259, for an ornamental design of ceiling light fixture, *Held* invalid. *Baker* v. *Webb*, 112 F. Supp. 394; 97 USPQ 263.

Cancellation Notice

[No. 6084]

Philip R. Meyers, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Wm. Sanderson & Son Ltd., 11 Quality Street, Leith, Edinburgh, Scotland, to effect the cancellation of trade-mark registration of Philip R. Meyers of 271 Madison Avenue, New York, N. Y., No. 377,839 dated May 14, 1940, and the notice of such proceeding sent by registered mail to the said Philip R. Meyers at the said address having been returned by the post office as being undeliverable, notice is hereby given that unless Philip R. Meyers, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published for three consecutive weeks. (Date of first publication—Sept. 1, 1953.)

ARTHUR W. CROCKER,
Assistant Commissioner of Patents.

Aug. 4, 1953.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,636,111. Enclosed Swinging Concealed Head Lamp. Patented Apr. 21, 1953. A pair of swinging sealed-beam headlamps mounted behind stationary lenses in the fender apron of an automobile are adapted to be angularly displaced in the direction of the turning of the automobile, to illuminate the roadway while negotiating turns and curves. In each fender opening a swinging block is mounted on a vertical axis between the arms of a stationary frame. Projections extending forwardly from the block hold, on a horizontal axis, a rockable block which supports a sealed-beam headlamp unit. A tie rod is pivotally joined by a clevis coupling at each end to fingers on the horizontally swinging blocks. On the tie rod is a rack portion meshing with a gear wheel which is operated by the automobile steering wheel to swing the two headlamp units in a corresponding direction about the vertical axis. A yielding detent ball and spring are provided to move the units back to center when the wheel returns to straight-ahead position and to maintain them there within a range of 5 degrees turning of the steering wheel in either direction. An adjusting plate is provided to raise or lower the beam in conformity with traffic laws. (Owner) Frank J. Salzer, 6149 South Spaulding Ave., Chicago 29, Ill. Groups 34—81; 38—11. Reg. No. 51,500.

Truman B. Wayne, of Truman B. Wayne & Associates, offers the following 16 patents for either exclusive or non-exclusive licensing on reasonable terms. Applications for license should be addressed to: Truman B. Wayne, P. O. Box 13086, Houston, Tex.

The patents listed relate to the treatment of mud-laden fluids employed in the drilling of wells. Groups 32—95; 35—32.

Pat. 2,216,865. Treatment of Drilling Fluids. Patented Oct. 8, 1940. Reg. No. 51,501.

Pat. 2,294,877. Treatment of Drilling Fluids. Patented Sept. 1, 1942. Reg. No. 51,502.

Pat. 2,307,813. Nitrogenous Hydrophilic Ester of a Water-Soluble Polybasic Acid. Patented Jan. 12, 1943. Reg. No. 51,503.

Pat. 2,331,279. Treatment of Mud-Laden Drilling Fluids. Patented Oct. 12, 1943. Reg. No. 51,504.

Pat. 2,331,280. Treatment of Mud-Laden Drilling Fluids. Patented Oct. 12, 1943. Reg. No. 51,505.

Pat. 2,331,281. Treatment of Mud-Laden Drilling Fluids. Patented Oct. 12, 1943. Reg. No. 51,506.

Pat. 2,331,282. Treatment of Drilling Fluids. Patented Oct. 12, 1943. Reg. No. 51,507.

Pat. 2,333,133. Treatment of Mud-Laden Drilling Fluids. Patented Nov. 2, 1943. Reg. No. 51,508.

Pat. 2,334,051. Treatment of Drilling Fluids. Patented Nov. 9, 1943. Reg. No. 51,509.

Pat. 2,387,694. Treatment of Drilling Fluids. Patented Oct. 23, 1945. Reg. No. 51,510.

Pat. 2,393,273. Treatment of Mud-Laden Drilling Fluids. Patented Jan. 22, 1946. Reg. No. 51,511.

Pat. 2,450,936. Conditioning of Drilling Fluids. Patented Oct. 12, 1948. (Available for sub-licensing under claims 6 and 8 only, the other claims having been disclaimed.) Reg. No. 51,512.

Pat. 2,452,021. Treatment of Drilling Fluids. Patented Oct. 19, 1948. Reg. No. 51,513.

Pat. 2,477,157. Treatment of Drilling Fluids. Patented July 26, 1949. Reg. No. 51,514.

Pat. 2,553,224. Treatment of Drilling Fluids. Patented May 15, 1951. Reg. No. 51,515.

Pat. 2,602,777. Treatment of Drilling Fluids. Patented July 8, 1952. Reg. No. 51,516.

Pat. 2,633,746. Activated Airplane Weather Vane. Patented Apr. 7, 1953. Weather vane for indicating the direction and velocity of the wind includes a tubular post having a horizontal arm rotatably mounted on the upper end for showing the direction of the wind. A vertically movable rod mounted in the arm extends downwardly into the post and has a body in the form of a small airplane with a propeller pivoted to the upper end. The rod is elevated to positions above the arm as the velocity of wind passing over the weather vane increases. An L-shaped lever pivotally mounted in the arm has baffles in the path of wind passing over the arm and also has connections to the lower end of the rod on which the airplane is carried. A counterweight in the post coacts with the lever to urge the airplane upwardly and coacts with the baffles for elevating the rod and airplane with increased velocity of wind passing over the arm. (Owner) Grant Miller, 5700 North Capitol St., Washington 11, D. C. Group 35—65. Reg. No. 51,517.

Pat. 2,630,594. Liquid Dispensing Brush. Patented Mar. 10, 1953. Liquid-dispensing brush for hair tonic, paint, liquid cleaner, etc., which may be dispensed into the bristles of the brush in desired quantities as the brush is being used. A hollow brush head has liquid passages intermediate the bristles and a hollow handle with a removable closure plug in its free end. The other end of the handle has a closure plate with a V-shaped opening. A valve plate has a hole that is adapted to move in and out of registry with the opening in the closure plate. An operating knob depends from the valve plate below the handle and brush base. In use, the plug is removed and the handle is filled with the desired liquid. By pressing the knob the valve plate is moved until the valve hole registers with the V-opening, so the liquid can flow from the handle into the brush head and through the liquid passages onto the bristles. (Owner) Berdene R. Fisher, 2017 Nez Perce, Boise, Idaho. Group 39—22. Reg. No. 51,518.

Pat. 2,636,318. Removable Washable Doll Cover. Patented Apr. 28, 1953. Removable, washable slip cover for dolls formed of cloth and stuffed with various materials. It includes a cover for the trunk and head of a doll which is slit down the back and joined by fasteners. The cover has armholes, is open at the bottom, and has wedge-shaped slits extending upwardly from the lower edge at each side. Arm and hand covers have triangular upper end portions, which are secured to the head and trunk cover in such a way as to leave ventilating openings at the armpits. Leg and foot covers have wedge-shaped slits extending downwardly from the upper edge at each side for securing to the trunk and head cover, with the wedge-shaped slits abutting to form ventilating openings. A hair foundation is removably mounted on the head cover. (Owner) Daisy Prater Lock, Burlington, Iowa. Group 39—42. Reg. No. 51,519.

Pat. 2,550,179. Folding Table With Leg Actuator. Patented Apr. 24, 1951. Folding table has the legs so interconnected that movement imparted to one leg is imparted to all. Pivoted to the underside of the table at the corners and adapted to swing in the same relative direction are four legs, each carrying a pivoted operating rod. Diagonal braces ending in U-shaped outwardly facing clips are secured to the under side of the table. Pivoted between the ends of the spaced legs of the clips are the spaced ends of U-shaped bell crank levers. A link rod is pivoted to the outer bent edge of each lever and to the adjacent edge of the next lever, and the operating rods carried by the table legs have their other ends pivoted to these link rods. Thus an interconnecting means is formed between all the table legs. Springs connecting each clip and its lever are mounted to swing from one side to the other of the lever pivotal points to apply force, holding the table legs in open or closed positions. (Owner) Leo H. Wirsig, Route 1, Deepwater, Mo. Group 25—11—19. Reg. No. 51,520.

Pat. 2,578,989. Portable Folding Stool. Patented Dec. 18, 1951. In this folding stool a main leg and auxiliary legs are closed or opened upon reciprocation of an operating connection, and are braced for rigidity when opened. A tubular main leg is, in effect, slit longitudinally to form a pair of auxiliary legs connected by internal hinges. An operating bar reciprocates longitudinally within the main leg and is pivotally connected to the auxiliary legs by links which act both as operating members and braces limiting the spread when open. A headed bolt means is provided to interlock the bar and main leg against independent axial rotation. A seat, formed with a hand-hold, is pivoted to the upper end of the bar. When the stool is folded, the seat is locked against the bar and forms a handle for carrying. When the stool is open, the main and auxiliary legs are tilted to the same angle. In a modification, the auxiliary legs are nested with the main leg and arranged to stand parallel when open. (Owner) Leo H. Wirsig, Route 1, Deepwater, Mo. Group 25—11—14—19. Reg. No. 51,521.

Des. 145,503. Design for a Hand Line Holder. Patented Sept. 3, 1946. (Term of patent 14 years.) Flat plastic holder for clotheslines, fishing lines, kite lines, yarns, etc., is grooved at each end and is provided with hand holes and openings. The hand holes at both ends and the openings at one end terminate in restricted slots so that the knotted end of a line may be inserted in any slot and the line wound on the holder. (Owner) Charles H. Badgley, 13228 Euclid Ave., East Cleveland 12, Ohio. Groups 30—81; 40. Reg. No. 51,522.

Des. 169,094. Design for Container for Game Counters. Patented Mar. 24, 1953. (Term of patent 14 years.) Container for poker chips and similar game counters comprises a pair of identical rack members, each having a circular base with a plurality of perpendicular game-counter-receiving rack elements spaced apart a distance equal to the width of a rack element. The rack members may be fitted together, one inverted upon the other, with the rack elements of the two members in alternate positions to provide a closed container. Each rack member has several short feet and complementary apertures so that several containers may be stacked with the feet of one engaged in the apertures of the one beneath it. (Owner) Donald T. Paddock, 915 Wilson Ave., Chicago 40, Ill. Groups 39—41—81; 40. Reg. No. 51,523.

United States Government Owned Patents

The following 28 U. S. Letters Patent owned by the United States Atomic Energy Commission have been made available for licensing by the Commission. Licenses will be granted to applicants on a non-exclusive, royalty-free basis. Applicants for licenses should apply to the Chief, Patent Branch, Office of the General Counsel, U. S. Atomic Energy Commission, Washington 25, D. C., identifying the subject matter by patent number and title.

Pat. 2,632,103. Stabilized Pulse Circuit. Patented Mar. 17, 1953. This patent relates to an electrical circuit for providing stabilized output pulses having a predetermined width and a substantially rectangular shape. The circuit is particularly adapted for use where it is desired to obtain output pulses having a substantially uniform characteristic regardless of any changes in circuit parameters. Group 36—19. Reg. No. 51,524.

Pat. 2,639,074. Implement for Use in Chemical Apparatus. Patented May 19, 1953. This patent describes an apparatus for packaging a volatile, hygroscopic substance, such as uranium tetrachloride, comprising an arrangement for charging one of a number of containers with the given substance, while simultaneously hermetically sealing another of the containers, all of the operations being conducted without exposing the hygroscopic substance to the atmosphere. Group 35—59. Reg. No. 51,525.

Pat. 2,640,866. Torque Compensated Galvanometer. Patented June 2, 1953. This invention relates to galvanometers and fluxmeters and specifically covers an improved means for compensating for the normal restoring torque of the usual torsional coil suspension employed in apparatus of this type. The compensating means of the patent employ the introduction of a current into the moving coil which is proportional to the angular deflection of the coil and is of such a polarity as to effectively neutralize the restoring torque for all positions of deflection range of the moving coil. Group 36—13. Reg. No. 51,526.

Pat. 2,640,924. Accelerator Target. Patented June 2, 1953. This patent describes an improvement in targets for particle accelerators and a method for producing an intense divergent X-ray beam. The method of producing the X-ray beam comprises a high energy electron beam traversing orbital paths of constantly decreasing radius in an electron accelerator, intercepting the electron beam with a thin plate of material having a low atomic number whereby the beam experiences an energy loss from ionization in the plate and the beam focus is substantially unimpaired, and bombarding a thick plate with the electron beam of reduced energy at the same angular point on the beam orbit as the beam interception and at a substantially decreased orbital radius therefrom. Group 36—62. Reg. No. 51,527.

Pat. 2,640,935. Mass Spectrometer Control. Patented June 2, 1953. This invention is concerned with mass spectrometers and their operation and provides improvements to the end that proper sensitivity is maintained by insuring against operation above an established critical pressure, and protection is provided for the elements within the mass spectrometer against excessive pressure increase. Group 36—13. Reg. No. 51,528.

Pat. 2,640,949. Electron Source. Patented June 2, 1953. This patent describes an improvement in electron sources and is in particular concerned with an improved method and means for producing an intense electron beam emitted in a controlled direction with a minimum power expenditure. The electron-producing means comprises in part an activating material disposed about a heater. The heat caused by the heater causes a part of the activating material to volatilize and pass through apertures in its envelope. The activating material forms a layer of monoatomic thickness on the wall of the envelope, which layer is electron emissive. An example of a suitable combination is an activating material of barium aluminate and a face formed of zirconium. Group 36—19. Reg. No. 51,529.

Pat. 2,640,950. Point Electron Source. Patented June 2, 1953. This patent relates to an improvement in electron sources and is particularly concerned with improvements in "point electron sources." The apparatus comprises a surface having a concave face with an aperture in its center, an electron-emissive element disposed within the aperture, an activating material about the electron-emitting element, and means to volatilize the activating material. Group 36—19. Reg. No. 51,530.

Pat. 2,640,953. Radiation Current Source. Patented June 2, 1953. This invention relates to a variable source of minute current which may be varied reproduceably. The source is comprised of a container having a gas therein ionized by emanations from an axially disposed radioactive source, a potential impressed on electrodes in the container to cause the ions to move, a collector electrode interposed in the path of the moving ions, and a movable shield disposed adjacent the collector electrode to collect at least a portion of the ions which move toward the collector electrode. Group 36—19. Reg. No. 51,531.

Pat. 2,642,527. Multichannel Analyzer. Patented June 16, 1953. This patent describes a pulse analyzer of the multichannel type employed in the precision sorting of pulses according to magnitude, and is especially useful in connection with the scintillation spectrometer or proportional counter. Group 36—13. Reg. No. 51,532.

Pat. 2,642,531. Radio-Frequency Oscillator. Patented June 16, 1953. This patent describes a radio-frequency oscillator for a cyclotron. The oscillator circuit is of a floating construction and has a low-impedance capacitive drive to supply a radio-frequency voltage which is free from parasitic oscillations. Group 36—19. Reg. No. 51,533.

Pat. 2,643,341. Mass Spectrometer Ion Source. Patented June 23, 1953. This invention relates to a method and apparatus for ejecting the ions from the ion chamber of a mass spectrometer and for selectively focusing ions of different masses. The invention is adapted to be adjusted over a wide range of potential differences and therefore useful over a wide range of masses without loss of sensitivity. Group 36—13. Reg. No. 51,534.

Pat. 2,643,342. Ionization Gauge. Patented June 23, 1953. This invention relates to an ionization gauge for a mass spectrometer and more specifically to an ionization gauge of the Phillips or Penning type employing the mag-

netic field of the mass spectrometer. Calibration of the gauge is independent of magnetic field strength variations. Leakage of stray ions and electrons from the beam is militated against, thus rendering the gauge sensitivity independent of the mass spectrometer beam intensity. A. C. voltage is applied between the cathode and anodes, the gauge performing its own rectification. Group 36—13. Reg. No. 51,535.

Pat. 2,643,343. Balanced Double Ionization Chamber X-Ray Monitor. Patented June 23, 1953. This invention relates to an apparatus for monitoring X-ray peak voltage. The apparatus is adapted to measure deviation from a certain intensity of X-rays and provided with means which facilitate readjustment of the X-ray intensity at a given value after a lapse of time. Group 36—92. Reg. No. 51,536.

Pat. 2,643,360. Voltage Supply Regulator. Patented June 23, 1953. This invention relates to a voltage supply regulator which may be inserted in either the positive or the negative lead of a D. C. supply line and produce effective regulation. The invention is especially useful in the regulation of high-current negative voltage supplies. Group 36—19. Reg. No. 51,537.

Pat. 2,644,913. Surge Suppressor. Patented July 7, 1953. This patent covers a device for suppressing electric surges, and transients from surges, and is especially useful in suppressing sparking in calutrons. The device is generally of tubular doughnut configuration and fabricated of a non-conducting material. The interior space of the device is filled with a gas of a low ionization potential which will produce large ion currents. The device encircles a conductor of the high-voltage leads and is spaced therefrom whereby surges above a predetermined magnitude in the conductor increase ionization of the gaseous medium and suppress the surges. Group 36—19. Reg. No. 51,538.

Pat. 2,644,922. Magnetic Flux Direction Determining Apparatus. Patented July 7, 1953. This patent describes a simple, rugged, and portable apparatus which is useful to quickly and accurately determine the direction of magnetic lines of force with extreme precision in the presence of an electrostatic field. Group 36—13. Reg. No. 51,539.

Pat. 2,645,610. Invention Process for the Separation of Isotopic Ions. Patented July 14, 1953. This invention provides a method of beneficiating mixtures of isotopes and like substances capable of ion transport, applied in a new manner rendering it possible to separate isotopes and to similarly separate other substances having different ion mobilities. The method here employed is one in which ions of different charge to mass ratio in an aqueous medium are transported at different rates in an electric field in a direction opposite to the flow of the dispersion medium. The rate of flow of the medium may be adjusted so as to continuously sweep back the slower moving ion. Group 36—19. Reg. No. 51,540.

Pat. 2,645,940. Snap Sampler. Patented July 21, 1953. This patent covers an airborne device for sampling the gaseous and solid content of a radioactive cloud for purposes of analysis. The device is mounted in the nose of a drone aircraft, with the nozzle and tube extending forward into the undisturbed air. The cloud components are "swallowed" by the sampler passing through the nozzle and tube into a collapsed envelope. The envelope then expands as it fills to a predetermined volume and then is automatically sealed. Group 36—13. Reg. No. 51,541.

Pat. 2,645,941. Atmospheric Dust. Patented July 21, 1953. This patent covers an airborne device for collecting samples of atmospheric dust. The device is mounted within a streamlined body mounted on an aircraft. Mounted within such body is a rotatable cylinder having an intake opening and an outlet with a filter disposed across the path therebetween. Means are provided to permit the removal of the filter even when the aircraft is in motion. Group 35—59. Reg. No. 51,542.

Pat. 2,646,252. Well Casting Soil Sampler. Patented July 21, 1953. This invention relates to an apparatus for samples from the side of a cased well. The apparatus comprises a drill bit for boring a hole in the casing, an auger bit for extracting soil specimens through the hole, a ram for plugging the hole, and means associated therewith for actuating the above elements. Group 35—32. Reg. No. 51,543.

Pat. 2,646,346. Multi-Stage Mixer-Settler Apparatus. Patented July 21, 1953. This patent describes a multi-stage mixer-settler unit wherein the flow of liquids under treatment is co-current in each stage while the flow through the entire unit is counter-current. The apparatus utilizes a centrifugal pump type impeller to provide fluid flow, interface control, and mixing action. This impeller is used in combination with an arrangement of horizontal and vertical plates which permits high mixing efficiency while maintaining good interface control. Group 35—59. Reg. No. 51,544.

Pat. 2,646,544. Automatic Temperature Regulator. Patented July 21, 1953. This invention relates to a very sensitive control system having the capability of maintaining a selected temperature within a minute fraction of a degree. The device utilizes a Wheatstone bridge circuit including two high-temperature and two low-temperature coefficient resistors. A departure in temperature from the desired amount unbalances the bridge. The potential derived from the bridge is mixed with the applied potential, thereby giving a resultant algebraic sum or difference in accordance with the direction of drift. The resultant potential is utilized to control a temperature-restoring heat source. Group 33—66. Reg. No. 51,545.

Pat. 2,646,925. Electric Integrator. Patented July 28, 1953. This invention relates to an electronic circuit for integrating the intervals of duration of electrical pulses. Specifically the apparatus may be employed for indicating the outage time due to sparking which has occurred in a run of an isotope-separating unit of the electromagnetic type. Group 36—13. Reg. No. 51,546.

Pat. 2,647,175. Ultra-Wide Band Amplifier Tube. Patented July 28, 1953. This patent describes a method and apparatus for amplifying electrical impulses with an exceptionally short resolution time. A preferred embodiment of the apparatus includes, in general, the combination of an elongated cathode, an elongated anode, and at least one elongated control electrode disposed in parallel relationship and with the control electrode apportioned into a propagating portion for the impulses to be amplified and a non-propagating portion. Suitable input and output connections are provided for the electrical impulses to be amplified. Group 36—61. Reg. No. 51,547.

Pat. 2,647,213. Isotope Separating Apparatus. Patented July 28, 1953. This patent describes an electromagnetic isotope separation apparatus having apertured accelerating and decelerating electrodes which are so arranged as to reduce flaring in the direction of the magnetic field in the ion beam projected through such electrodes. Group 36—19. Reg. No. 51,548.

Pat. 2,647,557. Heat Sealing Apparatus. Patented Aug. 4, 1953. This patent relates to a method and apparatus for sealing and cutting plastic tubing. The apparatus is highly mobile and maneuverable and adapted for remote manual operations, thus affording safety for an operator when handling toxic or radioactive materials. Group 35—59. Reg. No. 51,549.

Pat. 2,647,629. Flotation of Uranium. Patented Aug. 4, 1953. This invention relates to a process for the separation of uranium values from ores by an improved flotation procedure. The process is effected by using, in a conventional flotation procedure, a combination of flotation agents comprising a detergent and a soluble salt of a fatty acid or a rosin acid. The advantage of the process lies in improved recoveries of the uranium values and the ease of breaking the foam by conventional techniques. Group 34—21. Reg. No. 51,550.

Pat. 2,647,770. Sealed Telescopic Pipe Joint. Patented Aug. 4, 1953. This patent relates to sealed joints and metallic gaskets therefor, adapted to operate under extremely vigorous conditions of temperature and pressure. The device comprises a hollow ring gasket of a resilient metal and is formed so as to be non-symmetrical with respect to a median transverse plane. The invention is particularly adapted for use where the associated pipes are exposed to varying degrees of contraction and expansion in addition to vibrational stresses. Groups 33—93; 35—69. Reg. No. 51,551.

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 8, 1953

[VOL. 674. No. 2]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 623,222. The Wickes Corporation, Saginaw, Mich. Filed Jan. 4, 1952. (Sec. 2f as to "Mexican.")



The representation of a man is fanciful. The words "Trade-Mark" shown in the drawing are disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 54,647, 58,531, and others.

For Graphite.

Claims use since Aug. 21, 1950.

Ser. No. 636,212. Druid Hill Park Seed Corporation, also doing business as Cover Lawn Seed Company, Baltimore, Md. Filed Oct. 6, 1952.

CONGRESS PARK

For Grass Seeds.

Claims use since February 1941.

Ser. No. 636,213. Druid Hill Park Seed Corporation, also doing business as Cover Lawn Seed Company, Baltimore, Md. Filed Oct. 6, 1952.

WILLOW HILL

For Grass Seeds.

Claims use since Mar. 11, 1941.

Ser. No. 639,576. Lee Patten Seed Company, Jersey City, N. J. Filed Dec. 16, 1952.

Lawndale

For Lawn Seed Mixture.

Claims use since Mar. 14, 1940.

Ser. No. 639,577. Lee Patten Seed Company, Jersey City, N. J. Filed Dec. 16, 1952.

PATCO ALL PURPOSE

The words "All" and "Purpose" as shown in the drawing containing the phrase "Patco All Purpose" are disclaimed apart from the mark as shown in the drawing. Applicant claims ownership of Registration No. 565,323.

For Lawn Seed Mixture.

Claims use since Mar. 14, 1940.

Ser. No. 639,579. Lee Patten Seed Company, Jersey City, N. J. Filed Dec. 16, 1952.

Sunnyview

For Lawn Seed Mixture.

Claims use since Mar. 14, 1940.

Ser. No. 639,580. Lee Patten Seed Company, Jersey City, N. J. Filed Dec. 16, 1952.

Town Park

For Lawn Seed Mixture.

Claims use since Mar. 14, 1940.

Ser. No. 641,851. Limestone Products Corporation of America, Newton, N. J. Filed Feb. 6, 1953.

INDUSTRIAL 0853 CALCITE

No claim is made of an exclusive right to the words "Industrial" or "Calcite" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 262,474, 263,924, and others.

For Finely Granulated Calcite Limestone.

Claims use since October 1952.

Ser. No. 643,375. Mary P. Rogers, Hilo, Territory of Hawaii. Filed Mar. 9, 1953.

Majesty

For Gardenia Plants.
Claims use since Feb. 10, 1953.

Ser. No. 643,415. The Ferro Corporation, Cleveland, Ohio. Filed Mar. 10, 1953.

UNIFORMAT

For Glass Fiber Matted Sheet Materials.
Claims use since Dec. 8, 1952.

CLASS 2

RECEPTACLES

Ser. No. 632,962. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey. Filed July 23, 1952. (Sec. 2f.)

GERRARD

Applicant claims ownership of Registration No. 388,951.
For Metal Reel-Like Containers for Holding and Dispensing Steel Strapping.
Claims use since Aug. 1, 1917.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 643,362. Peck & Peck, New York, N. Y. Filed Mar. 9, 1953.



Applicant makes no claim to any exclusive right to the use of fabrics in the design shown on the drawing. Applicant claims ownership of Registration No. 562,983.
For Handbags and Wallets; All Made of Materials Other Than the Material of the Pattern Shown in the Drawing.
Claims use since 1938.

Ser. No. 643,902. G. R. Godfrey Company, Gardnes, Mass. Filed Mar. 19, 1953.

Princette

For Pocketbooks, Purses, and Wallets.
Claims use since Feb. 18, 1953.

Ser. No. 644,156. Associated Plastics Company, Inc., New York, N. Y. Filed Mar. 25, 1953.

Gilli Originals

Applicant disclaims any exclusive right to use the word "Originals," apart from the mark as it appears in the drawing.
For Ladies' Handbags.
Claims use since Jan. 1, 1951.

Ser. No. 644,157. Associated Plastics Company, Inc., New York, N. Y. Filed Mar. 25, 1953.

Gilli Originals

Applicant disclaims any exclusive right to use the word "Originals," apart from the mark as it appears in the drawing.
For Ladies' Handbags.
Claims use since Jan. 1, 1951.

Ser. No. 644,325. Henry L. Kotkins, doing business as Skyway Luggage Company, Seattle, Wash. Filed Mar. 27, 1953.

Fl-Air

For Men's and Women's Hand Luggage.
Claims use since Dec. 22, 1952.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 540,402. Mildred A. Freeman, Denver, Colo., executrix of the estate of Edwin M. Freeman, deceased. Filed Nov. 7, 1947.

PORCELAINIZE

Applicant claims ownership of Registration No. 356,353.
For Automobile Cleaner, Polish, and Finish, the Latter a Protector for the Polish.
Claims use since 1936.

Ser. No. 634,134. Behr-Manning Corporation, Troy, N. Y. Filed Aug. 19, 1952.

LIGHTNING

Applicant claims ownership of Registrations Nos. 214,079 and 300,065.
For Flexible and Inflexible Abrasives.
Claims use since Mar. 1, 1922.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 637,590. Innis, Speiden & Co., Inc., New York, N. Y., assignee of International Minerals & Chemical Corporation. Filed Nov. 4, 1952.

ISCO

Applicant claims ownership of Registrations Nos. 121,716, 156,307, and others.
For Algin.
Claims use since Jan. 9, 1951, on the mark as shown; the trade-mark "Isco" was first used in 1911.

Ser. No. 637,591. Innis, Speiden & Co., Inc., New York, N. Y., assignee of International Minerals & Chemical Corporation. Filed Nov. 4, 1952.

ISCO

Applicant claims ownership of Registrations Nos. 121,716, 156,307, and others.
For Algin.
Claims use since Jan. 9, 1951, on the mark as shown; the trade-mark "Isco" was first used in 1911.

Ser. No. 637,592. Innis, Speiden & Co., Inc., New York, N. Y., assignee of International Minerals & Chemical Corporation. Filed Nov. 4, 1952.

ISCO

Applicant claims ownership of Registrations Nos. 121,716, 156,307, and others.
For Lanolin, Beeswax, Candelilla Wax, Carnauba Wax, Esparto Wax, Molding Wax, Ouricury Wax, and Palm Wax.
Claims use since Jan. 9, 1951, on the mark as shown; the trade-mark "Isco" was first used in 1911.

Ser. No. 637,593. Innis, Speiden & Co., Inc., New York, N. Y., assignee of International Minerals & Chemical Corporation. Filed Nov. 4, 1952.

ISCO

Applicant claims ownership of Registrations Nos. 121,716, 156,207, and others.
For Lanolin, Beeswax, Candelilla Wax, Carnauba Wax, Esparto Wax, Molding Wax, Ouricury Wax, and Palm Wax.
Claims use since Jan. 9, 1951, on the mark as shown; the trade-mark "Isco" was first used in 1911.

Ser. No. 641,201. National Paper & Specialty Co. Inc., doing business as Napasco Chemical Co., Thibodaux, La. Filed Jan. 23, 1953.

NAPASCO

For Pine Oil Disinfectant, Isopropyl Alcohol Compound, and Mint Oil Disinfectant.
Claims use since September 1948.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 588,301. Illinois Clay Products Company, Joliet, Ill. Filed Nov. 25, 1949.

Chem-Brix

Applicant disclaims the term "Brix" apart from the mark as shown.
For Molded Refractories for Use in Furnaces and the Like.
Claims use since October 1949.

Ser. No. 632,250. Jackson and Church Company, Saginaw, Mich. Filed July 8, 1952.

CHEM

For Face Bricks.
Claims use since October 1948.

Ser. No. 635,650. Heatilator, Inc., Syracuse, N. Y. Filed Sept. 23, 1952.

HEATILATOR SERVICE-WAY

The words "Service-Way" are disclaimed apart from the mark.
For Sheet Metal Basement Entrance Units, Comprising a Frame and a Door Sold as a Complete Assembly.
Claims use since on or about Apr. 25, 1952.

Ser. No. 637,092. Tennison Brothers, Incorporated, Memphis, Tenn., and Texarkana, Ark. Filed Oct. 23, 1952.

TERMI-GUARD

No claim is made to the word "Guard" apart from the mark in its entirety. Applicant claims ownership of Registration No. 371,243.

For Sheet Metal Strips To Prevent the Entry of Termites in Building Constructions.

Claims use since Sept. 29, 1952.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 631,560. Miller Manufacturing Co., Inc., St. Paul, Minn. Filed June 21, 1952.

GIANT TROUGH-O-MATIC

The term "Trough" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 540,098.

For Automatic Poultry Fountains To Be Connected to a Water Feed Line and Valves Therefor.

Claims use since Oct. 21, 1951.

Ser. No. 633,131. Wm. R. Whittaker Co. Ltd., Los Angeles, Calif. Filed July 26, 1952.

Fluid-Bridge

The word "Fluid" is disclaimed apart from the mark as shown.

For Control Valves To Regulate the Flow of Gases or Liquids.

Claims use since June 25, 1952.

Ser. No. 633,980. Sidney L. Hechinger, trading as The Hechinger Company, Washington, D. C. Filed Aug. 15, 1952.

"HARRY HOMEOWNER"



For Door and Garage Door Hardware Other Than Locks; Cabinet, Chest, and Cupboard Hardware Other Than Locks; Nails; Screws; Bolts; Metallic and Non-Metallic Screening; Metal Fencing and Fence Fittings; Metal and Plastic Pipe Fittings; Metal Bathroom, Kitchen, and Laundry Plumbing Fixtures; and Bathroom Wall Fixtures.

Claims use since July 29, 1952.

Ser. No. 636,167. George W. Dahl Company, Inc., Bristol, R. I. Filed Oct. 4, 1952.

DEMI

For Globe Valves, Return Valves, Angle Valves, Universal Valves, Three Port Single Actuator Valves, Three Port Double Actuator Valves, Four Port Triple Actuator Valves, Angle Male Connections.

Claims use since March 1952.

Ser. No. 644,532. The Aro Equipment Corporation, Bryan, Ohio. Filed Apr. 1, 1953.

ARO

Applicant claims ownership of Registrations Nos. 284,656, 358,240, and others.

For Automotive and Industrial Lubricating Equipment—Namely, Tubing, Swivel Arms for Supporting Lubricant Carrying Hoses, Racks for Supporting Lubricant Equipment, Couplers and Connectors for Lubricant Hoses and Piping, Nozzles, Valve Controlled Nozzles, Lubricant Valves, Pressure Reducing Valves, Couplers and Connectors for Compressed Air Hoses, Drain Piping for Waste Oil, and Grease Reception Fittings.

Claims use since May 15, 1930; and since July 1, 1947, in the form shown.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 629,812. Ohio Ferro-Alloys Corporation, Canton, Ohio. Filed May 16, 1952.



The words "Tacoma," "Dependability," "Brand," "Quality," and "Service" are disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 327,777, 401,294, and 512,148.

For Ferro-Alloys—Namely, Ferro-Silicon, All Grades: Ferro-Chrome; Ferro-Manganese; Silico-Manganese; Silicon Metal; Ferro-Chrome-Silicon; Manganese Briquets; Chromium Briquets; Ferro-Chrome Briquets; Silico-Manganese Briquets; Silicon-Manganese-Aluminum-Iron Alloy; Boron-Silicon-Iron Alloy; and Calcium Silicon.

Claims use since Oct. 1, 1951.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 640,279. Inter-Coastal Paint Corporation, East St. Louis, Ill. Filed Jan. 2, 1953.

INCO

Applicant claims ownership of Registrations Nos. 313,756, 314,215, and 314,392.

For Ready-Mixed Paints, Varnishes, Paint Enamels, Japans, Stains, Paint Oils; Turpentine and Linseed Oil Substitutes for Use in Paint, Varnish, Enamel, and Similar Type Coating Compositions.

Claims use since Apr. 5, 1920.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 643,043. Philip Morris & Co. Ltd. Incorporated, New York, N. Y. Filed Mar. 3, 1953.



The picture shown in the drawing is that of John Roventini, whose consent is of record. Applicant claims ownership of Registrations Nos. 173,131, 378,545, and 517,660.

For Cigarettes.

Claims use since Jan. 21, 1953.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 626,684. The S. E. Massengill Company, Bristol, Tenn. Filed Mar. 19, 1952.

CALSEM

For Injectable Veterinary Preparation Indicated for Treating Conditions Requiring Calcium Therapy.

Claims use since Jan. 8, 1952.

Ser. No. 626,911. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia. Filed Mar. 22, 1952.

TOLPRIN

For Preparation for Producing Analgesia Accompanied by Relaxation.

Claims use since Feb. 21, 1952.

Ser. No. 627,236. Abbott Laboratories, North Chicago, Ill. Filed Mar. 29, 1952.

FUMIDIL

For Medicinal Preparation for the Treatment of Intestinal Amebiasis.

Claims use since Mar. 13, 1952.

Ser. No. 629,717. Bell and Thorne, Inc., Newark, N. J. Filed May 15, 1952.

BENOXENE

For Germicide.

Claims use since on or about Sept. 10, 1951.

Ser. No. 633,723. Edgar A. Ferguson, Jr., doing business as E. A. F. Research Developments, Brooklyn, N. Y. Filed Aug. 11, 1952.

DU-DOL

For Medicated Ointments and Soaps for the Treatment of Psoriasis, Eczema, and Other Skin Conditions.

Claims use since Jan. 2, 1952.

Ser. No. 637,715. Mathieson Chemical Corporation, Saltville, Va. Filed Nov. 6, 1952.

DISTRYCILLIN

Applicant claims ownership of Registration No. 563,862.

For Antibiotic Preparation.

Claims use since Oct. 3, 1952.

Ser. No. 638,795. Edgar A. Ferguson, Jr., Brooklyn, N. Y. Filed Dec. 1, 1952.

SWEET-CELL

Applicant disclaims the word "Sweet" apart from the mark as a whole.

For Appetite Satient Compositions in Tablet, Wafer, Chewing Gum, Liquid, and Powder Form.

Claims use since May 8, 1952.

Ser. No. 639,664. Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc., a corporation of New Jersey. Filed Dec. 17, 1952.

MIOZETS

For Lozenge or Troche, Particularly an Antibiotic Containing Lozenge or Troche for Use in Antibacterial Therapy.

Claims use since Oct. 30, 1952.

Ser. No. 640,480. The Upjohn Company, Kalamazoo, Mich. Filed Jan. 7, 1953.

Cortazote

Applicant claims ownership of Registration No. 562,218.

For Medicinal Preparation for the Treatment of Allergic Disorders.

Claims use since Oct. 10, 1952.

Ser. No. 640,484. The Upjohn Company, Kalamazoo, Mich. Filed Jan. 7, 1953.

Zymasyrup

Applicant claims ownership of Registrations Nos. 420,751, 435,566, and others.
For Medicinal Preparation for the Treatment of Vitamin and Nutritional Deficiencies.
Claims use since Oct. 9, 1952.

Ser. No. 642,957. Eli Lilly and Company, Indianapolis, Ind. Filed Mar. 2, 1953.

ILOTICINA

For Medicinal Preparation of Erythromycin, an Antibiotic Used in the Treatment of Bacterial Infections.
Claims use since Nov. 3, 1952.

Ser. No. 642,958. Eli Lilly and Company, Indianapolis, Ind. Filed Mar. 2, 1953.

ILOTYCINE

For Medicinal Preparation of Erythromycin, an Antibiotic Used in the Treatment of Bacterial Infections.
Claims use since Nov. 3, 1952.

Ser. No. 643,103. Edwin E. Kayser, doing business as Kayco, Santa Barbara, Calif. Filed Mar. 4, 1953.

VR's

For Organic Laxative.
Claims use since Jan. 17, 1953.

Ser. No. 643,122. Southern Chemical Foundation, Inc., Dallas, Tex. Filed Mar. 4, 1953.

JETTUP

For Vitamin Pills.
Claims use since Feb. 19, 1953.

Ser. No. 644,068. Schenley Laboratories, Inc., New York, N. Y. Filed Mar. 23, 1953.

CORTISCHEN

For Cortisone Acetate Compound for General Hormone Therapy.
Claims use since Feb. 24, 1953.

CLASS 19

VEHICLES

Ser. No. 613,366. Freightliner Corporation, Portland, Oreg. Filed May 1, 1951.

FREIGHTLINER

The drawing is lined for the color red, but color is not claimed as a feature of the trade-mark.
For Truck Trailers and Motor Trucks.
Claims use since Jan. 10, 1941.

Ser. No. 644,016. The De Havilland Aircraft Company Limited, Hatfield, England. Filed Mar. 23, 1953.

HERON

Priority under Sec. 44(d). British application filed Dec. 1, 1952, Registration No. B712,778, dated Dec. 1, 1952.
For Airplanes and Structural Parts Thereof.

Ser. No. 644,017. The De Havilland Aircraft Company Limited, Hatfield, England. Filed Mar. 23, 1953.

MOTH

Applicant claims ownership of British Registration No. 475,951, dated Dec. 15, 1926.
For Airplanes and Structural Parts Thereof.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 633,196. Congoleum-Nairn, Inc., Kearny, N. J. Filed July 29, 1952.



The stippling shown in the drawing is for shading purposes only. Applicant claims ownership of Registrations Nos. 123,332, 125,980, and others.
For Linoleum, Felt Base, and Similar Flexible Floor and Wall Coverings Having a Wear Resistant Composition, Coated or Printed Surfaces.
Claims use since Jan. 21, 1952.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 628,937. General Motors Corporation, Detroit, Mich. Filed Apr. 30, 1952.



The drawing is stippled for shading purposes only. Applicant claims ownership of Registration No. 193,254.
For Electric Lamps and Switches.
Claims use since Apr. 15, 1952.

Ser. No. 629,135. Zenith Radio Corporation, Chicago, Ill. Filed May 2, 1952.

Phonevision

Applicant claims ownership of Registrations Nos. 542,143 and 382,252.
For Radio and Television Transmitting and Receiving Apparatus and Parts Thereof.
Claims use since June 13, 1947.

Ser. No. 629,727. Electro Manufacturing Corporation, Chicago, Ill. Filed May 15, 1952.

SURF-A-LITE

Applicant makes no claim to the word "Lite" alone.
For Fluorescent Lighting Units.
Claims use since Jan. 1, 1932.

Ser. No. 632,844. F. A. Luthy Co., Jackson, Mich. Filed July 21, 1952. (Sec. 2f.)

Flint

Applicant claims ownership of Registration No. 325,212.
For Spark Plugs for Internal Combustion Engines.
Claims use since on or about Mar. 1, 1933.

Ser. No. 633,302. Day-Brite Lighting, Inc., St. Louis, Mo. Filed July 31, 1952.

MOBILEX

For Fluorescent Lighting Fixtures and Parts Thereof.
Claims use since May 28, 1952.

Ser. No. 635,124. Dictaphone Corporation, Bridgeport, Conn. Filed Sept. 11, 1952.

DICTAVOX

Applicant claims ownership of Registrations Nos. 198,072, 217,880, and others.
For Electrically-Operated Microphones and Loudspeakers for Use With Sound Recording and Reproducing Machines—Namely, Dictating Machines and Transcribing Machines.
Claims use since July 8, 1952.

Ser. No. 636,857. Minnesota Mining and Manufacturing Company, St. Paul, Minn. Filed Oct. 18, 1952.

SCOTCHKOTE

For Adherent Coating Compound Useful for Application to Electrical Wires, Cable Splices, Etc., To Provide a Protective Skin Thereon.
Claims use since at least as early as Apr. 10, 1952.

Ser. No. 640,503. Economy Fuse and Manufacturing Co., Chicago, Ill. Filed Jan. 8, 1953.

ECON

Applicant claims ownership of Registrations Nos. 101,568, 180,677, and 444,020.
For Electrical Fuses.
Claims use since Nov. 10, 1952.

Ser. No. 641,213. F. Smith & Co. (Whitworth) Limited, Rochdale, England. Filed Jan. 23, 1953.

Aubojig

Priority under Sec. 44(d). British application filed Dec. 5, 1952, Registration No. 712,918, dated Dec. 5, 1952.
For Electrical Driving Units for Dyeing Machines.
Claims use since Jan. 1, 1946; and use in commerce between foreign nations and the United States since Sept. 1, 1948.

Ser. No. 641,572. The Quincy Stove Manufacturing Company, Quincy, Ill. Filed Jan. 30, 1953.

Monogram

Applicant claims ownership of Registration No. 297,684.
For Portable Electric Ranges, Electric Range Units and Parts Thereof, and Portable Ranges for Both Cooking and Heating Purposes and Heated by Electricity.
Claims use since Dec. 15, 1948.

Ser. No. 643,356. Roger M. Nordby, Evanston, Ill. Filed Mar. 9, 1953.

NORDIC

For Radios.
Claims use since May 1, 1952.

Ser. No. 643,728. Siemens-Schuckertwerke Aktiengesellschaft, Erlangen and Berlin-Siemensstadt, Germany, and elsewhere. Filed Mar. 16, 1953.

SS

Applicant claims ownership of German Registration No. 326,846, dated Jan. 13, 1925; and United States Registration No. 235,926.

For Electrical Machines—Namely, Dynamos, Motors, Transformers, and Accessories, Comprising Starters, Choke Coils, Rectifiers, Resistances; Electro-Technical Instruments and Appliances—Namely, Apparatus for Wire and Wireless Telegraphy and Telephony Comprising Telephone Central Stations and Arrangements for Automatic, Semi-automatic, and Hand Operation; Wall and Table Stations for Central-Battery Operation, Wall and Table Stations for Call by Inductors, Line Selectors for Single and Double Lines, Central Change-Over Switches With Lamp Calls and Clearing Indicators, Central Change-Over Switches With Drop Relay Call and Clearing Indicators, Telephones for Selective Individual Calls, Portable Telephones, Waterproof Telephones, Telephones With Protection Against High Voltages, Loud Speaking Telephones, Morse Telegraph Apparatus, High-Speed Morse Telegraph Apparatus, Hughes Telegraph Apparatus, Type-Printing Telegraph Apparatus, Distant Printers, Stock Tickers, Siemens High-Speed Telegraph Apparatus, Keyboard High Speed Telegraph Apparatus, Pendulum Telegraph Apparatus, Rotating-Coil High-Speed Telegraph, Telegraph Central Change-Over Switch; Radio Appliances Comprising Detector and Tube Receivers, Amplifiers for High and Low Frequency Currents, Loud Speakers, Head Telephones, Detector Tubes and Crystal Detectors, Coils, and Condensers; Ignition Systems for Internal-Combustion Engines and Parts Thereof Comprising Magnetos; Electrical Safety Installations, in Particular for Railroad and Mine Operation—Namely, Lightning Arresters, Police and Fire-Alarm Systems, Long-Distance Indicator Installations Comprising Acoustic Indicators; Insulating, Conductor, and Installation Material for Outdoor and Subterranean Conductors—Namely, Cables, Pupin Coils, Conductor Tubes, Tubular Conductors, Conductors Surrounded by Spun Fabric and Impregnated With Insulating Material, Contacts, Fuses, Switches, Bells, Distributing and Switch Panels of Insulating Material, Insulators, Brush and Push Contacts, Microphone Carbons, Carbon Electrodes for Electrolytical Purposes, Battery Elements, Storage Batteries, Metal Masts for Carrying and Tensioning Conductors; Electrical Installations—Namely, Incandescent Lamps, Arc Lamps, Arc-Lamp Electrodes, Searchlights, Electric Flares, Road Lighting for Land and Water Ways, Electric Installations for Theaters Comprising Stage Reflectors, Stage Regulators, and Stage-Setting Devices; Electric Heating Devices—Namely, Space-Heating Elements, Steam Boilers, Heating and Cooking Plates, Soldering Irons, Water Heaters, Flat-Irons, Devices for Electric Singeing, Devices for Electric Burning, Devices for Electric Embossing; Arrangements for Liquefying Metals, Fats, and Impregnating Materials, Electrical Ovens for Industrial Purposes Comprising Gluing, Hardening, and Melting Ovens, Lacquering Ovens, and Rotating Tube Ovens; Electrodes for Electric Ovens; Electric Cooking Arrangements—Namely, Cooking Vessels, Stoves for Conserving Fodder; Electric Drying Arrangements—Namely, Hair-Drying Apparatus, Drying Ovens; Electrical Installations for Separating Impurities and Foreign Substances From Gases and Liquids—Namely, Electrofilters; Electrical Machinery—Namely, Electric Agricultural Machines, Machine Tools, Mining Machinery; Domestic Garden and Household Devices, in Particular Machines for Dust Removal From Carpets and Furniture; and Scraping Machines.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 605,158. The Gray Manufacturing Company, Hartford, Conn. Filed Oct. 19, 1950.

Gray VOICEMASTER

The word "Gray" is disclaimed apart from the mark as shown.

For Record Resurfacing Machines Used Particularly To Recondition the Surfaces of Phonograph Records.

Claims use since Oct. 15, 1949.

Ser. No. 616,828. Mission Manufacturing Company, Houston, Tex. Filed July 23, 1951.

MISSION

For Centrifugal Pumps and Parts Thereof and for Reciprocating Pumps and Parts Thereof—Namely, Pump Valves, Valve Bushings, Valve Inserts, Valve Seats, Valve Springs, Pump Pistons, Piston Rods and Pump Cylinder Liners, and for Pipe Holding Well Slips, Well Swabs, and Plug Valves.

Claims use since Oct. 2, 1929.

Ser. No. 616,829. Mission Manufacturing Company, Houston, Tex. Filed July 23, 1951.

MISSION

For Centrifugal Pumps and Parts Thereof and for Reciprocating Pumps and Parts Thereof—Namely, Pump Valves, Valve Bushings, Valve Inserts, Valve Seats, Valve Springs, Pump Pistons, Piston Rods and Pump Cylinder Liners, and for Pipe Holding Well Slips, Well Swabs, and Plug Valves.

Claims use since Oct. 2, 1929.

Ser. No. 618,935. Mission Manufacturing Company, Houston, Tex. Filed Sept. 18, 1951.

MISALOY

For Centrifugal Pumps and Parts Thereof and for Reciprocating Pumps and Parts Thereof—Namely, Pump Valves, Valve Bushings, Valve Inserts, Valve Seats, Valve Springs, Pump Pistons, Piston Rods and Pump Cylinder Liners, and for Pipe Holding Well Slips, Well Swabs, and Plug Valves.

Claims use since June 1, 1948.

Ser. No. 618,940. V. J. Reeve & Son, Tracy, Calif. Filed Sept. 18, 1951.

BANJO

For Automatic or Continuous Milking Machines and Parts Thereof.

Claims use since May 11, 1950.

Ser. No. 620,997. Brisson Brothers, Norway, Mich., assignor to Lo Da L, Inc., Norway, Mich. Filed Nov. 8, 1951.

LoDaL

For Loading Attachment for Automotive Trucks Including a Combination Scraping, Hoisting, and Dumping Bucket.

Claims use since June 1, 1949.

Ser. No. 625,065. The Fawick Airflex Company, Inc., Cleveland, Ohio, assignor to Federal Fawick Corporation, a corporation of Michigan. Filed Feb. 16, 1952. (Sec. 2f.)

ROTORSEAL

For Rotary Fluid-Couplings for Use With Machinery.

Claims use since about November 1941.

Ser. No. 633,023. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey. Filed July 24, 1952.

sGs

For Flat Band Steel Strapping Dispensing Units Comprising a Framework Containing Rollers for Supporting a Coil of Such Strapping and Mechanical Means for Revolving the Coil and Paying Out Strapping as Required.

Claims use since Mar. 1, 1952.

Ser. No. 635,006. Timber Engineering Company, Washington, D. C. Filed Sept. 8, 1952.

TECO WEDGE-FIT

No claim is made to exclusive right in the word "Wedge-Fit" apart from the mark as shown.

For Metal Grooving Tools for the Application of Timber Connectors and Kits Comprising Such Tools and Timber Connectors.

Claims use since Aug. 19, 1952.

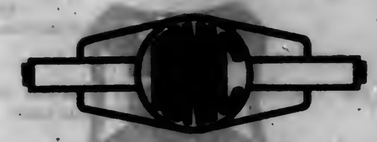
Ser. No. 636,678. Boonton Molding Company, Boonton, N. J. Filed Oct. 16, 1952.

Laureline

For Molded Plastic Forks and Spoons, More Specifically Salad Servers.

Claims use since July 2, 1952.

Ser. No. 639,145. John J. Sedlacsik, trading as Scientific Electric, Garfield, N. J. Filed Dec. 6, 1952.



Without waiving any common-law rights it may have thereto, applicant disclaims exclusive rights to the overall representation to the metal name plate on which the trade-mark appears apart from the mark as shown in the drawing.

For Pneumatic Sprayers for Atomizing and Spraying Paint.

Claims use since Sept. 4, 1952.

Ser. No. 640,946. Fred Mac Overland, doing business as Overland Import Company, Los Angeles, Calif. Filed Jan. 19, 1953.

Fisherman's Friend

The term "Fisherman's" is disclaimed apart from the mark as shown.

For Combination Hand Tool Consisting of Knife Blade, Fish Descaler, Corkscrew, Plier, Etc., for Use on Camping and Fishing Trips.

Claims use since Dec. 20, 1951.

Ser. No. 644,449. Perrish Steel Products, Inc., Los Angeles, Calif. Filed Mar. 30, 1953.

AREX

For Milling Machines.

Claims use since Oct. 10, 1951.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 581,739. Shaw-Nelson Co., Chicago, Ill. Filed July 9, 1949.

HANDY SANDY

The word "Sandy" is disclaimed apart from the mark as shown.

For Timers of the Hour-Glass Type.

Claims use since June 30, 1949.

Ser. No. 501,643. Stokes Molded Products, Inc., Trenton, N. J. Filed Jan. 28, 1950.



Applicant claims ownership of Registrations Nos. 292,057 and 293,884.

For Measuring Dippers and Water Meter Parts—Namely, Discs, Half Balls, Propellers, and Pistons, Said Respective Parts Being Produced Especially for Use in Such Meters and, When Assembled, Forming the Oscillating Units for Such Meters.

Claims use since Mar. 12, 1949.

Ser. No. 594,790. Imperial Chemical Industries Limited, London, England. Filed Mar. 28, 1950.



Applicant claims ownership of British Registration No. 507,724, dated Nov. 12, 1929.

For Water Purity and Hardness Testing Apparatus; Flowmeters; Lenses, Cameras, Projectors, Telescopes, Microscopes, Bioscopes, Epidiascopes, a Unit Comprising a System of Lenses and Mirrors To Be Built Into a Television Set To Enable Viewers To See the Image on the Cathode Ray Tube, and Television Screens.

Ser. No. 598,835. Rectaflex Societa Per Azioni, Rome, Italy, assignee, by mesne assignments, from Telemaco Corsi and Emilio Palamidessi. Filed June 9, 1950.

RECTAFLEX

Applicant claims ownership of Italian Registration No. 83,904, dated Dec. 4, 1948.

For Cameras and Camera Parts and Attachments—Namely, Objective Mounts, Extension Tubes, Extension Rings, Photomicrographic Adaptors, Telephotographic Adaptors, Camera Couplers, Lens Shades, View Finders, Filters, Color Filters, Lenses, Color Filter Lenses, Light Filter Lenses, Lens Covers, Range Finders, Extension Bellows, Enlargers, Enlarger Stands, Enlarger Tripods, Swivel Adaptors, Tripod Offset Adaptors, Cartridge Film Holders, Release Cables, and Casings.

Ser. No. 612,085. Precision-Cosmet Company, Inc., Minneapolis, Minn. Filed Mar. 31, 1951.

VISIO-LITE

The word "Lite" is disclaimed apart from the mark as shown.

For Lenses for Eye Glasses and Spectacles, Eye Glasses, Spectacles, and Glass and Plastic Shields for Application Before Lenses of Television Sets, Said Lenses and Shields Having Filtering Media Therein.

Claims use since Jan. 29, 1951.

Ser. No. 613,989. Hellige, Inc., Long Island City, N. Y. Filed May 17, 1951.

Chromatron

For Photoelectric Colorimeter and Density Comparison and Measuring Instrument for Ascertaining Color or Optical Density of Liquids or Gases.

Claims use since Apr. 30, 1951.

Ser. No. 613,990. Hellige, Inc., Long Island City, N. Y. Filed May 17, 1951.

ClinicCol

For Photoelectric Color and Density Measuring Instrument for Clinical Use in Ascertaining Color or Optical Density of Liquids or Gases.

Claims use since Apr. 30, 1951.

Ser. No. 616,007. Aktiebolaget Vibro-Verken, Stockholm, Sweden. Filed July 3, 1951.



For Instruments for Measuring the Physical Properties of Fresh Concrete, Such as Its Consistency, Workability, Volume Weight, and Air Content; Measuring Instruments for Testing the Strength and Deformation Properties of Hardened Concrete, and Measuring Instruments for Testing the Physical Properties, Such as Tensile Strength, Breaking Strength, Hardness, and Density of Concrete Articles and Products, Such as Beams, Tiles, and Slabs.

Claims use since Apr. 29, 1947; and use in commerce between foreign nations and the United States since Apr. 29, 1947.

Ser. No. 616,235. George A. Philbrick Researches Inc., Boston, Mass. Filed July 11, 1951.

GAP/R

For Measuring and Analyzing Apparatus—Namely, Analog Computors, Analog Components, and Accessories Therefor—Namely, Amplifiers, Power Supplies, Connectors, Cabinets, Racks, and Parts Sold as a Unit.

Claims use since Feb. 3, 1949.

Ser. No. 618,911. Bowser, Inc., Fort Wayne, Ind. Filed Sept. 18, 1951.

Siamese
Rol-Way

For Measuring and Dispensing Apparatus for Gasoline or Other Liquids.

Claims use since Aug. 30, 1951.

Ser. No. 620,541. Illinois Testing Laboratories, Inc., Chicago, Ill. Filed Oct. 27, 1951.

PYROMATIC

For Electrical Temperature Measuring Instruments and Parts Thereof.

Claims use since Sept. 20, 1951.

Ser. No. 620,543. Illinois Testing Laboratories, Inc., Chicago, Ill. Filed Oct. 27, 1951.

PYROTROLLER

For Electrical Temperature Measuring Instruments and Parts Thereof.

Claims use since Sept. 18, 1951.

Ser. No. 620,544. Illinois Testing Laboratories, Inc., Chicago, Ill. Filed Oct. 27, 1951.

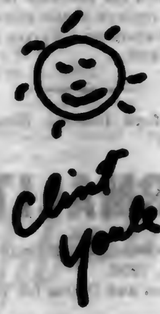
VELOMETER JR.

No exclusive claim is made to the word "Jr." alone. Applicant claims ownership of Registration No. 340,868.

For Flow Meters for Measuring the Rate of Flow of Air and Other Gases.

Claims use since Jan. 26, 1948.

Ser. No. 623,929. Clint Youle, Wheaton, Ill. Filed Jan. 22, 1952.



For Weather Thermometers.

Claims use since Sept. 1, 1951.

Ser. No. 626,184. Westcott Rule Company, Inc., Seneca Falls, N. Y. Filed Mar. 8, 1952.

Westcott

For Rulers.

Claims use since Dec. 15, 1890.

Ser. No. 626,700. Precision International, Inc., New York, N. Y. Filed Mar. 19, 1952.



For Drawing Instruments and Drawing Articles for Engineers and Architects—Namely, Slide Rules, Conversion Rules, Triangles, Measuring Rules, Scales and Gauges for Measuring Compasses, Stenciling Plates, Rulers, T-Squares.

Claims use since Jan. 14, 1952.

Ser. No. 626,730. Da-Lite Screen Company, Inc., Chicago, Ill. Filed Mar. 20, 1952.

Comet

For Motion Picture Screens.

Claims use since March 1950.

Ser. No. 628,305. Shallcross Manufacturing Company, Collingdale, Pa. Filed Apr. 18, 1952.

SMCO

For Electrical Measuring and Test Instruments—Namely, Electrical Bridges, Meters, Analyzers, and Attenuators.

Claims use since July 1951.

Ser. No. 633,060. Scopicon, Inc., New York, N. Y. Filed July 25, 1952.

Scopicon

Applicant claims ownership of Registration No. 504,739.

For Microscope Lamps and Auxiliary Devices Used Therewith—Namely, Voltage Controllers and Color Temperature Meters.

Claims use since on or about Oct. 1, 1950.

Ser. No. 633,683. Schwitzer-Cummins Company, Indianapolis, Ind. Filed Aug. 9, 1952.

THERMATIC

For Thermostatically Controlled Disengageable Cooling Fan Drives for Internal Combustion Engines and Thermostatically Controlled Hydraulic Valves.

Claims use since Aug. 27, 1951.

Ser. No. 634,767. United States Safety Service Co., Kansas City, Mo. Filed Sept. 12, 1952.

SAF-I-SHIELD

The term "Shield" is disclaimed apart from the mark shown in the drawing. Applicant claims ownership of Registration No. 557,604.

For Goggles and Face Shields.

Claims use since during the fall of 1942.

Ser. No. 634,892. Duroloid Optical Company, Providence, R. I. Filed Sept. 5, 1952.

TRIMLINE

For Optical Frames.

Claims use since July 18, 1952.

Ser. No. 637,119. Elsé Inc., Cincinnati, Ohio. Filed Oct. 24, 1952.

Elsé

For Dress Patterns.
Claims use since June 8, 1951.

Ser. No. 638,662. Radiant Manufacturing Corporation, Chicago, Ill. Filed Nov. 26, 1952.

TENSI LOCK

The word "Lock" is disclaimed apart from the mark as shown.
For Light Projection Picture Screen Locking Mechanism for Tensioning Screen Fabric.
Claims use since on or about Nov. 4, 1952.

Ser. No. 639,205. Marian E. Bourns, doing business as Bourns Laboratories, Riverside, Calif. Filed Dec. 9, 1952.

TRIMPOT

For Potentiometers.
Claims use since Sept. 24, 1952.

Ser. No. 639,309. Malcolm Bailey, Sr., Tampa, Fla. Filed Dec. 11, 1952.

HYDRA-LUBE TUNE-O-METER

The words "Lube" and "Meter" are disclaimed apart from the mark as shown in the drawing.
For Mechanically Operable Attachment for Internal Combustion Engine Carburetors for Detecting and Alleviating Sticking Valves and Piston Rings Consisting of a Compartmentised Container, Vacuum Gauge, and Valves for Selectively Introducing Fluid Solvent so as To Remove Carbon and Gum Deposits From the Engine.
Claims use since Nov. 26, 1951.

Ser. No. 642,392. Dudley Pictures Corporation, Beverly Hills, Calif. Filed Feb. 18, 1953.

ROBOT MAN

For Series of Motion Picture Photoplays.
Claims use since Jan. 5, 1953.

Ser. No. 642,460. Brown Electro-Measurement Corporation, Portland, Oreg. Filed Feb. 19, 1953.

DEKAPOT

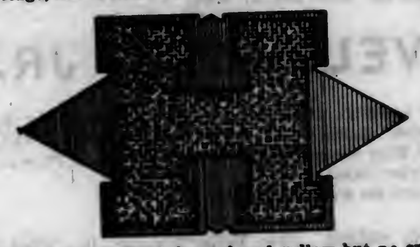
For Decade Potentiometers.
Claims use since Sept. 22, 1950.

Ser. No. 642,461. Brown Electro-Measurement Corporation, Portland, Oreg. Filed Feb. 19, 1953.

DEKASTAT

For Decade Rheostats.
Claims use since Dec. 31, 1952.

Ser. No. 642,647. H. D. Hudson Manufacturing Company, Chicago, Ill. Filed Feb. 24, 1953.



The drawing is lined for red and yellow but no specific color is claimed as a feature of the mark.
For Thermostat Wafers and Valves and Thermometers.
Claims use since 1925.

Ser. No. 642,653. Ilford, Limited, Ilford, Essex, England. Filed Feb. 24, 1953.

FORMALITH

Applicant claims ownership of British Registration No. 690,393, dated July 4, 1950.
For Sensitised Films and Plates for Use in Photography.

Ser. No. 642,740. Duplomat Corporation of America, Washington, D. C. Filed Feb. 25, 1953.

DUPLOMAT

For Combined Exposing and Developing Machine for Producing Photocopies.
Claims use since July 15, 1952.

Ser. No. 642,841. Helena Rubinstein, Inc., New York, N. Y. Filed Feb. 26, 1953.

HELENA RUBINSTEIN

For Eye-Glass Cases and Eye-Glass Holders Consisting of a Case in Which the Eye Glasses May Be Inserted, the Case Being Adapted To Be Fastened to a Purse, Belt or Other Article of Attire Worn by the User.
Claims use since 1928.

Ser. No. 642,943. Camera Specialty Co. Inc., New York, N. Y. Filed Mar. 2, 1953.

Peronar

For Lenses and Lense Mounts.
Claims use since Dec. 20, 1952.

Ser. No. 643,119. S. I. C. M. U. Societá Italiana Commercio Macchine per Ufficio S. P. A., Milan, Italy. Filed Mar. 4, 1953.

NUMERIA

Applicant claims ownership of Italian Registration No. 79,590, dated May 13, 1947.
For Adding Machines, Calculating Machines, Accounting Machines.

Ser. No. 643,123. Technicolor Motion Picture Corporation, Hollywood, Calif. Filed Mar. 4, 1953.

TECHNIRAMA

For Motion Picture Film.
Claims use since Feb. 2, 1953.

Ser. No. 643,126. Titmus Optical Company, Inc., Petersburg, Va. Filed Mar. 4, 1953.

Cabaña

For Ophthalmic Lenses and Sunglasses.
Claims use since Feb. 12, 1953.

Ser. No. 643,202. American Machine and Metals, Inc., New York, N. Y., and Sellersville, Pa. Filed Mar. 6, 1953.



Applicant claims ownership of Registrations Nos. 86,747 and 290,298.
For Gauges, Compasses, Thermometers, Ammeters, Voltmeters, and Parts Thereof.
Claims use since May 1910.

Ser. No. 643,284. Brunsviga Maschinenwerke Aktiengesellschaft, Braunschweig, Germany. Filed Mar. 9, 1953.



Applicant claims ownership of German Registration No. 422,399, dated Aug. 14, 1930; and United States Registration No. 283,586.
For Calculating and Adding Machines and Cash Registers.

Ser. No. 644,224. Colwell Litho Products Inc., Minneapolis, Minn. Filed Mar. 26, 1953.

Colight

For Photographic Exposure Frames for Making Photographic Contact Prints Through Negatives and for Self-Contained Illuminated Magnifier Units.
Claims use since Mar. 25, 1953 on the mark as shown; and since Jan. 5, 1951 in a different form.

Ser. No. 644,467. Technicolor Motion Picture Corporation, Hollywood, Calif. Filed Mar. 30, 1953.

TECHNIVISION

For Motion Picture Film.
Claims use since Feb. 27, 1953.

Ser. No. 644,587. Agfa Camera Werk Munchen, Munich, Germany. Filed Apr. 2, 1953.

Rondinax

Applicant claims ownership of German Registration No. 482,697, dated Feb. 11, 1936.
For Daylight Developing Tank.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 631,332. Weco Products Company, Chicago, Ill. Filed June 17, 1952. (Sec. 2f.)

Gainsborough

Applicant claims ownership of Registrations Nos. 144,295 and 148,960.
For Powder Puffs.
Claims use since Feb. 28, 1922.

Ser. No. 645,417. Hygiene Research, Inc., New York, N. Y. Filed Apr. 16, 1953.

SEEOLOTH

For Chemically Treated Polishing Cloths.
Claims use since Nov. 10, 1950.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 643,867. U. S. Stationery Co., New York, N. Y. Filed Mar. 18, 1953.

FEATHER-GLIDE

For Office Filing Cabinets.
Claims use since Oct. 15, 1952.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 545,518. Niagara Blower Company, Buffalo, N. Y. Filed Dec. 26, 1947. (Sec. 2f.)

NIAGARA

Applicant claims ownership of Registrations Nos. 341,839 and 400,014.

For Inter and After Coolers for Air or Gas Compressors; Engine Jacket Water Coolers; Dehumidifiers Which Contact the Gas To Be Dried With a Hygroscopic Liquid; Concentrators for Restoring the Concentration of Aqueous Anti-Freeze or Hygroscopic Solutions and in Which the Solution Is Heated to a Degree Either To Volatilize the Water as Steam or To Evaporate the Water Into a Passing Stream of Fresh Air; Industrial Evaporative Coolers and Condensers for Liquifying Gases and Which Have Coils Over Which Streams of Water and Air Are Passed; Smokehouse Conditioning Units Which Maintain the Temperature, Purity, Humidity, and Smoke Concentration of the Atmosphere Within the Smokehouse at Desired Levels; Condensers Which Have Coils in Which Gases Are Liquified and Over Which Air Is Propelled by Motor Operated Blowers.
Claims use since 1902.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 638,852. M. Hohner, Inc., New York, N. Y. Filed Dec. 2, 1952.

EL CENTENARIO

The mark "El Centenario" in English means "The Centennial."
For Harmonicas.
Claims use since January 1922.

Ser. No. 639,755. Henry Hancock, trading as Rieger Organs, New York, N. Y. Filed Dec. 19, 1952. (Sec. 2f.)

RIEGER

For Reed and Pipe Organs.
Claims use since 1910.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 581,260. Halo-Star Corporation, Oak Park, Ill. Filed June 29, 1949.

Halo-Star

For Personal Photographs.
Claims use since Sept. 22, 1948.

Ser. No. 637,126. Harlis, Incorporated, Miami, Fla. Filed Oct. 24, 1952.

This is a
BALLOON BOOK

No claim is made to any part of the wording or notations except "Balloon" apart from the mark shown.
For Books Whether Illustrated or Not.
Claims use since Feb. 1, 1952.

Ser. No. 641,297. Helms Bakeries, Los Angeles, Calif. Filed Jan. 26, 1953.

Menu-Randoms

For Publication Containing a Series of Recipes Published Approximately Monthly.
Claims use since June 1951.

Ser. No. 645,214. Northwest Publications, Inc., St. Paul, Minn. Filed Apr. 2, 1953. (Sec. 2f.)

ST. PAUL SHOPPING NEWS
AND THE ST. PAUL HOUSING AND SHOPPING GUIDE

For Publication Published Daily.
Claims use since Nov. 5, 1947.

Ser. No. 645,240. Fruit Growers Express Company, Washington, D. C. Filed Apr. 14, 1953.

TEAMWORK

For House Magazine Issued and Distributed From Time to Time.
Claims use since Dec. 21, 1949.

Ser. No. 645,242. Graphic Publishing Co., Inc., Hasbrouck Heights, N. J. Filed Apr. 14, 1953.

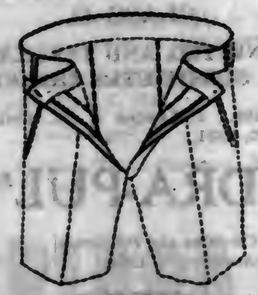
ACORN BOOKS

No claim is made to the word "Books" apart from the mark shown in the drawing.
For Books.
Claims use since Mar. 24, 1953.

CLASS 39

CLOTHING

Ser. No. 606,495. Day's Tailor-D Clothing, Inc., Tacoma, Wash. Filed Jan. 8, 1951.



The mark comprises a plurality of twisted strands of red and blue threads running with the warp on the back of the material forming the trousers and jackets, spaced at intervals of about eight inches, and disposed on the inside surface of the said trousers and jackets. Applicant claims ownership of Registration No. 396,013.
For Trousers and Jackets More Particularly Suited for Men's Wear.
Claims use since Nov. 6, 1941.

Ser. No. 627,006. Sharpe Manufacturing Company, Inc., Minneapolis, Minn. Filed Mar. 26, 1952.

SHARPÉES

For Sports and Play Garments—Namely, Jeans, Slacks, Skirts, Shorts, Pedal Pushers, and Jackets.
Claims use since Nov. 20, 1950.

Ser. No. 628,951. Jeremiah G. Menihan, Rochester, N. Y. Filed Apr. 30, 1952.

ANTI PRO

For Women's Shoes.
Claims use since February 1936.

Ser. No. 631,447. Texas Harvest Hat Company, Laredo, Tex. Filed June 19, 1952.

The Sailorman

For Men's, Ladies', and Children's Hats.
Claims use since May 9, 1952.

Ser. No. 631,448. Texas Harvest Hat Company, Laredo, Tex. Filed June 19, 1952.

The Cowpoke

For Men's, Ladies', and Children's Hats.
Claims use since May 9, 1952.

Ser. No. 634,280. Barbara Jean's Beauty Sheer Hosiery, Inc., Penndel, Pa. Filed Aug. 22, 1952.

BARBARA JEAN'S
Beauty Sheer

No claim is made in this application to the words "Beauty Sheer" or to the representation of the goods, apart from the mark as shown. Applicant claims ownership of Registration No. 557,390.
For Women's Hosiery and Undergarments—Namely, Panties and Slips.
Claims use since January 1945.

Ser. No. 635,132. Good Luck Glove Company, Carbondale, Ill. Filed Sept. 11, 1952.

KINGFISHER

For Fabric Work Gloves.
Claims use since Aug. 15, 1952.

Ser. No. 635,437. Skirtmasters, Inc., New York, N. Y. Filed Sept. 18, 1952.

"The Skirtmaster"

For Women's and Children's Skirts, Slacks, and Outer Shorts.
Claims use since May 1, 1952.

Ser. No. 635,826. Louis Fischl Glove Co. Ltd., Prescott, Ontario, Canada. Filed Sept. 26, 1952.

Skin next loves

No claim is made to the exclusive use of the word "Gloves."
For Leather and Fabric Gloves.
Claims use since Sept. 26, 1950; and first used in commerce between Canada and the United States on Sept. 26, 1950.

Ser. No. 638,329. Texas Harvest Hat Company, Laredo, Tex. Filed Nov. 19, 1952.

THE SUN-LINER

For Men's, Ladies', and Children's Hats.
Claims use since May 1952.

Ser. No. 640,228. Albert Rosenblatt & Sons, Inc., New York, N. Y. Filed Dec. 31, 1952.

Mindy Ross

The name "Mindy Ross" is fanciful.
For Women's and Misses' Dresses.
Claims use since Dec. 23, 1952.

Ser. No. 641,138. The Herrmann Handkerchief Company, Inc., New York, N. Y. Filed Jan. 22, 1953.



The drawing is lined for the color red.
For Handkerchiefs.
Claims use since Nov. 11, 1952.

Ser. No. 643,768. Lustberg, Nast & Co., Inc., New York, N. Y. Filed Mar. 17, 1953.

HURRICOAT

For Men's and Boys' Finger-Tip Coats.
Claims use since April 1951.

Ser. No. 645,462. The William Carter Company, Needham Heights, Mass. Filed Apr. 17, 1953.

Spanky pants

No claim is made to the word "Pants" apart from the mark as shown.
For Women's and Girls' Pants.
Claims use since June 1950.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 625,696. Societa Veneziana Conterie e Cristallerie, Murano (Venice), Italy. Filed Feb. 28, 1952.



No exclusive claim is made to the words "Society," "Veneziana," and "Conterie," except in the association shown on the drawing.

For Beads for Jewelry, Necklaces, Bracelets, Earrings, and Lamp Beads, All Made of Non-Precious Metal or Stones.
Claims use since July 1940.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 619,206. J. London & Co., Philadelphia, Pa. Filed Sept. 25, 1951.

"DRA-PUL"

For Window Curtains and Draperies.
Claims use since Sept. 4, 1951.

Ser. No. 633,803. United Elastic Corporation, Easthampton, Mass. Filed Aug. 12, 1952. (Sec. 2f.)

STRETCH-TEX

No claim is made to the word "Stretch" apart from the mark as shown on the drawing. Applicant claims ownership of Registration No. 320,131.
For Narrow Elastic Webbing Made With Either Cotton, Rayon, or Silk.
Claims use since May 16, 1934.

Ser. No. 640,182. Waite Carpet Company, Oshkosh, Wis. Filed Dec. 30, 1952.

Fairwai

Applicant claims ownership of Registrations Nos. 204,524, 211,062, and others.
For Textile Rugs and Carpets.
Claims use since Sept. 15, 1952.

Ser. No. 643,521. Waite Carpet Company, Oshkosh, Wis. Filed Mar. 11, 1953.

Waitone

Applicant claims ownership of Registrations Nos. 204,524, 211,062, and others.
For Textile Rugs and Carpets.
Claims use since Sept. 15, 1949.

Ser. No. 645,359. Dan River Mills, Incorporated, Danville, Va. Filed Apr. 15, 1953.

DOMINION

Applicant claims ownership of Registration No. 404,328.
For Textile Fabrics in the Piece of Cotton and Synthetic Fibers.
Claims use since Feb. 11, 1953.

Ser. No. 645,534. Burlington Mills Corporation, Greensboro, N. C. Filed Apr. 20, 1953.

KISMET KLOTH

Applicant does not claim exclusive right to the use of the word "Kloth" per se. Applicant claims ownership of Registration No. 90,560.
For Fabrics in the Piece of Synthetic Fibers.
Claims use since about June 1, 1942.

Ser. No. 645,657. National Tricot Company, Hawthorne, N. J. Filed Apr. 21, 1953.

TRIARA

For Piece Goods of Rayon, Nylon, Silk, Cotton, Wool, and Combinations Thereof.
Claims use since Jan. 15, 1953.

Ser. No. 645,685. Wamsutta Mills, New Bedford, Mass. Filed Apr. 21, 1953.

POISE

For Piece Goods of a Blend of Worsted and Acrylic Fiber.
Claims use since Apr. 10, 1953.

Ser. No. 645,769. Bartmann & Bixer, Inc., New York, N. Y. Filed Apr. 23, 1953.

KENGLASS

For Window Curtains.
Claims use since Feb. 2, 1953.

Ser. No. 646,034. S. H. Kress and Company, New York, N. Y. Filed Apr. 23, 1953.

Virginia K

Applicant claims ownership of Registration No. 306,752.
For Cotton Piece Goods.
Claims use since Feb. 1, 1933.

Ser. No. 646,055. De Jong Inc., Long Island City, N. Y. Filed Apr. 28, 1953.

GLOWOOD

For Window Curtains, Cafe Curtains, and Dutch Curtains.
Claims use since September 1950.

Ser. No. 646,114. Deering, Milliken & Co., Inc., New York, N. Y. Filed Apr. 29, 1953.

GOLDENFLAKE

For Textile Fabrics Made of Wool, Cotton, and Synthetic Fibers and Combinations Thereof.
Claims use since Apr. 13, 1953.

CLASS 43

THREAD AND YARN

Ser. No. 646,072. Lowell Covered Rubber Thread Co. Inc., Lowell, Mass. Filed Apr. 28, 1953.

LOWLASTIC

For Elastic Thread.
Claims use since March 1951.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 632,343. American Cystoscope Makers, Inc., New York, N. Y. Filed July 10, 1952. (Sec. 2f.)

BROYLES

For Nasopharyngoscopes and Components Thereof.
Claims use since 1939.

Ser. No. 632,345. American Cystoscope Makers, Inc., New York, N. Y. Filed July 10, 1952. (Sec. 2f.)

KIRWIN

For Lithotrites and Rongeurs.
Claims use since August 1930.

Ser. No. 632,346. American Cystoscope Makers, Inc., New York, N. Y. Filed July 10, 1952. (Sec. 2f.)

LOWSLEY-PETERSON

For Endoscopes and Components Thereof.
Claims use since 1936.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 541,592. The B. F. Shriver Company, Westminster, Md. Filed Nov. 18, 1947. (Sec. 2f.)

SHRIVER'S



For Canned Vegetables, Canned Tomato Juice, and Green Tomato Pickle.
Claims use since Dec. 5, 1895.

Ser. No. 552,707. Ralston Purina Company, St. Louis, Mo. Filed Mar. 22, 1948. (Sec. 2f.)

CHOWMIX

Applicant claims ownership of Registrations Nos. 90,837, 102,843, 111,105, and 376,424.
For Poultry and Stock Feed, the Principal Ingredients of Which Are Corn, Mill Feed, and Alfalfa.
Claims use since Mar. 2, 1939.

Ser. No. 563,943. Mayhaw Canning Company, Inc., Laurel, Miss. Filed Aug. 24, 1948. (Sec. 2f.)

MISS AMERICA

The woman shown in the drawing is fanciful and is not that of any known living person. Applicant claims ownership of Registration No. 281,225.
For Canned Fruits, Canned Vegetables, and Canned Shrimp.
Claims use since June 13, 1922.

Ser. No. 589,466. Orchard Products Company, Chicago, Ill. Filed Dec. 16, 1949.

"SELSON"

For Fruit Preserves.
Claims use since Dec. 7, 1949.

Ser. No. 596,751. Ranger Ice Cream Company, Washington, D. C., assignor to William R. Howell, Arlington, Va. Filed May 2, 1950.

RANGER

For Frozen Coated Ice Cream Bars.
Claims use since Apr. 26, 1950.

Ser. No. 607,421. Doughboy Industries, Inc., New Richmond, Wis. Filed Dec. 8, 1950.

DOUGHBOY
CHICK STARTER
PETS

No claim is made to the language "Chick Starter" apart from the mark in its entirety. Applicant claims ownership of Registrations Nos. 131,551 and 428,369.
For Poultry Feeds.
Claims use since Oct. 31, 1950.

Ser. No. 629,944. Halter's Pretsels, Inc., Canton, Ohio. Filed May 20, 1952.



For Pretsels and Pretsel Sticks.
Claims use since May 5, 1952.

Ser. No. 631,793. Fisher Flouring Mills Company, Seattle, Wash. Filed June 26, 1952.

KOW KRUNCH

No claim is made to the word "Kow" apart from the mark as shown.
For Livestock Feeds—Namely, Dairy Feed.
Claims use since May 9, 1952.

Ser. No. 633,899. Winter Garden Citrus Products Cooperative, Winter Garden, Fla. Filed Aug. 13, 1952.

SUN STATE
BRAND

Applicant disclaims the word "Brand" apart from the mark as it appears. Applicant claims ownership of Registration No. 311,956.
For Canned Citrus Juices Both Frozen and Unfrozen.
Claims use since June 21, 1952.

Ser. No. 633,900. Winter Garden Citrus Products Cooperative, Winter Garden, Fla. Filed Aug. 13, 1952.

SUNSHINE STATE
BRAND

Applicant disclaims the word "Brand" apart from the mark as it appears.
For Canned Citrus Juices Both Frozen and Unfrozen.
Claims use since June 21, 1952.

Ser. No. 634,984. Lettuce, Incorporated, Salinas, Calif. Filed Sept. 8, 1952. COLLECTIVE MARK.



Applicant claims ownership of Registration No. 407,410.
For Fresh Lettuce.
Claims use since July 10, 1952.

Ser. No. 636,773. Converted Rice, Inc., Houston, Tex. Filed Oct. 17, 1952. (Sec. 2f.)

Converted-Nibs

Applicant claims ownership of Registration No. 563,449.
For Rice for Food for Human Consumption.
Claims use since Nov. 8, 1948, on the mark as shown; and the word "Converted" was first used on Oct. 28, 1942.

Ser. No. 640,925. Edwards-Freeman, Inc., Philadelphia, Pa. Filed Jan. 19, 1953. (Sec. 2f.)

OAKDALE

For Dried Fruits and Evaporated Fruits.
Claims use since in the year 1905.

Ser. No. 642,837. Petpak Products Company, Milwaukee, Wis. Filed Feb. 26, 1953.



Without waiver of common law rights, representation of parakeets, in general, is disclaimed apart from the mark as shown. The word "Keet" is also disclaimed apart from the mark as shown.
For Bird Feed.
Claims use since Dec. 1, 1946.

Ser. No. 644,228. Flotill Products, Incorporated, Stockton, Calif. Filed Mar. 26, 1953.

Tillie of the Valley



The portrait is that of Mrs. Tillie Lewis, whose consent is of record.
For Canned Fruits and Canned Vegetables.
Claims use since Oct. 27, 1952.

Ser. No. 644,461. Southern Milling Company, Augusta, Ga. Filed Mar. 30, 1953.

MOFLO

For Cattle Feed.
Claims use since Jan. 1, 1932.

Ser. No. 645,481. The Great Western Sugar Company, Denver, Colo. Filed Apr. 17, 1953. (Sec. 2f.)

JOHNSTOWN

For Sugar.
Claims use since May 17, 1927.

Ser. No. 645,750. Wass Food Products Company, Chicago, Ill. Filed Apr. 22, 1953.

MeatMate

No claim is made to the exclusive use of the word "Meat" apart from the mark shown in the drawing.
For Food Preparation Containing Vegetable Ingredients, Seasoning, and Flavoring, Which Is Spread on Meats To Seal the Juices During the Process of Cooking.
Claims use since Nov. 7, 1952.

Ser. No. 646,249. Welch Nut & Candy Co., Chicago, Ill. Filed Apr. 30, 1953.

CHUBBIES

For Candy.
Claims use since Sept. 22, 1952.

Ser. No. 646,711. Howard L. Griffin, doing business under the trade name of Griffin Baking Company, Greensboro, N. C. Filed May 5, 1953. (Sec. 2f.)

Griffin's

For Baked and Fried Pies.
Claims use since 1926.

Ser. No. 646,712. Howard L. Griffin, doing business under the trade name of Griffin Baking Company, Greensboro, N. C. Filed May 5, 1953. (Sec. 2f.)



For Baked and Fried Pies.
Claims use since 1926.

Ser. No. 648,043. K. J. Preiswerck Ltd., Vancouver, British Columbia, Canada. Filed June 1, 1953.



For Sweetened Coconut.
Claims use since May 20, 1948; and use in commerce between Canada and the United States since Mar. 17, 1952.

Ser. No. 648,097. The Franklin Ice Cream Company, Cleveland, Ohio. Filed June 2, 1953.

Chubbies

For Candy.
Claims use since on or about Apr. 20, 1953.

Ser. No. 648,335. Standard Brands Incorporated, New York, N. Y. Filed June 5, 1953.

Blue Cap

Applicant claims ownership of Registrations Nos. 218,945, 332,628, and others.
For Margarine.
Claims use since Sept. 18, 1925.

CLASS 47

WINES

Ser. No. 641,702. Julius Wile Sons and Co., Inc., New York, N. Y. Filed Feb. 3, 1953.



"Chateau Ste Roseline" is not a geographical term but is the name of a chateau which is the exclusive property of applicant's assignor Baron de Rasque de Laval in the village of Les Arcs-sur-Argens (Var), France.
For Pink Wine.
Claims use since in the year 1927.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 571,647. John Labatt Limited, London, Ontario, Canada. Filed Jan. 5, 1949. (Sec. 2f as to "Labatt's.")



The drawing is lined for gold and red. Applicant disclaims the exclusive use of the words "Crystal Lager" apart from the mark as a whole. Applicant claims ownership of Registrations Nos. 320,661, 382,949, and others.
For Lager Beer.
Claims use since Dec. 1, 1948 on the mark shown; and since July 23, 1886 as to "Labatt's."

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 613,530. Società per Azioni G. B. Pezziol, Padova, Italy. Filed May 4, 1951.

VOV

Applicant claims ownership of Italian Registration No. 10,390, dated Apr. 26, 1910, renewed under No. 85,640 on Jan. 29, 1949.
For Egg Punch Using Brandy as a Base.

Ser. No. 617,711. Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier Fils Aine et Cie), Paris, France. Filed Aug. 15, 1951. (Sec. 2f.)



The representation of the cherries is disclaimed. Applicant claims ownership of Registrations Nos. 312,197, 62,370, and others.
For Cherry Liqueur.
Claims use since 1908 in France; and since 1910 in commerce between France and the United States.

Ser. No. 617,712. Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier Fils Aine et Cie), Paris, France. Filed Aug. 15, 1951. (Sec. 2f.)



All wording except the word "Cusenier" is disclaimed apart from the mark shown. Applicant claims ownership of Registrations Nos. 312,197, 62,371, and others.
For Apricot Liqueur.
Claims use since 1907 in France; and since 1907 in commerce between France and the United States.

Ser. No. 617,714. Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier Fils Aine et Cie), Paris, France. Filed Aug. 15, 1951. (Sec. 2f.)



All wording except the word "Cusenier" is disclaimed apart from the mark shown. The wording appearing in the seal (middle label) reads as follows: "E. Cusenier & Co." The name "E. Cusenier" and the facsimile signature appearing on the drawing are those of the founder of the applicant's business. Applicant claims ownership of Registrations Nos. 312,197, 62,370, and others.
For Liqueurs.
Claims use since 1912 in France; and since 1912 in commerce between France and the United States.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 622,033. Sears, Roebuck and Co., Chicago, Ill. Filed Dec. 3, 1951.



For Cologne, Shave Lotion, Talcum Powder, After Shave Stick, Lotion and Cologne Set, Cream Hair Dressing, Cream Hair Tonic, Brushless Shaving Cream, Lather Shaving Cream, Shaving Bowl (Shaving Soap), Shaving Lotion and Bowl Sets (Shaving Bowl With Soap and Lotion).
Claims use since June 25, 1951.

Ser. No. 624,730. Simon L. Caponette, doing business under the name House of Louis, Boston and North Andover, Mass. Filed Feb. 9, 1952.

p'amour

For Hair Pomade.
Claims use since July 1, 1946.

Ser. No. 637,469. Wallach's, Inc., New York, N. Y., and elsewhere. Filed Oct. 31, 1952.

Racquet Club

For Toiletries—Namely, Cologne and After-Shave Lotion.
Claims use since July 1951.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 625,028. The Pennsylvania Salt Manufacturing Co., Philadelphia, Pa. Filed Feb. 15, 1952.

PENNSALT SCALE REMOVER 4

Exclusive right to the words "Scale Remover" is disclaimed apart from the trade-mark as shown. Applicant claims ownership of Registrations Nos. 392,195, 408,183, and others.
For Metal Cleaner and Descaler.
Claims use since Nov. 16, 1951.

Ser. No. 628,794. Wade, Wenger & Associates, Inc., Chicago, Ill. Filed Apr. 26, 1952.

DRYBRITEN

For Cleaning Compound for Household Textile Furnishings.
Claims use since Feb. 18, 1952.

Ser. No. 628,798. Wade, Wenger & Associates, Inc., Chicago, Ill. Filed Apr. 26, 1952.

service master

For Cleaning Compounds for Household Textile Furnishings.
Claims use since Feb. 18, 1952.

Ser. No. 633,705. Charles Antell, Inc., Baltimore, Md. Filed Aug. 11, 1952.

CLOROLAN

For Soap.
Claims use since Aug. 1, 1952.

SERVICE MARKS

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 643,253. Trailmobile Inc., Cincinnati, Ohio. Filed Mar. 6, 1953.

TM

For Repair and Maintenance of Cargo Trailers—Namely, Replacing Body Panels, Painting Trailer, Installing Clearance Lights, Changing Vacuum to Air Brakes, Installing New Roof, Installing Tire Carrier, Removing and Replacing Rear Spring Hangar on Single Axle, Replacing Entire Floor of Trailer, Repacking Wheels, Replacing Broken Springs, Repairing Brake System, and Relining Brakes. Claims use since Jan. 29, 1953.

CLASS 106

MATERIAL TREATMENT

Ser. No. 634,540. Metallurgical Laboratories, Inc., Wyndmoor, Pa. Filed Aug. 27, 1952.

METLAB

For Heat Treating Metals and Metal Alloys To Change the Mechanical Properties, To Change the Surface Characteristics, and Impart Thereto Resistance to Corrosion. Claims use since on or about Aug. 1, 1928.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 602,022. John Convery, doing business as Television Corporation of America, Alameda, Calif., and Washington, D. C. Filed Aug. 10, 1950.

TCA

For Producing Motion Picture Film for Others and Leasing Film on a Contract Basis. Claims use since Feb. 15, 1948.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,788. Porcelain Enamelled Pressed Sheet Metal Sinks; and Combined Porcelain Enamelled Pressed Sheet Metal Sink and Sheet Metal Cabinet Units. Mullins Manufacturing Corporation, Salem and Warren, Ohio, assignor to The Hobart Manufacturing Company, Troy, Ohio, a corporation of Ohio.
Filed July 22, 1946, Serial No. 506,052. Published Feb. 18, 1947. Class 13.

444,789. Ladies' and Girls' Hats and Hat Bodies. Merrimac Hat Corporation, Amesbury, Mass.
Filed Aug. 24, 1946, Serial No. 507,993. Published June 22, 1948. Class 39.

ACT OF 1946, PRINCIPAL REGISTER

579,523. Coffee and Beverage Chocolate. Horn & Hardart Baking Co., Philadelphia, Pa.
Filed Feb. 26, 1948, Serial No. 550,599. CONCURRENT USE. Published June 9, 1953. Class 46.

579,524. Women's Millinery—Namely, Hats and Bonnets. S and B Millinery Company, Toledo, Ohio.
Filed Mar. 5, 1948, Serial No. 551,315. Published June 2, 1953. Class 39.

579,525. Carburetors and Fuel Pumps and Parts Thereof. Carter Carburetor Corporation, St. Louis, Mo.
Filed June 15, 1948, Serial No. 559,211. Published June 2, 1953. Class 23.

579,526. Architectural Glass—Namely, Glass Blocks for Architectural Use in Constructing Building Walls, Partitions, and Windows. Pittsburgh Corning Corporation, Pittsburgh, Pa.
Filed Nov. 18, 1948, Serial No. 569,013. Published June 16, 1953. Class 12.

579,527. Diving Gear, That Is Respiratory Apparatus for Use by Personnel in Submarines and Divers. La Spirotechnique, Paris, France.
Filed Dec. 16, 1949, Serial No. 589,454. Published June 16, 1953. Class 44.

579,528. Kit Containing Laundry Equipment, Specifically, Soap, Clothes Line, and Clothespins. Towsley, Inc., Indianapolis, Ind., assignor, by mesne assignments, to The Squirt Company, Beverly Hills, Calif., a corporation of California.
Filed Dec. 31, 1949, Serial No. 590,242. Published June 24, 1952. Class 50.

579,529. Peat, Peat Moss, and Humus. Michigan Peat, Inc., New York, N. Y.
Filed Feb. 23, 1950, Serial No. 592,918. Published June 16, 1953. Class 1.

579,530. Perfume, Cologne, Toilet Water. Parfumerie Gelle Freres, Societe a Responsabilite Limitee and trading as Gelle Freres, Paris, France.
Filed Mar. 30, 1950, Serial No. 594,918. Published May 26, 1953. Class 51.

579,531. Perfume, Toilet Water, Talcum Powder, Rouges, Brilliantine, Bath Salts, and Hair Tonic. J. L. Singkin, Minneapolis, Minn.
Filed May 15, 1950, Serial No. 597,469. Published Mar. 18, 1952. Class 51.

579,532. Hair Oil Preparation. The Mennen Company, Newark, N. J.
Filed May 19, 1950, Serial No. 597,770. Published Oct. 7, 1952. Class 51.

579,533. Preparation for the Extermination of Roaches, Water Bugs, Ants, Flies, Mosquitoes, and Other Insects. Red Dot Laboratories, Florence, S. C.
Filed May 20, 1950, Serial No. 597,842. Published June 23, 1953. Class 6.

579,534. Manure. The Davey Tree Expert Company, Kent, Ohio.
Filed May 23, 1950, Serial No. 597,948. Published May 27, 1952. Class 10.

579,535. Threaded Steel Rods. La Salle Steel Company, Hammond, Ind., assignor to Redi-Bolt, Inc., Hammond, Ind., a corporation of Indiana.
Filed May 26, 1950, Serial No. 598,192. Published Oct. 28, 1952. Class 14.

579,536. Modeling Clays Intended for Creative Art Work. Luster Art Company, Salt Lake City, Utah.
Filed June 6, 1950, Serial No. 598,660. Published June 16, 1953. Class 1.

579,537. Phosphorus; Compositions Containing Phosphorus in Combined Form, Viz., Phosphoric Acid, Phosphates, and Mineral Mixtures Predominantly Containing Phosphates; Finely Divided Carbon; and Calcium Arsenate. The American Agricultural Chemical Company, New York, N. Y.
Filed June 16, 1950, Serial No. 599,210. Published June 23, 1953. Class 6.

579,538. Phosphorus; Compositions Containing Phosphorus in Combined Form, Viz., Phosphoric Acid, Etc. The American Agricultural Chemical Company, New York, N. Y.
Filed June 16, 1950, Serial No. 599,212. Published June 23, 1953. Class 6.

579,539. Internal Combustion Engines, Portable Engines (Not for Land Vehicles), Etc. Sentinel (Shrewsbury) Limited, Shrewsbury, Shropshire, England.
Filed June 30, 1950, Serial No. 600,066. Published May 19, 1953. Class 23.

579,540. Rotary Cultivators for Attachment to the Cultivator Bars of Tractors. Cultro, Inc., Boise, Idaho.
Filed July 3, 1950, Serial No. 600,163. Published May 26, 1953. Class 23.

579,541. Denture Relining Pads. Warren E. Faxon, doing business as Midland Dental Company, Chicago, Ill., assignor to Midland Pharmacal Company, New York, N. Y., a partnership.
Filed July 8, 1950, Serial No. 600,377. Published June 9, 1953. Class 44.

579,542. Molded Plastic Toys and Games Which Are Provided With Chains Which May Serve as Key Rings. Helenhart Novelty Corporation, New York, N. Y.
Filed July 10, 1950, Serial No. 600,434. Published June 23, 1953. Class 22.

579,543. Preheaters, Cookers, and Coolers Utilized as a Unitary System in the Processing of Canned Goods. Food Machinery and Chemical Corporation, San Jose, Calif.
Filed July 26, 1950, Serial No. 601,260. Published Apr. 22, 1952. Class 34.

579,544. Men's and Boys' Overcoats, Coats, Vests, Trousers, and Raincoats. Namm's, Inc., Brooklyn, N. Y., now by change of name Namm-Loeser's Inc.
Filed Aug. 19, 1950, Serial No. 602,465. Published June 2, 1953. Class 39.

579,545. Ladies' Crepe Hosiery. Rosedale Knitting Company, Reading, Pa.
Filed Aug. 22, 1950, Serial No. 602,570. Published June 2, 1953. Class 39.

579,546. Perfumes. Belcano Company, Jersey City, N. J.
Filed Aug. 25, 1950, Serial No. 602,741. Published June 2, 1953. Class 51.

579,547. Cooking Equipment—Namely, Ranges, Grills, Griddles, Broilers, Fryers, Steam Tables, Bain Maries, and Steam Pressure Cookers, Having Their Own Sources of Heat. Nathan Straus-Duparquet, Inc., New York, N. Y.
Filed Sept. 7, 1950, Serial No. 603,263. Published June 9, 1953. Class 34.

579,548. Carburetors and Fuel Pumps, and Special Wrenches, Screw Drivers, Drills, and Jigs Therefor, and Parts Thereof. Carter Carburetor Corporation, St. Louis, Mo.
Filed Sept. 13, 1950, Serial No. 603,474. Published May 26, 1953. Class 23.

579,549. Automobile Shampoo, Automobile Cooling System Cleaner. The Pure Oil Company, Chicago, Ill.
Filed Sept. 29, 1950, Serial No. 604,221. Published May 19, 1953. Class 52.

579,550. Sump Pump. William G. Mason, doing business as Triangle Manufacturing Company, Detroit, Mich.
Filed Oct. 9, 1950, Serial No. 604,647. Published May 26, 1953. Class 23.

579,551. Overalls. Sears, Roebuck and Co., Chicago, Ill.
Filed Oct. 21, 1950, Serial No. 605,272. Published May 19, 1953. Class 39.

579,552. Liquid Preparation for Cleaning and Polishing Footwear, Having Incidental Preserving and Dressing Properties. Joseph A. Murena, New York, N. Y.
Filed Oct. 25, 1950, Serial No. 605,433. Published June 9, 1953. Class 4.

579,553. Television Broadcast Receivers, and Radio and Phonograph Combinations Incorporating Television Broadcast Receivers. General Electric Company, Schenectady, N. Y.
Filed Oct. 26, 1950, Serial No. 605,515. Published June 23, 1953. Class 21.

579,554. Electron Tubes of the Temperature Limited Diode Type and for Thermal Time Delay Tubes of the Temperature Resistance Type. Bendix Aviation Corporation, Detroit, Mich., and Teterboro, N. J.
Filed Jan. 3, 1951, Serial No. 608,298. Published June 23, 1953. Class 21.

579,555. Natural and Synthetic Expanded and Non-Expanded Rubber and Resin Materials in Sheets, Rolls, and Tubes, and Sponges Including Toilet and Hand Sponges. Expanded Rubber Company Limited, Croydon, Surrey, England.
Filed Jan. 5, 1951, Serial No. 608,415. Published June 16, 1953. Class 1.

579,556. Mine Skips Comprising a Vertical Bucket Carried on a Frame Which Is Hoisted Vertically in the Mine Shaft. Lake Shore Engineering Company, Iron Mountain, Mich.
Filed Jan. 5, 1951, Serial No. 608,420. Published May 19, 1953. Class 23.

579,557. Underlayment Material in the Nature of a Plastic Synthetic Resin, Etc. Miracle Adhesives Corporation, New York, N. Y.
Filed Jan. 12, 1951, Serial No. 608,712. Published June 2, 1953. Class 12.

579,558. Abrasive Cutting Powder and Abrasive Cleaning Powder, Etc. The S. S. White Dental Manufacturing Company, Philadelphia, Pa.
Filed Jan. 12, 1951, Serial No. 608,728. Published June 2, 1953. Class 4.

579,559. Chemical Compounds To Repel Birds and Rodents. Joseph H. Fink, doing business as National Bird Control Laboratories, Chicago, Ill.
Filed Jan. 17, 1951, Serial No. 608,864. Published June 23, 1953. Class 6.

579,560. Natural and Synthetic Expanded and Non-Expanded Rubber and Resin Materials in Sheets, Rolls, and Tubes, and Sponges Including Toilet and Hand Sponges. Expanded Rubber Company Limited, Croydon, Surrey, England.
Filed Jan. 12, 1951, Serial No. 608,968. Published June 16, 1953. Class 1.

579,561. Antacid Preparation in Tablet Form. Congress Drug Corporation, Chicago, Ill., assignor to G. D. Searle & Co., Skokie, Ill.
Filed Jan. 25, 1951, Serial No. 609,231. Published June 17, 1952. Class 18.

579,562. Mouldings, Doors, and Door Frames, Windows and Window Frames, and Assembled Window Units. Lemieux Bros., West Hanover, Mass., assignor to Lemieux Bros., Inc., West Hanover, Mass., a corporation of Massachusetts.
Filed Jan. 25, 1951, Serial No. 609,246. Published Nov. 25, 1952. Class 12.

579,563. Cleaning Powder for Toilet Bowls. The Gerson-Stewart Corporation Company, Cleveland, Ohio.
Filed Feb. 13, 1951, Serial No. 610,013. Published Mar. 25, 1952. Class 52.

579,564. Modeling Clay, Clay Flour, Moist Clay, Etc. American Art Clay Company, Indianapolis, Ind.
Filed Feb. 19, 1951, Serial No. 610,253. Published June 2, 1953. Class 1.

579,565. Box Wrenches, Combination Box and Open End Wrenches, Open End Wrenches, "Stillson" Pipe Wrenches, Pliers, Automotive Pliers, Rim Wrenches, Tire Irons, and Valve Lifting Tools. Lectrolite Corporation, Defiance, Ohio.
Filed Apr. 9, 1951, Serial No. 612,405. Published May 26, 1953. Class 23.

579,566. Surgical Dressings, Adhesive Plasters, Adhesive Bandage, Adhesive Tapes, Absorbent Cotton, Prepared Bandages, and Gauze Bandages for Surgical, Medical, Dental, and Veterinary Use. The American White Cross Laboratories, Inc., New Rochelle, N. Y.
Filed Apr. 30, 1951, Serial No. 613,316. Published June 16, 1953. Class 44.

579,567. Gasoline. American Oil Company, Baltimore, Md.
Filed May 9, 1951, Serial No. 613,663. Published June 2, 1953. Class 15.

579,568. Parts of Low Tension Capacitive Automotive Ignition Apparatus, Etc. Smitsvonk N. V., The Hague and Rijswijk (Z.-H.), Netherlands.
Filed May 17, 1951, Serial No. 614,016. Published June 9, 1953. Class 21.

579,569. Industrial Hand Cream. Henry A. Schwager, Jr., doing business as Resistant Lubricant Co. of America, Royal Oak, Mich.
Filed May 21, 1951, Serial No. 614,168. Published June 9, 1953. Class 51.

579,570. Fortified Food Supplement, Etc. Downing B. Randal, doing business as Randal Nutritional Laboratories, Arcadia, Calif.
Filed June 5, 1951, Serial No. 614,787. Published June 2, 1953. Class 18.

579,571. Poultry Biologics, Medicines, and Pharmaceutical Preparations—Namely, Sodium Sulfathiasole, Etc. Vineland Poultry Laboratories, Landis Township, Cumberland County, N. J.
Filed June 18, 1951, Serial No. 615,359. Published Dec. 9, 1952. Class 18.

579,572. Cold Storage Door Gaskets. Arthur D. Smithson, doing business under the assumed name of Smithson Cold Storage Door Repair Service, Syracuse, N. Y.
Filed July 14, 1951, Serial No. 616,516. Published June 9, 1953. Class 35.

579,573. Carpets and Rugs, Made From Textiles, Cotton, Wool, Pile, and Combinations Thereof. Archibald Holmes & Son, Philadelphia, Pa.
Filed July 20, 1951, Serial No. 616,709. Published Mar. 11, 1952. Class 42.

579,574. Artists' Brushes, Chinese Re-Etching Brushes, Glass Fibre Re-Etching Brushes, Etc. Powers Chemco, Inc., Glen Cove, N. Y.
Filed July 31, 1951, Serial No. 617,160. Published June 24, 1952. Class 29.

579,575. Hand Tools—Namely, Scoops and Shovels. The Wood Shovel and Tool Company, Piqua, Ohio.
Filed Aug. 1, 1951, Serial No. 617,221. Published May 26, 1953. Class 23.

579,576. Women's Hosiery. M. K. M. Hosiery Mills, Inc., Boston, Mass.
Filed Aug. 16, 1951, Serial No. 617,762. Published June 2, 1953. Class 39.

579,577. Oil Tanks for Aircraft. United Aircraft Products, Inc., Dayton, Ohio.
Filed Aug. 27, 1951, Serial No. 618,136. Published June 16, 1953. Class 19.

579,578. Plastic Fire Brick—Namely, Refractory Cement. The Inland Fire Brick Company, Cleveland, Ohio.
Filed July 19, 1951, Serial No. 618,263. Published June 9, 1953. Class 12.

579,579. Table Syrup. William H. Hatton, doing business as Country Products, Morgan, Vt.
Filed Aug. 31, 1951, Serial No. 618,294. Published June 9, 1953. Class 46.

579,580. Preparation in Tablet Form, Used in the Treatment of High Blood Pressure. Barlow-Maney Laboratories, Cedar Rapids, Iowa.
Filed Sept. 7, 1951, Serial No. 618,478. Published June 9, 1953. Class 18.

579,581. Moisture Vent Tubes. Earl W. Cornwall, doing business as Cornwall & Co., Euclid, Ohio.
Filed Sept. 14, 1951, Serial No. 618,787. Published June 2, 1953. Class 34.

579,582. Tubal Insufflators; Apparatus for Converting Compressed or Liquefied Carbon Dioxide Into Solid Carbon Dioxide, Etc. Kidde Manufacturing Co., Inc., Bloomfield, N. J.
Filed Sept. 21, 1951, Serial No. 619,068. Published June 9, 1953. Class 44.

579,583. Tubal Insufflators; Apparatus for Converting Compressed or Liquefied Carbon Dioxide Into Solid Carbon Dioxide, Etc. Kidde Manufacturing Co., Inc., Bloomfield, N. J.
Filed Sept. 21, 1951, Serial No. 619,069. Published June 9, 1953. Class 44.

579,584. Cold Wave Solution for the Hair. Gilda Audrey Products, Inc., New York, N. Y.
Filed Sept. 28, 1951, Serial No. 619,327. Published June 9, 1953. Class 51.

579,585. Motor Oils. Petroleum Specialties, Inc., New York, N. Y.
Filed Sept. 28, 1951, Serial No. 619,353. Published May 13, 1952. Class 15.

579,586. Toilet Soap, Liquid and Cream Shampoo, and Cleaning Preparations Adapted for Use in Cleansing the Skin. Gaymont Laboratories, Inc., Chicago, Ill.
Filed Oct. 18, 1951, Serial No. 620,154. Published June 9, 1953. Class 52.

579,587. Polish for Leather Goods. Barton Manufacturing Company, St. Louis, Mo.
Filed Oct. 22, 1951, Serial No. 620,295. Published May 12, 1953. Class 4.

579,588. Solvent Naphtha for Dry Cleaning, Paint Solvent, and Metal Cleaning. American Mineral Spirits Company, Chicago, Ill.
Filed Oct. 26, 1951, Serial No. 620,485. Published May 19, 1953. Class 52.

579,589. Carburetors, Vacuum Tanks for Use With Carburetors, Tractor Governors, and Lawn Mowers. Kingston Products Corporation, Kokomo, Ind.
Filed Oct. 26, 1951, Serial No. 620,511. Published Feb. 17, 1953. Class 23.

579,590. Antiseptic Douche Powder and Antiseptic Vaginal Suppository. Edgar M. Lewin, doing business as Lewin Drug Co., San Francisco, Calif.
Filed Nov. 2, 1951, Serial No. 620,811. Published Sept. 23, 1952. Class 18.

579,591. Moisture Sensitive Adhesive Tapes, Particularly for Use in the Manufacture of Corrugated Boxes, Such as for Securing the Corners of Said Boxes. The Gummed Products Company, Troy, Ohio.
Filed Nov. 6, 1951, Serial No. 620,916. Published June 9, 1953. Class 5.

579,592. Storage Batteries. Vanity Fair Corporation, Waltham, Mass., now, by change of name, Hartford Battery Corporation.
Filed Nov. 6, 1951, Serial No. 620,943. Published June 9, 1953. Class 21.

579,593. Waterproof Diaper Covers Made of Plastic. Yaleco Rubber Company, Inc., New Haven, Conn.
Filed Nov. 8, 1951, Serial No. 621,043. Published May 26, 1953. Class 39.

579,594. Detergent Material for Cleansing, Sanitizing, Deodorizing, and Milkstone Removing. Cooperstown Chemical, Inc., Cooperstown, N. Y.
Filed Nov. 17, 1951, Serial No. 621,356. Published June 9, 1953. Class 52.

579,595. Hemi-Cellulose Material in Powder Form. Masonite Corporation, Chicago, Ill., and Laurel, Miss.
Filed Nov. 19, 1951, Serial No. 621,409. Published June 9, 1953. Class 1.

579,596. Men's Knitted Sweaters and Basque Shirts. Lord Jeff Knitting Company, Incorporated, Brooklyn, N. Y.
Filed Nov. 21, 1951, Serial No. 621,522. Published May 26, 1953. Class 39.

579,597. Electrically Operated Vacuum Cleaner for Industrial Use. Ralph H. Persons, doing business as American Vacuum Company, Chicago, Ill.
Filed Nov. 23, 1951, Serial No. 621,575. Published May 26, 1953. Class 21.

579,598. Radio Antennas. Marvin Webster, doing business as a sole proprietorship known as Webster Manufacturing Co., San Francisco, Calif.
Filed Nov. 27, 1951, Serial No. 621,739. Published June 23, 1953. Class 21.

579,599. Headset Consisting of Earphones Used in Connection With Radio or Other Sound Reproducing Apparatus. Telex, Inc., St. Paul, Minn.
Filed Nov. 30, 1951, Serial No. 621,922. Published June 23, 1953. Class 21.

579,600. Yellow Pine and Hardwood Flooring, and Hardwood and Pine Millwork, Including Window Sash Rails and Quarter Round, Used in the Construction of Buildings. Columbus Lumber Company, Brookhaven, Miss.
Filed Dec. 7, 1951, Serial No. 622,201. Published June 9, 1953. Class 12.

579,601. Preparation for the Treatment of Hair on the Human Head—Namely, Hair Dressing. Jules Montenier, Chicago, Ill.
Filed Dec. 8, 1951, Serial No. 622,269. Published June 9, 1953. Class 51.

579,602. Metal Cleaning Compound for Magnesium and Aluminum Alloys. Northwest Chemical Co., Inc., Detroit, Mich.
Filed Dec. 15, 1951, Serial No. 622,554. Published Feb. 24, 1953. Class 52.

579,603. Automotive Truck Bodies; Farm Wagons, Including Bodies and Boxes Assembled and Separately; Trailers for Hauling Goods Behind a Prime Mover. Charles R. Gelay, doing business under the name and style of Converto Manufacturing Company, Cambridge City, Ind.
Filed Dec. 17, 1951, Serial No. 622,590. Published June 23, 1953. Class 19.

579,604. Concrete Articles for Building—Namely, Reinforced or Plain Concrete Piles for the Foundations of Bridge Piers and Abutments, Buildings, Jetties, and Piers. Braithwaite & Co. Engineers Limited, Great Bookham, Surrey, England.
Filed Jan. 3, 1952, Serial No. 623,123. Published Apr. 7, 1953. Class 12.

579,605. Adhesive Bandages, Antiseptic Applicators, Antiseptic Swabs, Bandage Compresses, and Miscellaneous First Aid Supplies—Namely, Bandage Scissors, Forceps, Snake Bite Lancet, Snake Bite Syringe, Tourniquets, Finger Cots, and Wire Splints. Medical Supply Company, Rockford, Ill.
Filed Jan. 10, 1952, Serial No. 623,423. Published June 2, 1953. Class 44.

579,606. Dry Cleaning Powder for Rugs. Von Schrader Manufacturing Company, Racine, Wis.
Filed Jan. 12, 1952, Serial No. 623,522. Published May 19, 1953. Class 52.

579,607. Swivel Joints Whereby Adjacent Ends of Arms for Electrical Lighting Fixtures Are Joined. Swivelier Company, Inc., New York, N. Y.
Filed Jan. 22, 1952, Serial No. 623,921. Published June 9, 1953. Class 21.

579,608. Chemical-Pharmaceutical Preparations Used in the Treatment of Extrapyramidal Motor Disorders, Etc. Ciag Aktiengesellschaft, Schaffhausen, Switzerland.
Filed Jan. 23, 1952, Serial No. 623,947. Published May 26, 1953. Class 18.

579,609. Permanent Magnets. The Indiana Steel Products Company, Valparaiso, Ind.
Filed Jan. 23, 1952, Serial No. 623,960. Published June 16, 1953. Class 21.

579,610. Clear Acrylic Spray Used To Waterproof, Rustproof, and Electrically Insulate Metallic Surfaces. Dupli-Color Products Co., Inc., Chicago, Ill.
Filed Jan. 25, 1952, Serial No. 624,082. Published June 9, 1953. Class 21.

579,611. Overalls. The Strouse-Baer Company, Inc., Baltimore, Md.
Filed Jan. 28, 1952, Serial No. 624,213. Published May 19, 1953. Class 39.

579,612. Plasticizer. Cambridge Industries Company, Cambridge, Mass.
Filed Jan. 29, 1952, Serial No. 624,223. Published June 23, 1953. Class 6.

579,613. Automobile and Truck Pneumatic Tires. Laher Spring and Tire Corporation, Oakland, Calif.
Filed Jan. 30, 1952, Serial No. 624,279. Published June 16, 1953. Class 35.

579,614. Men's and Boys' Jackets and Coats. Durable Sportwear Company, Inc., Lynbrook, N. Y.
Filed Jan. 31, 1952, Serial No. 624,332. Published May 26, 1953. Class 39.

579,615. Crushed Refractory Grains; Mortars; and Cements. Corhart Refractories Company, Louisville, Ky.
Filed Feb. 4, 1952, Serial No. 624,470. Published May 19, 1953. Class 12.

579,616. Exercising Apparatus for Training in the Art of Skiing. James Earl Denham, doing business under the fictitious name Skiparel Mfg. Co., Reseda, Calif.
Filed Feb. 8, 1952, Serial No. 624,678. Published June 16, 1953. Class 22.

579,617. X-Ray Machines for Medical Use for General Diagnostic Purposes. A. S. Aloe Company, St. Louis, Mo.
Filed Feb. 11, 1952, Serial No. 624,769. Published June 2, 1953. Class 44.

579,618. Microcrystalline Wax. Bareco Oil Company, Tulsa, Okla.
Filed Feb. 11, 1952, Serial No. 624,774. Published June 23, 1953. Class 6.

579,619. Cosmetics—Namely, Cologne, Perfume, Dusting Powder, Cream Sachet, Bath Oil, and Gift Sets Consisting of Several or All of the Above Items Packaged Together. Jack B. Nethercutt, doing business as Nethercutt Laboratories, Santa Monica, Calif.
Filed Feb. 11, 1952, Serial No. 624,793. Published June 2, 1953. Class 51.

579,620. Shock Absorbing Devices and Parts Thereof for Vehicles. General Motors Corporation, Detroit, Mich.
Filed Feb. 13, 1952, Serial No. 624,882. Published June 16, 1953. Class 19.

579,621. Moisture Balm of a Creamy Nature. Revlon Products Corporation, New York, N. Y.
Filed Feb. 14, 1952, Serial No. 624,971. Published June 2, 1953. Class 51.

579,622. Gas Stoves, Ovens, and Parts Thereof. Noma Electric Corporation, New York, N. Y., and Hamilton, Ohio, assignor to Radio Corporation of America, New York, N. Y., a corporation of Delaware.
Filed Feb. 16, 1952, Serial No. 625,078. Published June 16, 1953. Class 34.

579,623. Women's Hosiery. Chadbourn Hosiery Mills, Incorporated, Charlotte, N. C.
Filed Feb. 19, 1952, Serial No. 625,193. Published May 26, 1953. Class 39.

579,624. Cattle Semen. Oregon Dairy Breeders Association, Corvallis, Oreg.
Filed Feb. 27, 1952, Serial No. 625,617. Published June 2, 1953. Class 1.

579,625. Fluid Conduit Couplings. Pennsylvania Flexible Metallic Tubing Company, Philadelphia, Pa.
Filed Feb. 27, 1952, Serial No. 625,622. Published June 9, 1953. Class 13.

579,626. Fluid Conduit Couplings. Pennsylvania Flexible Metallic Tubing Company, Philadelphia, Pa.
Filed Feb. 27, 1952, Serial No. 625,623. Published June 9, 1953. Class 13.

579,627. Plastic Surface Material in Sheet Form for a Wall Covering To Be Used Instead of Plaster and for Counter Tops, Bar Tops, Table Tops, and Similar Purposes in the Industrial Arts. Marsh Wall Products, Inc., Dover, Ohio.
Filed Feb. 28, 1952, Serial No. 625,682. Published May 26, 1953. Class 12.

579,628. Plastic Surface Material in Sheet Form for a Wall Covering To Be Used Instead of Plaster and for Counter Tops, Bar Tops, Table Tops, and Similar Purposes in the Industrial Arts. Marsh Wall Products, Inc., Dover, Ohio.
Filed Feb. 28, 1952, Serial No. 625,683. Published May 26, 1953. Class 12.

579,629. Plastic Tile. Plastic Engineering, Inc., Cleveland, Ohio.
Filed Mar. 7, 1952, Serial No. 626,114. Published Feb. 3, 1953. Class 12.

579,630. Chemical Preparations for Use in Textile and Metal Industries—Namely, Red Oil, Castor Oil, Etc. Kali Manufacturing Company, Philadelphia, Pa.
Filed Mar. 8, 1952, Serial No. 626,160. Published June 2, 1953. Class 6.

579,631. Children's Coats, Snow Suits, Suits, Dresses, Pajamas, and Playsuits. Rosenblatt and Kahn, Inc., New York, N. Y.
Filed Mar. 11, 1952, Serial No. 626,266. Published May 26, 1953. Class 39.

579,632. Women's Full-Fashioned Hosiery. J. R. Beaton Company, Inc., New York, N. Y.
Filed Mar. 12, 1952, Serial No. 626,298. Published June 9, 1953. Class 39.

579,633. Electric Igniters for Fuel Burners, Electric Switches, and Valves Operated by an Electromagnet. Robertshaw-Fulton Controls Company, Greensburg, Pa.
Filed Mar. 13, 1952, Serial No. 626,415. Published June 16, 1953. Class 21.

579,634. Combined Pilot and Main Burner Gas Valves. Robertshaw-Fulton Controls Company, Greensburg, Pa.
Filed Mar. 13, 1952, Serial No. 626,420. Published June 9, 1953. Class 34.

579,635. Hard and Soft Wood Paneling. E. J. Stanton & Son, Inc., Vernon, Calif.
Filed Mar. 14, 1952, Serial No. 626,477. Published June 9, 1953. Class 12.

579,636. Candlesticks and Candle Lamps. Victrylite Candle Company, Oshkosh, Wis.
Filed Mar. 21, 1952, Serial No. 626,836. Published June 9, 1953. Class 34.

579,637. Harmonicas. Wm. Kratt Co., Union, N. J.
Filed Mar. 24, 1952, Serial No. 626,946. Published June 16, 1953. Class 36.

579,638. Brush Cutting Machines Adapted To Be Drawn by Tractors. E. L. Caldwell & Sons, Corpus Christi, Tex.
Filed Mar. 25, 1952, Serial No. 626,977. Published May 26, 1953. Class 23.

579,639. Shampoo. Fairfield Laboratories, Inc., Plainfield, N. J.
Filed Mar. 26, 1952, Serial No. 627,055. Published June 2, 1953. Class 52.

579,640. Fishing Rod Clamp. Horison Fishing Rod Servicer Co., Philadelphia, Pa.
Filed Mar. 26, 1952, Serial No. 627,065. Published June 16, 1953. Class 22.

579,641. Glucuronolactone, Sodium Glucuronate and Potassium Glucuronate, Etc. Corn Products Refining Company, New York, N. Y.
Filed Mar. 27, 1952, Serial No. 627,118. Published June 16, 1953. Class 18.

579,642. Surgical Operating Tables, Including Specifically Control Mechanisms for Adjusting Patient's Position. Air Reduction Company, Incorporated, New York, N. Y.
Filed Mar. 28, 1952, Serial No. 627,163. Published June 2, 1953. Class 44.

579,643. Power Units—Namely, Internal Combustion Engines. Hillman Motor Car Company Limited, Coventry, England.
Filed Mar. 28, 1952, Serial No. 627,187. Published May 26, 1953. Class 23.

579,644. Surgical and Medical Body Supports for Supporting the Body of an Infant in an Inclined Position for Draining the Respiratory Tract. Leon Cameto, doing business under the name and style of Production Foundry Company, Oakland, Calif.
Filed Mar. 31, 1952, Serial No. 627,320. Published June 16, 1953. Class 44.

579,645. Hematinic and Vitamin Preparation. Live Food Products Co., Burbank, Calif.
Filed Apr. 2, 1952, Serial No. 627,449. Published June 9, 1953. Class 18.

579,646. Ladies', Men's, and Boys' Belts. Yale Belt Corp., New York, N. Y.
Filed Apr. 5, 1952, Serial No. 627,656. Published May 19, 1953. Class 39.

579,647. Candy. Price Candy Company, Kansas City, Mo.
Filed Apr. 7, 1952, Serial No. 627,702. Published Nov. 4, 1952. Class 46.

579,648. Ventilating Fans, or Blowers. Indola N. V., Voorburg, Netherlands.
Filed Apr. 10, 1952, Serial No. 627,864. Published June 2, 1953. Class 34.

579,649. Sedative and Muscular Relaxant in Tablet Form. Schenley Laboratories, Inc., New York, N. Y.
Filed Apr. 11, 1952, Serial No. 627,966. Published June 16, 1953. Class 18.

579,650. Gun-Like Hypodermic Device for Veterinary Use. Mattox and Moore, Inc., Indianapolis, Ind.
Filed Apr. 17, 1952, Serial No. 628,218. Published June 2, 1953. Class 44.

579,651. Flat Asbestos-Cement Pallets for Use in Handling Materials, and Particularly for Supporting Concrete and Cinder Blocks During Steam Curing in Manufacture. Johns-Manville Corporation, New York, N. Y.
Filed Apr. 18, 1952, Serial No. 628,278. Published June 9, 1953. Class 50.

579,652. CONSOLIDATED CERTIFICATE. The Singer Manufacturing Company, Elizabeth, N. J.
Electronic Bonding Machines for Operation Upon Thermoplastic Dielectric Materials, Etc. Filed Apr. 23, 1952, Serial No. 628,557. Published May 12, 1953. Class 21.
Toy Sewing Machines. Filed Apr. 23, 1952, Serial No. 628,558. Published May 12, 1953. Class 22.
Family and Commercial Sewing Machines, Etc. Filed Apr. 23, 1952, Serial No. 628,559. Published June 2, 1953. Class 23.
Books, Pamphlets, Educational Leaflets, Catalogs, and Circulars. Filed Apr. 23, 1952, Serial No. 628,560. Published Apr. 7, 1953. Class 38.
Hand Sewing Needles. Filed Apr. 23, 1952, Serial No. 628,561. Published May 5, 1953. Class 40.

579,653. Resistors. Erie Resister Corporation, Erie, Pa.
Filed Apr. 25, 1952, Serial No. 628,683. Published June 16, 1953. Class 21.

579,654. Electrically Operated Vaporizing Unit for Volatile Materials. Home Maintenance Service, Inc., Hutchinson, Kans.
Filed Apr. 25, 1952, Serial No. 628,694. Published June 9, 1953. Class 21.

579,655. Infants', Children's, Boys', and Girls' Knit Outerwear—Namely, Boys' Knitted Suits, Boys' Shorts or Pants, Boys' Long Pants, and Slacks, Boys' and Girls' Jackets, Girls' Skirts and Blouses, Etc. Sanitary Knitting Company, Grand Rapids, Mich.
Filed Apr. 28, 1952, Serial No. 628,830. Published May 26, 1953. Class 39.

579,656. Endoscopic Instruments—Namely, Cystoscopes and Components Thereof. American Cystoscope Makers, Inc., New York, N. Y.
Filed Apr. 30, 1952, Serial No. 628,892. Published June 23, 1953. Class 44.

579,657. Endoscopic Instruments—Namely, Cysto-Urethroscopes, Urethroscopes, and Vaginascopes, and Components Thereof. American Cystoscope Makers, Inc., New York, N. Y.
Filed Apr. 30, 1952, Serial No. 628,893. Published June 23, 1953. Class 44.

579,658. Endoscopic Instruments—Namely, Forceps, Thoracoscopes, and Components Thereof. American Cystoscope Makers, Inc., New York, N. Y.
Filed Apr. 30, 1952, Serial No. 628,894. Published June 23, 1953. Class 44.

579,659. Endoscopic Instruments—Namely, Cystoscopes and Components Thereof. American Cystoscope Makers, Inc., New York, N. Y.
Filed Apr. 30, 1952, Serial No. 628,895. Published June 23, 1953. Class 44.

579,660. Endoscopic Instruments—Namely, Urethroscopes and Components Thereof; Forceps; Biopsy Specimen Punches; and Tractors. American Cystoscope Makers, Inc., New York, N. Y.
Filed Apr. 30, 1952, Serial No. 628,896. Published June 23, 1953. Class 44.

579,661. Endoscopic Instruments—Namely, Cystoscopes, Pan-Endoscopes, Urethroscopes, Visual Haemostatic Forceps and Components Thereof; Diathermic Knife and Coagulation Electrodes; and Bladder Evacuators. American Cystoscope Makers, Inc., New York, N. Y.
Filed Apr. 30, 1952, Serial No. 628,897. Published June 23, 1953. Class 44.

579,662. Endoscopic Instruments—Namely, Cystoscopes, Lithotriptoscopes, Urethroscopes, and Components Thereof. American Cystoscope Makers, Inc., New York, N. Y.
Filed Apr. 30, 1952, Serial No. 628,898. Published June 23, 1953. Class 44.

579,663. Endoscopic Instruments—Namely, Visual Prostatic Electrotomes and Components Thereof. American Cystoscope Makers, Inc., New York, N. Y.
Filed Apr. 30, 1952, Serial No. 628,900. Published June 23, 1953. Class 44.

579,664. Endoscopic Instruments—Namely, Procto-Sigmoidoscopes and Components Thereof. American Cystoscope Makers, Inc., New York, N. Y.
Filed Apr. 30, 1952, Serial No. 628,901. Published June 23, 1953. Class 44.

579,665. Endoscopic Instruments—Namely, Cystoscopes, Urethroscopes, Urethroscopic Posterior Tubes, and Lithotriptoscopes and Components Thereof. American Cystoscope Makers, Inc., New York, N. Y.
Filed Apr. 30, 1952, Serial No. 628,903. Published June 23, 1953. Class 44.

579,666. Men's Suits, Sportcoats, Slacks, Topcoats, Vests, and Overcoats. Pincus Bros. Incorporated, Philadelphia, Pa.
Filed May 2, 1952, Serial No. 629,121. Published May 26, 1953. Class 39.

579,667. Men's Suits, Sportcoats, Slacks, Topcoats, Vests, and Overcoats, Manufactured of Wool Shetlands, Wool Tweeds, and Cashmeres. Pincus Bros. Incorporated, Philadelphia, Pa.
Filed May 2, 1952, Serial No. 629,122. Published May 19, 1953. Class 39.

579,668. Perfumed Bath Water and Bath Salts; Body Deodorants; Dusting Powders; Face Creams, Lotions, and Powders; Hair Greases and Oils; Perfumes and Perfumed Oils, and Sachet Powders. Lucky Hand Company, Atlanta, Ga.
Filed May 6, 1952, Serial No. 629,246. Published June 9, 1953. Class 51.

579,669. Windows. Truscon Steel Company, Youngstown, Ohio, assignor to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey.
Filed May 6, 1952, Serial No. 629,266. Published June 9, 1953. Class 12.

579,670. Hypodermic Syringe for Parenteral Injections of Medicaments. Bristol Laboratories Inc., New York and Syracuse, N. Y.
Filed May 8, 1952, Serial No. 629,347. Published June 16, 1953. Class 44.

579,671. Adrenocorticotropic Hormone. Ciba Limited, Basel, Switzerland.
Priority under Sec. 44(d). Swiss Registration No. 140,921, filed Jan. 28, 1952.
Filed May 8, 1952, Serial No. 629,357. Published June 23, 1953. Class 18.

579,672. Knitted Piece Goods Made of Cotton, Linen, Silk, Wool, Ramie, and Synthetic Fibers. Ideal Mills, Inc., Poughkeepsie, N. Y.
Filed May 8, 1952, Serial No. 629,370. Published Dec. 23, 1952. Class 42.

579,673. Tiny Tot Toys Made of Wood and Plastic—Namely, Whirling Pegs, Etc. Jaymar Specialty Company, Brooklyn, N. Y.
Filed May 15, 1952, Serial No. 629,732. Published June 16, 1953. Class 22.

579,674. Tiny Tot Toys Made of Wood and Plastic—Namely, Whirling Pegs, Etc. Jaymar Specialty Company, Brooklyn, N. Y.
Filed May 15, 1952, Serial No. 629,733. Published June 16, 1953. Class 22.

579,675. Medicine as a Relief for Patients Suffering From Hay Fever, Rose Fever, Vasomotor Rhinitis, Acute Coryza, and Similar Ailments. Burl Laboratories, Inc., Beverly, N. J.
Filed May 17, 1952, Serial No. 629,835. Published June 16, 1953. Class 18.

579,676. Cologne Deodorant Stick. The House for Men, Inc., Chicago, Ill.
Filed May 19, 1952, Serial No. 629,895. Published June 9, 1953. Class 51.

579,677. Internal Combustion Engines. Sterling Engine Co., Buffalo, N. Y.
Filed May 19, 1952, Serial No. 629,920. Published May 26, 1953. Class 23.

579,678. Solvents and Solvent Mixtures Adapted for Use in Cosmetics, Toilet Preparations, Detergents, and Soaps. Dodge & Olcott, Inc., New York, N. Y.
Filed May 20, 1952, Serial No. 629,934. Published June 2, 1953. Class 6.

579,679. Electrical Treatment Machine for the Stimulation of Muscles by an Electric Current Applied Through Pad Electrodes. Medco Products Co., Tulsa, Okla.
Filed May 20, 1952, Serial No. 629,951. Published June 2, 1953. Class 44.

579,680. Lime for Construction Purposes. Diamond Springs Lime Company, San Francisco, Calif.
Filed May 21, 1952, Serial No. 629,990. Published June 9, 1953. Class 12.

579,681. Ladies' Raincoats and Ladies' Coats. Norman J. Lawrence, doing business as Lawrence of London, New York, N. Y.
Filed May 22, 1952, Serial No. 630,086. Published June 9, 1953. Class 39.

579,682. Television Antenna. Snyder Mfg. Co., Philadelphia, Pa.
Filed May 22, 1952, Serial No. 630,099. Published June 23, 1953. Class 21.

579,683. Automotive Vehicles of All Kinds—Namely, Passenger Cars, Etc. Van Doorne's Aanhangwagenfabriek N. V., Eindhoven, Netherlands.
Filed May 27, 1952, Serial No. 630,360. Published June 23, 1953. Class 19.

579,684. Auto-Motive Pistons and Machines for Expanding Automotive Pistons. Tom Killian, Inc., Denver, Colo.
Filed June 9, 1952, Serial No. 630,938. Published May 26, 1953. Class 23.

579,685. Electrical Insulating Plastic Sheet Material. Minnesota Mining and Manufacturing Company, St. Paul, Minn.
Filed June 9, 1952, Serial No. 630,944. Published June 23, 1953. Class 21.

579,686. Textile Machinery—Namely, Spinning Frames. Saco-Lowell Shops, Boston, Mass.
Filed June 10, 1952, Serial No. 631,024. Published May 26, 1953. Class 23.

579,687. Stockings for Use by Persons Having Varicose Veins. La Gaine Scandale, Lyon, France.
Filed June 14, 1952, Serial No. 631,210. Published June 23, 1953. Class 44.

579,688. Petroleum Wax Composition Containing Synthetic Rubber Adapted for Use in the Industrial Arts. Moore & Munger, New York, N. Y.
Filed June 14, 1952, Serial No. 631,215. Published May 19, 1953. Class 15.

579,689. Machines for Removing Grease From Metal Articles, Etc. Randall Manufacturing Company, Inc., New York, N. Y.
Filed June 17, 1952, Serial No. 631,311. Published May 26, 1953. Class 23.

579,690. Peat, Peat Moss, and Blended Potting Soil for Use in Growing Plants. Perry Peat Company, Morrice, Mich.
Filed June 18, 1952, Serial No. 631,374. Published June 9, 1953. Class 1.

579,691. Ladies' Hosiery. Chadbourn Hosiery Mills, Incorporated, Charlotte, N. C.
Filed June 20, 1952, Serial No. 631,467. Published May 26, 1953. Class 39.

579,692. Corrosion Inhibiting Anode Assemblies Consisting of One or More Anodes Mounted on a Holding Means Therefor and Component Parts for Said Assemblies. Robert E. McMahon, doing business as Sentinel Manufacturing Co., Seattle, Wash.
Filed June 20, 1952, Serial No. 631,489. Published June 9, 1953. Class 21.

579,693. De-Humidifiers for Individual Rooms. Weather Products Corporation, Providence and Warwick, R. I.
Filed June 20, 1952, Serial No. 631,512. Published June 9, 1953. Class 34.

579,694. Normal Saline Solution for Parenteral Injection. Baxter Laboratories, Inc., Morton Grove, Ill.
Filed June 21, 1952, Serial No. 631,532. Published Apr. 14, 1953. Class 18.

579,695. Fractional Horsepower Electric Motors. Getz Bros. & Co., San Francisco, Calif.
Filed June 21, 1952, Serial No. 631,555. Published June 16, 1953. Class 21.

579,696. Cotton Knit Underwear—Namely, Men's and Boys' Pants and Shorts. Rubin-Meltzer Company, New York, N. Y.
Filed June 21, 1952, Serial No. 631,579. Published June 9, 1953. Class 39.

579,697. Perfume, Toilet Water, Eau de Cologne. David E. Gothé, New York, N. Y.
Filed June 24, 1952, Serial No. 631,662. Published June 2, 1953. Class 51.

579,698. Women's and Children's Hosiery. Von Frankel-Trester Hosiery Co., Chicago, Ill.
Filed June 25, 1952, Serial No. 631,768. Published May 26, 1953. Class 39.

579,699. Acetic Acid, Benzoic Acid, Hydrochloric Acid, Etc. Tennessee Products & Chemical Corporation, Nashville, Tenn.
Filed July 11, 1952, Serial No. 632,456. Published June 23, 1953. Class 6.

579,700. Sponge Rubber Weatherstrip. Van Cleef Bros. Inc., Chicago, Ill.
Filed July 11, 1952, Serial No. 632,458. Published June 9, 1953. Class 12.

579,701. Men's and Boys' Waistband Overalls, Bib Overalls, Overall Jackets, Work and Utility Trousers, Work and Utility Shirts, One-Piece Work Suits, Service or Shop Coats, Blouses, Tool and Shop Aprons, and Shop and Uniform Caps. The H. D. Lee Company, Incorporated, Kansas City, Mo.
Filed July 12, 1952, Serial No. 632,482. Published May 26, 1953. Class 39.

579,702. Color Pigments for Use in the Manufacture of Paints and Inks. United Wallpaper, Inc., Chicago, Ill.
Filed July 16, 1952, Serial No. 632,639. Published June 23, 1953. Class 6.

579,703. Artificial Respiration Apparatus—Namely, Cuirasses Which Are Removably Attachable to the Body and Pumps for Rhythmically Varying the Pressure in the Cuirass To Induce Artificial Respiration. Conitech, Ltd., New York, N. Y.
Filed July 17, 1952, Serial No. 632,663. Published June 23, 1953. Class 44.

579,704. General Diagnostic X-Ray Power Tube and Control Units and General Diagnostic X-Ray Equipment for Medical and Surgical Use. Continental X-Ray Corporation, Chicago, Ill.
Filed July 19, 1952, Serial No. 632,773. Published June 2, 1953. Class 44.

579,705. Sun Lotion. Elizabeth Arden Sales Corporation, New York, N. Y.
Filed July 23, 1952, Serial No. 632,912. Published June 9, 1953. Class 51.

579,706. Laxative Powder and Preparations for the Treatment of Simple Neuralgia and Muscular Aches, Pains, Soreness, Stiffness, and Swellings. Lela S. Wier, doing business as Wonda Products Co., Jackson, Miss.
Filed July 24, 1952, Serial No. 633,025. Published June 23, 1953. Class 18.

579,707. Electrically Operated Oscillating Evaporative Room Cooler. Roberts Manufacturing Co., Cleburne, Tex.
Filed July 25, 1952, Serial No. 633,076. Published June 9, 1953. Class 34.

579,708. Device for Subcutaneous Implantation of Antibiotic-Containing Pellets Into Young Animals. Commercial Solvents Corporation, New York, N. Y.
Filed July 26, 1952, Serial No. 633,102. Published June 23, 1953. Class 44.

579,709. Soap. Nidia Botanical Garden, New York, N. Y.
Filed July 30, 1952, Serial No. 633,268. Published June 9, 1953. Class 52.

579,710. Artificial Teeth. American Porcelain Tooth Company Ltd., Nahlat Itzhak, near Tel-Aviv, Israel.
Filed July 31, 1952, Serial No. 633,293. Published June 2, 1953. Class 44.

579,711. Adhesives for Mending Broken Articles and the Like. Certofix Limited, Hull, England.
Filed Aug. 1, 1952, Serial No. 633,349. Published June 9, 1953. Class 5.

579,712. Liner for Artificial Dentures. Raymond O. Bartella, doing business as The Veldent Company, Los Gatos, Calif.
Filed Aug. 8, 1952, Serial No. 633,603. Published June 23, 1953. Class 44.

579,713. Theophylline Salt, Sold in Bulk Form for Processing Into Pharmaceutical Specialties. Chemo Puro Manufacturing Corporation, Long Island City, N. Y.
Filed Aug. 8, 1952, Serial No. 633,608. Published June 2, 1953. Class 18.

579,714. Non-Inflammable Cleaning Fluid. Slomons Laboratories, Inc., Long Island City, N. Y.
Filed Aug. 8, 1952, Serial No. 633,638. Published June 2, 1953. Class 52.

579,715. Plywood. Douglas Fir Plywood Association, Tacoma, Wash.
Filed Aug. 11, 1952, Serial No. 633,720. COLLECTIVE MARK. Published June 9, 1953. Class 12.

579,716. Charcoal Briquets. Ray Industries, Inc., Detroit, Mich., and Los Angeles, Calif.
Filed Aug. 11, 1952, Serial No. 633,735. Published June 2, 1953. Class 1.

579,717. Pneumatic Tires, Inner Tubes for Pneumatic Tires, and Repair and Treading Materials Therefor—Namely, Rubber Stock, Cord Fabrics, and Gums. The Armstrong Rubber Company, West Haven, Conn.
Filed Aug. 12, 1952, Serial No. 633,748. Published June 9, 1953. Class 35.

579,718. Household Aprons, Garment Pockets, and Children's Sun Suits. Kaydette Mfg. Corp., New York, N. Y.
Filed Aug. 12, 1952, Serial No. 633,772. Published June 2, 1953. Class 39.

579,719. Women's and Girls' Hats. Tiki Originals, New York, N. Y.
Filed Aug. 13, 1952, Serial No. 633,890. Published June 2, 1953. Class 39.

579,720. High Protein Food Supplement. Howard B. Bishop, doing business under the name Humanic Brands, Summit, N. J.
Filed Aug. 15, 1952, Serial No. 633,967. Published May 19, 1953. Class 18.

579,721. Children's Jackets, Coats, and Pants. Wm. Schwartz & Co., Inc., Philadelphia, Pa.
Filed Aug. 15, 1952, Serial No. 634,005. Published May 26, 1953. Class 39.

579,722. Musical Bird Calls. Roger W. Eddy, Newington, Conn.
Filed Aug. 16, 1952, Serial No. 634,035. Published June 23, 1953. Class 36.

579,723. Ladies' and Men's Pajamas. Lubin-Weeker Co., Inc., New York, N. Y.
Filed Aug. 16, 1952, Serial No. 634,048. Published June 9, 1953. Class 39.

579,724. Game of Skill Played With Individual Indicia Distinguished Pieces Similar to Dominoes. Frank Sachs, doing business as Dominettes Company, Detroit, Mich., assignor to Charles W. Neuschwanger, Detroit, Mich.
Filed Aug. 18, 1952, Serial No. 634,119. Published June 16, 1953. Class 22.

579,725. Perfumes and Toilet Goods—Namely, Toilet Waters, Face Powders, Bath Powders, Lipsticks, Rouge, Filled Compacts, and Nail Preparations for Manicuring Purposes. Neiman-Marcus Company, Dallas, Tex.
Filed Aug. 19, 1952, Serial No. 634,157. Published June 2, 1953. Class 51.

579,726. Linings of Resinous Character To Protect Metallic Surfaces, Particularly the Inner Surfaces of Metal Tanks, Against Corrosion. Fred H. Schaub Engineering Co., Chicago, Ill.
Filed Aug. 20, 1952, Serial No. 634,218. Published May 26, 1953. Class 12.

579,727. Antihistaminic, Anaesthetic, Antibiotic Water Soluble Cream. Premo Pharmaceutical Laboratories, Inc., South Hackensack, N. J.
Filed Aug. 22, 1952, Serial No. 634,338. Published Feb. 3, 1953. Class 18.

579,728. Navy Uniforms. Lovisi Bros., New York, N. Y.
Filed Aug. 23, 1952, Serial No. 634,376. Published May 26, 1953. Class 39.

579,729. Trout Bait Which Is in the Nature of a Food for Fish. Willard and Ware, Yakima, Wash.
Filed Aug. 23, 1952, Serial No. 634,389. Published June 16, 1953. Class 22.

579,730. Lacquer Type Parting Agent Used for the Release of Plastic Parts for Molds. Garan Chemical Corporation, Los Angeles, Calif.
Filed Aug. 25, 1952, Serial No. 634,406. Published June 2, 1953. Class 1.

579,731. Men's and Boys' Stockings. Joseph Black & Sons Company, York, Pa.
Filed Aug. 26, 1952, Serial No. 634,448. Published June 9, 1953. Class 39.

579,732. Ladies' and Misses' Hosiery. Troxler-Lynch Hosiery Company, Springfield, Ill.
Filed Aug. 29, 1952, Serial No. 634,667. Published June 9, 1953. Class 39.

579,733. Diamond Abrasive Compound. Irvin Waller, doing business as Waller Machine Products Co., Chicago, Ill.
Filed Aug. 30, 1952, Serial No. 634,718. Published June 2, 1953. Class 4.

579,734. Preparation for External Application for Relief From Insect Bites. Keith K. Bandy, doing business as Keith Laboratory, Cincinnati, Ohio.
Filed Sept. 2, 1952, Serial No. 634,726. Published June 9, 1953. Class 18.

579,735. Belts for Ladies, Young Ladies, and Children. Jonathan Belt Co. Incorporated, New York, N. Y.
Filed Sept. 3, 1952, Serial No. 634,788. Published May 26, 1953. Class 39.

579,736. Hand Soap. The Lambert Company, doing business as John Hudson Moore Co., Division of The Lambert Company, New York, N. Y., and Jersey City, N. J.
Filed Sept. 3, 1952, Serial No. 634,791. Published June 2, 1953. Class 52.

579,737. Metal Roof Frame Works. Rheinische Röhrenwerke Aktiengesellschaft, Mulheim an der Ruhr, Germany.
Filed Sept. 4, 1952, Serial No. 634,862. Published June 9, 1953. Class 12.

579,738. Infusion Sets. Mead Johnson & Company, Evansville, Ind.
Filed Sept. 8, 1952, Serial No. 634,986. Published June 16, 1953. Class 44.

579,739. Flexible Strips for Tying Pliable Bags. Visible Package Sales Corp., Chicago, Ill.
Filed Sept. 9, 1952, Serial No. 635,073. Published May 26, 1953. Class 7.

579,740. Ladies' Hosiery. Katie R. Gaubeart, York, Pa.
Filed Sept. 10, 1952, Serial No. 635,085. Published June 9, 1953. Class 39.

579,741. Hot Air Furnaces Simulating a Fireplace in Appearance. Raymond R. Dupler, Toledo, Ohio.
Filed Sept. 11, 1952, Serial No. 635,127. Published June 2, 1953. Class 34.

579,742. Potting Soil and Humus for House Plants. Charles E. Hullhorst, doing business as Chas. E. Hullhorst Co., Cleveland, Ohio.
Filed Sept. 16, 1952, Serial No. 635,308. Published June 9, 1953. Class 1.

579,743. Clothing—Namely, Women's and Misses' Hosiery, Dresses, and Suits; Also Men's and Boys' Hose, Dress Shirts, and Suits. Iselin-Jefferson Company, Inc., New York, N. Y.
Filed Sept. 16, 1952, Serial No. 635,310. Published May 19, 1953. Class 39.

579,744. Electrical Table Lamps, Pinup Lamps, Floor Lamps, and Boudoir Lamps. C. N. Burman Co., Paterson, N. J.
Filed Sept. 20, 1952, Serial No. 635,517. Published June 23, 1953. Class 21.

579,745. Fluid Control Valves, Not Being Parts of Machines. Apex (Trinidad) Oilfields, Limited, London, England.
Filed Sept. 16, 1952, Serial No. 635,572. Published June 9, 1953. Class 13.

579,746. Acetylcellulose in Sheets, Films, Rods, Tubes, Pulp, Fibers, and Fibrous Materials. Dr. Alexander Wacker Gesellschaft fur Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany, now by change of name Wacker-Chemie G. m. b. H.
Filed June 13, 1952, Serial No. 635,574. Published June 9, 1953. Class 1.

579,747. Women's Hosiery. Hanes Hosiery Mills Company, Winston-Salem, N. C.
Filed Sept. 22, 1952, Serial No. 635,594. Published May 26, 1953. Class 39.

579,748. Leather Dressing, Preservative, and Softening Composition. Manufacturing Laboratories, Inc., Boston, Mass.
Filed Sept. 22, 1952, Serial No. 635,602. Published June 16, 1953. Class 6.

579,749. Combined Boring and Facing Machines. George Richards & Company Limited, Broadheath, near Manchester, England.
Filed Sept. 24, 1952, Serial No. 635,719. Published May 26, 1953. Class 23.

579,750. Manganese Dioxide. American Metallic Chemicals Corp., New York, N. Y., and Portland, Oreg.
Filed Sept. 25, 1952, Serial No. 635,734. Published June 16, 1953. Class 6.

579,751. Scalp and Dandruff Preparation. Norma T. Kadechka, St. Louis Park, Minn., assignor to Lick, Inc., Minneapolis, Minn., a corporation of Minnesota.
Filed Sept. 25, 1952, Serial No. 635,770. Published June 2, 1953. Class 51.

579,752. Water-Insoluble Salt of Penicillin for the Treatment of Infectious Diseases. The Upjohn Company, Kalamazoo, Mich.
Filed Oct. 2, 1952, Serial No. 636,101. Published June 9, 1953. Class 18.

579,753. Adhesively Coated Paper Tape. Nashua Corporation, Nashua, N. H.
Filed Oct. 3, 1952, Serial No. 636,142. Published June 9, 1953. Class 5.

579,754. Chicken Chow Mein, Chow Mein Noodles, Etc. Chun King Sales, Inc., Duluth, Minn.
Filed Oct. 8, 1952, Serial No. 636,340. Published June 16, 1953. Class 46.

579,755. Grooved Phonograph Records. Alan Record Co., Inc., Boston, Mass.
Filed Oct. 9, 1952, Serial No. 636,401. Published June 16, 1953. Class 36.

579,756. WITHDRAWN.

579,757. Separate Screens for Straining Paint in Association With Spray Guns. John D. Yarnell, Edmonds, Wash.
Filed Oct. 13, 1952, Serial No. 636,668. Published June 9, 1953. Class 13.

579,758. Portable, Hand Supported Electric Tools—Namely, Drills, Screw Drivers, Etc. Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y.
Filed Oct. 16, 1952, Serial No. 636,710. Published June 23, 1953. Class 21.

579,759. Preparation for Removing Tarnish From Brass, Silver, and Copper. Arnold Sampson, doing business under the name and style of E-Z Est Products, Oakland, Calif.
Filed Oct. 16, 1952, Serial No. 636,740. Published June 9, 1953. Class 52.

579,760. Power Driven Boats Used Principally for Pleasure. Claude H. Turner, doing business under the style name of Atlanta Boat Works, Atlanta, Ga.
Filed Oct. 16, 1952, Serial No. 636,751. Published June 16, 1953. Class 19.

579,761. Hosiery for Women. Julius Kayser & Co., New York, N. Y.
Filed Oct. 18, 1952, Serial No. 636,852. Published June 9, 1953. Class 39.

579,762. Silver Cleaner. G. N. Coughlan Company, West Orange, N. J.
Filed Oct. 23, 1952, Serial No. 637,036. Published June 2, 1953. Class 52.

579,763. Packing—Namely, Pump Packing, Pump Cylinder Liner Packing, Valve Insert Packing, Packing Elements for Pump Pistons, Piston Rod Packing, and Gaskets. Mission Manufacturing Company, Houston, Tex.
Filed Oct. 23, 1952, Serial No. 637,068. Published June 23, 1953. Class 35.

579,764. Packing—Namely, Pump Packing, Pump Cylinder Liner Packing, Valve Insert Packing, Packing Elements for Pump Pistons, Piston Rod Packing, and Gaskets. Mission Manufacturing Company, Houston, Tex.
Filed Oct. 23, 1952, Serial No. 637,069. Published June 23, 1953. Class 35.

579,765. Lawn Hose. Quaker Rubber Corporation, Philadelphia, Pa.
Filed Oct. 23, 1952, Serial No. 637,084. Published June 9, 1953. Class 35.

579,766. Hot Air Conduits and Registers. Paul J. Thompson, doing business as Patco Mfg. Co., Philadelphia, Pa.
Filed Oct. 23, 1952, Serial No. 637,093. Published June 16, 1953. Class 34.

579,767. Hot Air Conduits and Registers. Paul J. Thompson, doing business as Patco Mfg. Co., Philadelphia, Pa.
Filed Oct. 23, 1952, Serial No. 637,094. Published June 2, 1953. Class 34.

579,768. Floor and Furniture Polish. S. C. Johnson & Son, Inc., Racine, Wis.
Filed Oct. 24, 1952, Serial No. 637,131. Published June 2, 1953. Class 4.

579,769. Floor Hinges, Door Hinges, Push Plates, Door Pulls, Pneumatic Door Closers, Door Holders, Door Braces, Door Guards, Door Chains, Surface Bolts, Drawer Pulls, Sash Lifts, Bar Lifts, Sash Locks, Window-Fasteners, and Closet Rods. The Shelby Spring Hinge Company, Shelby, Ohio.
Filed Oct. 25, 1952, Serial No. 637,195. Published June 9, 1953. Class 13.

579,770. Hosiery for Men and Women. Wm. B. Coleman Co., Incorporated, New Orleans, La.
Filed Oct. 27, 1952, Serial No. 637,242. Published June 9, 1953. Class 39.

579,771. Celluloee Gum. Hercules Powder Company, Wilmington, Del.
Filed Oct. 29, 1952, Serial No. 637,311. Published June 16, 1953. Class 1.

579,772. Combined Ultra-Violet and Infra Red Health Heat Lamp. Louis B. Modell, New York, N. Y.
Filed Oct. 30, 1952, Serial No. 637,386. Published June 2, 1953. Class 44.

579,773. Coal. Pittsburgh Consolidation Coal Company, Pittsburgh, Pa.
Filed Oct. 31, 1952, Serial No. 637,460. Published June 9, 1953. Class 1.

579,774. Synthetic Resins and Solutions Thereof. Reichhold Chemicals, Inc., Detroit, Mich.
Filed Nov. 6, 1952, Serial No. 637,721. Published June 23, 1953. Class 6.

579,775. Synthetic Resins and Solutions Thereof. Reichhold Chemicals, Inc., Detroit, Mich.
Filed Nov. 6, 1952, Serial No. 637,723. Published June 23, 1953. Class 6.

579,776. Combination Key Ring, Chain, and Emblem. Alex D. Karpoff, doing business as American Muffler Co., Boston, Mass.
Filed Nov. 13, 1952, Serial No. 637,996. Published June 9, 1953. Class 13.

579,777. Medicinal Preparation Useful as a Nasal Inhalant, Vasoconstrictor Agent, and/or Pressor Agent. Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc., a corporation of New Jersey.
Filed Nov. 13, 1952, Serial No. 638,017. Published June 9, 1953. Class 18.

579,778. Organic Acid Group Obtained by Ion Exchange From the Salt Formed in Reacting Redwood Bark With Sodium Sulphite. The Pacific Lumber Company, San Francisco, Calif.
Filed Nov. 17, 1952, Serial No. 638,211. Published June 16, 1953. Class 6.

579,779. Sodium Salt Formed by Reacting Redwood Bark With Sodium Sulphite. The Pacific Lumber Company, San Francisco, Calif.
Filed Nov. 17, 1952, Serial No. 638,212. Published June 16, 1953. Class 6.

579,780. Electric Fans. Lawrence M. Cohen, Greensboro, N. C.
Filed Nov. 19, 1952, Serial No. 638,289. Published June 23, 1953. Class 21.

579,781. Men's, Women's, and Children's Hosiery. U. B. Buchanan, New York, N. Y.
Filed Nov. 21, 1952, Serial No. 638,399. Published June 2, 1953. Class 39.

579,782. Men's, Women's, and Children's Hosiery. Chapman & Sons Hosiery Company, Shreveport, La.
Filed Nov. 21, 1952, Serial No. 638,401. Published June 2, 1953. Class 39.

579,783. Interior Decorative Wall Tile. Peerless Plastics, Culver City, Calif.
Filed Nov. 24, 1952, Serial No. 638,550. Published June 2, 1953. Class 12.

579,784. Storage Batteries. Willard Storage Battery Company, Cleveland, Ohio.
Filed Nov. 24, 1952, Serial No. 638,561. Published June 16, 1953. Class 21.

579,785. Jointing Material in Strip Form Made of Plastics. Duratube & Wire Limited, Feltham, Middlesex, England.
Filed Nov. 25, 1952, Serial No. 638,572. Published June 2, 1953. Class 12.

579,786. Witch Hazel Jelly, Hair Tonic, and Cologne Water. Kiefer-Stewart Company, Indianapolis, Ind.
Filed Nov. 25, 1952, Serial No. 638,588. Published June 2, 1953. Class 51.

579,787. Chemical Products for Use as Auxiliary Agents in the Textile Industry. Cassella Farbwerke Mainkur, Frankfurt am Main-Fechenheim, Germany.
Filed Nov. 28, 1952, Serial No. 638,691. Published June 23, 1953. Class 6.

579,788. Material in the Nature of Artificial Leather. The Firestone Tire & Rubber Company, Akron, Ohio.
Filed Nov. 28, 1952, Serial No. 638,708. Published June 9, 1953. Class 50.

579,789. Aluminum Oxide, a Mixture of Crystalline Form of Aluminum Oxide, Etc. Godfrey L. Cabot, Inc., Boston, Mass.
Filed Dec. 2, 1952, Serial No. 638,827. Published June 23, 1953. Class 6.

579,790. Cooking and Baking Utensils—Namely, Cake Pans, Biscuit Pans, Cookie Pans, Bread Pans, Muffin Pans, and Pie Pans. Chicago Metallic Mfg. Co., Chicago, Ill.
Filed Dec. 2, 1952, Serial No. 638,834. Published June 2, 1953. Class 13.

579,791. Bolts. The Colorado Fuel and Iron Corporation, Denver, Colo.
Filed Dec. 2, 1952, Serial No. 638,836. Published June 2, 1953. Class 13.

579,792. Anesthesia Administering Parts, i. e., Masks, Inhalator Tubes, and Re-Breathing Bags. Galleher, Incorporated, Cleveland, Ohio.
Filed Dec. 2, 1952, Serial No. 638,844. Published June 16, 1953. Class 44.

579,793. Ointment for Treating the Scalp and Promoting Hair Growth. Eugene Des Noyers, Branch Village, R. I.
Filed Dec. 4, 1952, Serial No. 638,949. Published May 19, 1953. Class 18.

579,794. Metal Tubing. General Motors Corporation, Detroit, Mich.
Filed Dec. 5, 1952, Serial No. 639,034. Published June 2, 1953. Class 13.

579,795. Sewing Machines and Parts Thereof and Attachments Therefor. Consolidated Sewing Machine Corp., New York, N. Y.
Filed Dec. 6, 1952, Serial No. 639,108. Published May 26, 1953. Class 23.

579,796. Lady's Stockings. Mojud Hosiery Co., Inc., Long Island City, N. Y.
Filed Dec. 6, 1952, Serial No. 639,140. Published June 2, 1953. Class 39.

579,797. Refined, Semi-Refined, and Unrefined Petroleum Oils and Fractions for Fuel, Power, Lighting, Heating, and Lubricating Purposes and Paraffin Waxes. Esso Standard Oil Company, Wilmington, Del., and New York, N. Y.
Filed Dec. 8, 1952, Serial No. 639,163. Published June 9, 1953. Class 15.

579,798. Home Permanent Waving Kits Consisting of Cold Wave Waving Lotion and End Papers. The Gillette Company, doing business under the name and style of The Toni Company, Boston, Mass.
Filed Dec. 9, 1952, Serial No. 639,221. Published June 23, 1953. Class 44.

579,799. Women's Hosiery. Phoenix Hosiery Company, Milwaukee, Wis.
Filed Dec. 11, 1952, Serial No. 639,339. Published June 9, 1953. Class 39.

579,800. Sedative and Hypnotic. Abbott Laboratories, North Chicago, Ill.
Filed Dec. 12, 1952, Serial No. 639,358. Published May 26, 1953. Class 18.

579,801. Medicinal Preparation for Parenteral Use as a Muscle Relaxant. Abbott Laboratories, North Chicago, Ill.
Filed Dec. 12, 1952, Serial No. 639,359. Published June 9, 1953. Class 18.

579,802. Sutures and Ligatures. Ethicon Suture Laboratories Incorporated, New Brunswick, N. J.
Filed Dec. 12, 1952, Serial No. 639,364. Published June 23, 1953. Class 44.

579,803. Anti-Histamine Preparation. Schering Corporation, Bloomfield, N. J.
Filed Dec. 18, 1952, Serial No. 639,718. Published June 9, 1953. Class 18.

579,804. Sedative Preparation Comprising a Combination of Pentobarbital Sodium and Pentylenetetrasol. Strong Cobb & Company, Inc., Cleveland, Ohio.
Filed Dec. 19, 1952, Serial No. 639,790. Published June 9, 1953. Class 18.

579,805. Sedative Preparation Comprising a Combination of Secobarbital Sodium and Pentylenetetrasol. Strong Cobb & Company, Inc., Cleveland, Ohio.
Filed Dec. 19, 1952, Serial No. 639,792. Published June 9, 1953. Class 18.

579,806. Electrical Motors, Electrical Generators, and Components Thereof. Electric Indicator Company, Inc., Stamford, Conn.
Filed Dec. 20, 1952, Serial No. 639,814. Published June 16, 1953. Class 21.

579,807. Conduits for Electrical Wiring. Winders & Geist, Inc., Lincoln, Nebr.
Filed Dec. 22, 1952, Serial No. 639,913. Published June 16, 1953. Class 21.

579,808. Medicinal Preparations Indicated in and for the Relief and Treatment of the Pathological Manifestations of Hemorrhoids (Piles). Duo-Way Pharmacal Corporation, New York, N. Y.
Filed Dec. 24, 1952, Serial No. 639,986. Published June 9, 1953. Class 18.

579,809. Cough Syrup. International Minerals & Chemical Corporation, Chicago, Ill.
Filed Dec. 24, 1952, Serial No. 639,996. Published June 9, 1953. Class 18.

579,810. Cuticle Nippers, Manicure Nipper Shears, Manicure Scissors, Cuticle Pushers, Nail Files, Toenail Nippers, Eyebrow Tweezers, and Blackhead Remover. The Wells Corporation, New York, N. Y.
Filed Dec. 24, 1952, Serial No. 640,025. Published June 23, 1953. Class 44.

579,811. Belting and Strap Leather for or as Belting. Charles Walker & Co. Limited, Swinegate, Leeds, England.
Filed Dec. 29, 1952, Serial No. 640,136. Published June 23, 1953. Class 35.

579,812. Belting and Strap Leather for or as Belting. Charles Walker & Co. Limited, Swinegate, Leeds, England.
Filed Dec. 29, 1952, Serial No. 640,137. Published June 23, 1953. Class 35.

579,813. Belting and Strap Leather for or as Belting. Charles Walker & Co. Limited, Swinegate, Leeds, England.
Filed Dec. 29, 1952, Serial No. 640,138. Published June 23, 1953. Class 35.

579,814. Medicinal Preparation Intended To Aid in the Treatment of Constipation. The Mara Laboratories, Inc., Harrison, N. J.
Filed Dec. 30, 1952, Serial No. 640,183. Published June 9, 1953. Class 18.

579,815. Medicine—Namely, a Barbiturate-Containing Sedative, Tranquillizer, and Muscle Relaxant. Reed & Carnrick, Jersey City, N. J.
Filed Jan. 5, 1953, Serial No. 640,360. Published June 16, 1953. Class 18.

579,816. Ureteral Forceps. American Cystoscope Makers, Inc., New York, N. Y.
Filed Jan. 6, 1953, Serial No. 640,372. Published June 23, 1953. Class 44.

579,817. Ureteral Stone Removing Forceps. American Cystoscope Makers, Inc., New York, N. Y.
Filed Jan. 6, 1953, Serial No. 640,373. Published June 23, 1953. Class 44.

579,818. Endoscopic Instruments—Namely, Procto-Sigmoidoscopes and Components Thereof, Surgical Snares, Surgical Forceps, and Variable Speculums. American Cystoscope Makers, Inc., New York, N. Y.
Filed Jan. 6, 1953, Serial No. 640,375. Published June 23, 1953. Class 44.

579,819. Biopsy Punches and Components Thereof and Surgical Electrodes for Use Therewith. American Cystoscope Makers, Inc., New York, N. Y.
Filed Jan. 6, 1953, Serial No. 640,376. Published June 23, 1953. Class 44.

579,820. Surgical Electrode Units for the Application of High Frequency Currents and the Introduction of Fluids to Body Passages. American Cystoscope Makers, Inc., New York, N. Y.
Filed Jan. 6, 1953, Serial No. 640,377. Published June 23, 1953. Class 44.

579,821. Surgical Electrodes. American Cystoscope Makers, Inc., New York, N. Y.
Filed Jan. 6, 1953, Serial No. 640,378. Published June 23, 1953. Class 44.

579,822. Surgical Electrodes. American Cystoscope Makers, Inc., New York, N. Y.
Filed Jan. 6, 1953, Serial No. 640,379. Published June 23, 1953. Class 44.

579,823. Endoscopic Instruments—Namely, Choledochoscopes, and Components Thereof, and Catheters. American Cystoscope Makers, Inc., New York, N. Y.
Filed Jan. 6, 1953, Serial No. 640,380. Published June 23, 1953. Class 44.

579,824. Endoscopic Instruments—Namely, Cystoscopes, and Components Thereof. American Cystoscope Makers, Inc., New York, N. Y.
Filed Jan. 6, 1953, Serial No. 640,381. Published June 23, 1953. Class 44.

579,825. Endoscopic Instruments—Namely, Urethroscopes and Urethroscopic Posterior Tubes, and Components Thereof. American Cystoscope Makers, Inc., New York, N. Y.
Filed Jan. 6, 1953, Serial No. 640,382. Published June 23, 1953. Class 44.

579,826. Bladder Evacuators. American Cystoscope Makers, Inc., New York, N. Y.
Filed Jan. 6, 1953, Serial No. 640,383. Published June 23, 1953. Class 44.

579,827. Endoscopic Instruments—Namely, Urethroscopes and Components Thereof. American Cystoscope Makers, Inc., New York, N. Y.
Filed Jan. 6, 1953, Serial No. 640,384. Published June 23, 1953. Class 44.

579,828. Endoscopic Instruments—Namely, Proctoscopes and Components Thereof, and Biopsy Forceps. American Cystoscope Makers, Inc., New York, N. Y.
Filed Jan. 6, 1953, Serial No. 640,385. Published June 23, 1953. Class 44.

579,829. Electric Table and Boudoir Lamps and Shades Therefor. June Lamp Manufacturing Company, Baltimore, Md.
Filed Jan. 7, 1953, Serial No. 640,461. Published June 23, 1953. Class 21.

579,830. Electric Table and Boudoir Lamps and Shades Therefor. June Lamp Manufacturing Company, Baltimore, Md.
Filed Jan. 7, 1953, Serial No. 640,462. Published June 23, 1953. Class 21.

579,831. Battery Charger Units, Rectifier Cells, Transformers, and Resistance Units, and Parts Thereof. Fansteel Metallurgical Corporation, North Chicago, Ill.
Filed Jan. 9, 1953, Serial No. 640,557. Published June 23, 1953. Class 21.

579,832. Elastic Roller Bandages. Harold L. Keiser, doing business as Medfoam Products Company, Fremont, Ohio.
Filed Jan. 12, 1953, Serial No. 640,636. Published June 23, 1953. Class 44.

579,833. Plastic Garden Hose. Apex Tire & Rubber Co., Pawtucket, R. I.
Filed Jan. 13, 1953, Serial No. 640,664. Published June 9, 1953. Class 35.

579,834. Packaged Set Containing a Measuring Jigger for Measuring Liquor in a Specific Quantity, and a Combination Ice Pick, Bottle Opener, Seal Breaker, Ice Crusher, Cork Screw, Muddler, and Measuring Jigger. Modern Sales Company, Los Angeles, Calif.
Filed Jan. 19, 1953, Serial No. 640,953. Published June 9, 1953. Class 50.

579,835. Denture Cushions. Tru-Aid Products Company, also known as Tru-Aid Products Co., Philadelphia, Pa.
Filed Jan. 21, 1953, Serial No. 641,103. Published June 23, 1953. Class 44.

579,836. Elastic Dental Impression Material. The L. D. Caulk Company, Milford, Del.
Filed Jan. 22, 1953, Serial No. 641,122. Published June 23, 1953. Class 44.

579,837. Lawn Hose and Conveyor Belting. Quaker Rubber Corporation, Philadelphia, Pa.
Filed Jan. 23, 1953, Serial No. 641,208. Published June 16, 1953. Class 35.

579,838. Coloring Dyes. Fred Fear & Co., Brooklyn, N. Y.
Filed Jan. 26, 1953, Serial No. 641,287. Published June 23, 1953. Class 6.

579,839. Dental and Medical Equipment Stands. Ritter Company, Inc., Rochester, N. Y.
Filed Jan. 28, 1953, Serial No. 641,466. Published June 23, 1953. Class 44.

579,840. Plastic Hose. Quaker Pacific Rubber Company, San Francisco, Calif.
Filed Feb. 16, 1953, Serial No. 642,302. Published June 23, 1953. Class 35.

579,841. Dentifrice. The Lambert Company, St. Louis, Mo.
Filed Feb. 24, 1953, Serial No. 642,666. Published June 23, 1953. Class 51.

579,842. Fiber Packing for Steam and Hydraulic Purposes. Henry Crossley (Packings) Limited, Bolton, England.
Filed Mar. 2, 1953, Serial No. 642,952. Published June 9, 1953. Class 35.

579,843. Toy Pistol. Louis Marx & Co., Inc., New York, N. Y.
Filed Feb. 20, 1953, Serial No. 643,396. Published June 23, 1953. Class 22.

579,844. Tapioca Flour. Stein, Hall & Company, Inc., New York, N. Y.
Filed Mar. 10, 1953, Serial No. 643,440. Published June 16, 1953. Class 46.

579,845. Bicycles of the Adult Type. Wheel Goods Corporation, Minneapolis, Minn.
Filed Mar. 12, 1953, Serial No. 643,576. Published June 23, 1953. Class 19.

579,846. Bicycles of the Adult Type. Wheel Goods Corporation, Minneapolis, Minn.
Filed Mar. 12, 1953, Serial No. 643,577. Published June 23, 1953. Class 19.

579,847. House Trailers. Mid-States Corp., Monrovia, Calif., Union City, Mich., and Chicago, Ill.
Filed Mar. 16, 1953, Serial No. 643,698. Published June 23, 1953. Class 19.

579,848. House Trailers. Mid-States Corp., Monrovia, Calif., Union City, Mich., and Chicago, Ill.
Filed Mar. 16, 1953, Serial No. 643,700. Published June 23, 1953. Class 19.

579,849. Doll Clothing. C & F Doll Fashions, Owensboro, Ky.
Filed Apr. 1, 1953, Serial No. 644,540. Published June 16, 1953. Class 22.

579,850. Toy Hand Puppets. Rootie Kazootie, Inc., New York, N. Y.
Filed Apr. 3, 1953, Serial No. 644,689. Published June 16, 1953. Class 22.

579,851. Bowling Pins. Monumental Manufacturing Corporation, Hanover, Pa.
Filed Apr. 6, 1953, Serial No. 644,773. Published June 16, 1953. Class 22.

579,852. Bowling Pins. Monumental Manufacturing Corporation, Hanover, Pa.
Filed Apr. 6, 1953, Serial No. 644,774. Published June 16, 1953. Class 22.

Service Marks

579,853. Tank Cleaning Service and Renting of Machines for Tank Cleaning. Butterworth System, Incorporated, Bayonne, N. J.
Filed Dec. 16, 1949, Serial No. 589,423. Published June 16, 1953. Class 103.

579,854. Radio Broadcasting Services. Mutual Broadcasting System, Inc., New York, N. Y.
Filed Apr. 10, 1951, Serial No. 612,468. Published June 16, 1953. Class 104.

579,855. Providing Welfare and Social Services to Veterans in Hospitals, and to Marines, Former Marines and Their Families, Etc. Tun Tavern Detachment, Marine Corps League, Philadelphia, Pa.
Filed June 19, 1952, Serial No. 631,450. Published June 16, 1953. Class 100.

579,856. Stimulating in Its Members an Interest in Charity, Good Fellowship, and Patriotism. The Grand Order of the Sword of Bunker Hill, Olney, Ill.
Filed Oct. 14, 1952, Serial No. 636,592. Published June 16, 1953. Class 100.

579,857. Treating Rayon and Acetate Suiting Fabrics of Others To Impart Spot Resistant, Wrinkle Resistant, and Water Repellent Finishes Thereto. R. W. Bates Piece Dye Works, Inc., Garnerville, N. Y.
Filed Nov. 6, 1952, Serial No. 637,697. Published June 16, 1953. Class 106.

579,858. Entertainment Services in the Nature of Basketball Exhibitions. A. M. Saperstein, Chicago, Ill.
Filed Dec. 19, 1952, Serial No. 639,783. Published June 16, 1953. Class 107.

Collective Marks

579,859. Repairing Jewelry and Mounting Precious Stones and Gems in Settings. American Gem Society, Los Angeles, Calif.
Filed Jan. 26, 1948, Serial No. 547,960. Published June 16, 1953. Class 103.

579,860. Plywood. Douglas Fir Plywood Association, Tacoma, Wash.
Filed Mar. 14, 1952, Serial No. 626,448. Published June 2, 1953. Class 12.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

579,861. (Class 34. Heating, Lighting, and Ventilating Apparatus.) Wind-O-Brik Corporation, Chicago, Ill. Original filed, act of 1946, Principal Register, Oct. 30, 1947; amended to application, Supplemental Register, Apr. 17, 1953, Serial No. 540,754.

WIND-O-BRIK

For Ventilator Units in the Form of a Glass Brick and Particularly Designed for Use in Conjunction With Glass Brick Walls.
Claims use since July 24, 1947.

579,862. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) The Union Fork and Hoe Company, Columbus, Ohio. Original filed, act of 1946, Principal Register, Sept. 17, 1948; amended to application, Supplemental Register, Mar. 24, 1953, Serial No. 565,388.

Bonded

For Hand-Operated Field, Garden, and Lawn Tools—Namely, Axes, Cultivators, Weed and Sod Cutters, Drags, Lawn Edgers, Forks, Hoes, Rakes, Scoops, Scrapers, Shovels, Trowels, Weeders, and Tool Handles and Parts Thereof.
Claims use since April 1948.

579,863. (Class 34. Heating, Lighting, and Ventilating Apparatus.) Bell & Gossett Company, Morton Grove, Ill. Original filed, act of 1946, Principal Register, Nov. 30, 1948; amended to application, Supplemental Register, Jan. 2, 1953, Serial No. 569,594.

AIR-TANKLESS

For Water Heater of the Tankless Type Arranged To Trap Air in the Casing Thereof When Connected to a Closed Hot Water Heating System.
Claims use since Mar. 31, 1948.

579,864. (Class 34. Heating, Lighting, and Ventilating Apparatus.) Dominion Foundry Company, Winnipeg, Manitoba, Canada. Original filed, act of 1946, Principal Register. July 19, 1950; amended to application, Supplemental Register, July 30, 1951, Serial No. 600,881.

BOOKER

The drawing is lined for red and gold. The representation of the stove is disclaimed. Applicant claims ownership of Canadian Registration No. N. S. 34/265, dated Jan. 23, 1950.
For Coal Burning Furnaces.

579,865. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Lancaster Engineering Corporation, Lancaster, Pa. Original filed, act of 1946, Principal Register, Nov. 21, 1950; amended to application, Supplemental Register, May 1, 1953, Serial No. 606,710.

FEED-U-NIT

For Machines for Grinding or Mixing Cattle Feed.
Claims use since Feb. 2, 1949.

579,866. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Lancaster Engineering Corporation, Lancaster, Pa. Original filed, act of 1946, Principal Register, Nov. 21, 1950; amended to application, Supplemental Register, May 1, 1953, Serial No. 606,712.

MILL-U-NIT

For Machine for Grinding or Mixing Cattle Feed.
Claims use since Nov. 10, 1949.

579,867. (Class 50. Merchandise Not Otherwise Classified.) James Manufacturing Company, Fort Atkinson, Wis. Filed Feb. 8, 1951, Serial No. 609,802.



For Poultry Feeders.
Claims use since Feb. 1, 1949.

579,868. (Class 21. Electrical Apparatus, Machines, and Supplies.) Albert Louis Smith, doing business as Smith Tape Recording Co., Abilene, Tex. Original filed, act of 1946, Principal Register, June 8, 1951; amended to application, Supplemental Register, Mar. 20, 1953, Serial No. 614,962.

"Listen to the Stars"

For Magnetic Recording Tape With Sound Recordings Thereon for Sound Recording Machines.
Claims use since June 15, 1948.

579,869. (Class 46. Foods and Ingredients of Foods.) The Chicago Dietetic Supply House, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, June 27, 1951; amended to application, Supplemental Register, June 9, 1953, Serial No. 615,755.

LICK-A-LOTS

For Assorted Candy Suckers.
Claims use since June 1, 1951.

579,870. (Class 34. Heating, Lighting, and Ventilating Apparatus.) Dijam Enterprises Inc., doing business as Marvin Manufacturing Company, Los Angeles, Calif. Original filed, act of 1946, Principal Register, July 21, 1951; amended to application, Supplemental Register, Apr. 14, 1953, Serial No. 616,763.

MARCO

For Ventilating Fans and Blowers.
Claims use since Dec. 1, 1946.

579,871. (Class 46. Foods and Ingredients of Foods.) Pillsbury Mills, Inc., Minneapolis, Minn. Original filed, act of 1946, Principal Register, Sept. 4, 1951; amended to application, Supplemental Register, July 6, 1953, Serial No. 618,366.

MIN-IT-DIP

For Farinaceous Mix To Be Used in Coating or Breading Pieces of Meat, Poultry, Fish or the Like Preparatory to Frying.
Claims use since Feb. 24, 1951.

579,872. (Class 18. Medicines and Pharmaceutical Preparations.) Sanford Sales Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 10, 1951; amended to application, Supplemental Register, June 26, 1953, Serial No. 619,852.

If You Need One... Get a Good One!

Dr. Sanford's Laxative
ESTABLISHED 1946

For Cathartic and Laxative Preparation.
Claims use since August 1951.

579,873. (Class 46. Foods and Ingredients of Foods.) Washington Co-Operative Farmers Association, Seattle, Wash. Original filed, act of 1946, Principal Register, Nov. 3, 1951; amended to application, Supplemental Register, Apr. 13, 1953, Serial No. 620,865.

MORBREST

For Dressed Turkeys (New York Dressed or Packaged, Eviscerated, Ready-to-Cook Whole Turkeys).
Claims use since Oct. 18, 1951.

579,874. (Class 46. Foods and Ingredients of Foods.) Zion Industries, Inc., Zion, Ill. Original filed, act of 1946, Principal Register, Nov. 14, 1951; amended to application, Supplemental Register, June 24, 1953, Serial No. 621,244.

SNAK-PAK

For Candies.
Claims use since July 30, 1951.

579,875. (Class 1. Raw or Partly Prepared Materials.) Acme Limestone Company, Fort Spring, W. Va. Filed Nov. 30, 1951, Serial No. 621,851.



For Finely Ground High Calcium Limestone Used in Spraying Coal Mines To Prevent Explosions.
Claims use since Mar. 15, 1949.

579,876. (Class 46. Foods and Ingredients of Foods.) The Goyer Company, Greenville, Miss. Original filed, act of 1946, Principal Register, Feb. 18, 1952; amended to application, Supplemental Register, Mar. 17, 1953, Serial No. 625,102.

OLD ORLEANS

For Coffee, With Chicory.
Claims use since Sept. 10, 1951.

579,877. (Class 36. Musical Instruments and Supplies.) Scherl & Roth, Inc., Cleveland, Ohio. Original filed, act of 1946, Principal Register, Mar. 19, 1952; amended to application, Supplemental Register, July 14, 1953, Serial No. 626,702.

E. R. Pfretzschner

The name "E. R. Pfretzschner" does not refer to any particular living individual.
For Violas, Cellos, and String Basses.
Claims use since 1950.

579,878. (Class 21. Electrical Apparatus, Machines, and Supplies.) Vitalic Battery Company, Inc., Dallas, Tex. Filed Apr. 2, 1952, Serial No. 627,477.

Climatic Plate

For Storage Batteries.
Claims use since July 1933.

579,879. (Class 34. Heating, Lighting, and Ventilating Apparatus.) Victrylite Candle Company, Oshkosh, Wis. Original filed, act of 1946, Principal Register, Apr. 23, 1952; amended to application, Supplemental Register, Apr. 17, 1953, Serial No. 628,589.

MOSKEETO-LITES

For Candle-Holding Receptacles With a Candle in Each.
Claims use since Apr. 3, 1952.

579,880. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Globe Hoist Company, Des Moines, Iowa. Original filed, act of 1946, Principal Register, May 24, 1952; amended to application, Supplemental Register, May 7, 1953, Serial No. 630,191.

OiLIFT

For Stationary Hydraulic Automobile Hoist.
Claims use since May 5, 1952.

579,881. (Class 46. Foods and Ingredients of Foods.) Finder Meat Company, New York and Forest Hills, N. Y. Original filed, act of 1946, Principal Register, June 25, 1952; amended to application, Supplemental Register, Apr. 22, 1953, Serial No. 631,729.



The drawing is lined for the color red but no claim is made as to the color named.
For Salami.
Claims use since Apr. 5, 1952.

579,882. (Class 46. Foods and Ingredients of Foods.) Wass Food Products, Chicago, Ill. Original filed, act of 1946, Principal Register, Aug. 30, 1952; amended to application, Supplemental Register, Mar. 24, 1953, Serial No. 634,719.

"Just Right With a Mild Bite"

For Barbecue Sauce.
Claims use since Mar. 3, 1952.

579,883. (Class 34. Heating, Lighting, and Ventilating Apparatus.) American Machine and Metals, Inc., New York, N. Y. Filed Sept. 20, 1952, Serial No. 635,514.

FAN-PAC

Applicant claims ownership of Registration No. 427,633.
For Wall Ventilating Fans, Stock Barn Fans, Poultry House Fans, Attic Fans, and Replacement Parts Therefor.
Claims use since Apr. 18, 1946.

579,884. (Class 51. Cosmetics and Toilet Preparations.) Rimmel, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 14, 1952; amended to application, Supplemental Register, June 12, 1953, Serial No. 638,104.

GOLDEN FERN

For Hand Lotion, Toilet Water, Eau de Cologne, Dusting Powder, Deodorant Sticks, and Cologne Sticks.
Claims use since Aug. 6, 1951.

579,885. (Class 46. Foods and Ingredients of Foods.) C. M. Grubbs, doing business as Mrs. Grubbs Potato Chip Company, Fort Worth, Tex. Filed Mar. 6, 1953, Serial No. 643,224.



The drawing is lined for red and blue colors. The words "Potato Chips" are disclaimed apart from the mark.
For Golden Hued Potato Chips Fried in Vegetable Oil and Salted.
Claims use since Jan. 1, 1927.

Service Marks

579,886. (Class 101. Advertising and Business.) Warren F. Burlingame, Boston, Mass., by assignment and change of name from Formula Plan Investment Management Corp. Original filed, act of 1946, Principal Register, Nov. 13, 1947; amended to application, Supplemental Register, June 22, 1953, Serial No. 540,991.

FORMULA PLAN

For Furnishing Statistical Reports on the Prices of Securities.
Claims use since on or about June 13, 1947.

579,887. (Class 106. Material Treatment.) The Electrolizing Corporation, Providence, R. I., by change of name from Electrolized Tap Corporation. Original filed, act of 1946, Principal Register, Feb. 4, 1950; amended to application, Supplemental Register, Oct. 30, 1952, Serial No. 591,979.

ELECTROLIZED

For Electrolytically Treating Metal Working Tools To Harden the Surfaces Thereof.
Claims use since Mar. 1, 1946.

TRADE-MARK REGISTRATIONS RENEWED

40,572. REPRESENTATION OF LETTER "A" CROSSED BY THREE WAVY LINES. Registered June 9, 1903. Aktieselskabet Aluminia. Re-renewed June 9, 1953, to Aktieselskabet Fajancefabriken Aluminia, Copenhagen, Denmark, a corporation organized under the laws of Denmark. Delftware and Chinaware of All Kinds. Class 30.

91,909. "SOFT-LITE" AND DESIGN. Registered June 3, 1913. Morris Singer. Re-renewed June 3, 1953, to Soft-Lite Lens Company, Inc., New York, N. Y., a corporation of New York. Actinometers, Altimeters, Altiscopes, Anemometers, Etc. Class 26.

92,088. VERACOLATE. Registered June 17, 1913. The Marcy Company, Boston, Mass. Re-renewed June 17, 1953, to Standard Laboratories, Inc., New York, N. Y., a corporation of Delaware. Cholagogue. Class 18.

92,596. "STIFEL" AND DESIGN. Registered July 15, 1913. J. L. Stifel & Sons, Wheeling, W. Va. Re-renewed July 15, 1953, to J. L. Stifel & Sons, Inc., Wheeling, W. Va., and New York, N. Y., a corporation of West Virginia. Cotton Piece Goods. Class 42.

92,732. VIOFORM. Registered July 22, 1913. Society of Chemical Industry in Basle, Basel, Switzerland. Re-renewed July 22, 1953, to Ciba Pharmaceutical Products, Inc., Summit, N. J., a corporation of New Jersey. Pharmaceutical Product Viz. Iodochloroxyquinolin and Suitable To Be Employed as a Substitute for Iodoform. Class 18.

92,820. "RED DRAGON" AND DESIGN. Registered July 29, 1913. New Prague Flouring Mill Company, New Prague, Minn. Re-renewed July 29, 1953, to International Milling Company, Minneapolis, Minn., a corporation of Delaware. Wheat-Flour. Class 46.

93,009. OREO. Registered Aug. 12, 1913. National Biscuit Company, Jersey City, N. J., and New York, N. Y. Re-renewed Aug. 12, 1953, to National Biscuit Company, New York, N. Y., a corporation of New Jersey. Biscuit. Class 46.

93,417. WHEATSWORTH. Registered Sept. 16, 1913. F. H. Bennett Biscuit Company. Re-renewed Sept. 16, 1953, to National Biscuit Company, New York, N. Y., a corporation of New Jersey. Wheat-Flour, Biscuit and Crackers, Cereal Breakfast Foods, and Infants' Foods. Class 46.

93,442. KOH-I-NOOR. Registered Sept. 16, 1913. L. & C. Hardtmuth, Vienna and Budweis, Austria-Hungary. Re-renewed Sept. 16, 1953, to L. & C. Hardtmuth, Inc., Bloomsbury, N. J., a corporation of New Jersey. Fountain-Pens and Nibs Therefor. Class 37.

93,468. KNIGHTHOOD. Registered Sept. 16, 1913. Geo. W. Sanborn & Son, Astoria, Oreg. Re-renewed Sept. 16, 1953, to Alaska Pacific Salmon Company, Seattle, Wash., a corporation of Nevada. Canned Salmon. Class 46.

93,613. PRESCOTT SPINNER. Registered Sept. 30, 1913. Charles H. Stapf, Prescott, Wis. Re-renewed Sept. 30, 1953, to Prescott Spinner Manufacturing Co., St. Paul, Minn., a copartnership. Fish-Hooks. Class 22.

94,058. "DIAMOND BRAND" AND DESIGN. Registered Nov. 4, 1913. J. F. Carter Company, Portland, Maine, and Beverly, Mass. Re-renewed Nov. 4, 1953, to A. J. Tower Company, Boston, Mass., a corporation of Massachusetts. Oiled Clothing. Class 39.

94,311. BITES. Registered Nov. 25, 1913. National Biscuit Company, Jersey City, N. J., and New York, N. Y. Re-renewed Nov. 25, 1953, to National Biscuit Company, New York, N. Y., a corporation of New Jersey. Biscuit. Class 46.

94,313. PANTRY. Registered Nov. 25, 1913. National Biscuit Company, Jersey City, N. J., and New York, N. Y. Re-renewed Nov. 25, 1953, to National Biscuit Company, New York, N. Y., a corporation of New Jersey. Biscuit. Class 46.

301,205. RUMORS. Registered Feb. 21, 1933. Good Humor Corporation of America, Cleveland, Ohio. Renewed Feb. 21, 1953, to Good Humor Corporation, Brooklyn, N. Y., a corporation of New York. Periodicals. Class 38.

301,515. OVATION. Registered Mar. 7, 1933. B-Z-B Knitting Co. Renewed Mar. 7, 1953, to Robert Z. Boehmen, doing business as Manikin Hosiery Co., Rockford, Ill. Hosiery. Class 39.

301,936. REPRESENTATION OF PORTION OF SPRING FRAME. Registered Mar. 21, 1933. United States Bedding Company, St. Paul, Minn., a corporation of Minnesota. Renewed Mar. 21, 1953. Bed Springs. Class 32.

303,711. "CAROLINA CLUB" AND DESIGN. Registered June 6, 1933. Chas. F. Cates & Sons, Inc., Faison, N. C., a corporation of North Carolina. Renewed June 6, 1953. Pickles, Fruit Preserves, Sweet and Sour Relish, Honey. Class 46.

303,762. SPRING MAID. Registered June 6, 1933. Mandel & Cohen, New York, N. Y. Renewed June 6, 1953, to The Springs Cotton Mills, Lancaster, S. C., a corporation of South Carolina. Coats, Suits, Skirts, Hats, Etc. Class 39.

303,943. BEE B LINE. Registered June 13, 1933. Bee Line Manufacturing Company. Renewed June 13, 1953, to Bee-Line Company, Davenport, Iowa, a firm. Automobile Frame Straighteners, Lifting Jacks, and Axle and Wheel Straightening Presses. Class 23.

304,033. YARDLEY'S. Registered June 20, 1933. Yardley & Company Limited, London, England, a company organized under the laws of Great Britain and Northern Ireland. Renewed June 20, 1953. Face Powders, and Face Creams. Class 51.

304,066. REPRESENTATION OF GRATE. Registered June 20, 1933. Robert S. Waters and William G. Heiner, receivers for The National Radiator Corporation. Renewed June 20, 1953, to The National Radiator Company, Johnstown, Pa., a corporation of Maryland. Heat Exchange Apparatus in the Form of Hollow Cast Metal Sections Adapted To Be Connected Together To Form Units. Class 34.

304,232. PARKDALE. Registered June 27, 1933. Apple Growers Association, Hood River, Oreg., a corporation of Oregon. Renewed June 27, 1953. Canned Fruit. Class 46.

304,242. "WALKER'S LONDON DRY GIN" AND DESIGN. Registered June 27, 1933. Hiram Walker & Sons, Limited, Walkerville, Ontario, Canada. Renewed June 27, 1953, to Hiram Walker & Sons Inc., Peoria, Ill., a corporation of Michigan. Gin. Class 49.

304,243. WALKER'S OLD RYE. Registered June 27, 1933. Hiram Walker & Sons, Limited, Walkerville, Ontario, Canada. Renewed June 27, 1953, to Hiram Walker & Sons Inc., Peoria, Ill., a corporation of Michigan. Whisky. Class 49.

304,244. WALKER'S AMERICAN RYE WHISKY. Registered June 27, 1933. Hiram Walker & Sons, Limited, Walkerville, Ontario, Canada. Renewed June 27, 1953, to Hiram Walker & Sons Inc., Peoria, Ill., a corporation of Michigan. Whisky. Class 49.

304,386. "BETTY ROSE" AND DESIGN. Registered July 4, 1933. Stern-Siegman Prins Company, Kansas City, Mo., a corporation of Missouri. Renewed July 4, 1953. Women's and Girls' Coats. Class 39.

304,721. KAR KIT. Registered July 18, 1933. Clark Tructractor Company, Buchanan, Mich. Renewed July 18, 1953, to Mechanical Handling Systems, Inc., Detroit, Mich., a corporation of Michigan. Conveying Apparatus of the Spiral or Helicoid Tube Type and Parts Thereof. Class 23.

304,753. TU-NOODLES. Registered July 18, 1933. Westgate Sea Products Company. Renewed July 18, 1953, to Westgate-California Tuna Packing Company, San Diego, Calif., a corporation of California. Canned Food Product, Comprising Tuna Fish and Noodles. Class 46.

304,801. REPRESENTATION OF PORTRAIT OF CHILD. Registered July 18, 1933. A. S. Wilkin, Limited, Newcastle-upon-Tyne, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Renewed July 18, 1953. Assortments of Sweetmeats — Namely, Toffees, Chocolates, Caramels, and Nougats. Class 46.

305,165. REPRESENTATION OF FISHING ROD LINED FOR RED. Registered Aug. 8, 1933. James Heddon's Sons, Dowagiac, Mich., a corporation of Michigan. Renewed Aug. 8, 1953. Fishing Rods. Class 22.

305,183. SILVER STREAK. Registered Aug. 8, 1933. Bissell Carpet Sweeper Company, Grand Rapids, Mich., a corporation of Michigan. Renewed Aug. 8, 1953. Carpet Sweepers and Parts Thereof. Class 23.

305,781. "HOMESTEAD" AND DESIGN. Registered Aug. 22, 1933. Lily Mill and Power Company. Renewed Aug. 22, 1953, to Lily Mills Company, Shelby, N. C., a corporation of North Carolina. Sewing Thread. Class 43.

305,785. "SCREEN STAR" ETC. AND DESIGN. Registered Aug. 22, 1933. Sta-Rite Hair Pin Company. Renewed Aug. 22, 1953, to Sta-Rite Ginnie-Lou, Inc., Shelbyville, Ill., a corporation of Delaware. Hairpins, Not Made of Precious Metal. Class 40.

305,804. LACTRON. Registered Aug. 22, 1933. United States Rubber Products, Inc. Renewed Aug. 22, 1953, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Rubber Thread. Class 43.

305,946. "ARISTOCRAT CUTLERY" ETC. AND DESIGN. Registered Aug. 29, 1933. McCrory Stores Corporation, New York, N. Y., a corporation of Delaware. Renewed Aug. 29, 1953. Cutlery—Namely, Knives Made of Base Metal. Class 23.

305,947. ARISTOCRAT. Registered Aug. 29, 1933. McCrory Stores Corporation, New York, N. Y., a corporation of Delaware. Renewed Aug. 29, 1953. Cutlery—Namely, Knives Made of Base Metal. Class 23.

306,005. FRITOS. Registered Aug. 29, 1933. Daisy D. Doolin, doing business as Frito Company, San Antonio, Tex. Renewed Aug. 29, 1953, to The Frito Company, Dallas, Tex., a corporation of Texas. Cakes. Class 46.

306,146. "POOL'S INTERURBAN SPECIAL" AND DESIGN. Registered Sept. 12, 1933. Pool Manufacturing Company, Sherman, Tex., a corporation of Texas. Renewed Sept. 12, 1953. Overalls, Jumpers, Trousers, One Piece Suits, Work Shirts, Etc. Class 39.

306,247. ENSIGN. Registered Sept. 12, 1933. Gillette Rubber Company, Eau Claire, Wis. Renewed Sept. 12, 1953, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Bicycle Tires and Tubes. Class 35.

306,290. CAL-BADEN. Registered Sept. 12, 1933. Augustus H. Gregg, doing business as Cal-Baden Mineral Water. Renewed Sept. 12, 1953, to Isabel C. Gregg, Whittier, Calif. Mineral Water. Class 45.

306,323. SUPERDRAW. Registered Sept. 12, 1933. American Sheet and Tin Plate Company. Renewed Sept. 12, 1953, to United States Steel Corporation, Pittsburgh, Pa., a corporation of New Jersey. Sheets and Plates—Namely, Tin and Terne Plates. Class 14.

306,339. BEST & CO. Registered Sept. 19, 1933. Best & Co. Inc., New York, N. Y., a corporation of New York. Renewed Sept. 19, 1953. Toys, Games, and Sporting Goods—Namely, Dolls, Rubber Balls, Etc. Class 22.

306,508. BOYISHOE. Registered Sept. 19, 1933. The Juvenile Shoe Corporation of America, Aurora and St. Louis, Mo. Renewed Sept. 19, 1953, to The Juvenile Shoe Corporation of America, Aurora, Mo., a corporation of Missouri. Shoes and Slippers of Leather or Kid. Class 39.

306,550. ATLANTIC. Registered Sept. 26, 1933. McLaurin-Jones Co., Brookfield, Mass., a corporation of Massachusetts. Renewed Sept. 26, 1953. Gummed Tape. Class 5.

306,764. SILVER MINE. Registered Sept. 26, 1933. Dickinson & Co., Chicago and Eureka, Ill. Renewed Sept. 26, 1953, to Dickinson & Co., Chicago, Ill., a corporation of Illinois. Canned Vegetables. Class 46.

307,087. SYMPHONETTE. Registered Oct. 17, 1933. Frances Sheehy, Portland, Oreg. Renewed Oct. 17, 1953, to Longines-Wittnauer Watch Co., Inc., New York, N. Y., a corporation of New York. Symphonic Theme Sheet in Leaflet Form Published From Time to Time. Class 38.

307,105. PAP-KEN. Registered Oct. 17, 1933. Henry K. Wampole & Company, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Oct. 17, 1953. Antacid, Digestant, Carminative. Class 18.

307,304. WILLIAMS & HUMBERT. Registered Oct. 24, 1933. Williams & Humbert. Renewed Oct. 24, 1953, to Williams & Humbert Limited, London, England, a limited liability company registered under the laws of Great Britain. Sherry Wine. Class 47.

307,394. "MACKINLAY'S V. O. B." ETC. Registered Oct. 24, 1933. Chas. Mackinlay & Company. Renewed Oct. 24, 1953, to Charles Mackinlay & Company Limited, Leith, Scotland, a corporation organized under the laws of Great Britain and Northern Ireland. Scotch Whisky. Class 49.

307,437. DONA MARIA. Registered Oct. 24, 1933. Companhia Geral da Agricultura das Vinhas do Alto Douro, doing business as Real Companhia dos Vinhos do Porto, Royal Oporto Wine Company, Companhia Velha, and The Old Company, Oporto, Portugal, a limited liability company organized under the laws of Portugal. Renewed Oct. 24, 1953. Wines. Class 47.

307,438. BRINDE. Registered Oct. 24, 1933. Companhia Geral da Agricultura das Vinhas do Alto Douro, doing business as Real Companhia dos Vinhos do Porto, Royal Oporto Wine Company, Companhia Velha, and The Old Company, Oporto, Portugal, a limited liability company organized under the laws of Portugal. Renewed Oct. 24, 1953. Wines. Class 47.

307,440. FIDALGO. Registered Oct. 24, 1933. Companhia Geral da Agricultura das Vinhas do Alto Douro, doing business as Real Companhia dos Vinhos do Porto, Royal Oporto Wine Company, Companhia Velha, and The Old Company, Oporto, Portugal, a limited liability company organized under the laws of Portugal. Renewed Oct. 24, 1953. Wines. Class 47.

307,461. INDIAN HEAD. Registered Oct. 24, 1933. Iroquois Beverage Corporation, Buffalo, N. Y., a corporation of New York. Renewed Oct. 24, 1953. Malt Beverages With Not More Than the Legal Alcoholic Content. Class 48.

307,766. "GEIGY" AND DESIGN. Registered Oct. 31, 1933. Geigy Company, Inc., New York, N. Y., a corporation of New York. Renewed Oct. 31, 1953. Dyestuffs, Lakes and Chemical Products Suitable for Dyeing Purposes. Class 6.

307,820. PEDI-KINS. Registered Nov. 7, 1933. Harzfeld's, Inc., Kansas City, Mo., a corporation of Missouri. Renewed Nov. 7, 1953. Children's Shoes Made of Leather, Fabric, and Combinations of Leather and Fabric. Class 39.

307,822. HARZ-FLEX. Registered Nov. 7, 1933. Harzfeld's, Inc., Kansas City, Mo., a corporation of Missouri. Renewed Nov. 7, 1953. Children's Shoes Made of Leather, Fabric, and Combinations of Leather and Fabric. Class 39.

307,835. "ALLSTATE" AND DESIGN. Registered Nov. 7, 1933. Sears, Roebuck and Co., Chicago, Ill. Renewed Nov. 7, 1953, to Western Tablet & Stationery Corporation, Dayton, Ohio, a corporation of Delaware. Yellow Second Sheets and Stationery—Namely, Boxed Paper and Envelopes. Class 37.

308,055. MONARCH. Registered Nov. 21, 1933. Wasco Engineering Corporation, New York, N. Y., a corporation of New York. Renewed Nov. 21, 1953. Boiler Protective and Rust Eradicator. Class 52.

308,247. BARKER. Registered Nov. 28, 1933. Goldblatt Bros., Inc., Chicago, Ill., a corporation of Illinois. Renewed Nov. 28, 1953. Dog Food. Class 46.

308,312. CRITERION. Registered Nov. 28, 1933. The Parsons & Baker Co., Phoenixville, Pa., a corporation of Pennsylvania. Renewed Nov. 28, 1953. Men's and Children's Knit Underwear. Class 39.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

101,560. VETERAN. Registered Dec. 29, 1914. Brewster, Gordon & Co., Rochester, N. Y. Coffee, Tea, Molasses, Etc. Class 46. Amended as follows: In the statement, column 2, the description of goods with the exception of "coffee, tea," is deleted; and *and* is substituted for the comma following "coffee."

575,319. "DRICONURE" AND DESIGN. Registered June 2, 1953. Atkins & Durbrow, Inc., New York, N. Y. Fertilisers. Class 10. Amended as follows: In the statement, column 2, lines 5 and 12, "red" is deleted and *orange* is inserted in lieu thereof; and the drawing is amended to appear as follows:



TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

73,302. KIL-VE. Registered Apr. 6, 1909. Renewed Apr. 6, 1929. Re-renewed Apr. 6, 1949. Samuel Schwarz, Newark, N. J. Insecticide and Vermin-Destroyer. Class 6. New certificate under section 7(c) issued Sept. 8, 1953, to Victoria Chemical Co., Bloomfield, N. J., a corporation of New Jersey.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 306,655. Registered Sept. 26, 1933. Surpass Leather Company, New York, N. Y., a corporation of Pennsylvania. Republished by registrant, present address Philadelphia, Pa.

CALLUNA

For Leather.
Claims use since Apr. 1, 1933.

CLASS 12

CONSTRUCTION MATERIALS

Reg. No. 358,177. Registered June 28, 1938. Pratt & Lambert, Inc., Buffalo, N. Y., a corporation of New York. Republished by registrant.

"61"

For Varnishes, Paint Enamels, Lacquers, Stains, Fillers, Primers, Surfacers, Putties, and Undercoatings.
Claims use since Jan. 1, 1894.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Reg. No. 300,414. Registered Jan. 17, 1933. Pacific Wire Products Company, Los Angeles, Calif. Republished by Pacific Wire Products Company (1946), Compton, Calif., a corporation of California.

TROPICLOTH

For Tinned Bronze Wire Insect Screening.
Claims use since Apr. 8, 1932.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Reg. No. 115,999. Registered Mar. 27, 1917. Pratt & Lambert, Inc., Buffalo, N. Y., a corporation of New York. Republished by registrant.

Tonetic

For Varnishes.
Claims use since Aug. 24, 1916.

Reg. No. 230,485. Registered July 26, 1927. Pratt & Lambert, Inc., Buffalo, N. Y., a corporation of New York. Republished by registrant.

Lyt-all

For Paint Enamels, Varnishes, Primers, and Thinners (Solvents).
Claims use since Feb. 18, 1918.

Reg. No. 230,486. Registered July 26, 1927. Pratt & Lambert, Inc., Buffalo, N. Y., a corporation of New York. Republished by registrant.

FILTEX

For Varnishes, Surfacers, Primers.
Claims use since Mar. 15, 1921.

Reg. No. 358,177. Registered June 28, 1938. (Classified in Class 12.) Pratt & Lambert, Inc., Buffalo, N. Y., a corporation of New York. Republished by registrant. See this number in Class 12 for goods and mark.
Claims use since Jan. 1, 1894.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Reg. No. 401,577. Registered May 25, 1943. Precision Scientific Co., Chicago, Ill., a corporation of Illinois. Republished by registrant.

PS

For Laboratory Equipment—Namely, for Ovens, Incubators, Water Baths, Sterilisers, Water Stills, Electric Heaters, Electric Hot Plates, Centrifuges, Serological Testing Equipment, Shaking Machines, Petroleum Viscosimeters, Autoclaves, Nitrogen Determination Apparatus, Gas Meters, and Calorimeters.
Claims use since January 1935.

Reg. No. 432,441. Registered Sept. 2, 1947. Precision Scientific Co., Chicago, Ill., a corporation of Illinois. Republished by registrant.

AQUATRATOR

For Unitary Apparatus for Determining Moisture Content of Materials, and Comprising an Electronic Control Box, Burettes, Drying Tube, Electrodes, Beaker, and Stirrer.
Claims use since Apr. 2, 1946.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Reg. No. 24,728. Registered May 15, 1894. The Aeolian Organ and Music Company, Meriden, Conn., and New York, N. Y. Republished by The Aeolian Company, New York, N. Y., a corporation of Connecticut.

·ÆOLIAN·

For Pianos.
Claims use since July 1887.

Reg. No. 112,461. Registered Sept. 12, 1916. The Aeolian Company, Meriden, Conn., and New York, N. Y., a corporation of Connecticut. Republished by registrant, present address New York, N. Y.

AEOLIAN

For Pianos and Automatic Players Therefor.
Claims use since prior to Jan. 1, 1900.

CLASS 38

PRINTS AND PUBLICATIONS

Reg. No. 328,216. Registered Sept. 17, 1935. The Durochrome Co., Los Angeles, Calif. Republished by Durochrome Co., Inc., Los Angeles, Calif., a corporation of California.

Durochrome

For Decalcomania Transfers.
Claims use since Jan. 1, 1932.

CLASS 39

CLOTHING

Reg. No. 403,826. Registered Oct. 19, 1943. Siegel Brothers Kiki Maid Koats, Inc., New York, N. Y. Republished by Leeds Ltd. Coats, Inc., New York, N. Y., a corporation of New York.

LUSTRASHEEN

For Ladies' and Misses' Coats and Suits.
Claims use since May 15, 1936.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 337,974. Registered Aug. 25, 1936. Siegel Bros. Kiki Maid Koats Inc., New York, N. Y. Republished by Leeds Ltd. Coats, Inc., New York, N. Y., a corporation of New York.

LUSTRELAIN

For Woolen Piece Goods.
Claims use since Apr. 1, 1936.

Reg. No. 342,687. Registered Jan. 26, 1937. Siegel Bros. Kiki Maid Koats, Inc., New York, N. Y. Republished by Leeds Ltd. Coats, Inc., New York, N. Y., a corporation of New York.

CLOUDTONE

For Piece Goods Made of Wool, Cotton, Rayon, Silk, Artificial Silk, Artificial Fibres, and Combinations of the Same.
Claims use since May 15, 1936.

Reg. No. 408,652. Registered Aug. 22, 1944. Siegel Bros. Garment Corp., New York, N. Y. Republished by Leeds Ltd. Coats, Inc., New York, N. Y., a corporation of New York.

DEBSHIRE

For Woolen and Worsted Fabrics in the Piece.
Claims use since Apr. 1, 1931.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 192,166. Registered Nov. 25, 1924. Myrurgia, S. A., Barcelona, Spain, a corporation organized under the laws of Spain. Republished by registrant.

MYRURCIA

For Massage Cream, Toilet Cream, Cold Cream, Antiseptic Cream, Almond Cream, Perfumery Essence, Scents, Essential Oils, Perfumery Extracts, Sachet Powder, Face Powder, Toilet Powder, Antiseptic Powder, Toilet Waters, Tooth Paste and Powder, Powder for Cleaning the Nails and Nail Enamel, Chemicals for Imparting Odor or Color to Perfumes, Toilet Rouge, Foot Powder, Mouth Wash, Eyebrow Pencils, and Hand Lotion.
Claims use since July 31, 1915.

Reg. No. 426,410. Registered Dec. 24, 1946. Staber's for Beauty, Los Angeles, Calif., a co-partnership. Republished by registrant.



For Wave Cream, Hair Dressing, and Oil Hair Dressing.
Claims use since 1935.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 91,451. Registered May 6, 1913. Ball Chemical Company, Pittsburgh, Pa., a corporation of Pennsylvania. Republished by registrant.

FENOLYM

For Preparations for Removing Paint and Other Coatings From Metal and Other Surfaces.
Claims use since about Nov. 11, 1912.

Reg. No. 339,982. Registered Oct. 27, 1936. R. A. Jones & Co., Covington, Ky. Republished by Botany Mills, Inc., Passaic, N. J., a corporation of New Jersey.

Botana

For Soap.
Claims use since May 15, 1936.

Reg. No. 418,370. Registered Dec. 18, 1945. Myrurgia, S. A., Barcelona, Spain, a corporation organized under the laws of Spain. Republished by registrant.

Myrurgia

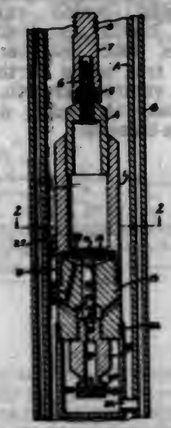
For Toilet Soaps.
Claims use since May 18, 1918.

REISSUES

SEPTEMBER 8, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

23,710
FLOW VALVE
William F. Grisham, Pasadena, Tex.
Original No. 2,236,137, dated March 25, 1941, Serial No. 192,669, February 25, 1938. Application for reissue April 25, 1951, Serial No. 223,761
1 Claim. (Cl. 137—155)

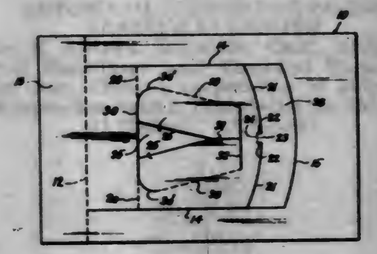


2. A flow producing device for use in a well tubing comprising a body having a chamber in its upper part, a small chamber in its intermediate part and a passage in its lower part connected with a source of fluid under pressure and opening out at its upper end into the small chamber, said body also having upwardly and outwardly extending passages leading from the small chamber through the side walls of the body, means for introducing fluid into the upper chamber to maintain a fixed pressure therein, a diaphragm carried by the intermediate part of the body and acted upon by the pressure in the large chamber and said body having a passage leading from one of said upwardly and outwardly extending passages to a point under the diaphragm, a valve having its upper end connected with the diaphragm and said valve passing through an intermediate part of the body and through the small chamber and normally holding closed the upper end of the passage connected with the source of fluid under pressure, said passage having a restricted upper portion, the top of which forms a valve seat for the valve.

23,711
STABILIZED POLYTHIONATES AS MEDICINAL COSMETICS
Torben Emil Nossby, New Brunswick, N. J., assignor, by mesne assignments, to Carroll Dunham Smith Pharmacal Co., New Brunswick, N. J., a corporation of New Jersey
No Drawing. Original No. 2,551,627, dated May 8, 1951, Serial No. 636,637, October 5, 1945. Application for reissue April 28, 1953, Serial No. 350,080. In Norway January 2, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires January 2, 1961
6 Claims. (Cl. 167—88)

2. A composition of matter comprising a cosmetic base, a compound having the formula $R_2S_nO_6$ in which R is from the group consisting of hydrogen and an alkali metal and n is an integer from 4 to 6 inclusive, and in intimate physical association with said compound, a metal compound from the group consisting of cupric and ferric compounds, which when dissolved in an aqueous medium ionize and form cations, said metal compound being present in very small proportions with respect to said compound and suppressing the decomposition of said compound and the resulting liberation of elemental sulphur and sulphur dioxide for relatively long periods when the composition is at room temperature and in contact with water, whereby the solution remains clear.

23,712
COMBINATION SHIRT BOARD AND COLLAR PROTECTOR
Joseph A. O'Reilly, El Cerrito, Calif.
Original No. 2,581,696, dated January 8, 1952, Serial No. 131,344, December 6, 1949. Application for reissue October 3, 1952, Serial No. 313,097
15 Claims. (Cl. 223—71)



1. A shirt board of the character described comprising a flat, substantially rectangular blank of cardboard or the like, adapted for insertion within a folded shirt; said board being transversely scored across its outer end portion thus setting off a transverse flange forming portion, and there being a partially detached panel in the central body portion of the board, extending from said transverse line of scoring toward the inner end of the board; said panel being adapted, prior to the application of the board to a shirt, to be downwardly displaced from the body of the board, and then to be backwardly and upwardly hinged along said transverse line of scoring, thus to turn the said flange forming portion and the panel to upright positions; and said panel being transversely scored along a line that is slightly above the top edge of the upturned flange, along which line the upper end portion of the panel may then be downwardly hinged to protectively overlie the collar portion of the shirt to which the board may be applied.

PLANT PATENTS

GRANTED SEPTEMBER 8, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,216
PEACH TREE
Harold D. Dougherty, Farmersville, Calif.
Application September 4, 1952, Serial No. 307,931
1 Claim. (Cl. 47—62)

A new and distinct variety of peach tree, substantially as described and illustrated, characterized by yellow-fleshed, semi-freestone fruit having a ripening period averaging five to ten days earlier than the Triumph peach, the fruit hanging well on the tree, with a somewhat lengthened ripening period, remaining firm when picked ripe, having excellent keeping and shipping qualities, and not darkening when bruised; and the tree being further characterized by large size, vigorous growth, leaves having a crenate marginal structure, an absence of glands, and a large blossom.

PATENTS

GRANTED SEPTEMBER 8, 1953

GENERAL AND MECHANICAL

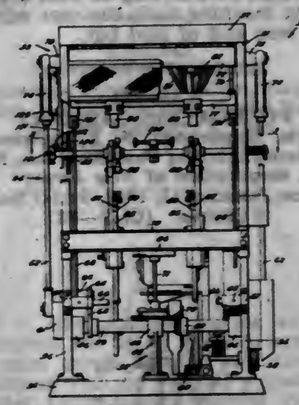
2,651,624
DESK STAPLER
Walter J. Vail, Richard R. Vail, Le Roy Demerath, Lee J. Dugin, and Curt E. Nyberg, Chicago, Ill., assignors to Vail Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application July 8, 1950, Serial No. 172,764
6 Claims. (Cl. 1—3)



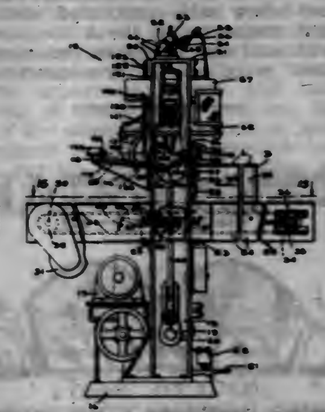
1. In a stapling machine of the type wherein a base pivotally supports the rear end of an elongated staple-carrying arm equipped with a longitudinally slidable forwardly-urged staple pusher and the rear end of an elongated cover for the arm equipped with a driver at its forward end and swingable in a vertical plane toward and from the arm, the combination of a locking bolt movably mounted on the cover and engageable with the staple-carrying arm to lock the one to the other, means on the staple pusher engageable with the locking bolt when the pusher is retracted to a position toward the rear end of the staple-carrying arm, thereby to disengage the locking bolt from the arm, detaining means automatically engageable with the pusher when retracted toward the rear end of the arm to hold the pusher against forward movement therein, and means on the cover operable with movement of the cover toward the arm to engage the pusher detaining means to move the same to disengaging position thereby to release the pusher for forward movement within the staple-carrying arm.

2,651,625
CLAMP DAGGER CAM RELEASE
Glenn E. Stilwell, Riverside, Calif., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application September 23, 1948, Serial No. 50,729
12 Claims. (Cl. 1—10)

1. In a nailing machine the combination of: work clamp means; nailing means; means causing reciprocatory relative movement between said two means and including an approach phase for the driving of nails from said nailing means into said work, and a return phase concluding with said two means in spaced relation; means causing said clamp means to clamp the work to properly position the same for said nailing operation, said clamping taking place in response to an initial portion of said approach phase of said movement; and means responsive to and operative during an initial portion of said return phase of said movement for relaxing said clamping means to unclamp the work.



2,651,626
AUTOMATIC LIDDER FOR BOXES VARYING IN LENGTH
Glenn E. Stilwell, Riverside, Calif., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application April 5, 1950, Serial No. 154,119
11 Claims. (Cl. 1—10)



1. In a box lidder, the combination of: a nailing machine; a conveyor for conveying a box through said machine in a given direction lengthwise of said box but also adapted for conveying said box in a reverse direction; a forward motion stop for halting said box on said conveyor in position for nailing the front edge of a lid onto the front end of said box; means for setting said nailing machine in motion to cause it to nail the front edge of said lid to the

front end of said box; means responsive to said nailing operation to remove said stop from in front of the front end of said box to permit said box to continue traveling in said direction on said given conveyor until past nailing machine; and a reverse stop mounted on said nailing machine to yield out of the path of said box when the latter is traveling in the aforesaid given direction into said machine, but located to engage the rear end of said box when said box is conveyed in said reverse direction after having passed beyond said nailing machine and said reverse stop, said box being positioned by engagement with said reverse stop so that actuation of said nailing machine nails the rear edge of said lid to the rear end of said box.

2,651,037
FOUNDATION GARMENT
Benn Lewis, Maplewood, N. J., assignor to The Lewel Manufacturing Company, Inc., New York, N. Y., a corporation of New Jersey
Application January 11, 1952, Serial No. 265,945
3 Claims. (Cl. 2—28)



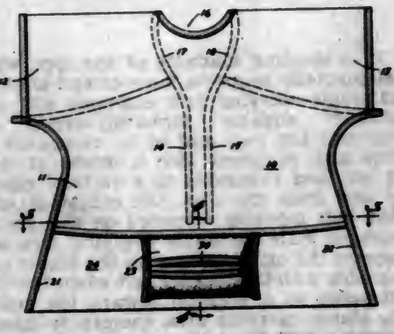
1. A foundation garment comprising a circumferentially resilient sheath for encircling the body in a region from above the umbilicus to below the hips, said sheath having a constricted portion below the upper edge of the garment in the region of the umbilicus, said garment being wider above and below said constricted portion, said constricted region being about one and a half inches wide and the maximum reduction in circumference being about three-quarters of an inch.

2,651,038
BRASSIÈRE
William Rosenthal, Bayville, N. Y.
Application May 15, 1951, Serial No. 226,491
1 Claim. (Cl. 2—42)



A brassière comprising a pair of breast receiving cups each having a vertical edge secured together along their vertical edges, each of said cups consisting of two joined sections, the first section having a vertical edge constituting said vertical edges of said cups, an elongated sloping edge outwardly disposed and of greater length than and opposed to said vertical edge, a bottom horizontal edge and a top upwardly and outwardly curvatured edge, the second of said sections also having an elongated sloping edge outwardly disposed and adapted to abut the entire sloping edge of said first section, an outer edge opposed to said elongated sloping edge, a bottom horizontal edge and a top downwardly and outwardly curvatured edge, a flexible bone disposed in each cup and adjacent the line of juncture of said sloping edges of said sections, a flexible bone disposed adjacent the vertical edge of said joined cups and adjacent the outer edges of each section, each of said cup sections consisting of an outer cover fabric and an inner liner fabric, both having the above described geometric shapes, as well as a stiffening material disposed between the cover and the liner at the upper half thereof, said stiffening material being sewn to said liner by a plurality of rows of substantially vertical stitching, said cover being sewn to said sewn liner and stiffening material by a plurality of arcuate downwardly disposed stitches traversing said vertical rows of stitching at substantially right angles, and a back band secured to the outer edge of each of said second cup sections and adapted for fastening to one another.

2,651,039
UNITARY BIB AND TISSUE DISPENSER
Rosalie R. Tonkens, Cincinnati, Ohio, and Arthur N. Gunther, Grand Rapids, Mich.; said Gunther assignor to said Tonkens
Application February 26, 1952, Serial No. 273,284
2 Claims. (Cl. 2—49)



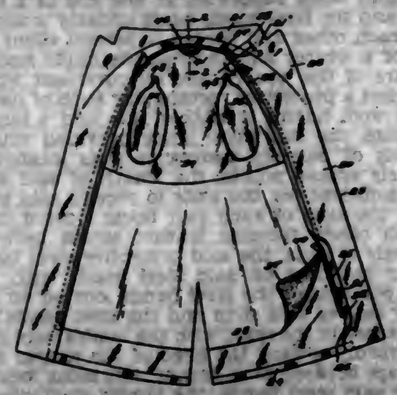
2. A child's bib made of plastic material, the said bib comprising a body portion provided with a spaced transversely extending front wall having a bottom edge secured integrally to the bottom edge of said body portion, the ends of said wall being secured to the side edges of said body portion while the top edge of said front wall is free to form an upwardly opening trough extending all the way across the lower front portion of the bib; and a pocket for disposable tissues to be used on the wearer secured to the front of said trough-forming wall, said pocket for the tissues being provided with a transversely extending aperture for ready removal of said tissues.

2,651,040
BATHING SUIT
Inez Bleck, New Rochelle, N. Y.
Application September 5, 1951, Serial No. 245,197
2 Claims. (Cl. 2—67)

1. A tight-fitting bathing suit comprising a body portion formed of two side panels of one-way stretch material stretchable in a lateral direction, a front panel extending from the base of the bathing suit to the waistline and having its sides secured to said side panels, said front panel being of one-way stretch material stretchable in a transverse direction, the upper portion of said suit containing two breast-receiving pockets each formed of two panels, the lower panel of each pocket being formed of one-way stretch material stretchable in a vertical direction and the upper panel of each pocket of one-way stretch material stretchable in a lateral direction, an intermediate panel bridging the space between said breast-receiving pockets, having the upper portion thereof substantially triangular in shape and secured by stretchable and contractable seams to the sides of the said lower panels and having the base thereof secured to the top of said front panel, said intermediate panel being of one-way stretch material stretchable in a vertical direction, and a decorative panel of substantially the same width as the front panel extending from top to bottom of the bathing suit and overlying said front and intermediate panels.



2,651,041
OVERCOAT
Louis Sunderland and Ethel Fiorino, Elkins Park, and Isadore Irving Berger, Philadelphia, Pa., assignors to Louis Sunderland Company, Philadelphia, Pa., a sole proprietorship
Application February 7, 1951, Serial No. 209,234
2 Claims. (Cl. 2—97)



1. An overcoat having a body covering portion and a neck portion, said overcoat being provided with a front opening, the edges of the front opening having inside facings, the facings having inwardly directed flaps providing channels extending along the insides of the facings, the channel flaps terminating adjacent the respective sides of the neck portion of the coat and the flaps being open at their upper ends, slide fasteners secured to the coat and extending through the channels to approximately the ends adjoining the neck portion, a removable warmer lining fitting into the channels under the flaps and inside the neck portion, extending out the ends of the channels toward the center of the neck portion in a continuously curved edge and having slide fasteners secured to the portion of the warmer in the channels and cooperating with the slide fasteners secured to the coat, the portion of the warmer at the center of the collar extending directly in prolongation of the portion in the channels, and a cooperating fastening between the upper center of the warmer lining and the center of the coat at the inside of the neck portion of the coat.

2,651,042
CONVERTIBLE SHIRT
Gaetano Lombardi, Milan, Italy
Application January 24, 1950, Serial No. 140,282
In Italy February 2, 1949
1 Claim. (Cl. 2—116)



A shirt or like garment having an attached collar, adapted for being worn in any position between open throat V-neck and closed collar dress positions with or without a necktie, comprising two front panels having overlapping edge portions, a row of buttons on the panel having the under edge portion adjacent the edge thereof and the other panel having a corresponding row of buttonholes adjacent its edge, the uppermost button and button hole of which lie just beneath the V-neck formed by the shirt in open throat position of the collar, said collar having lapel-like extensions on its ends integral with the exposed side of the collar, the edges of said lapel-like extensions lying in unbroken lines which join to the fastenable overlapped edges of the shirt front panels, the two opposite edges that define the ends of the collar, the edge of the buttonhole-carrying panel and the edge of the lower portion of the corresponding collar lapel extension lying in a continuous straight line, and the edge portions of the front panels above the uppermost button and buttonhole overlapping in closed collar position, the overlapping of the edges of the panels at least above the uppermost button and buttonhole being less than the overlap beneath said button and buttonhole to give a smart appearance to the collar in any position.

2,651,043
SHIRT COLLAR
Robert W. McCreery, Fort Washington, N. Y., assignor to Phillips-Jones Corporation, New York, N. Y., a corporation of New York
Application January 12, 1952, Serial No. 267,009
1 Claim. (Cl. 2—131)

A collar comprising an integral inner foldable layer having a neck-band panel portion and a face-band panel portion, an integral intermediate foldable layer having a neck-band panel portion and a face-band panel portion, an integral outer foldable layer having a neck-band panel portion and a face-band panel portion constituting the visible portion of the collar when the collar is folded, a face-band reinforcing layer disposed between the face-band panel portion of said intermediate and outer foldable layers, a

neck-band reinforcing layer disposed between the neck-band panel portions of said intermediate and outer foldable layers, each of said reinforcing layers being substantially stiffer than said intermediate foldable layer and the adjacent edges of said reinforcing layers being spaced apart to form a fold zone, all said face-band panel portions and said face-band reinforcing



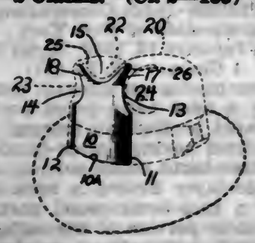
layer having upwardly bent bottom flaps which are fixed to each other and which are located between the lower part of the face-band panel of said inner layer and the lower part of the face-band panel of said outer layer, the upwardly bent flap of said face-band reinforcing layer being disposed between the upwardly bent flap of said intermediate layer and the upwardly bent flap of said outer layer.

2,651,044
SCARF HAT
Evangeline Ruth Stankiewicz and Mary K. Taylor, Syracuse, N. Y.
Application August 26, 1949, Serial No. 112,514
4 Claims. (Cl. 2—171)



1. A scarf hat comprising a form having outer and inner concentric cylindrical head band members telescopingly interfitted and frictionally held together, and a scarf having a corner thereof extending upwardly between selected adjacent portions of said frictionally engaged head band members and held in position thereby, the remaining portion of said scarf being folded back over said form.

2,651,045
HAT PINCH FORM
Sidney Shenkman, New York, N. Y.
Substituted for abandoned application Serial No. 5,099, January 29, 1948. This application March 12, 1953, Serial No. 341,859
2 Claims. (Cl. 2—185)



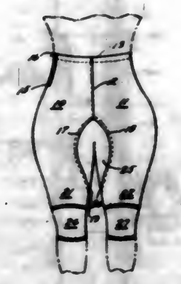
1. A hat pinch form for a man's fedora hat, comprising a substantially flat and comparatively stiff sheet of cylindrically deformable material, said sheet comprising a substantially straight bottom boundary, a top boundary and side boundaries, said top and side boundaries each being relieved by a concavely curved line so as to form three recesses in the sheet, said recesses further defining two relatively narrow and free standing flexible ears extending on either side of the recess of said top boundary, said sheet in use being inserted inside the sweatband of the hat with said bottom boundary substantially in contact with and supported by the means fastening said sweatband in said hat, and said ears in use contacting the under surface of the top portion of the hat body and exerting upward pressure thereagainst, said ears further being warped by said pressure along substantially horizontally extending straight lines, said ears further being effective to maintain a minimum width in ridges of said hat extending between the top depression of the hat body and side depressions of said hat body, said recesses further extending entirely within an upper portion of said sheet constituting less than one half of the height of said sheet and the lower portion of said sheet being unrelieved so as to constitute a stiffener imparting shape to the front central portion of the hat body.

2,651,046
EAR MUFF
Elaine Berg, Chicago, Ill.
Application September 14, 1951, Serial No. 246,627
3 Claims. (Cl. 2—209)



1. In an ear muff assembly of the type having a pair of muffs, each muff comprising a pair of layers of fabric stitched about a reinforcing ring, each muff being supported at one end of a steel band, and the steel bands being slidably mounted upon each other and curved to extend about the head of a wearer and to press the muffs against the ears of the wearer, the improvement which comprises a protective rectangular strip of native lamb's wool having a leather side and a lamb's wool side, the said strip being provided with a plurality of pairs of transverse slots located at regularly spaced points, the length of said slots being sufficient for the slots to receive said steel bands, the slots of each pair being located close to each other, forming leather straps between each pair of slots, the said protective strip being slidably mounted on said steel bands with the major portions of the steel bands located on the leather side of said strip and the steel bands being received in the slots, with the lamb's wool facing inwardly toward the head of the wearer and the straps between each pair of slots being located outside said steel bands, the lamb's wool side of said straps being recessed by pressure of the steel bands against the adjacent lamb's wool so that the steel bands are embedded in the lamb's wool of said straps and the steel bands are located outwardly of the major portion of the lamb's wool, and substantially in the plane of the leather side of said strip, the lamb's wool inside the steel bands spacing the bands from the head at all points, said strip being of sufficient length to extend under the steel bands from one end to the other end when the steel bands are fully extended, and the muffs overlapping the ends of the protective strip, to prevent contact of metal parts with the head, said protective strip being adapted to be gathered into adjacent folds on said steel bands.

2,651,047
WOMAN'S UNDERGARMENT
Nellie Emerson, Youngstown, Ohio
Application May 23, 1951, Serial No. 227,284
1 Claim. (Cl. 2—224)



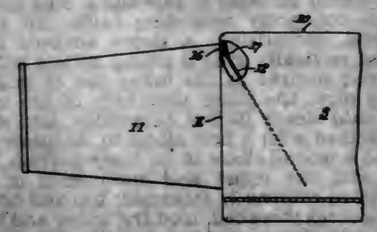
A woman's bifurcated form-fitting undergarment having leg portions and a crotch portion, said undergarment comprising two similar oppositely disposed longitudinal side sections each having straight upper side edge portions joined together by vertical central seams at the front and rear of the undergarment, the upper straight edge portions of the sections at the rear of the undergarment and the vertical seam connecting the same terminating above the crotch portion of the undergarment at a point below that part thereof normally overlying the wearer's buttocks, the upper straight edge portions at the front of the undergarment and the vertical seam connecting the same terminating slightly above the crotch portion, said sections at the rear of the undergarment each having a lower concave edge portion extending in a gradual curve inwardly thereof from the lower end of the adjoining rear vertical seam to a point a substantial distance below the crotch portion, the sections at the front of the undergarment having slightly concavely curved edge portions extending from the lower end of the front vertical seam to a point a substantial distance below the crotch portion, and a single continuous generally diamond shaped crotch piece longer on one axis than the other, said crotch piece having side edge portions convexly curved to correspond to said concavely curved edge portions of the sections and seamed thereto, said crotch piece being disposed with its longitudinal axis extending from the corresponding points on one leg portion to the corresponding points on the other leg portion, the seams connecting said first mentioned rear curved edge portions to the crotch piece being disposed to extend along the wearer's body beneath the buttocks at the inner sides of the legs a relatively short distance laterally of the crotch area, the crotch piece being adapted to smoothly and snugly fit the wearer's body and at the same time the connecting seams being so disposed as to be invisible through an ordinary outer garment and to not present any ridges or lines on an outer garment, the longitudinal side sections below the ends of the crotch piece being secured together to form the leg portions, and elongated cuff members formed at the bottom of said leg portions.

2,651,048
GARMENT STRUCTURE WITH CROTCH
Jacques Randolph Milberg, East Rockaway, N. Y.
Application November 22, 1952, Serial No. 322,100
1 Claim. (Cl. 2—224)



An undergarment having an upper waist encircling portion and lower leg embracing portions; comprising a body portion formed from a single panel of material having upper side edges joined to form a substantially vertically extending seam centrally located with respect to the rear of said undergarment, said rear seam extending from said waist encircling portion downwardly and terminating in a lower end located approximately within the upper half of the vertical length of said body portion, downwardly diverging linear lower side edges extending from said lower end of said rear seam, said lower portions of said undergarment on opposite sides of said central rear seam being cut along upwardly convergent lines the upper ends of which terminate at a level below said lower end of said rear seam and defining said leg embracing portions, said upper ends of said leg embracing portions being positioned in the lower half of the body portion, and a crotch insert having its rear portion complementary to said linear diverging side edges and stitched thereto, said crotch insert extending from the rear of said body portion to the front of said body portion and terminating at the front in a convexly shaped front edge stitched to a correspondingly shaped concave front edge of said body portion to thereby complement said legs embracing portions, said front edge being located at a level lower than said upper ends of said legs embracing portions, the material of said crotch insert being stretchable in a direction extending from said lower rear seam end toward said convexly shaped front edge of said insert, the material of said body portion being stretchable in a direction transversely of the direction of stretchability of said insert, whereby said undergarment presents a free from binding effect on the wearer.

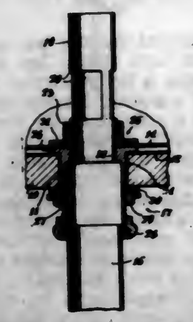
2,651,049
LIGHTPROOF SEAM AND A METHOD OF MAKING THE SAME
Henry F. Burkhard, near Long Branch, N. J.
Application September 30, 1949, Serial No. 118,742
2 Claims. (Cl. 2—275)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A light-proof seam consisting of two thicknesses of fabric laid flat and stitched together along a line spaced from the edges of both fabrics,

one thickness of fabric being folded back to form a hem which incloses said line of stitching, and stitching securing the edge of the folded back portion only to the same thickness of fabric.

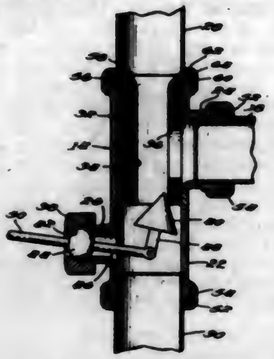
2,651,050
FITTING FOR FLUSH TANKS
Harry E. Salzman, Bronx, N. Y.
Application March 7, 1950, Serial No. 148,057
1 Claim. (Cl. 4—68)



In combination with a tank for containing liquid having an outlet opening in a wall thereof and having a lining abutting said wall, said lining being permanently secured in the tank and having an opening in registry with the tank opening, a fitting having a flange engaging the portion of the lining surrounding its opening and having a cylindrical, tubular section extending freely through the tank and lining openings, said tubular section having internal threads adjacent said flange, threaded means for securing said fitting to the tank, a second lining spaced from said first lining removably mounted in said tank having an opening substantially in registry with the tank and first lining openings and having the portion at one side thereof surrounding its opening in engagement with said flange, a second fitting having a flange engaging the portion of the second lining surrounding its opening at the other side thereof, and an exteriorly threaded extension on said second fitting in mesh engagement with said interiorly threaded tubular section for removably securing said first and second fittings to cause said second lining to be secured between said flanges.

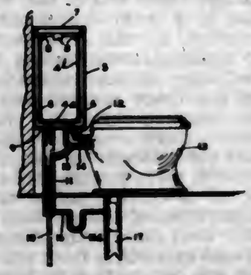
2,651,051
LIQUID DIVERTING APPARATUS
Winifred E. Parks, Los Angeles, and Harold W. West, Lynwood, Calif.
Application September 21, 1951, Serial No. 247,662
1 Claim. (Cl. 251—125)

Liquid diverting apparatus for use in a piping system which includes a depending pipe formed with an outwardly extending radial lip at its lower end, comprising: a sleeve adapted to be mounted vertically in said piping system with its upper end secured to the lower end of said depending pipe, the inner periphery of the upper end of said sleeve flaring outwardly, said sleeve being formed with a first elbow in its upper portion and a second elbow in its lower portion, both elbows and the upper and lower ends of said sleeve being externally threaded; top and bottom coupling rings threaded upon the upper and lower ends of said sleeve, said top coupling ring having a radially inturned flange which overlaps the lip of said depending pipe; a side coupling ring threaded upon said first elbow; an axially bored rubber cylinder concentrically mounted within said sleeve with its bottom end located below said first elbow and above said second elbow, the upper end of said cylinder being flared outwardly to conform to the inner periphery of said sleeve at this point whereby tightening of said top coupling ring will urge said lip downwardly against the top of said cylinder forcing it against the inner periphery of said sleeve so as to thereby effect a seal between said depending pipe and said sleeve, said cylinder also being formed with



a radial bore aligned with said first elbow; a mounting element threaded upon said second elbow; a ball rockably retained between said mounting element and said second elbow; a rod extending into said sleeve from said ball; a cone-shaped valve pivotally secured to the distal end of said rod; and a lever affixed to the side of said ball remote from said sleeve, said lever being movable so as to urge said valve upwardly whereby it will seat against the bottom of said cylinder thereby sealing off said axial bore.

2,651,052
INSULATING JACKET FOR TOILET FLUSH TANKS
Clarence A. Madsen, Emmons, Minn.
Application August 24, 1949, Serial No. 112,626
2 Claims. (Cl. 4—252)



1. A complete jacket structure for water supply systems for toilets comprising a tank jacket constructed to completely surround the water containing portion of a conventional flush tank in spaced relation to the side walls and bottom thereof, means for connecting said jacket to the tank for maintaining the spaced relation therebetween, a jacket surrounding the delivery pipe from the flush tank in spaced relation thereto, a second pipe jacket mounted in spaced relation around the supply pipe for said flush tank, a connector interconnecting said delivery pipe jacket with said supply pipe jacket, and a second connector interconnecting the bottom portion of said supply pipe jacket with a drain to produce

a complete jacket surrounding all of the exposed portions of the water containing and conveying elements of a toilet flushing system and to provide a drain for any water condensed in said system.

2,651,053
TOILET SEAT COVER LOCK
Russell R. Rowe and Leo J. Schuppert, Corydon, Ind.
Application August 12, 1949, Serial No. 109,848
2 Claims. (Cl. 4—253)



1. In a toilet bowl cover lock, a bracket having first and second legs, said first leg being adapted to be fixed to the bowl, a sleeve fixed on and projecting laterally from said second leg, an arm having a lateral portion slidably and rotatably engaged in said sleeve and a free end portion, said free end portion being arranged to engage the top of the bowl cover, spring means in said sleeve acting between said lateral arm portion and said bracket end serving to yieldably retract said lateral arm portion into said sleeve so as to hold the free end portion of the arm in locking engagement with the top of the bowl cover, and means acting between said lateral arm portion and an end of said sleeve and serving to hold said arm in the retracted locking position against being rotated in the sleeve, said arm being movable away from the sleeve against the resistance of said spring means to another position in which the last mentioned means is ineffective to prevent rotation of the arm relative to the sleeve to a position at one side of the bowl cover.

2,651,054
SOFA-BED HINGE
Edwin G. Krakauer, Brooklyn, N. Y., assignor to Kay Manufacturing Corporation, Brooklyn, N. Y., a corporation of New York
Application November 5, 1949, Serial No. 125,761
14 Claims. (Cl. 5—47)



14. In a hinge of the character described, a first hinge member, a second hinge member pivoted to the first hinge member, a locking pin fixed to the first hinge member, a locking lever pivoted to the second hinge member and having an edge notch therein for the reception of the pin, a first pawl having an edge notch therein adapted to receive the locking pin, said pawl being pivoted to the lever at one point to move in one direction away from and across the notch of the lever, a second pawl pivoted to the lever at a different point to move in the opposite direction when moving away from the lever, the second pawl having a pin-receiving notch therein, each of the pawls being longer than the width of the lever, and means maintaining the pawls in relatively crossed positions and for also limiting the movements of the pawls.

2,651,055
POSITION ADJUSTING DEVICE FOR FURNITURE OR THE LIKE
Philip Billet and Irving Levy, New York, N. Y.
Application December 30, 1949, Serial No. 135,976
4 Claims. (Cl. 5—75)



1. A position adjusting device for relatively movable parts comprising an elongated channel member, a receiving member slidably receiving said channel member, an elongated brake band disposed in said channel member with the opposite ends of said band secured to the latter, a pair of oppositely disposed wedge shaped brake members in said channel member with said band positioned between the confronting faces of said brake members, one of said brake members being fixed relative to said receiving member, spring means connecting said pair of brake members and adapted to urge said brake members longitudinally towards each other for frictional engagement with said band and the side walls of said channel member, rockable means carried by the other of said brake members and engageable with said receiving member for longitudinally separating said brake members to thereby permit longitudinal movement of said channel member relative to said receiving member, means on said channel member adjacent one end thereof adapted to engage said rockable means for rocking the latter into engagement with said receiving member thereby effecting longitudinal separation of the brake members, and means on said channel member adjacent the other end thereof adapted to engage said rockable means for freeing the latter from said receiving member to permit said spring means to urge said brake members longitudinally towards each other.

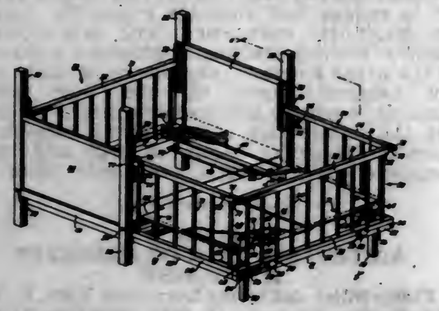
2,651,056
ADJUSTABLE BACK OR HEADREST MECHANISM
Philip Billet and Irving Levy, New York, N. Y.
Application February 18, 1949, Serial No. 77,094
4 Claims. (Cl. 5—78)



1. A position adjusting device for relatively displaceable parts; comprising four members pivotally connected together at their opposite ends to provide a deformable quadrilateral support assembly having two pairs of diagonally disposed corners, fastening means mounted on each of one of said pairs of corners for connecting the latter to relatively displaceable parts, tensioning means extending between two of said members defining one of said one pair of corners for yieldably urging said two members together thereby yieldably resisting deformation of said support assembly moving said one pair of corners towards each other, and a locking assembly extending diagonally across said quadrilateral support assembly between the corners of the other of said

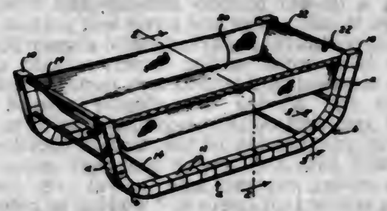
two pairs of corners, said locking assembly including two telescopic members pivotally connected at their opposite ends to said other pair of corners, wedging means carried by one of said telescopic members and engageable with the other of said telescopic members, resilient means normally effective to urge said wedging means into a condition preventing relative movement of said telescopic members in the direction spreading apart said other pair of corners, movable means carried by said one telescopic member and displaceable between an operative position in which said movable means acts on said wedging means against said resilient means to condition said wedging means to permit free relative movement of said telescopic members in either direction and an inoperative position permitting said resilient means to be effective, and first and second abutments carried by said other telescopic member at spaced locations and engageable with said movable means, said first abuttment being operative to displace said movable means to the operative position of the latter when said telescopic members are substantially telescoped and said second abutment being operative to displace said movable means to the inoperative position of the latter when said telescopic members are substantially extended relative to each other.

2,651,057
COMBINATION CRIB AND PLAYPEN
William T. Power, New York, N. Y.
Application June 23, 1951, Serial No. 233,140
6 Claims. (Cl. 5—93)



6. In a crib convertible into a play-pen and back again, said crib comprising a head-board, a foot-board, side bars secured between said head and foot boards to space them in erect relation, a floor for the crib, said floor extending between said head and foot boards, vertical guide channels associated with said head and foot boards, guide rails secured across said head and foot-boards below the side bars, a folding extension unit comprising a base frame having its oppositely disposed head and foot ends supported by said guide rails to permit said unit to slide underneath said crib-floor from the closed to the extended position of said unit and back again in the operation of converting the structure from a crib to a play-pen and back again, a head-end-frame, a foot-end-frame, the bottoms of said head and foot end-frames being respectively hingedly connected to the head and foot ends of said base frame to permit said end-frames to swing inwardly and outwardly about said hinge connections to convert said crib to and from a play-pen, a platform comprising two sections having their adjacent ends lapped and their remote ends rockably coupled to said end-frames, the outward swinging movement of said end-frames slidably extending said lapped sections to define a platform and elevating said platform to the approximate level of the crib-floor, two side frames removably mounted in said vertical guide channels in cooperative registry with said side bars to complete the crib enclosure, means for locking said head and said foot end-frames to said headboard and said foot-board, one of said side frames being slidably removable from said guide channels and detachably supportable between said end-frames to complete the said play-pen enclosure, and means for locking said side frame to said end-frames to retain said platform in elevated position.

2,651,058
PORTABLE BODY-SUPPORTING ASSEMBLAGE
Hans Arnold Almedine, Hollis, N. Y.
Application April 19, 1949, Serial No. 88,476
19 Claims. (Cl. 5—110)



1. An assemblage for supporting an occupant in a position of rest and transformable into compact form for transportation and/or storage, said assemblage including a base made up of a set of parallel structures connected together, and a canvas body receiving element removably connected to said base; each base structure presenting a unit assembly of a flexible linear element and a plurality of individual blocks carried in definite succession by the flexible element, said blocks each having a corresponding face carried similarly by the linear element, the opposite face of each block being free to move with respect to the corresponding faces of the adjacent blocks, said blocks each having a pair of other faces angularly related to such secured face with each of such angular faces adapted to cooperate matingly with a complemental face of an adjacent block in the production of the body supporting formation; said canvas body receiving element being removably secured to the opposite ends of such base block succession and having an overall length less than the linear length of the flexible block connecting element to thereby position the block succession with its opposite end zones raised, the length of said canvas body receiving element being greater than the distance between extremities of the block succession when adjacent blocks are in substantially mating relation to thereby render the weight of the occupant of such receiving element effective to perfect the such mating relation of the blocks in each succession; the respective unit assemblies having the individual blocks of each block succession related to each other and to the linear flexible element of the assembly in such a manner as to permit the block succession thereof to assume a linear form or a reversal into a roll form when at least one end of the canvas body receiving element is released from the base for transportation or storage of the assemblage while maintaining the cooperative relation of the blocks and the flexible linear element of each unit assembly.

2,651,059
BINDING STRIP FOR SPRING MATTRESS STRUCTURES
John G. Platt, Carthage, Mo., assignor to Flex-O-Laters, Inc., Carthage, Mo., a corporation of Missouri
Application January 27, 1951, Serial No. 208,108
5 Claims. (Cl. 5—360)



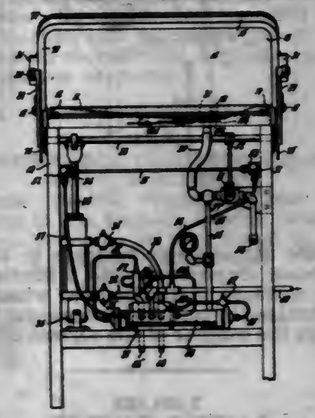
3. A binding strip for spring mattress structures comprising an elongated strip of crepe paper, a stiffening layer comprising a plurality of layers of waffle paper secured to said crepe paper strip, being longitudinally coextensive with said strip and extending transversely from one edge of said strip a distance slightly greater than one-half the width of said strip, a cord like member of cushioning material secured longitudinally to one side of said strip and disposed at the side of the midline thereof adjacent the stiffened edge thereof, said binding strip being adapted to be folded longitudinally along its midline with said cushioning cord on the outside to bring the transverse edge portions thereof into juxtaposition, and a coating of adhesive on the surface of said binding strip inside of said fold.

2,651,060
METHOD OF MAKING LOCK NUTS
Otto R. Misch, South Bend, Ind.
Original application October 13, 1947, Serial No. 779,527. Divided and this application January 7, 1949, Serial No. 69,741
1 Claim. (Cl. 10—86)



The method of making a lock nut, comprising the steps of forming a tapered unitary contractible split sleeve having a uniform screw-threaded bore extending therethrough, forming an outer part in cup shape with a tubular portion having a smooth substantially cylindrical inner bore substantially equal in diameter to the large external diameter portion of the inner part and greater in diameter than the bore of said split sleeve and with a peripheral outer surface tapering inwardly from its open end, assembling said inner member within said outer member, and then pressing the tubular portion of said outer member in a longitudinal coaxial direction against the flaring end portion of a tubular die having an inner diameter intermediate the diameters of the opposite ends of said initially tapered external surface of said outer part to force the tubular portion of said outer part into said die and uniformly reduce the circumferential size of said tubular portion, whereby the inner surface of said tubular portion is smoothly tapered and is similar to the taper of said inner part with its inner diameter at its open end smaller than the largest outer diameter of said inner part.

2,651,061
SHOE PRESS
Herbert R. Polleys, New Haven, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application August 18, 1948, Serial No. 44,959
6 Claims. (Cl. 12—1)

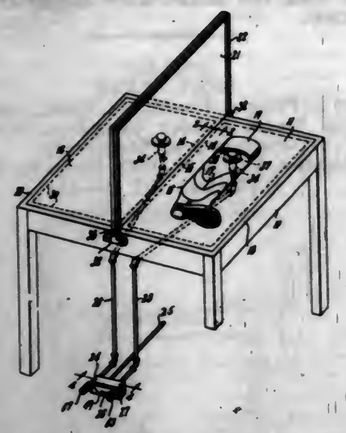


1. A shoe pressing machine comprising a stationary flexible diaphragm adapted to receive a shoe to be pressed, a pivoted flexible diaphragm having marginal edges adapted to be sealed against corresponding edges of said stationary diaphragm and form an envelope around said shoe, means movable with said pivoted diaphragm for connecting a sub-atmospheric pressure line to said envelope upon said diaphragm reaching said sealed envelope position, means including a prime mover for actuating said pivoted diaphragm from its sealed envelope position to an opened envelope position and supporting said pivoted diaphragm in said opened envelope position, and a gravity connection interposed between said pivoted diaphragm and said prime mover, whereby said prime mover may move independently of said pivoted diaphragm in the direction required to permit said pivoted diaphragm to return by gravity to its sealed envelope position.

2,651,062
APPARATUS FOR PRESSING LAMINATED MATERIALS
Yale Hertle Smiley, Kitchener, Ontario, Canada, assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application November 26, 1947, Serial No. 788,244
3 Claims. (Cl. 12—1)

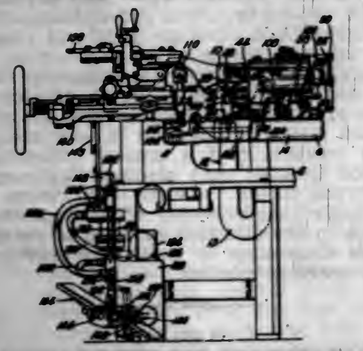
3. An apparatus for compacting plastic unvulcanised layers of rubber footwear having abrupt changes in its surface contour, said apparatus comprising three thin elastic, impervious, sheet diaphragms, a frame for each of said diaphragms, the edges of each diaphragm being affixed to its respective frame to maintain the diaphragms free from wrinkles, two of said frames being stationary and having adjoining sides, said third frame being pivoted on the line

of said adjoining sides so that the diaphragm therein may be pivotally superimposed over either of the stationary diaphragms and form a sealed envelope around the footwear placed therebetween, means for evacuating air from between said superimposed diaphragms and thereby cause



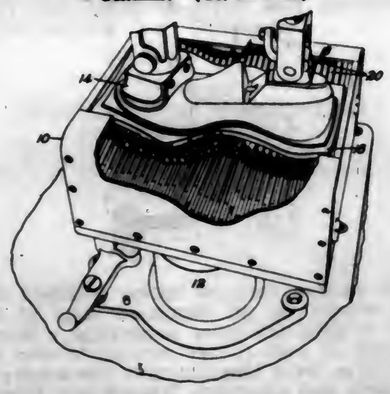
the outside atmospheric pressure to force said superimposed diaphragms into intimate contact with any surfaces of the footwear which may be initially bridged by said diaphragms due to abrupt changes in the contour of the surface of the footwear.

2,651,063
LASTING MACHINE
Roscoe L. Hill, Norway, Maine, and Robert W. Ireland, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 30, 1950, Serial No. 152,876
9 Claims. (Cl. 12—12.4)



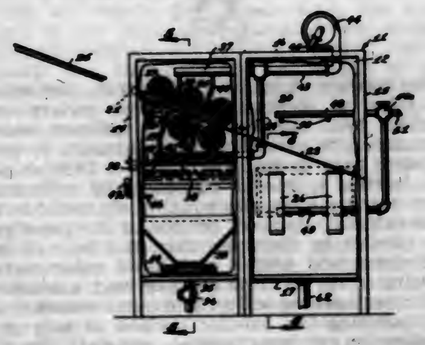
1. In a lasting machine, wipers for wiping the marginal portion of an upper about the toe end of a last inwardly over the bottom of the last, said wipers being mounted for movement heightwise of the last to wipe the upper first in that direction, a member movable by the operator thus to move said wipers wholly by force applied thereto by the operator, a fluid-operated member for moving the wipers reversely heightwise of the last by fluid pressure to increase their pressure on the upper after they have wiped it inwardly over the bottom of the last, said fluid-operated member being mounted to move heightwise of the last with the wipers when the wipers are moved by the operator in that direction, and valve means for applying to said fluid-operated member only such fluid under pressure as to move it idly heightwise of the last as the wipers are thus moved by the operator.

2,651,064
APPARATUS FOR APPLYING PRESSURE TO SHOE BOTTOMS
Charles K. Woodman, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application June 16, 1951, Serial No. 231,931
4 Claims. (Cl. 12—33)



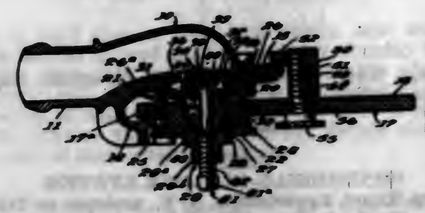
4. Apparatus for use in applying pressure to shoe bottoms comprising a shoe bottom-engaging pad, a plurality of transversely extending flat springs arranged to provide a substantially continuous surface for supporting said pad, individual supporting means for each of said springs comprising a pair of downwardly extending crossed bars the upper ends of which are pivotally connected to the ends of the associated spring, a tension spring connecting the lower ends of each pair of bars, and means for supporting the lower ends of the bars for pivotal and sliding movements.

2,651,065
TRAY WASHING AND STERILIZING MACHINE
Charles M. O'Connor, Tucson, Ariz.
Continuation of application Serial No. 260,481, December 7, 1951. This application January 19, 1953, Serial No. 332,034
8 Claims. (Cl. 15—56)



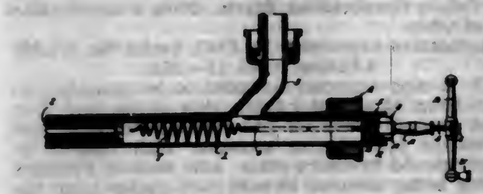
8. In a tray washing and sterilising machine, a housing, a loading slot, a downwardly sloping feed guide bar in said housing located to one side of said loading slot, scrubbing and feeding brushes behind said slot having their work engaging portions in alignment with said feed guide bar, detergent water supply means associated with said brushes, a plurality of discharge guide bars sloping at substantially right angles to said feed guide bar, a discharge slot in said housing at the lower ends of said discharge guide bars, and sterilizing jet means above said discharge guide bars.

2,651,066
BRAKE PIPE AND SIGNAL HOSE COUPLING GASKET GROOVE RECONDITIONING DEVICE
James M. Montgomery, Los Angeles, Calif.
Application August 24, 1951, Serial No. 243,552
5 Claims. (Cl. 15—104.03)



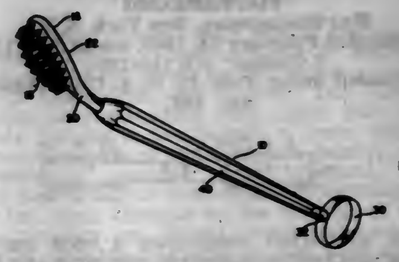
5. In a device for reconditioning the gasket groove of a conventional brake pipe and signal hose coupling, a mounting member, means carried by said mounting member to secure it to said coupling, an elongated tool bit having a cutting end portion contoured and dimensioned to clean out the aforesaid gasket groove, and adjustable means intermediate said mounting member and tool bit to position the latter with its cutting end portion in position to clean said gasket groove, said adjustable intermediate means including a rotatable member which is operable to impart to said tool bit a rotational movement causing it to clean said groove, said means for securing said mounting member to said coupling consisting of a plurality of parts carried by said mounting member one of which is located at one side of the part of the coupling which is furnished with the gasket groove and another co-operative part of said plurality of parts being located at the opposite side of the part of the coupling which is furnished with said gasket groove, said two co-operating parts having oppositely directed face portions abuttable against conventional parts of the coupling to clamp the coupling between them.

2,651,067
TOOL FOR CLEANING WASTE PIPES
William J. Collison, Pasadena, Calif., assignor of fifty per cent to Marian L. Collison, Bakersfield, Calif.
Application October 24, 1949, Serial No. 123,236
1 Claim. (Cl. 15—104.3)



As a new article of manufacture, a tool for cleaning waste pipes, comprising a cylindrical persuader of substantially the same thickness from end to end, said persuader being diametrically split throughout its length and comprising a primary section and an auxiliary section, said sections provided with flat contacting faces the greater part of their diameter, said auxiliary section provided with two pin-receiving apertures, said primary section provided with two threaded apertures registering with said pin-receiving apertures of said auxiliary section, pins slidably mounted in said pin-receiving apertures and threaded at one of their outer ends in said threaded apertures, said persuader being externally screw-threaded one-half of its length, said persuader beyond its screw threads and at one end having flat portions on its peripheral surface for receiving a monkey wrench, said sections of said persuader being helically grooved internally throughout their lengths to act similar to screw thread sockets, a coiled snake threaded through said persuader and in engagement with said sockets, and a handle secured to the outer end of said snake.

2,651,068
CONFORMABLE TOOTHBRUSH AND TONGUE SCRAPER
Kaichi Seko, Seattle, Wash., assignor of one-fourth to Min Tsubota, Seattle, Wash.
Application November 18, 1950, Serial No. 196,287
5 Claims. (Cl. 15—111)



5. A toothbrush, comprising: an elongated handle; a brush supporting member secured to one end of said handle; bristle tufts secured to one side of said brush supporting member; a portion of said brush supporting member extending at an angle to the longitudinal axis of said handle, positioning the tips of said bristle tufts close to the longitudinal axis of said handle; a swivel member secured to the other end of said handle by a swivel connection, said swivel member having an opening extending therethrough centered on the longitudinal axis of said handle, whereby, when the user positions a little finger in said opening and supports said handle with other digits, said bristle tufts will tend to assume a position normal to tooth surfaces against which they are pressed, and said swivel member having a sharpened edge extending laterally of said longitudinal axis of said handle forming tongue scraping means.

2,651,069
WRINGER MOP
Leslie B. Hoffman, Chicago, Ill., assignor to Dayton Mfg. Co., Inc., Chicago, Ill., a corporation of Illinois
Application May 18, 1950, Serial No. 162,600
1 Claim. (Cl. 15—119)

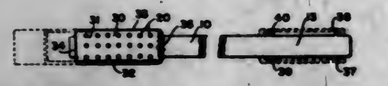
A mop comprising a handle, a rigid bell-shaped housing carried by the handle, said housing being fabricated from two like halves each including matching portions defining a socket to receive the handle, end walls on the housing having

aligned U-shaped openings therein, rollers in and extending beyond the end walls of said housing on each side of the U-shaped openings, a channel arranged in the housing and projecting through the end wall openings, a sponge carried by the channel and extending outwardly between



the rollers, a lever mounted directly on the handle, and links extending through openings in the housing for connecting the lever with the channel, said lever and links providing mounting and actuating means for the channel whereby the channel can be moved to draw the sponge inwardly between the rollers.

2,651,970
TOOTHBRUSH
Max Zimmerman, New York, N. Y.
Application February 16, 1949, Serial No. 77,263
2 Claims. (Cl. 15—185)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A toothbrush comprising a body member having longitudinally grooved edge sides and limit stops at the ends of said grooves, a mass of bristles carried on a face of said body member, and a cover member adapted when in one position to encase said bristles, said cover member carrying pins engaged slidably and rotatably in said grooves and adapted to be limited in travel by said stops, and carrying detents adapted to engage said grooves removably, whereby said cover member is retained on said body member and is slidable and rotatable relative said body member to remove said cover member from such encasing relation and to secure said cover member at a selected one of a plurality of positions on said body member.

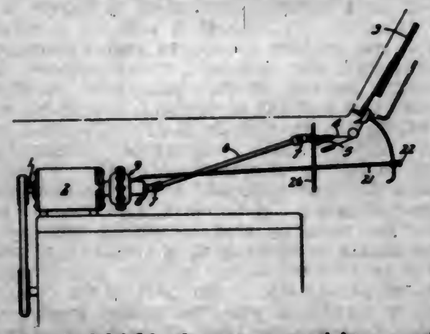
2,651,971
MITT FOR DETACHABLE CLEANING PADS
Dora Frances Dyer, Astoria, and Herbert A. Coe, Port Washington, N. Y.
Application May 3, 1948, Serial No. 25,878
7 Claims. (Cl. 15—227)

6. A mitt of the class described adapted to be worn on either hand of the wearer, comprising a pair of complemental panels defining a pocket portion for the reception of the fingers of the wearer's hand, the outer face of one of said panels constituting a pressure-applying face when the mitt is worn on the right hand, the outer face of the other said panel constituting a pressure-applying face when the mitt is worn on the left hand, and securing means extending along the lateral edges of said panels defining said pocket portion, said securing means adapted to detachably receive and hold a pad of material across either pressure-applying face of the pocket



portion when the mitt is worn on either hand of the wearer.

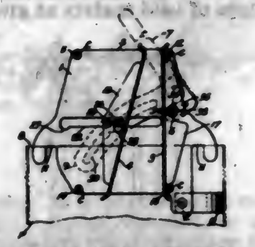
2,651,972
WINDSHIELD CLEANER SYSTEM
Anton Rappl, Eggertsville, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application October 6, 1948, Serial No. 53,017
5 Claims. (Cl. 15—253)



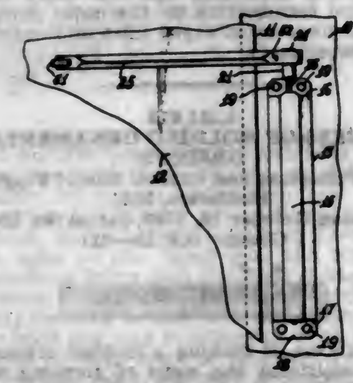
1. A windshield cleaner comprising a wiper, a rotary shaft for operating the same, and a hydraulic clutch operatively connecting the shaft to the wiper and including a liquid holding chamber with cooperating and opposed driving and driven clutch members coaxially arranged in the chamber, one of said members being mounted for axial movement away from the cooperating member, and manual means for axially adjusting said movable member whereby to regulate the wiper speed.

2,651,973
MOP WRINGER
William C. Ree, Elyria, Ohio, assignor to The Colson Corporation, Elyria, Ohio, a corporation of Ohio
Application September 25, 1947, Serial No. 776,089
6 Claims. (Cl. 15—261)

3. A mop squeezer adapted to be mounted on the brim of a pail having side plates and first and second perforate pressure plates, said first pressure plate being movable with respect to said second pressure plate, said second pressure plate being secured to said side plates near the ends thereof remote from said first plate, said side plates having horizontal slots therein, means for moving said first pressure plate including a rotatable shaft carried by said side plates adjacent said ends thereof and more remote from said first pressure plate than said second pressure plate, work arms secured to the ends of said rotatable shaft outside said side plates and rotatable with said shaft, a movable shaft engaging said first pressure plate and having its ends carried in said slots of said side plates, said work arms having curved slots therein for slidably receiving the said ends of said movable shaft whereby said movable shaft is advanced along the slots of said side plates and the slots of said work arms as said work arms are swung about the axis of said rotatable shaft.

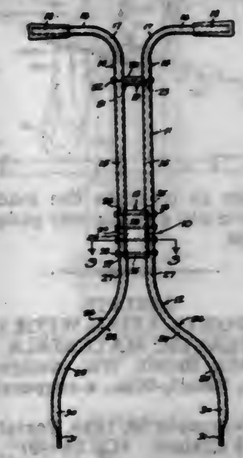


2,651,974
ADJUSTABLE DOOR CLOSING DEVICE
George W. Slepa and Robert E. Slepa, Chicago, Ill.
Application December 23, 1950, Serial No. 202,166
2 Claims. (Cl. 16—80)



1. A door closing device comprising, in combination, an elongated housing having an unbroken front wall, side walls and end walls, said end walls having apertures to receive mounting screws for mounting the housing on a wall surface adjacent to a door opening having a door associated therewith for closing the opening, said end walls having aligned bearing passages, a shaft extending through and journalled near its ends in said bearing passages, a notched element in said housing carried fixedly on said shaft adjacent one end wall, a torsion spring surrounding the shaft portion within the housing having one end anchored to the notched element and its other end anchored to the other end wall, a lever engageable with the shaft to rotate said shaft so as to tension said spring, a lock pin mounted permanently in the housing wall adjacent to said notched element and movable into engagement with the notched element to hold the spring tensioned during manipulation of the lever for the purpose of tensioning the spring, and a lift spring cooperating with the pin to cause it to become disengaged from the notched element when tension is maintained by said lever when the latter is positioned to bear against the door.

2,651,975
SEPARABLE MACHINE OR EQUIPMENT HANDLE
Claude Vincent O'Maley, Richmond, Ind., assignor to The Moto-Mower Company, Detroit, Mich., a corporation of Michigan
Application August 16, 1950, Serial No. 179,826
3 Claims. (Cl. 16—111)

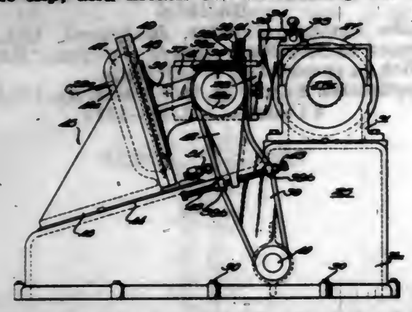


1. A machine or equipment handle comprising an upper handle unit having a pair of approximately parallel elongated frame members spaced laterally apart from one another and having oppositely and outwardly bent upper ends collectively forming a handle bar; a lower handle unit having a pair of spaced yoke members with approximately parallel upper portions also spaced laterally apart from one another substantially the same distance as the spacing of said frame members and placed substantially end to end with said frame members, said yoke members having outwardly bent lower portions with lower ends configured for attachment to the machine; and a coupling structure having a width substantially equal to the lateral spacing of said frame members and said yoke member upper portions disposed between said upper portion of said frame members and between said yoke members, said coupling structure having a length relatively short in proportion to its width and overlapping said frame members and yoke members only in the immediate vicinity of their adjoining ends whereby said coupling structure also serves as a lower hand grip for handling the machine or equipment to which it is attached.

2,651,976
THERMOPLASTIC FILM-FORMING MACHINE
Lloyd Hornbostel, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application August 17, 1949, Serial No. 110,997
12 Claims. (Cl. 18—9)

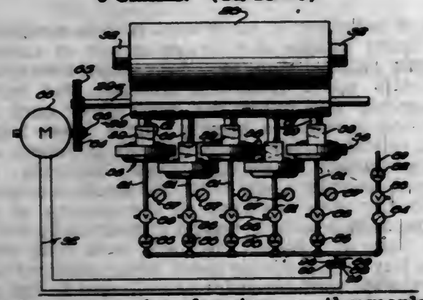
3. Apparatus adapted for forming films from thermoplastic material which comprises a roll, a floating shoe coacting with said roll to define a nip capable of retaining a mass of thermoplastic material therein, a pivot arm mounting said shoe for arcuate movement about a pivot point remote from said nip, fluid pressure means supporting the weight of said shoe and loading the shoe about said pivot point toward said roll, means for holding said shoe against rotation and means for driving said roll to shear off a film

from a mass of thermoplastic material supported in the nip, and means for controlling the fluid



pressure means to regulate the load exerted by said shoe at said nip and thereby gauge the thickness of the film.

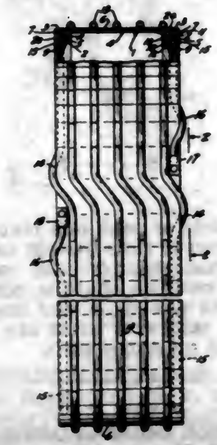
2,651,077
MACHINE FOR COATING WITH THERMOPLASTIC MATERIALS
Edgar J. Justus, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application December 20, 1950, Serial No. 202,623
6 Claims. (Cl. 18—8)



3. Apparatus for forming a thermoplastic film from thermoplastic material which comprises a pair of relatively rotatable nip-defining elements including a relatively large rotatable shearing element and a smaller longitudinally deflectable doctor element, retaining means for normally holding said doctor element against rotation, individual fluid pressure responsive diaphragm means spaced along the length of said doctor element for urging said elements together to define said nip and to control distortion of said doctor element, means for controlling fluid pressure supplied to said diaphragm means, means for rotating said doctor element upon release of said retaining means for cleaning the same and for presenting a new doctor element face to said nip, and control means for preventing rotation of said doctor element despite release of said retaining means when said diaphragm units urge said doctor element into nip-defining relation with said shearing element.

2,651,078
MOLD FOR RETREADING PNEUMATIC TIRE CASINGS
Raymond P. Hawkinson, Minneapolis, Minn., assignor to Paul E. Hawkinson Company, Minneapolis, Minn., a corporation of Minnesota
Application October 20, 1952, Serial No. 315,617
3 Claims. (Cl. 18—18)

1. In a device of the class described, a cylinder-like matrix formed from sheet metal and having laterally-spaced radially inwardly projecting endless V-shaped tread material confining flanges adjacent its opposite side edges, and a tubular heating conduit wound generally spirally of said matrix and rigidly secured thereto, the opposite end portions of said conduit extending over the adjacent edges of said matrix at given points and



contacting the outer side faces of said V-shaped confining flanges for substantially one convolution, the extreme outer end portions of said conduit crossing back over the side edges of said matrix and terminating on the outer peripheral surface thereof in enlarged inlet and outlet terminals respectively.

2,651,079
PROCESS OF MOLDING ORNAMENTAL OBJECTS
Jack Michaelson and Samuel Robert Finglass, Baltimore, Md.
Application October 12, 1949, Serial No. 120,878
1 Claim. (Cl. 18—61)



In a process of making a molded ornamental object comprising the steps of forming a plurality of bodies into desired configurations, forming the bottom of a mold cavity a plurality of recesses corresponding in shape to the configurations of said bodies, placing said bodies into said mold in a horizontal position with a portion only of said bodies extending into said corresponding recesses, filling the spaces between the bodies and between the mold and the bodies with a plastic material to form a background panel, allowing the bodies to become firmly set in the background panel, thereby forming the ornamental object, removing the object from the mold, and finishing off the extended portions of said bodies so that the bodies and the background panel are of the same height.

2,651,080
METHOD AND APPARATUS FOR CLEANING FIBER TREATING MACHINES
Carl Adolf Wied, Stockport, N. Y., assignor of one-fifth to I. Richard Paris, Washington, D. C.
Application July 17, 1947, Serial No. 761,644
14 Claims. (Cl. 19—100)

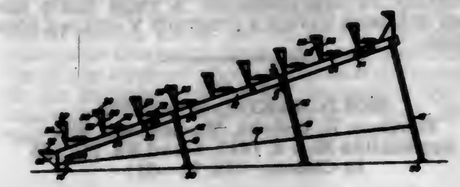
14. The method of cleaning a toothed rotating working surface of a textile fiber working

machine, which comprises simultaneously subjecting an area of the surface to a combing action, a jet of compressed air and suction, the dirt



in the area being thus loosened and removed, and simultaneously causing the action area to reciprocate lengthwise of the surface from end to end as the surface rotates.

2,651,081
PORTABLE GRANDSTAND
Stacy S. Sterer, Jr., Atlanta, Ga., assignor to Steel, Inc., Scottdale, Ga., a corporation of Georgia
Application February 1, 1950, Serial No. 141,737
2 Claims. (Cl. 20—1.126)



1. A portable grandstand comprising a plurality of inclined horizontally spaced parallel stringers, means for supporting said stringers comprising a plurality of graduated A-shaped members, each of the A-members having a slot in its apex at the upper end and overlapping web portions below said slot, said stringers being of I-beam construction with T-shaped portions slidably received in said slots and resting on said upper ends and said overlapping webs, U-shaped brackets on both sides of said stringers having open vertical sides, and said A-shaped members being received in said open sides adjacent their respective slots.

2,651,082
WINDOW STRUCTURE
John V. Rylander, Detroit, Mich.
Application February 2, 1950, Serial No. 141,986
3 Claims. (Cl. 20—52.2)

1. A window construction comprising a frame having parallel jambs, a header and a stool, guide channels in said jambs, lateral recesses in a selected jamb, the guide channels of said selected jamb opening into said lateral recesses, said selected jamb having enlarged pockets, each of said pockets comprising a transverse recess intersecting a guide channel and opening into a lateral recess, upper and lower sashless panes slidably received in said channels, a crossbar on the lower edge of said upper pane and on the upper edge of said lower pane, said lateral recesses providing lateral clearance permitting lateral insertion and removal of said panes and said pockets permitting lateral insertion and removal of said crossbars of said panes, resilient means in said lateral recesses urging said panes against the other jamb, and channels in said header and



stool for receiving the upper and lower edges of said upper and lower panes respectively.

2,651,083
WINDOW STRUCTURE
Michael J. Nardulli, Elmwood Park, Ill., assignor to Michael J. Nardulli, Angelo F. Naples, and Peter F. Nardulli, as trustees, and known as Western Engineering Trust
Application October 12, 1949, Serial No. 121,975
2 Claims. (Cl. 20—52.4)



2. In a window structure, a frame having side jambs, a transverse upper member and a lower sill, means on the respective jambs having a pair of opposed parallel vertical guideways of predetermined width and each embodying an inner stop and an outer stop, an upper sash and a lower sash both disposed in said pair of guideways and each having a sash frame embodying top, bottom and side sash frame elements and said frames each being of a thickness substantially less than the said predetermined width of said guideways, said upper and lower sash being disposed in said pair of guideways with their edges located in said guideways with said upper sash engaging said outer stops and said lower sash engaging said inner stops, and check rails fixed respectively on the inner face of the upper frame element of said upper sash and the outer face of the lower frame element of said lower sash to make said upper frame element of said upper sash and the lower

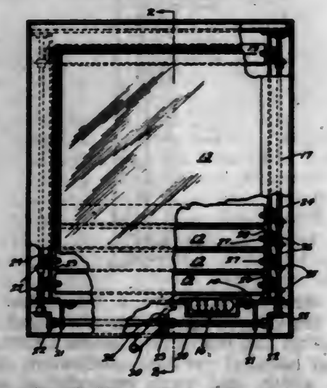
frame element of said lower sash of such thickness as to completely fill the space between said inner and outer stops.

2,651,084
STORM WINDOW SASH FRAME
Ralph Goldberg, Denver, Colo.
Application November 10, 1949, Serial No. 126,632
1 Claim. (Cl. 20—55)



A window sash frame of extruded aluminum having a cross section comprising two rectangular channel shaped members having their bases at right angles to one another, the open side of one of the channel members facing the inner periphery of the frame, the open side of the other channel member facing the wall of the building with which the frame is to be used, the latter channel member having its flanges inturned sufficiently to partially close its open side, the second member being offset in the direction of its open side from the first member an amount at least as great as the width of the first member, the second member being outward of but adjacent the periphery of the frame portion formed by the first member, and a web connecting only the adjacent corners of the channel members.

2,651,085
COMBINATION WINDOW AND BLIND
Philip E. Kopp, Dover, Ohio
Application January 12, 1952, Serial No. 266,167
2 Claims. (Cl. 20—56.5)



1. In an insulating window having a rectangular frame with spaced glass receiving channels and panes of glass positioned therein, apertured vertically positioned members in said frame adjacent the sides thereof, a plurality of slats arranged in spaced parallel relation to one another, each of said slats having stub shafts on their ends extending through opposite pairs of said apertures in said vertical members, gears on said stub shafts on the opposite side of said vertical members with respect to said slats, shafts positioned vertically in said frame adjacent said gears and secondary gears on said shafts engaging said gears on said stub shafts, a horizontal shaft carried by said frame in a part thereof remote from said slats, and a crank on said frame, interengaging gears on said horizontal shaft and said crank for simultaneously rotating said vertical shafts.

2,651,086
COVE STRIP
Ralph Corson, Arlington, N. J., assignor to Congoleum-Nairn Inc., a corporation of New York
Application December 24, 1949, Serial No. 134,947
5 Claims. (Cl. 20—74)



1. As an article of manufacture a preformed elongated cove unit comprising a pile of ribbons of different widths of flexible material which are oriented lengthwise and which are secured together along the longitudinal dimension of the unit with opposed marginal surfaces of said ribbons separable and portions of said ribbons adjacent the margin thereof capable of individual flexure, said cove unit being adapted for placement along the intersection between planes intersecting at approximately a right angle and when so placed having a generally V-shaped cross section.

2,651,087
MOLD MAKING MACHINE
Harrison E. Fellows, Wauwatosa, Wis.
Application May 8, 1947, Serial No. 746,835
12 Claims. (Cl. 22—31)



1. A mold making unit comprising the combination of a pair of conveyors disposed adjacent each other in substantially parallel relation, the delivery end of one conveyor terminating adjacent the receiving end of the other, one of the conveyors having a flask filling station intermediate its ends, together with an inverting machine connecting said ends and providing means for transferring work from the said delivery end of one conveyor to the said receiving end of the other, the inverting machine comprising a machine base provided with a pintle, an invertible sub-frame pivoted on the pintle and comprising spaced conveyor sections adapted in the relatively inverted positions of the sub-frame to register endwise with the respective conveyors aforesaid, and means for moving one of said sections toward the other whereby work may be clamped between said sections during the inverting movement of said sub-frame.

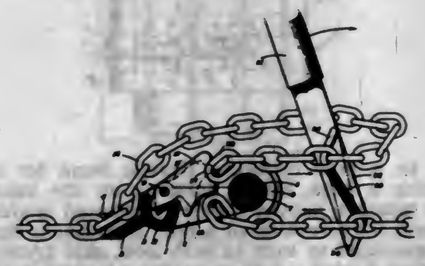
2. In a device of the character described, the combination of a draw machine and a close machine each comprising a table and an elevator, the table of each machine being independently movable on its elevator between retracted and elevated positions, a relatively stationary conveyor section extending between the respective tables at the level of their respective retracted positions, and a second conveyor in an elevated position above the respective tables and extending between said machines.

2,651,088
HORN GATE MECHANISM
Louis W. Williamson, Minneapolis, and Herman Runsberg, Hopkins, Minn., assignors to Minneapolis-Moline Company, Hopkins, Minn., a corporation of Minnesota
Application July 19, 1950, Serial No. 174,752
7 Claims. (Cl. 22—53)



1. Horn gate mechanism of the character described, comprising a pattern plate having a center and a plurality of patterns arranged in a circle about said center, the plate also having an equal number of horn openings in a circle closer to said center and each on a radius from the center to the adjacent pattern, an upright guide located on the center of said plate, a slide movable upwardly and downwardly on the guide, a plurality of horn carriers equal in number to the patterns, means pivotally supporting the carriers for swinging movements in vertical and radial planes, horns carried by the carriers and swingable therewith from retracted positions upward and outward through the said openings and to the patterns, and means connecting the slide and carriers for swinging the horns upon upward and downward movements of the slide.

2,651,089
BINDER FOR LINK CHAINS
Wilson Call, Oildale, Calif.
Application September 4, 1951, Serial No. 245,927
2 Claims. (Cl. 24—116)



1. A binder, for a link chain, comprising an elongated body having a chain hook at the rear end and a transverse-axis, centrally circumferentially grooved roller journaled in the front end portion of said body between its sides, the body being open therethrough between said sides for a distance rearwardly of the roller, and a plurality of locking dogs pivoted for independent movement on a transverse axis in the body between the sides rearwardly of the roller and projecting toward the latter for alternate wedging engagement with corresponding links of a chain which extends about the roller at the rear with the edgewise links traveling in the roller groove and the flatwise links riding the periphery of the roller; one locking dog being formed and disposed to engage the immediately adjacent edgewise link of the chain, and another dog being formed and disposed to engage the immediately adjacent flatwise link.

2,651,090
BELT BUCKLE
Clement S. Marien, Attleboro, Mass., assignor to Swank, Inc., a corporation of Delaware
Application October 6, 1950, Serial No. 188,863
4 Claims. (Cl. 24—178)



1. In a belt buckle a flat frame of a width no greater than the belt to be held and loops at either end thereof, each projecting laterally in the plane of the flat frame and then forwardly at right angles to the frame and of a greater width than the frame to slidably receive the belt therethrough, one of said loops having a tongue pivoted along its edge nearest the loop at the opposite end of the frame and on an axis located substantially at its back portion in the plane of the frame to swing forwardly through an opening in the belt to engage the forward portion of said loop and block sliding movement of the belt through the loop, the free end of said tongue terminating at substantially the same distance from the pivotal axis as the distance of the forward portion of said loop from said axis.

2,651,091
EDGE TO EDGE FASTENING
Frederick Alfred Priestley, London, England
Application July 30, 1947, Serial No. 764,695
In Great Britain January 28, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires January 28, 1963
1 Claim. (Cl. 24—205.1)

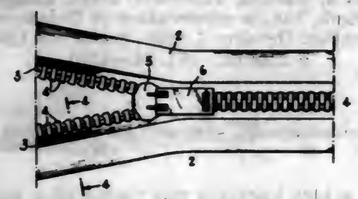


A separable fastener comprising in combination, oppositely disposed stringers; two rows of interlocking zipper elements, one carried by each of said stringers, each of said zipper elements having two spaced lock portions at its engagement face; aligned recesses formed in each of said rows of zipper elements for receiving the edges of said stringers, the said recesses being laterally open towards the adjacent zipper elements of the same row; a slot extending from each of said recesses to the engagement face of the zipper element; a sealing strip provided in the said slots of each row of zipper elements; and sealing portions of yieldable material provided at the lateral faces of said zipper elements so as to cover the said lateral openings of said recesses and so as to engage with the sealing portions of the adjacent zipper elements.

2,651,092
TAPE FOR SLIDE FASTENERS
Neel J. Feaux, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania
Application November 14, 1950, Serial No. 195,617
4 Claims. (Cl. 24—205.16)

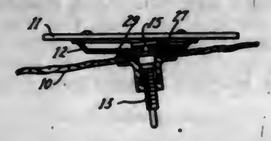
1. A tape for slide fasteners of the class described comprising a strip of plastic material having a channel arranged on opposite sides thereof along one edge, a pair of fabric cords with one disposed in each of said channels and adhesively secured to said strip so as to provide

a beaded edge therealong, each of said channels adapted to act as a seat for said cords so as to



aid in maintaining said cords in position along said edge.

2,651,083
SNAP FASTENER
James F. Lynch, Los Angeles, Calif., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application February 3, 1950, Serial No. 142,220
2 Claims. (Cl. 24—224)



1. A snap fastener comprising in combination a thin sheet metal plate and a stud adapted to be detachably connected to said plate, said stud having a head connected to a shoulder by a neck, said plate having a well stamped therein, an attaching flange extending from the perimeter of said well, a bottom in said well having upper and lower levels connected by an inclined step, said bottom having a slot therein provided with a narrow portion extending transversely through the length of said step, said slot having an enlarged end located within said upper level of said bottom and the opposite end of said slot terminating in said lower level of said bottom at a distance from said step greater than one half of the sum of the dimensions of said neck and head extending perpendicular to the length of said neck, said shoulder of said stud being larger than said head, said enlarged end of said slot being adapted to receive said head and exclude said shoulder, said narrow portion of said slot being adapted to receive said neck and exclude said head and shoulder, the height of said step being greater than the length of said neck, said step being adapted to be deflected by the pressure exerted thereon between said head and shoulder when said head is above said step, and said step being adapted to spring back to its undeflected position after the passage of said head over said step, and thereby restrain the return of said neck of said stud to the opposite end of said slot.

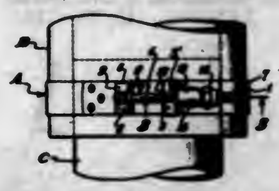
2,651,094
BAND CLAMP
Ralph O. Dodge, West Los Angeles, Calif., assignor, by mesne assignments, to Wheelcraft Corporation, Azusa, Calif., a corporation of California
Application March 26, 1951, Serial No. 217,599
2 Claims. (Cl. 24—279)

1. A band clamp, including: a generally circular banding member adapted to encircle a tubing and having spaced-apart end portions, one of said end portions being notched at the edges thereof; a locking element rigidly secured adjacent each of said end portions, each of said locking elements having an upstanding apertured wall portion and side portions formed integrally therewith extending forwardly and inwardly to said banding member, said side portions each having a longitudinally curved inner edge adapted to seat upon said banding member and bear inwardly thereagainst upon constriction of said banding member, one of said locking elements having integrally formed therewith a longitudinally arcuate strap portion, said strap



portion having tabs formed integrally therewith engageable with said banding member notches to rigidly secure said locking element to said banding member; a threaded draw bolt passing through the wall portion apertures of the locking elements and bridging the space therebetween; and a nut threaded on said bolt, said bolt and nut being adapted to draw together said locking elements and the end portions of the banding member to constrict the banding member against the tubing.

2,651,095
HOSE CLAMP
Don B. Kates, Los Angeles, Calif.
Application October 1, 1951, Serial No. 249,839
5 Claims. (Cl. 24—279)

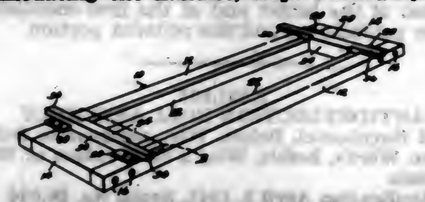


3. In a hose clamp, a flexible band for embracing a hose, means forming on the band a loop member having a pair of opposed openings therein for reception of a bolt, a trunnion member mounted to turn in said loop, said trunnion member having a bolt-receiving opening extended therethrough, adapted to register with said pair of openings, portions on said members slidably interengaged between said pair of openings restraining axial movement of said trunnion member and permitting relative turning movement between said members, and means on said band for pivotally mounting a bolt for extension through said openings.

2,651,096
PORTABLE MOLD
Isaac Stees, Harrisburg, Pa.
Application August 15, 1951, Serial No. 241,907
2 Claims. (Cl. 25—119)

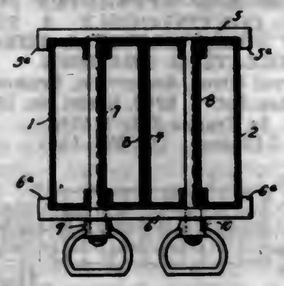
2. In a portable mould for moulding slabs such as lintels, an elongated base frame having elongated side bars, spacers extending between the side bars adjacent opposite ends thereof, elongated longitudinally extending moulding strips

removably disposed within the base frame adjacent the side bars, elongated moulding panels disposed within the base frame adjacent the spacers and in abutting relation to the moulding strips, handles carried by the moulding panels and extending outwardly therefrom in overlying relation to the side bars, an elongated hopper mounted on the base frame in engagement with the moulding strips and said hopper having notches therein adjacent opposite ends for accommodating the handles, stops carried by the



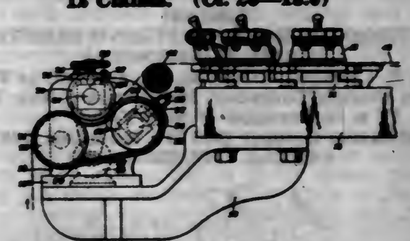
side bars and projecting upwardly therefrom adjacent opposite ends thereof the hopper having notches therein for receiving the stops and holding the hopper in proper position on the base frame, the moulding panels having extensions thereon which lie between the moulding strips adjacent opposite ends thereof, and the moulding strips having recesses extending thereinto and opening through opposite ends thereof for receiving a tool by which the moulding strips may be lifted out of the base frame.

2,651,097
CLAMP FOR SUPPORTS FOR SOLID CEILINGS
Willy Stahn and Hermann Wandke, Lubeck, Germany
Application June 26, 1951, Serial No. 233,645
In Germany March 9, 1950
2 Claims. (Cl. 25—131.5)



1. A clamp for assembling a symmetrical transverse structural member of adjustable length, said structural member comprising at least four component beam members of the same rectangular overall cross-sectional dimensions, said structural member having a cross-section including at least two of said beam members at all points throughout its length and at least four beam members in the portion thereof held together by said clamp, said clamp comprising: an upper plate member having two downwardly extending parallel bolts threaded at their lower end portions fixedly secured thereto, the adjacent sides of said bolts being spaced from each other to hold two of said beam members slidably therebetween while preventing appreciable rotation thereof, said upper plate member having two downwardly extending lateral flange portions comprising inner flat beam engaging surfaces parallel to the axes of said bolts and perpendicular to a plane passing through said axes, each beam engaging surface being spaced from the nearest bolt to hold one beam member slidably between said surface and said bolt while preventing appreciable lateral movement of the upper portion of said beam member; a lower plate member having apertures therein adapted for passage of said bolts therethrough and two upwardly extending lateral flange portions comprising inner flat beam engaging surfaces, said beam engaging surfaces of said lower plate member being substantially coplanar with said beam engaging surfaces of said upper plate member when said bolts are passing through said apertures; and two nuts adapted for engagement with said threaded portions of said bolts, whereby said lower plate may be drawn upwardly to clamp said beam members between said upper and lower plates.

2,651,098
TREATMENT OF FABRIC
Alexander Melville, Southport, England, assignor to Bleachers' Association Limited, Manchester, England
Application November 23, 1951, Serial No. 257,763
In Great Britain December 1, 1950
12 Claims. (Cl. 26—18.6)



12. A machine for treating fabric comprising in combination independent compressive shrinking heads, each capable of separate adjustment enabling the degree of shrinking imparted to fabric passing therethrough to be regulated, a drive for each head, and a stenter, said heads being attached to the frame of said stenter adjacent to the point at which the fabric enters the stenter and being positioned to act only on the selvedge portions of fabric supplied to the machine leaving the remainder of said fabric unshrunk, and said stenter being arranged so as to grip said fabric subsequent to the shrinking of its selvedge portions and subject the whole width of said fabric to a weft-wise tension.

2,651,099
METHOD OF ROLLING TITANIUM SHEETS
James A. Roemer, Warren, Burt H. McKibbon, Niles, and Joseph R. Corry, Mineral Ridge, Ohio, assignors, by mesne assignments, to Mallory-Sharon Titanium Corporation, Niles, Ohio, a corporation of Delaware
No Drawing. Application November 17, 1950, Serial No. 196,252
12 Claims. (Cl. 29—19)

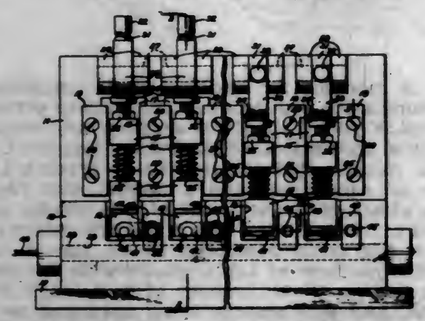
1. The method of hot rolling thin gauge titanium sheets including the steps of heating and rolling intermediate gauge titanium sheets from sheet bar, sandwiching at least one intermediate gauge titanium sheet between two sheets of a dissimilar metal having a lower heat conductivity than titanium to form a sandwich pack, heating and rolling the pack to desired final titanium sheet gauge, and protecting the titanium sheet material from rapid heat loss and excessive oxidation by the dissimilar metal sheets during heating and rolling of the sandwich pack to final titanium sheet gauge.

2,651,100
MANUFACTURE OF ELECTRICAL CAPACITORS
Richard Alfred Grouse, London, England, assignor to A. H. Hunt (Capacitors) Limited, London, England, a British company
Application May 23, 1949, Serial No. 94,261
In Great Britain April 29, 1949
2 Claims. (Cl. 29—25.42)



1. A process for attaching terminal wires to a roll capacitor which has some of its electrodes extending to one end of the roll and some to the other end, comprising spraying the ends of the roll with metal, inserting a terminal wire through the center of the roll so that it projects at both ends, soldering the terminal wire to the sprayed metal at each end of the roll and thereafter passing a current sufficient to fuse the terminal wire within the capacitor while keeping the ends of the wire external to the capacitor below fusion temperature by conduction of heat therefrom.

2,651,101
METHOD OF MANUFACTURING ELECTROSTATIC CONDENSERS
Dale R. Clemens, Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 25, 1944, Serial No. 560,302
4 Claims. (Cl. 29—25.42)



1. The method of making condensers, which comprises applying to a plurality of rolled condensers sufficient pressure to flatten the condensers and stabilize the shapes and capacities thereof, heating the condensers while they are under pressure sufficiently to remove most of the moisture included therein, releasing the pressure on the condensers, assembling under pressure the condensers while they are still hot in combinations of a predetermined capacity, simultaneously heating the stacked condensers and applying vacuum thereto to remove the remainder of the moisture therein, impregnating the stacked condensers, and potting the stacked condensers.

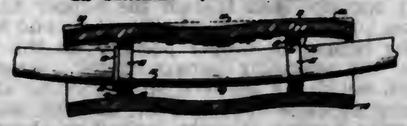
2,651,102
BROACHING TOOL
Helge W. Jespersen, Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application June 8, 1949, Serial No. 97,827
5 Claims. (Cl. 29—95.1)

5. A broach comprising an elongated integral member having along its length a series of pairs of frusto-conical cutters, a first cutter of each pair having a predetermined larger diameter and a second cutter of each pair having its end of smaller diameter adjacent to the large end of the first cutter and larger than said larger end,



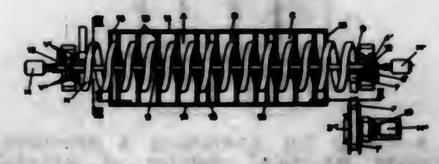
each of said second-mentioned cutters being relieved on one side thereof sufficiently that a portion of the larger end of the first-mentioned cutter projects beyond the relieved portion.

2,651,103
ANTIDEFLECTION ROLL ASSEMBLY
Lloyd Hornbostel, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application April 9, 1948, Serial No. 20,010
12 Claims. (Cl. 29—123)



1. A roll and axle assembly adapted for paper making machinery comprising a roll, a pair of annular bearing means disposed internally of the roll each spaced inwardly from the roll ends, a through axle extending through and beyond the roll ends, annular bearing means on the axle registering with the roll bearing means and supporting the roll wholly thereon and a thin layer of flexible rubber-like material interposed between each of the cooperating roll and axle bearing means.

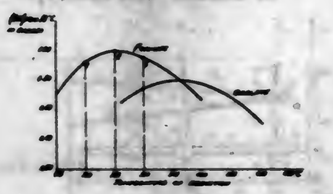
2,651,104
METHOD OF AND APPARATUS FOR DISPLACING CONTINUOUSLY A FLEXIBLE BAND OF SOLID MATERIAL THROUGH A LIQUID TREATING CHAMBER
Marcel Giret, Ancerville, France
Application July 6, 1949, Serial No. 103,278
In France July 7, 1948
7 Claims. (Cl. 29—148)



1. A method of treating a flexible metal band in treating tanks comprising continuously helically pre-forming said band outside said treating tanks along a curved path, feeding continuously said helically pre-formed band through said treating tanks along a natural helical path of substantially constant curvature, supporting said band in said tanks at points above said treating tanks, and leading said helically formed band out of said treating tanks.

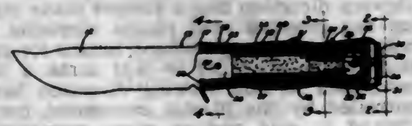
7. An apparatus for treating a flexible metal band comprising: treating tanks, means located outside said treating tanks for continuously helically preforming a long flexible band, a horizontal rotative shaft situated above said tanks supporting said helical band in said treating tanks, and means, also situated outside said treating tanks, for leading said band out of said treating tanks and for coiling said band along a curved path.

2,651,105
MANUFACTURE OF PERMANENT MAGNETS
Louis Néel, Grenoble, France, assignor to Société d'Electro-Chimie, d'Electro-Metallurgie et des Aciéries Electriques d'Ugine, Paris, France, a corporation of France
Application July 10, 1947, Serial No. 760,691
In France April 7, 1942
6 Claims. (Cl. 29—155.6)



1. The process of making permanent magnets which comprises decomposing and reducing at a temperature below 500° C. a carbon and oxygen containing compound of ferromagnetic metal which is reducible at such temperature to produce a ferromagentic powder containing carbon of the order of 0.2 to 2.5% and traces of oxygen, shaping magnets from the powder by compacting it at a temperature below 500° C. and at which objectionable crystal growth does not occur, and magnetizing the so shaped agglomerate.

2,651,106
KNIFE HANDLE CONSTRUCTION
Alfred Breitsko, Rockford, Ill.
Application October 23, 1948, Serial No. 56,149
3 Claims. (Cl. 30—125)



1. In combination, a blade having a tang of reduced width defining spaced shoulders, a tubular member having one end formed as a solid portion with a slot extending axially inward from said one end to snugly receive the tang, said tubular member defining an axially extending chamber accessible at the opposite end of the tubular member, means rigidly securing the blade and tubular member together at the tang and said solid portion of the tubular member, a guard mounted on the tang against said shoulders, providing an annular flange extending on opposite sides of the tubular member at said one end thereof, said tubular member having an externally threaded portion at its other end, annular means detachably mounted on the exterior of the tubular member and forming a hand grip, a collar threadedly mounted on said threaded portion of the tubular member spaced from the last-mentioned end and adjustable thereon to clamp the annular means between it and said flange at said one end of the tubular member, and a chambered head threadedly mounted on said threaded portion of the tubular member beyond the collar adapted to be screwed down against the collar as a stop to close the open threaded end of the tubular member, the chamber in the head forming an extension of the chamber in the tubular member when the head is screwed against the collar.

2,651,107
SHEARING HANDPIECE
Edwin S. Bartlett, Ludington, Mich., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois
Application June 14, 1950, Serial No. 168,127
6 Claims. (Cl. 30—219)



5. In a shearing handpiece, the combination of a handle assembly, a comb mounted on said handle assembly, a cutter disposed in shearing engagement with said comb and movable between preselected positions, means for oscillating said cutter between said preselected positions including a fork having one end drivingly connected to said cutter, pivot means for said fork intermediate the ends thereof, support means on said assembly disposed in spaced relation to said fork, a pin interposed between a point on said fork and said support means for urging said cutter into shearing engagement with said comb, said support means being so disposed that the arcuate paths of said point on said fork and the end of said pin engageable therewith differ slightly in a direction to provide an increase of force transmitted through said pin when said cutter approaches said preselected positions as contrasted with when said cutter is in its center position, said pin being disposed at an angle of less than fifty degrees with the longitudinal axis of said handle assembly.

2,651,108
BLADE AND TOOL HOLDER
Joe B. Weems, Dickson, Tenn.
Application July 30, 1947, Serial No. 764,625
1 Claim. (Cl. 30—337)



In a cutting blade handle, the combination which comprises an elongated body having upper and lower sections, the lower section being rectangular-shaped in cross section and the side and bottom surfaces thereof tapering toward the ends, and the upper section also being rectangular-shaped in cross section and having tapering surfaces on the ends of the sides and upper surface, said lower section having an elongated recess therein with a blade holding socket positioned at

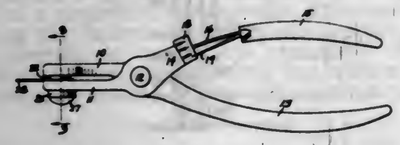
the outer end thereof and located at the end of the handle, said socket being in communication with the recess, said recess also having a spring retaining lower portion with notches in the ends positioned in the inner part thereof, said upper section having an elongated slot therein and said slot positioned to register with the recess of the lower section, a slider positioned in the recess of the lower section, said slider having a web with a knurled upper surface extended through the slot of the upper section, and said slider having a tongue positioned to extend over said blade holding socket to wedge a blade in the socket, an arcuate spring in said spring retaining lower portion of the recess with the ends thereof in said notches and with the intermediate part thereof bowed upwardly frictionally retaining said slider, selectively, with the tongue in blade wedging and in blade releasing positions, and a fastener securing the upper section to the lower section.

2,651,109
COTTON ROLL HOLDER
Jack C. Kanter, Norfolk, Va.
Original application December 22, 1950, Serial No. 202,190, now Patent No. 2,600,001, dated June 10, 1952. Divided and this application May 15, 1952, Serial No. 287,962
3 Claims. (Cl. 32—35)



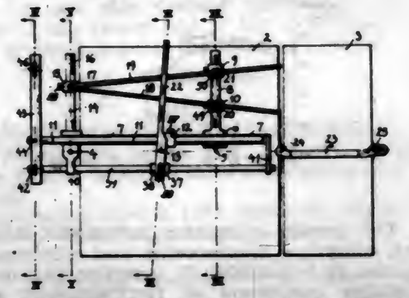
1. In a self-adjusting and self-holding cotton roll holder, the combination of a substantially U-shaped member having its parallel legs provided with means for holding a cotton roll on each leg, the cotton rolls being downwardly disposed, and a third cotton roll holder with its cotton roll upwardly disposed, and an integral resilient connection between the third cotton roll holder and said U-shaped member, for urging the upwardly disposed cotton roll away from the downwardly disposed cotton rolls.

2,651,110
PRESS FOR REMOVING THE SURPLUS MERCURY FROM AN AMALGAM
Howard R. Dike, Portland, Oreg.
Application February 6, 1952, Serial No. 270,219
3 Claims. (Cl. 32—40)



1. A plier having a pair of arms at one end and having a rigid handle attached to one arm and a yielding handle attached to the other arm, said yielding handle having an indicator attached thereto for indicating the pressure applied to said handle, a porous amalgam cup mounted in one of said plier arms and a presser foot mounted in the other arm registering with said cup.

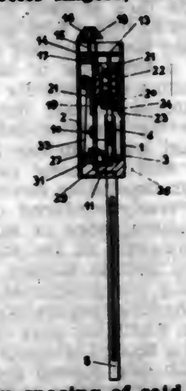
2,651,111
APPARATUS FOR DRAWING A CENTRAL PERSPECTIVE REPRESENTATION
Heinrich Stiebing, Hattingen, (Ruhr), Germany, assignor to Franz Kuhlmann K.-G., Werkstätten für Präzisionsmechanik und Maschinenbau, Wilhelmshaven, Germany, a partnership
Application August 20, 1952, Serial No. 305,419
In Germany May 11, 1951
10 Claims. (Cl. 33—77)



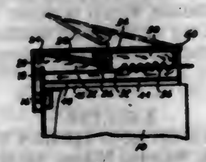
1. Apparatus of the character described for drawing a central perspective representation of an object comprising a drawing board, a viewing direction bar, means for pivotally mounting said bar about an axis extending perpendicularly to said drawing board in stationary relation thereto and representing the viewing center, a first arm rigid with said viewing direction bar, a second arm slidable on said viewing direction bar, a slide on said first arm representing the elevation of the viewing center, adjustable slides guided on said second arm representing the upper and lower ends of vertical lines of the object, radius elements each connecting said slide to said adjustable slides, an element guided along said viewing direction bar, a picture plane representing bar crossing said radius elements and pivotally carried by said element, means for guiding said element parallel to said arms, a linkage connected to said viewing direction bar to be controlled by the pivotal movement thereof and linked to said picture plane representing bar to rock the same in response to such pivotal movement, a rule, guiding means for guiding said rule transversely on said drawing board, and actuating means connected to said viewing direction bar and to said guiding means and being movable in response to a rocking motion of said viewing direction bar about said axis and adapted to transversely shift said rule to positions indicating said vertical lines of said object, all of said bars, said arms and said rule being movable within planes parallel to said drawing board.

2,651,112
GAUGE
Marc Ducloz, Rolle, Switzerland
Application June 9, 1951, Serial No. 230,757
In Switzerland September 23, 1949
9 Claims. (Cl. 33—148)

1. A gauge for indicating variations in diameters of bores comprising a support, a spring-urged pin mounted for rotation and longitudinal motion on said support, a worm gear mounted for rotation together with said pin, a pair of spaced feeler fingers mounted on said support for pivotal displacement to each other and including toothed sectors engaging said worm gear, an element on said pin, a first lever mounted for oscillation on said support and including abutment means, said element engaging said abutment means so as to oscillate said lever, indicator means connected to said lever for marking pivotal displacement of said feeler fingers, and means mounted on said support for limiting the maximum and minimum pivotal displacement of said feeler fingers, whereby upon rotation of said pin spacing of said feeler fingers is caused and variations in said pivotal displacement of said feeler fingers due to variation in diameters of bores are marked by said indicator means.

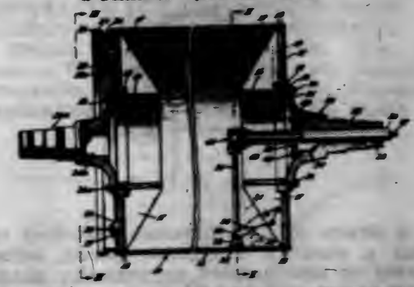


2,651,113
CLOTHES DRIER
William R. Milby, Detroit, and Arthur U. Eslick, Grosse Pointe, Mich., assignors to The Detroit Edison Company, Detroit, Mich., a corporation of Michigan
Application September 19, 1949, Serial No. 116,494
2 Claims. (Cl. 34—78)



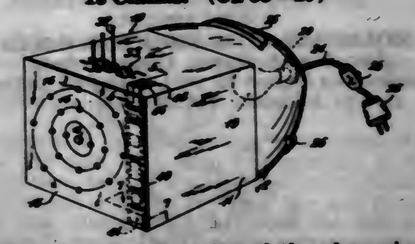
1. In a clothes dryer including means for circulating air through the clothes compartment thence upwardly to a lint collecting chamber, thence to a condensing chamber, thence to air heating means, and thence back to the clothes compartment, comprising a transverse partition adjacent the top of the dryer, side walls extending upwardly from said partition to the top of said dryer, end walls extending upwardly from said partition to the top of said dryer, one of said end walls having an opening therein for the admission of air from the clothes compartment of said dryer, the other of said end walls being of foraminous material, a cover for said dryer adapted to define a lint collecting chamber with said transverse partition, said side walls and said end walls, a lint collecting plate depending from said cover and adapted to extend into said lint collecting chamber, said lint collecting plate being downwardly inclined from the end wall having the opening therein toward the end wall of the foraminous material to define an air passage of continuously decreasing cross-section, means for cooling said plate to cause condensation of a minor portion of moisture from the air passing through said lint collecting chamber, said lint collecting plate being thereby maintained in moist condition to effectively collect substantially all of the lint passing through the space between said transverse partition and said lint collecting plate, means mounting said cover for upward movement to expose said lint collecting plate and the upper surface of said transverse partition and the foraminous end wall for ready removal of lint therefrom.

2,651,114
DRIER DRUM
Lloyd Hornbostel, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application November 30, 1949, Serial No. 130,184
4 Claims. (Cl. 34—124)



1. In a drier drum including a cylindrical shell and a head closing each open end of the shell, the improvements of concentric steam inlet and condensate drainage conduits projecting axially through one of said heads into the interior of said shell, a hollow conduit block carried by said conduits interiorly of said shell, said block having an interior wall defining a first interior chamber communicating with said steam inlet line and the interior of said shell and second interior chamber communicating with said condensate drainage conduit, a dipper engaging the inner periphery of said shell in substantial radial alignment with said second chamber, and a dipper conduit communicating with said dipper and with said second interior chamber to drain condensate from said shell through said drainage conduit said conduit being slidably seated in said block and pivotally movable in and out of its seat therein to swingably move said dipper into and out of wedged engagement with the inner periphery of the shell.

2,651,115
EDUCATIONAL DEVICE
Ralph K. Davies, Berea, Ohio
Application August 25, 1950, Serial No. 181,503
13 Claims. (Cl. 35—19)



1. An educational device of the character described comprising a chamber having a side thereof provided with an aperture representative of the nucleus of an atom and a plurality of apertures in concentric rings about the first-mentioned aperture and representative of the orbital electrons of atoms, a sorce of light in said chamber, and shutter means rotatably supported in said chamber between said source of light and said apertures and including arcuate opaque and

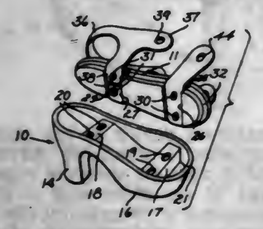
light transmitting portions of different arcuate lengths for selectively intercepting or permitting passage of light through the apertures representative of the orbital electrons, whereby atomic structure of different atoms may be demonstrated.

2,651,116
DISPLAY DEVICE
Conrad Vásquez, New York, N. Y.
Application February 3, 1951, Serial No. 209,245
2 Claims. (Cl. 35—49)



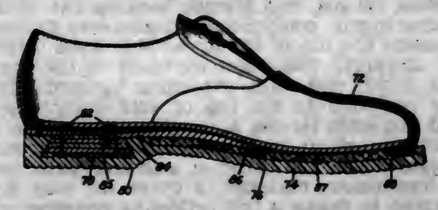
1. A device of the character described comprising a support, a tubular casing turnably mounted on said support, an indicator mounted on said casing and turnable in unison therewith, an arm carried by the forward end of said casing and turnable in unison therewith, an anchoring member turnably mounted on said arm, said anchoring member being perpendicularly disposed relative to said arm and casing and being composed of an upper holding section and a lower pin-holding section symmetrical about said arm, a half figure section mounted on each of said pin-holding sections, said pin-holding sections and figure sections being turnable about a transverse axis of the figure through a complete revolution when said casing and arm are rotated and means carried by and movable with said casing for turning said pin-holding sections and figure halves about their longitudinal axes, said casing and said turning means each including an individual manual operator and its operating knob, the axes of said operators being non-co-axial with the operator of the turning means positioned within such operator casing, said casing and said turning means each having an individual axis of rotation within the support, said axes of rotation extending in spaced parallelism, said indicator serving to indicate positions of figure parts in different positions of adjustment on the vertical axis.

2,651,117
MOLDED PLASTIC SHOE FOR DOLLS
Josephine A. Harris, Creswell, Oreg.
Application August 28, 1951, Serial No. 244,011
1 Claim. (Cl. 36—2.5)



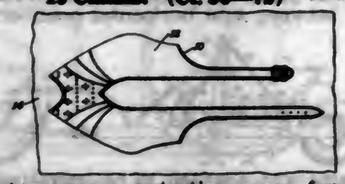
A doll shoe comprising a hollow, open top, bottom section, an insole section having a substantially planar lower surface having an upstanding, peripheral wall entirely around it, the peripheral edge of said insole section and the upper peripheral edge of said bottom section mating cooperatively along substantially the entire extent of said edges, and said insole having a lower layer set back from said peripheral edge and fitting closely the inside face of said peripheral wall, said insole section having a first laterally extending groove in said lower surface along the heel breast line and a first row of laterally spaced apart pegs depending downwardly therefrom and transversely centered in said first groove, said insole section having a second laterally extending groove in said lower surface in the vicinity of the ball line and a second row of laterally spaced apart pegs depending downwardly therefrom and transversely centered in said second groove, the peripheral edge of said top section being notched inwardly at the ends of each of said grooves, said bottom section having a first laterally extending rib positioned beneath said first groove and having cooperative peg receiving sockets therein in which the pegs of said first row are received, and a second laterally extending rib positioned beneath said second groove and having cooperative peg receiving sockets therein in which the pegs of said second row are received, an ankle strap including portions passing through the notches at the ends of said first groove and lying within said first groove, said ankle strap portions having openings in which the pegs of said first row are engaged, a vamp strap including a portion passing through the notches at the ends of said second groove and lying within said second groove, said vamp strap portion having cooperative openings in which the pegs of said second row are engaged, the surface of said ribs being spaced from the surface of the corresponding groove by a distance no less than the thickness of the corresponding strap to permit reception of the corresponding strap portion therebetween, and means uniting said insole section to said bottom section along said mating edges thereof.

2,651,118
MOLDING SOLES AND HEELS TO UPPERS
Andrew A. Root, Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 27, 1948, Serial No. 56,236
6 Claims. (Cl. 36—14)



6. A shoe comprising a shoe upper, an insole, a body of readily compressible felted fibrous material adjacent said insole, and a solid resilient tread member of plasticized resin formed in situ from a liquid dispersion of particles of a vinyl copolymer resin in a liquid ester plasticizer, the plasticizer having no substantial action on particles of said resin when cool but being capable at higher temperatures of at least partially dissolving the resin particles, said resin tread member being in continuous engagement with the edges and bottom surfaces of said felted fibrous body and with said insole and conforming to the contours of said felted fibrous body and adhering to said felted fibrous body and to the bottom of the insole.

2,651,119
ART OF TEMPORARILY COVERING ARTICLES
Valentine F. Harrington, Newton, Mass., assignor to R. B. Chemical Co., Boston, Mass., a corporation of Massachusetts
Application October 30, 1947, Serial No. 783,154
19 Claims. (Cl. 36—72)



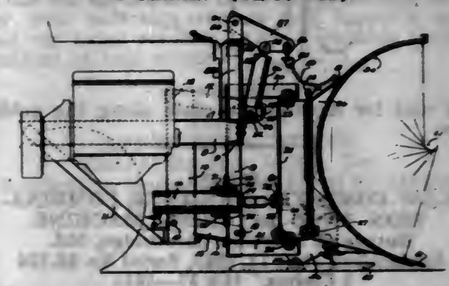
19. A temporary protective cover for a shoe part to prevent soiling or staining of the shoe part during manufacturing operations, said shoe cover comprising a pair of thin flexible sheets of rubber hydrochloride of such size and shape that when secured at their ends the cover so formed will fit loosely over a lasted shoe and extend over the portions of the shoe to be protected, said shoe cover having firmly bonded to its inner face by a base coat comprising a condensation derivative of rubber, a non-tacky coating comprising unmilled, uncured rubber formed on said base coat, said base coat serving to prevent separation of said non-tacky coating from the rubber hydrochloride sheet in the application of the shoe cover to a shoe part and removal of the shoe cover after manufacturing operations on said shoe part, said non-tacky coating being of such nature that its adhesion will not be increased to an extent sufficient to interfere with the ready removal of the cover by a pressure as great as 200 pounds per square inch for an interval as long as fifteen seconds.

2,651,120
EARTH MOVING AND VEHICLE PROPELLING CONVEYER FOR SELF-LOADING ROAD BUILDING MACHINES
Hans R. Miller, Cross Lake, Minn.
Application February 24, 1947, Serial No. 730,250
3 Claims. (Cl. 37—7)



1. An earth-moving and distributing machine having in combination transversely spaced sets of power driven, ground-engaging propelling and supporting mechanisms, a substantially horizontal frame supported mainly from said mechanisms and extending medially thereof longitudinally of the machine and having its forward end disposed far ahead of said mechanisms, a load-accumulating body supported on said frame and extending longitudinally thereof and having driven conveyor mechanism at the bottom thereof, the forward end of said body being disposed far ahead of said ground-engaging supporting mechanism, earth-cutting mechanism connected with the forward end of said frame and adapted to cut earth in the travel of said machine substantially the full width of said body and immediately ahead of the forward end of said body, a soil-elevating and moving conveyor mounted above said earth-cutting mechanism and extending forwardly thereof and consisting of a triangulated conveyor frame having an endless conveyor trained in triangulated form thereon and provided with a substantially horizontal forward run adapted to engage the ground and assist in the tractive effort of said machine and having an upwardly and rearwardly inclined run extending from said forward run for moving cut earth upwardly and rearwardly upon the receiving, forward end of said load-accumulating body and power driving connections for said last mentioned conveyor.

2,651,121
APPARATUS FOR HIGH-SPEED SNOW REMOVAL WITHOUT WINDROWING
Jean Russell Shannon, Clintonville, Wis., assignor to The Four Wheel Drive Auto Company, Clintonville, Wis., a corporation of Wisconsin
Application June 25, 1948, Serial No. 35,233
9 Claims. (Cl. 37—42)

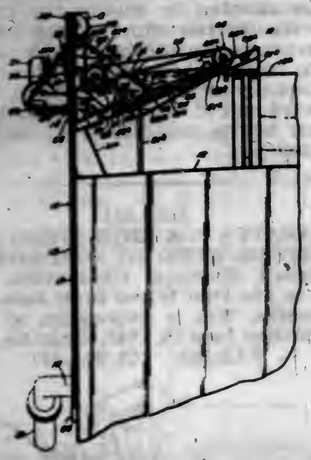


8. A snow plow adapted to be mounted at the front of a high speed vehicle having a frame, said snow plow comprising the combination with a mouldboard having a mounting bracket on its rear surface, of a thrust member in thrust relation to said bracket, said thrust member being provided with a vertical pivot connected to the vehicle frame for articulation of the thrust member and mouldboard in a horizontal plane and a horizontal pivot connected to the mouldboard mounting bracket and upon which the mouldboard is pivotally mounted for articulation of the mouldboard independently of the thrust member in a vertical plane, and casters connected to the mouldboard at opposite sides of said horizontal pivot whereby to articulate the mouldboard independently of the thrust member about said horizontal pivot in response to ground irregularities.

2,651,122
POSITIONING APPARATUS FOR DREDGE PIPES
Roy A. Briakman, Oak Park, Ill., assignor to Construction Aggregates Corporation, a corporation of Delaware
Application July 25, 1951, Serial No. 238,555
4 Claims. (Cl. 37—72)
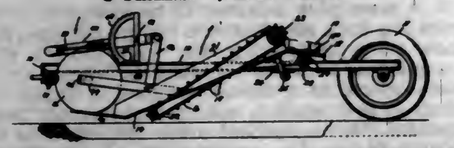
3. Apparatus for positioning equipment relative to the side of a ship, comprising: a way mounted on a deck of the ship and sloping downwardly toward a side of the ship, the way having its low end substantially adjacent the side and extending inwardly therefrom; a carriage mounted on the way for movement between a position with a face of the carriage substantially aligned with the side of the ship and a position inwardly therefrom; a guideway having an upper portion mounted on the face and a lower portion secured to the side of the ship, said portions being divisible from each other; a plate to which the equipment may be secured, said plate being positioned for travel along the guideway; a releasable plate catch for retaining the plate in the

upper portion of the guideway; and a single line pulley system for moving the carriage over the



way and for moving the plate along the guideway.

2,651,123
PLOW-CONVEYER-THROWER COMBINATION TYPE DITCHING MACHINE
Horace G. Murphy, Cambridge, Md.
Application June 13, 1949, Serial No. 98,754
3 Claims. (Cl. 37—101)



1. An improved ditching and trenching machine comprising a main frame, wheels for supporting the rear portion of the main frame for rolling movement through the field, longitudinal and transverse shafts attached to the forward portion of the machine geared together and positioned and adapted to receive rotary motion from the power take-off of a tractor, a drive shaft transversely mounted across the rear portion of said main frame, chain and sprocket gearing between said forward transverse shaft and said drive shaft, a supplemental frame, means for pivotally mounting said supplemental frame about said drive shaft to move in a substantial vertical plane through the main frame, cutting implements carried by the forward portion of said supplemental frame, a conveyor elevator carried by an intermediate portion of said supplemental frame and pivoted in the upper end of the supplemental frame, oppositely rotating spreader wheels mounted upon the rear portion of said supplemental frame in position to receive earth from the delivery end of said conveyor elevator, and gearing from said drive shaft to the conveyor and said spreader wheels.

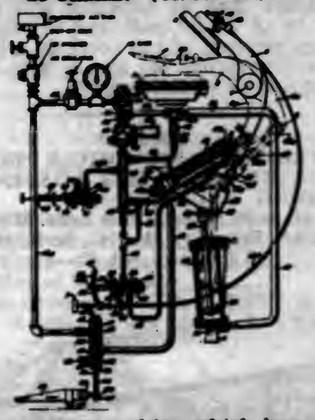
2,651,124
BOWL ADJUSTMENT FOR CARRY-TYPE SCRAPERS
Otto J. Warren, Forth Worth, and Valton W. Hair, Dublin, Tex.
Application April 19, 1946, Serial No. 663,516
2 Claims. (Cl. 37—129)

1. In a tractor-drawn earth moving device, in combination with a wheeled frame having a hitch, a sub-frame comprising a pair of L-shaped members pivotally connected to each side of said wheeled frame and having their horizontal legs operating in a vertical plane above said wheeled frame and extending forwardly of said pivotal connection and having their vertical legs extending upwardly from the forward ends of said horizontal legs, an earth scoop pivotally supported between said horizontal members of said



sub-frame and adapted to be operatively raised and lowered thereby, a closure for said scoop operatively connected on said second-named pivotal connection and operating with said scoop, hydraulic means operated from said tractor and having connection with the vertical legs of said L-shaped members actuating said sub-frame, and releasable latching means retaining said scoop and closure in carrying position.

2,651,125
PRESSING MACHINE
Hyman E. Cole, Valley Stream, N. Y., and Walter Olsen, East Paterson, N. J., assignors to New York Pressing Machinery Corporation, New York, N. Y., a corporation of New York
Application August 23, 1950, Serial No. 180,923
15 Claims. (Cl. 38—41)



8. In a pressing machine which has a buck, a head movable towards and away from said buck, a low-force cylinder which has a low-force piston slidable therein, a high-force cylinder which has a high-force piston slidable therein, connecting means between said pistons and said head to move said head towards said buck when said pistons are moved in respective outward strokes in their respective cylinders, and a common source of compressed air for said cylinders, the combination of operator-actuated means connecting said source of compressed air to an inlet port of said low-force cylinder, said low-force cylinder having an outlet cylinder port which is cleared by said low-force piston when said head substantially abuts said buck, normally closed valve means connecting said source of compressed air to an inlet port of said high-force cylinder, and pressure-responsive means for opening said normally closed valve means, said pressure-responsive means being connectible to said outlet cylinder port of said low-force cylinder, by additional operator-actuated valve-means.

2,651,126
PAGE CARD FILE
Henry H. Feldstein, Cleveland, Ohio, and Marc J. Feldstein, Arlington, Va.
Application March 1, 1948, Serial No. 12,282
4 Claims. (Cl. 40—64)



3. In combination, at least a pair of page card files positioned in abutted end-to-end relation, said page card files each comprising a flat member having a pair of opposed overhanging flanges formed on opposite edges of the upper surface thereof to define a data strip receiving portion in the page card file, a spring member attached to the under surface of said flat member at each end thereof and protruding longitudinally from the data strip receiving portion of the file, said spring members being spaced from the longitudinal center line of said flat members and being spaced from the lateral margins thereof, said spring members having doubled back shoulder portions lying longitudinally outwardly of the flat member and protruding up immediately adjacent the ends of the said files at least into the data strip receiving portion of said files to prevent data strips from moving beyond the ends of said files, opposite ends of said files being abutted and the said spring members on the abutted ends being depressed below the lower surfaces of said files.

2,651,127
RUG DISPLAY DEVICE
Harry L. Rubin, Albert Rubin, and David Rubin, Long Beach, Calif.
Application February 28, 1949, Serial No. 78,786
4 Claims. (Cl. 40—85)



4. A rug displaying device which includes: a hollow elongated rug supporting member; a pair of shafts, with each of said shafts having a portion thereof that extends longitudinally into the confines of said member; means for journaling the inwardly positioned ends of said shafts within the confines of said member; a pair of plates, with each of said plates affixed to one of the ends of said member, and each of said plates having a bore formed therein in which one of said shafts is journaled; a pair of supports, with each of said supports rotatably supporting one of said shafts; a ratchet mounted on the outer end of one of said shafts; a pawl pivotally mounted on a pin extending outwardly from one of said supports, with said pawl engaging said ratchet; a helical spring encircling said ratchet bearing shaft within the confines of said member, with said spring on one end being connected to said member and on the other end to a pin extending through said ratchet bearing shaft; a helical spring situated within the confines of said member and encircling said shaft on which a ratchet is not mounted, with said spring being situated between one side of said journaling means and a pin extending through said shaft, and said spring being at all times in compression; a ring affixed to the outer portion of said non ratchet bearing shaft, with said ring being forced by said compressed spring into the interior surface of one of said supports to prevent lateral movement of said rug supporting member; a crank which can engage said ratchet bearing shaft, with said crank on being rotated regulating the torsion on said spring, and said ratchet and pawl maintaining said torsion on said spring whereby the weight of a rug extending downwardly from said rug supporting member is compensated for; and a horizontally positioned bar affixed to the lower edge of the rug mounted on said rug supporting member, with said bar striking said supports upon said rug being rolled up and preventing further rotation of said member.

2,651,128
ADVERTISING DEVICE
Richard Burdick, Dallas, Tex.
Application March 29, 1950, Serial No. 152,739
5 Claims. (Cl. 40—125)



1. For use in combination with a transparent glass panel having two oppositely presented spaced parallel flat polished faces, an advertising display device comprising a transparent flat base panel having two oppositely presented spaced parallel flat polished faces, the base panel being mounted with one of its faces against one face of the glass panel and its other face in outwardly spaced parallel relation thereto, a dome-shaped member marginally secured to and extending outwardly over and around the base panel for enclosing a space between the under side of the dome and the base panel, a slide-forming element adapted for securement to the other face of the glass panel in the provision of a marginal groove which is also along one lateral margin of said element to admit the insertion of a thin panel-like member, a thin panel-like opaque member having a surface capable of partially reflecting and partially refracting all light incident thereon, the opaque member removably mounted in the slide-forming element with said surface applied snugly against said other face of the glass panel, and advertising indicia mounted upon said other face of the base panel within the space under the dome for multiple reflection of its margins upon the several faces of the glass panel and transparent panel, said multiple reflections being visually merged by the refractive effect of said surface of the opaque member to impart an appearance of substantially increased thickness and depth to said indicia.

2,651,129
PICTURE FRAME FOR COLORED PHOTOGRAPHS
Maurice Spertus, Highland Park, Ill.
Application August 10, 1950, Serial No. 178,691
6 Claims. (Cl. 40—152.1)



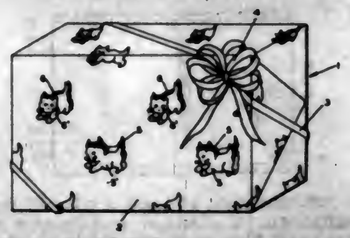
1. In a device of the character described comprising in combination a frame formed from a length of channel-shaped strip affording a continuous groove, a pair of glass panes adapted to being mounted with the marginal edges thereof disposed in said groove, and a plurality of spring wedging devices positioned within said groove to lock said panes within said frame, a pair of frame supporting devices wedged within the groove of said frame, said supporting devices comprising angularly bent rods having vertical and horizontally inclined legs, said wedging devices comprising angularly bent strips of spring metal positioned to bear against said vertical legs for wedging the same in rotatable relationship within the grooves of said frame.

2,651,130
DECORATIVE TREE
Louis C. Stratmann, Jr., New Orleans, La.
Application August 15, 1950, Serial No. 179,691
2 Claims. (Cl. 41—15)



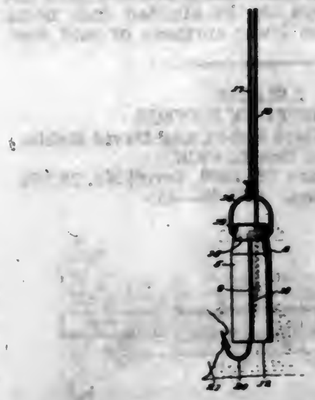
1. A knockdown ornamental tree for festive occasions adapted to be manufactured and sold wholly in flat ready-to-use form comprising a flat circular self-standing base, a trunk having an enlarged basal portion integral with said base, said trunk rising perpendicularly from said base and the major portion thereof being indented lengthwise and providing a portion which is V-shaped in cross-section, and a plurality of complemental limbs integral with and extending laterally from the respective longitudinal edge portions of said trunk, said limbs being of a readily deformable shape-sustaining malleable material which is manually bendable, whereby said limbs may be transformed from flat form to variegated decorative forms representing branches, said basal portion of said trunk being a complement of and struck out from said base and also bent up from said base.

2,651,131
PACKAGE WRAPPER
Gretchen G. Long and Vera Y. Long, Cleveland Heights, Ohio
Application February 18, 1950, Serial No. 145,046
6 Claims. (Cl. 41—34)



1. An ornamental wrapper for enveloping a package, said wrapper comprising a sheet of pliable paper having one or more printed characters on the exterior surface thereof, a cut-out tab bearing on its exterior surface a representation of like design to said printed character and means for securing said tab to said wrapper to be at least partially superimposed upon and at least part of its body spaced from and above said printed character.

2,651,132
FISHHOOK RELEASER
Guy B. Lemmon, Shirley, Ind.
Application November 13, 1951, Serial No. 255,892
1 Claim. (Cl. 43—17.3)



A fish hook releaser comprising an outer sleeve having a longitudinal split and also having the upper end area of its interior screw-threaded, an inner sleeve of greater length than the outer sleeve, said inner sleeve also having a similar longitudinal split, said inner sleeve having a head at its upper end and a body depending therefrom and being of smaller external diameter than the head to provide a shouldered relation therebetween, said inner sleeve being exteriorly threaded below the shoulder, the thread relation of the pair of sleeves causing said splits to be non-alined when the head shoulder engages the upper end of the outer sleeve with the splits placed in alinement by a partial unthreading movement of the inner sleeve, the lower ends of the sleeves being substantially alined when the shoulder is engaged, the wall thickness of the outer sleeve being materially greater than that of the body of the inner sleeve, said inner sleeve having an axial opening of uniform diameter, said head carrying a bail positioned in alinement with the opening,

whereby the releaser may be suspended along a fishing line passing through said opening to thereby cause the suspended sleeves to be positioned with the opening extending truly vertical due to the weight of the sleeves and thereby enable the lower end of the sleeves to directly engage the inner bottom of the bight of a hook carried by said fishing line when the releaser is freely dropped after being raised within the hook area.

2,651,133
FISH LURE
George J. Sharpe, Momence, Ill., assignor to P & K Incorporated, Momence, Ill., a corporation of Illinois
Application June 11, 1952, Serial No. 292,907
4 Claims. (Cl. 43—42.37)



4. The combination with a fish hook comprising a single element of wire shaped to have a curved bill terminating in a barb point at one end thereof, said bill having at its other end a shank including a straight portion, said shank having an open loop at the bill end thereof and a second loop at the opposite end thereof, said second loop having a free terminal end adapted to be engaged in the first loop whereby a lure body may be rigidly held between the intermediate portion of the shank and the free terminal end, of a lure body, said lure body having a groove in the body thereof to receive a portion of the shank of the hook between both loops, said second loop having side portions inclined downwardly with respect to the straight portion of said shank whereby the first and second loops constitute stops adapted to restrain a lure body from longitudinal movement relatively to the hook.

2,651,134
WEEDLESS FISHHOOK
Milton Franklin Kemmerer, Waterloo, Iowa
Application October 7, 1950, Serial No. 189,620
2 Claims. (Cl. 43—42.4)



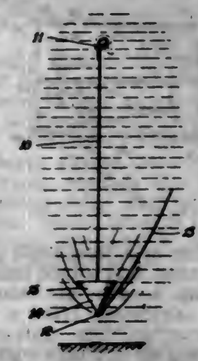
1. The combination of a fish hook having an eye at one end thereof, a shank extending from the eye, said shank having a bend at the opposite end thereof terminating in a pointed tip, said tip having a barb formation on the outer side thereof having a diamond shaped face providing laterally extending projections and a downwardly extending projection, and an elastic band of loop form having one portion of the loop surrounding the shank, the sides of the loop extending through the eye and another portion of the loop extending from the eye downwardly and adapted to be extended over the barbed tip so that the entire width of the band is held against a portion of the bend of the shank under the lateral projections of the barb, said lateral projections extending a greater distance thereacross than the width of the shank.

2,651,135
ADJUSTABLE WEIGHT FISHING SINKER
Jack W. Greenleaf, Snohomish, Wash.
Application October 24, 1950, Serial No. 191,785
4 Claims. (Cl. 43—43.14)



1. A fishing sinker comprising, in combination, a weight holder formed of a piece of resilient wire reversely bent substantially at the middle thereof to form a line-connecting loop and substantially straight legs extending normally in a slightly divergent relationship from said loop, the projecting ends of said legs carrying relatively short feet projecting oppositely from each other transversely to said legs, and a plurality of solid cylindrical weight elements having substantially central bores therein of a diameter slightly larger than the length of said weight holder feet and having opposite end faces, at least one of which is substantially flat, said end faces being transverse to the axis of the bores to form continuous rim surfaces extending around the opposite ends of said bores, respectively, said line-connecting loop being of a width to pass through said weight member bores, and the length of said legs being greater than the sum of the lengths of a plurality of said weight elements.

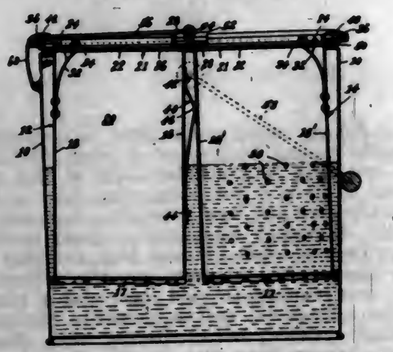
2,651,136
UNITARY SINKER LEADER AND FISHHOOK
Andrew A. Kruse, Detroit, Mich.
Application April 18, 1952, Serial No. 283,000
1 Claim. (Cl. 43—44.9)



A sinker having a conical shape with greater mass adjacent the apex portion and lesser mass adjacent the base portion, said portion of greater mass having an overall length greater than one-half of the length of the sinker, said base portion being substantially frusto-conical and having a hollow interior, said hollow interior being de-

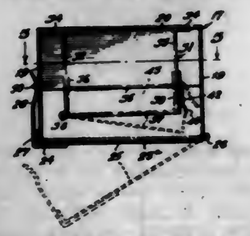
fined by outwardly and upwardly flaring side wall portions and by a projection of dome shape extending upwardly from the smaller base to the larger base of said base portion, said dome and said portion of greater mass being provided with coaxial bores adapted to receive a leader therethrough for the attachment of a line thereto, said sinker being adapted when cast into a body of water to sink slowly due to the hollow and flaring portions thereof displacing water for the creation of a partial vacuum in said hollow portion.

2,651,137
BAIT BUCKET
Ralph C. Sweet, Steger, Ill.
Application September 30, 1950, Serial No. 187,723
7 Claims. (Cl. 43—56)



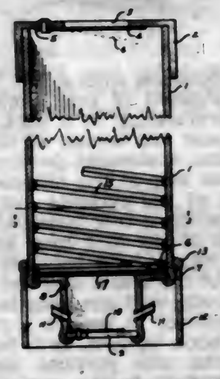
1. A bait bucket comprising an outer bucket, a plurality of inner buckets, said inner buckets having flanges adapted to overlie the upper edge of the outer bucket, whereby the inner buckets are supported by said outer bucket, a ring surrounding said inner buckets, and a bail secured to said ring adapted to withdraw all of the inner buckets from the outer bucket.

2,651,138
POISON BAIT HOLDER FOR EXTERMINATING RODENTS
William M. Malley, Stony Point, N. Y.
Application November 25, 1949, Serial No. 129,445
1 Claim. (Cl. 43—131)



The combination of a receptacle provided with an entrance opening, and a bait holder, said bait holder comprising a pair of hanger members secured to and projecting from a wall of said receptacle remote to the entrance opening thereof, and toward an opposite wall thereof, said hanger members being spaced from one another transversely of the receptacle, a slotted bar extending between and secured at its ends to the hanger members, said bar being spaced from the ends of the hanger members, a second slotted bar pivotally connected at one end to a free end of one of the hanger members, latch means detachably latching the other end of the second slotted bar to a free end of the other hanger member to position the bars in spaced substantially parallel positions for clamping a poisonous bait therebetween in an exposed position within the receptacle, said last mentioned wall having a relatively large opening through which the last mentioned end of said second slotted bar is swingably movable when unlatched and through which the bait is applied to the bait holder or removed therefrom, a closure hingedly connected at one end to the receptacle, and a latch detachably latching the other end of the closure to the receptacle for closing said last mentioned receptacle opening.

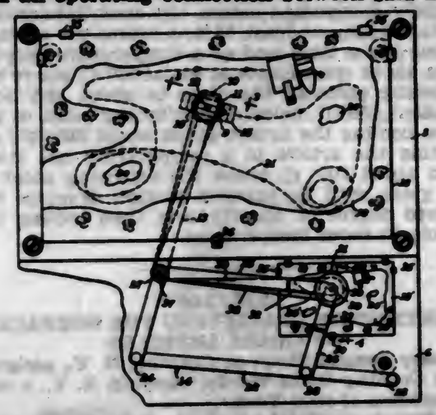
2,651,139
DUSTING GUN
Charles F. Gregg, Indianapolis, Ind.
Application August 10, 1949, Serial No. 109,511
2 Claims. (Cl. 43—147)



1. A dusting gun comprising a bodily reciprocable tubular container body adapted to receive and be partially filled with dusting powder and having a discharge opening at its lower end, closure valves disposed at the opposite ends of said body and opening and closing in opposite directions and a screen disposed at the lower end of said body above the discharge opening said valves being closed under the piston-like action of the body of the powder during the reciprocal movement of the container.

2,651,140
MAGNETIC TOY
George M. Kovac, Rockford, Ill.
Application January 28, 1949, Serial No. 73,269
3 Claims. (Cl. 46—45)

1. In a toy or game, the combination of a relatively large playing surface, a toy figure including magnetic material disposed on and movable relative to said surface, a magnet disposed beneath the playing surface and rotatable on an axis at right angles to said surface and movable linearly so that the toy figure may be turned in either direction and moved linearly at will in any direction by magnetic attraction about the playing surface, a parallelogram arrangement of pivotally connected arms forming a pantograph a portion of which is movable under the playing surface, said pantograph being pivoted on a support that is disposed in fixed relation to said playing surface, a spindle upstanding on one arm of said pantograph mounting said magnet for rotation about the spindle axis, another playing surface on said support which is a miniature of the large area playing surface, a manually operable rotatable knob mounted on another arm of said pantograph, said knob being of small diameter in relation to the small area playing surface and movable on said small area playing surface, and an operating connection between said knob



and magnet enabling said magnet to be rotated for at least one complete revolution in either direction at will by means of said knob to turn the toy figure accordingly before, during or after lineal movement.

2,651,141
VARIABLE TONE DUCK CALL OF THE ADJUSTABLE REED TYPE
Louis Biocchi, La Salle, Ill.
Original application May 12, 1949, Serial No. 92,771, now Patent No. 2,556,282, dated June 12, 1951. Divided and this application April 25, 1951, Serial No. 222,766
1 Claim. (Cl. 46—180)



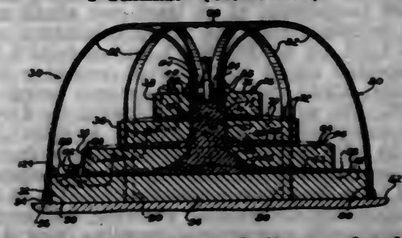
In a wind instrument of the class described, a tubular casing having a front mouth end for use in blowing through the casing, wind responsive means in said casing for producing a tone simulating a duck call including a longitudinally grooved tongue forming a sound box and fixed in said casing, an elongated reed extending along said groove for vibration opposite the same to produce the tone, said reed being longitudinally and slidably adjustable along said tongue to vary the length of reed which may vibrate opposite said groove whereby to vary the pitch of the tone, a manipulative rotary tuning sleeve in the rear end of said casing, and operating connections between said sleeve and reed for adjusting the reed by rotation of said sleeve comprising an internally threaded coupling sleeve threaded onto said tuning sleeve and slidably and non-rotatably connected to said casing for screw feed endwise by said tuning sleeve, said reed having a rear end extending rearwardly beyond said tongue and into said coupling sleeve with side edge teeth fitting into threads of the coupling sleeve to operatively connect said coupling sleeve to said reed for adjustment thereby, and a fixed member in said casing frictionally and slidably engaging the reed between the ends of the reed to hold said reed between its ends flat against said tongue.

2,651,142
TOY BOMB
Charles E. Buxton, Pleasant Hill, Mo.
Application April 9, 1951, Serial No. 220,621
1 Claim. (Cl. 46—200)



A device of the character described comprising an elongated body, said body having a cylindrical firing chamber centrally disposed in its inner end, a head portion, a centrally disposed projection of square cross sectional area formed integrally with said head, a plurality of flexible fingers affixed to the head and each extending in spaced parallel relation to the sides of said projection and in spaced circumferential relation to each other, said fingers each having rounded outer faces frictionally and slidably engageable with the wall of said firing chamber, a firing pin centrally affixed in the inner end of said firing chamber, and a firing pin head centrally affixed to the free end of said projection.

2,651,143
TERRACED GARDEN
Margaret L. Ramsay and Paul O. Ramsay, Elmhurst, Ill.
Application October 9, 1948, Serial No. 53,746
5 Claims. (Cl. 47—33)

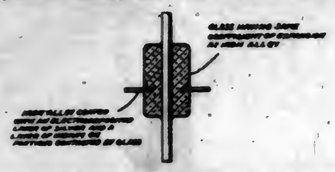


1. A terraced garden including a plurality of soil steps of downward progressively increasing outward lateral extent, at least the outer portion of each step being exposed at the top thereof, sand portions of downward progressively increasing outward lateral extent individually underlying and in intimate surface contact with the soil of the respective outer step portions, and means for supplying liquid to said sand portions for seepage through the sand to the soil of the respective outer step portions.

2,651,144
GLASS-TO-METAL SEAL
Robert T. Foley, Pittsfield, Mass., and Herbert A. Omley, East Nassau, N. Y., assignors to General Electric Company, a corporation of New York
Application November 15, 1950, Serial No. 195,906
1 Claim. (Cl. 49—31)

The method of making a cast glass-to-metal seal between a glass body and metal member com-

posed of an alloy of iron and a metal of the group consisting of nickel and cobalt, which comprises electrodepositing a layer of silver on said metal member, annealing the silver-plated member in a hydrogen atmosphere to effect a partial



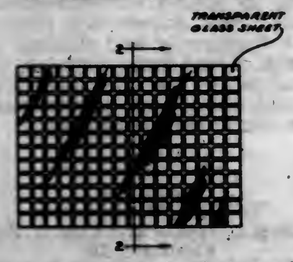
diffusion of the silver layer into the metal member, electrodepositing on the silver layer a thin layer of indium and casting a glass having substantially the same coefficient of expansion as said metal member into contact with the indium-plated portion of said metal member.

2,651,145

PHOTOSENSITIVELY OPACIFIABLE GLASS

Stanley Donald Stookey, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York

Application July 7, 1950, Serial No. 172,596
39 Claims. (Cl. 49—88)



1. A clear, transparent photosensitive glass comprising essentially 55% to 75% SiO_2, the indicated proportion of at least one alkali metal oxide selected from the group consisting of up to 2% Li_2O, 5% to 18% Na_2O, and up to 13% K_2O, the selected alkali metal oxide including Na_2O, the total alkali metal oxide content being 12% to 18%, 2% to 12% Al_2O_3, 0.0001% to 0.3% of silver computed as AgCl, 0.005% to 0.5% CeO_2, 1.8% to 3.0% of analytically determined fluorine, and the indicated proportion of a halogen selected from the group consisting of 0.01% to 0.2% of analytically determined chlorine, 0.02 to 0.4% of analytically determined bromine, and 0.03% to 0.6% of analytically determined iodine, the essential constituents totaling at least 85%, said glass being thermally opacifiable only in such areas as have been previously exposed to short-wave radiations.

34. The method of making a glass article having an opaque design formed within its mass, which includes the steps of exposing to short-wave radiations at least a portion of an article formed from a clear, transparent glass capable of being thermally opacified only in such areas as have been previously exposed to short-wave radiations and comprising essentially 55% to 75% SiO_2, the indicated proportion of at least one alkali metal oxide selected from the group consisting of up to 2% Li_2O, 5% to 18% Na_2O, and up to 13% K_2O, the selected alkali metal oxide including Na_2O, the total alkali metal oxide content being 12% to 18%, 2% to 12% Al_2O_3, 0.0001% to 0.3% of silver computed as AgCl, 0.005% to 0.05% CeO_2, 1.8% to 3.0% of analytically determined fluorine, and the indicated proportion of a halogen selected from the group consisting of 0.01% to 0.2% of analytically determined chlorine, 0.02% to 0.4% of analytically determined bromine and 0.03% to 0.6% of analytically determined iodine, the essential constituents totaling at least 85%, heating the exposed article for a time and at a temperature varying from about one minute at about 50° C. above the softening point of the glass to about one hour at about 150° C. below the softening point of the glass, cooling the article below about 500° C., reheating the article to a temperature not lower than about 100° C. below the softening point of the glass until its exposed portion develops the desired degree of opacity, and then cooling the article to room temperature.

2,651,146

METHOD OF OPACIFYING THE SURFACE OF GLASS ARTICLES

Stanley Donald Stookey, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York

No Drawing. Original application July 7, 1950, Serial No. 172,596. Divided and this application May 16, 1952, Serial No. 288,313
4 Claims. (Cl. 49—88)

1. The method of opacifying at least a portion of the surface of a glass comprising essentially 55% to 75% SiO_2, the indicated proportion of at least one alkali metal oxide selected from the group consisting of up to 2% Li_2O, 5% to 18% Na_2O, and up to 13% K_2O, the selected alkali metal oxide including Na_2O, the total alkali metal oxide content being 12% to 18%, 2% to 12% Al_2O_3, 0.005% to 0.05% CeO_2, 1.8% to 3.0% of analytically determined fluorine, and the indicated proportion of a halogen selected from the group consisting of 0.01% to 0.2% of analytically determined chlorine, 0.02% to 0.4% of analytically determined bromine and 0.03% to 0.6% of analytically determined iodine, the essential constituents totaling at least 85%, which comprises introducing silver in a concentration of from 0.0001% to 0.3% into the surface of the glass by bringing the glass and a finely divided material selected from the group consisting of silver and silver compounds into contact, and heating the glass and the silver-containing material while they are in contact to effect an exchange of silver for alkali metal in the glass, thereafter heating the glass to a temperature above about 550° C. for a period of at least 15 minutes, cooling the glass below about 500° C., and reheating the glass to a temperature not lower than about 100° C. below its softening point until the desired degree of opacity is developed.

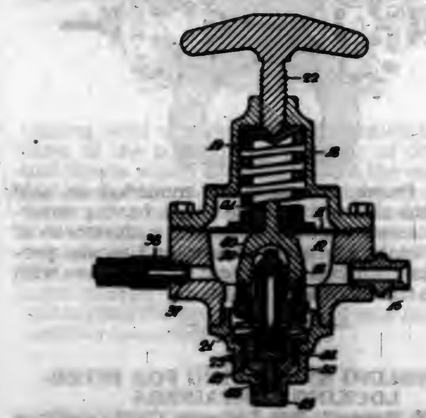
2,651,147

GAS PRESSURE REGULATOR

Frank J. Eichelman, Brookfield, Ill., assignor to National Cylinder Gas Company, Chicago, Ill., a corporation of Delaware

Application October 9, 1947, Serial No. 778,939
15 Claims. (Cl. 50—23)

1. A gas pressure regulator comprising a low pressure discharge chamber, one outside wall of which is formed by a diaphragm against which the low discharge pressure in said chamber is exerted, an adjustable spring pressure exerted inwardly against said diaphragm, a fixed high pressure discharge nozzle disposed in said chamber, a valve member in said chamber connected to said diaphragm and cooperating with said nozzle for controlling the flow of gas from said nozzle into said chamber in response to the pressure on said diaphragm and the pressure of gas in said nozzle, an auxiliary diaphragm connected to the side of said valve member opposite said nozzle, and means for maintaining a gas pressure against said auxiliary diaphragm substantially the same as in said nozzle and in a direction to urge said valve member toward said nozzle with a force proportional to the pressure of gas in said nozzle, whereby said valve member is operated by the conjoint action of said spring pressure and said diaphragm.



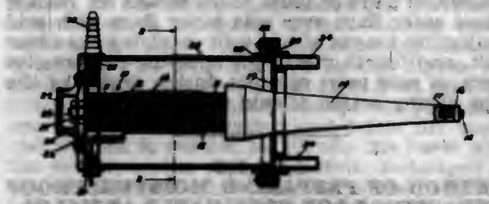
14. Method of obtaining a uniform reduced gas pressure from a gas supply at higher and varying pressures with only one manual selective operation for any selected reduced pressure, which comprises the steps of admitting gas from the supply through a pressure operable valve into a pressure-transmitting expansion chamber from which gas is delivered at the selected reduced pressure, applying spring pressure preselected to maintain the valve open in opposition to the selected reduced gas pressure, applying the gas supply pressure against one side of the valve in a direction tending to open it, and exerting a pressure derived from the gas supply against the opposite side of said valve as a force directly proportional to the gas supply pressure.

2,651,148

ULTRASONIC VIBRATORY DEVICE

Preston R. Carwile, Cambridge, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application November 23, 1949, Serial No. 128,989
10 Claims. (Cl. 51—59)



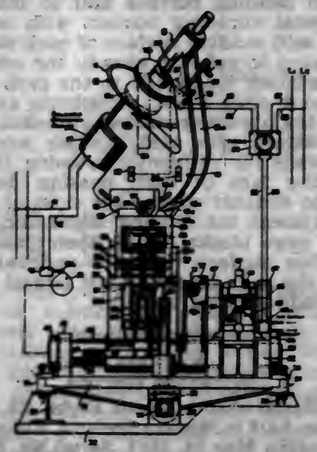
1. A vibratory device comprising a source of mechanical oscillations, and means for increasing the amplitude of said oscillations comprising a medium for transmitting said mechanical oscillations attached to said source, said medium having a reduced cross-sectional area as said medium extends away from said point of attachment, said medium comprising Monel metal.

2,651,149

APPARATUS FOR GRINDING DISKS

John F. Ferm, Midland, Pa., assignor to Crucible Steel Company of America, New York, N. Y., a corporation of New Jersey

Application May 10, 1950, Serial No. 161,950
9 Claims. (Cl. 51—106)



1. In apparatus for use with a grinding wheel for the edge grinding of disk workpieces, a workpiece holder constructed and arranged for angular movement between workpiece loading and grinding positions, means upon said workpiece holder for mounting such workpiece for free rotation; support means for such workpiece holder for mounting such a workpiece with the axis thereof angularly disposed relative to the plane of rotation of the grinding wheel and with the center point of rotation of such workpiece spaced from such plane of rotation of the grinding wheel by a preselected distance, such support means positioning the plane of rotation of the workpiece to intersect the grinding wheel along a chord less than a diameter thereof; power means for shifting said workpiece holder from a loading to a grinding position and return; a timer operatively connected to said power means for influencing the latter to maintain said workpiece holder in a grinding position for a preselected period which is a function of the distance between such center point and plane of rotation and the obliquity of such axis of rotation with the plane of rotation of the grinding wheel; a brake for restraining rotation of said workpiece holder; and means for applying said brake in response to the positioning of said workpiece holder a preselected distance away from the grinding position.

2,651,150

INCREMENTAL SANDING APPARATUS FOR TRIMMING BOOK BLOCKS

Peter de Flores, Oyster Bay, and Francis J. Cashin, East Williston, N. Y., assignors, by mesne assignments, to The De Flores Company, Inc., a corporation of Delaware

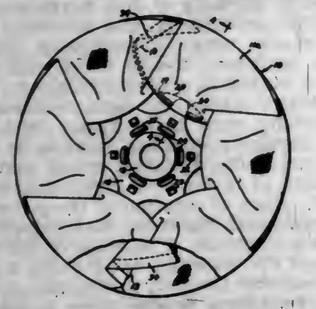
Application November 2, 1949, Serial No. 125,991
3 Claims. (Cl. 51—135)



1. In an apparatus for trimming the binding edges of books, more than one abrading station,

a book conveyor adapted to hold firmly a book page block to be trimmed and to convey it and to present the binding edge successively to sanding surfaces in said abrading stations, said abrading stations being spaced apart and each station having a sanding surface, supporting and driving means for said sanding surface adapted to drive said sanding surface and to maintain it in horizontal abrading contact with said binding edge, said sanding surface of each station being arranged to cut and abrade the edge of the book page block diagonally to the path of travel of said book page block, supporting guides disposed at the abrading station adjacent and just out of contact with said sanding surface and spring means for resiliently pressing the guides against the face of each passing page block adapted to slidably engage the sides of the page blocks adjacent the binding edges and to guide the book page blocks during their passage over the sanding surface, and for maintaining the leaves of the page block against lateral displacement by said sanding surface.

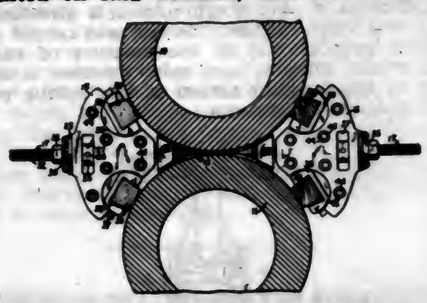
2,651,151
BUFFING WHEEL
Fritz E. Hendrickson, South Elgin, Ill., assignor of one-half to Murray Ireland, Elgin, Ill.
Application May 24, 1951, Serial No. 228,003
6 Claims. (Cl. 51—193)



3. A buffing wheel comprising an endless band buffing element of fabric material folded medially lengthwise to form an annular disk and having mounting openings therein, a disk-like mounting hub having peripherally spaced and outwardly tapered mounting fingers, the fabric being arranged when forced at an opening along a mounting finger to stretch and exert pressure thereagainst, and a retainer lock for each finger having one end enlarged for holding the mounted band thereon and its other end extending along the finger through the fabric opening and terminating in a hook to engage in an opening in the finger, the cooperation of parts being such that when said enlarged end of the lock is forced against the fabric and along the tapered finger to a hook engaged position the stretched fabric around the opening exerts tension on and maintains said finger and lock in hook engaged position.

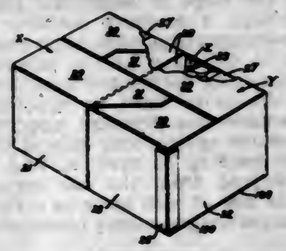
2,651,152
ROLL GRINDING DEVICE
Carl F. Schnuck, North Haven, Conn., assignor to Farrel-Birmingham Company, Incorporated, Ansonia, Conn., a corporation of Connecticut
Application June 28, 1950, Serial No. 170,893
7 Claims. (Cl. 51—252)

1. In a roll grinding or polishing device, a pair of frames adapted to be positioned one at each side of the bite between a pair of cooperating rolls, a grinding stone secured in one of said frames to engage one of the rolls, a member passing between the rolls and secured to said frames to connect them together, a sleeve rotatably mounted on said member, and extending into



said one frame, a nose block mounted on said sleeve, said sleeve and nose block having interengaging screw threads providing adjustment of the nose block along the sleeve, and means preventing longitudinal movement of the sleeve with respect to the associated frame.

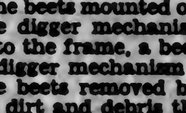
2,651,153
ASSEMBLING AND GLUING FOR INTERLOCKING CONTAINERS
Edward N. Burnett, San Lorenzo, Calif., assignor to Gerber Products Company, Fremont, Mich., a corporation of Michigan
Application October 3, 1950, Serial No. 188,254
18 Claims. (Cl. 53—3)



1. Machinery for use in closing pairs of interlocking container units having transversely extending inner flaps and longitudinally extending outer flaps, at least one of said outer flaps having a projecting tongue comprising first means for assembling pairs of units with the trailing panel of the first unit abutting the leading panel of the second unit, second means for advancing the assembled pairs of units, third means for folding glued outer flaps over said inner flaps with said projecting tongue of one unit overlying the other unit, and fourth means for applying compressive force to said pairs of units during drying of the glue during action of said second means.

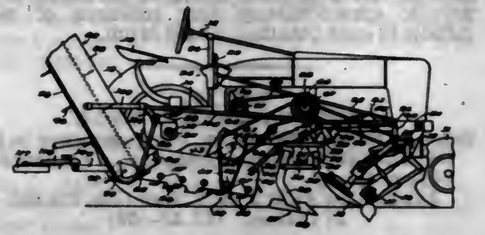
2,651,154
METHOD OF PREPARING MOISTUREPROOF WRAPPINGS FOR PERISHABLE ARTICLES
Charles Nicollé, Gentilly, France
Original application January 21, 1946, Serial No. 642,461. Divided and this application March 17, 1949, Serial No. 81,864. In France August 4, 1944.
Section 1, Public Law 690, August 8, 1946
Patent expires August 4, 1964
6 Claims. (Cl. 53—5)

1. The method of making a moistureproof package containing at least one article comprising the steps of molding a pair of inner sheets of moldable plastic wrapping material to provide in a first one of said inner sheets at least one recess surrounded by plane portions, said recess being adapted to receive said article, and to provide in the second inner sheet a cover portion for said recess surrounded by corresponding plane portions, molding a pair of outer sheets of similar material with respective recess and cover portions conforming generally to the contours of the recess and cover portions of said inner sheets;



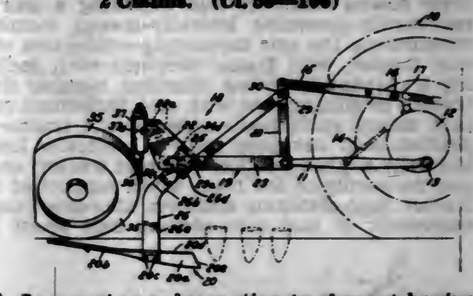
coating with a moistureproof varnish those surfaces of the conforming portions of one pair of said sheets which will be adjacent the conforming portions of the other pair; assembling said outer sheets in juxtaposition to the respective inner sheets with said layers of moistureproof varnish intervening, thereafter sealing at least parts of said outer sheets to corresponding parts of said inner sheets; placing said article in said recess, and sealing the plane portions of said inner sheets together to enclose said article.

2,651,155
POWER-OPERATED BEET HARVESTING DEVICE
John W. Orendorff, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application August 17, 1946, Serial No. 691,188
5 Claims. (Cl. 55—61)



1. In a power operated harvesting machine for beets and the like including a wheeled supporting frame and topping mechanism for removing the foliage from the beet, digging mechanism for lifting the beets from the soil mounted upon the frame for movement with respect thereto, an elevator for the beets mounted on the frame rearwardly of the digger mechanism for movement with respect to the frame, a beet cleaning device between the digger mechanism and the elevator to receive the beets removed by the digger, remove surplus dirt and debris therefrom and deliver them to the elevator, a receptacle positioned rearwardly of the elevator and below the upper end thereof to receive by gravity the beets with the accompanying dirt and debris discharged by the elevator, and a generally horizontal traveling sorting conveyor in the path of material discharged by gravity from the elevator and extending to a location outside of the receptacle, whereby beets may be removed from the conveyor by hand and deposited in the receptacle while the dirt and debris is carried by the conveyor over the side of the receptacle and deposited on the ground, said sorting conveyor being swingable bodily to a position out of the path of material discharged from the elevator to permit discharge thereof directly into the receptacle.

2,651,156
ROOT CROP LIFTER
Clarence E. Richey, Royal Oak, Mich., assignor to Dearborn Motors Corporation, Highland Park, Mich., a corporation of Delaware
Application April 19, 1950, Serial No. 156,247
2 Claims. (Cl. 55—106)



1. In a root crop harvesting implement having a pair of substantially parallel transversely spaced root crop lifting blades each having a forward cutting portion and a rear lifting portion, the improvements comprising a trailing rod mounted on each of said lifting blades in substantial longitudinal alignment therewith, the lifting portions of said blades and said rods being laterally spaced apart less than the width of the root crop, and each of said rods also being inclined upwardly in a rearward direction, whereby a root crop engaged by said blades is raised vertically by said rods, and a pair of ground engaging wheels mounted on the implement on axles, a vertical plane passing through said axles intersecting the rods intermediate the ends thereof, the ground-engaging portions of said wheels lying laterally adjacent the rods.

2,651,157
ONION DIGGING AND HARVESTING MACHINE
Enoch H. Drake, Marshall, Mich.
Application June 14, 1951, Serial No. 231,467
4 Claims. (Cl. 55—137)

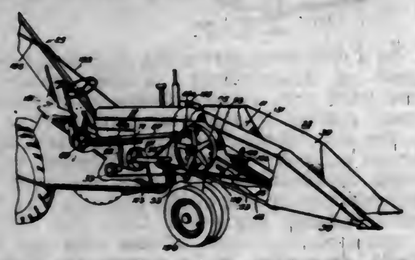


1. In an onion harvesting machine, a mobile frame, a conveyor on said frame including a plurality of forwardly declined parallel bars with their forward ends adjacent the ground line, an endless conveyor including spaced flights trained around said bars with the flights extending transversely thereof, an onion digging element on said conveyor at the forward lower ends of the bars and a rotary onion pusher element having onion sweeping blades extending transversely above said onion digging element for sweeping the dug onions from the digging element onto the forward lower ends of the bars of said conveyor.

2,651,158
TRACTOR-MOUNTED CORN HARVESTER
Martin A. Richardson, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application October 30, 1947, Serial No. 783,929
3 Claims. (Cl. 56—13)

1. In combination with a tricycle type tractor having a front wheel support and having a power

take-off and having laterally extending implement support means secured to opposite sides of the forward end of the tractor, a one-row corn picking unit comprising a generally rigid frame structure including frame members supporting a pair of forwardly extending snapping rolls and drive means therefore and including a pair of rearwardly-presented laterally-spaced members constituting the sole supporting connection with said tractor, said frame members each including a rearwardly facing clamping member fixed thereto in engagement with said implement support means on opposite sides of the tractor to position said snapping rolls in generally longitudinally aligned relation with said tractor, above and forwardly of the front wheel support of the tractor, said clamping members affording hinged movement of said corn-picking unit about the



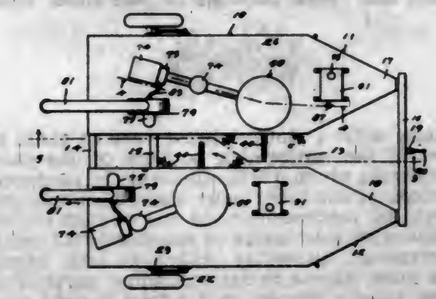
axis of said implement support means, power lift means on said tractor detachably pivotally connected with one of said frame members at a point vertically spaced from the hinge axis afforded by said implement support for swinging said picking unit about said hinge axis, a lost motion positioning means comprising a member having one end pivotally connected to one of said frame members in vertically spaced relation to said hinge axis and having its other end adjustably positionable on said tractor, said positioning means also affording a manual lift for said picking unit, and detachable driving connection between said snapping roll drive means and said power take-off comprising a flexible belt and an idler coacting therewith for maintaining said connection irrespective of the vertical position of said picking unit relative to the tractor.

2,651,159
ROTARY CUTTING DISK TYPE LAWN MOWER
Joseph G. Rountree, Sr., Beeville, Tex.
Application August 15, 1950, Serial No. 179,581
1 Claim. (Cl. 56—25.4)



In a lawn mower, including a horizontally wheeled bed plate and a motor mounted above the bed plate with its rotor shaft depending centrally through the bed plate, an elongated cutter bar of U-channel form in cross-section, the side flanges of said bar tapering off equally in opposite directions from elongated central portions of uniform height, cutting elements removably secured in the ends of the channel, a second cutter bar of inverted U-channel form in cross-section seated over the said central portions, said second cutter bar being of equal length to that of said central portions, and triangular cutting elements upturned from the ends of the intermediate portion of said second cutter bar, said cutter bars being centrally apertured to receive the lower end of said shaft.

2,651,160
COTTON HARVESTER
George P. Lucius, Drew, Miss.
Application April 27, 1950, Serial No. 158,474
1 Claim. (Cl. 56—44)



In a cotton harvester, a frame, a rotatable picking drum carried thereby, means in said frame operatively connected with said drum for rotating said drum, picker spindles spaced radially about said drum, outwardly inclined diametrically opposed pairs of teeth in said spindles, the teeth of each pair being positioned at an acute angle relative to each other and to said spindle and means for rotating said spindles correlated with said means for rotating said drum, said means comprising ring gears carried by said drum and coacting bevel gears carried by each spindle, the gear ratio being so arranged as to provide approximately four rotations of each spindle to each rotation of said drum.

2,651,161
COTTON PICKER SPINDLE
Delos A. Walker, Memphis, Tenn., assignor to International Harvester Company, a corporation of New Jersey
Application April 3, 1951, Serial No. 218,923
11 Claims. (Cl. 56—50)

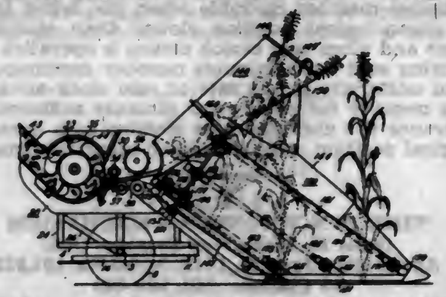


1. A cotton picker spindle having a shank portion and a plant entering section tapered from said shank portion toward an outer tip, said section including at least one row of cotton-retaining means extending from a point adjacent to its said tip and terminating at a point substantially midway of the length of said section.

2,651,162
FORAGE HARVESTER
Paul A. Whisler, La Porte, Ind., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application April 19, 1949, Serial No. 88,280
4 Claims. (Cl. 56—60)

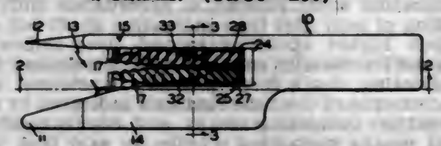
1. In a mobile forage harvester having a wheeled frame, a row crop cutting device carried at a forward portion of said frame, a transversely extending rotary chopping cylinder positioned in said harvester above and to the rear of said cutting device, transversely extending stalk feeding

rolls positioned in radially opposed relation to each other adjacent to and in front of said chopping cylinder and being substantially coextensive in length with said cylinder, said feeding rolls being adapted to feed stalks in a longitudinal direction opposite to the direction of travel of said harvester, a pair of gathering elements fixedly mounted on said frame and having side walls, respectively, at a predetermined transverse spacing from each other so as to form a narrow passage therebetween extending upwardly and rearwardly from said cutting device and terminating in proximity to said feeding rolls at a point forwardly opposite to one end of said chopping



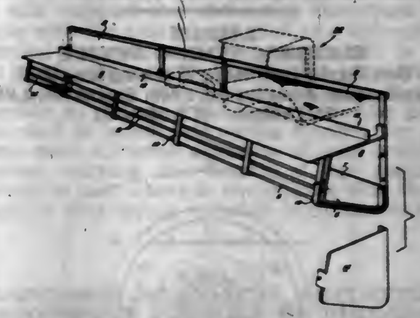
cylinder, a generally longitudinally extending stalk supporting chute member carried by said frame and having a rearward end portion extending in proximity to said feeding rolls from said upper end of said narrow passage to a point forwardly opposite to the other end of said chopping cylinder, and a cut stalk conveying mechanism carried by said frame and having an active portion operative in said narrow passage for presenting the butt ends of cut stalks to portions of said feeding rolls forwardly opposite to said one end of said chopping cylinder and for depositing upper portions of said presented stalks onto said chute member.

2,651,163
CORN HARVESTING UNIT WITH AUXILIARY SNAPPING ROLLS
John L. Aasland, Moline, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application December 30, 1949, Serial No. 135,956
2 Claims. (Cl. 56—107)



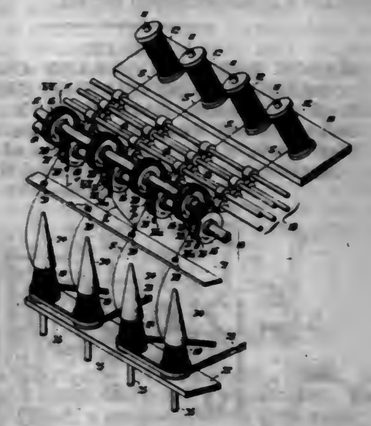
1. A gathering unit for corn pickers including spaced gathering points, gathering chains mounted in said gathering units and arranged and constructed to direct stalks of corn rearwardly therebetween, regular snapping rolls journaled in said gathering units and cooperating with each other to pull stalks of corn downwardly therebetween for snapping of ears therefrom, and relatively short auxiliary snapping rolls spaced vertically above said regular snapping rolls a distance slightly in excess of the length of an ordinary ear of corn and lying directly above and vertically over the rear portion thereof, whereby the stalks of corn that are broken by the regular snapping rolls will be pulled upwardly out of the gathering unit by the auxiliary snapping rolls and the ears of corn snapped therefrom.

2,651,164
SEED GATHERER
Frederick King Fleming, Willow Creek, Trunkey, New South Wales, Australia
Application January 13, 1949, Serial No. 70,695
In Australia February 16, 1948
5 Claims. (Cl. 56—126)



1. A harvester for the purpose set forth, comprising a horizontally disposed trough the floor of which slopes from its ends to a "low point" at about the middle of the trough for the accumulation of seed, a conveyor to lift seed from the low point, a grid formed of horizontal stripping bars spaced apart at a distance at least as great but not greatly exceeding the maximum normal height of an ear of the cereal crop intended to be harvested by the harvester, said grid being attached to and extending upwardly from the front edge of the trough substantially in the vertical plane, and including a screen extending upwardly from the rear of the trough.

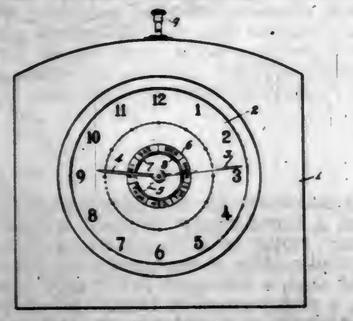
2,651,165
SPINNING MACHINE
Albert B. Cavallaro, Bristol, R. I., assignor to Collins & Aikman Corporation, Philadelphia, Pa., a corporation of Delaware
Application April 23, 1952, Serial No. 283,857
3 Claims. (Cl. 57—107)



1. In a spinning machine, laterally-spaced pairs of cooperative upper and lower nip rolls for delivering individual roving strands, a series of spaced guides disposed at a distance beyond the nip rolls for directing the strands enroute to separate rotating collecting bobbins; means carried on one side of the upper nip roll of each of said pairs and operative, in the event of breaking of the strand corresponding to one such pair

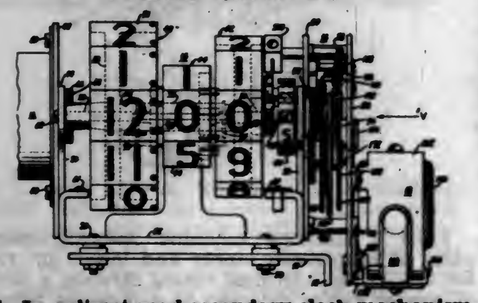
and entanglement thereof with the running strand next adjacent the aforesaid side of the upper roll of such pair, to engage and rupture the entangled end of the broken strand in the interval between the nip of said pair of rolls and the point of its entanglement with the neighboring running strand.

2,651,166
ELECTRIC TIMING DEVICE
Ben David Derfman, Washington, D. C.
Application January 29, 1948, Serial No. 5,967
15 Claims. (Cl. 58—19)



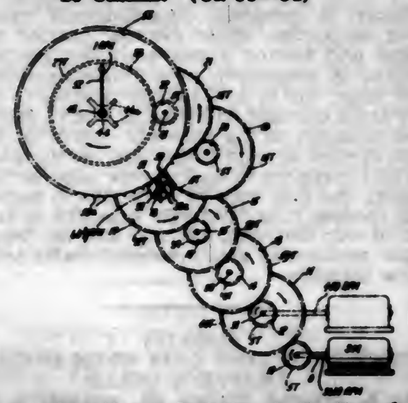
1. An electric timing device comprising an electric circuit, a battery in said circuit for powering said circuit, an electrically responsive device further in said circuit, a plurality of time indicating means, a time selector mechanism including a pair of separated contact points both arranged on an arc of the same circle and in series with said circuit and arranged when conductively bridged to complete said circuit, a rotating electrically conductive resilient whip for bridging said contacts at a predetermined point in its rotation, means for adjustably positioning said contacts in the path of said conductive whip, a plurality of gears for rotating said indicating means and said whip in synchronism, and an auxiliary manual switch mechanism for breaking said circuit at will, and selectively permanently and for a predetermined period.

2,651,167
DIRECT READ SECONDARY CLOCK AND CORRECTION MECHANISM THEREFOR
Alfred B. Benson, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application July 9, 1948, Serial No. 37,842
7 Claims. (Cl. 58—26)



1. In a direct read secondary clock mechanism, a rotatable seconds member, a rotatable units minutes member, means normally rotating said seconds member continuously and uniformly at its normal time-keeping rate of one revolution per minute, Geneva driving gear mechanism operatively connecting said members whereby continuous rotation of the seconds member causes intermittent rotation of the units minutes member, a rotatable clock-advancing member, clutch means normally connecting said clock-advancing member and seconds member in driving relationship for causing the latter to rotate at the speed of the former, a latch member normally rendering said clutch means inoperative, means for tripping said latch member to permit said clutch means to become operative, said last mentioned means comprising an electromagnet responsive to the reception of a signal at a predetermined chronological time, and coupling means between said clock-advancing member and units minutes member operable when the latter is at a chronological position slower than standard time and when said clutch means is operative for driving said units minutes member continuously and uniformly at the rate of said clock-advancing member for an angular distance sufficient to advance the units minutes member to a chronological position coincident with standard time.

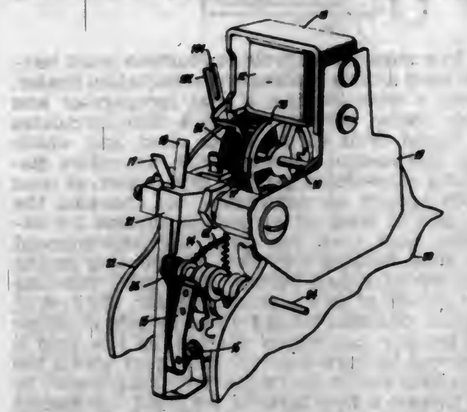
2,651,168
TIME SYNCHRONIZING MECHANISM
Oscar H. Dicke, New Bremen, Ohio
Application June 29, 1949, Serial No. 101,933
15 Claims. (Cl. 58—24)



1. In combination, a first time indicating shaft, first time indicating means frictionally connected to said first time shaft so that said first time indicating means may be set, a second time indicating shaft rotated in accordance with rotation of said first time indicating shaft but at a much higher speed, a second time indicating means frictionally connected to said second time indicating shaft for indicating fractional time increments of the time elements indicated by said first time indicating means, and wholly mechanical means supported wholly by said first time indicating means and at times directly engaging said second time indicating means to thereby set said second time indicating means so as to cause said second time indicating means to indicate definite equal fractional increments of and in addition to the time elements indicated by said first time indicating means.

2,651,169
CLOCK SYNCHRONIZING APPARATUS
Raymond H. Barrows, Johnson City, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application November 23, 1949, Serial No. 129,017
1 Claim. (Cl. 58—24)

In a secondary clock for use in a clock system wherein a spring-driven secondary clock is periodically brought into time agreement with a master clock by an electrical impulse transmitted by the master clock during the final portion of each of predetermined units of time, the combination of a spring-driven marine escapement mechanism in said secondary clock including a balance wheel constructed and arranged to oscillate about a normal rest position at a frequency greater than that necessary to measure accurate time as defined by the master clock and composed principally of a non-magnetic material, a magnetic slug insert mounted in the periphery of said balance wheel, a time shaft rotating under control of said escapement mechanism at a rate in excess of one revolution per said unit of time, electrical contacts, a cam on



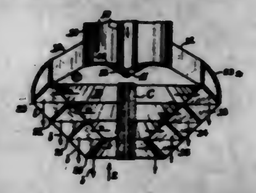
the said shaft constructed to close said electrical contacts during an initial portion of said unit of time as measured by the secondary clock, an electromagnet adjacent the periphery of said balance wheel and so located as to attract when energized the said slug and arrest the oscillation of said balance wheel at an angular position of the balance wheel other than said normal rest position, a circuit in which said contacts and said electromagnet are connected for receiving the electrical impulse from the master clock to energize said electromagnet when said cam closes said electrical contacts during said initial portion and when said initial portion concides with the transmission of the electrical impulse from the master clock.

2,651,170
BALANCE MECHANISM FOR WATCHES AND CLOCKS
James English, Winsted, Conn.
Application May 26, 1949, Serial No. 95,509
4 Claims. (Cl. 58—117)



3. In a timing device, a balance mechanism including a pivotally mounted balance staff, a balance wheel supported on said staff, means imparting oscillating movement to said wheel and controlled thereby, and stop means for variably limiting the length of the oscillating strokes of the said wheel to thereby increase and reduce the number of strokes in a given period of time; the said stop means including an opening in said wheel having spaced parallel elongated sides disposed at opposite sides of an axis extending radially from the fulcrum of said wheel, a support, a hair spring member mounted on said support and extending therefrom on a plane with the axis of said staff and through said opening for abutment with said walls to limit the length of the oscillating strokes of said wheel, and means for adjusting the said hair spring member to different distances from the axis of said staff to locate said spring member for abutment with different portions of said walls and thereby varying the length of the oscillating strokes of said wheel in accordance with the distance of said spring member from the said axis.

2,651,171
PROPULSION APPARATUS ACTUATED BY SUCCESSIVE CHARGES OF DETONATING MATERIALS
Robert H. Goddard, deceased, late of Annapolis, Md., by Esther C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y., a corporation of New York
Original application May 21, 1945, Serial No. 594,846, now Patent No. 2,515,642, dated July 18, 1950. Divided and this application February 6, 1950, Serial No. 142,671
4 Claims. (Cl. 60—35.6)

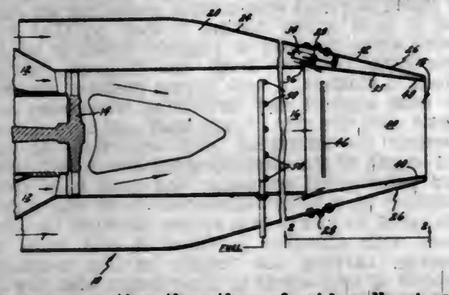


1. Propulsion apparatus comprising a detonating chamber having a longitudinal axis and having an axial combustion-gas discharge opening, a plurality of annular deflectors forming the side wall of said detonating chamber and disposed in a spaced series along the axis of said chamber, the explosive charge being detonated within said chamber and substantially spaced from said deflectors, said deflectors being of substantially the same width but progressively decreasing in maximum diameter in the direction of gas discharge, and each deflector comprising a segment of a substantially 45° cone which has its inner segmental surface conically expanding in the direction of gas discharge.

2,651,172
COOLING MEANS FOR VARIABLE AREA NOZZLES
William G. Kennedy, Wethersfield, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application August 15, 1952, Serial No. 304,461
12 Claims. (Cl. 60—35.6)

1. In a variable area nozzle for a passage, said passage terminating in an opening defined by a lip, a plurality of members movably mounted adjacent said opening including a pivot laterally spaced from said opening, said members including double walls with at least one end of said walls being spaced apart to form a space therebetween, one of said walls being in juxtaposed relation with said lip at said one end and the

other of said walls being laterally spaced from said lip at said one end, and pivot means operatively connecting the other of said walls at said one end to fixed structure laterally spaced from said passage.

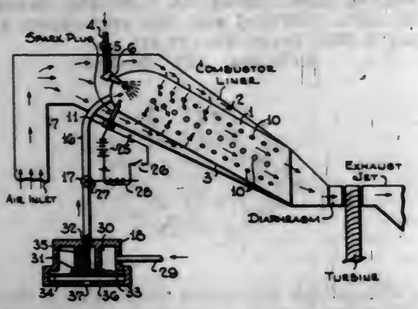


2,651,173

PROCESS AND APPARATUS FOR OPERATING ENGINES AT HIGH ALTITUDES

Herman L. Thwaites, Clark Township, Union County, and Barrett B. Russell 3rd, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application January 26, 1949, Serial No. 72,972
8 Claims. (Cl. 60—39.06)



1. The method of operating ram jet and gas turbine engines normally supplied with a hydrocarbon fuel and air compressed by operation of the engine which comprises initiating combustion in said engine by introducing a stream of the said hydrocarbon fuel and oxygen gas in place of air into the combustion chamber of the engine, whereby the combustion zone is enriched in oxygen above the proportion normally present, simultaneously igniting said hydrocarbon fuel in the combustion atmosphere enriched in oxygen whereby combustion is initiated developing power to supply compressed air to said engine, and thereafter discontinuing the said introduction of oxygen to the combustion chamber and continuing normal operation of said engine with the said hydrocarbon fuel and compressed air developed by operation of the said engine.

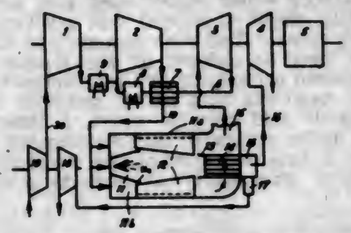
5. In combination with a ram jet engine, a spark plug positioned in the combustion zone of the engine, a fuel inlet into said combustion zone adjacent the spark plug, an air inlet into the combustion zone, a storage vessel containing oxygen gas, an auxiliary oxygen line connected to said storage vessel opening directly into the said combustion zone adjacent the spark plug, a valve positioned in the said oxygen line, means associated with said valve adapted to prevent flow of oxygen to the combustion zone when the spark plug is inoperative and permitting flow of oxygen to the combustion zone when the spark plug is operated.

2,651,174

SEMICLOSED CYCLE GAS TURBINE PLANT

Georges Belozian, Paris, France

Application October 28, 1948, Serial No. 56,973
In France November 3, 1947
7 Claims. (Cl. 60—39.18)



1. In a semi-closed cycle gas turbine plant having at least a cycle compressor, a radiation heater, at least a cycle turbine, a heat recuperator and a cycle cooler, through which a fluid circulates in a closed cycle in the order cited, and which has a combustion chamber with an outlet discharging combustion gas into said heater, at least an atmospheric air compressor for charging the cycle and at least an extraction turbine for extracting fluid from the cycle, the improvement in its fluid heating and fluid distributing means which includes two parallel fluid inlet conduits at the intake of said radiation heater, the first of said inlet conduits being formed by said combustion chamber into which one part of the fluid is introduced to burn the fuel and from which the combustion gas is discharged into said heater to form therein a first layer of hot fluid, the second of said inlet conduits discharging fluid directly into said heater to form therein a second layer of fluid which is parallel to said first layer and which remains in direct contact with said first layer, the fluids of said two layers being partially mixed only at the zone of their contact boundary, radiant heat absorbing elements placed in said heater behind said second inlet conduit, substantially in said second layer and parallel to its flow, said elements being arranged to absorb the radiant heat of said first layer and to heat the fluid of said second layer on their two faces through heat transmitting contact therewith, conduit means at the exit of said heater after said radiant heat absorbing elements, said conduit means having an intake opening facing said outlet of the combustion chamber and so dimensioned with respect to the cross section of said outlet of the combustion chamber that at least the greatest part of the unmixed fluid of said second layer remains out of said conduit means, and other conduit means at the exit of said heater for passing the unmixed fluid of said second layer into the cycle turbine.

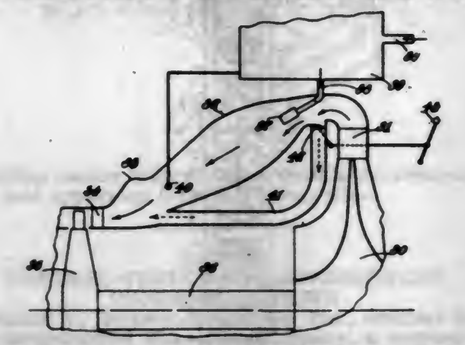
2,651,175

CONTROLLING COMBUSTION SYSTEM OF GAS-TURBINE ENGINES

Alan Arnold Griffith, Derby, England, assignor to Rolls-Royce Limited, Derby, England, a British company

Application September 15, 1947, Serial No. 774,114
In Great Britain September 11, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires September 11, 1966
6 Claims. (Cl. 60—39.23)

1. A gas-turbine engine comprising a compressor, a combustion chamber having an inlet connected to receive compressed air from said compressor and having an outlet therefrom, fuel supply means arranged to deliver fuel to said combustion chamber to heat the air flowing therein and including a fuel supply control valve, a by-pass conduit connected to receive compressed air from said compressor and connected to deliver the by-passed air to mix with heated air leaving said combustion chamber through its outlet, a turbine connected with the outlet from the combustion chamber and with the outlet end of the by-pass conduit to receive the mixture of by-passed air and heated air; valve means arranged for manual adjustment to control the ratio of the quantity of compressed air entering the combustion chamber to that entering the by-pass conduit, said valve means constituting the sole power-selecting control of the engine, and thermostat means arranged within the combustion chamber to respond to a temperature condition in the combustion chamber and arranged to adjust said fuel supply control valve to vary the supply of fuel to the combustion chamber to maintain said temperature condition in said combustion chamber.

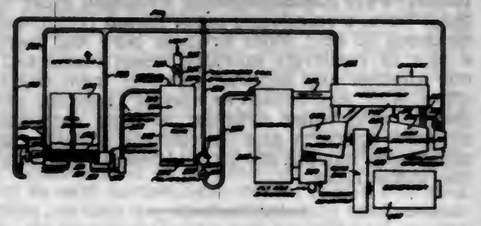


2,651,176

COAL FIRED GAS TURBINE POWER PLANT

John I. Yellott, Baltimore, Md., assignor to Bituminous Coal Research, Inc., Washington, D. C., a corporation of Delaware

Application August 17, 1946, Serial No. 691,207
2 Claims. (Cl. 60—39.46)



1. A solid fuel-fired gas turbine power plant comprising a combustor using pulverulent fuel, a fuel pulverizer discharging directly into the combustor, a fuel bunker, a fuel conveyor incorporating a comminuting means, the fuel bunker having sloping sides with a trough at its base into which the conveyor extends and from which it rises to deliver fuel to a second comminuted fuel receptacle; means for delivering heated air into the first said receptacle and conveying heated, dried, comminuted coal to the second said receptacle, the said air being vented to the atmosphere; and a second heated air supply for carrying comminuted coal from the said second receptacle to the fuel pulverizing means and combustor.

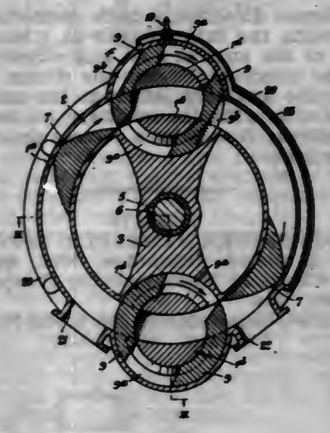
2. In a coal-fired gas-turbine plant, the combination with a gas turbine and its shaft of a compressor; a combustor for supplying heated gases to the turbine; a comminuted coal receptacle; conduit means discharging air from the compressor to deliver the comminuted coal from its receptacle through a convergent nozzle pulverizer into the combustor; and means in the combustor for delivering the combustion air to the pulverized fuel and cooling air to the combusted products of reaction of the fuel.

2,651,177

ROTARY PISTON INTERNAL-COMBUSTION ENGINE

James Everard Pridham, Parkstone, England

Application November 8, 1949, Serial No. 126,151
In Great Britain November 2, 1948
4 Claims. (Cl. 60—39.61)



4. A rotary internal combustion engine comprising a co-operating circularly grooved stator and a rotor forming an annular cylinder therebetween, pistons mounted on said rotor to work in said cylinder, a number of circular section hollow symmetrical rotary abutments arranged, on rotation, to divide said cylinder intermittently into a number of compartments, the walls of each said abutment being provided with diametrically opposed slots to permit the passage of said pistons therethrough when said slots are in alignment with the annular cylinder, two diametrically opposed combustion recesses provided in the outer surface of at least one said abutment, means for driving said abutments in timed relationship with said rotor, said pistons functioning to supply fuel under pressure to said combustion recesses in turn, means for igniting fuel in a combustion recess and subsequently releasing it to drive a piston around the annular cylinder, and means for exhausting burnt fuel from said cylinder.

2,651,178

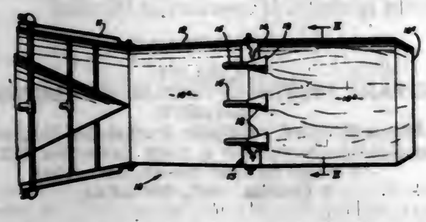
COMBINATION INJECTOR AND STABILIZER FOR GAS TURBINE AFTERBURNERS

Frederick Denison Morgan Williams, Weston, Ontario, Canada, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada

Application January 18, 1951, Serial No. 206,648
3 Claims. (Cl. 60—39.72)

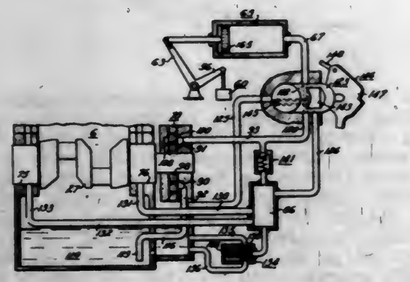
1. An afterburner for a gas turbine engine, comprising a combustion chamber defined by an outer wall providing a duct through which a stream of gas is caused to flow, a hollow injector tube in the duct for injecting fuel into the com-

bustion chamber, the injector tube being disposed with its longitudinal axis parallel to the stream of gas and having open ends providing a fuel jet at each end, the jet at the downstream end of the tube being an auxiliary jet discharging in a downstream direction and the jet at the other end of the tube being a main jet discharging in



an upstream direction, a baffle connected to and surrounding the injector tube at a location upstream of the auxiliary jet and extending away from the injector tube into the stream of gas to protect the auxiliary jet from the gas stream, igniting means for the auxiliary jet, and means for supplying fuel from a remote source to the injector tube.

2,651,179
DUAL PRESSURE HYDRAULIC APPARATUS
Arthur R. Bleed, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Application September 9, 1950, Serial No. 183,976
7 Claims. (Cl. 60—52)



4. Hydraulic apparatus for supplying high and low pressure fluid, respectively, to first and second devices comprising, a source of fluid, a pump having an inlet and a pressure fluid outlet, a passage placing said pump inlet in communication with said source, a supply passage in pressure fluid receiving relation with said pump outlet, control valve means connected in pressure fluid receiving relation with said supply passage and selectively operable to connect said supply passage either with a first passage means in communication with said first device or with a second passage means in communication with said second device, and means for limiting pressure build-up in said second passage means while said second passage means is connected by said valve means in pressure fluid receiving relation with said supply passage, said pressure limiting means including a relief valve adapted to bypass fluid from said second passage means to said source at a pressure considerably lower than the pressure which said pump is adapted to build up in said first device upon connection of said first passage means with said supply passage by said valve means.

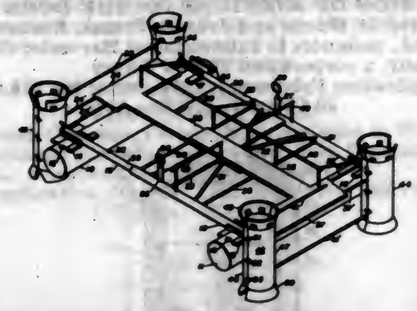
2,651,180
COMPOUND HYDRAULIC MOTOR FOR MOLDING PRESSES
John Haller, Northville, Mich.
Application May 18, 1949, Serial No. 93,936
4 Claims. (Cl. 60—97)



1. A compound hydraulic motor comprising an outer hydraulic cylinder having an outer bore with axially-spaced fluid passageways communicating therewith, said outer cylinder having an aperture in one end thereof, a hollow outer piston reciprocably mounted in said outer bore and having a bore therein coaxial with said outer cylinder bore, an outer piston rod connected to said outer piston and extending externally of said outer cylinder, an inner hydraulic cylinder extending from the exterior of said outer cylinder inwardly through said outer cylinder aperture into sliding engagement with said outer piston bore, said inner cylinder having a bore therein coaxial with said outer cylinder bore and said outer piston bore, said inner cylinder having an aperture in one end thereof and having axially-spaced fluid passageways communicating with said inner cylinder bore, a compound inner piston reciprocably mounted in said inner cylinder bore and having a pair of relatively movable heads connected to one another and separable axially from one another, and mechanism extending from the exterior of said inner cylinder through said inner cylinder aperture and operatively engaging and adjustably moving one of said heads relatively to the other head.

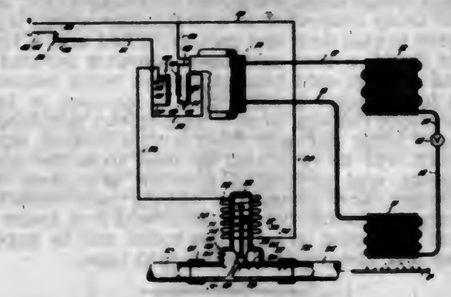
2,651,181
FLOATING TELESCOPIC PILING TEMPLATE
Irwin W. Alcorn and Daniel F. Dial, Jr., Houston, Tex., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
Application August 20, 1948, Serial No. 45,405
3 Claims. (Cl. 61—63)

1. An apparatus for the erection of a structure of driven piles in the bed below a body of water, comprising a plurality of structural members to support a working platform, buoyant means attached to said members for floating said platform on water, pile guiding means attached to several longitudinal members of said working platform, said longitudinal members being adjustable in length, each of said pile guiding means comprising laterally releasable columnar units, the length adjustment of said longitudinal members and the releasability of said pile



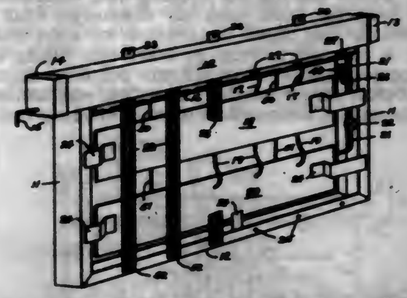
guiding means cooperating to permit the removal of said apparatus from the driven piles.

2,651,182
CONTROL SYSTEM FOR REFRIGERANT CONDENSING UNITS
William F. Bergerd, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application December 29, 1950, Serial No. 203,449
3 Claims. (Cl. 62—4)



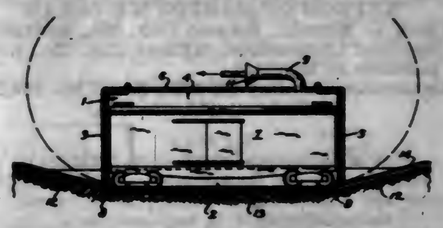
1. In a refrigeration system, the combination of a hermetically sealed casing, a compressor, a motor for the operation of said compressor, said motor and said compressor mounted within said hermetically sealed casing, a first circuit for connection to a power source, said first circuit including a thermostatic switch, a resistor, and said motor, said resistor formed to radiate quantities of heat proportional to the current therethrough, said thermostatic switch mounted in close proximity to said hermetically sealed casing and said resistor, so that any heat radiated by said resistor and any heat radiated by said hermetically sealed casing will be radiated to said thermostatic switch, a condenser connected to said compressor, water spray means for cooling said condenser, a solenoid valve for controlling the operation of said spray means, a second circuit for connection to said power source, said second circuit including a second thermostatic switch and said solenoid valve, said second thermostatic switch positioned in close proximity to said resistor, so that any heat radiated from said resistor will heat said second thermostatic switch, said first thermostatic switch being biased so that the contacts thereof are closed when the heat radiated from said hermetically sealed casing and the heat radiated from said resistor are in a normal range, said second thermostatic switch being biased so that the contacts thereof are open when the heat radiated from said resistor is in a normal range.

2,651,183
COMPACT REFRIGERATION UNIT FOR VEHICLES USING ICE FOR CONDENSING VOLATILE REFRIGERANTS
Robert T. Brinsmaid, New Derp, N. Y., assignor to Cold Control, Inc., New York, N. Y.
Application September 2, 1949, Serial No. 114,015
3 Claims. (Cl. 62—15)



1. A refrigeration unit comprising a relatively long, relatively narrow ice bin, a relatively long, relatively narrow condenser in contact with the lower side of the bin, a first plate type, relatively long, relatively narrow evaporator spaced below said condenser, a second plate type, relatively long, relatively narrow evaporator spaced below said first evaporator, a first plurality of small tubes connecting the bottom of the condenser with the upper portion of the first evaporator, a second plurality of small tubes connecting the bottom of the first evaporator with the interior of the second evaporator below the top thereof, and a tube having a thermostatically controlled stop valve connected therein connecting the second evaporator below the top thereof with the bottom of the condenser.

2,651,184
VACUUM METHOD AND DEVICE FOR COOLING PRODUCE
Morris Kasser, Roseville, Calif.
Application November 14, 1949, Serial No. 127,991
10 Claims. (Cl. 62—89)

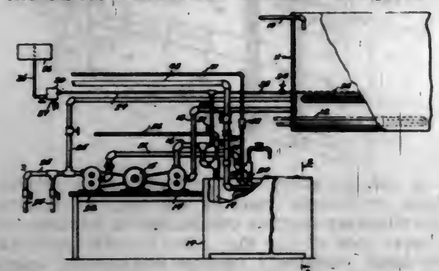


5. An apparatus for cooling produce comprising a closed chamber, a device to draw rapid vacuum in said chamber, openable means to allow entrance into and exit from said chamber, and a pit formed in the bottom of said chamber containing liquid.

2,651,185
APPARATUS FOR PROCESSING LIQUIDS TO CONVERT THEM INTO SEMISOLID OR SOLID FORM
Henry T. Shore, Savannah, Ga.; Harry T. Shore, Jr., executor of said Henry T. Shore, deceased
Application November 2, 1949, Serial No. 125,967
4 Claims. (Cl. 62—114)

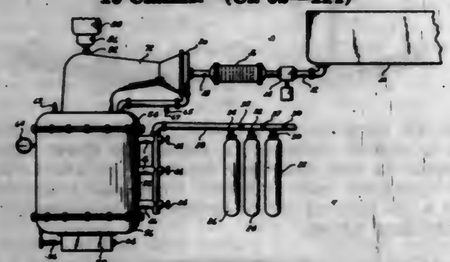
1. Apparatus for processing a liquid to convert it to a semi-solid state, comprising a holding tank

for receiving and holding the liquid to be treated; a refrigerating compartment; a chilling coil mounted in said compartment and having an inlet connection and an outlet connection for the continuous passage of such liquid therethrough; means for refrigerating said compartment to convert the liquid to a semi-solid state during its flow through said coil; a positive displacement gear pump having its suction end connected to said holding tank and its discharge end connected to the inlet connection of said chilling coil; a conduit having at least one filling spout connected thereto; a second positive displacement gear pump having its suction end connected to the outlet connection of said chilling coil and



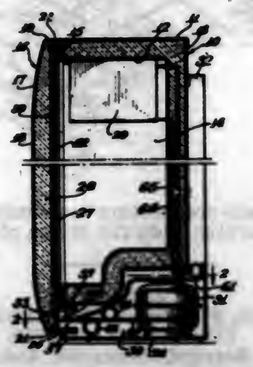
its discharge end connected to said conduit; a motor connected to drive said pumps at a constant speed to deliver said liquid from said holding tank into said chilling coil where it is converted into a semi-solid and to deliver the semi-solid formed in the chilling coil to the filling spout and to agitate the liquid and semi-solid as it passes through the respective pumps; and a small defrosting conduit adapted to be connected to a source of heating medium mounted within and extending through said chilling coil for preventing the semi-solid material passing therethrough from freezing and clogging up the chilling coil and for quickly melting the semi-solid material therein whenever the chilling coil is to be cleaned out.

2,651,186
CONTINUOUS ICE-CREAM FREEZER AND METHOD OF MAKING ICE CREAM
Walter L. Murphy, Kansas City, Mo., assignor to De-Raef Corporation, Kansas City, Mo., a corporation of Missouri
Application January 17, 1951, Serial No. 206,378
10 Claims. (Cl. 62—114)



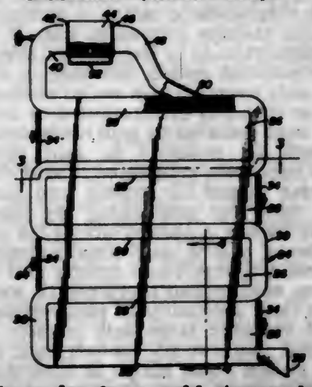
7. A method of freezing ice cream including the steps of mixing a chilled gas with an ice cream mix to precool the same in a mixing zone, chilling the precooled mix by heat exchange with an expanded gas in a heat exchange zone, passing the expanded gas from the heat exchange zone to the mixing zone as the chilled gas being incorporated in the mix, and continuously expanding a compressed gas in the heat exchange zone to supply the chilled, expanded gas.

2,651,187
REFRIGERATING APPARATUS HAVING MEANS FOR PREVENTING CONDENSATION OF MOISTURE ON THE DOOR
Charles D. Harris and John R. Prosek, Evansville, Ind., assignors to International Harvester Company, a corporation of New Jersey
Application February 7, 1952, Serial No. 270,426
10 Claims. (Cl. 62—116)



9. In a refrigerated cabinet having a storage compartment, a door for closing said compartment, a coil positioned in heat exchange relation with said door, a refrigeration system comprising a compressor, condenser and evaporator, said coil being connected to a first boiler which is secured to said door and partially filled with a volatile liquid, a heat exchanger movably secured to said cabinet, said heat exchanger being connected to a second boiler which is fastened in heat exchange relation to said compressor, said second boiler being partially filled with a volatile liquid which will be vaporized by heat from the compressor and circulated through said heat exchanger, and means for biasing said heat exchange unit into contact with said first boiler so that the liquid in said first boiler will be vaporized and circulated through said tube.

2,651,188
AIR CIRCULATING COOLER HAVING A PLURALITY OF ICE COMPARTMENTS
Ralph W. Rheads, Sr., Springfield, Mo.
Application December 17, 1951, Serial No. 262,122
5 Claims. (Cl. 62—131)



1. An air cooler for a cold storage box comprising a plurality of ice receiving compartments, an air conduit adjacent said ice receiving compartments, means for circulating air through said conduit, said air conduit being provided

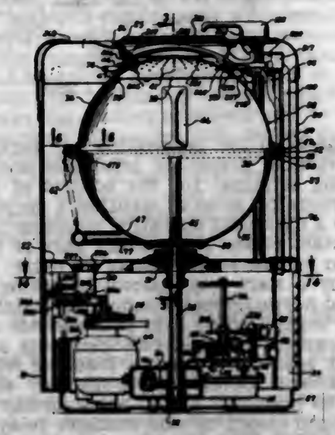
with a plurality of vertical continuous partitions to divide said air conduit into a plurality of separate conduits, said partitions being provided with longitudinally extending corrugations in order to insure turbulence of air passing through said conduit.

2,651,189
PHOTOFLASH LAMP
Norman C. Beese, Verona, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 27, 1951, Serial No. 233,875
4 Claims. (Cl. 67—31)



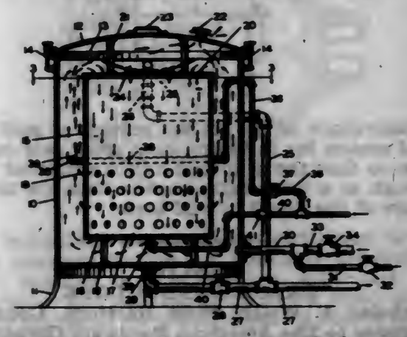
3. A photoflash lamp comprising a light transmitting envelope and having combustible material therein, a filament adapted to heat said material, a heat conductive support for said material, and a thermal insulator between said material and said support.

2,651,190
CLEANING AND EXTRACTING APPARATUS
John F. Horvath, Milwaukee, Wis., assignor to Appliance Corporation of America, Milwaukee, Wis., a corporation of Wisconsin
Application January 30, 1947, Serial No. 725,299
11 Claims. (Cl. 68—12)



6. A washing and extracting machine, comprising, a container for textile materials and liquid, said container having agitating means in the lower portion thereof and having a flexible liner therein and an apertured closure, a pump and pipe line for introducing high-pressure liquid behind the liner for pushing the liner forwardly for extracting purposes, a conduit connecting a rinse liquid supply with the interior of the container in front of the liner, a valve in said conduit, a further pipe leading from said pipe line, a pipe connection between said further pipe and said conduit for conducting liquid from behind the liner to in front of the liner for rinse purposes, and a valve in said pipe connection for controlling said last mentioned passage to liquid to in front of the liner.

2,651,191
WASHING MACHINE FOR AGITATING CLOTHES AND CLEANSING LIQUID BY THE USE OF AIR JETS SUBMERGED IN SAID CLEANSING LIQUID
John Barnes, Milwaukee, Wis.
Application August 9, 1949, Serial No. 109,257
4 Claims. (Cl. 68—183)

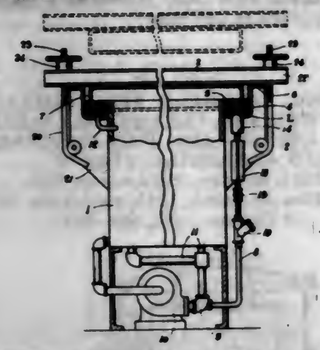


1. A device of the character described comprising in combination, a receptacle open at its top, a cover for said receptacle, a container provided with apertures around its outer wall near the lower end thereof and supported within said receptacle the top of said container being below the top of said receptacle, said container open at its top and of a dimension smaller than the inside diameter of said receptacle, a tubular water supply line entering said receptacle, a drain at the bottom of said receptacle, a perforated tubular member extending around the outer periphery of said inner container above said perforations in the wall of said container, a tubular member provided with a jet extending below said container, said jet centrally disposed below said container, said container provided with apertures through the bottom thereof, means for supplying compressed air to said tubular members, said tubular members, said water supply line, and said drain provided with controlling means for regulating the flow of air and water.

2,651,192
CLOSURE FOR PROCESSING TANKS
George C. Lowe, Worcester, Mass., assignor to William Allen Son's Company, Worcester, Mass., a corporation of Massachusetts
Application July 2, 1949, Serial No. 102,729
3 Claims. (Cl. 68—194)

1. A tank, said tank being open at its top, an open trough extending entirely around the top of said tank, the bottom of said trough overhanging the tank wall and the inner edge of said trough being at a lower level than its outer edge, a flat flange extending outwardly from said trough's outer edge, a cover for said tank resting on said trough flange and having a downwardly extending sealing portion positioned substantially in the middle of said trough, with the lower end of said sealing portion terminating above the bottom of said trough, a pump having its inlet and outlet connected to said tank for maintaining a circulation of heated liquid within said tank, a connection between the pump outlet and

the bottom of said trough for diverting a portion of the liquid handled by said pump to said trough to maintain a continuous liquid seal between the interior and exterior of said tank, due to the



submergence of the sealing portion of said cover, and means for radiating heat from said connection so that the sealing liquid is delivered to the trough at a temperature lower than the temperature of the liquid in said tank.

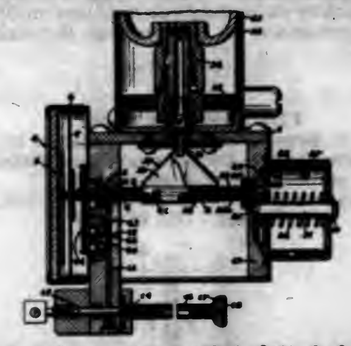
2,651,193
LATCH SPINDLE LOCK
Nicholas A. Welch, West Hartford, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a corporation of Connecticut
Application August 22, 1950, Serial No. 180,718
8 Claims. (Cl. 70—211)



5. For a latch mounted to a door and having an operating spindle, a lock comprising a housing, a locking member rotatably supported in said housing and secured to said spindle, a locking bolt slidable in said housing and engageable with said locking member, key operated mechanism for moving said locking bolt into locked and unlocked positions, a holding plate secured to the door, means on said housing detachably engaging said holding plate to prevent rotation of the lock for rotating the spindle, and means preventing removal of the lock from the spindle to thereby render the said holding plate inaccessible from the outside of the door.

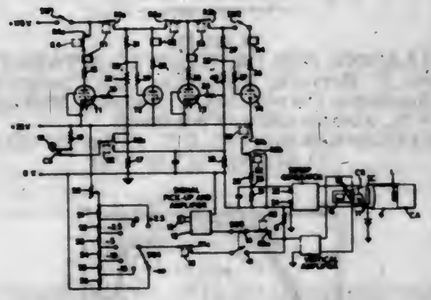
2,651,194
FREEZEMETER
John W. Dickey, Newfield, and E. Elliott Hood, Elmira, N. Y., assignors to Bendix Aviation Corporation, a corporation of Delaware
Application January 21, 1952, Serial No. 267,452
4 Claims. (Cl. 73—17)

1. In an apparatus for determining the thawing point of a liquid, a thermometer having a tubular stem with a temperature-responsive element therein, a freezing tube surrounding the stem and extending beyond the temperature-responsive element therein, means for filling the tube with the liquid to be tested, a source of gas at low temperature terminating in a nipple spaced laterally from said tube at an intermediate point



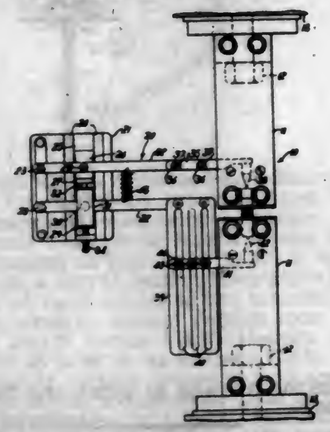
in its length, an open-ended slotted sleeve partially surrounding the tube, and a tapered conduit connected at its throat to the nipple and at its mouth to the slot of the sleeve.

2,651,195
APPARATUS FOR INDICATING VARIABLE CONDITIONS IN MACHINES
John R. Engstrom, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application February 21, 1950, Serial No. 145,842
4 Claims. (Cl. 73—69)



1. Apparatus for controlling an oscillograph having vertical deflecting terminals and a synchronizing terminal for the control of a single sweep generator, so as to manifest a varying condition in a cyclically operating machine having a cam contact closed for a small part of its cycle and open for the remainder of its cycle; characterized by a start relay circuit including a start relay and normally non-conductive switch means therefor controlled by said cam contact on closing; a transfer relay circuit including a switch closed by said start relay, a transfer relay, and switch means therefor controlled by said cam contact on opening; a stop relay circuit including a switch closed by said transfer relay, a stop relay and switch means therefor; switch means controlled by said transfer relay for switching said cam contact to control said stop relay switch means on closing a second time; a circuit including switch means controlled by said start relay for transmitting a start signal to said synchronizing terminal; signal generating means controlled by the varying condition to be manifested; and circuit means normally connecting said signal generating means to said vertical deflecting terminals and including circuit opening means controlled by said stop relay.

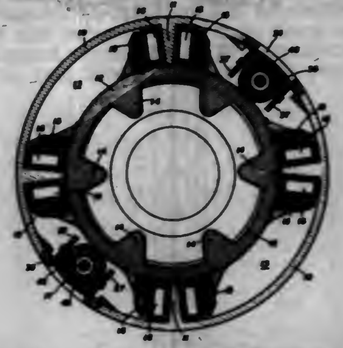
2,651,196
EXTENSOMETER FOR TESTING METAL OBJECTS
Robert H. Finkel, Chicago, Ill.
Application July 15, 1949, Serial No. 104,929
4 Claims. (Cl. 73—88.5)



1. For a testing device having a pair of testing grips, and means connecting a test specimen to the grips, the grips being relatively movable for elongating the specimen; an extensometer for measuring the elongation of the specimen, said extensometer including a support, a pair of longitudinally extending arms mounted on said support, means pivotally connecting one of said arms to said support for relative lateral movement with respect to the other arm, a contact member on each arm, each contact member including a sloping surface terminating in a contact end, the contact end of one contact member facing the contact end of the other, means connected to the arms for biasing the contact members into point to point engagement with opposite ends of a test specimen whereby the contact members and the arms are moved in direct response to the stretching of the specimen, means on the extensometer for adjusting the contact members whereby the contact members may be moved into longitudinal alignment with respect to each other and a specimen to be tested, current control means carried by said support and means on one of said arms for actuating said current control means in response to longitudinal movement of one contact member with respect to the other.

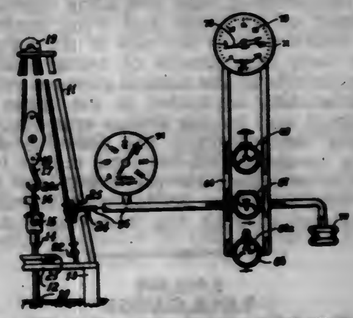
2,651,197
TORQUE INDICATING AND SHOCK ABSORBER DEVICE
Robert R. Crockston and James S. Waters, Houston, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application December 16, 1950, Serial No. 201,312
6 Claims. (Cl. 73—136)

1. A torque indicating and shock absorbing device adapted to embrace a driven shaft having a vertically positioned axis which comprises, in combination, an outer housing defining with an outer surface thereof spaced scale markings extending generally circumferentially and axially spaced from one another, said outer housing having at least one window therein, an inner housing concentrically arranged in said outer housing defining an annular space with said outer housing and adapted to receive engaging means for said driven shaft, at least one radial inwardly extending member arranged on said outer housing in said annular space, at least one outwardly extending member arranged on said inner housing in said annular space horizontally removed from said inwardly extending member, at least one deformable bag member adapted to contain a hydraulic fluid arranged between said inwardly and outwardly extending members, and



an indicating means fluidly connected to said bag member having an indicator arranged in said window in juxtaposition with said scale markings and adapted to display a value on said scale markings on transmission of rotary motion to said driven shaft and compression of said bag member by arcuate movement of said inner housing relative to said outer housing.

2,651,198
WEIGHT ON BIT INDICATOR
John T. Hayward, Tulsa, Okla.
Original application January 31, 1946, Serial No. 644,534. Divided and this application March 15, 1950, Serial No. 149,906
7 Claims. (Cl. 73—151)



7. In earth boring apparatus including a drilling string carrying a drilling bit and means to support said drilling string in a well, a weight-on-bit registering device comprising a load-responsive means of the pressure-fluid actuated type operatively connected with said support means, a conduit connected to said load-responsive means for the reversible flow of fluid therethrough in response to increases and decreases in load on said support means, a variable volume fluid reservoir connected to close the outer end of said conduit, valve means interposed in said conduit between the load-responsive means and the reservoir and actuated by changes in fluid pressure in said conduit resulting from contact of the bit with the well bottom and retraction therefrom to respectively close and open, and differential pressure measuring means connected across said valve means.

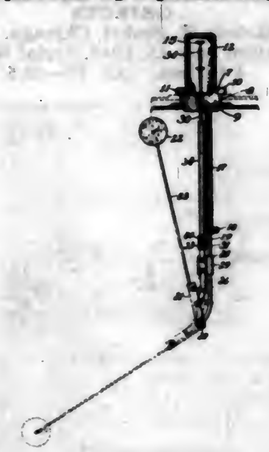
2,651,199
PROTECTIVE GUIDE DEVICE FOR WELL INSTRUMENTS
Charles P. Collins, Denver, Colo., and Charles A. Brokaw, Dallas, Tex., assignors to Eastman Oil Well Survey Company, Denver, Colo., a corporation of Delaware
Application August 2, 1946, Serial No. 687,838
2 Claims. (Cl. 73—151)



1. A guide device and retrieving structure adapted to be connected to the outer casing of a well instrument as a unit and including, a support having a cylindrical portion which is axially aligned with the casing when connected thereto, a flexible guide member mounted on said support, said member comprising a tubular body portion received on the cylindrical portion of the support and having elongate guide elements in the form of ribs projecting outwardly therefrom at spaced points therearound, said ribs being disposed longitudinally of the body and lying normally in planes which pass to one side of the axis of the tubular body but capable of being flexed to a position outside of the normal plane, a retrieving head detachably connected to the upper end of the support and having means engageable by a retrieving tool, whereby the assembly may be lifted by means of said tool, and means for connecting a lowering and retrieving line directly to the support when desired and including an axial passage through the retrieving head.

2,651,200
TANK GAUGE
Beari E. Colburn, Green Bay, Wis.
Application August 15, 1946, Serial No. 690,715
11 Claims. (Cl. 73—317)

1. In an indicator, the combination with a mounting, of an indicator rod, a rod extension slidably adjustable upon said rod, means for locking the rod and extension in selected adjustment, a bracket comprising a part connected with said mounting and another part slidably adjustable respecting the first-mentioned part, means for locking said slidable bracket part in selected adjustment, a float lever pivoted to the slidably adjustable bracket part, a slide reciprocable on a bracket part and to which said indicator rod extension is terminally fastened whereby to laterally brace said indicator rod extension at its fastened terminal, and a link pivoted to the slide and to the float lever for communicating movement of the float lever to the slide and the extension and the indicator rod, said slidable bracket part having a portion aligned with



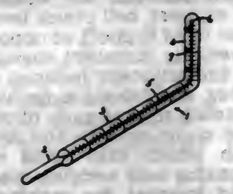
the indicator rod and to which the float lever is pivoted.

2,651,201
MEASURING INSTRUMENT FOR DETERMINING THE HUMIDITY OF GASEOUS MIXTURES
George de Mestral, Prangins, Switzerland, assignor to Tesa S. A., Renens, Switzerland
Application March 22, 1951, Serial No. 217,011
In Switzerland December 12, 1950
9 Claims. (Cl. 73—335)



1. A measuring instrument for determining the humidity of a gaseous mixture comprising a transparent cylinder mounted for pivotal movement, a chart on said cylinder, a diffusion chamber at least partially located inside the upper end of said cylinder for receiving a liquid to produce a saturated atmosphere of said liquid in said chamber, said diffusion chamber having at least in part porous walls, a U-tube manometer substantially inside said cylinder, one leg of said manometer opening into said diffusion chamber above the level of the liquid, the other leg serving as pressure indicating tube and being positioned behind said chart, and temperature responsive means pivoting said cylinder and chart at an angle which is a function of the temperature of the surrounding gas.

2,651,202
THERMOMETER
Grover P. Burns, Fredericksburg, Va.
Application April 3, 1950, Serial No. 153,563
3 Claims. (Cl. 73—371)



1. A combination household and clinical thermometer for measuring household and human oral temperatures comprising a straight household portion 9 inches in length having a scale thereon ranging as high as 80 to 90° F. and terminating in a curved section integrally attached to which, at right angles to the household portion, is a straight clinical portion from 1 to 4 inches in length having a scale thereon ranging from about 85 to 95° F. up to about 105 to 108° F., said household portion, curved section and clinical portion having a continuous axial bore therethrough terminating in a bulb attached to the end of the household portion, said bore being of such size that liquid contained therein does not remain fixed upon a decrease in temperature, and said clinical portion being such a distance from the bulb that the indicated human oral temperature thereon may be read by the patient with the combination thermometer in his mouth.

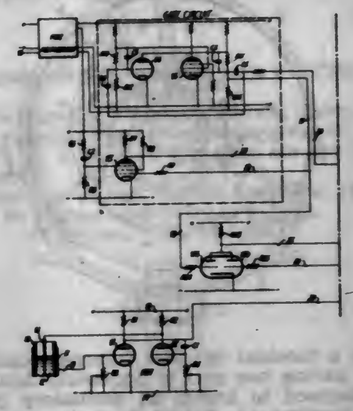
2,651,203
TEMPERATURE INDICATOR
Anthony H. Lamb, Hillside, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application October 3, 1950, Serial No. 188,149
5 Claims. (Cl. 73—374)



1. A temperature indicator comprising a first tube of transparent plastic, a glass thermometer disposed within the bore of the first tube, a second tube concentric with and spaced from the said first tube, end caps sealing the ends of both tubes, and energy-absorbing members disposed between each end of the thermometer and the adjacent end cap.

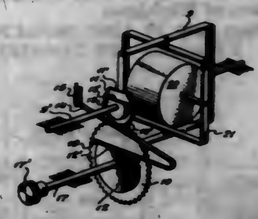
2,651,204
AUTOMATIC PRESSURE MEASURING AND INDICATING SYSTEM
Arthur H. Dickinson, Greenwich, Conn., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application March 9, 1950, Serial No. 148,543
1 Claim. (Cl. 73—398)

In an automatic pressure measuring and indicating system comprising a pressure responsive variable capacitor, said capacitor comprising a glass tube manometer which further comprises a cylindrical glass member having a metallic coating on the outer side thereof, a column of mercury contained within said member, said metallic coating and said column of mercury each forming a plate of said capacitor, the capacitance of said capacitor varying with a change in height of said mercury which varies linearly with pressure, a first multivibrator circuit, means connecting said capacitor in said circuit whereby the period of said circuit varies linearly with respect to said pressure, a first electronic counter coupled to said circuit, a second multivibrator circuit having a fixed frequency output, a second electronic counter, blocking means preventing the output of said second circuit from being applied to said second counter, said first counter being coupled to said blocking means, the output of



said first circuit being continuously applied to said first counter whereby said first counter cyclically and automatically unblocks and blocks said blocking means at equal counts, said second counter having entered therein the output from said second multivibrator whenever said blocking means becomes unblocked, said second counter manifesting said pressure by a digital representation, means automatically resetting said second counter after said manifesting, and means to prevent the unwanted resetting of said second counter during the count when said second circuit is unblocked.

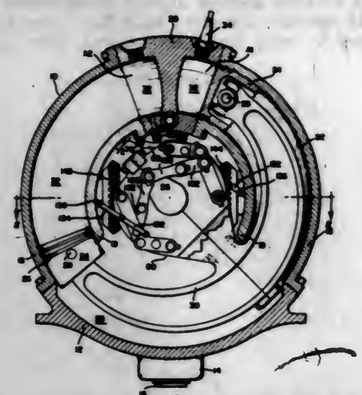
2,651,205
LOCKING AND RESETTING MEANS FOR GYROSCOPES
Stanley P. Clurman, Brooklyn, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application December 29, 1951, Serial No. 264,106
7 Claims. (Cl. 74—5.1)



1. Means for caging a gyro comprising a gimbal adapted to be rotated about an axis, a first gear fixed to said gimbal said gear having a cutout portion, a first cam connected in fixed relation to said gear said cam having a flat portion, a spring member adapted to contact said cam when under pressure, a second gear connected and adapted to engage said first gear, said second gear having a cutout portion, a sec-

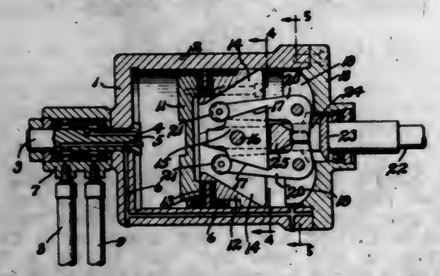
ond cam with a flat portion connected in fixed relation to siad gear, said second cam being adapted to apply pressure to said spring member.

2,651,206
MOTION CONVERTING MECHANISM
Henri J. Le Veille, Oak Harbor, Wash.
Application September 17, 1951, Serial No. 246,918
8 Claims. (Cl. 74—25)



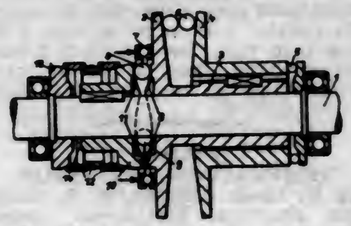
1. In a toroidal cylinder internal combustion engine having two pair of oppositely facing pistons disposed to travel an oscillatory path of travel forming an arc of a circle of approximately ninety degrees and each pair being connected by a rocker arm, means to convert the oscillating motion of said pistons to rotary motion, comprising: gear means connecting said rocker arms together in a manner so that they can only move in opposite directions; a drive shaft aligned with the center of said circle; a pair of cranks having their inner ends secured to said drive shaft; and locking and unlocking means locking each rocker arm to the outer end of its crank when they are moving in the same direction in a manner so as to prevent relative motion therebetween and unlocking each rocker arm from the outer end of its crank when they are moving in opposite directions so as to permit free relative movement therebetween.

2,651,207
DRAWBAR ACTUATING POWER AMPLIFYING APPARATUS
Holly M. Olson, Muskegon, Mich., assignor to Sealed Power Corporation, Muskegon, Mich., a corporation of Michigan
Application July 10, 1950, Serial No. 172,978
3 Claims. (Cl. 74—110)



1. Apparatus comprising, a fixed support, a draw bar slidably passing through the support, a yoke connected to the draw bar at an end thereof, a second support, means for mounting the second support for movements in opposite directions toward and away from the yoke, a wedging member having oppositely inclined sides diverging from each other toward the fixed support, said yoke being positioned between the wedging member and said fixed support, bell crank levers pivotally mounted on the fixed support at opposite inclined sides of the wedging member, engaging each at one end with the adjacent inclined side of said wedging member, and having arms at their opposite ends extending toward each other, said yoke having a head transverse to the length of the draw bar with which said arms engage, and means for mounting said wedging member on the movable second support for rocking movement about an axis perpendicular to the longitudinal axis of the draw bar.

2,651,208
PULLEY FOR VARIABLE SPEED TRANSMISSIONS
Erhardt Karig, Bad Homburg vor der Hohe, Germany, assignor to Patentverwertung W. Reimers, G. m. b. H., Bad Homburg vor der Hohe, Germany
Application September 29, 1950, Serial No. 187,646
In Switzerland October 6, 1949
5 Claims. (Cl. 74—230.17)



1. The combination with a drive shaft of a V-type pulley rotatably mounted upon said shaft, said pulley comprising a pair of oppositely-disposed conical discs adapted to receive between their inner conical faces a flexible transmission member, an abutment on the shaft, a sleeve axially slidable upon the shaft between the pulley and the abutment, means for driving the sleeve from the shaft, said sleeve and said pulley presenting cooperating cam surfaces for providing a driving connection between the sleeve and the pulley, resilient means urging the sleeve toward the pulley and frictional braking means for the sleeve for retarding motion of the sleeve in a direction opposite to the thrust of the resilient means, the said braking means comprising an annular member encircling the sleeve and mounted upon the shaft independently of the sleeve, and wedge surfaces between the sleeve and the annular member adapted to be urged into frictional contact responsive to the torque transmitted to the sleeve.

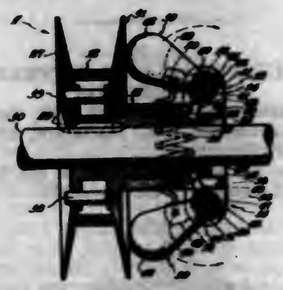
2,651,209
ADJUSTABLE DIAMETER SHEAVE
William A. Williams, Philadelphia, Pa., assignor to The American Pulley Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 16, 1950, Serial No. 195,926
7 Claims. (Cl. 74—230.17)

1. In an adjustable diameter sheave, an exteriorly tapered split bushing; and interiorly tapered split hub positioned telescopically around said split bushing; said bushing and hub each having a flange formed on the same corresponding ends thereof; a clamping means operatively connected to said flanges for drawing said flanges together; a pair of complementary sheave flanges mounted on said hub with capacity for axial



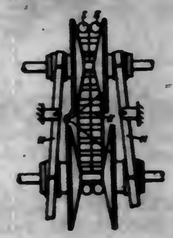
movement; and an adjustment means mounted on one of said flanges formed on said split bushing and on said split hub and operatively connected to said sheave flanges for moving said sheave flanges axially.

2,651,210
CENTRIFUGALLY CONTROLLED VARIABLE SPEED V-BELT POWER TRANSMISSION
Adna R. Clark, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application May 26, 1951, Serial No. 228,396
2 Claims. (Cl. 74—230.17)



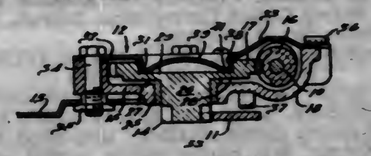
1. In a device of the character described, a V-shaped pulley comprising: a fixed cone-shaped disc mounted on a shaft and constrained against relative axial movement and having an extended hub provided with a pair of outwardly opening recesses on the periphery and proximate the end thereof; a slidable cone-shaped disc having an extended hub portion provided with a pair of slotted openings proximate one end thereof that extend axially a greater distance than said recesses; said slidable disc hub being mounted for slidable telescoping axial movement on said fixed hub so that said slidable disc cooperates with said fixed disc to present a V-belt track; axially extending pins secured to said slidable disc and slidably mounted through holes provided through said fixed disc to preclude relative rotational movement of the discs; the telescoping hubs of said discs being further arranged so that each recess of the fixed hub is radially aligned with at least a portion of a slotted opening in the slidable hub portion of the slidable disc throughout the full axial movement of said slidable disc; centrifugal governing means for varying the distance between said discs including a pair of bell-crank members pivotally mounted on said slidable disc hub member on respective transverse axes and positioned so as to be diametrically oppositely disposed on said slidable disc hub member, and having one arm of each of said bell-cranks arranged to pass through a slotted opening in said slidable hub with the end thereof received in a recess in said fixed hub to vary the distance between said discs as the speed of the pulley is varied; each of the slotted openings in said slidable hub portion being dimensioned so that the radially extending end walls thereof provide stop means against which an arm of the bell-crank abuts to limit axial travel of said slidable disc; and a pair of parallel springs disposed one each on diametrically opposed sides of the periphery of said slidable hub portion and connected directly between said symmetrically disposed bell-crank members for opposing the rotation of said members about their respective transverse axes.

2,651,211
TRANSMISSION CHAIN FOR V-TYPE PULLEYS
Erhardt Karig, Bad Homburg vor der Hohe, Germany, assignor to Patentverwertung W. Reimers, G. m. b. H., Bad Homburg vor der Hohe, Germany
Application September 29, 1950, Serial No. 187,647
In Switzerland October 6, 1949
10 Claims. (Cl. 74—236)



1. In a transmission chain adapted for use with V-type pulleys, the combination comprising a series of links connected in articulated relation, a plurality of pressure rings encircling the links at spaced distances lengthwise of the chain and free to rotate upon said links about axes substantially parallel to the length of the chain and means for preventing displacement of said rings in a direction lengthwise of the chain.

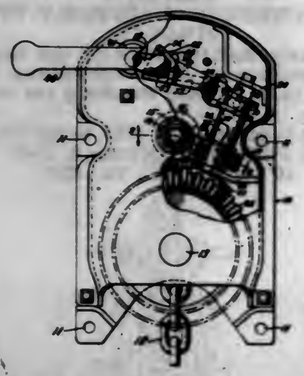
2,651,212
POWER TRANSMISSION MECHANISM FOR WINDOW REGULATORS
Arthur Mackmann, Chicago, Ill., assignor to Hupp Corporation, Cleveland, Ohio, a corporation of Virginia
Application October 11, 1950, Serial No. 189,633
13 Claims. (Cl. 74—425)



1. In a power transmission system for a window regulator or the like, a worm adapted to be connected to a rotary driving motor, a worm gear driven by said worm, the helix angle of said worm being approximately equal to the friction angle between the two materials of said worm and worm gear, the efficiency of said worm and worm gear being of such controlled magnitude as to be relatively close to the margin of non-reversibility at rest when a rotary force is applied to the worm gear greater than the normal force from the connected load, a pinion rotatable with said worm gear, and a driven gear meshing with said pinion and adapted to be connected to the

operating linkage of a window regulator or the like, the teeth on said pinion and driven gear being of the long-and-short addenda type, whereby reversibility of operation of the entire gear train from a state of rest is substantially prevented when a force from a foreign source is applied directly to the window.

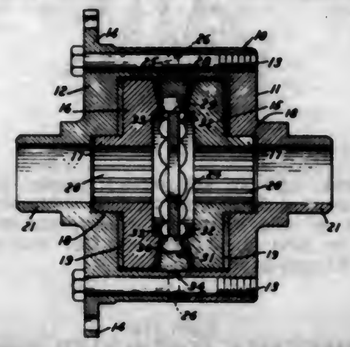
2,651,213
GEARED HAND BRAKE
Jack Wilson, Chicago, Ill., assignor to Universal Railway Devices Co., a corporation of Delaware
Application February 25, 1950, Serial No. 146,321
5 Claims. (Cl. 74—505)



1. In a hand brake for a railway car, a casing having relatively narrow side walls and relatively broad front and rear walls forming a shallow housing for mounting vertically on the exterior of a car wall, a drum shaft and a hand wheel shaft mounted parallel to each other within said shallow housing and journaled between said front and rear walls, a worm on the hand wheel shaft, a bevel gear on the drum shaft, a pinion shaft journaled within the housing and extending radially of said drum shaft adjacent to said worm, and a worm gear and bevel pinion on the pinion shaft engaging, respectively, with the worm and drum shaft gear, the lower portion of the housing directly beneath the drum shaft being open to receive a chain or the like adapted to be wound on the drum shaft as the brake is operated.

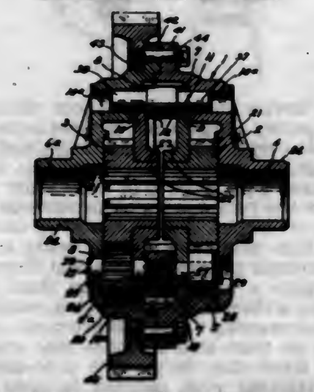
2,651,214
GEARLESS DIFFERENTIAL
Ralph R. Randall, Freeport, Ill., assignor to Detroit Safety Clutch Corporation, Detroit, Mich., a corporation of Michigan
Application July 14, 1950, Serial No. 173,756
14 Claims. (Cl. 74—650)

1. A divided power flow transmission comprising a housing, a pair of spaced apart axially aligned clutch plates rotatably supported within said housing, said clutch plates having on the opposing faces thereof at least two radially spaced annular races comprising a plurality of circumferentially spaced corrugations, a carrier plate positioned between the opposing faces of said clutch plates and coaxial therewith, and at least two annular series of frusto-conical rollers on said carrier plate movable in a direction transversely of the plane of said carrier plate, each of said series of rollers being arranged to roll between a set of corresponding races on said clutch plates, said clutch plates being spaced apart only sufficient to permit the rollers to roll between the trough of the corrugation on one race and the crest of corrugation on the opposing race, said corrugations being formed with frusto-conical surfaces at the trough and crest portions thereof, the surfaces of said crests and troughs and said rollers being generated by a line passing through the axial center of said carrier plate whereby said rollers maintain rolling line contact with



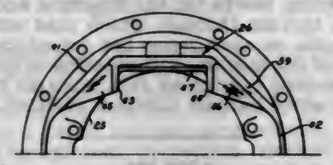
said crests and troughs at all times, said carrier plate being keyed to rotate with said housing, the faces of said clutch plates opposite said races being fashioned to exert pressure against the end walls of said housing and thereby prevent said clutch plates from freely rotating in said housing under the influence of said rollers.

2,651,215
NONTORQUE-EQUALIZING DIFFERENTIAL TRANSMISSION
Otto R. Schoenrock, Oak Park, Ill., assignor to Dualec Engineering Co., Rockford, Ill., a corporation of Illinois
Application March 2, 1951, Serial No. 213,788
2 Claims. (Cl. 74—711)



1. A non-torque-equalizing transmission comprising a firmly united rotatable combined gear carrier and housing, a pair of gears rotatably mounted in said housing and housed thereby and coaxial therewith, and a non-torque-equalizing transmission between said gears mounted in said housing and housed thereby, said housing comprising two cup-shaped members mounted face to face to form an outer housing, each cup-shaped member having a central opening for an element rotatable with one of said pair of gears, said gear carrier comprising a pair of bearing and drive members firmly united with said cup-shaped housing members, respectively, and having bearing means for said pair of gears, respectively, each cup-shaped member having annularly located face means for engagement with annularly located face means on a drive member, said pair of cup-shaped members and pair of drive members having annularly located openings in alignment with each other and having positioning pins extending into said aligned openings, said pins having shoulder portions lying between said drive members for engagement therewith, said non-torque-equalizing transmission comprising a plurality of sets of planet gears, each set comprising a double gear element, one gear of one double gear element meshing with one of said coaxial gears and the other meshing with one of the gears of the other double gear element, the other gear of the other double gear element meshing with the other coaxial gear, said cup-shaped members and drive members having aligned bearings therein in which said planet gears are mounted.

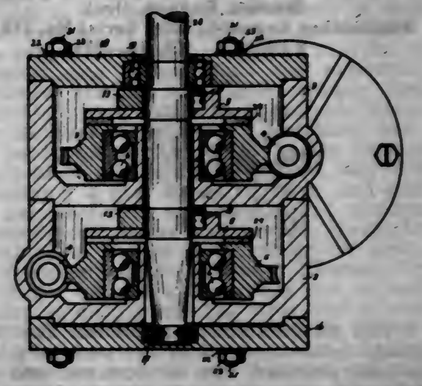
2,651,216
DIFFERENTIAL MOUNTING AND CARRIER
Herbert W. Alden, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio
Application February 28, 1949, Serial No. 78,690
4 Claims. (Cl. 74—713)



1. In a vehicle drive axle, a differential carrier member having an axle attachment portion, spaced parallel integral legs projecting from said portion, said legs being formed with aligned bores for journalling a differential casing, and reenforcing means on the inner side of each of said integral legs comprising substantially triangular side webs each having its base merged with said axle attachment portion over a large peripheral sector and decreasingly tapered toward the bottom of the associated bore, parallel integral substantially triangular webs projecting longitudinally from each leg on opposite sides of the associated bore and decreasingly tapered from said axle attachment portion to the lower end of said leg, and outwardly extending substantially triangular transverse webs on each leg, each having sides integral with the associated parallel and side webs respectively.

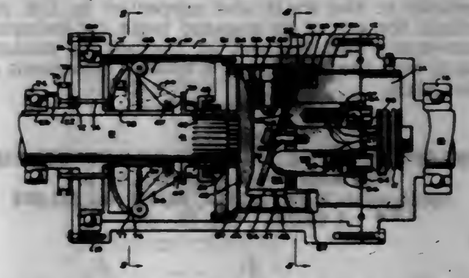
2,651,217
PLURAL WORM DRIVE
Marius Leonard van Overeem, Hilversum, Netherlands
Application May 17, 1951, Serial No. 226,862
In the Netherlands May 19, 1950
3 Claims. (Cl. 74—724)

1. A synchro-motor and worm-transmission driving mechanism for the turntable of a phonograph comprising a plurality of separate driving units each corresponding to a different driving speed, and a driving shaft provided with a ballbearing therefor, each driving unit consisting of a synchro-motor, a worm-transmission, a free-wheel coupling and an elastic coupling between said worm-transmission and said free-wheel coupling, said worm-transmission comprising a worm-wheel, a cylindrical housing about the driving unit provided with a bottom plate, said housing forming a flat unit in which the free-wheel coupling is arranged, said worm-wheel being supported on a ballbearing and centrally mounted on said cylindrical housing, each of said driving units together with their respective



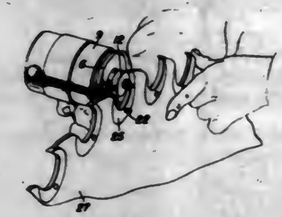
couplings being rotatably engaged against the driving shaft to fit against each other, and a closing shield encasing the ends of the plurality of driving units.

2,651,218
AUTOMATIC TRANSMISSION
Thomas L. Morris, Canoga Park, Calif., assignor of one-half to Floyd M. Bees, North Hollywood, Calif.
Application February 12, 1952, Serial No. 271,150
6 Claims. (Cl. 74—752)



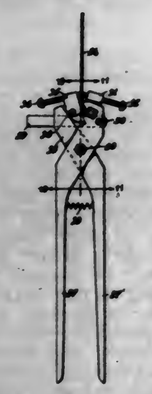
1. In a power transmission: first and second body members supported for rotation on a common axis, there being means to connect one of them to a power source and the other of them to a member to be driven; a plurality of hydraulic reaction members supported by the first of said members, said reaction members having engageable portions disposed around said axis; a wobble plate disposed in confronting relation to said engageable portions of said reaction members so that when said plate is caused to wobble, said reaction members will be caused to reciprocate to an extent depending on the angle of tilt of said plate; and means for imparting wobble to said plate comprising a planetary gear mechanism in said axis including drive and driven gears one of which is connected to said second body member so as to be rotated thereby, and a planetary gear rolling between said drive and driven gears, an eccentric member connected to said planetary gear so as to be moved thereby through a circular path in engagement with said wobble plate eccentrically of said axis, and means to move said gear mechanism bodily along said axis so that said eccentric member will be shifted toward and away from said wobble plate and vary the tilt thereof as it is caused to wobble.

2,651,219
SAW SHARPENER
Ralph S. Tower, Cottage Grove, and Fred M. Burton, Eugene, Oreg.
Application August 8, 1950, Serial No. 178,292
2 Claims. (Cl. 76—37)



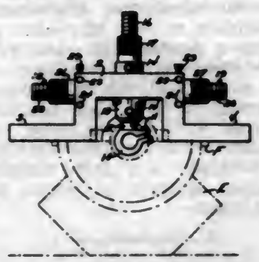
1. The combination of a circular saw having arcuate teeth recessed in the periphery of the saw and provided with an opening, and a saw sharpener comprising, a mounting plate, a plate supporting pin projecting laterally at one surface of the plate and adapted to enter the opening in one of the teeth to rockably support the plate in confronting relation against one side of the saw, said plate being manually rocked on the saw and said pin being manually held in said opening for quick interchangeable insertion in openings of successive teeth, said plate also having an opening adjacent one end, a motor supported on the outer surface of the plate and having a shaft rotatably positioned in said last named opening to project the shaft beyond the confronting surface of the plate, and a sharpening wheel secured to the shaft and supported by the pin within the arc of its engaged tooth for swinging movement into and out of sharpening engagement with the tooth upon a rocking movement of the plate.

2,651,220
MEANS FOR THE SETTING OF SAW TEETH
Nils Rosenlund, Brooklyn, N. Y.
Application May 31, 1952, Serial No. 291,033
1 Claim. (Cl. 76—64)



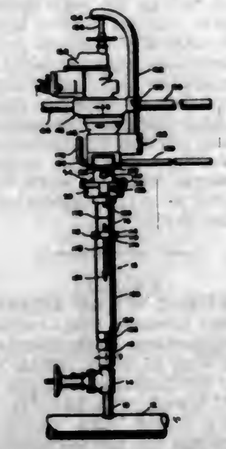
A saw set comprising a pair of handles, a pivot securing the latter together, a guide pivoted to one of said handles and adapted to support a saw, an extension at the upper end of said handle, and a set-adjusting screw mounted in said extension, a head formed at the upper end of the other handle, a dog pivotally secured to said head, and a set-adjusting screw mounted in said dog.

2,651,221
MANUALLY CENTERED LINE BORING MACHINE
Edward A. Foster, Berger, Tex.
Application November 16, 1948, Serial No. 60,315
1 Claim. (Cl. 77—2)



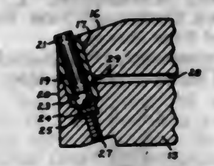
A portable cross bridge for supporting an adjustable tool comprising two laterally spaced arched brackets, a pair of oppositely extending arms on each bracket, a pair of screw bars mounted between the bracket in opposed relation to each other, a bushing threaded to the inner ends of the screw bars for supporting a pilot post, spacing blocks on the brackets and rigidly fastened thereto through which said screw bars pass, means on each screw bar for adjusting the position of the bushing with relation to the brackets and means carried by said brackets for holding said screw bars in adjusted position.

2,651,222
DRILLING MACHINE
Frank H. Mueller and John J. Smith, Decatur, Ill., assignors to Mueller Co., Decatur, Ill., a corporation of Illinois
Application May 17, 1951, Serial No. 226,766
22 Claims. (Cl. 77—37)



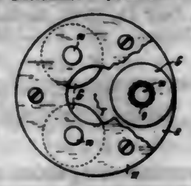
1. In a drilling machine, the combination comprising: a hollow tubular body adapted to be fixedly mounted during drilling operations; a boring bar mounted for axial and rotary movement within said body, said bar having one end thereof adapted for connection to a drilling tool and the other end thereof projecting out of said body for connection to a driving motor; rotatable tool feeding means operatively connecting said bar and said body for axial movement of said bar by rotation of said means; gear carrying means mounted for rotation about the axis of said bar; gear means carried in part by said gear carrying means and operatively connecting said bar to said tool feeding means for reductively driving the latter from the former and for effecting accelerated tool-advancing rotation of said tool feeding means by rotation of said gear carrying means in the direction of drilling rotation of said bar; and means for mounting a bar-driving motor on said gear carrying means with the motor housing in fixed relation thereto, said gear carrying means being adapted to be yieldably restrained against rotation during operation of the motor to drive said boring bar.

2,651,223
APPARATUS FOR CUTTING METALS
Robert S. Hahn, Northboro, Mass., assignor to The Heald Machine Company, Worcester, Mass., a corporation of Massachusetts
Application January 13, 1950, Serial No. 138,232
3 Claims. (Cl. 77—58)



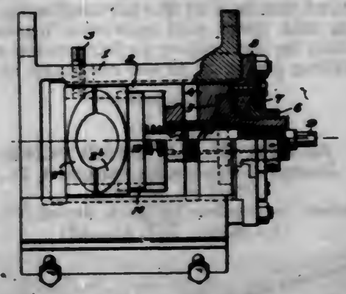
1. An apparatus for cutting metals comprising a cylindrical tool formed of cemented tungsten carbide having a plane end surface perpendicular to the axis of the cylinder, the other end of the tool being a plane surface perpendicular to the axis of the cylinder to permit reversal of the cutter and to provide a thrust bearing surface, bearing means to support the tool for free rotation about its axis and including a cemented tungsten carbide bushing, the bearing means further including a rolling anti-friction element contacting the said other end to receive thrust, the tool being rotated by the action of the chip thereon, a spring clip pressing resiliently against the first end to hold the tool in place against the anti-friction element, and a threaded member coaxial with said tool acting through the anti-friction element to adjust the tool axially.

2,651,224
APPARATUS FOR THE PRODUCTION OF SCREW THREADS BY MEANS OF PRESSING ROLLERS
Ferenc Erdélyi, Felsoged, Hungary, assignor to Wilhelm Fette Praezisionswerkzeug-Fabrik, Hamburg-Altona, Germany
Application December 19, 1947, Serial No. 792,666
In Hungary December 22, 1946
2 Claims. (Cl. 80—6)



1. A device for cutting screw threads by means of pressing rollers comprising the combination of a first part including a plurality of rollers supported at both ends in parallel discs by roller shafts having eccentrically disposed portions, and a second part including a hollow shaft supporting adjacent one end thereof an intermediate member operatively engaging cooperating members on said roller shafts and adapted in response to rotation of said first part to rotate said roller shafts and displace said rollers radially, an operating sleeve disposed around said hollow shaft and movable axially thereon by the work blank to permit rotary movement of said first part relative to said intermediate member, a spring supported against one end of said sleeve and against said hollow shaft and extending therebetween and an adjustable annular disc associated with said hollow shaft and said intermediate member to adjust the operative position of said rollers with respect to the axis of said work blank and said hollow shaft, said first part including a first detent member, and said second part including a second detent member supported by said sleeve and movable therewith and adapted to engage said first detent member and an adjustable abutment member for rolled blanks secured to the other end of said sleeve and extending into the other end of said hollow shaft and being axially movable by said blanks to disengage said detents, and a coupling spring extending between said first part and said second part adapted to rotate said first part relative to said second part upon disengagement of said detents, thereby causing said radial movement of said rollers.

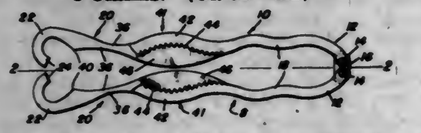
2,651,225
DEVICE FOR ADJUSTING AND OPERATING GUIDES IN THE PROCEDURE OF ROLLING METALS
Per E. Svensson, Hagfors, Satra Strand, Sweden
Application December 2, 1949, Serial No. 130,634
In Sweden January 11, 1946
4 Claims. (Cl. 80—51)



1. A rolling mill guide including means defining a guide box through which stock to be rolled is guided, a first slide mounted within said box for movement with respect thereto in a direction transversely of the path of movement of the stock, a first guide member fixed to said slide for movement therewith, a second guide member carried by said slide for cooperation with said first guide member and movably mounted relative to said slide, a second slide member incorporated with said guide box and movable relative thereto, a sleeve rotatably journalled in said second slide member, means coupling said first slide member to said sleeve for movement axially thereof in a direction opposite to and simultaneously with axial movement of said second guide member when the latter is moved, said second slide member including an internally threaded bushing member concentric of said sleeve, a screw member having external threads thereon extending within said guide box in threaded engagement with said bushing for cooperation with said second guide member to move the same, means rotatably coupling said sleeve to said screw so that rotation and axial movement of said screw there-

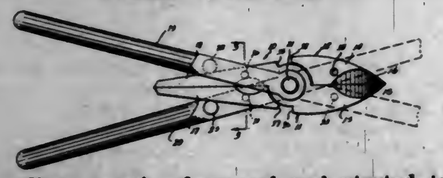
by imparts rotation and reverse axial movement to said first slide, said bushing being movable laterally of the guide box to impart movement to the second slide, an apertured end plate closing said guide box, an internally threaded nut rotatably mounted on said end plate, means restraining said nut from axial movement, and said bushing member having external threads thereon engaging the threads on said nut whereby rotation of the nut axially moves said bushing member and thereby said second slide, said sleeve and said first slide.

2,651,226
DUAL LEVER PRY TYPE LID LIFTER
Arthur E. Hopmann, Maplewood, Mo.
Application September 24, 1951, Serial No. 247,942
3 Claims. (Cl. 81—3.1)



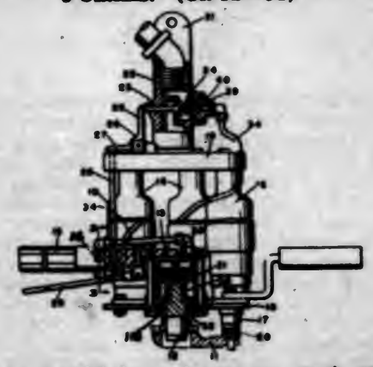
1. A lid lifting and removing implement comprising a pair of opposed duplicate levers hingedly connected together at corresponding ends and having free end portions with return bends, said return bends defining hooks, said hooks having bill portions and said bill portions being adapted to pilot themselves into an existing space between a friction held lid and a shoulder on a jar whereby they may then serve as both fulcruming and lifting members, the portions of the respective levers adjacent said hooks having longitudinally curved edges conformable with adjacent portions of the neck of the jar and being adapted to fit in said space and providing opposed jaws which may be used either as fulcruming members or lid lifting members as the case may be.

2,651,227
MULTIPLE-JAW HAND PLIER
George Lumpkin Kennington, Jr., Port St. Joe, Fla.
Application November 14, 1950, Serial No. 195,592
1 Claim. (Cl. 81—47)



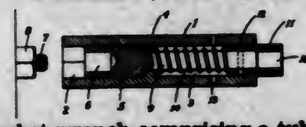
In pliers, a pair of crossed and pivoted jaw members, said jaw members having differing jaws on their opposite ends, the jaws on the same ends of the jaw members being arranged to cooperate when the jaw members are pivoted relative to each other in directions to move the jaws at the same ends of the jaw members together, a pair of handles overlying the outer sides of the jaw members, said handles having inner ends located at points intermediate the ends of said jaw members, a single pivot pin traversing intermediate points of said jaw members and the said inner ends of the handles, said jaw members being rotatable on the pivot pin relative to the handles for reversing the jaw members relative to the handles, means acting between the jaw members limiting opening pivotal movement of the jaw members relative to each other, and abutment lugs projecting from the facing sides of said handles, said abutment lugs being spaced along the handles from the said inner ends of the handles to abut portions of the outer edges of related jaws located intermediate the ends of the related jaws as the handles are moved toward each other from open positions and relative to the jaw members so as to pivot the jaw members relative to each other in a direction to close the other jaws, and spring biased detent means having cooperating components on the outer sides of said jaws intermediate the ends of said jaws and on the facing sides of the handles at points between the inner ends of the handles and said abutment lugs for releasably connecting the handles to the jaw members for pivoting the jaw members relative to each other in the opposite direction so as to open said other jaws.

2,651,228
DISENGAGING MECHANISM FOR MULTIPLE NUT RUNNERS
Hugh B. Taylor, Waverly, N. Y., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application November 1, 1951, Serial No. 254,324
6 Claims. (Cl. 81—54)



1. In a multiple nut runner, nut runners adapted to rotate members of a work piece, a frame for securing the nut runners in position relative to each other, a power element mounted on the frame, a plunger positioned to engage the work piece and connected to be actuated by the power element to disengage the runners from the members rotated thereby, and means for controlling the flow of power to actuate the power element.

2,651,229
COMBINED SOCKET WRENCH AND NUT EJECTOR
Bernhart Joseph Lenz, Merced, Calif., assignor of one-half to Orville W. Shelton, Carmel, Calif.
Application July 31, 1950, Serial No. 176,827
2 Claims. (Cl. 81—124.1)



1. A socket wrench comprising a tubular sleeve having a non-circular socket open to the front end thereof, a plunger slidable in matching relation in the socket, the forward end of the plunger normally being short of the corresponding end of the socket, a connector at the rear of the sleeve for a socket wrench handle, said connector being slidable but non-turnable in the sleeve and projecting from the rear end thereof, a stem of reduced size extending between adjacent ends of the plunger and connector, a stop in the sleeve against which the rear end of the plunger normally seats, and a helical compression spring about the stem between the stop and connector yieldably maintaining the plunger against said stop.

2,651,230
SOCKET REDUCING MEANS FOR BOX-TYPE WRENCHES
William Waterval, Brooklyn, N. Y.
Application December 28, 1951, Serial No. 262,763
2 Claims. (Cl. 81—185)



1. A box wrench, a socket wrench head formed with a reduced portion and being mounted in said box wrench, said head having a groove in the outer surface of said reduced portion, the box wrench being formed with a handle having a tubular opening therein terminating at one end in a small orifice abutting the annular opening in the head of said box wrench, a ball terminating at one end in a shank, and actuating the ball into engagement with said groove through said orifice, a spring arranged in said tubular opening, a pin integral with a screw nut and abutting said spring, said screw nut being inserted through the outer end of the handle of the box wrench, whereby to keep said spring under tension.

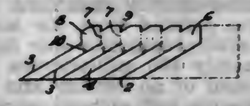
2,651,231
CONNECTED FASTENER BLANK STRIP
Joseph C. Lang, Pittsburgh, Pa., assignor to Beclf Corporation, Pittsburgh, Pa., a corporation of Delaware
Application June 20, 1949, Serial No. 100,214
3 Claims. (Cl. 85—17)



1. A connected series of fastener blanks in the form of a metal ribbon, each blank having an expanded head portion formed by slitting the metal lengthwise of the strip and stretching it crosswise of the strip into the form of a loop, diametrically opposed portions of adjacent heads being connected together along the longitudinal axis of the strip by a narrow web of metal adapted to be severed to separate the blanks, a leg connected to each side of the loop on a diameter extending transversely of the strip, the legs extending lengthwise of the strip and constituting longitudinal edges of the ribbon, the leg-forming elements of each blank having pointed ends separated from the adjoining blank.

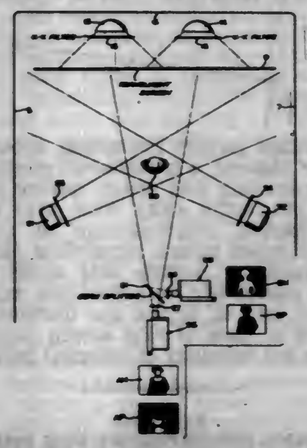
2,651,232
FASTENER STRIP
Joseph C. Lang, Pittsburgh, Pa., assignor to Beclf Corporation, Pittsburgh, Pa., a corporation of Delaware
Application January 14, 1947, Serial No. 721,911
10 Claims. (Cl. 85—17)

1. A strip of connected fastener blanks comprising a ribbon of metal that is slit obliquely from one edge toward the other at regularly spaced intervals to form a succession of leg elements, there being a continuous band of metal at which the slits terminate, the strip being adapted to be severed along lines that intersect



the slits at their inner ends, the continuous band portion of the strip having regularly-spaced vacant spaces therein, there being one such vacant space for each blank, whereby the strip can be accurately moved into a forming, cutting and driving machine.

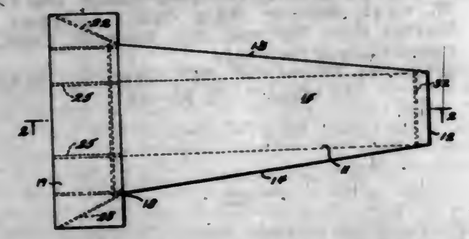
2,651,233
PROCESS OF COMPOSITE PHOTOGRAPHY
Albert W. Tondreau, Westwood Village, and Fred W. Gage, Beverly Hills, Calif., assignors to Warner Bros. Pictures, Inc., Burbank, Calif., a corporation of Delaware
Application February 6, 1950, Serial No. 142,616
1 Claim. (Cl. 88—16)



A composite photographing process for obtaining two images of a subject, the one having a background of a greater density and the other a background of lesser density, which comprises positioning the subject in front of a translucent screen; placing illuminating means rich in ultraviolet light back of said screen; illuminating said screen with light from said means through a light filter which transmits only light rays having wavelengths below approximately 400 millimicrons, whereby to eliminate the visible spectrum from said illuminating means through said screen; positioning a light source in front of said screen and illuminating the said subject from said source through a filter which transmits light rays having wavelengths above approximately 400 millimicrons, whereby the said subject is illuminated with light containing the full visible spectrum; providing two light sensitive photographic areas with means for focusing an image on said areas in front of said subject; providing a light filter in front of each of said areas, one of said filters transmitting light rays below approximately 400 millimicrons and the other of said filters transmitting light rays above approximately 400 millimicrons; providing a light dividing reflector-transmitter between the two filters last mentioned to divide the light from said screen and subject reaching said areas between

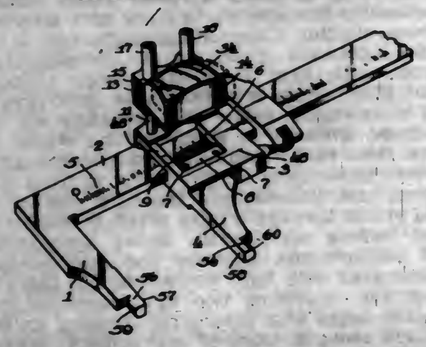
them, whereby when said light sensitive areas are developed the positive printed from the area screened by the filter which transmits only light rays above approximately 400 millimicrons will be opaque and the subject in said positive will have sharp color density variations, and whereby the positive printed from the area screened by the filter which transmits only light rays below approximately 400 millimicrons will have a clear background of no density and the subject will appear opaque and without color variations, thus providing a mask of the said subject.

2,651,234
OUTDOOR PICTURE PROJECTION SCREEN APPARATUS
Philip J. Corso, California, and Pasquale A. Romano, Philadelphia, Pa.
Application November 24, 1948, Serial No. 61,854
2 Claims. (Cl. 88—24)



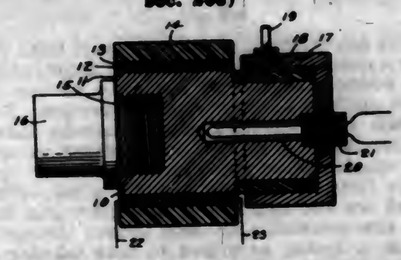
1. In motion picture projection apparatus for an outdoor theater, a translucent screen, a light shield surrounding said screen having side walls diverging outwardly away from said screen, a track extending longitudinally of said light shield, and roller means supporting said screen on said track for moving said screen longitudinally of said shield to adjust the exposure of said screen and to adjust the horizontal angle of the field of view of said screen according to changes in the intensity of external light.

2,651,235
MAGNIFYING INSTRUMENT FOR PRECISION MEASURING DEVICES
Stephen S. Borrows, Minneapolis, Minn.
Application September 13, 1949, Serial No. 115,220
10 Claims. (Cl. 88—39)



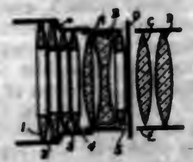
1. A magnifying instrument for precision tools, comprising, a base member having resilient gripping means to be removably slid edgewise over a precision tool, an upstanding post fixed to said base member, a focusing head having an opening within which said post is positioned, said focusing head being slidable longitudinally along the post, a one-piece post head removably fixed to the upper end of the post and having an extended cylindrical side wall of a diameter slightly less than the diameter of the opening in the focusing head, said side wall having a circumferential groove of constant size, and an expansible resilient metal ring mounted in said groove and normally urged radially outwardly to frictionally bear against substantially all circumferential sides of the wall of said opening in the focusing head during longitudinal movement of the focusing head on the post while the focusing head and post are held against rotation with relation to each other.

2,651,236
MICROTOME SPECIMEN HOLDER
Herbert Kahler, Kensington, Md.
Application August 8, 1951, Serial No. 240,963
5 Claims. (Cl. 88—40)
(Granted under Title 35, U. S. Code (1952), sec. 266)



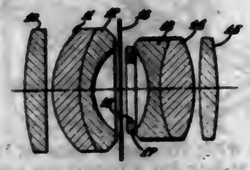
1. A microtome specimen holder comprising a metallic block, a sleeve of insulating material around a portion of said block, a coil of resistance wire surrounding said sleeve, a socket for mounting a specimen in one end of said block, a collar of insulating material at the other end of said block to insulate said block from the supporting jaws of the microtome and means for passing a current through said coil of resistance wire.

2,651,237
BALANCED FOCUS LENS SYSTEM
Stephen E. Garutso, San Fernando, Calif., assignor, by mesne assignments, to Balanscope, Inc., a corporation of California
Application August 1, 1946, Serial No. 687,621
6 Claims. (Cl. 88—57)



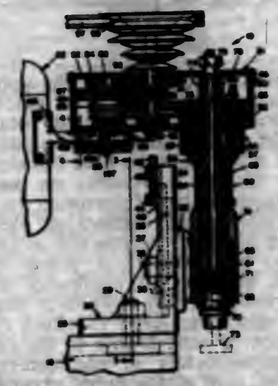
1. In combination with a conventional photographic objective of the type having a plurality of axially spaced elements grouped forwardly and rearwardly of a relatively large air space adjacent the optical center thereof, said objective having a power p, depth of field increasing means comprising a plurality of annular double convex lenses, each concentrically positioned in the light cone of said objective and forward of the rearmost element of said objective, said annular lenses each having an external diameter substantially equal to that of the light cone measured at the position of said annular lens therein, each of said annular lenses having an internal diameter not less than two-thirds of its external diameter, and the sum of the powers of said annular lenses being between p and $6.1p$.

2,651,238
DEEP FOCUS PHOTOGRAPHIC OBJECTIVE
Stephen E. Garutso, San Fernando, Calif., assignor, by mesne assignments, to Balanscope, Inc., a corporation of California
Application March 1, 1948, Serial No. 12,275
6 Claims. (Cl. 88—57)



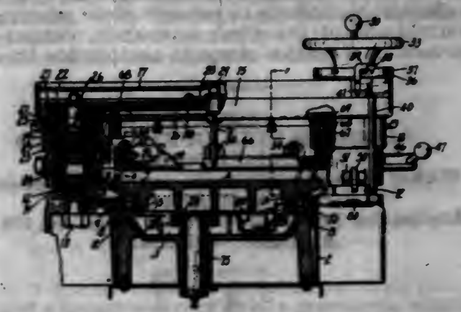
1. In combination with a conventional photographic objective corrected for spherical aberration, a corrective element comprising: an annular positive lens having an external diameter approximately equal to the aperture of said conventional objective, an area between 28% and 40% of the said aperture area, and a focal length equal to substantially 1.5 times the focal length of said conventional objective, said corrective element being coaxially positioned within said conventional objective adjacent the optical center theerof, whereby to correct vestigial spherical aberration in the marginal zone of said objective and to materially increase the depth of field thereof.

2,651,239
MILLING ATTACHMENT FOR LATHES
Charles Schlagel, Inglewood, Calif.
Application November 19, 1948, Serial No. 61,038
2 Claims. (Cl. 90—17)



1. In a milling attachment for a lathe having a cross feed, a mounting bracket adapted to be secured to the cross feed of the lathe, a milling cutter housing having a rotatable milling cutter spindle therein, a means for adjustably mounting said housing on said bracket, said means including interengaging elements on said housing and bracket providing a plurality of predetermined positions in which the housing and bracket may be positioned relative to each other and preventing relative rotation thereof when said housing and bracket are in a selected position, releasable securing means for holding said housing and bracket in a selected position, said releasable securing means including a vertically adjustable bar and an attachment means for releasably attaching said housing to said bar, and means for vertically moving and accurately positioning said adjustable bar.

2,651,240
MACHINE FOR SHAVING ELECTROTYPES, STEREOTYPES, AND THE LIKE
Donald E. Sutton, Kalamazoo, Mich., assignor to Hammond Machinery Builders, Inc., Kalamazoo, Mich.
Application April 7, 1950, Serial No. 154,760
16 Claims. (Cl. 90—25)



1. In a machine for shaving electrotype and stereotype plates and the like, having a bed member and a table reciprocable thereon, adjustable shaving structure mounted over said table and comprising, vertical internally threaded cylindrical posts rigidly mounted on said bed at opposite sides of the path of travel of the table and in offset relation longitudinally of the table relative to each other, a crosshead provided with integral depending cylindrical bearings sleeved upon said posts, ball bearing mounted adjusting screws on said crosshead coacting with the threads in said posts, one of said screws being provided with a handwheel, said screws being provided with sprocket wheels disposed within said crosshead, a sprocket chain connecting said sprocket wheels, clamp members mounted on said crosshead to coact with said posts and having a common actuating element, a blade mounted on said crosshead for vertical adjustment thereon and with its cutting edge in approximately a vertical plane through the centers of the posts, a spring biased work pressure roller mounted on said crosshead at the rear of and closely adjacent to the blade, a spring biased work hold-down roller mounted on said crosshead in advance of the blade, a vertically adjustable scoring cutter mounted on said crosshead and positioned in advance of said hold-down roller, said bed being provided with a central chip discharge opening which is uncovered at the end of the work stroke of the table, and driving means for said table.

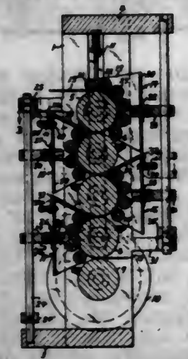
2,651,241
ANTIDEFLECTION ROLL, METHOD OF ASSEMBLY, AND USE
Lloyd Hornbostel, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application May 17, 1949, Serial No. 93,651
11 Claims. (Cl. 92—73)



1. A roll assembly comprising a generally cylindrical, hollow outer shell, a through shaft extending axially of said shell, cooperating means on said shell and said shaft for defining an interior

annular space adjacent each of the open end faces of said shell and of radially inwardly decreasing diameter, and means wedged within each of said spaces into engagement with said shell and said shaft, said means including nested concentric deformable metal sleeves and a resilient, rubber sleeve interposed therebetween, and said rubber sleeve being under preloaded compressive stress of sufficient magnitude to accommodate relative deformations of the shaft and shell without approaching a tension stress in any portion thereof.

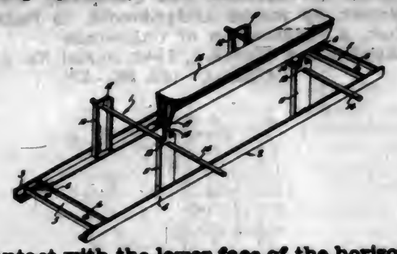
2,651,242
CALENDER ROLL GUIDE AND FEED MECHANISM
Walter W. Neely, Alton, Ill., assignor of one-half to Herbert W. McAfoos, Alton, Ill.
Application September 24, 1947, Serial No. 775,922
4 Claims. (Cl. 92—74)



1. In a calender rolling machine for paper stock having a plurality of rollers arranged in a row side by side providing a plurality of passes therebetween, a web guiding mechanism coacting with each of said calender rollers, the web guiding mechanism for adjacent rollers being disposed at opposite sides thereof, each web guiding mechanism including an elongated frame, a plurality of longitudinally extending guide rollers rotatably mounted in arcuate arrangement in said frame for engagement with the associated calender roller, the frame being supported for bodily movement laterally of the calender roller, means for urging the frame of the guide mechanism toward the calender roller for moving the guide rollers into engagement with the same, each web guiding mechanism excepting the one for the first of the series of calender rollers being provided with a longitudinally extending elongated plate member pivotally supported on the frame of said web guiding mechanism at one side of the same and having an edge portion engageable with the preceding calender roller, and a spring for yieldably urging said plate member into engagement with the calender roller.

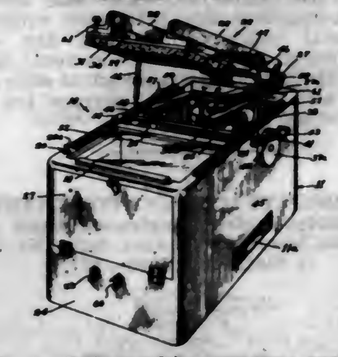
2,651,243
JOINT BAR DEVICE
Arthur Le Page Guille, Norfolk, Va.
Application March 24, 1951, Serial No. 217,390
3 Claims. (Cl. 94—17)

1. In a device of the character described, the combination of a base in the form of a longitudinal supporting member, spaced vertical support secured to said member and provided with lug portions at the terminals thereof and a removable V-bar of triangular cross section having a lower edge, inclined side walls, and an upper horizontal wall, there being spaced apertures along the lower edge thereof, said lug portions projecting upwardly through said apertures and



into contact with the lower face of the horizontal wall of said V-bar for supporting and positioning the same.

2,651,244
PHOTOPRINT EJECTOR
Duard Ferguson, Los Angeles, Calif.
Substituted for abandoned application Serial No. 107,907, August 1, 1949. This application December 19, 1951, Serial No. 262,263
5 Claims. (Cl. 95—73)



1. In a photographic exposure apparatus including a housing therefor, an ejector for removal of sensitized photographic paper from a negative, said ejector comprising a pair of spaced and parallel guide rails on said housing, a frame adapted to sliding movement on said rails, a pair of L-shaped fingers fulcrumed on said frame and comprising paper contacting elements and lugs, a strap hingedly connected to each of said lugs and to said frame, a power driven rotatable arm adapted to cyclically engage and slide said frame on said rails to a work position and spring means adapted to effect return sliding movement of said frame to its point of beginning intermediately of engagement by said rotatable arm, said straps being arranged to rock said lugs and raise said paper contacting elements in clearance of said sensitized paper in moving to a work position under pressure of said rotatable arm and being reversely moved into contact with said sensitized paper in being returned to their point of beginning by said spring whereby an exposed photographic paper is carried from a place of exposure to a repository.

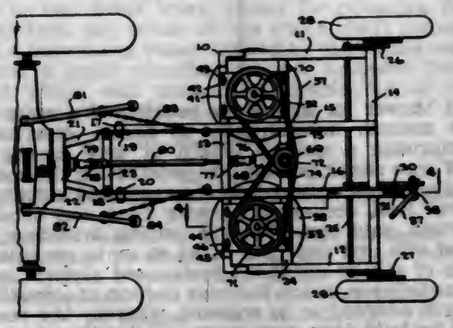
2,651,245
MEANS FOR RAPIDLY PROCESSING PHOTOGRAPHIC FILM
Albert W. Tendreau, Los Angeles, Calif., assignor to Warner Bros. Pictures, Inc., Burbank, Calif., a corporation of Delaware
Application October 6, 1949, Serial No. 119,824
1 Claim. (Cl. 95—89)

A film developing machine for obtaining rapid and uniform developing, fixing, washing, and drying of a film emulsion comprising spraying means for applying developer, fixer, and water in that order at a temperature of approximately 125 degrees F. and a pressure of approximately eight and one-half pounds, means for initially



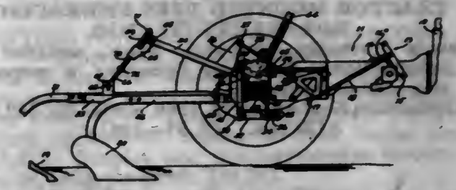
spraying said emulsion, and means for immediately immersing said film emulsion in developer for approximately one second prior to the action of said first mentioned developer spraying means, said first mentioned spraying means applying said developer for approximately nine seconds.

2,651,246
POWER-DRIVEN HARROW
Amandus Peters, Phesipney Ferbach, and Benjamin J. Strotman, Casa Grande, Ariz.; said Phesipney Ferbach now by change of name Babe Ferbach
Application March 20, 1951, Serial No. 216,576
2 Claims. (Cl. 97—43)



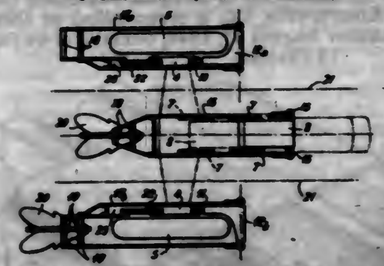
1. In a harrow, a generally horizontal frame having longitudinal side members and spaced cross members extending between and secured to the side members, said frame further comprising a pair of intermediate longitudinal members spaced from each other and from said longitudinal side members, said intermediate members having end portions extending longitudinally beyond one end of said frame, said end portions having means for connection to draft means of a tractor, horizontal plates mounted upon and extending longitudinally between adjacent ones of said cross members, at opposite sides of said pair of intermediate longitudinal members, vertical journal bearings on and extending through said plates, vertical shafts journalled through said bearings, said shafts having upper ends located above the plates and lower ends located below the plates, toothed vertical axis harrow rotors fixed on the lower ends of said shafts, pulleys fixed on the upper ends of said shafts, a gear assembly mounted on said frame between said pair of intermediate longitudinal members, said gear assembly comprising a horizontal shaft to which a power shaft of a tractor is adapted to be drivingly connected and a vertical shaft, a pair of vertically spaced pulleys on said vertical shaft of the gear assembly, and belts individually connecting the vertically spaced pulleys with the pulleys on the shafts of the harrow rotor shafts.

2,651,247
PLOW DRAFT DEVICE
Robert E. Hartsock, La Habra, and Richard W. Henss, South Gate, Calif., assignors to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Original application July 8, 1943, Serial No. 493,852, now Patent No. 2,482,751, dated September 27, 1949. Divided and this application September 26, 1949, Serial No. 117,925
2 Claims. (Cl. 97—46.05)



2. In a tractor having a longitudinal body portion and a transverse rear axle, a transverse draft member supported on said rear axle on the forward side thereof, for oscillating pivotal movement, a rearwardly extending arm on said draft member and extending rearwardly of said rear axle, a plow beam pivotally connected to said arm rearwardly of said rear axle and extending rearwardly therefrom, a plow on said plow beam, a depth adjusting lever mounted on the tractor and a connection therefrom to the pivotal connection between said plow beam and said rearwardly extending arm for oscillating said draft member in response to actuation of said lever, a yoke pivotally connected to the mid-portion of the tractor for fore-and-aft rocking movement, means connected with said yoke for rocking it at will, a lifting element pivotally connected to the tractor and extending rearwardly over the plow beam, a connection from the lifting element to the plow beam for lifting the latter upon rocking of the lifting element, and a connection from said yoke to said lifting element for rocking the latter in response to rocking of said yoke.

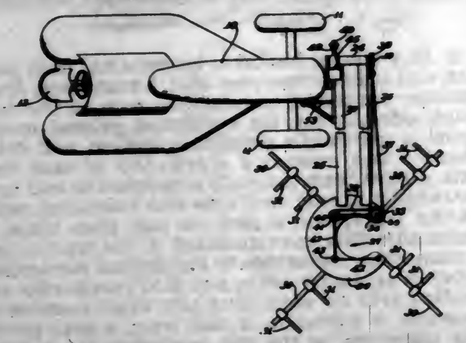
2,651,248
IMPLEMENT ATTACHING DEVICE FOR TRACTORS
Vincent P. M. Ballu, Epernay, France, assignor to Etablissements Edgar Brandt (Societe Anonyme), Paris, France, a company of France
Application February 23, 1949, Serial No. 77,868
In France March 1, 1948
3 Claims. (Cl. 97—47.44)



1. In combination with a tractor having two driving wheels, an implement attaching device comprising vertically displaceable support members located ahead of said wheels relatively to the direction of motion of said tractor; a pair of implement attaching means on each of said supports, said means lying on both sides of the corresponding wheel; a further vertically displaceable support member located centrally of

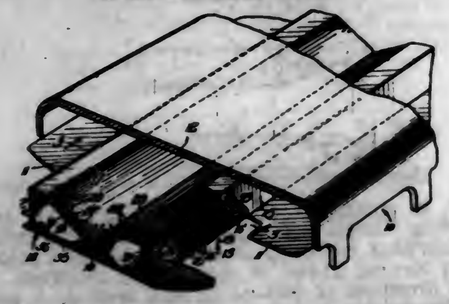
the tractor; a further pair of attaching means on said last-mentioned support member, said means lying on both sides of the longitudinal plane of symmetry of the tractor; and means for adjusting independently of each other the position of said supports, whereby the height of the respective pair of attaching means above the ground is adjusted.

2,651,249
TRACTOR MOUNTED TREE EMBRACING ROTARY CULTIVATOR
James Merkoski, Memphis, Tenn., assignor to International Harvester Company, a corporation of New Jersey
Application September 29, 1950, Serial No. 187,514
8 Claims. (Cl. 97—136)



1. A machine for cultivating trees comprising a tractive vehicle, a boom structure projecting from the vehicle and mounted thereon for generally vertical swinging movement about a longitudinal axis, a segmental supporting member at the laterally outer end of the boom having a central opening to receive therein a tree to be treated, cultivating tools carried at circumferentially spaced locations about said member and movable in a circular path about the center of said segmental member, and drive transmission means deriving power from the vehicle and operatively connected to said member for moving said tools in said circular path.

2,651,250
VENTILATING SYSTEM
John A. Marquardt, Elmhurst, Ill., assignor, by mesne assignments, to Burgess-Manning Company, Libertyville, Ill., a corporation of Illinois
Application August 17, 1948, Serial No. 44,742
19 Claims. (Cl. 98—40)



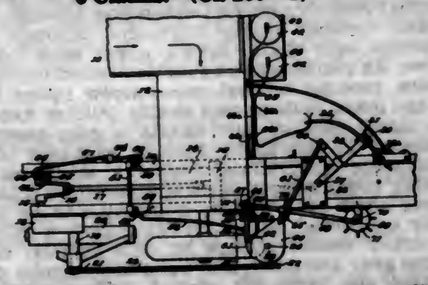
1. A ventilating structure comprising a pair of elongated air flow ducts, both of which are provided with perforated lower members, one of said ducts being housed within the other, the lower member of the internal duct being constituted by downwardly and inwardly convergent portions, and a perforated baffle disposed transversely of and in flow obstructing relation to the outermost duct, the cross-sectional area of said internal duct being relatively unobstructively exposed to longitudinal flow of air thereinto in the zone thereof adjacent said baffle.

2,651,251
SKEWER
John Clark Brown, Upper Montclair, N. J.
Application August 31, 1950, Serial No. 182,451
1 Claim. (Cl. 99—419)



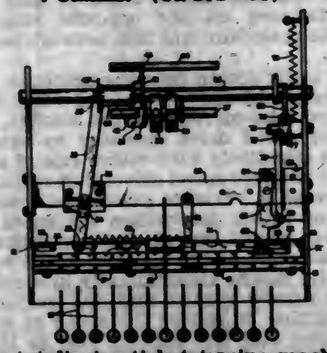
A skewer for aiding the cooking of a roast in the manner substantially as herein described, comprising a unitary length of wire having a stiff wire shank portion for penetrating the roast and conducting heat into the same and a conical spiral heat accumulating wire head and handle portion, said conical spiral portion including at least one and one half turns so as to provide a pair of axially displaced juxtaposed arcuate sections between which the edge portion of a cooking pan is adapted to be engaged, whereby the roast can be held from movement relative thereto and the heat of the pan can be transferred by metal-to-metal contact to the skewer, the terminal wide end of the conical spiral portion defining a substantially circular area against which the user's palm can be pressed when thrusting the skewer into the roast.

2,651,252
AUTOMATIC BINDER FOR HAY BALERS
William O. Pope, Greenfield, Ind.
Application November 21, 1950, Serial No. 196,741
6 Claims. (Cl. 100—4)



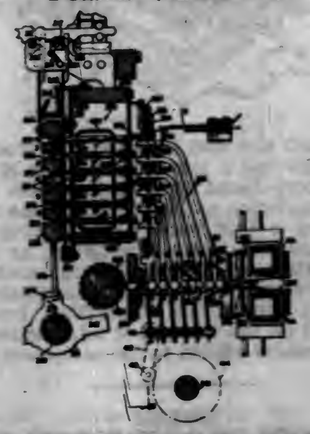
5. The combination with a horizontal baling machine having a baling chamber, a crank shaft, a plunger head, and a pitman connecting the head with the crank of said shaft; of a bale wrapping and securing means including arcuate strand carrying needles carried by the baler at one side of said chamber and mounted for oscillatory movement across said chamber, operating means for said needles mounted on the opposite side of said chamber, said needle mounting including a vertical shaft and an arm having one end fixed to and extending laterally from the shaft and having its other end pivotally supported, said arm having a branch arm extending laterally from a point between its ends, said operating means including a second vertical shaft having a crank arm extending revolubly therefrom and a link connecting said crank arm and said fixed arm, said crank arm having an arcuate flange extending concentric to said second vertical shaft and having opposed ends forming a gap, a ratchet consisting of a disk fixed on said second vertical shaft and provided with a peripheral flange fitting within the crank arm flange, said peripheral flange having its interior face provided with a continuous series of arcuate recesses, a bell crank pawl lever pivoted within the crank arm eccentric to the second vertical shaft, a roller on one end of the lever movable into and out of said recesses, the other arm of said bell crank lever extending through said gap, means controlled by the revolution of the baler crank shaft intermittently causing engagement of the pawl and ratchet, said last means including a latching device normally engaging the last mentioned arm of the bell crank lever, means for releasing the pawl from the action of the crank shaft including a bale sizing wheel carried by the baling machine, a latch releasing member actuated from said wheel, and manually operable means for releasing said latching device.

2,651,253
KEY SELECTOR MECHANISM IN PRINTING MACHINES
Arthur J. Johnston, Ruxton, Md., assignor to American Totalizator Company, Inc., Baltimore, Md., a corporation of Maryland
Application April 20, 1948, Serial No. 22,697
7 Claims. (Cl. 101—93)



1. In a totalizator ticket-issuing machine having printing mechanism comprising an indicia-bearing printing element movable through different extents to bring the respective indicia to printing position, a plurality of depressible keys corresponding to said indicia, a bar movable transversely of said keys, said bar having a plurality of shoulders and each of said keys having a portion movable into the path of a corresponding shoulder of said bar upon depression of said key, said shoulders being spaced progressively varying distances from the corresponding key portions, means normally preventing shifting of said bar, means responsive to depression of any of said keys for withdrawing said preventing means to an ineffective position, means responsive to said withdrawal of said preventing means for shifting said bar to bring a shoulder thereof into engagement with the corresponding portion of the key depressed, and means controlled by said bar for determining the extent of movement of said printing element.

2,651,254
PRINTING CONTROL MEANS FOR RECORD CONTROLLED MACHINES
Arnold B. Crowell, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Original application August 13, 1947, Serial No. 768,372. Divided and this application December 29, 1950, Serial No. 203,263
1 Claim. (Cl. 101—93)



A record controlled printing machine of the type comprising a line of printing hammers, a type bar mounted to reciprocate along the line of hammers, spring means to actuate the hammers, hammer pawls to retain the hammers in cocked positions, hook members selectively to release the hammer pawls, spring means urging said hook members toward engagement with their respective pawls, a group of selectively settable pins associated with each hook member, a permutation bar connected to said type bar so as to reciprocate therewith, said permutation bar having notched rails coacting with said pins to hold said hook members normally disengaged from said hammer pawls, the notches of said rails being arranged in accordance with a code to release the group of pins at definite points in the movement of the type bar and permutation bar, dependent upon the setting of the pins of the respective groups, to allow the appertaining hook members to engage their related hammer pawls, the rails of the permutation bar coacting with each released group of pins to immediately impart a hammer-pawl-releasing-movement to the related hook members, said permutation bar being moveable transversely to its direction of reciprocation during a portion of each stroke to clear the rails from said pins, means operating during said latter portion of the stroke of the permutation bar to impart new settings to the pins, means to withdraw all of the hook members from engagement with said hammer pawls during the time that the rails of the permutation bar are clear of said pins, and print control means including means to latch said hook withdraw-

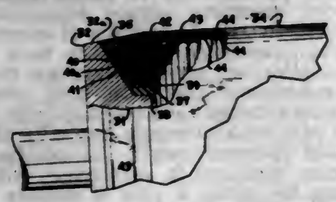
ing means in the disengaging position during the following cycle to render the hooks ineffective to release the hammer pawls.

2,651,255
HAND USE STENCIL PAD UNIT
Fred R. Wallich, Los Angeles, Calif.
Application April 16, 1951, Serial No. 221,183
9 Claims. (Cl. 101—125)



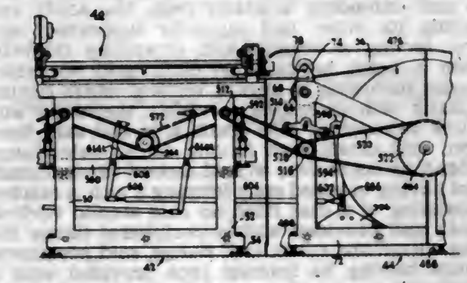
1. A stencil pad unit for hand soil-proof, leak-proof use, having a member which is of a non-woven, smooth-faced, thin porous sheet of non-absorbent material, an impervious frame forming an aperture, a thin impervious backing to one face of which said frame is adherent, an ink pad in said aperture and lodged on said backing, said member covering said pad and being affixed to the surrounding frame, an impervious frame-like spacer fixed on the margin of said member, and a stencil element affixed to the said spacer.

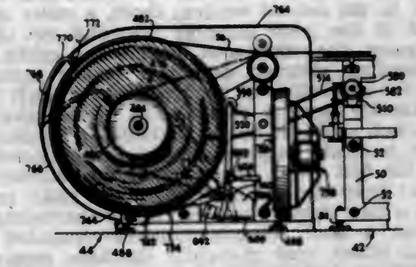
2,651,256
IMPRESSION CYLINDER FOR INTAGLIO PRINTING PRESSES
William F. Huck, Forest Hills, N. Y., assignor to Huck Company, New York, N. Y., a partnership
Application January 17, 1949, Serial No. 71,250
4 Claims. (Cl. 101—407)



1. In an impression cylinder of the kind described, a body portion, means at either end of the body portion and providing therewith a circumferential recess, said means including a pair of flanges, each of said flanges being disposed in angular relation with respect to the said body portion, a flexible covering arranged within the recess, said covering including a bottom layer of rubber directly engaging and bonded to the body portion, a layer of rubber composition superimposed upon and attached to the first mentioned layer of rubber, a rubber covered wire embedded within said rubber composition and encircling the body portion in staggered layers of windings, and means including additional rubber and woven material for reinforcing the flexible covering and providing a uniformly smooth surface thereon.

2,651,257
STENCIL PRINTING APPARATUS
John B. Thomas, Watertown, Conn., and Courtney E. Moorhouse, West Englewood, N. J., assignors to Roto-Matic Screen Printer, Ltd., New York, N. Y., a corporation of New York
Application March 3, 1949, Serial No. 79,413
18 Claims. (Cl. 101—407)





1. In combination in a silk screen printing machine, a printing table, an elongated flexible blanket, means to move said blanket lengthwise across said table in contact with the top thereof, a belt secured to the surface of the blanket adjacent a lateral edge thereof and running lengthwise of the blanket, and means adjacent the table to prevent transverse shifting of said blanket on said table, said last named means comprising a pair of rotary retaining elements adapted to engage the opposite lateral edges of said belt and means disposed on the opposite side of said blanket to maintain said belt between said rotary members.

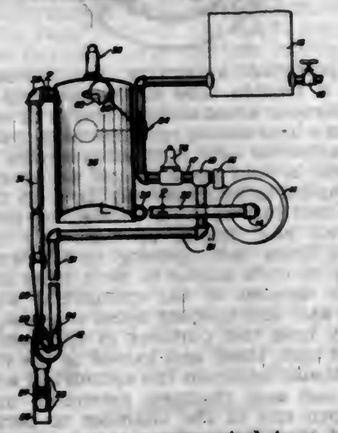
18. In a silk screen printing machine, an elongated flexible blanket, a pair of reels to act as supply and take-up reels for the blanket, a motor, a variable speed drive operated by said motor, means to selectively turn either one of said reels from said variable speed drive, said variable speed drive having a variably positioned member the position of which determines the speed ratio of said drive, means operationally responsive only to the diameters of the blanket on the reel being driven, and means kinematically interconnecting said last-named means and the variably positioned member to reduce the speed at which the motor turns over the take-up reel as the diameter of the blanket increases thereon in such fashion that the blanket will be pulled at a substantially uniform linear speed across the table, said last-named means including a cam, a cam follower for moving said variably positioned element and a pair of members each of which is responsive to the position of a different reel, said members being arranged to alternately positively engage said cam and to move to a position in which the member engaging the cam disengages the cam whereby said members will alternately control the movement of the cam.

2,651,258
FIELD-SENSITIVE HYDRAULIC APPARATUS
Firth Pierce, Altadena, Calif.
Application September 10, 1948, Serial No. 48,547
1 Claim. (Cl. 103—1)
(Granted under Title 35, U. S. Code (1952), sec. 266)



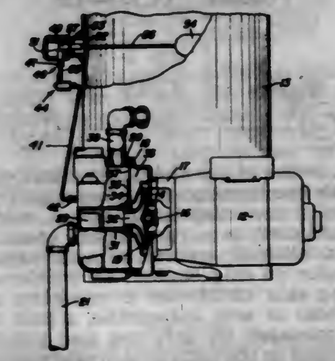
A pump for ferro-magnetic fluid comprising a stationary housing, a rotor therein formed of magnetic material with a narrow peripheral passage, means for supplying ferro-magnetic fluid to said passage, means in said rotor for producing a variable magnetic field to cause said fluid to cling to the walls of said passage, and a stationary non-magnetic scraper carried by said housing and extending inwardly in close proximity to the walls of said passage and effective to remove said fluid therefrom and direct it outwardly of the rotor.

2,651,259
APPARATUS FOR CONTROLLING THE OPERATION OF DOMESTIC WATER SYSTEMS
Alanson P. Brush, Detroit, Mich.
Application May 20, 1949, Serial No. 94,407
9 Claims. (Cl. 103—5)



1. A water system connected to a source of water supply comprising, in combination, a centrifugal pump, a jet pump and a pneumatic tank, said system having connections arranged so that water under pressure is supplied from the centrifugal pump to the jet continuously when the system is in normal operation, water is drawn from the source of supply into the suction of the jet pump, the combined stream of water flows from the discharge of the jet pump to the suction of the centrifugal pump and the water discharged by the centrifugal pump passes to the pneumatic tank except for such water as is continuously recirculated to the jet of the jet pump, an air trap between the discharge of the jet pump and the suction of the centrifugal pump adapted normally to contain a substantial volume of water and in which air and water separation may occur so that the water supplied to the centrifugal pump is substantially air free, means for automatically releasing air from said air trap to atmosphere comprising a float valve having a seat against which it is normally pressed, a valve in the connection to the pneumatic tank from the discharge of the centrifugal pump, and mechanical means in the air trap connected to said second valve for closing said second valve when the water in the air trap falls to a predetermined level.

2,651,260
AIR CHARGING AND AIR VOLUME CONTROL FOR WATER SYSTEMS
Allan F. Nancy, Seneca Falls, N. Y., assignor to Goulds Pumps, Inc., Seneca Falls, N. Y., a corporation of New York
Application June 21, 1950, Serial No. 169,377
3 Claims. (Cl. 103—6)



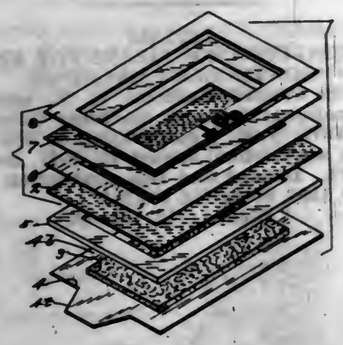
1. An air volume control for the pneumatic tank of a domestic water system having a pressure pump for supplying water from the source of supply to the pneumatic tank, in combination, an air conduit connected to the suction of the pump and subject to the subatmospheric pressure existent at said suction at least at times during the operation of the system, an inlet for air from atmosphere to said conduit, means in said conduit for restricting the flow of air through said conduit, said means comprising a fitting having a bore with the bore constituting part of the conduit and a threaded element in said bore providing a restricted helical path for the flow of air and means in said conduit for preventing a flow of liquid from said pump toward said pneumatic tank when a super atmospheric pressure exists at the suction of the pump.

2,651,261
HYDRAULIC SPEED-SENSITIVE CONTROL SYSTEM FOR PRIME MOVERS
David Omri Davies, Edgware, England, assignor to Rolls-Royce Limited, Derby, England, a British company
Application December 2, 1950, Serial No. 198,766
In Great Britain December 7, 1949
17 Claims. (Cl. 103—11)

1. A hydraulic speed-sensitive system comprising a fixed-capacity pump, means to drive said pump at a rotational speed proportional to the speed to which said device is to be sensitive, flow-restricting means connected to the pump to receive the delivery flow therefrom including a first flow-restricting device of relatively large effective area and in series therewith an addi-

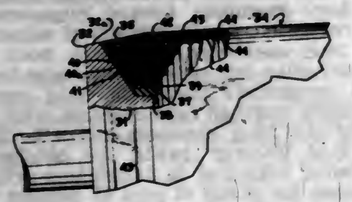
ing means in the disengaging position during the following cycle to render the hooks ineffective to release the hammer pawls.

2,651,255
HAND USE STENCIL PAD UNIT
Fred R. Wallich, Los Angeles, Calif.
Application April 16, 1951, Serial No. 221,183
9 Claims. (Cl. 101—125)



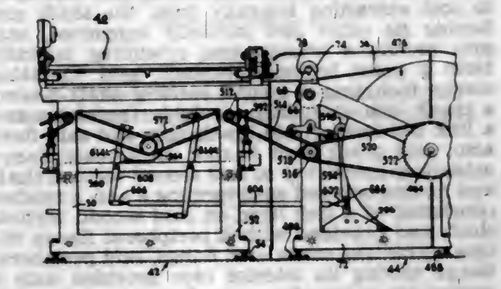
1. A stencil pad unit for hand soil-proof, leak-proof use, having a member which is of a non-woven, smooth-faced, thin porous sheet of non-absorbent material, an impervious frame forming an aperture, a thin impervious backing to one face of which said frame is adherent, an ink pad in said aperture and lodged on said backing, said member covering said pad and being affixed to the surrounding frame, an impervious frame-like spacer fixed on the margin of said member, and a stencil element affixed to the said spacer.

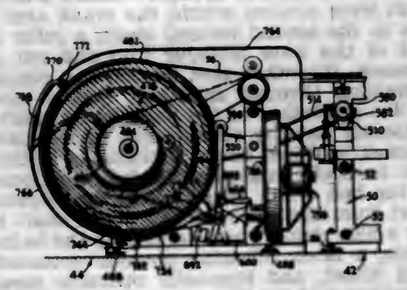
2,651,256
IMPRESSION CYLINDER FOR INTAGLIO PRINTING PRESSES
William F. Huck, Forest Hills, N. Y., assignor to Huck Company, New York, N. Y., a partnership
Application January 17, 1949, Serial No. 71,250
4 Claims. (Cl. 101—407)



1. In an impression cylinder of the kind described, a body portion, means at either end of the body portion and providing therewith a circumferential recess, said means including a pair of flanges, each of said flanges being disposed in angular relation with respect to the said body portion, a flexible covering arranged within the recess, said covering including a bottom layer of rubber directly engaging and bonded to the body portion, a layer of rubber composition superimposed upon and attached to the first mentioned layer of rubber, a rubber covered wire embedded within said rubber composition and encircling the body portion in staggered layers of windings, and means including additional rubber and woven material for reinforcing the flexible covering and providing a uniformly smooth surface thereon.

2,651,257
STENCIL PRINTING APPARATUS
John B. Thomas, Watertown, Conn., and Courtney E. Moorhouse, West Englewood, N. J., assignors to Roto-Matic Screen Printer, Ltd., New York, N. Y., a corporation of New York
Application March 3, 1949, Serial No. 79,413
18 Claims. (Cl. 101—407)

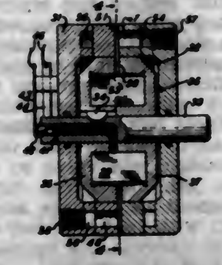




1. In combination in a silk screen printing machine, a printing table, an elongated flexible blanket, means to move said blanket lengthwise across said table in contact with the top thereof, a belt secured to the surface of the blanket adjacent a lateral edge thereof and running lengthwise of the blanket, and means adjacent the table to prevent transverse shifting of said blanket on said table, said last named means comprising a pair of rotary retaining elements adapted to engage the opposite lateral edges of said belt and means disposed on the opposite side of said blanket to maintain said belt between said rotary members.

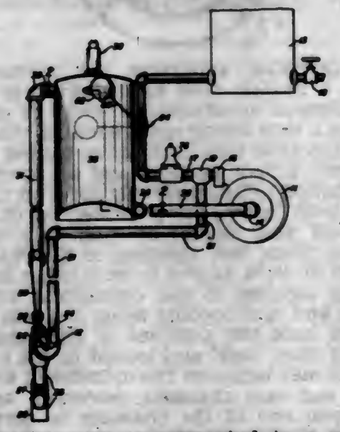
18. In a silk screen printing machine, an elongated flexible blanket, a pair of reels to act as supply and take-up reels for the blanket, a motor, a variable speed drive operated by said motor, means to selectively turn either one of said reels from said variable speed drive, said variable speed drive having a variably positioned member the position of which determines the speed ratio of said drive, means operationally responsive only to the diameters of the blanket on the reel being driven, and means kinematically interconnecting said last-named means and the variably positioned member to reduce the speed at which the motor turns over the take-up reel as the diameter of the blanket increases thereon in such fashion that the blanket will be pulled at a substantially uniform linear speed across the table, said last-named means including a cam, a cam follower for moving said variably positioned element and a pair of members each of which is responsive to the position of a different reel, said members being arranged to alternately positively engage said cam and to move to a position in which the member engaging the cam disengages the cam whereby said members will alternately control the movement of the cam.

2,651,258
FIELD-SENSITIVE HYDRAULIC APPARATUS
Firth Pierce, Altadena, Calif.
Application September 10, 1948, Serial No. 48,547
1 Claim. (Cl. 103—1)
(Granted under Title 35, U. S. Code (1952), sec. 266)



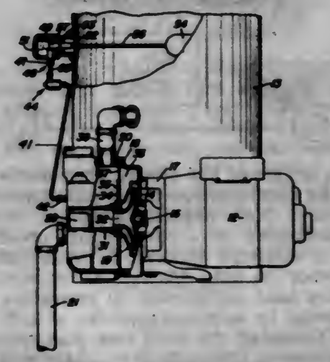
A pump for ferro-magnetic fluid comprising a stationary housing, a rotor therein formed of magnetic material with a narrow peripheral passage, means for supplying ferro-magnetic fluid to said passage, means in said rotor for producing a variable magnetic field to cause said fluid to cling to the walls of said passage, and a stationary non-magnetic scraper carried by said housing and extending inwardly in close proximity to the walls of said passage and effective to remove said fluid therefrom and direct it outwardly of the rotor.

2,651,259
APPARATUS FOR CONTROLLING THE OPERATION OF DOMESTIC WATER SYSTEMS
Alanson P. Brush, Detroit, Mich.
Application May 20, 1949, Serial No. 94,407
9 Claims. (Cl. 103—5)



1. A water system connected to a source of water supply comprising, in combination, a centrifugal pump, a jet pump and a pneumatic tank, said system having connections arranged so that water under pressure is supplied from the centrifugal pump to the jet continuously when the system is in normal operation, water is drawn from the source of supply into the suction of the jet pump, the combined stream of water flows from the discharge of the jet pump to the suction of the centrifugal pump and the water discharged by the centrifugal pump passes to the pneumatic tank except for such water as is continuously recirculated to the jet of the jet pump, an air trap between the discharge of the jet pump and the suction of the centrifugal pump adapted normally to contain a substantial volume of water and in which air and water separation may occur so that the water supplied to the centrifugal pump is substantially air free, means for automatically releasing air from said air trap to atmosphere comprising a float valve having a seat against which it is normally pressed, a valve in the connection to the pneumatic tank from the discharge of the centrifugal pump, and mechanical means in the air trap connected to said second valve for closing said second valve when the water in the air trap falls to a predetermined level.

2,651,260
AIR CHARGING AND AIR VOLUME CONTROL FOR WATER SYSTEMS
Allan F. Hancy, Seneca Falls, N. Y., assignor to Goulds Pumps, Inc., Seneca Falls, N. Y., a corporation of New York
Application June 21, 1950, Serial No. 169,377
3 Claims. (Cl. 103—6)

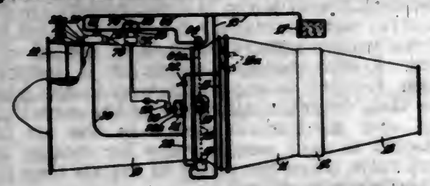


1. An air volume control for the pneumatic tank of a domestic water system having a pressure pump for supplying water from the source of supply to the pneumatic tank, in combination, an air conduit connected to the suction of the pump and subject to the subatmospheric pressure existent at said suction at least at times during the operation of the system, an inlet for air from atmosphere to said conduit, means in said conduit for restricting the flow of air through said conduit, said means comprising a fitting having a bore with the bore constituting part of the conduit and a threaded element in said bore providing a restricted helical path for the flow of air and means in said conduit for preventing a flow of liquid from said pump toward said pneumatic tank when a super atmospheric pressure exists at the suction of the pump.

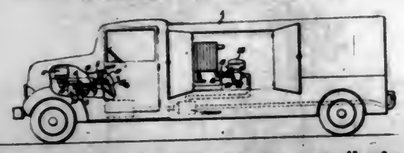
2,651,261
HYDRAULIC SPEED-SENSITIVE CONTROL SYSTEM FOR PRIME MOVERS
David Omri Davies, Edgware, England, assignor to Rolls-Royce Limited, Derby, England, a British company
Application December 2, 1950, Serial No. 198,766
In Great Britain December 7, 1949
17 Claims. (Cl. 103—11)

1. A hydraulic speed-sensitive system comprising a fixed-capacity pump, means to drive said pump at a rotational speed proportional to the speed to which said device is to be sensitive, flow-restricting means connected to the pump to receive the delivery flow therefrom including a first flow-restricting device of relatively large effective area and in series therewith an addi-

tional flow-restricting device of relatively small effective area, pressure-sensitive means subjected to pressure differences across said flow-restricting devices, flow by-pass means connected to the upstream and downstream sides of said additional flow-restricting device, and a valve in said by-pass means to control the flow therethrough.

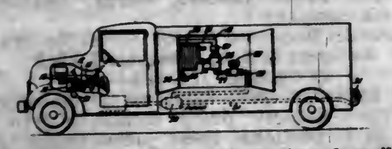


2,651,262
CONTROL DEVICE
William Watt Mathews, Richmond, Va.
Application February 2, 1950, Serial No. 142,031
2 Claims. (Cl. 192—13)



1. In a device of the character described; comprising the combination of an automobile engine geared to a fuel dispensing pump, said pump being interposed in a fuel supply conduit, of a battery, a solenoid secured to said automobile; a carburetor on said engine; an accelerator rod connecting said carburetor in operative relation with a pedal in said automobile, a lock nut adjustably mounted on said rod and constituting a stop located in the path of movable means actuated by said solenoid, said movable means comprising an extension having one of its ends slidably embracing said rod adjacent said nut, the other end of said extension being secured to the plunger of said solenoid, a check valve located in said conduit to normally prevent backward flow of said fuel in said conduit, a switch supported on said conduit, said switch comprising a stationary contact and a movable contact member, switch operating means mounted on said conduit for manually operating said member, said switch being in an electrical circuit with the battery and said solenoid, whereby manual operation of said switch member will actuate the solenoid and its extension to increase the speed of the engine, the dispensing pump as well as the flow of fuel through said conduit and its check valve, substantially as described.

2,651,263
CONTROL DEVICE
William Watt Mathews, Richmond, Va.
Application October 3, 1950, Serial No. 188,189
2 Claims. (Cl. 192—13)



1. In a device of the character described in combination with an automobile engine geared to a fuel pump, of a solenoid secured to said automobile; a carburetor on said engine; a rod connecting said carburetor and in operative relation with a pedal; a lock nut secured to said rod in adjustable fashion; an extension mounted in slidable fashion on said rod and secured to a plunger in said solenoid; a check valve provided with a rod having secured to one of its ends a valve head seated in movable fashion upon the inlet of said check valve and its other end in operative relation with a rod connected to an electrical contact in a box secured upon said check valve; an electrical contact secured in said box in juxtaposition to and in operative relation with said first named contact; a battery in electrical circuit with said solenoid and contacts; said contacts being in normal open position and adapted to engage each other when a liquid flows through said valve so as to automatically close said electrical circuit which causes said solenoid to actuate said extension into engagement with said lock nut and thereby move said rod to operate the carburetor to increase the speed of said engine.

2,651,264
FLUID PUMP
Paul M. W. Bruckmann, Alpine, N. J., assignor to The De Pieres Company, Inc., New York, N. Y., a corporation of Delaware
Application February 10, 1951, Serial No. 210,403
4 Claims. (Cl. 192—149)



1. A pumping apparatus for moving fluid through a flexible tube by compressing successive contiguous areas along a length of said tube formed in a loop during each pumping cycle, comprising, a flexible tube, a chamber having a cylindrical wall, a floor portion, and an open end, a cover adapted to be removably fixed on the open end, at least one opening formed in the cylindrical wall and having at least two channels extending from said opening in the wall, substantially at right angles to each other and substantially tangent to the cylindrical wall, said channels and said opening being of a size to constrictively hold two portions of the tube which is crossed upon itself and looped in the chamber and positioned adjacent the cylindrical wall, said opening and said channels extending upwardly to the open end of the chamber to permit the placing of the tube in the opening and channels by passing it in from the open end whereby the loop of tube may be placed in the pumping apparatus without disturbing the terminal ends of the tube remote from the loop, the wall of the chamber being of sufficient axial length to accommodate the tube when in compressed condition, a cylindrical pumping member having a diameter smaller than the cylindrical wall of the chamber, means for rotatably mounting the pumping member and means for moving the pumping member in a path about the axis of the cylindrical wall so that successive areas of the periphery of the pumping member compress successive contiguous areas along the length of the loop of tube against the cylindrical wall during each cycle of the pumping member in the path about the axis of the cylindrical wall, the tube being substantially continuous around the wall of the chamber so that the pumping member commences a new cycle upon the completion of the preceding cycle.

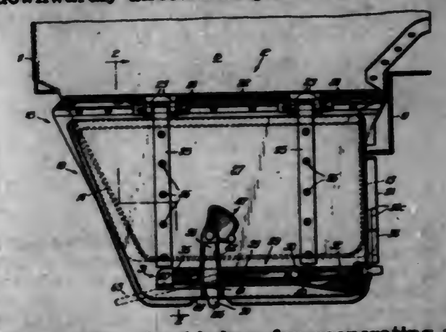
2,651,265
DROP TABLE
Lawrence Richardson, Cambridge, Mass.
Application June 7, 1949, Serial No. 97,531
2 Claims. (Cl. 104—32)



1. In a drop table designed for use with a main railway track having an interruption space disposed above a shallow transverse pit and forming therewith a service station between adjacent ends of the rails of the track for lowering or raising a truck in relation to a vehicle supported by a drop table bridging the interruption space, said pit being provided with a trackway on the floor portion thereof extending across said space and on opposite sides thereof transversely of the main railway track, a traversing carriage separate and indepedent of the drop table having means for raising and lowering the table and being mounted for travel along the pit trackway for transporting the table when lowered in either direction away from said space and from the main railway track, said drop table carrying bridging rails and comprising a main body portion adapted to be disposed above the pit and having permanent outriggers of substantial length adapted to span the gaps between the main body portion and the rail ends, said carriage having a frame portion adapted to underlie and support substantially the entire main body portion of the drop table, and supplemental supporting means underlying the table beyond the limits of the carriage frame and independent of the table, for supporting the table in rail bridging position at said station, while permitting the carriage to be lowered and removed to a separate portion of the pit, said supplemental supporting means comprising one set of members movable into position to support the main body portion of the table adjacent the corners thereof and another set of members substantially spaced therefrom and movable into position to support the outriggers adjacent the outer ends thereof, said sets of members being also retractible to positions out of the path of the table.

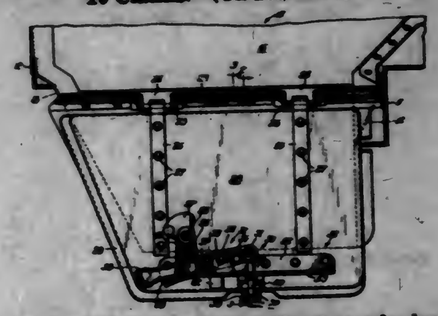
2,651,266
LATCHING AND CLOSING MEANS FOR RAILWAY CAR HOPPER DOORS
George B. Derey, Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application December 22, 1949, Serial No. 134,630
3 Claims. (Cl. 105—306)

1. Latch means for a door for closing the discharge opening of a railway car or the like where the door is hinged along its upper edge comprising, in combination, a latch bar pivotally mounted intermediate its ends along the swinging edge of said door thereby providing a pair of oppositely extending arms of different lengths the shorter of which extends beyond one side of said door while the longer extends toward but not beyond the other side of said door and has a depending portion spaced from the pivot axis of said latch bar and in latching position projecting beyond the swinging edge of said door, an apertured keeper on said car along the lower edge of said door for cooperating with said depending portion by endwise downward movement thereof through the aperture to hold said door closed, a downwardly directed keeper on said car along



said one side of said door for cooperating with said shorter arm by sidewise upward movement thereof to hold said door closed, and an inclined runway portion on said downwardly directed keeper for engaging said shorter arm during closing movement of said door to swing said latch bar and said depending portion carried thereby clear of said apertured keeper and into a position where, on further movement of said door, said depending portion is movable into said aperture.

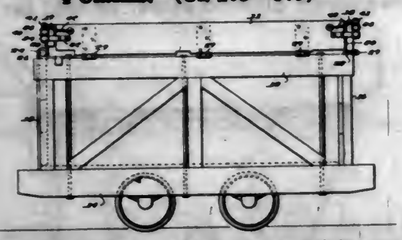
2,651,267
LATCHING MEANS FOR HOPPER CAR DOORS
George B. Derey, Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application January 5, 1950, Serial No. 137,916
10 Claims. (Cl. 105—306)



1. In a latching means for the door of a hopper railway car having a discharge opening and a door pivotally mounted adjacent the upper part of the opening to assume a pendant open position, the improvement in means for latching the door in closed position, including a keeper carried by the hopper and located adjacent the swinging edge of the door, an elongated latch element carried by the door and bodily movable generally endwise at right angles to the hinge axis of the door for cooperating with said keeper for latching the door in closed position, means biasing said latch element to move upwardly, and interengaging parts on said keeper and latch element cooperating on closing of the door to move said latch element downwardly until the same clears

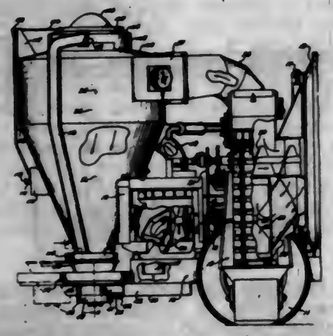
said keeper whereupon said biasing means moves said latch element upwardly into latching position with said keeper.

2,651,268
MINE CAR TOPPING GATE
Anthony Casciano, Scranton, Pa.
Application May 24, 1951, Serial No. 228,012
4 Claims. (Cl. 105—379)



1. A mine car topping frame comprising a mine car having side and end walls, gates, butt hinges having hinge plates pivotally connected with pins positioned with one of said plates secured to the upper edges of said side walls and to the upper edge of one of said end walls, and another of said hinge plates being secured to edges of said gates whereby the gates, selectively extend upwardly from the upper edges of the side and end walls or nest against the outer surfaces of said walls, straps having hubs on extended ends thereof positioned on the ends of the said gates, and pins flexibly connected to the said side walls and positioned to extend through the hubs of the straps for retaining the said gates in upwardly extended positions and also in downwardly folded positions.

2,651,269
MOBILE DEHYDRATOR
Henry C. French, Elm Grove, Wis., assignor to Arnold Dryer Co., Milwaukee, Wis., a corporation of Wisconsin
Application April 13, 1950, Serial No. 155,709
18 Claims. (Cl. 107—4)



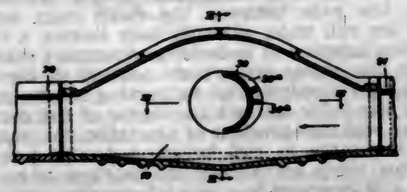
1. In combination: a dehydrating machine having a drying unit and having discharge means connected to said unit which discharge means has a discharge opening for the dehydrated product and a discharge opening for moisture laden gases from said drying unit; a pelleting device positioned to receive the dehydrated product from said product discharge opening; and means including a conduit having an end connected to said discharge means for intercepting gases which have become moisture laden in said drying unit and for directing said moisture laden gases into said pelleting device.

2,651,270
DISPENSING NOZZLE
Frank T. Meser, Easton, Pa., assignor to Limpert Brothers, Incorporated, New York, N. Y., a corporation of New York
Application February 9, 1951, Serial No. 210,153
1 Claim. (Cl. 107—14)



A nozzle for an ice-cream filling machine comprising a flaring annular member attached to the discharge conduit of the filling machine, the lower periphery of said annular member being serrated about its periphery, a central member having holes extending upwardly from the lowermost surface thereof and a flaring outer surface, said central member being supported from said annular member and in fixed position therein, the supporting members for said central member comprising tubes extending through the wall of said annular member and entering said central member in positions to communicate with the holes extending from the lowermost surface of said central member.

2,651,271
HEATING SYSTEM FOR BAKERS' OVENS AND OTHER HEATING CHAMBERS
Joseph Francis Nayler, Newton-Le-Willows, England, assignor to T. & T. Vicars Limited, Newton-Le-Willows, England, a British company
Application April 28, 1950, Serial No. 158,725
In Great Britain April 28, 1949
2 Claims. (Cl. 107—63)



1. A heating system for a heating chamber including in combination a heat exchange duct, means to impel a gaseous heat carrying medium along said duct in one direction, means to inject hot products of combustion into said duct at right angles thereto, and a trough-like deflector shield of heat resisting material disposed in said duct along the path of the injected combustion products to shield same from the heat carrying medium impelled along said duct, wholly closed on the upstream side and wholly open on the downstream side to allow undisturbed flow of the products of combustion thereby shielded into the downstream current passing the said shield.

2,651,272
BAG CLOSING AND DELIVERY UNIT
Jack W. Carter, Winter Haven, Fla., assignor to Fulton Bag & Cotton Mills, Atlanta, Ga., a corporation of Georgia
Application July 31, 1947, Serial No. 765,137
8 Claims. (Cl. 112—11)

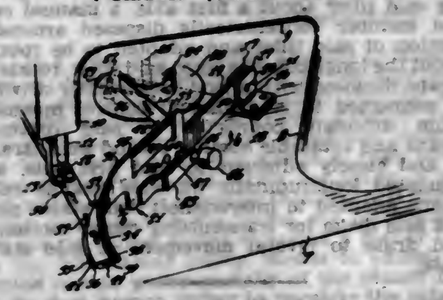
1. Apparatus for closing fabric bags filled with citrus fruit or similar spherical articles and for conveying the filled fabric bags from a filling

station to a bag closing station, which comprises, in combination, a machine frame, a horizontally disposed bottom conveyor mounted on the frame, oppositely disposed spaced parallel lateral conveyors carried by the frame and vertically disposed relative to the bottom conveyor, driving means for driving the said horizontal bottom conveyor and the lateral conveyors at the same speed, the bottom conveyor being adapted to receive filled bags from bag-filling instrumentalities and to convey the same in substantially upright position between the said lateral conveyors, the said lateral conveyors being adapted to oppositely engage the bags and to convey them



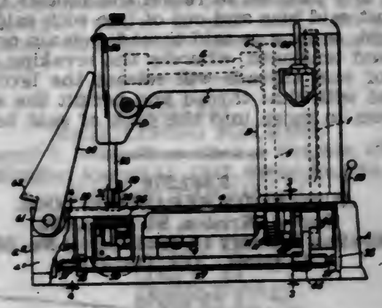
in upright position along the conveyor, the said lateral conveyors including a plurality of vertical resilient bag-gripping elements comprising sponge rubber pads mounted on and extending crossways at right angles to the horizontal movement of the lateral conveyors, and means flexibly interconnecting the said elements together, the said bag-gripping elements being normally spaced from, and out of contact with each other throughout their horizontal travel on the lateral conveyors, and adapted to continuously support the bags and contents longitudinally thereof through central portions of the bags and contents.

2,651,273
SEAM BINDING ATTACHMENT FOR SEWING MACHINES
Joseph Trapani, Brooklyn, N. Y.
Application April 7, 1952, Serial No. 280,995
7 Claims. (Cl. 112—152)



1. A seam binding attachment for a sewing machine having a laterally extending rigid arm terminating in a sewing head with a needle movable beneath the latter, said attachment including a stationary bracket upon the machine having a substantially horizontal pivot pin, an elongated bar pivotally mounted at one end upon said pin, a guide plate portion upon the other end of said bar having a pair of upwardly open slots spaced a predetermined distance apart, a tape reel supporting arm supported upon said bar rearwardly of said rigid arm and having an upright center stud for the reel, said guide plate portion continuing in an arcuate forwardly twisted guide portion terminating in a forwardly and downwardly bent extremity for directing tape from the reel rearwardly past the sewing zone of the machine beneath the needle thereof.

2,651,274
LOCK STITCH SEWING MACHINE UNDER BED MECHANISM
Richard K. Hehmann, Jamaica, and John T. Dravinski, New Hyde Park, N. Y., assignors to Hehmann Levy, Inc., New York, N. Y., a corporation of New York
Application March 1, 1950, Serial No. 147,092
12 Claims. (Cl. 112—203)



1. In a lock stitch sewing machine, comprising a frame including a work-bed and a needle actuating mechanism above said bed, the improvement comprising an under-bed stitch forming and feed actuating unit for detachable connection to the under side of said work-bed and comprising a body member, a rotary hook and a hook driving shaft journaled in said member, a cam carried by said shaft at one end and operative to give a feed dog horizontal to and fro movements, a second cam carried by said shaft at its other end for giving said feed dog up and down movements, and bobbin case supporting means, mounted on said member and maintaining a bobbin case in operative relation with said rotary hook.

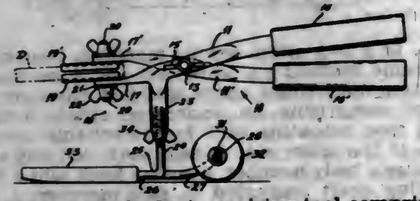
2,651,275
APPARATUS FOR AUTOMATICALLY CONTROLLING THE OPERATION OF BAG SEWING MACHINES
Kenneth N. Moore, West Middletown, Ohio, assignor to The Raymond Bag Company, Middletown, Ohio, a corporation of Ohio
Application June 7, 1949, Serial No. 97,596
7 Claims. (Cl. 112—219)



6. An apparatus for controlling the operation of a sewing machine which comprises a sewing head, means for moving articles to be sewed to and beyond said sewing head, means for tensioning and guiding a plurality of threads to the needle of said sewing head in substantially the same direction, said apparatus including a light sensitive device, a light source to project a beam of light onto said light sensitive device in a path substantially parallel to and adjacent the direction of movement of said threads, means

controlled by said light sensitive device to interrupt the operation of said machine, a plurality of levers pivotally mounted between their ends on separate axes, which axes are substantially parallel with said beam of light, said levers being mounted adjacent said beam of light and intermediate the light source and light sensitive device, a shutter supported by each lever on one side of its axis for movement into and away from the path of said beam of light, said shutters being biased for movement into the said path and of a size to interrupt said beam of light, means connected with the other end of each lever for engaging one of said threads to support said lever in a position to retain the shutter thereon against said bias and out of line with said beam of light, so long as said threads remain continuous and tensioned, whereby the breaking of any one of said threads will release the lever connected with that thread and permit the shutter thereon to move into the path of said beam of light.

2,651,276
AUTO BODY REPAIRING TOOL
Emil A. Kristen, St. Louis, Mo.
Application January 10, 1951, Serial No. 205,376
6 Claims. (Cl. 113—111)



4. An auto body dent repairing tool comprising solder bar holding pliers having heat insulated handles and spaced nose portions, a stem projecting from said pliers, a support frame adjustably carried by said stem and having a forwardly extending projection underlying said nose portions, and a solder smoothing paddle carried by said projection, said paddle having a working face normally positioned below said nose portions and in position to follow the depositing of solder in a dent and effect a smoothing and pressing operation while the solder is in a semi-fluid state.

2,651,277
BOAT ANCHOR WITH SLIDING SHACKLE
Edward Howard Jenshak, Green Bay, Wis.
Application February 6, 1951, Serial No. 209,535
3 Claims. (Cl. 114—208)



1. An anchor comprising in combination a crown comprising a transverse and centrally apertured web having heads at its opposite ends and flukes carried by the respective heads in positions laterally spaced by said web, a pintle pin disposed transversely of the web and spanning the aperture thereof, a shackle link pivoted upon said pin and provided with a pivot pin, an anchor shank having an eye pivoted upon the pin last mentioned and provided with arcuately extending arms spaced at opposite sides of the eye and extending arcuately thereabout, the said shank having a longitudinally extending slot and the arms having branch slots communicating with the shank slot and with each other, and a shackle having a shackle pin slidable and oscillatory in the respective slots for movement from the free end of the shank to the extremities of the slots of the respective arms, the said arm slots extending beyond a line through the center of gravity of the crown and the spacing of the respective arms from the shank eye being such as to receive portions of said web in the event of relative oscillatory movement of the shank respecting the crown.

2,651,278
OUTBOARD MOTOR CONTROL
Taito Davison and Tsevi Davison, Chicago, Ill.; said Tsevi Davison assignor to said Taito Davison
Application February 11, 1949, Serial No. 75,836
7 Claims. (Cl. 115—18)

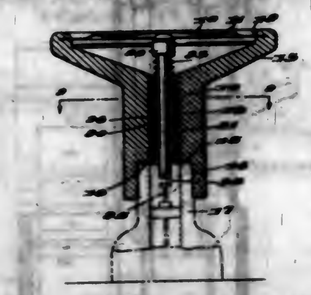


1. For use with a boat-propelling mechanism of the type having a bodily movable structure comprising a motor and an associated propelling mechanism adapted for relative movement with respect to means for supporting said structure and including a pivotally mounted stator plate, the combination of a hollow tiller connected to said structure for applying a force to cause bodily movement of said structure relative to said means for supporting said structure, means for pivoting said tiller about a first axis, a manual control member concentrically disposed around a portion of said tiller and adapted to be rotated about the longitudinal axis of said tiller, rotatable means disposed within said hollow tiller drivingly connected to said manual control means, a drum drivingly connected to said rotatable means and rotatable about a second axis parallel to and closely adjacent to said first axis, and elongated longitudinally movable flexible cable means adapted to interconnect said stator plate and said drum for transmitting rotary motion of said drum to pivotal movement of said stator plate.

2,651,279
PRESSURE RESPONSIVE AND INDICATING DEVICE
Gavin W. Laurie, Springfield, Pa.
Application May 18, 1950, Serial No. 162,673
4 Claims. (Cl. 116—34)

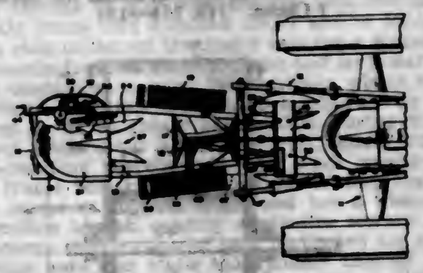
1. In combination with a valve stem having a tire valve therein, a tire pressure indicator, said indicator comprising a body having a chamber adjacent one end thereof, a snap diaphragm normally bowed outward and extending across said chamber and sealed to said body in air-tight relation closing said chamber to the atmosphere, said diaphragm being movable between an inward depressed position and a normally bowed outward position with an audible click action,

the other end of said body having a threaded bore in communication with said chamber and being detachably secured to the threaded end of a tire valve stem, and a slidable plunger stem extending through said chamber and bore and having one end contacting the inner surface of



said diaphragm, the other end of said stem being positioned to contact the valve stem of the tire valve when said diaphragm is moved to the depressed position to thereby release the tire air pressure to within the bore and chamber behind said diaphragm.

2,651,280
PLANT SETTING MACHINE
Marcus D. Justiss, Prescott, and Thomas U. Fallin, Magnolia, Ark.
Application October 3, 1950, Serial No. 188,116
3 Claims. (Cl. 116—99)



1. In a signalling assembly adapted to be operated at predetermined intervals for use with plant setting machines, a frame, wheels therefor and an alarm mounted on the frame, a pulley journalled on the frame, a drive connection between the pulley and one of the wheels so that movement of the frame will rotate the pulley, a second pulley of lesser diameter than the first named pulley journalled on the frame, the periphery of the second named pulley engaging a planar face on the first named pulley, means to adjust the second named pulley radially of the planar face of the first named pulley to regulate the rate of rotation of the second named pulley, an alarm actuator, and means carried by the second named pulley and rotating therewith to move the actuator at predetermined intervals to operate the alarm.

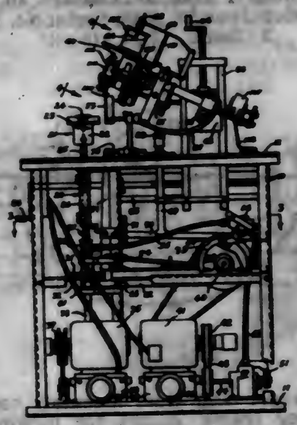
2,651,281
SWITCH MOUNTING
Edward Nathan, New York, N. Y., assignor to Leotra Products Inc., New York, N. Y.
Application February 28, 1942, Serial No. 12,110
5 Claims. (Cl. 116—133)

1. An instrument mounting and control device for an instrument comprising a shank having a portion of non-circular cross section, a knob body having a central recess non-rotatably slidable over the non-circular portion of the shank, a shell carried by said knob having an indicia thereon and rotatable relative to said knob, a



threaded member carried by said shell and forcibly rotatable relative to said shell, and means for rotating said threaded member and said shell in unison.

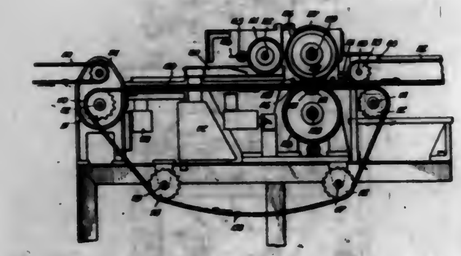
2,651,282
EDGE-LINING MACHINE
Howard V. Schweitzer, Shaker Heights, Ohio
Application August 21, 1947, Serial No. 769,940
7 Claims. (Cl. 118—1)



1. In a machine for lining the edge of ceramic dishware and the like, a vacuum chuck comprising a ware support and a vacuum cup adapted to engage ware placed on said support, a hollow spindle carrying said chuck, the interior of said spindle communicating with the interior of said vacuum cup, a source of vacuum, a line connecting said source to the interior of said spindle, and a valve interposed between said source and said cup to control the operation of said cup in holding and releasing ware placed on said ware support; a clutch, a variable speed first drive means connected to said spindle through said clutch; a centering device adjacent said chuck and comprising adjustably spaced members and means to move said adjustable spaced members toward and away from a position where said members are adjusted to center, on said chuck, ware placed in contact with said members; a lining head mounted adjacent said chuck and comprising a color-carrying, resiliently-surfaced lining roll having an axial length greater than the width of the line to be inscribed, a driving feed roll, and an intermediate transfer roll in rolling contact with said drive roll, second positive drive means for said driving feed roll to drive said lining roll through said transfer roll, means for resiliently supporting said lining roll to permit angular and radial movement of said lining roll with respect to said

transfer roll and urging said lining roll toward rolling contact with said transfer roll, means to supply color to said driving feed roll at a substantially continuous rate, whereby said color is supplied to said lining roll when said transfer roll is in contact therewith, means to regulate the rate at which color is supplied to said driving feed roll, adjustable means to support said lining head so that said lining roll will engage the edge of ware carried by and centered on said chuck; means to drive said driving feed roll so that the peripheral speed of said lining roll is substantially equal to the peripheral speed of the ware, and means continuously distributing the color on said lining roll; and means to move said lining head in and out of engagement with ware on said chuck, engage and disengage said chuck, operate said vacuum valve, and operate said centering device in timed relationship with respect to each other during a cycle of operation.

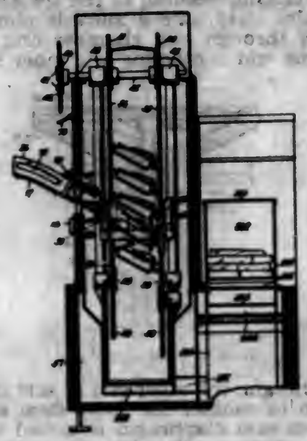
2,651,283
CONVEYER AND ADHESIVE APPLICATOR FOR CARTON BLANKS
Julius A. Zinn, Jr., Chicago, Ill.
Application June 30, 1949, Serial No. 102,345
3 Claims. (Cl. 118—2)



1. A conveyor and gluer assembly comprising a supporting frame, guides for guiding linear movement of flat blanks on the frame, an adhesive applying roll above the guides, a pressure roll below the guides, a conveyor adapted to move blanks through and between said rolls, an adhesive feeding roll adjacent the adhesive applying roll, and means adjacent the conveyor operative when the conveyor is clear of blanks to remove adhesive from the feeding roll prior to contact with said applying roll, said means comprising a doctor roll, a light source and electric eye below the guides, reflecting means above the guides and solenoid operated means controlled by the electric eye, said solenoid operated means operating the doctor roll to remove adhesive from the applying roll.

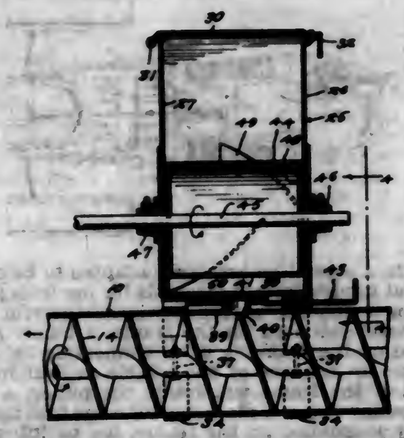
2,651,284
WAX COATING APPARATUS
Julius A. Zinn, Jr., Chicago, Ill., and Odd Wennberg, Manhasset, and Jack Swendsen, Lynbrook, N. Y.; said Wennberg and said Swendsen assignors to said Zinn, Jr.
Application June 1, 1950, Serial No. 165,476
10 Claims. (Cl. 118—6)

10. In combination, a carton feeder and a waxer for cartons or the like, the waxer having a receiving chute, carton containers, a conveyor passing said containers past the inner end of the chute, and means associated with the chute for stopping operation of the machine upon jamming of cartons in the chute, said means comprising means resiliently engaging cartons passing through the



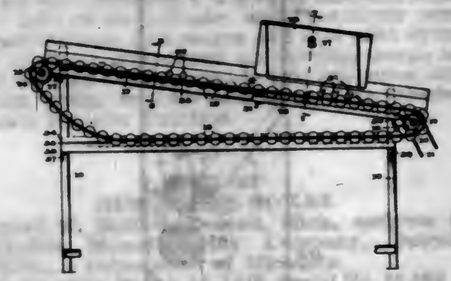
chute and power control means actuated by predetermined movement of said engaging means.

2,651,285
GRAIN TREATMENT MEANS
Harold A. Westberg, Salina, Kans., assignor to The Wyatt Manufacturing Co., Inc., Salina, Kans.
Application November 8, 1951, Serial No. 255,433
1 Claim. (Cl. 118—19)



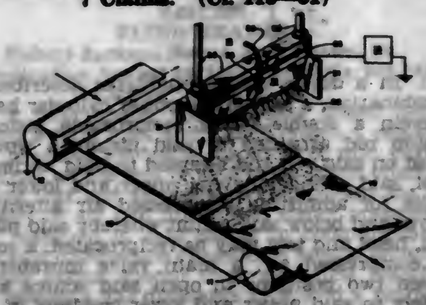
In combination, a grain loader comprising a tubular housing having a discharge opening at one end and an intake at the other end, a screw conveyor rotatable in said housing, a treatment material hopper, securing means for mounting said hopper on said housing adjacent said intake, a connection between said hopper and said housing whereby the material in said hopper will be discharged into said housing, an agitator rotatable on a horizontal axis aligned with the axis of said conveyor comprising a cylinder having spirally disposed blades thereon in said hopper, common drive means for simultaneously rotating said conveyor and said agitator, and an operative connection between said agitator and said conveyor rotating means, valve means in said connection for regulating the discharge of material to said housing, and means exterior of said housing for regulating said valve.

2,651,286
COATING MACHINE FOR EDIBLE PRODUCTS
Gordon G. Oldham, Leesburg, Fla., assignor to American Machinery Corporation, Orlando, Fla., a corporation of Florida
Application August 12, 1949, Serial No. 109,970
2 Claims. (Cl. 118—24)



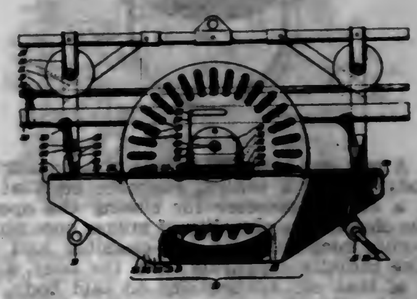
1. In an apparatus for applying a coating to objects, the combination with a supporting frame, a traveling live-roller conveyor having side chain-like members, spaced means on said frame and over which said chain-like members are trained to provide a generally horizontal flight-bed upon which said objects are received thereon at one end portion and discharged therefrom at its other end portion, means for driving said conveyor, a coating applicator positioned over said flight-bed at its receiving end portion and extending thereover for a distance to apply said coating to said objects, of elongated members carried by and substantially longitudinally of said frame and disposed under and in contact with said rollers of the flight-bed for a distance forwardly from its receiving end and terminating said contact at a point substantially where said conveyor emerges from said applicator in its travel so as to rotate said rollers during their travel under said applicator and render them non-rotating therebeyond, and track means on the frame positioned under each of said chain-like members of said flight-bed for a distance extending beyond coating applicator toward the discharge end portion of said flight-bed for supporting said bed while said rollers thereof are not rotating and while excess coating material is draining from said objects and said coating is setting or hardening on said objects prior to its discharge from said flight-bed.

2,651,287
ELECTROSTATIC COATING APPARATUS
Robert H. Turner, Indianapolis, Ind., assignor to Ransburg Electro-Coating Corp., Indianapolis, Ind., a corporation of Indiana
Application March 16, 1949, Serial No. 80,753
7 Claims. (Cl. 118—51)



1. In an electrostatic atomizing device for use in the electrostatic deposition of liquid coating material on an article, a discharge head having an elongated member of electrically conductive material provided with an elongated, rectilinear edge, means for supplying liquid coating material to said edge, two field-modifying members provided on said head and comprising a pair of plates secured to said head normal to said edge, with each plate having a portion projecting laterally from said elongated member and forwardly from said edge, said plates being located at points adjacent to and beyond the opposite ends of the liquid at said edge, means for connecting the discharge head to a source of high electrical potential to create between said head and the article an electrostatic field sufficient to atomize coating material supplied to said edge and to move the same toward the article, and means for supporting the head in opposed relationship to the article and at a distance sufficient to permit substantial dispersion of the atomized particles during their movement toward the article.

2,651,288
LIQUID APPLYING DEVICE FOR CABLES, WIRES, AND THE LIKE
Clarence J. Reigh, Altoona, Pa.
Application February 16, 1951, Serial No. 211,263
7 Claims. (Cl. 118—103)

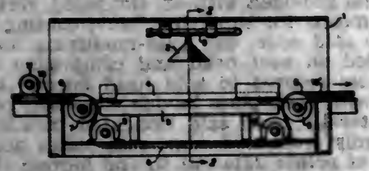


1. Apparatus for coating an elongate body with a fluid, comprising a receptacle for the coating fluid, means for suspending said receptacle below said elongate body, and a pair of rotary liquid applicator discs supported at opposite sides of said body at an angle to the vertical in said receptacle, each of said applicator discs extending from within the receptacle to a point above the top of said receptacle, each of said applicator discs also being pivotally mounted for swinging movement toward and away from said elongate body and toward and away from one another, and each said applicator disc normally bearing against said elongate body by reason of its own weight.

2,651,289
APPARATUS FOR FINISHING WOOD FLOORING UNITS
John R. Kitterman, Memphis, Tenn., assignor to E. L. Bruce Company, Memphis, Tenn., a corporation of Delaware
Application January 26, 1950, Serial No. 140,721
3 Claims. (Cl. 118—324)

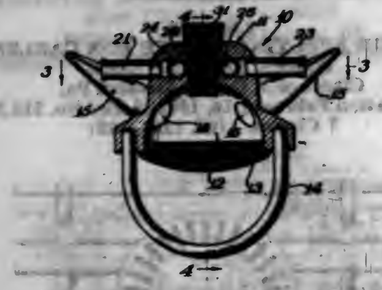
1. In apparatus for the finishing of wood flooring units, a stationary grill, spray means positioned above said grill, means for the delivery of a liquid finishing composition to said spray means, a drip pan positioned beneath said grill, a roll positioned adjacent each end of said grill, a second pair of rolls positioned below said drip

pan and an endless belt having one of its reaches extending oppositely from the ends of said grill



and passing over said rolls whereby said reach is passed beneath said drip pan.

2,651,290
CLAW FOR MILKING MACHINES
Harold W. Hein, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application October 26, 1951, Serial No. 253,282
7 Claims. (Cl. 119—14.54)



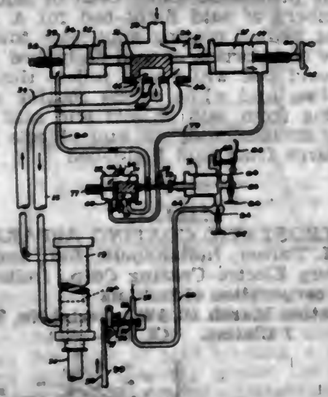
1. A teat cup claw for milker units comprising a body having a central chamber open at one end, a closure member for closing the opening of the chamber, a plurality of milker hose nipples in communication with the chamber and projecting radially outwardly from the body, a first pair of teat cup connections on said body, said first pair of teat cup connections including first and second teat cup connections extending at a substantially right angle direction with respect to each other, a second pair of teat cup connections on said body, said second pair of teat cup connections including first and second teat cup connections extending at a substantially right angle direction with respect to each other, the first teat cup connections extending substantially in parallel relation, the second teat cup connections being diametrically opposed with respect to each other, a pair of vacuum and air connections on the body, the vacuum and air connections being positioned in diametrically opposed relation with respect to the first teat cup connections, first and second conduit means in said body, one conduit means providing communication between the first pair of teat cup connections and one of the vacuum and air connections, and a second conduit means providing communication between the second pair of teat cup connections and the other vacuum and air connection, said body having an axially extending bore, said bore having an opening adapted to communicate with the atmosphere and an opening adapted to communicate with the chamber, and a resilient plug normally contained in said bore during the milking operation, said plug being removable and said bore having portions thereof intersecting said first and second conduit means whereby all of said conduit means, said teat cup connections, vacuum and air connections and said chamber are in communication.

2,651,291
STOCK FEEDER
Olin D. Duke, Guymon, Okla.
Application November 14, 1947, Serial No. 786,120
3 Claims. (Cl. 119—54)



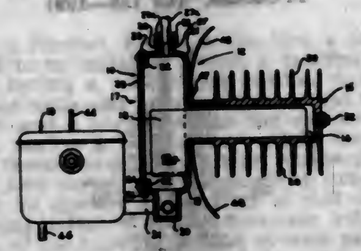
1. A tongue-driven stock feeder comprising a hopper for granular minerals, a tongue-driven roller having mineral retaining pockets formed in its surface positioned beneath said hopper and free from direct contact with the feed in said hopper, a valve in the bottom of said hopper, actuated by rocking said roller for dispensing minerals from the bottom of said hopper and a condition for directing the dispensed minerals to and in contact with said roller.

2,651,292
PNEUMATIC CYLINDER HAMMER AND CONTROL THEREFOR
Walter V. Cornett, Los Angeles, Calif.
Application January 25, 1952, Serial No. 268,318
16 Claims. (Cl. 121—33)



1. In a device of the character described, in combination, a pneumatic power cylinder having therein a double-acting reciprocable piston, a piston rod attached to said piston, a working head on said rod and adapted to hold an impact tool, said cylinder having upper and lower conduits for admitting compressed air alternately above and below said piston whereby said piston, rod, head and tool may be reciprocated, a source of compressed air, a main valve movable between two positions to open said source alternately to said upper and lower conduits of said power cylinder, a first and a second pneumatic actuator alternately operable to move said main valve to said first and second positions respectively, a pilot valve member movable in one direction to direct compressed air from said source to said first actuator and movable in the opposite direction to direct said compressed air to said second actuator, a pneumatic pilot cylinder and piston adapted to move said pilot valve member in said first direction, a trip valve mounted adjacent said power cylinder and operatively connected between said source and said pilot cylinder to direct compressed air thereto, means on said working head to operate said trip valve, and spring means to move said pilot valve member in said opposite direction.

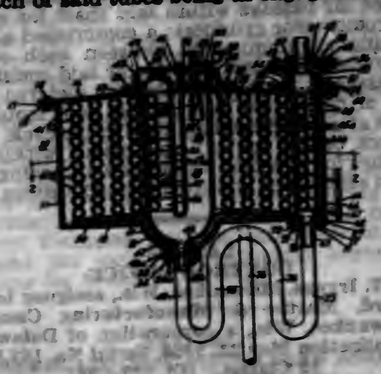
2,651,293
HUMIDIFIER BOILER
Edward W. Bottum, Detroit, Mich., assignor to Skuttle Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application March 16, 1949, Serial No. 81,809
10 Claims. (Cl. 122—20)



1. A vaporizing apparatus for maintaining a desired vapor content in a gaseous medium, comprising a heat exchanger adapted to extend within a heated portion of a heating unit and having a closed vaporizing chamber therein disposed within the heated portion of the heating unit and provided with a vapor discharge port communicating with the gaseous medium exteriorly of the heated portion of the heating unit, a liquid reservoir mounted exteriorly of the heated portion of the heating unit and adapted to contain a volatile liquid, an absorbent liquid metering member having a portion immersed in the liquid in said reservoir and another portion extending into said vaporizing chamber to meter the liquid from said reservoir at a rate substantially proportional to the rate of evaporation of the liquid from the portion of said member extending into the vaporizing chamber of said heat exchanger, and means to prevent the accumulation of liquid in said vaporizing chamber in excess of the liquid retained by said absorbent metering member.

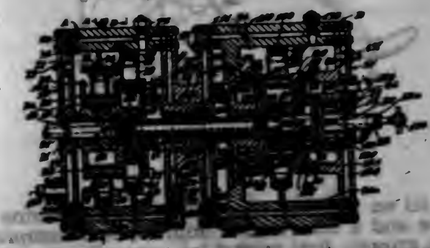
2,651,294
FLUID HEATER
Robert Jackson Horne, Jenkintown, Pa.
Application August 16, 1951, Serial No. 242,145
7 Claims. (Cl. 122—136)

1. A fluid heater comprising a closed casing having a fluid inlet and a fluid outlet, a combustion chamber centrally disposed in said casing, a burner at one end of said combustion chamber having fuel and air delivery connections for the delivery of air and fluent fuel under pressure, a first manifold in said casing in communication with said combustion chamber, a second manifold in said casing spaced from said first manifold and having a gas discharge pipe, and a plurality of tubes connecting said manifolds, each of said tubes being of spiral configuration and downwardly pitched toward the outlet end of said tube, and each of said tubes being in engagement with



contiguous tubes above and below to provide a spiral path for the fluid to be heated.

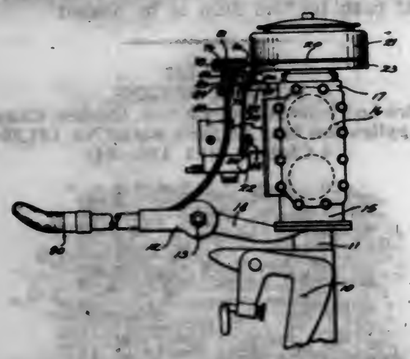
2,651,295
ROTARY ENGINE
André Le Pechoux, Des Chenes, Quebec, Canada
Application May 11, 1950, Serial No. 161,360
4 Claims. (Cl. 123—44)



1. An internal combustion engine comprising casing means defining a compressor housing and a motor housing; a shaft; coaxially aligned bearing means supporting said shaft for rotating substantially centrally within said motor and compressor housings; a motor cylinder block secured to and rotatable with said shaft within said motor housing; a plurality of motor cylinders formed within said motor cylinder block radially to said shaft; piston means for each of said motor cylinders; circular track means eccentric to the axis of said shaft secured to said casing and surrounding said motor cylinders; connector means connected with each of said piston means and provided with roller means arranged to follow said circular track; an exhaust port in each of said motor cylinders so positioned that it is unmasked when the piston is substantially fully withdrawn, said exhaust port communicating with exhaust manifold means; a compressor cylinder block secured to and rotatable with said shaft within said compressor housing; a plurality of compressor cylinders formed in said compressor block radially to said shaft and corresponding in number to said motor cylinders; compressor piston means for each of said compressor cylinders; circular track means eccentric to the axis of said shaft secured to the casing and surrounding said compressor cylinders, the eccentricity of said shaft being substantially opposite to the eccentricity of said circular track means in said motor housing; connector means connected with each of said compressor piston means and provided with roller means arranged to follow said circular track means; air supply passage means formed within said shaft; air inlet port means including non-return valve means

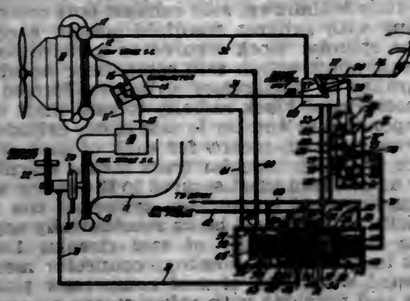
communicating between said compressor cylinders and said air supply passage means; a compressed air passage within said shaft for each of said compressor cylinders; a compressed air port effecting communication between each of said compressor cylinders and one of said compressed air passages; means for injecting metered quantities of diesel fuel into each of said motor cylinders at a predetermined time in the cycle of operations of the motor; and means within said housings for effecting lubrication of moving parts within said motor and compressor housings.

2,651,296
CONTROL DEVICE
Finn T. Irgens, Milwaukee, Wis., assignor to Outboard, Marine & Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application May 22, 1950, Serial No. 163,523
10 Claims. (Cl. 123—96)



1. In an internal combustion engine having a frame and a control, the improvement comprising a gripper, first means for normally engaging the gripper with the control and frame for interlocking said frame and control against relative movement therebetween, an actuator for moving the control respecting the frame, and second means actuated by initial movement of the actuator for releasing the gripper prior to movement of the control respecting the frame.

2,651,297
CONTROL FOR INTERNAL-COMBUSTION ENGINES
James Middleton Eastman, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application July 3, 1947, Serial No. 759,547
6 Claims. (Cl. 123—119)



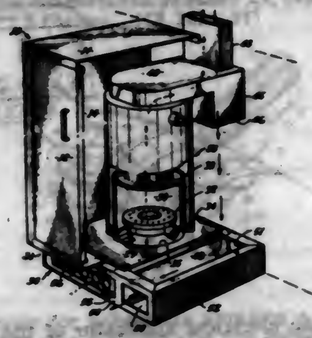
1. For use with an internal combustion engine having a throttle controlled induction passage provided with a supercharger, a carburetor and a hydraulic coupling for transmitting a driving force to said supercharger at variable ratios of engine-to-supercharger speed; a power control device including a flow regulating or metering valve for regulating the flow of fluid to said coupling, means responsive to the drop across the carburetor for adjusting said valve to different flow regulating positions, and an accelerating device responsive to movement of the throttle for accelerating the initial movement of said valve, said regulating valve being provided with reset means including a bleed and said accelerating device being arranged to temporarily by-pass said bleed.

2,651,298
IGNITION APPARATUS AND METHOD OF MAKING SAME
Harry A. Brinson, Sidney, and Thomas G. Brady, Oneonta, N. Y., assignors to Bendix Aviation Corporation, New York, N. Y., a corporation of Delaware
Application December 26, 1947, Serial No. 793,782
14 Claims. (Cl. 123—169)



7. A device of the class described comprising a metallic shell having a bore therethrough, a one-piece rigid tubular insulator in said bore, the inner and outer diameters of said insulator being stepped, the larger portion thereof being at one end and approximately fitting the shell bore and forming a well for receiving a readily removable terminal connector, means for detachably securing said terminal connector to said shell at one end thereof, means for mounting said insulator in said shell comprising a ring of relatively soft metal, such as copper, wedged between a reduced central cylindrical part of said insulator and a tapered portion of the bore of said shell and a fused flux interposed between the surface of said ring and the surfaces of said insulator and shell, the portion of said ring having the greatest wall thickness being remote from said larger portion of the insulator, conducting means having a reduced central portion extending through at least a portion of the bore of said insulator, sealing means around said reduced portion of the conducting means in said reduced central portion of the insulator including two masses, one consisting of a fused mixture of lead oxide and aluminum oxide and the other of a fused mixture of lead oxide and borosilicate glass, and an electrode on the end of said shell remote from said securing means and in spark gap relation with the projecting end of said conducting means.

2,651,299
GAS BURNING HEATER WITH BACKDRAFT DIVERTER
John W. Brown, Jr., Lakewood, Ohio, assignor to Brown Firetube Company, Elyria, Ohio, a corporation of Ohio
Application June 8, 1950, Serial No. 166,915
5 Claims. (Cl. 126—85)



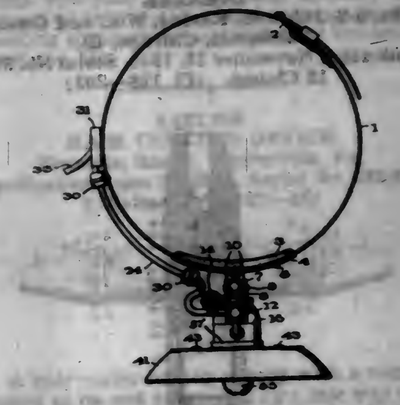
1. In a furnace, boiler or the like, a cabinet adapted to be installed within a building, said cabinet having a hollow base portion, side, top and front walls and an open back, a heat transfer unit and a burner within the cabinet, said cabinet having a passageway within the base portion thereof to provide primary and secondary air for said burner, said passageway extending through an opening in the front of said cabinet and being adapted to communicate with the interior of the building, a hood at least partially within said cabinet, said hood being connected to said heat transfer unit and having a passageway extending through the rear of said cabinet and adapted to conduct flue gases from said heat transfer unit to chimney flue at the rear of said cabinet and having means for connection to a chimney flue, said hood having an opening communicating with the interior of said cabinet and disposed exteriorly of said heat transfer unit to permit the discharge of downdrafts in said chimney within said cabinet, said cabinet having a second passageway in said hollow base portion separate from said passageway for air, said second passageway communicating with an opening in the front of said cabinet adapted to lead to the interior of said building at the front of said cabinet to permit the discharge of downdrafts, said opening for the discharge of downdrafts being separate from the opening of said passageway for primary and secondary air.

2,651,300
ANIMAL MOUTH OPENER
Frederick C. Fehrman, Washington, D. C.
Application November 28, 1951, Serial No. 258,689
1 Claim. (Cl. 128—19)



A device for holding open the mouth of a chinchilla comprising, opposed generally horizontally V-shaped jaws which converge forwardly and receive the head of the chinchilla within them, coil springs connecting the rear ends of the V-shaped jaws to bias them open, a wide substantially flat bite plate disposed inwardly of each V-shaped jaw, each plate being provided centrally thereof with a relatively small opening for snugly receiving the long front teeth of the chinchilla, said plate extending beyond the marginal edges of the opening for substantially a greater distance than the corresponding dimensions of said opening, and means securing each bite plate to the forward reduced end of the adjacent V-shaped jaw, the outer side of each V-shaped jaw extending outwardly beyond its bite plate for forming a lip stop.

2,651,301
HEADLAMP FOR PHYSICIANS AND SURGEONS
William G. Allyn, Auburn, Frederick McK. Scott, Skaneateles, and Ernest H. Greppin, Rochester, N. Y., assignors to Welch Allyn, Inc., Auburn, N. Y., a corporation of New York
Application November 1, 1951, Serial No. 254,277
18 Claims. (Cl. 128—22)

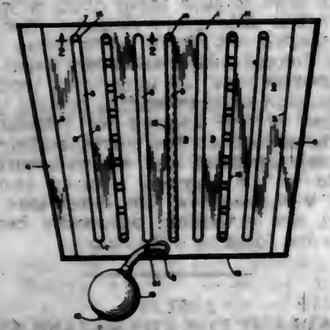


1. In a headlamp for physicians, surgeons and the like, the combination with a headband, of a lamp base, means universally mounting said lamp base on the headband, a radially extended shell carried by said lamp base, said shell including an annular reflector and also including a central partition extending diametrically across the shell, said shell having a sight opening formed therein on each side of said partition, a lamp mounted in said base, an electrical conductor extending into said base and electrically connected with said lamp, and a lens surrounding said lamp, said lens having means for directing light from said lamp axially onto an object to be observed and also having means for directing light from said lamp radially to said reflector, said reflector being disposed so as to reflect the light from the last-mentioned means onto said object.

2,651,302
SURGICAL SPLINT
Charles T. Berry, Greenville, Miss., assignor to Berry and Levy Enterprises, a partnership
Application November 13, 1951, Serial No. 256,089
4 Claims. (Cl. 128—87)

2. A surgical splint, comprising a flexible wrapper of trapezoidal form having thereon a plurality of longitudinally disposed inflatable tubes spaced apart side by side in symmetrical relation

to the inclined sides of the wrapper with non-inflatable strips between them, and a pair of lon-



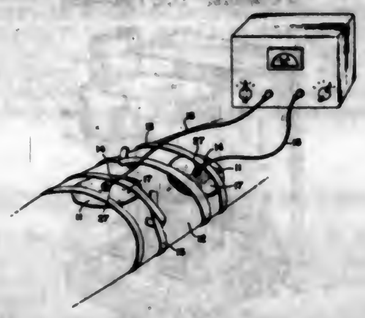
gitudinal rows of lacing hooks on individually separate ones of said strips.

2,651,303
INHALER
Richard S. Johnson, Racine, Wis., and Gustav A. Palmquist, Chicago, Ill.
Application November 13, 1948, Serial No. 59,822
12 Claims. (Cl. 128—203)



1. In a device in which fluid from a cartridge in which the fluid is sealed under pressure is introduced into a body orifice communicating with the trachea, including the combination of a mounting head having a passage therethrough, a cartridge-piercing tube attached to the head and communicating with and projecting from one end of said passage, means to force said tube into said cartridge, a normally closed valve within the passage adjacent the other end thereof, said valve having a valve stem movable in a direction longitudinally of the passage to open the valve, an applicator about at least the portion of the head adjacent to said other end of the passage and movable with respect to said head, said applicator being adapted to be inserted in said orifice and having an opening therethrough communicating between said passage and the portion of the applicator inserted in the orifice, and a pressure member within the opening to contact and move the valve stem to open the valve upon movement of the said applicator by a body member.

2,651,304
THERAPEUTIC ELECTRODE
William J. Browner, San Francisco, Calif., assignor to Relaxacisor-Thermatone, Inc., Los Angeles, Calif., a corporation of California
Application October 19, 1950, Serial No. 191,040
2 Claims. (Cl. 128—417)



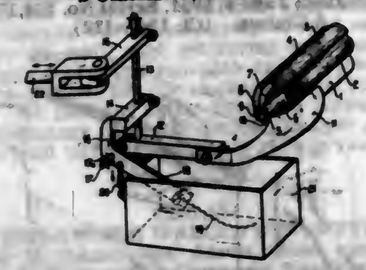
1. In an electrical applicator of the character described, the combination of: an electrode member at least a portion of which is formed of porous material to hold an electrolyte for engagement with a skin area; a holder of flexible material comprising a back wall adapted to extend across the rear portion of said electrode member and a marginal portion integral with said back wall extending outwardly and extending forwardly around the periphery of said electrode member, said marginal portion then extending inwardly so as to form an inwardly extending lip covering the marginal portion of said electrode member, said back wall having a small opening therein; and a contact member comprising a metal plate to lie against said back wall, a post extending from said plate through said opening to the outer face of said back wall, the outer end of said post being larger in cross section than said opening so that force is required to move it through said opening, and means at the outer end of said post for engagement with an electrical conductor.

2,651,305
ROTARY FILING APPARATUS
Bernard Discount, Jamaica, N. Y.
Application June 26, 1950, Serial No. 170,434
2 Claims. (Cl. 129—16)



1. A rotary filing drum having a cylindrical rim and having a pair of card-retaining rails extending annularly thereabout in spaced apart relation, each said rail comprising an inner and an outer element, the inner element having one edge integrally connected to the rim and its other edge integrally connected to an edge of the outer element, said outer element being disposed at an angle with respect to the inner element, said two elements of each rail being disposed in V-shaped angular relationship with respect to a plane perpendicular to the longitudinal axis of said drum, whereby one pair of corresponding elements diverge axially of the drum and the other pair of elements converge axially of the drum, each said rail having a gripping factor of substantially unity.

2,651,306
DEVICE FOR APPLYING A WRAPPER TO A BUNCH OF CIGARILLOS OR CIGARS
Everardus W. C. van Buul, Eindhoven, Netherlands, assignor to N. V. Vereenigde Tabaksindustrieen Mignot & De Block, Eindhoven, Netherlands
Application January 21, 1950, Serial No. 139,851
In the Netherlands January 24, 1949
2 Claims. (Cl. 131—37)



2. A device for adhesively applying a wrapper to the bunch of a cigarillo and like tobacco product; comprising a set of rollers including a forward end and constituting a rolling mechanism for the cigarillo to which said wrapper is to be applied, a guiding member past which the flag of said wrapper is fed to said rolling mechanism, an arm arranged for swinging movement about a vertical axis and operatively coacting with said guiding member, a reservoir for containing an adhesive, said reservoir being positioned adjacent said forward end of said rolling mechanism, an applicator arranged for swinging movement about a horizontal axis and adapted to dip into said reservoir and to transfer adhesive therefrom to said guiding member, and means reciprocably moving said applicator about said horizontal axis and said guiding member about said vertical axis in timed relation to each other so that said applicator is swung out of said reservoir for transfer of adhesive to said guiding member when the latter is moved from a position adjacent said forward end of said rolling mechanism to a position above said reservoir for cooperation with said applicator.

2,651,307
TOBACCO PIPE BOWL
Robert O. Ferguson, Bristol, Tenn., assignor of one-half to Bristol Steel & Iron Works, Inc., Bristol, Va.-Tenn., a corporation of Virginia; James R. Ferguson, administrator of said Robert O. Ferguson, deceased
Application August 25, 1947, Serial No. 770,444
2 Claims. (Cl. 131—195)



1. In a smoking pipe having an upper bowl portion and a lower bowl portion provided with a smoke cooling and filtering chamber and adapted to be detachably secured to said upper bowl portion, comprising a base, a tobacco chamber above said base, a smoke passageway in said base extending downwardly from said tobacco chamber and adapted to communicate with said chamber of the lower portion when said portions are secured and means adapted to cool said pipe, said means including a pair of parallel substantially horizontal passageways extending through said upper portion and having openings on substantially opposite sides thereof, and a second pair of parallel substantially horizontal passageways extending through said upper portion and at right angles to said first-named pair of passageways and having openings on substantially opposite sides of said upper portion.

2,651,308
ATTACHMENT FOR PIPE BITS
Frank H. Mariand, New Bedford, Mass., assignor of one-half to Robert F. Mariand, North Dartmouth, Mass.
Application August 7, 1950, Serial No. 178,661
7 Claims. (Cl. 131—238)



5. In a pipe bit, a member underlying the bit and having a concave surface held against the undersurface of the bit, said member extending transversely of the bit and having inturned end portions overlying the bit, said member being composed of two sections, and means adjustably connecting the sections and clamping the sections against the bit.

2,651,309
HAIR CURLING DEVICE
Franklin Kemp, Wesleyville, Pa.
Application June 20, 1951, Serial No. 232,621
2 Claims. (Cl. 132—34)



1. A hair curler having a body with a rotatable mandrel at its end connected by a one way clutch to a rotatable shaft within the body, the shaft having on it a torsion spring resisting its rotation, said shaft also having a drum about which is wound one end of a cord the other end of the cord attached to a lever mounted on the body, depression of the lever causing unwinding of the cord from the drum with resultant rotation of the shaft, the torsion of said spring returning the shaft to original position after each depression and release of the lever, and the one way clutch connection causing a step by step rotation of the mandrel.

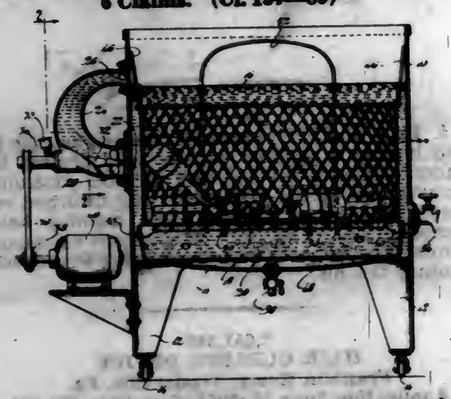
2,651,310
HEAD CONFORMING MOUNTING FOR ADJUSTABLY POSITIONABLE HAIR PIECES
Elsner V. Selsen, Hollywood, Calif.
Application September 5, 1952, Serial No. 307,993
2 Claims. (Cl. 132—46)



1. Hair dress beautifier comprising a head enveloping net, a band of substantial material bor-

dering said net adapted to extend circumferentially about the head, sets of fastening elements displaced circumferentially about said band, and hair pieces having complementary sets of fastening elements adapted to be selectively secured, singly or in plurality to said band at various circumferential positions.

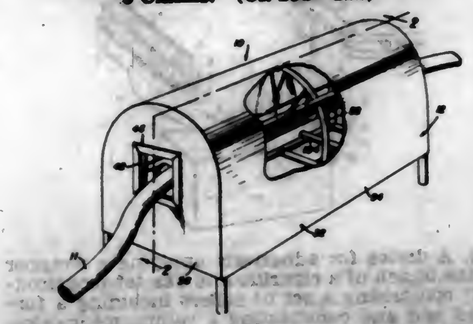
2,651,311
CLEANING APPARATUS WITH LUBRICATOR THEREFOR
Joseph D. Rule, Kewanee, Ill., assignor to Kewanee Industrial Washer Corp., Kewanee, Ill., a corporation of Illinois
Application October 24, 1945, Serial No. 624,203
6 Claims. (Cl. 134—89)



1. A cleaning apparatus comprising a tank, a reticulated support for articles to be cleaned removably disposed in said tank, said tank being adapted to contain a supply of cleaning fluid extending from the bottom of the tank to a substantial distance above the said support, said tank having an outlet for the fluid in a vertical wall and below the normal fluid level and an inlet for said fluid in the same wall at a higher level than said outlet, a housing mounted exteriorly of the tank and providing a smoothly curved passageway connecting the inlet with the outlet, an impeller mounted for rotation in said passageway adjacent said outlet, and means for rotating said impeller in a direction and at a speed to draw fluid through said outlet, to elevate said fluid through the passageway, and to discharge it forcibly through said inlet into the tank, together with a drain tank mounted adjacent the first-mentioned tank and dimensioned to receive the reticulated support, a supply conduit for rinsing fluid adjacent the drain tank with a spray device connected thereto, a constantly open outlet leading from said tank, and a heater disposed under the first-mentioned tank for maintaining the cleaning fluid therein at high temperature.

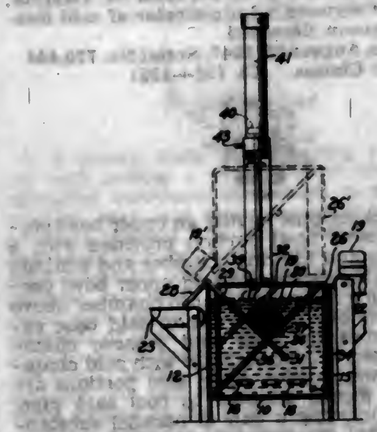
3. In apparatus of the class described, a tank, a housing mounted on said tank and providing a passage having an intake opening of circular cross section at one end and a delivery opening at the other end, a rotary impeller mounted in said intake opening, said housing having an opening in its wall opposite said intake opening and co-axial therewith, a bearing sleeve extending through said last mentioned opening in fluid-tight relation to said wall, and a drive shaft for the impeller journalled in said sleeve, the sleeve having bearing portions adjacent its end in which the shaft is rotatably fitted and having an enlarged bore intermediate said bearing portions, together with means for filling said bore with lubricant, a pulley on said drive shaft and a belt for driving said pulley, the delivery end of said housing being remote from said drive shaft and serving as a brace to resist pull exerted thereon by said belt.

2,651,312
WASHER FOR FIRE HOSES
Charles M. McBeth, Walla Walla, Wash.
Application June 6, 1951, Serial No. 230,172
3 Claims. (Cl. 134—122)



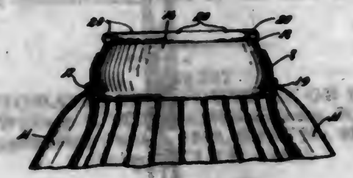
3. A fire hose washing apparatus comprising a housing having openings formed in the ends thereof, guide means carried by said housing for guiding a fire hose therethrough, a fluid supply conduit extending from said housing for connection to a source of fluid supply, and spray means connected to said conduit and concentrically disposed about said guide means for directing fluid spray against the hose, said spray means including a plurality of circular spray pipes disposed in spaced parallel planes perpendicular to the line of travel of the hose through said housing, a common supply pipe interconnecting said circular spray pipes, said supply pipe being connected to said supply conduit, the end pipes of said circular spray pipes having apertures formed therein for directing the fluid spray in conical streams against the hose.

2,651,313
SHRINKING MACHINE
Owe M. Teennies, Cincinnati, Ohio, assignor to The E. Kahn's Sons Company, Cincinnati, Ohio, a corporation of Ohio
Application March 3, 1952, Serial No. 274,639
5 Claims. (Cl. 134—123)



1. A machine for shrinking a wrapper which is shrinkable in a liquid around a package, said machine comprising an open-topped tank containing a liquid in which said wrapper is shrinkable, a movable rack having an openwork platform mounted for vertical reciprocation in the tank, said platform sloping downwardly from a location adjacent one wall of the tank toward the opposite wall when in the tank, the lower edge of said platform being slightly above said opposite wall when raised, and a stationary rack having an openwork platform extending from said opposite wall downwardly toward said first mentioned wall, said platforms crossing inside the tank when the movable rack is lowered to form a support for the package below the liquid level, the package being propelled upwardly on the stationary rack and discharged over said opposite wall when the movable rack is raised.

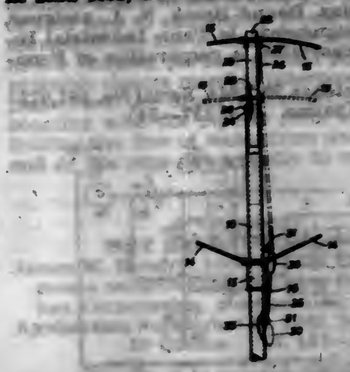
2,651,314
INFLATABLE WALLED STRUCTURE
Victor H. Hasselquist, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application April 1, 1950, Serial No. 153,415
10 Claims. (Cl. 135—1)



1. An inflatable walled structure having a wall comprising pliable material providing a plurality of inflatable pockets each having an inflation entrance, means connecting said inflation entrances for simultaneous inflation, a backing for said pockets adjacent said entrances, and means for clamping said pockets upon said backing to seal said pockets collectively, the clamping means comprising resilient material for disposition across said pockets adjacent said entrances to apply the clamping pressure resiliently against said pockets as a group.

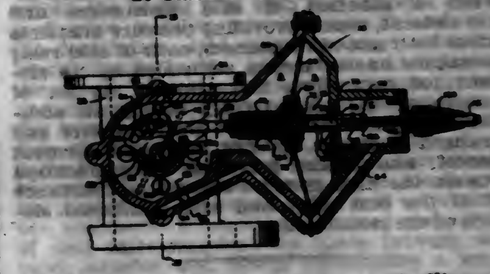
2,651,315
UMBRELLA
James C. Witty, Troy, Ohio, assignor to The Troy Sunshade Company, Troy, Ohio, a corporation of Ohio
Application June 28, 1950, Serial No. 170,819
1 Claim. (Cl. 135—20)

An umbrella structure for beach and garden umbrellas and the like to facilitate raising and collapsing of the top thereof while the umbrella is erect, comprising a hollow standard, an extension mounted for telescoping movement within the upper end of said standard, cooperating pin and slot means on said standard and said extension for guiding and limiting the relative telescoping movement thereof, a top including a canopy and ribs carried by the upper end of said extension, braces attached to said ribs, a runner connected with said braces and slidable upwardly on said standard below said extension to effect expansion of said top and movement of said top and extension to the uppermost position thereof for minimizing the development of tension in said ribs, means depending from said extension for pulling the same downwardly to develop tension in said ribs, and means for releasably securing



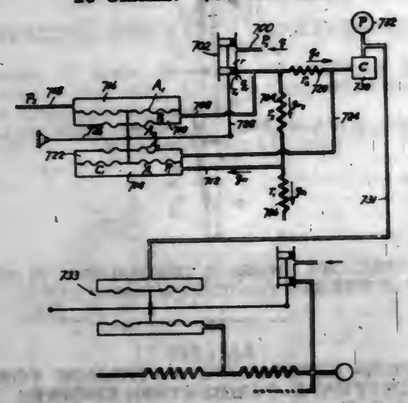
said depending means to said standard to retain said top with said ribs under tension.

2,651,316
SPEED RESPONSIVE GOVERNOR FOR INTERNAL-COMBUSTION ENGINES
Robley D. Fageol, Detroit, Mich., assignor to R. D. Fageol Company, Detroit, Mich., a corporation of Michigan
Application April 12, 1949, Serial No. 86,980
10 Claims. (Cl. 137—87)



2. In a governing device for controlling the throttle of an internal combustion engine, a suction device including a controlling member adapted for connection with said throttle and an apertured diaphragm exposed on one side to atmosphere and connected to said controlling member and operable upon energization of said device for moving said controlling member in one direction toward its governing position, speed responsive means operable for controlling the energization of said suction device, a valve member within said suction device having a positive two-way connection with said speed responsive device so that upon movement of said valve member in said one direction relative to said diaphragm suction will be admitted to said suction device on the other side of said diaphragm and said valve member will cooperate with said diaphragm to close the aperture therein thereby to energize said suction device, said valve member being movable in the opposite direction relative to said diaphragm to open the aperture therein so as to deenergize said suction device and upon continued joint movement of said diaphragm and valve member in the same direction to shut off the suction to said other side of the diaphragm, said valve member being free for movement within limits by said speed responsive device without opposition relative to said diaphragm, the position of said valve member determining the position of said diaphragm.

2,651,317
PRESSURE MODULATING RELAY
Winfield B. Heinz, Bound Brook, N. J., assignor, by mesne assignments, to Penn Industrial Instrument Corporation, a corporation of Pennsylvania
Application October 30, 1944, Serial No. 561,073
16 Claims. (Cl. 137—84)



1. In combination, a pair of relay assemblies each comprising at least two fluid resistances arranged in series, an element responsive to fluid pressure and means providing communication between a junction of said resistances and said element, means providing pressure gradients across both sets of resistances, each of said relay assemblies having means controlled by its element for controlling flow through its set of resistances, the second relay having an additional element responsive to fluid pressure and arranged to oppose the first mentioned element thereof, and means providing communication between the high pressure end of the resistance set of the first relay and said additional element of the second relay.

2,651,318
FLUSHING UNIT
Herbert B. Cates, Fouke, Ark.
Application August 11, 1947, Serial No. 767,931
9 Claims. (Cl. 137—132)



1. A flushing unit comprising a vertically disposed tank adapted to be filled with a fluid, an outlet pipe for said tank, a lid removably mounted on said tank carrying an inlet pipe, a float controlled switch supported by said lid and operative in accordance with the fluid level in said tank, and means for removing fluid from said tank at successive intervals for changing the level of fluid in said tank and changing the position of said float controlled switch and pumping mechanism controlled by said switch for pumping fluid into said tank.

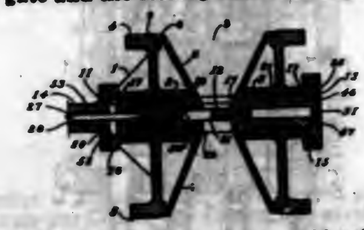
2,651,319
GAS LIFT VALVE
Leslie L. Cummings, Houston, Tex., assignor to Cummings, Inc., Houston, Tex., a corporation of Texas
Application July 18, 1949, Serial No. 105,279
9 Claims. (Cl. 137—155)



1. In a valve of the character described, a hollow casing having openings intermediate the ends thereof, a valve seat in said casing above said openings, a valve stem extending through said seat, a valve element mounted on said stem above said seat, a resilient compression means connected to said stem above said seat, a resilient tension means connected to said stem below said seat, the forces of both said means being thereby combined to exert a predetermined closing pressure on said valve element, and clutch means engaged with said stem and operative at predetermined pressures above and below said closing pressure to release said stem for movement respectively in the valve-opening and closing directions.

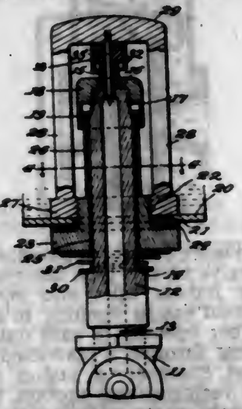
2,651,320
GATE VALVE
William T. Hirsch, Havertown, and Ernest R. Roth, Norwood, Pa., assignors to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 31, 1949, Serial No. 84,496
10 Claims. (Cl. 137—246)

1. In a valve, a valve body having an opening through which flows the fluid to be controlled, and a control member removably secured within the valve body said control member comprising a gate enclosing and seating member provided with seating surfaces and an aperture in registering relationship with said opening, each of said seating surfaces having formed therein a groove completely surrounding said aperture, a valve gate mounted for slidable movement in said enclosing and seating means and adapted for seating on said seating surfaces, a plurality of orifices formed in said enclosing and seating member about said aperture, each of said orifices communicating at one of its ends with the groove in one of said seating surfaces, first passage means formed in the gate enclosing and seating member and communicating with said orifices for continuously passing aeration fluid through the grooves formed in the seating surfaces and thence between the surfaces of the valve gate and the seating surfaces, longitudinal-



ly extending grooves provided in said valve gate, and second passage means associated with said longitudinally extending grooves for continuously introducing aeration fluid through said longitudinally extending grooves and thence between the surfaces of said valve gate and the seating surfaces whereby the surfaces are maintained substantially free of the first mentioned fluid.

2,651,321
AUTOMATIC BIRD FOUNTAIN OR BATH
William E. McBride, Woodstown, N. J.
Application June 9, 1949, Serial No. 98,135
1 Claim. (Cl. 137—408)



In an automatic drinking fountain, a shallow pan having a bottom and a centrally disposed opening in said bottom, a tubular and externally threaded stud extending upwardly through said opening and having a circumferential flange on its lower end, a packing washer interposed between said bottom and said flange, a base member screwed on said stud against the bottom of the pan, a tubular sleeve forming an upwardly extending prolongation of the stud and terminating in the plane of the top edge of the pan, a water supply pipe extending upwardly through said stud and sleeve, said pipe having an upwardly facing shoulder at its lower end, and having a body fitting loosely in the stud and sleeve, a coiled compression spring surrounding said body between said shoulder and flange, said pipe having a reduced and threaded upper end extending above said sleeve and having a further reduced tubular extremity, a cap screwed on the pipe and having a depending apron extending loosely around the upper end of the sleeve, a pair of legs extending upwardly from said base member and extending over the reduced portion of said pipe to completely frame said pipe, a pin carried by the top of the frame and fitting loosely in the reduced portion of said pipe, and a compressible closure member interposed between said frame and the upper extremity of the pipe and coacting with the pipe to form a valve for controlling the flow of water from the reduced upper end of the pipe downwardly to said pan.

2,651,322
DRY BACKFIRE ARRESTER
James M. Hendry, Indianapolis, Ind., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application September 10, 1949, Serial No. 115,048
19 Claims. (Cl. 137—525)

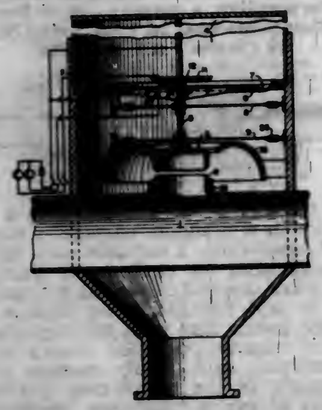


18. A backfire arrester comprising a foundation in which is a supply passage, a casing outside said foundation, a movable valve member of resilient material for closing said passage to a backfire wave, one end of the valve member being secured to said foundation for seating thereon within the casing and with the opposite end of said valve member movable toward and from the foundation, said supply passage extending longitudinally in the foundation and being for the supply of gas, a transverse passage in said foundation leading from said supply passage to the outside of said foundation but to the inner side of said valve member, the supply of gas being from the transverse passage longitudinally between the foundation and valve member to the opposite or unsecured end of said valve member, and thence around the unsecured end portion of said valve member, the space between said valve member and casing constituting a longitudinal outlet passage leading to a transverse outlet passage beyond the place where the valve member is secured to said foundation, the space within the casing between it and the valve member being closed beyond the unsecured end of said valve member, the opposite end of the same space, namely that beyond the secured end of said valve member being closed against leakage of gas to the atmosphere, whereby a backfire pressure wave entering said casing through said outlet passage may move along the outer surface of said valve member pressing it against the foundation and closing at least some of said supply passage between the foundation and the inner surface of said valve member to movement of a backfire pressure wave therethrough.

2,651,323
PRESSURE REGULATOR
Paul Angles d'Auriac, Grenoble, France, assignor to Ateliers Neyret-Beylier & Piccard-Pictet, Grenoble, France, a corporation of the Republic of France
Application February 5, 1948, Serial No. 6,440
In France November 15, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires November 15, 1965
7 Claims. (Cl. 137—528)

1. A valve for regulating the pressure of a fluid in a container at a substantially constant

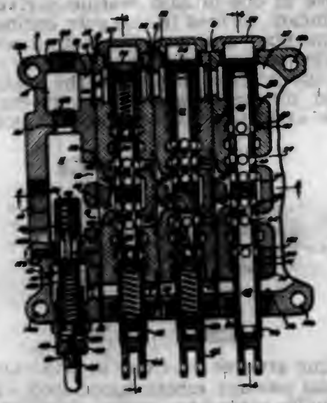
value, comprising a cylindrical nozzle in fluid communication with said container to discharge fluid therefrom, a movable cup-shaped cylindrical obturator aligned with said nozzle in the path of a jet of fluid issuing from said nozzle, said nozzle and obturator having the same external diameter, means defining a closed chamber aligned with said obturator, said chamber defining means including a flexible diaphragm adjacent said obturator, and a stem connecting said diaphragm and said obturator, said chamber being completely filled with a gas at a pressure greater than the pressure of the fluid on the outside of said diaphragm so that the force acting on the diaphragm due to the difference



between said pressures balances the force acting on the obturator due to the pressure of the fluid in said container when said last-mentioned pressure is at said substantially constant value determined by the diaphragm area, the obturator area, and said pressure difference, said chamber having a large volume so that movement of the diaphragm causes only slight variations in the pressure in said chamber, the pressure in said chamber being substantially the only biasing force opposing opening movement of the obturator by the jet, means guiding said obturator for movement toward and away from the nozzle, and a ring encircling said nozzle and slidable thereon toward said obturator to check the concentricity of the nozzle and obturator.

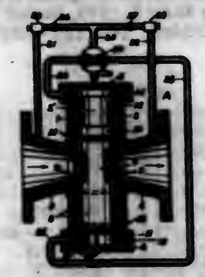
2,651,324
MULTIPLE CONTROL VALVE
Robert F. Hodgson, Chagrin Falls, and William C. Dolch, Willoughby, Ohio, assignors, by mesne assignments, to The New York Air Brake Company, New York, N. Y., a corporation of New Jersey
Application November 1, 1949, Serial No. 124,306
16 Claims. (Cl. 137—621)

10. A control valve unit comprising a body with a bore therethrough and a valve member slidable in the bore from a neutral position to either of two operating positions, the bore being formed with enlargements providing fluid chambers, the chambers comprising in order longitudinally of the bore two auxiliary chambers, a service chamber, an outlet chamber, an inlet chamber, an outlet chamber, a service chamber, and two auxiliary chambers, the body having a fluid inlet connected to the inlet chamber, a fluid outlet connected to the outlet chambers, and



service ports for connection to a motor communicating with the service chambers.

2,651,325
VALVE CONTROL MECHANISM
Joseph T. Lusignan, Jr., Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application August 14, 1947, Serial No. 768,553
6 Claims. (Cl. 137—653)

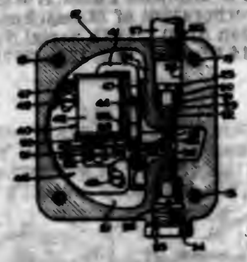


1. Fluid pressure control apparatus for use with a pipe line valve of the type described comprising a casing having inlet and outlet ports, a chamber in said casing opening to said ports, a second chamber opening to said outlet port and communicating through a restricted passageway with the first chamber, a piston in said first chamber for reciprocating motion to open and close one of said ports, a bellows in the second chamber having an open end surrounding and sealing said passageway from the second chamber, and spring means associated with the bellows to resiliently oppose expansion of said bellows and motion of the piston under fluid pressure surges to open one of said ports.

2,651,326
DIAPHRAGM VALVE HAVING AN ADJUSTABLY MOUNTED PIVOTED PILOT VALVE
William A. Ray, North Hollywood, Calif., assignor to General Controls Co., a corporation of California
Application January 23, 1950, Serial No. 139,990
13 Claims. (Cl. 137—627)

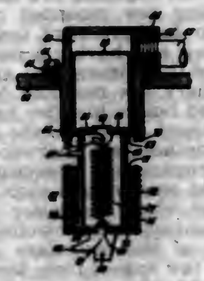
9. In a valve structure: a jet having an opening for the passage of a gaseous medium; a member for opening and closing the jet; means providing a pivotal support for said member, the

axis of the pivot being normal to but displaced from the axis of the jet opening; and a bracket for the pivotal support; a pin about which the



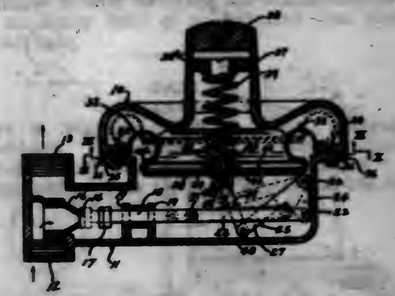
bracket is angularly adjustable; said pin having an axis parallel to the axis of the pivot and adjacent the jet opening.

2,651,327
LIQUID FILLED EXPANSIBLE CHAMBER
Thomas E. Larkin, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 30, 1946, Serial No. 658,528
1 Claim. (Cl. 137—781)



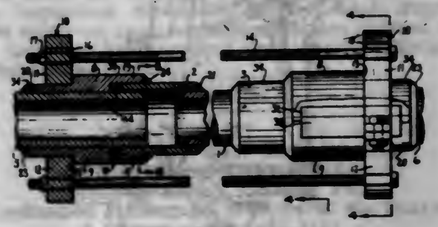
A pressure-responsive device comprising a housing defining a chamber opening through one end thereof, a flexible wall member in the chamber and having an edge portion secured to the housing around said opening, the flexible member dividing the chamber so as to define separate first and second chamber portions, the wall of the housing defining a second opening arranged to communicate a control pressure to the first chamber portion, and a flexible bellows assembly secured to the housing around the first opening, said assembly comprising a first cylindrical member having a flange at one end for securing the assembly to the housing and a second flange at the other end, a bellows with one end sealed to the second flange and the other end sealed to a movable end member adapted to engage a member to be positioned by the device, a wall forming a partition separating the second chamber portion from the interior of the bellows assembly and having at least one orifice providing a restricted passage communicating therebetween, and a second cylindrical member arranged within and secured to the first cylindrical member, said second cylindrical member projecting into the bellows and having an end portion adapted to serve as a stop defining the fully retracted position of the movable member, the bellows assembly and the second chamber portion being completely filled with a gas-free liquid of good tensile strength and substantially zero vapor pressure.

2,651,328
DIAPHRAGM FOR PRESSURE RESPONSIVE APPARATUS AND THE LIKE AND PRESSURE RESPONSIVE DEVICE EMBODYING THE SAME
Charles R. Gamble, Birmingham, Ala.
Application February 16, 1950, Serial No. 144,482
15 Claims. (Cl. 137—788)



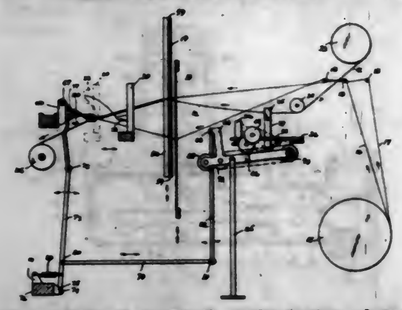
1. In a diaphragm for use in fluid pressure devices embodying a body of flexible material having a movable pressure responsive central portion and a peripherally disposed flange adapted to be clamped between housing members and the like, the combination of a plurality of hollow cylinder-like portions formed in the body and connected fluid tight along the termini of their inner and outer sides to the edges of the central portion and adjacent flanges respectively, the interior of said cylinder-like portions being in communication with the working pressure side of the diaphragm and projecting above the plane of the flanges, and portions projecting above the plane of the flanges connecting the ends of the cylinder-like portions to said central portion and flanges.

2,651,329
REPAIR CLAMP STRUCTURE AND METHOD
James G. Fowler, Jr., Alice, Tex.
Application May 12, 1949, Serial No. 93,043
8 Claims. (Cl. 138—97)



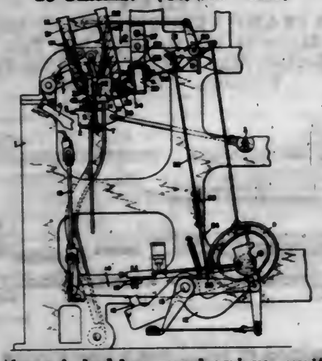
1. A method of repairing a line having a leaky section therein, comprising the steps of, removing the leaky section from the line, fitting seals around the parts of the line adjacent the interrupted section, inserting a repair section in place of the leaky section having ends to overextend the line end adjacent thereto, placing a pair of semi-tubular welding segments around each end of the line on the side of the seal opposite the interruption to form a sleeve abutting the seal, drawing the sleeves together to compress the seals and to overextend the seal and the repair section at each end of the repair section, welding the outer ends of each pair of welding segments to the line, welding the inner ends of each pair of welding segments to the repair section, and axially welding together the segments of each pair of welding segments.

2,651,230
DEVICE AND METHOD FOR WEAVING A SPIRAL SLIDE FASTENER TO A NARROW FABRIC SIMULTANEOUSLY WITH THE WEAVING OF THE FABRIC
Franz C. Mesterts, Philadelphia, Pa.
Application March 1, 1951, Serial No. 213,434
16 Claims. (Cl. 139—11)



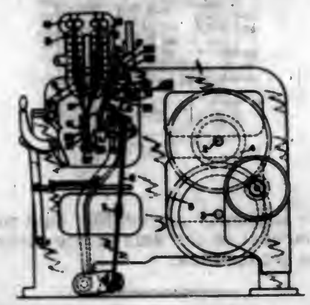
1. An apparatus of the character described comprising, a loom for weaving a tape and including means for moving warp threads to a shed, a spiral fastener stringer moved co-extensively with the warp threads to the shed, means for moving said spiral stringer comprising a guide sleeve provided with an aperture, and a rotative toothed element operative through said aperture and engaging the convolutions of the spiral stringer to move said spiral stringer axially toward the shed of the tape in which it is woven.

2,651,231
MOVABLE THREAD HOLDER FOR LOOMS
Richard G. Turner, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application January 25, 1952, Serial No. 268,185
15 Claims. (Cl. 139—247)



1. A thread holder mechanism unit for the reserve bobbin weft ends of a weft replenishing loom comprising a support for attachment to the loom, a carrier mounted on the support for movement relative thereto in opposite directions, a thread holder mounted on the carrier comprising a thread clamping member fixed with respect to the carrier and a second thread clamping member movable toward and from the first member, and a controller for the second member operatively connected to the latter and to said support effective due to movement of the carrier in one direction with respect to said support to move the second member toward the first member and effective due to movement of the carrier in the opposite direction with respect to the support to move said second member away from the first member.

2,651,232
THREAD HOLDER FOR LOOMS
Richard G. Turner, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application April 1, 1952, Serial No. 279,738
14 Claims. (Cl. 139—257)



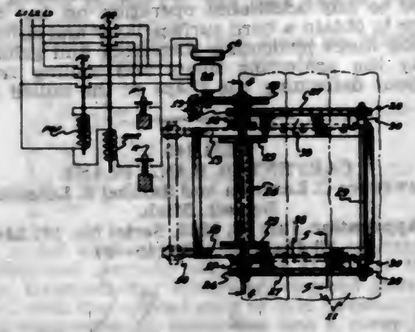
1. In thread holder mechanism for the weft ends of a weft replenishing loom, a stop forming part of the thread holder mechanism, a weft end thread holder member which on a weft replenishing beat of the loom moves to a rearward position and thereafter moves to a forward position, said thread holder member comprising a primary thread engaging jaw and a secondary thread engaging jaw mounted on the thread holder member for movement toward and from the primary jaw and having a normal tendency to move toward the primary jaw, and a controller for the secondary jaw mounted on and moving with the thread holder member having one part thereof operatively related to the secondary jaw and having another part rearward of said stop for abutting engagement therewith, said other part being held against said stop by the thread holder member when the latter is in forward position and causing said controller to overpower said tendency of the secondary jaw and hold the secondary jaw spaced from the primary jaw, and said thread holder when moving to the rearward position thereof moving said other part of the controller away from said stop and said secondary jaw due to said tendency thereupon moving toward the primary jaw.

2,651,233
WORKTABLE FIXTURE FOR PORTABLE MOTOR-DRIVEN SAWS
Chester L. Spinney, Barre, Mass.
Application April 12, 1950, Serial No. 155,414
4 Claims. (Cl. 143—6)



4. A worktable attachment comprising in combination, a clamp for engaging a worktable and providing a guide member extending along one side of the worktable and projecting above the surface thereof, a member extending across the worktable and hinged to said guide member to permit the positioning of a workpiece on top of said worktable, with one edge thereof in engagement with said guide member, when said hinged member is swung upwardly, a second guide member having a straight-edge for guiding a portable motor driven saw, said second guide member being pivotally mounted to turn about a vertical axis on said hinged member so as to extend across the workpiece, and means for clamping said second guide member at a predetermined angle in a horizontal plane with respect to said first guide member.

2,651,234
SPOOL-AND-CHAIN LOG STOP AND KICKER
Wiley T. Stockett, Jr., Woodruff, Ariz.
Application January 28, 1952, Serial No. 268,411
6 Claims. (Cl. 142—95)



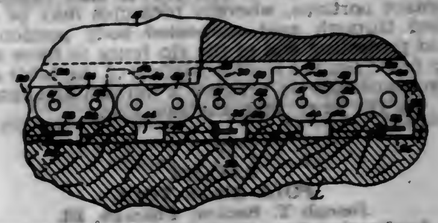
1. A log stop and kicker mechanism including a frame, a main shaft journaled in said frame, a log stop and kicker spool journaled on said shaft for independent rotation thereon, a plurality of sprockets fixed on said shaft, a plurality of log supporting and moving chains operating over said sprockets, idler sprocket means at the opposite ends of said chains journaled on said frame, and supporting means for the intermediate portions of said chains facing upwardly between said main shaft and said idler sprockets to carry logs placed on said chains to and from engaging position with said spool, and power means for driving said main shaft.

2,651,235
LOG SAWMILL FOR SMALL DIMENSION TIMBER
Irving Stagg, Wayne, Mich.
Application March 31, 1952, Serial No. 279,562
2 Claims. (Cl. 143—105)



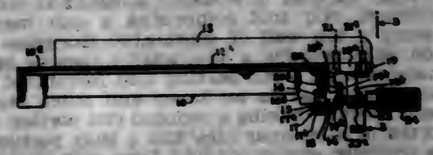
1. A log saw mill for cutting small dimension timber comprising a rigid frame having spaced top and bottom horizontal rails mounted thereon to extend parallel to each other in a vertical plane, a carriage formed by a rectangular open frame having top and bottom rails travelingly engaging the corresponding rails of said rigid frame, vertical end rails and an intermediate vertical rail adjustably engaging said top and bottom carriage rails, said intermediate rail and one of said end rails having sharp dogs thereon for centrally engaging opposite ends of a log, the transverse dimension of all parts of said carriage within the vertical limit of the opening in its frame being less than four inches and being held by said rigid frame in a fixed plane, an arbor extending transversely beneath said carriage mounted on said rigid frame, a pair of circular saws mounted on said arbor on opposite sides of said carriage, means for reciprocating said carriage to carry the log past said saws, and means for adjusting said saws on said arbor to positions equally spaced on opposite sides of the central plane of said carriage for simultaneous cuts with an inner limit of adjustment just clearing the carriage.

2,651,236
CHAIN SAW
Henry E. Warren, Ashland, Mass., assignor to Lombard Governor Corporation, Ashland, Mass., a corporation of Massachusetts
Application July 11, 1947, Serial No. 760,237
3 Claims. (Cl. 143—135)



1. In a chain saw, an endless series of central links having pendent legs, connector links pivotally connecting the central links, the legs of some of the central links carrying single chisel-like bits providing cutter teeth formed to cut with a paring action along a substantially horizontal surface, the legs of the other central links each constituted as a raker, said toothed links alternating with said raker links in the central series, the cutter teeth of alternate toothed links being positionally differentiated in the vertical and in the horizontal direction transverse of the kerf so as to cut different bottom portions thereof, and a depth guard for each cutter-toothed link, such guard for the given tooth being directly associated therewith and being shaped, dimensioned and arranged as to both the vertical and horizontal directions so that such guard rides solely on that horizontal surface formed in the kerf by the precedent positionally differentiated cutter tooth.

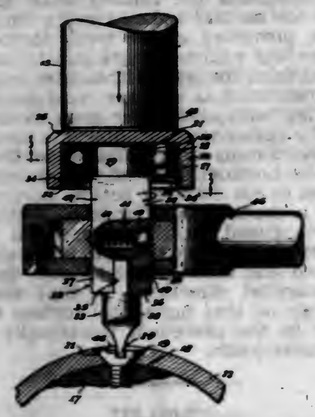
2,651,237
RIP FENCE FOR SAW TABLES AND MOUNTINGS THEREFOR
Abraham Pollak, Linfield, Pa.
Application January 24, 1949, Serial No. 72,511
2 Claims. (Cl. 143—174)



1. In a rip fence for saw tables and mounting therefor, a support comprising a table having a substantially flat top surface and provided at one edge thereof with a fixed bracket-mounting element having a vertical flange extending in parallel alignment with the edge of the saw table, a rip fence lying on said top surface and having its end portion projecting beyond said table edge and above said flange, a leverage-applying fence-mounting bracket of channel shape

comprising a body portion connected with the bottom edge of said projecting end of said rip fence, a pair of integral fulcrum-arms disposed at one side of and extending downwardly from said body portion, the members of said pair being spaced from each other, said fulcrum arms each having an integral fulcrum portion adapted in operative position to provide spaced contacts with one side of said vertical flange, and an integral pressure-applying bearing arm at the opposite side of said body portion having a screw-threaded bore provided with a screw and positioned intermediate the members of said pair of integral fulcrum arms and their contact portions, said bore and screw being also positioned to extend in a plane that is spaced vertically in relation to said fulcrum contact portions to cause said bore and screw to assume a leverage-applying position in relation to said fulcrum-contact portions, whereby pressures may be applied through said connected body portion to said projecting end of the rip fence to force said rip fence against the top surface of the table and simultaneously to produce a horizontal aligning of the rip fence with the saw blade.

2,651,238
POLE-SHOE TOOL
Joseph T. Becker, Chicago, Ill.
Application June 20, 1951, Serial No. 232,573
3 Claims. (Cl. 144—32)

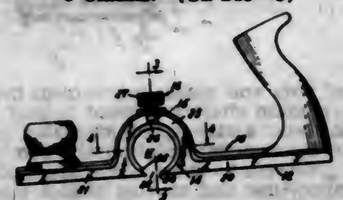


1. A tool for removing pole-shoes from motors having said shoes secured therein by means of pole-shoe screws, the tool adapted to be used in combination with a press having a reciprocal member capable of exerting substantial vertical pressure, said tool comprising a cap member having a top wall of substantial thickness and side walls defining a downwardly opening cavity therebetween, a ball bearing unit forcefitted into said cavity having an inner and outer race, a shaft member having a reduced end portion supported in said inner race and a body portion on its opposite end depending from said cap, said body portion having a vertically arranged slot in the free end thereof and a screw-driver bit removably secured therein, said shaft adapted to receive a ratchet wrench thereon for turning the same, said top wall arranged against the reciprocal member with a said bit engaging a pole-shoe screw whereby said tool may have said pressure exerted against the cap member simultaneously as the tool is being turned by said wrench.

2,651,239
METHOD OF MANUFACTURING SHOE LASTS
Sture Sjöström, Simrishamn, Sweden, assignor to A B Svenska Skolästfabriken, Jarrestad, Sweden, a corporation of Sweden
No Drawing. Application July 28, 1950, Serial No. 176,549. In Sweden October 19, 1949
3 Claims. (Cl. 144—309)

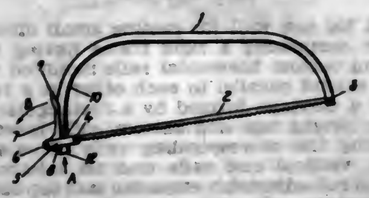
1. A method of manufacturing shoe lasts comprising profile milling a wood piece in accordance with a model to a finished shape, partially impregnating said milled wood piece with synthetic resin and setting the synthetic resin immediately following the milling operation and prior to any additional operation on the wood piece to obtain a hard surface layer and stiffened raised fibers projecting therefrom and grinding away the projecting fibers and milling traces without deforming the shape of the milled last.

2,651,240
CARPENTER HAND PLANE
Lawrence C. Lumetta and Samuel S. Lumetta, Detroit, Mich.
Application July 28, 1949, Serial No. 107,214
3 Claims. (Cl. 145—5)



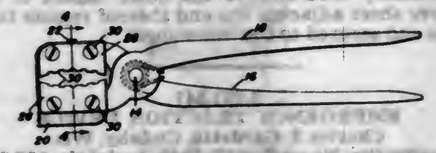
1. A carpenter's plane comprising a body-housing having a blade-receiving chamber with cylindrical walls interrupted by the extended line of the work contacting surface of said body and a threaded aperture communicating with the chamber; an arcuate substantially circular blade snugly and manually rotatably disposed in the chamber of said body so as to be adjustable to position the cutting edge of said blade below the work contacting surface of said body, and a set screw threaded in the body aperture abutting the outer surface of said blade to secure said blade relative to said body in adjusted position.

2,651,241
BOW SAW
Johan Evert Hammarström, Sandviken, Sweden, assignor to Sandvikens Jernverks Aktiebolag, Sandviken, Sweden
Application May 11, 1951, Serial No. 225,719
In Sweden March 15, 1949
3 Claims. (Cl. 145—33)



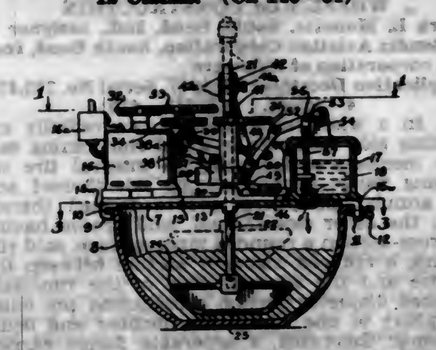
1. In a bow saw, the combination comprising a bow, means at one end of said bow for pivotally anchoring one end of a saw blade, the other end of said bow including an arcuate portion having a center of curvature located substantially coincident with the pivot axis for the blade at the opposite end, and an eccentrically acting tensioning and locking device for securing the other end of said saw blade against said bow, the eccentric member of said device including a handle portion and an eccentric portion operated thereby and engageable with the outer face of said arcuate portion to effect the locking action and being adjustable therealong so as to enable fixing of the saw blade at different angular positions relative to said bow.

2,651,242
NUT SHELLER
Charles L. Harless, San Angelo, Tex., assignor to York Nut Sheller Co., Inc., San Angelo, Tex., a corporation of Texas
Application August 22, 1949, Serial No. 111,609
3 Claims. (Cl. 146—13)



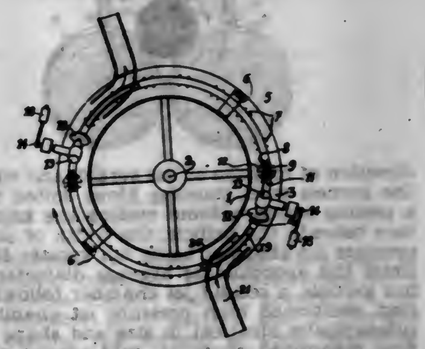
1. A nut sheller comprising a pair of handles crossed and pivotally connected at one of their ends; longitudinally elongated, opposed jaws integral with the pivoted ends of said handles; said jaws comprising an upper jaw and a lower jaw; said upper jaw having a side face and said lower jaw having a side face under the side face of the upper jaw; upper and lower anticlinal blades removably secured to the side faces of the upper and lower jaws; said upper blade having a lower sharpened beveled longitudinally extending concave edge and the lower blade having an upper sharpened beveled longitudinally extending concave edge; the beveled edge of said upper blade being downwardly and outwardly beveled and the beveled edge of said lower blade being upwardly and outwardly beveled; the extremities of said beveled edges lying in a common plane that is parallel to and spaced to one side of a plane on which the longitudinal axes of the jaws lie throughout movement of the jaws toward and away from each other, whereby the beveled edges of the blades will coact in pinching a shell.

2,651,243
AUTOMATIC SALAD CHOPPER AND MIXER
Mary M. Alexander, Los Angeles, Calif.
Application November 10, 1951, Serial No. 255,761
12 Claims. (Cl. 146—64)



1. In a machine of the kind described, a supporting structure supportable on an otherwise open topped container when the latter is supported upon a horizontal surface, a vertical rod mounted upon said structure, a chopping head carried by said rod and positioned to chop material contained within said container, a circular cam eccentrically surrounding said rod in a slidable nonrotatable relation thereto, an annular member surrounding said cam in a rotatable relation thereto, motor driven means connected with said cam member to rotate the latter and thus impart a back and forth horizontal movement to said annular member, an operative connection between said annular member and rod which causes the latter to reciprocate vertically, valve controlled means positioned to dispense minor quantities of a modifying substance to the material being chopped in the aforesaid bowl, and an operative connection between said annular member and the valve of the latter means intermittently to open and close said valve while the machine is in operation.

2,651,244
ONION TRIMMING MACHINE
Adrien Lucien Dufour, Dijon, France
Application September 7, 1950, Serial No. 183,546
In France August 30, 1950
4 Claims. (Cl. 146—83)

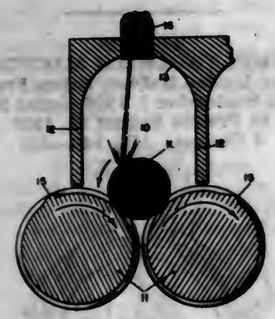


1. An onion-trimming machine comprising a frame, a cylindrical body rotatable about a vertical axis in said frame, a pair of concentric annular rims rigid with said cylindrical body and defining an annular gap therebetween, groups of opposed upwardly projecting prongs on the adjacent edges of either rim, each group being adapted to retain an onion spitted thereon with its root tuft hanging through said gap, means for making two spaced vertical parallel cuts in the base of each onion, means for removing the part of the onion between said cuts, means adapted to remove the stalk of each onion as the same is moved around past said stalk-removing means, means to lift each onion vertically clear of the said onion-retaining prongs and means to discharge the onions once trimmed.

2,651,245
METHOD AND APPARATUS FOR REMOVING PELLICLE FROM FILBERT NUT KERNELS
Edwin H. Schoolcraft, Forest Grove, Oreg., assignor to Northwest Nut Growers, Portland, Oreg., a corporation of Oregon
Application November 1, 1949, Serial No. 124,932
4 Claims. (Cl. 146—231)
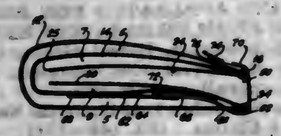
1. An apparatus for removing pellicle from filbert nut kernels including an elongated high pressure jet chamber approximately three feet in length, said chamber having side walls and a top

wall, the bottom of said chamber formed by a pair of identical rotating rolls rotated in the same direction at the same peripheral speed, an identical spiral ridge on each roll extending forwardly with respect to the direction of rotation of said rolls, whereby the nut kernels, when delivered at the intake end of said chamber will be kept rotating and will be moved along by said rolls to the discharge end of the chamber, said pair of rolls at the bottom of said chamber spaced a slight distance apart along the bottom center line of the chamber, a series of identical high pressure jet nozzles spaced along the top wall in said chamber and delivering jets of water at a pressure of from 100 to 400 pounds per square inch downwardly into said chamber, the axes of the channels in said nozzles being identically inclined slightly against the direction of rotation of said rolls, whereby the jets from said nozzles will strike the nut kernels off center and in the



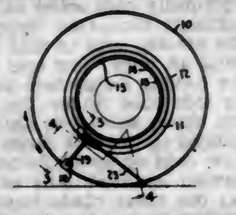
direction of rotation of the kernels and will strike the kernels with glancing blows suited to exert a peeling action without cutting the kernel surface beneath the pellicle, the width of said high pressure jet chamber being not greater than 2½ times the approximate average diameter of the nut kernels, a second jet chamber following said first mentioned high pressure jet chamber and substantially identical in size and shape to said first mentioned chamber, said second chamber having a bottom formed by a similar pair of spirally-ridged rotating rolls and a series of similarly inclined jet nozzles along the top wall, but said latter mentioned nozzles delivering jets of water at much lower pressure than said first mentioned nozzles for the purpose merely of removing pieces of pellicle still remaining on the kernels, and means for transferring the nut kernels immediately from the discharge end of said high pressure jet chamber to the intake end of said second jet chamber.

2,651,246
CLOSURE FOR WALLETS OR BILLFOLDS
Daniel J. Nash, Jersey City, N. J., assignor to Nash Inc., Jersey City, N. J., a corporation of New Jersey
Application July 16, 1951, Serial No. 236,867
2 Claims. (Cl. 150—38)



1. A wallet of the character described, comprising an outer elongated rectangular cover sheet, an inner elongated rectangular sheet of smaller outline than the outer sheet and secured to the outer sheet along aligned side edges thereof, the sheets being otherwise separable to provide an elongated pocket therebetween, the wallet being foldable along a transverse median line, a pocket sheet on each side of the wallet, said pocket sheets being secured to the outer sheet at the bottom and side edges thereof respectively, a closure strap to maintain the wallet in folded condition, said strap being of elastic material at one end thereof, and of inelastic material at the other end thereof, the elastic end of the strap being disposed within the wallet and permanently fixed to the inner sheet at a point intermediate the transverse fold line and the free end of the inner sheet, the inelastic end of the strap passing through the outer sheet and being disposed partly within and partly without the wallet and being releasably securable to the outer aspect of the cover sheet adjacent the end thereof remote from the end secured to the inner sheet.

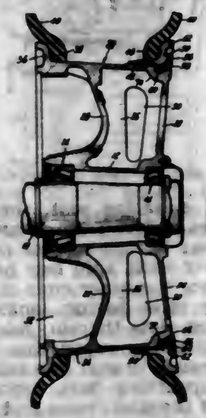
2,651,247
EMERGENCY TRACTION DEVICE
Charles J. Gardette, Cudahy, Wis.
Application November 17, 1949, Serial No. 127,828
15 Claims. (Cl. 152—223)



1. In a traction device of the character described for engagement with an automobile wheel having a rim, a tire encircling clamp having spaced arms, rim engaging shoes connected to the free ends of said arms for contact with said rim, and a tire-encircling chain having its ends connected with said arms, the portion of the chain intermediate such connections being free and of greater length than required for direct tire encirclement whereby to encircle the tire at a point peripherally spaced from said clamp, the connections of the chain to the arms comprising lever means responsive to chain tension to frictionally bind said shoes against the rim.

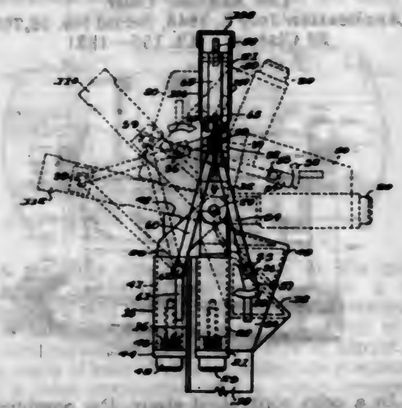
2,651,248
WHEEL RIM CONSTRUCTION
Mark L. Monette, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application December 23, 1947, Serial No. 793,470
4 Claims. (Cl. 152—410)

1. In a wheel construction, two radially extending side members, a wheel rim joining said side members and having an integral tire retaining flange formed on one side thereof and an annular peripheral groove formed therein near the other side thereof, said groove having in cross-section a rounded inner surface, said rim having a reduced diameter portion between the groove and the adjacent side of the rim, said reduced diameter portion constituting the outer periphery of one wheel side member and being coplanar therewith, a separable flange carried on said rim on the side opposite the integral flange and having an axially extending portion overlying the rim so as to wholly support the tire bead on that side, said separable flange having a round-bottomed groove formed in its radially-inner surface at the edge thereof, and a split retaining ring having integral oppositely facing annular rounded ridges, one of which is located at the axially-inner edge of the retaining ring and lies in the groove formed in the wheel rim, and the other of which is located at the axially-outer edge of the retaining ring and lies



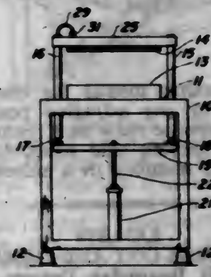
in the groove formed in the radially-inner surface of the separable flange and further is disposed radially opposite the reduced diameter portion of the wheel rim, the radially-inner surface of the body of the retaining ring lying against the reduced diameter portion of the wheel rim, and the radially-outer surface of the body of the retaining ring lying against the radially-inner surface of the separable flange.

2,651,249
SHEET METAL BENDING BRAKE
Raymond E. Smith, Sr., Waukegan, Ill.
Application August 9, 1950, Serial No. 178,381
7 Claims. (Cl. 153—16)



1. A brake comprising spaced vertically disposed posts, a horizontally disposed stationary anvil extended between and connecting the upper ends of the posts, bearings carried by the posts and extended to points whereby the axes of the bearings are aligned with the point of bend of a plate formed by the brake and positioned on the upper surface of the stationary anvil, a coacting anvil having an upper surface in the plane of the upper surface of the stationary anvil and a face positioned in meeting relation with the face of the stationary anvil, a frame positioned above the anvils, means whereby the coacting anvil and frame are pivotally mounted in said bearings extended from the posts and wherein the pivot point of the coacting anvil and frame is in alignment with the axes of the bearings, a mandrel carried by the frame and positioned to engage a plate positioned on the anvils, and means whereby the frame with the mandrel therein is rotated upon rotation of said coacting anvil whereby the mandrel is positioned to bisect the angle between the stationary and coacting anvils.

2,651,250
PACKAGING MACHINE
Francis B. Casey, Concord, Robert Reed Woodcock, Weymouth, and Manson E. Wood, Wakefield, Mass., assignors to Dewey and Almy Chemical Company, Cambridge, Mass., a corporation of Massachusetts
Original application November 26, 1947, Serial No. 788,262. Divided and this application December 6, 1949, Serial No. 131,418
1 Claim. (Cl. 154—42)

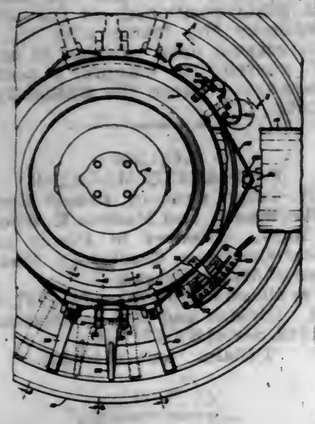


In a machine for heat sealing filled bags of thermoplastic material, the combination of a heated flexible support member providing a resilient yieldable anvil surface and a movable heated sealing jaw formed of good heat-conducting property and adapted to close upon said anvil surface and to heat seal thermoplastic material interposed between said sealing jaw and said anvil surface, means for heating both jaws, the sealing surface of said sealing jaw and of said support member being flat and mutually parallel in the sealing position, one margin of said sealing jaw merging into the vertical face of said jaw as a radius facing the bag, said radius being of sufficient dimensions that no portion of the bag contacts a substantially discontinuous surface of said sealing jaw as the jaw closes to form a seal whereby the heat imparted by the sealing jaw to the thermoplastic bag material is graduated from the bag to the sealed area and an area of thinned and weakened thermoplastic material on the bag side of the seal immediately adjacent the sealed area is avoided, and the other margin of said sealing jaw lying along a rectangular intersection of the sealing face with the other vertical face of said sealing jaw.

2,651,251
CONTROL MECHANISM FOR MOTOR OPERATED CHAIRS AND THE LIKE
Norman E. Lauterbach, Newark, N. Y., assignor to Ritter Company, Inc., Rochester, N. Y., a corporation of Delaware
Application June 27, 1947, Serial No. 757,513
9 Claims. (Cl. 155—27)

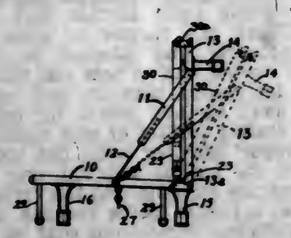
1. A chair having a base, a seat frame mounted on said base for adjustment to different eleva-

tions, motor means on said base for raising said seat frame, supporting means mounted on said base for adjustment therearound to positions on different sides thereof while said seat frame is stationary at an adjusted elevation thereof, means comprising a member movably mounted



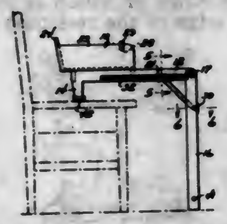
on said supporting means for controlling said motor means in any adjusted position of said supporting means, to raise said frame, and means for releasably locking said supporting means in place with said member in a selected operating position.

2,651,253
CONVERTIBLE COT AND CAMP CHAIR
Harold H. Beardsley, Denver, Colo.
Application January 13, 1949, Serial No. 70,651
5 Claims. (Cl. 155—47)



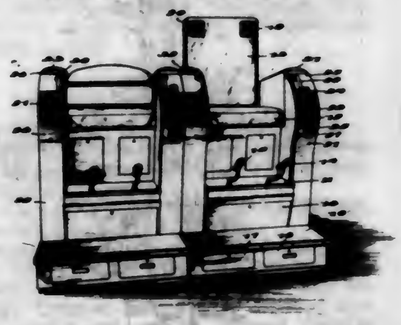
1. A combination cot and chair comprising a pair of frames, each composed of a pair of side rails hingedly connected to the side rails of the other frame to fold one upon the other and to be variously angularly disposed to one another whereby to form a seat portion and a back portion, a single strip of flexible material extending lengthwise of said two portions and secured to the side rails thereof and across said hinge, legs of varying heights secured to the side rails of said two portions for supporting them in the form of a cot, a pair of additional legs pivoted to the rails of the said back portion and optionally engageable with the ground to form a couch effect with rods pivoted to said additional legs and hooked to the rails of the back portion to brace said additional legs in inclined positions and adapted to be hooked to said seat portion in alignment with said additional legs when the back portion is pivoted to a position forming a reclining back for said seat portion.

2,651,253
CHILD'S PORTABLE FOLDING HIGH SEAT
Dean I. McWain and Ronald D. McWain, Salem, Oreg.
Application August 1, 1950, Serial No. 177,082
1 Claim. (Cl. 155—131)



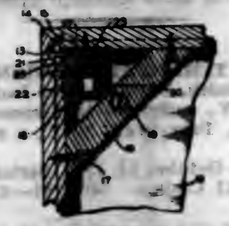
In a folding elevating seat, the combination which comprises a first frame having side rails with integral legs having caps of resilient material on the lower ends, said legs being extended downwardly from the inner ends of the said side rails, said side rails having longitudinally extended elongated slots therein, relatively spaced transversely extending supporting bars fixed at their respective ends to said side rails, a seat carried by the supporting bars connected to the said side rails of the first frame and positioned on the frame so that the seat extends from a point intermediate the ends of said frame toward one of said ends, a second frame having posts at its sides pivotally attached to the outer ends of the rails of the first frame, diagonal braces pivotally attached to the posts of the second frame at one end and mounted for longitudinal sliding movement in relation to said side rails in the slots of the side rails of the first frame at the other end by bolts with clamping thumb nuts thereon for clamping the ends of the diagonal braces in the slots of the side rails of the first frame.

2,651,254
CHAIR WITH ACCESS PREVENTING MEANS
Jefferson D. Fowler and Ralph A. Vaughn, Los Angeles, Calif.
Application July 2, 1948, Serial No. 36,706
26 Claims. (Cl. 155—188)



1. In a coin controlled chair, the combination of a seat, movable means normally in a position to prevent access to said seat, coin responsive means to move said movable means to a position to permit access to said seat for an authorized predetermined period of time, and means to record the period of time of access to said seat beyond the authorized period of time and means for stopping the operation of said last-named means when said movable means is returned to the normal position.

2,651,255
CORNER FASTENER FOR CHAIRS
Walter C. Lucas, Asheboro, N. C.
Application June 13, 1950, Serial No. 167,525
2 Claims. (Cl. 155—196)



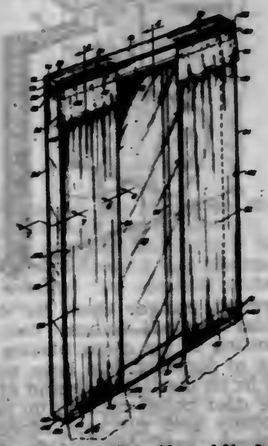
1. A chair having a seat frame, legs each directly connected to two adjacent sides of the frame and within the frame at the corners thereof, the rear legs extending upwardly through the frame to provide a support for a chair back, said rear legs at two sides thereof having undercut portions providing recesses to receive the adjacent sides of the seat frame at the corners, the front legs having undercut portions providing recesses to receive the sides of the seat frame at the front thereof, brace members extending across each of the corners of the seat frame and having one side thereof engaging a leg to impart rigidity to the chair, at least one corner block united to one side of each leg and the adjacent side of the seat frame, a chair back secured to the extensions of said rear legs, and a seat positioned on said frame and supported by said frame, by said legs, and by said braces, said seat having the back corners cut away to permit the extensions of the rear legs to pass upwardly therethrough.

2,651,256
APPARATUS FOR EVAPORATION
Philip B. Sadtler, South Norwalk, Conn., assignor of one-half to Henry M. Hunter, Brooklyn, N. Y., and one-half to George D. Dickey, Ridgewood, N. J.
Application August 25, 1948, Serial No. 46,147
5 Claims. (Cl. 159—17)



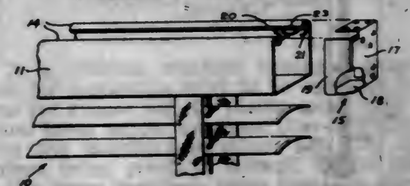
2. A multiple effect evaporator of the mixed flow type, comprising in combination, a first group of effects connected for countercurrent flow of liquor and vapor, a second group of effects connected for concurrent flow of liquor and vapor, each of said effects including an evaporator body, a heat exchanger and a pump connected to circulate liquor from said evaporator body through said heat exchanger back to said evaporator body, at least one of said heat exchangers of said second group of effects being provided with internal partition means dividing said exchanger into a main heating zone wherein said circulating liquor is heated and a preheating zone, and a liquor conduit interconnecting an effect of said second group with an effect of said first group, said conduit including the preheating zone of said one heat exchanger whereby liquor flowing through said conduit from said second group of effects is preheated before reaching said first group of effects.

2,651,257
VENETIAN BLIND COVER
Marion E. Skwark, Binghamton, N. Y.
Application October 3, 1951, Serial No. 249,430
6 Claims. (Cl. 160—24)



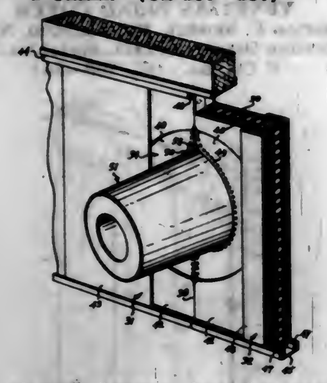
1. A cover for a Venetian blind of the type consisting of a blind head operatively connecting a plurality of slats through the agency of a bottom bar that comprises a series of horizontal and vertical panels arranged in a box-like structure adapted to receive a Venetian blind and completely enclose same and elastic means adapted to cooperate with the top portions of the cover, which enclose the blind head of an enclosed Venetian blind, to allow the cover to change its dimensions in a direction longitudinally of the head.

2,651,258
END BRACE FOR VENETIAN BLIND HEAD BARS
Hans K. Lorentzen, Montclair, N. J., assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y., a corporation of New York
Application November 18, 1952, Serial No. 321,097
6 Claims. (Cl. 160—178)



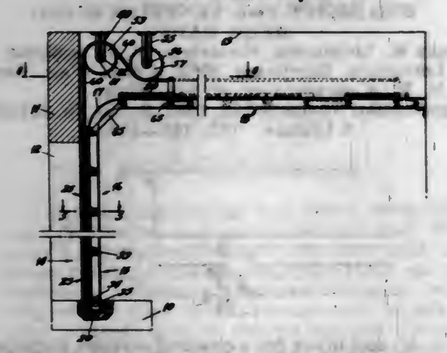
1. An end brace for a channel-shaped Venetian blind head bar having its free longitudinal edges formed into hollow beads, said brace comprising a single length of springy wire having an intermediate portion adapted to span between the beads of the channel and having portions at the ends of the intermediate portion that are bent at right angles to the intermediate portion and then back upon themselves in spaced relation to form resilient bead-engaging portions adapted to frictionally engage the inner walls of the beads, at least one of the terminal ends of the wire projecting on that side of the intermediate portion which is opposite to the bead-engaging portions to form a resilient finger.

2,651,259
FUSELAGE EMBRACING HANGAR DOOR
Arthur Donald Margison, Toronto, Ontario, Canada
Application June 23, 1949, Serial No. 100,264
1 Claim. (Cl. 160—130)



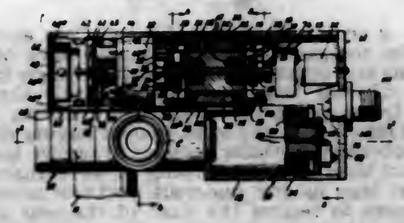
In an aircraft hangar door for cooperation with a similar aircraft hangar door, the said two doors uniting in use along mating edges, the improvement of forming said door with a fuselage cut-out in its mating edge and of mounting a deformable door panel member on said door to normally occupy and fill said aforementioned fuselage cut-out, said deformable door panel member being deformable inwardly of the mating edge of which it normally forms a part to permit the fuselage of an aircraft to enter into said fuselage cut-out of said door, said deformable door panel member comprising a sheet of cellular elastomer.

2,651,260
MOTOR OPERATED SECTIONAL SLIDING DOOR
John P. Reinhardt, Brooklyn, N. Y.
Application March 26, 1949, Serial No. 83,589
14 Claims. (Cl. 160—188)



1. In combination with a pair of aligned tracks having vertical portions, curved portions at the upper ends of the vertical portions and horizontal portions extending from said curved portions, a sectional door comprising interpivoted sections, rollers on said sections disposed within said tracks, a horizontal shaft above said track, sprocket wheels on said shaft, motor means for rotating said shaft, inextensible chains on said sprocket wheels respectively having their lower ends connected to the lower end of the door, a carriage slidably mounted on and between the horizontal portions of said tracks in spaced relation to the upper end of the door, the rear ends of said chains being connected to said carriage, and means, including spring means interposed between the upper end of the door and said carriage, to urge the carriage away from the door and to take up slack in said chain.

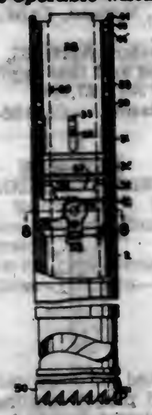
2,651,261
TIMING MECHANISM
Stanley J. Smith, Ossining, and Jack Isreeli, New York, N. Y., assignors to Simmonds Aerocessories Inc., Tarrytown, N. Y., a corporation of New York
Application October 24, 1951, Serial No. 252,878
11 Claims. (Cl. 161—1)



1. A timing mechanism comprising in combination, a control actuating means having two positions of control; a spring cooperating with said actuating means and biasing it to one of said positions of control; electro-magnetic means, including a solenoid holding coil, for positively holding said actuating means in one control position against a spring bias when energized; means for deenergizing said electro-magnetic means to permit said actuating means to occupy the other control position under said spring bias; an electric motor having a rotor and a stator; means to limit the angular movement of said rotor in one direction only to 90°; damping means including an eddy current brake, cooperating with said motor to delay the time-cycle during which said rotor moves through its limited angular displacement; means to adjust the damping means by varying the air gap in which the eddy current brake moves to preselect the delay cycle of said motor; means associated with said rotor to maintain said actuating means in said other control position during said motor time-delay cycle; and automatic means to return said actuating means to said one control position after the time-delay cycle has ended, including an actuating solenoid coil acting to move said actuating means, and a switch located in the circuit of said activating solenoid coil and closed by said rotor at its limit of angular movement.

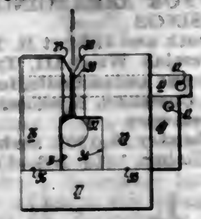
2,651,262
OUTSIDE PIPE CUTTING TOOL
Lynn W. Storm, Houston, Tex.
Application August 6, 1947, Serial No. 766,523
11 Claims. (Cl. 164—0.6)

1. A combination washover overshot and outside cutter for releasing and cutting a portion of a stuck pipe in a well bore comprising, a body, a slip cage releasably connected thereto, a pressure sleeve slidable on said slip cage, slips connected to said sleeve, there being windows with inwardly and downwardly tapered surfaces in said slip cage to receive said slips and for moving said slips outwardly into engagement with the pipe to be cut, a drive sleeve connected to said slip cage, tapered means slidably connected to said drive sleeve, cutters mounted in said body, a tapered sleeve engaging said cutters and arranged to fit said first mentioned tapered means, resilient means engaging said pressure sleeve to normally retain said slips in retracted position, said sleeve being movable by fluid pressure to move said slips to engagement with the pipe to be cut, and means operable when an upward pull



is thereafter exerted on said body to frictionally engage said tapered means with said tapered sleeve whereby rotation of said body therewith moves said cutters into engagement with the pipe to be cut.

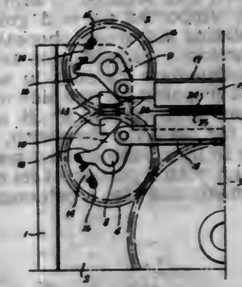
2,651,263
CARD PUNCH AND DIE ASSEMBLY
Hunter E. Hoge, Athens, Ohio, assignor to The McBee Company, Athens, Ohio, a corporation
Application April 11, 1949, Serial No. 86,818
3 Claims. (Cl. 164—11)



1. A punch and die assembly comprising a die block having a card-receiving passage formed therein, a plurality of shallow punches reciprocably disposed in said block in side-by-side relationship such that when one of said punches is actuated to punch a shallow notch in a card one or more adjacent shallow punches provide surfaces for guiding the punch which is being actuated, and one or more slot punches also reciprocably disposed in said die block, each said slot punch being adjacent a shallow punch such that the adjacent shallow punch provides a guide surface for said slot punch, said slot punch and the adjacent shallow punch being operable together to punch a deep slot in a card.

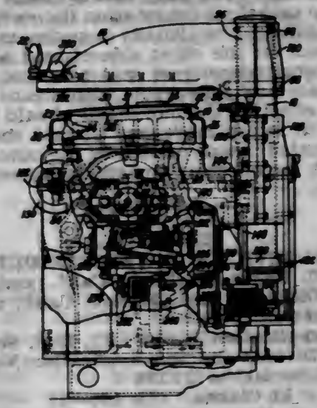
2,651,264
METHOD OF AND APPARATUS FOR CUTTING PAPER AND LIKE WEBS
Arthur Ashman, Bristol, England, assignor to Celedense Limited, Bristol, England, a company of Great Britain and Northern Ireland
Application June 24, 1950, Serial No. 170,065
In Great Britain March 9, 1950
7 Claims. (Cl. 164—17)

1. The method of cutting substantially flat, tubular stock of paper and the like into predetermined lengths with the ends of the superposed webs of the tubular stock in offset relation, comprising the steps of continuously feeding the tubular stock in the direction of its length and cutting through the respective superposed webs of tubular stock at longitudinally spaced apart



lines transverse to the direction of feed by a cutting edge movable simultaneously both transversely across and perpendicularly through said web to provide projecting lips alternately on the respective webs at the opposite ends of the cut lengths of stock.

2,651,265
RECIPROCATING DIE PRESS
Frank E. Stratton and Horatio V. Hall, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 29, 1949, Serial No. 84,176
10 Claims. (Cl. 164—35)

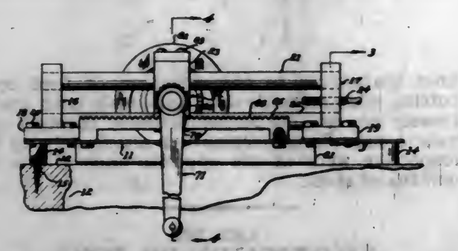


1. In a clicking machine having a beam, a platen for supporting work to be operated upon, means for supporting the platen comprising upper and lower toggle members, pins pivotally securing the members together, and the upper members being pivotally secured to the platen and the lower members being pivotally secured to the frame of the machine, cam controlled means for actuating the toggles in effecting movement of the platen toward and away from the beam, and cam controlled means for rocking the platen about the pins during actuation of the toggles to cause the platen to roll along the beam.

2,651,266
BELT-CUTTING AND RIPPING DEVICE
Max C. Ide, Detroit, Mich.
Application August 4, 1950, Serial No. 177,716
2 Claims. (Cl. 164—77)

1. In a belt cutting machine, a base adapted for securement to a supporting surface, said base

having a longitudinally extending slot, a pair of upstanding walls arranged in longitudinal spaced relation on one side of and spaced from said slot and secured to said base, spaced guide rods extending between and secured to said upstanding walls, a block supported on said guide rods for longitudinal sliding movement therealong, a shaft disposed transversely of said base and rotatably supported intermediate its ends in said block, a cutter element disposed on one side of said block inwardly of one end of said shaft and secured to said shaft for rotation therewith, said cutter element being in longitudinal alignment with respect to said slot with a portion of its cutting edge extending through said slot, a belt engaging roller



assembly disposed in side by side spaced relation with respect to said cutter element, said assembly including a roller having an outer ring provided with a knurled surface, an inner resilient ring secured to said outer ring, and a clutch element secured to said shaft for rotation therewith interposed within and frictionally engaging said inner ring, means on the other side of said block extending longitudinally of said base and carried by said base and engageable with means on said shaft for effecting the movement of said block in response to rotary movement of said shaft, and hand actuated means carried by the other end of said shaft for effecting the rotary movement of the latter.

2,651,367

PLUG DEVICE FOR WELL CONDUITS

Reuben C. Baker, Coalinga, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California

Original application January 12, 1948, Serial No. 1,843. Divided and this application November 14, 1949, Serial No. 127,186

11 Claims. (Cl. 166—1)



1. A plug adapted for downward movement in a well conduit, including a valve head having a downwardly facing seating surface, and an extension extending downwardly from said head and surface, the center of gravity of said plug being substantially below the lower end of said surface, said extension having a lesser diameter than said valve head.

2,651,368

PLUG AND VALVE DEVICE FOR CASING APPARATUS

Reuben C. Baker, Coalinga, and Benjamin Lewis Austin, Long Beach, Calif., assignors to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California

Original application April 23, 1948, Serial No. 22,886. Divided and this application November 14, 1949, Serial No. 127,190

9 Claims. (Cl. 166—1)



1. A plug adapted for downward movement in a well conduit, said plug including an upper valve head having a chamber which opens upwardly through said head, said head having a downwardly facing sealing surface adapted to engage a companion seat in the well conduit, an extension extending downwardly from said head, and means releasable by hydraulic pressure releasably attached to said head and disposed across said chamber to close the same.

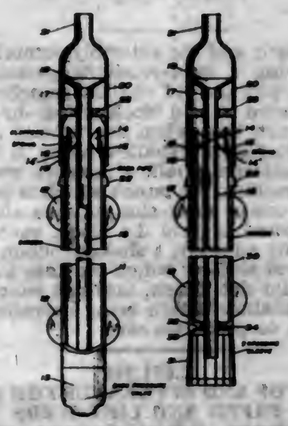
2,651,369

GRAVEL PACKING APPARATUS AND METHOD FOR ARRANGING SAME IN WELL CASINGS

Guss F. Abendroth and Gilbert H. Tausch, Houston, and Jeremiah Ward III, Tyler, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application February 25, 1952, Serial No. 273,278

6 Claims. (Cl. 166—1)



1. A screen assembly for use in long producing intervals which comprises, in combination, a plurality of screen sections adapted to be arranged in a cased well bore one upon another each having a valve in the upper end thereof normally urged into a closed position, releasable connecting means on each of said sections adjacent the valve for connecting to and releasing a section from a pipe string, latching means on the exterior surface of each section adjacent the upper end, engaging means on the lower end of each of said sections other than the lowermost of said sections, and a retrievable wash pipe carried by the lower end of said pipe string slidably arranged in the section connected to the pipe string holding the valve in said section in an open position, said engaging means and latching means being engageable with each other to connect said sections and form a continuous internal passageway.

2,651,370

BOREHOLE FLOWMETER

John M. Pearson, Swarthmore, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application April 24, 1947, Serial No. 743,646

5 Claims. (Cl. 166—1)



1. Apparatus for measuring the flow of liquids in boreholes comprising a vibration transmitting member extending into a well borehole; liquid volume responsive means in operating engagement with the lower end of said vibration transmitting member; a flowmeter having an inlet and an outlet adjacent the volume responsive means adapted to periodically actuate said means to vibrate the transmitting member as predetermined quantities of liquid pass therethrough; concentrically arranged tubular means connected to the outlet of the flowmeter having apertures therein between the tubes and having a part thereof slidable relative to a substantially fixed section to regulate the flow of liquid through said flowmeter by varying the exposed areas of the apertures to control the volume of effluent therethrough; packing means, apertured longitudinally thereof, connected to the bottom of said tubular means to hold the relatively fixed section of the same immovable relative to the borehole; and means operatively engaging the upper end of said vibration transmitting member to receive and register the vibrations.

2,651,371

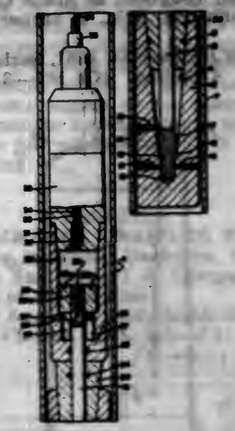
APPARATUS FOR PLUGGING WELLS

Lester W. Teelke, Houston, Tex.

Application September 27, 1948, Serial No. 51,250

6 Claims. (Cl. 166—13)

1. A well plugging device of the character described, comprising, a ductile metallic body insertible in a well pipe, a downwardly and inwardly tapering bore in said body, a wedge member similar in shape to said bore longitudinally movable interiorly of said bore to expand the wall of said body, a piston rod slidable axially through said wedge member, means for anchoring the inner end of said piston rod to said body



below the inner end of said wedge member, a cylinder enclosing the outer end of said rod, a piston mounted on the outer end of said rod within said cylinder, and explosive material disposed in said cylinder below said piston.

2,651,372

NOZZLE CONSTRUCTION

Clifford C. Vanderwall, Marinette, Wis., assignor to Ansul Chemical Company, Marinette, Wis., a corporation of Wisconsin

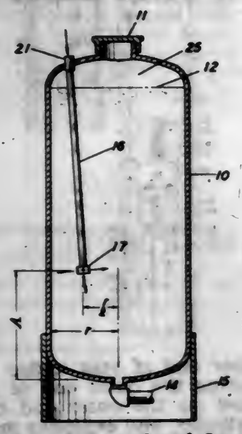
Application October 5, 1951, Serial No. 249,874

3 Claims. (Cl. 169—1)



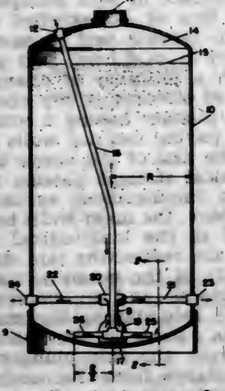
1. A nozzle for producing streams of gas-expelled dry chemical having a predetermined shape and velocity comprising a nozzle body provided with a bore for housing a slidable plunger, said plunger being provided with a sealing surface, a seat in said bore adapted to mate with the sealing surface of said plunger to seal the bore against flow of gas-expelled dry chemical and means to actuate said plunger to open or closed position in said bore, said plunger being provided with a plurality of channels for permitting flow of streams of dry chemical therethrough, said plunger having a conically shaped head portion having inclined walls positioned at an angle to the axis of the nozzle bore to direct the dry chemical streams passing through said channels into impingement against the inner walls of said bore, the inner walls being substantially parallel to the longitudinal axis of said nozzle, said walls redirecting said streams essentially forwardly of the nozzle to join other like redirected streams and to emerge from said chamber while recombining the major portions of the streams outside of the nozzle to form a combined stream, the said plunger being positioned at a distance from the nozzle tip to substantially predetermine the shape and velocity of the emitted stream.

2,651,373
APPARATUS FOR FLUIDIZING FIRE-EXTINGUISHING DRY CHEMICALS
Arthur B. Guise and Harold P. Sunstrom, Marinette, Wis., assignors to Ansul Chemical Company, Marinette, Wis., a corporation of Wisconsin
Application January 31, 1951, Serial No. 208,821
4 Claims. (Cl. 169—9)



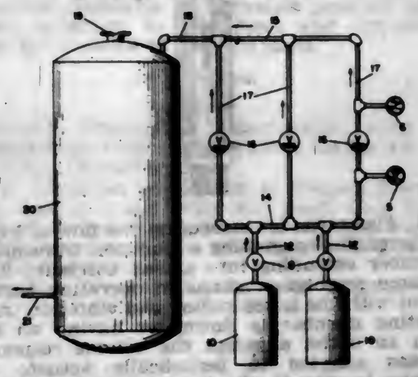
1. A container for powdered fire-extinguishing dry chemical comprising a gas inlet tube for supplying fluidizing and pressurizing gas within said container, said inlet tube terminating short of the bottom of said container at a height therefrom of about one-third of the total depth of said container and about one-half the radial distance from the vertical axis of said container to supply gas for fluidizing substantially the entire dry chemical content in said container and to pressurize the top and bottom zones of said container at about substantially the same rate, said inlet tube being provided with a nozzle head comprising a plurality of spaced orifices positioned radially of said inlet tube.

2,651,374
APPARATUS FOR FLUIDIZING AND PRESSURIZING FIRE-EXTINGUISHING DRY CHEMICALS
Alden Allen, Menominee, Mich., assignor to Ansul Chemical Company, Marinette, Wis., a corporation of Wisconsin
Application January 31, 1951, Serial No. 208,822
3 Claims. (Cl. 169—11)



1. A container for storing powdered fire-extinguishing dry chemical therein and providing streams of fluidized dry chemical comprising a gas inlet tube extending longitudinally within said container for supplying gas under pressure, a fitting connected to the lower end of said tube, nozzles connected to said fitting, said nozzles terminating at a point spaced from the vertical axis of said container at a distance of about one-half the radius of the container and being positioned to direct streams of gas substantially radially within said container into impingement against the walls of the container for fluidising the dry chemical stored in said container and pressurizing the upper and lower zones of said container, an outlet positioned within the said container adjacent the bottom thereof for permitting fluidized dry chemical to pass therethrough, said outlet being connected to conduits communicating with outlet ports for conveying streams of fluidized dry chemical from said container.

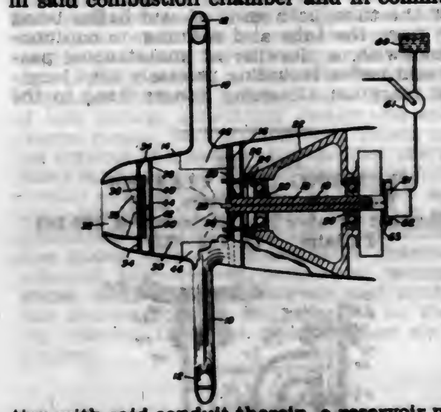
2,651,375
APPARATUS FOR PRESSURIZING CONTAINERS FOR FIRE-EXTINGUISHING DRY CHEMICALS
Arthur B. Guise, Marinette, Wis., and Alden Allen, Menominee, Mich., assignors to Ansul Chemical Company, Marinette, Wis., a corporation of Wisconsin
Application January 31, 1951, Serial No. 208,823
2 Claims. (Cl. 169—11)



1. A dry chemical fire-extinguishing apparatus for supplying a stream of fluidized dry chemical which comprises a container for storing powdered dry chemical therein, a manifold connected to said container for supplying gas under a predetermined pressure to said container, at least three spaced conduits connected to said manifold in parallel, each of said conduits being connected to a second manifold, a pressure reducing valve in each of said spaced conduits positioned intermediate said manifolds and a source of high pressure gas connected to said second manifold intermediate each pair of said spaced conduits.

2,651,376
EXPLOSION-CYCLE JET PROPELLER FOR AIRCRAFT PROPULSION
John D. Stanitz, Lakewood, Ohio
Application October 31, 1949, Serial No. 124,693
5 Claims. (Cl. 170—135.4)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. In combination with supporting aircraft structure, a jet driven propeller provided with hollow blades, a hub for said propeller connected to the blades thereof, a shaft, provided with an axially extending conduit, centrally connected to one end of said hub and mounted for rotation with respect to the supporting aircraft structure, a combustion chamber positioned within said hub, said combustion chamber being in communication with the interior of the blades of said propeller, an air inlet port in the other end of said hub in communication with said combustion chamber for introducing combustion air into said chamber, check valve means positioned between said inlet port and said combustion chamber effective on gas explosion for preventing backflow of gases from said chamber into said air inlet port at the instant of gas explosion, fuel jet nozzle means mounted on the end of said shaft within said combustion chamber and in communica-



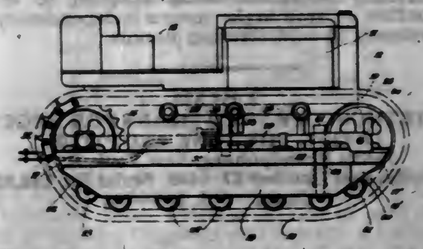
tion with said conduit therein, a reservoir mounted on said aircraft structure, pump means mounted on the other end of said shaft for supplying fuel from said reservoir to said conduit and said fuel jet nozzle at a predetermined frequency and quantity to form an explosive mixture with the inlet air in said combustion chamber, means extending into said combustion chamber for igniting said explosive mixture as it is formed and jet nozzle means positioned at the tips of said propeller blades, in communication with the interior of said blades, for imparting rotation to said propeller blades by the jet reaction of the combustion gases passing therethrough from said combustion chamber.

2,651,377
STEERING BY DRIVING INTERLOCKED WITH MANUAL STEERING
Robert Lapsley, Berrien Springs, and George L. Turner, Niles, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application November 14, 1949, Serial No. 127,204
8 Claims. (Cl. 180—6.3)



2. In an industrial tractor having a caster-mounted type rear steering wheel assembly, a front transverse axle assembly, drive wheels at the ends thereof, an engine disposed rearwardly thereof, pump means driven by said engine for developing a variable fluid pressure, hydraulic drive motors for each of said wheels, control means for selectively varying the volume and pressure of said fluid, delivery means conducting said fluid from said control means to said motors, steering means for said rear steering wheel assembly, and separate control means actuated in response to movement of said steering means for independently reversing the direction of flow of said fluid through either of said motors to reverse the driving action of the associated drive wheel, said separate control means providing for decreasing the flow of fluid to either motor prior to said reversing.

2,651,378
HIGH-CLEARANCE CRAWLER TRACTOR
Isaac Pérez de la Llana, Santurce, Puerto Rico, assignor to San Miguel & Compania, Inc., a corporation of Puerto Rico
Application August 3, 1950, Serial No. 177,469
9 Claims. (Cl. 180—9.1)

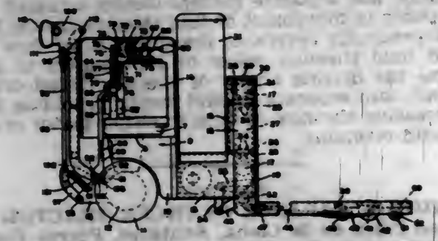


5. In a crawler tractor, a body carrying an engine at its front end, a track frame at each side of the body enveloped in an endless track made up of track links and pads, means carrying the body on the track frames comprising load suppports on the top edges thereof so that the latter may oscillate over uneven ground, each track carried by an idler wheel mounted on the front end of the its track frame on an axis disposed forwardly of the front end of the engine, each track frame including as a part thereof a downwardly extending additive portion secured to the under edge thereof to space the track frame upwardly to elevate the body for high clearance, said spacer portion being continuous and coextensive in length with the lower edge of the track frame and carrying track rollers at its lower edge with the rollers riding on the ground run of the endless tracks, the downwardly extending spacer portion also extending forwardly of the front end of the engine, said tracks adapted to be lengthened by insertion of additional links and pads to accommodate the added track frame portion and means adding weight to the forward end of the body ahead of the engine to compensate for the extension of the track frame forwardly as defined.

2,651,379
BRAKE MECHANISM AND HANDLE CONSTRUCTION
Merris R. Elliott and George L. Turner, Buchanan, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application May 4, 1950, Serial No. 160,684
6 Claims. (Cl. 180—12)

4. In a hand truck having a prime mover therefor and an output shaft driven by said prime mover, the combination of brake means for said output shaft for selectively braking the latter, a steering handle for the hand truck, linkage means between said steering handle and said brake means for applying the latter when

said steering handle is disposed in either a substantially vertical or horizontal position, one way lost motion connection means between said steering handle and said linkage means, an electromagnet assembly, said electromagnet assem-



bly having connection with said linkage means between said steering handle and said brake means, and said electromagnet assembly when electrically energized being adapted to effect actuation of said brake means independently of movement of said steering handle.

2,651,280
STETHOSCOPE WITH MEANS FOR REGULATING THE TONE AND PITCH
Julius Brandenburg, New York, N. Y.
Application October 27, 1949, Serial No. 123,921
1 Claim. (Cl. 181—24)



A stethoscope comprising a transmitter head consisting of a solid block having a circular concaved bottom surface and being formed with a threaded opening extending entirely through the block, the lower end of the threaded opening communicating with the concaved bottom surface centrally thereof, a tubular member of substantially thickness being externally threaded throughout its length and open at its respective ends, said tubular member being threaded into the threaded opening in said block with its upper end portion extending beyond the upper face of the block to provide a stethoscope tube receiving nipple, said threaded tubular member being adapted for longitudinal adjustment in the threaded opening in the block for causing the lower end of the tubular member to be disposed in predetermined spaced relation with respect to the lower end of the opening in the block to provide a sound pocket of desired depth below the tubular member, the length of the sound pocket being defined by the distance between the lower end of the threaded opening in the block and the corresponding lower end of the tubular member, and a nut threaded on the upper end of the tubular member engaging the upper face of the block to retain the tubular threaded member in its adjusted position.

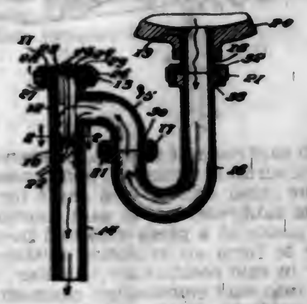
2,651,281
EXHAUST MUFFLER WITH CONICAL PERFORATED BAFFLES
Richard W. Cooper, Hutchinson, Kans.
Application September 24, 1951, Serial No. 247,964
1 Claim. (Cl. 181—70)

A muffler comprising a tube having an inlet at one end and an outlet at its other end, and a plurality of longitudinally spaced, substantially segmental, conical perforated baffles mounted at circumferentially spaced points in the tube in spaced, opposed relation thereto, said baffles having their large ends forward and being inclined rearwardly and outwardly from the longitudinal



axis of the tube, both ends of said baffles being spaced from the tube and defining, in conjunction therewith, a plurality of unobstructed passages, said baffles including reversely bent longitudinal marginal attaching flanges fixed to the tube.

2,651,282
PLUMBING TRAP CLEANER
Dominick Dilco, Utica, N. Y.
Application October 9, 1950, Serial No. 189,261
1 Claim. (Cl. 182—23)



In a trap for plumbing fixtures, the combination which comprises a U-bend having a long arm and a short arm with coupling members positioned on the ends of the arms, an overflow pipe having an elbow for attaching the overflow pipe by one of said coupling members to the short arm of the U-bend with one end of the overflow pipe extended for a connection to a drain, said overflow pipe also having a threaded neck on the opposite end aligned with the said drain connection, and a cap threaded on the said threaded neck and means carried by said cap and extending into said overflow pipe beyond the connection of the elbow to said overflow pipe for cleaning the said drain connection.

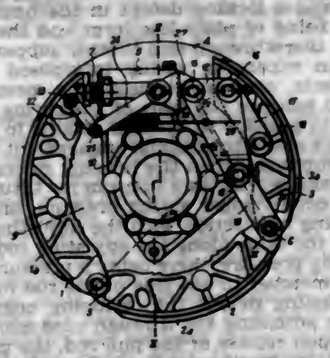
2,651,283
SUCTION CLEANER
Edward H. Yonkers, Jr., Glencoe, Ill.
Application October 21, 1949, Serial No. 122,716
3 Claims. (Cl. 183—37)



1. A suction cleaner comprising an elongate outer casing having a substantially flat end wall

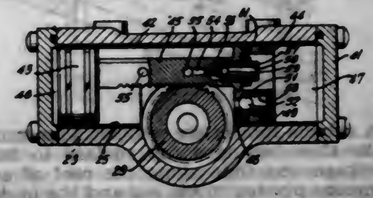
and internal partition means extending longitudinally of said casing to provide intake and discharge chambers, intake and discharge means respectively communicating with said chambers adjacent the end of said casing remote from said end wall, a suction generating unit supported on said partition means adjacent said end wall with the suction side thereof in said intake chamber and the discharge side thereof in said discharge chamber, said suction generating means locating the center of gravity of said cleaner adjacent said end wall to provide stability of said cleaner for operation in either a horizontal position or in a vertical position resting on said end wall, air filtering means in said intake chamber including a disposable bag shaped dust receptacle having an open end encompassing said intake means and including a wall portion formed of porous filter paper, precipitation means in said discharge chamber between said discharge side of said suction generating means and said discharge means, said precipitation means consisting entirely of a source of ultraviolet energy disposed in the path of the air discharged from said suction generating means for ionizing said air and a labyrinth of alternately oppositely charged precipitator plates positioned longitudinally of said casing within said discharge chamber and adjacent said suction generating means, said plates being disposed between said source and said discharge means and arranged for the sinuous downward passage of the ionized air therebetween.

2,651,284
BRAKE
Louis Charles Brisson, Vincuil, France
Application February 28, 1951, Serial No. 213,261
In France February 2, 1951
6 Claims. (Cl. 188—78)



1. In a brake assembly of the type described, a cylindrical braking surface, an expansible annular plurality of interpivoted brake segments having friction surfaces adapted to co-operate with said braking surface upon expansion of said segments, an expander unit interposed between the adjacent ends of a foremost and an endmost one on said segments and constituted by a fixed body in which there are arranged oppositely projectable pusher pistons, abutting means between the end of said foremost segment and the forward piston, and intermediate linkage means between the rearward piston and the end of said endmost segment, said linkage means comprising first link means having one end pivoted on said endmost segment and second link means having one end pivoted on the common pivot of said endmost with the endmost segment but one, both said link means coacting to provide a parallel linkage system, an intermediate element having one point pivoted to the other end of said first link means and another point pivoted to the other end of said second link means and to a fixed fulcrum, said intermediate element normally abutting the fixed body of said expander means and being actuated by said rearward piston for brake application in reverse drive.

2,651,285
SHIMMY DAMPENER
Warren H. Clark, Glendale, and Thomas H. Mead, Los Angeles, Calif., assignors to United Aircraft Products, Inc., Dayton, Ohio, a corporation of Ohio
Application April 18, 1950, Serial No. 156,704
2 Claims. (Cl. 188—88)



1. A shimmy dampener or like device, comprising a body presenting a pair of intersecting bores, a rotatable shaft received in one of said bores and projecting from one end thereof, a hydraulic accumulator in the opposite end of said one bore, resilient means applying a continuous pressure to the fluid in said hydraulic accumulator, a passageway communicating said hydraulic accumulator with the other of said bores, a piston assembly reciprocably mounted in said other bore and including a pair of spaced apart pistons of equal diameter and an interconnecting piston rod, means for effecting a controlled restricted flow of pressure fluid between the opposite ends of each of said pistons in response to longitudinal impulses applied to said piston assembly whereby to damp such impulses, and a rack and pinion connection between said shaft and said piston rod to utilize the damping function of said piston assembly to absorb torque impulses applied through said shaft.

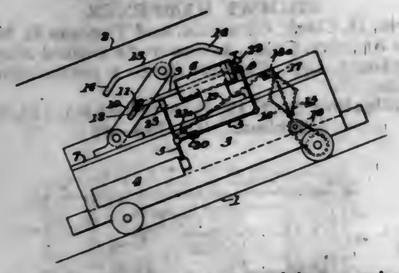
2,651,286
HYDRAULIC RATCHET OR BRAKE
William T. Rossell, New York, N. Y.
Application January 10, 1950, Serial No. 137,875
11 Claims. (Cl. 188—96)



1. A hydraulic ratchet for a rotary shaft comprising a fluid receptacle having two chambers, means actuated by said shaft for displacing said fluid from a first one of said chambers to the other, and valve means controlling such displacement comprising a non-return valve adapted to open under the influence of fluid being expelled from the first one of said chambers and to close automatically when the pressure thereagainst ceases together with timed means including a rocker arm having a pitman pivotally connected to one end thereof, said pitman being actuated by said shaft for holding said valve unseated for

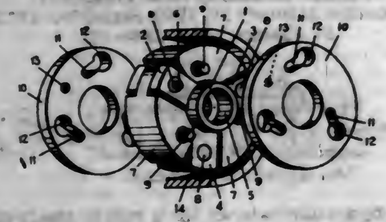
the return of liquid to said first chamber, said timed means operating to open said valve only after complete expulsion of fluid from said first chamber and during replenishment of fluid in said first chamber.

2,651,337
AUTOMATIC SAFETY BRAKE
Albert H. Genter, Mount Lebanon, Pa.
Application January 10, 1951, Serial No. 205,410
2 Claims. (Cl. 188—181)



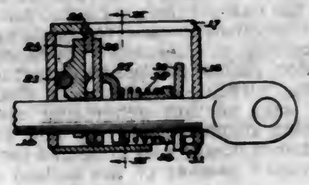
1. A vehicle roof brake comprising, a mine car, a brake shoe having a top surface to frictionally engage and slide along the roof of a mine, lever means pivoted to the car and the under side of the brake shoe to raise the latter into engagement with the roof of a mine when extended, a fluid actuated servomotor mounted on the car and having piston means connected to said lever means, and control means actuated by the movement of the car to supply fluid under pressure to said servomotor to actuate said piston means and extend the lever means to force the shoe upwardly into frictional engagement with the roof of a mine to retard the movement of the car, the force applied through the brake shoe on the mine roof reacting through the mine car and its wheels to retard the same.

2,651,338
OVERSPEED CONTROL MEANS FOR ROTARY MOTION
David Roy Trowbridge, Emerson Park, Hornchurch, and Leonard Glover, Upminster, England, assignors to The Plessey Company Limited, Ilford, England, a British company
Application June 27, 1950, Serial No. 170,492
In Great Britain October 20, 1949
5 Claims. (Cl. 188—184)



1. In an overspeed control mechanism the combination of a spider having a plurality of arms and a central hub, a shearing pin extending from each face of one arm of said spider, an arcuate shaped brake shoe pivotally connected to each arm of said spider, a stud projecting from diametrically opposite faces of each said brake shoe, a brake drum co-operating with said brake shoes, two disc shaped cover plates, each said plate provided with a plurality of equally spaced inclined slots with an enlargement at one end and a locating opening, said disc shaped plates being placed face to face with said spider and positioned so that the shearing pins on said spider enter the locating openings and the studs on said brake shoes engage the small ends of the inclined slots in said cover plates whereby the brake shoes are normally held out of engagement with said brake drum and whereby when a predetermined speed is exceeded the cooperation between the studs and slots due to centrifugal force acting on said shoes causes rotation of said plates with respect to the spider to shear off said shearing pin carried by the spider to release said shoes for centrifugally responsive movement into engagement with said brake drum.

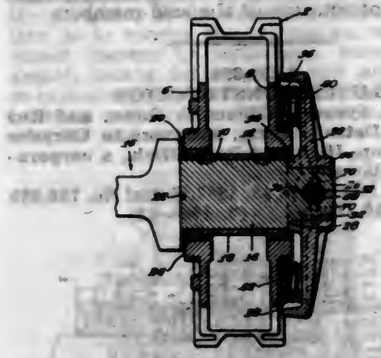
2,651,339
CAR BRAKE SLACK ADJUSTER
Robert C. Wellwood, Pittsburgh, Pa.
Application June 26, 1951, Serial No. 233,597
4 Claims. (Cl. 188—199)



1. A slack adjuster for railway brakes that have a dead lever, comprising a detent housing having a bracket extension for connection to a fixed point on a car, a slack-adjusting rod extending through the housing and slidably supported therein, means on a projecting end of the rod for pivotally connecting it to a dead lever, an adjusting detent and a locking detent in the housing, the detents being of plate-like form and the rod extending therethrough and tiltably supporting the same, an expansion spring interposed between the detents, pressure transmitting members interposed between the ends of the spring and the detents in position to tilt said detents in opposite directions and into gripping engagement with the rod, a stop member in the housing to one side of the rod and serving as a fulcrum for tilting of the locking detent under spring pressure, and a pull rod having connection with the adjusting detent to move the same along the adjusting rod against the spring pressure, there being a pressure-transmitting member to one side of the rod for tilting the adjusting detent into gripping engagement with the adjusting rod through expansion of the spring upon release of the pull rod, the pressure-transmitting member at the locking detent being in the form of a sleeve that loosely surrounds the adjusting rod, in position to bear against the locking detent at a point between the said fulcrum and the adjusting rod and being encompassed by the adjacent end of the spring.

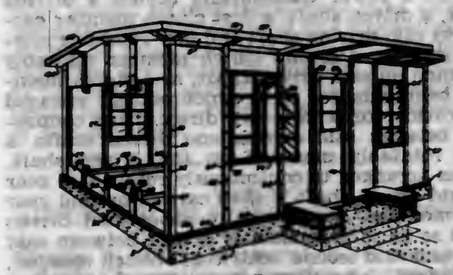
2,651,390
BRAKE HEAD ARRANGEMENT
Walter R. Polanin, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application April 14, 1950, Serial No. 155,946
8 Claims. (Cl. 188—231.1)

1. In a brake rigging, a brake beam including a trunnion and a coaxial extension of smaller diameter than the trunnion, a brake head journaled on said trunnion, a spring plate sleeved on said extension, springs compressed between said plate and said head, and wedge means extending through openings in the plate and extension to



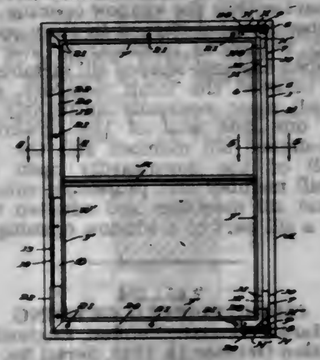
maintain said plate in tight abutting engagement against the outboard end of the trunnion.

2,651,291
BUILDING STRUCTURE
Harry L. Havens, Kansas City, Mo.
Application April 23, 1948, Serial No. 22,861
1 Claim. (Cl. 189—1)



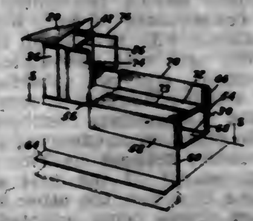
In a metal building, a base, spaced vertical columns mounted on said base, rafters secured to said columns and spanning the building, a plurality of roof panel units, said roof panel units having side edges overlying said rafters, said side edges of adjacent roof panel units being spaced apart, roof astragals overlying the side edges of adjacent roof panel units, means securing the roof astragals to the rafters for clamping the roof panel units therebetween whereby said roof panel units are held in place by friction and are free to expand and contract individually, a plurality of wall panel units the upper edges of which substantially engage the bottom surfaces of the roof panel units, said wall panel units having side edges overlapping the columns, said edges of adjacent wall panel units being spaced apart, wall astragals overlying the side edges of adjacent wall panel units, means securing the wall astragals to the columns for frictionally clamping the wall panel units therebetween whereby said wall panel units are free to expand and contract individually, waterproof flexible strips exteriorly of and at the upper edges of the wall panel units, and angle members supported by and extending between the wall astragals in engagement with the flexible strips for retaining said strips in sealing engagement with the adjacent portions of the wall and roof panel units for providing a waterproof joint therebetween which permits relative movement of the wall and roof panel units.

2,651,292
WEATHER STRIP FOR METAL CASEMENT WINDOWS
Teddie O. Craig, Jr., and Joseph Michael Lewis, Glendale, Calif., assignors, by mesne assignments, to Harold J. Le Vesconte, Glendale, Calif.
Application December 11, 1950, Serial No. 200,254
6 Claims. (Cl. 189—65)



1. A weatherstrip construction for a metal casement window including in combination a rectangular frame component and a sash component hingedly attached thereto and movable from open to closed positions relative to the frame component; said weatherstrip construction comprising a first resilient sheet metal element including a mounting flange portion fixed to an internal surface of the frame component and a longitudinally co-extensive return bend portion extending along the outer face of the top and bottom sides and the side remote from the hinge; said return bend being disposed wholly outwardly beyond the plane of the outer surface of the frame component, and, a second resilient sheet metal element including a mounting flange portion fixed to and extending along the outer surface of the corresponding sides of the sash component and a longitudinally co-extensive return bend portion disposed to yieldingly engage and fit over the return bend portion of said first strip incident to closing of the window.

2,651,293
WINDOW FRAME ASSEMBLY
Joseph Sylvan, Berkley, Mich.
Application March 23, 1950, Serial No. 151,377
2 Claims. (Cl. 189—75)



1. A window frame assembly formed of sheet metal adapted to be received within a window opening comprising, in combination, a downwardly open channel-shaped sheet metal header member, an upwardly open channel-shaped sheet metal sill member, a pair of complementary opposed outwardly open channel-shaped sheet metal jamb members, said jamb members having their upper ends seated within the channel of the header member and having their lower ends seated within the channel of the sill member

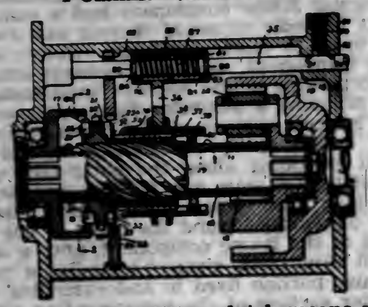
and having their side walls folded over upon themselves and over the ends of the side walls of the header member and the sill member forming a rectangular frame, a supplemental header member channel-shaped in cross section and downwardly vertically adjustably telescoped over and grippingly engaged with the first mentioned header member and adapted to be secured to a header part within the window opening, a second sill member channel-shaped in cross section and separably telescoped downwardly over the upwardly open channel-shaped sill member and extending between the jamb members, a supplemental sill plate vertically adjustably received between one side wall of the upwardly open channel-shaped sill member and the overlying side wall of the downwardly open channel-shaped sill member and projecting substantially below said sill members and adapted to be secured to a sill part of a window opening.

2,651,394

CHANGE-SPEED GEARING

Harold Sinclair, London, England

Application October 12, 1949, Serial No. 120,919
In Great Britain November 29, 1948
4 Claims. (Cl. 192—48)



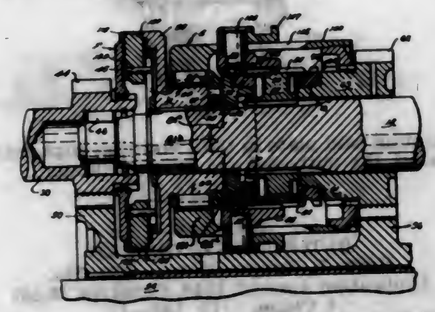
1. Synchro-self-shifting clutch means suitable for use in selecting two alternative speed ratios in change-speed gearing, the clutch means being of the kind including a first torque-transmitting member, a second torque-transmitting member co-axial with and rotatable relatively to the first member, each of said members having jaw-clutch teeth, a third torque-transmitting member co-axial with and rotatable relatively to the first and second members, an intermediate member so mounted on the first member as to be constrained to move helically thereon, the intermediate member having jaw-clutch teeth engageable, in consequence of such helical movement, alternatively with jaw-clutch teeth on the second member and with jaw-clutch teeth on the third member, and two subsidiary ratchet drives one of which is adapted to couple together the second and intermediate members and is so arranged as to effect engagement of the teeth of these two members without clashing on relative angular displacement of the first and second members in one direction, the other of said subsidiary ratchet drives being adapted to couple together the third and intermediate members and being so arranged as to effect engagement of the teeth of these two members without clashing on the relative angular displacement of the first and third members in one direction, characterized by the feature that in each two interengageable sets of said jaw-clutch teeth at least those sides of one set are inclined which are nearer to the other set in such a manner that the corners liable to impact with the teeth of the other set are set back in the axial direction as compared with the other corners of the inclined sides, those sides of the teeth of the other set which are nearer to said one set being normal to the axis of rotation of the said members.

2,651,395

CLUTCH CONSTRUCTION

Augustin J. Syrovy, William T. Dunn, and Roy T. Bucy, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application November 19, 1947, Serial No. 786,980
10 Claims. (Cl. 192—48)



1. In a power transmitting device, a driving shaft, a driven shaft, a first clutch member carried by said driving shaft and non-rotatable relative thereto, a second clutch member rotatably mounted on said driven shaft, said clutch members being adapted to be synchronously engaged to provide for a two-way direct drive connection between said driving and driven shafts, a gear rotatably mounted on the driven shaft, means arranged to continuously rotate said gear on said driven shaft, a shell carried by said gear and mounted concentrically about said driven shaft so as to permanently extend between said gear and said second centrifugal clutch member, a one-way drive transmitting device connected between said shell and said second clutch member to drive said second clutch member at the speed of said gear, and a shift sleeve mounted on said driven shaft and shiftable axially thereof, said shift sleeve being adapted to be synchronously shifted to one axial position so as to drivingly connect said second clutch member to said driven shaft to establish a one-way drive to said driven shaft from said gear which drive may be converted into a two-way direct drive between said driving shaft and said driven shaft, said sleeve also being adapted to be shifted axially, to another position, to respectively disconnect said one-way drive from said gear and directly connect said sleeve with said gear to establish a two-way drive between said gear and said driven shaft.

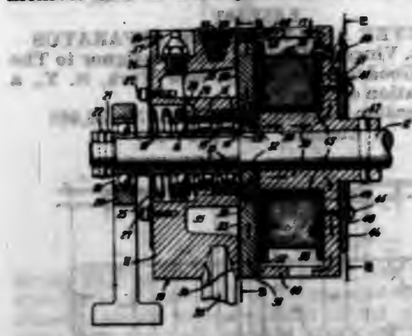
2,651,396

ELECTROMAGNETIC CLUTCH WITH LUBRICATING MEANS

Horace S. Beattie, Poughkeepsie, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application August 25, 1949, Serial No. 112,255
1 Claim. (Cl. 192—84)

An electromagnetic clutch comprising a continually driven armature member having a lubricating medium carrying reservoir, an armature disk carried by said armature member, a field member provided with an outer rim engageable with said armature disk upon a relative clutch engaging movement of one of said members, said rim registering with a lubricating hole located at the periphery of the armature disk in such position as to receive the lubricating medium projected therein by centrifugal force, a sealing gasket, means for securing said armature disk to said armature member with said sealing gasket between said armature disk and said armature member and in such position that an aperture



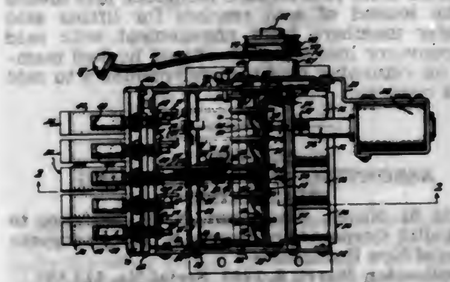
in said gasket forms a lubricating passage between said reservoir and said lubricating hole, and at least one freely rotatable member in said lubricating hole receiving said lubricating medium thrown by centrifugal force from said reservoir through said aperture and lubricating hole during the rotation of said armature member for depositing the lubricating medium over said rim as the latter is engaged by said armature disk upon the relative clutch connecting movement of said members.

2,651,397

AUTOMATIC SELECTIVE AND SEQUENTIAL TUNER

Charles E. Miller, Westmont, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application June 18, 1948, Serial No. 33,694
8 Claims. (Cl. 192—143)



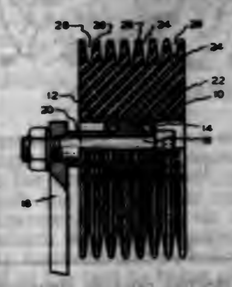
1. An automatic tuning device having a supporting structure; a positionable tuning member mounted on said supporting structure; a plurality of push arm assemblies each provided with a push button and having means associated with said tuning member for individually operating said tuning member into preselected positions; mechanism having means sequentially connected with said push arm assemblies for operating same, a manual tuning assembly independently operable with respect to said push arm assemblies and connected to said tuning member for tuning same over a continuous range, said manual tuning assembly including a releasable clutch structure normally coupling said manual assembly with said tuning member; and control elements responsive to said push arm assemblies and including means for releasing said clutch, disconnecting said sequence mechanism, and actuating the selectably manipulated push arm assembly to effect the preselected tuning.

2,651,398

CORRUGATED CUSHION ROLL

William F. McGraw, Detroit, Mich., assignor to Wm. F. McGraw & Co., Detroit, Mich., a corporation of Michigan

Application April 21, 1949, Serial No. 88,529
1 Claim. (Cl. 193—37)



A cushion conveyor and bumper roll characterized by its self-cleaning action under conditions of deflection by the supported load comprising a rubber body to receive an axle about which the roll is rotatably mounted, a plurality of narrow, slightly tapered rubber radial fins integral with said body, the radial height of said fins being substantially greater than the basal width of said fins, said fins being axially spaced with the annular peripheral edge of each fin being substantially pointed and collectively defining the peripheral supporting surface of the roll, the rubber of said fins being of a consistency providing said fins with structural characteristics resulting in said fins being readily deflected by the supported load for which the roll is designed to displace the peripheral edges of said fins in an axial direction shifting the point of load support slightly to one side of the pointed peripheral edge of each fin whereby a wiping action takes place across the peripheral edge of each fin as rolling support is given the load to obviate accumulation of foreign matter upon the peripheral surface of the roll, adjacent fins defining narrow V-grooves which are distorted upon axial deflection of said fins under load tending to dislodge any accumulation of foreign matter in said grooves, the resiliency of said fins returning said fins to their normal radial position following deflection by the load.

2,651,399

SLUG REJECTOR FOR COIN SELECTING DEVICES

William Patser, Chicago, Ill., assignor to Clarence E. Threedy, Chicago, Ill., as trustee

Application February 27, 1951, Serial No. 212,914
1 Claim. (Cl. 194—101)

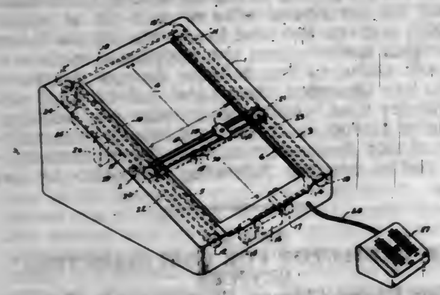
A device of the class described comprising two confronting plates providing therebetween superimposed inclined coin pathways down which coins are adapted to gravitate, means for delivering coins to each of said pathways, means for arresting magnetic slugs in said pathways, a stationary plate fixed to one of the plates and separating said pathways and providing a track for coins gravitating down the uppermost of said pathways, a stationary bar fixed to said one plate and

providing a track for the lowermost of said pathways, a sweep arm movable between said confronting plates, means for moving said sweep arm between said confronting plates, said sweep arm having a leading edge adapted to engage a slug arrested on the track in the uppermost pathway and having a slotted portion extending transversely thereof to provide an arm engageable with a slug arrested on the track in the lowermost



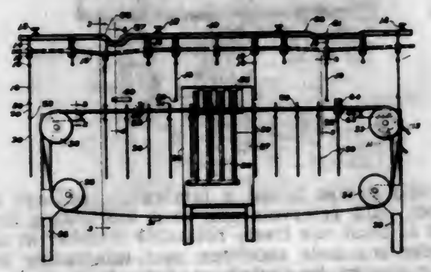
pathway, said slotted portion providing a clearance for the track in the uppermost pathway when said arm is moved to push arrested slugs off the tracks, said uppermost track at its end portion nearest the means for delivering coins to said track having a portion of its top edge beveled downwardly and outwardly with respect to said one plate to deflect arrested slugs from the track when said slugs are pushed away from the magnetic arresting means by said sweep arm.

2,651,400
GRAPH PLOTTING MACHINE
Don W. Young and John B. Trenholm, Jr., Dayton, Ohio
Application August 10, 1950, Serial No. 178,712
14 Claims. (Cl. 197—2)
(Granted under Title 35, U. S. Code (1952), sec. 266)



12. A graph plotting machine comprising, means providing a plotting board and support therefor, a plotting head, means supporting said plotting head for movement transversely and longitudinally of said plotting board, independently operable means for moving said plotting head in transverse and longitudinal directions respectively on said plotting board including a pair of independently actuable power driven devices, means including a keyboard to preselect abscissa and ordinate displacements of said plotting head with respect to an arbitrary point of origin on said plotting board, means energized by said keyboard to cause said pair of power driven devices to move said plotting head to a point on said plotting board corresponding to said preselected abscissa and ordinate displacements, and means set in operation by said power driven devices to stop said plotting head when it reaches said point on said plotting board corresponding to said preselected abscissa and ordinate displacements.

2,651,401
CONVEYER AND TRANSFER APPARATUS
Walter R. Vincent, Hudson, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application June 25, 1948, Serial No. 35,082
7 Claims. (Cl. 198—20)

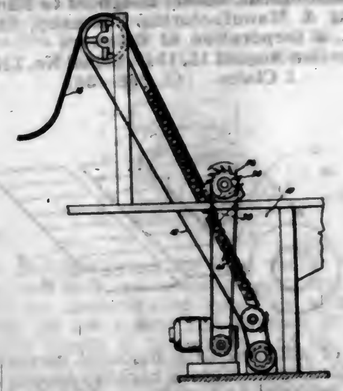


1. Conveyor apparatus comprising a chain propelled conveyor having depending hooked members, transfer members suspendable from said hooked members for carrying articles, guide means engaged by said hooked members for directing them along a devious path having a pair of straight reaches in alignment with each other, a belt conveyor parallel to said reaches, means for advancing said chain propelled conveyor at a speed in excess of the speed of said belt conveyor, said transfer members having offset shoulder portions arranged to project over said belt conveyor at said reaches, means at the first of said reaches for superimposing said offset shoulder portions upon said belt conveyor and laterally deflecting said hooked members to release said transfer members from said hooked members, and means at the second of said reaches for lifting said transfer members from engagement with said belt conveyor into the path of said hooked members for returning said transfer members to said chain conveyor.

2,651,402
ASSORTING AND FORWARDING MECHANISM
Harold M. Noyes, Claremont, N. H., assignor to Expellid Corporation, Dover, N. H., a corporation of New Hampshire
Application March 8, 1951, Serial No. 214,597
2 Claims. (Cl. 198—30)

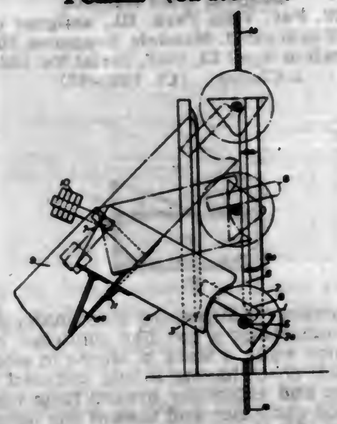
1. Mechanism for assorting and forwarding cup-like elements having an outwardly extending peripheral flange comprising a conveyor belt, magnetic means for retaining the elements on the belt, lateral guides cooperating with a portion of the belt to define a passageway for a file of such elements, means for haphazardly delivering elements to the belt in advance of such passageway, means on the belt for moving such elements into at least approximate alignment with the entrance to such passageway, an inclined member in the plane of the path of a laterally extending portion of the flange of a so aligned member and of a height to miss the

said flange if the bottom of the cup is on the belt and a knock-off device moving in spaced relation to the belt adjacent said member to



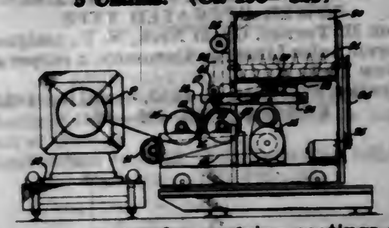
strike and knock off an element the flange of which was on the belt to be engaged by said inclined member with resultant lifting of the element into the path of said knock-off device.

2,651,403
UNLOADING OF MATERIAL
Arthur Crompton, Lincoln, England, assignor of one-half to Robey & Co. Limited, Lincoln, England, a British company
Application August 24, 1950, Serial No. 181,247
In Great Britain September 6, 1949
1 Claim. (Cl. 198—73)



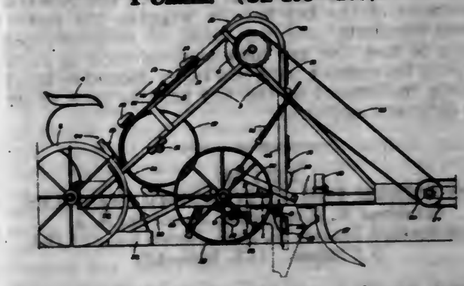
Apparatus for unloading or discharging conveyor buckets and the like, comprising a vertically traveling bucket mounted on a spindle pivotally mounted on a vertically movable conveyor, discs on the spindle of the bucket, vertically mounted tracks on which the discs are adapted to rotate, means for urging the discs towards the tracks, a pivotally mounted chute having a bar thereon arranged to extend into the path of movement of the bucket so that the ascending bucket makes contact with the bar at a predetermined position whereby the pivotal movement of the chute is coordinated with the vertical movement of the bucket so that by the continuing rotary motion the bucket has assumed a suitable angle so that the material will commence to discharge. the receiving side of the radially moving chut. also assumes a position which eliminates any sudden drop or change of the angle of discharge when the material is transferred from the bucket to the chute, and the bucket and chute returning to normal position on discharge of the contents.

2,651,404
MACHINE FOR APPLYING COATINGS
Kenneth E. James, Baldwin Park, Calif., assignor to United Concrete Pipe Corporation, Baldwin Park, Calif., a corporation of California
Application April 2, 1948, Serial No. 18,555
5 Claims. (Cl. 196—128)



1. An apparatus for applying coatings of materials at high velocity which includes an endless belt, means for driving the belt, movable means against which the belt presses and arranged to cooperate therewith to form an upwardly open bight into which the coating material may be fed whereby the material can be quickly brought up to the speed of the belt by being pinched between the belt and the movable means, and means for feeding the coating material into the bight comprising an endless belt, means for depositing the coating material thereon, means for shaping the coating material on the belt in a continuous uniform mound, said belt being arranged to discharge into the bight, and means for breaking up the mound as it is discharged from the belt into the bight.

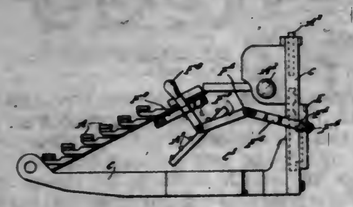
2,651,405
TRANSPLANTING MACHINE
William S. McGowan, Torreon, Mexico
Application September 22, 1948, Serial No. 50,455
1 Claim. (Cl. 198—179)



In a transplanting machine, a frame, a movable endless chain mounted on said frame and disposed in a longitudinal vertical plane, said chain having a lower portion normally traveling rearwardly and an inclined portion normally traveling upwardly and forwardly, a pulley with a periphery of greater width than said chain about which the chain turns at the juncture of said portions, a plurality of holding units pivotally mounted on said chain and movable therewith, each unit being pivoted at its normally trailing end to said chain for swinging movement in said vertical plane about a transverse pivotal axis, and a finger rigid with each unit and disposed to one side of said chain in position to engage the periphery of said pulley as the chain turns about the pulley and moves the unit thereabout, whereby in normal operation each unit depends from said lower portion of the chain as the unit

approaches the pulley and engagement of the finger with the periphery of the pulley causes said unit to swing about its pivotal axis and lie tangent to the pulley and be held in such position until clear of the pulley when the unit falls forward by gravity lengthwise onto said inclined portion of the chain.

2,651,406
KEYBOARD MECHANISM OF THE POWER-OPERATED TYPE
Ransom H. Turner, Great Neck, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York
Application February 25, 1950, Serial No. 146,225
6 Claims. (Cl. 199—18)



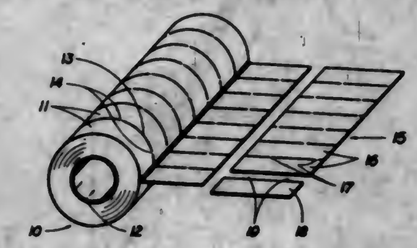
1. In a keyboard mechanism of the power-operated type, the combination of a series of pivoted finger keys arranged in a plurality of rows at different levels, a corresponding series of vertically movable key bars connected to the finger keys and controlling the operation of the power driven elements, a combined stop and lock rod mounted in engaging relation to the key bars and acting as the sole means for controlling their upward movement, said rod being rotatably mounted for adjustment to one or the other of two different positions and formed with two different key bar engaging surfaces located at different radial distances from the axis of rotation, one of said surfaces in the adjusted stop position of the rod acting to permit but limit the upward movement of the key bars in tripping the power driven elements, and the other of said surfaces acting to lock the key bars against such upward tripping movement, said rod being locked against turning movement by the key bars in each of its two different positions.

2,651,407
CONTAINER FOR HYPODERMIC NEEDLES
Seymour N. Blackman, Teaneck, N. J.
Application March 19, 1952, Serial No. 277,494
5 Claims. (Cl. 206—43)



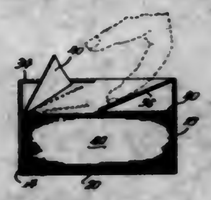
1. A container for hypodermic needles including a receptacle comprising a shallow tray, a shallow lid, and means hingedly joining said lid and tray, means carried by said lid for individually detachably holding each needle of a group of hypodermic needles, means carried by the tray for individually detachably holding each needle of a group of hypodermic needles, the needles of both groups being located in substantially a common plane and each pair of adjacent needles of either group having a needle of the other group located between them when the container is closed.

2,651,408
ROLL OF ADHESIVE TAPE
Donald W. Engberg, St. Paul, and Walter A. Nerton, Mahtomedi, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application August 15, 1949, Serial No. 110,812
1 Claim. (Cl. 206—56)



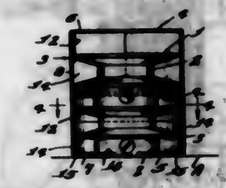
A roll of adhesive tape material comprising a flexible non-woven fibrous backing having a low-adhesion backsize and continuously coated on the face-side with a normally tacky and pressure-sensitive adhesive of the rubber-resin type, wound upon itself in roll form, and formed of at least six continuous lineal tape strips firmly but detachably held together in side-by-side relationship by minute connecting areas thereof which are lineally spaced apart about ½–1¼ inch, the said adhesive bridging the contiguous cut edges of adjacent strips of said backing to provide additional holding means between said strips.

2,651,409
TISSUE DISPENSER
Joseph W. Fay, Villa Park, Ill., assignor of one-half to Irwin J. Mendels, Evanston, Ill.
Application April 29, 1952, Serial No. 284,971
5 Claims. (Cl. 206—57)



1. A package for dispensing sheet material, said package comprising a box-like container having opposite side walls, a stack of sheets in said container, each sheet having a fold disposed on its upper face and extending inward from one side wall of said container and toward the other side wall, and a flap hinged at its outer edge to the top of said container, and otherwise free therefrom and normally held in raised position, said flap extending in a direction from said other side wall toward the free edge of said fold and spaced above the top sheet of said stack, the inner edge of said flap being in close proximity to but spaced outward from the vertical plane of the inner edge of said fold of said top sheet whereby said flap when swung downwardly blows a gust of air beneath said fold of said top sheet, said container having a top opening of substantial area extending from said one side wall thereof to the inner edge of said flap and overlying at least the mid-portion of said fold of said top sheet to avoid pocketing of said gust of air blown by said flap over said mid-portion of said fold and to accommodate upward displacement of said fold by said gust of air.

2,651,410
PULLEY PACKAGE
William P. Koch, Chicago, Ill., assignor to Chicago Die Casting Manufacturing Company, a corporation of Illinois
Application December 17, 1951, Serial No. 262,070
5 Claims. (Cl. 206—65)



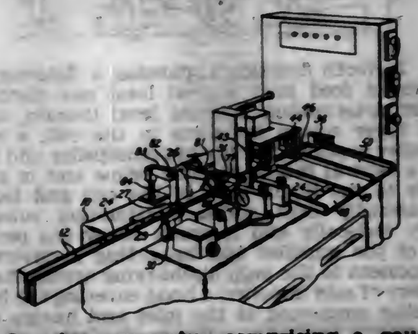
1. A package consisting of a pulley having a hub on one side and a container therefore containing an unobstructed space as wide as the diameter of the pulley and at least as high as the axial length of the pulley and its hub, the container having in the wall facing the hub a central opening smaller in diameter than the pulley and sufficiently large to permit the hub to pass through the same, and there being in the wall, opposite to the aforesaid wall, an opening that has a diameter which also is less than that of the pulley and slightly greater than the diameter of the hub.

2,651,411
DIE FOR EXTRUSION PRESSES
Irving T. Bennett, Baltimore, Md., assignor to Revere Copper and Brass Incorporated, Rome, N. Y., a corporation of Maryland
Application October 16, 1948, Serial No. 54,846
1 Claim. (Cl. 207—17)



A die for simultaneously extruding a plurality of like hollow aluminum shapes from a single billet comprising a housing formed with a plurality of like openings, each of which openings extends from one face of said housing to the other and is formed to present an annular shoulder intermediate its length, separate like first die parts each removably received by and fitting one of said openings, respectively, and resting at one end portion adjacent its periphery against said annular shoulder, each of which die parts is formed with a die orifice defining the external form of one of said like shapes, separate like second die parts each removably received by and fitting one of said openings, respectively, and resting at one end portion adjacent its periphery against said first die part in that opening, each of said second die parts being formed with a mandrel cooperating with the die orifice of the adjacent first die part, which mandrel defines the internal form of one of said like shapes, that face of each of said second die parts which is adjacent the associated first die part being formed to present a recess continuously and symmetrically surrounding said mandrel throughout the entire peripheral extent of said mandrel and communicating with the die orifice of said first die part throughout the entire peripheral extent of such orifice, the mandrel defining the inner lateral side of said recess throughout the full circumferential extent of such side, each of said second die parts being formed with a plurality of uniformly distributed exterior longitudinally extending like grooves communicating with the adjacent recess for the full radial width of the latter and opening on the end face of said part opposite said recess.

2,651,412
SIZE GAUGING DEVICE
Willis Fay Aller, Dayton, Ohio, assignor to The Sheffield Corporation, Dayton, Ohio, a corporation of Ohio
Application June 30, 1949, Serial No. 102,320
8 Claims. (Cl. 209—82)

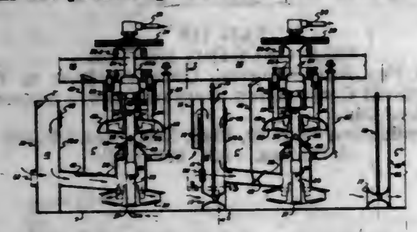


1. Gauging apparatus comprising a gauging head for rotatably receiving an article, means for rotating the article about its own axis while in the gauging head, a gauging circuit, an out-of-round gauging means operatively connected to the gauging head and including an operable gauging member movable in accordance with the instantaneous changes in a radial dimension of the article during its rotation and controlling said gauging circuit, enabling means automatically operable after a predetermined rotation of the article for rendering said gauging circuit effective, said out-of-round gauging means including a presetting means comprising a pair of cooperating switch contacts operably connected in said gauging circuit, means supporting one of said switch contacts for positioning by the other, an operative connection between the presetting means and said operable gauging member to move one of said switch contacts in one direction only during said predetermined rotation for positioning the other switch contact and automatically presetting said gauging means in accordance with an extreme of the various radial dimensions of the article, and a timing connection between the rotating means and the enabling means.

2,651,413
DUAL AERATING FLOTATION MACHINE
Arthur C. Daman, Denver, Colo., assignor to Mining Process and Patent Company, Denver, Colo., a corporation of Delaware
Application June 14, 1948, Serial No. 32,936
13 Claims. (Cl. 209—168)

1. In a froth flotation machine, in which pulp is circulated through a succession of cells and subjected to aeration in each cell for the collection of a pulp constituent in a froth on the surface of the body of pulp under treatment, the improvement which comprises an open-ended

horizontal passage disposed above and adjoining the bottom of the machine and extending between a preceding cell and a succeeding cell in the succession of cells, said passage including a narrow portion and an adjoining enlarged portion discharging into the succeeding cell, and conductive means for directing gas under pressure into the narrow portion and through the enlarged portion of said passage toward the succeeding cell at sufficient velocity to induce movement of a substantial portion of the pulp solids from the preceding cell to the succeeding cell.

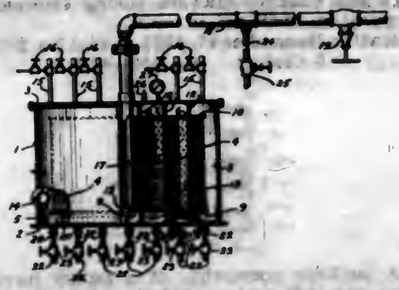


5. In froth flotation apparatus, a flotation cell having a feed inlet and at least one discharge outlet determining a liquid level therein, upper and lower rotary impellers in the cell, a cover member overhanging the upper impeller and having a central intake opening below and in proximity to the liquid level of the cell and having downwardly bent surfaces extending substantially vertically and laterally below the periphery of the impeller and imparting a downward component to the pulp discharging across the periphery of said impeller, a hood covering the lower impeller connected to the inlet and having control means for the selective recirculation of pulp from the cell, whereby said lower impeller exerts a pumping influence on circulating pulp, and means for separately controlling the air supply to each impeller.

12. In froth flotation apparatus, a flotation cell having a feed inlet and at least one discharge outlet determining a liquid level therein, a vertical shaft in the cell, upper and lower impellers on said shaft, a cover member overhanging the upper impeller and having a central intake opening below and in proximity to the liquid level of the cell and having downwardly bent surfaces adjacent the periphery of the impeller imparting a downward component to the pulp discharging across the periphery of said impeller, a hood covering the lower impeller connected to the inlet and having control means for the selective recirculation of pulp from the cell, whereby said lower impeller exerts a pumping influence on circulating pulp, outlet means for discharging an aerating gas from the shaft onto each said impeller, another outlet in said shaft intermediate the upper and lower impellers for discharge of gas into the portion of the pulp body intermediate said impellers, and a regulating member movable along said shaft for varying the discharge capacity of each said outlet.

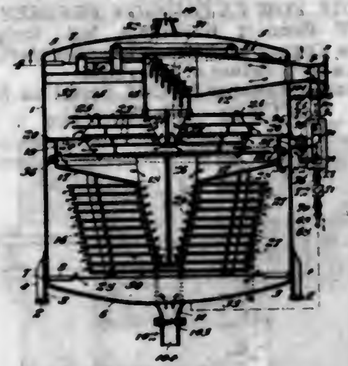
2,651,414
HYDROCARBON SEPARATOR APPARATUS AND SEPARATOR ELEMENT
Archibald Lawson, East Orange, N. J., assignor to Lawson Products Corporation, a corporation of New York
Application April 17, 1948, Serial No. 21,577
8 Claims. (Cl. 210—42)

1. In liquid separator apparatus, having an intake for mixed liquids, separate outlets for respective ingredients, and a foraminous body structure having a multitude of interstices interposed between said intake and outlets, said body structure having a thin hard carbonaceous layer on the walls of the interstices firmly adherent



to said body structure, and being highly resistant to impairment of its structure and function by reason of boiling of the contents of the apparatus in cleaning.

2,651,415
OIL SEPARATOR
Eugene Porter Worthen, Braintree, and Charles S. L. Robinson, West Newton, Mass., assignors to Bethlehem Steel Company, a corporation of Pennsylvania
Application May 1, 1947, Serial No. 745,270
8 Claims. (Cl. 210—51)

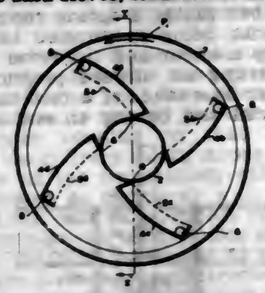


1. A separating device for oil and water mixtures, comprising an enclosing shell, a funnel shaped baffle dividing the shell into upper and lower oil-collecting chambers, an oily water inlet and a separate oil outlet connecting to the upper chamber, a water outlet connecting to the lower chamber, and conduit means for recycling oil collected in the upper part of the lower chamber to the upper chamber inlet.

2,651,416
CENTRIFUGE
Gerrit van der Mark and Kornelis van der Mark, Veendam, Netherlands, assignors to Kornelis van der Mark and Duintjer Wilkens Melhuizen & Co., Veendam, Netherlands, a company of the Netherlands
Application June 6, 1950, Serial No. 166,324
In the Netherlands June 8, 1949
5 Claims. (Cl. 210—75)

1. A device for separating solid substances from a fluid by sieving comprising a rotatable bucket-wheel having a hollow cylindrical hub and a plurality of buckets disposed circumferentially around said hub, each of said buckets having side and end walls defining a chamber and

having a liquid-admitting forward wall in the form of a sieve disposed in the direction of rotation of said bucket-wheel, said hollow hub being provided with inlet means for entry into the hub of the material to be sieved and being provided with radial outlet means opposite each sieve for radially supplying the material from said hub to said sieves, said outlet means extend-



ing the width of the corresponding sieve and associated bucket, each of said buckets being provided with an axially extending outlet conduit for discharging the material which has passed through the sieve into the bucket, and a casing positioned around said bucket-wheel for receiving the material carried by centrifugal force across the surface of said sieves.

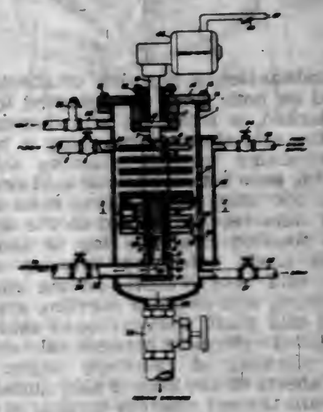
2,651,417
OUTWARD FLOW FILTER
Stanley Malanowski, Tampa, Fla., assignor to Fram Corporation, a corporation of Rhode Island
Application May 2, 1944, Serial No. 533,670
3 Claims. (Cl. 210—118)



2. A filter element comprising a plurality of sheets of rigid, coherent, cellulose material arranged in spaced relation substantially parallel with each other, one or more strips of flexible material extending around the outer edges of the cellulose sheets and attached thereto to hold the sheets in spaced relation and to form a container for liquid within the spaces between the sheets, the container being provided with an inlet to the spaces between the sheets and the flexible strip having perforations formed therein opposite the interior of the sheets, whereby liquid entering at an inlet may pass through both surfaces of a sheet, longitudinally outward through the interior of the sheets, and out of the container at a perforation.

2,651,418
FUEL OIL FILTER UNIT
James J. Prendergast, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application November 30, 1949, Serial No. 130,245
2 Claims. (Cl. 210—132)

1. A filter unit for fuel oil comprising a chamber member having inlet means for introducing fuel oil to be filtered into said chamber, a filter supporting member positioned in said chamber and having a filtered fuel oil conducting passage formed therein, said supporting member having a plurality of screen filter means secured thereto and communicating with said passage for filtering said fuel oil to remove foreign matter therefrom, discharge means communicating with said passage and extending out of said chamber for removing filtered fuel oil from said passage, a header member arranged on the exterior of said chamber and having a common wall therewith, means for introducing steam to said header member, said common wall having a plurality of



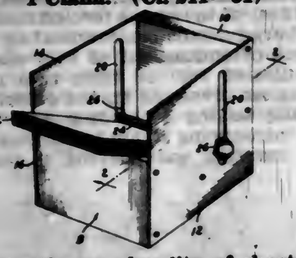
openings formed therein communicating with said chamber and said header forming nozzles for respectively directing high velocity jets of steam onto said screen filter means for removing the accumulation of fuel oil residue therefrom, some of said openings being angled approximately 15° with respect to the upper surfaces of said screen filter means and the remainder of said openings being angled approximately 15° with respect to the under surfaces of said screen filter means thereby to direct steam onto both surfaces of each of said screen filter means so as to remove the fuel oil residue from said screen filter means.

2,651,419
VIBRATING SCREEN
George Overstrom, Alhambra, Conrad Overstrom, Altadena, and Gustave A. Overstrom, Alhambra, Calif.
Application June 30, 1950, Serial No. 171,458
15 Claims. (Cl. 210—196)



15. In a screening apparatus of the type described the combination comprising an inclined screen box having a screen cloth of a length shorter than the length of said box mounted therein, means for resiliently supporting said box at each of the corners thereof, and vibration imparting means mounted on said box between the supporting means for the lower end of the box and the discharge end of said screen cloth.

2,651,420
HOLDER FOR GUMMED PAPER
Alfred W. Wray and Morton S. Baldwin, Detroit, Mich.
Application May 17, 1950, Serial No. 162,428
1 Claim. (Cl. 211—51)



In combination, a plurality of sheets of paper gummed on both sides and adapted to be vertically stacked, a retaining and dispensing container for said sheets comprising a box having three adjoining vertical retaining sides and a supporting base between two of said sides angling down to the third side, vertical slots in the two opposed sides reaching down to the angled base from a position near the top of said sides, a threaded shaft extending between said sides through said slots, weights on the ends of said shaft outside said slots for exerting gravitational force on said shaft, the surface of said shaft being threaded externally between said slots to present a plurality of relatively sharp edges to stacked sheets on the base of said container within the walls thereof whereby turning of said shaft will project the topmost sheet outward from its position within the container.

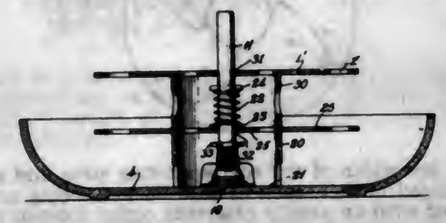
2,651,421
DISPLAY CARD
Elmore L. King, New Rochelle, N. Y., assignor to Affiliated Lithographers, Inc., New York, N. Y., a corporation of New York
Application November 30, 1951, Serial No. 259,080
7 Claims. (Cl. 211—55)



1. A display card comprising a front sheet and a backing sheet, said front sheet having a plurality of U-shaped slits therein, said slits forming a plurality of flaps, said backing sheet having a plurality of U-shaped slits therein forming a plurality of tabs, said last mentioned U-shaped slits in the backing sheet having the open end thereof opposite to the open end of said U-shaped slits in the front sheet, said flaps overlying said tabs.

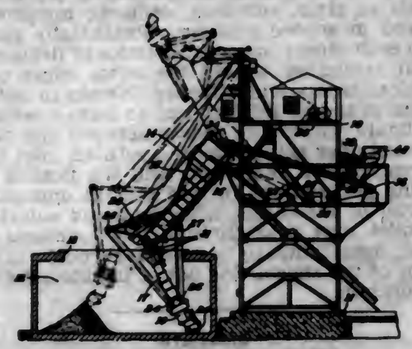
2,651,422
HOLDER FOR FLOWERS AND OTHER ARTICLES
Paul F. K. Erbguth, Great Neck, N. Y.
Application December 13, 1947, Serial No. 791,509
1 Claim. (Cl. 211—69)

In a flower holder of the type including upper and lower perforated, spaced plates and means for removably affixing the holder to the flat bottom of a bowl, the combination of a perforated tubular member centrally disposed with respect to the plates and having opposed ends secured to the plates, a post extending through said tubular member and through alined holes formed in the center of each plate, a first laterally-extending stop member secured to the post at a point between the two plates, a spring encircling said post said spring being compressed between the said first stop member and the lower plate and normally exerting an upward pressure on the post, a tubular base made of a resilient thermoplastic material and having an end secured to



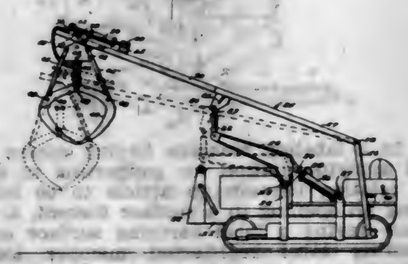
the lower plate said tubular base being substantially alined with the said tubular member, a second stop member secured to the post at a point within the said tubular base said second stop member being adapted to strike the lower plate and thereby limit the extent of upward movement of the post in response to the upward pressure exerted by the spring, and a flexible suction cup secured to the lower end of the post, the recited arrangement being such that a downward movement of the post will force the suction cup into frictional contact with the bowl bottom after which the holder will remain affixed to the bowl by reason of the downward pressure of the resilient, tubular base against the bowl surface and the upward pressure of the spring.

2,651,423
APPARATUS FOR LOADING BULK MATERIAL INTO A SHIP'S HOLD
Bennie A. Rose, Forest Hills, and Boris M. Osojnak, Pittsburgh, Pa., assignors to Heyl & Patterson, Inc., Pittsburgh, Pa., a corporation of Pennsylvania
Application February 2, 1951, Serial No. 209,152
3 Claims. (Cl. 214—14)



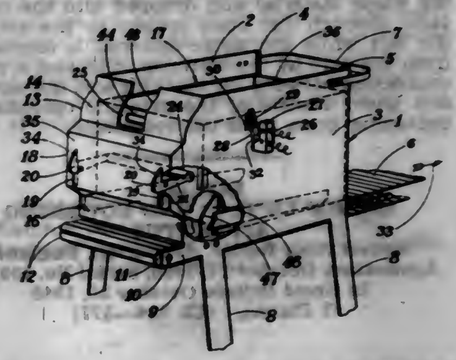
1. Apparatus for loading bulk material into a ship's hold or the like comprising a supporting structure, generally upright hollow delivery means through which bulk material being loaded passes downwardly, the delivery means having an open upper end, the delivery means being swingably supported by the supporting structure with its open upper end disposed below the top of the supporting structure, the delivery means having a discharge opening at its lower end, an adjustable control gate for the discharge opening controlling the rate of passage of bulk material out of the bottom of the delivery means, a conveyor for conveying bulk material into the open upper end of the delivery means, a variable speed drive for the conveyor, the portion of the delivery means at and for a substantial distance downwardly from the open upper end thereof being of relatively very great transverse cross-section as compared with the maximum transverse cross-section of the discharge opening and tapering to smaller cross-section toward the discharge opening so that bulk material filling the delivery means moves downwardly very slowly at the transversely enlarged upper portion thereof as compared with the rate of passage of the bulk material out of the bottom of the delivery means, an operating station on the supporting structure positioned to afford an operator at the station an unobstructed view down into the transversely enlarged open upper end of the delivery means and control means for the variable speed conveyor drive, the control means being disposed at the operating station enabling the operator while watching the relatively very slow downward movement of the bulk material at the transversely enlarged upper portion of the delivery means to operate the control means to control the speed of the conveyor and thereby maintain approximately constant the level of bulk material in the delivery means and avoid degradation of the bulk material which might occur due to its falling freely.

2,651,424
ANGULARLY ADJUSTABLE BOOM-SUSPENDED BUCKET
John M. Johnson, Floodwood, Minn.
Application November 10, 1949, Serial No. 126,611
2 Claims. (Cl. 214—147)



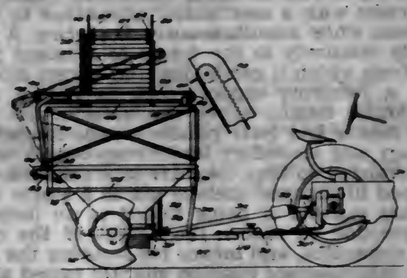
1. In a crane having an angularly adjustable boom, a shaft journaled on the boom for rotary movement about an axis transverse to the longitudinal axis of the boom, a plate fixed to the shaft with the face of the plate parallel to the axis of the shaft, a member rotatably superimposed on the plate, a pin carried by the member and rotatably extending through the plate, a supporting structure suspended on the pin and secured to the pin for rotation therewith, said pin and supporting structure being free to hang vertically in all angular positions of the boom by virtue of the rotation of said shaft, a grappling member secured to the supporting structure, an arm extending from the member, and hydraulic actuating means carried by the boom and operatively connected to the arm for rotating the pin and grappling member.

2,651,425
CONTAINER TRANSFERRING APPARATUS
Lewis B. Simon, Flushing, N. Y.
Application January 24, 1947, Serial No. 724,201
11 Claims. (Cl. 214—307)



10. The combination of a housing having a control, a container having devices defining compartments for bottles, and a base laterally slidable in said container and having supports registering with said compartments in the first position of said base and clearing said compartments in the second position of said base, said control engaging said base and actuating it from its first position to its second position when inserting said container into said housing to enable the bottles supported on said supports to be liberated and deposited in said housing.

2,651,426
VEGETABLE CART
John W. Orendorff, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey
Continuation of abandoned application Serial No. 637,029, December 22, 1945. This application July 6, 1951, Serial No. 235,550
17 Claims. (Cl. 214—355)



17. A vegetable cart for attachment to a machine for harvesting beets or the like to receive the beets discharged therefrom comprising a frame, ground wheels supporting the frame, a rectangular receptacle carried by the frame having vertically extending side walls defining an opening in the top to receive beets discharged from a source located thereabove, an endless conveyor belt extending between opposite walls over the opening in said receptacle in the path of beets discharged therein, said belt having a substantially unbroken surface and being of less width than the receptacle opening to provide open spaces between the conveyor and opposite side walls, said walls including downwardly converging lower portions, an elevator forming a part of the bottom and one wall for unloading

beets from the receptacle, means for driving the conveyor belt from the ground wheels, platforms carried by the receptacle at opposite sides of the conveyor belt to accommodate operators, whereby the beets may be manually separated from the waste material and dropped into the receptacle through the open spaces at the sides of the belt while the waste material is discharged from the cart by the conveyor belt, and a power connection between the machine and the elevator and under control of the machine operator for unloading beets from the receptacle.

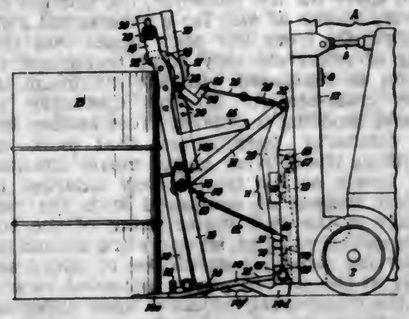
2,651,427
MOBILE LIFTING AND LOWERING APPARATUS
Robert Alan Butler, Ashburton, England
Application October 17, 1950, Serial No. 190,591
In Great Britain October 29, 1949
7 Claims. (Cl. 214—377)



1. Apparatus for lifting and loading comprising, in combination, a wheeled frame having wheeling handles, lever means freely pivoted on said frame and capable of extending substantially vertically downwards and having attachment means for connection to a load, said lever means being arranged and dimensioned so that it can be attached to a load resting on the ground while in a substantially vertical position, lever handle means operable about the same pivot as said lever means to swing the latter relative to the frame with a mechanical advantage to raise the load while simultaneously displacing it outwardly relatively to the frame to a raised position from which it can be lowered to rest directly upon a receiving support such as vehicle at a substantial height above the ground, the said lever means and lever handle means comprising primary and secondary levers respectively which are arranged so that they are interengaged during load lifting and thereby act as a single lever and are capable of being folded to an inoperative position to reduce the height of the complete apparatus, and means for securing the load in an intermediate position slightly raised above the ground in which position the load can be wheeled without requiring operation of said lever handle means.

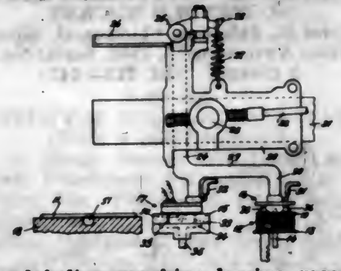
2,651,428
LIFT TRUCK AND ATTACHMENT THEREFOR
Benjamin A. Dickson, Paoli, Pa., assignor to Terminal Warehouse Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 2, 1950, Serial No. 147,310
8 Claims. (Cl. 214—654)

1. In a lift truck, a truck body, a tiltable mast thereon, a carriage movable up and down on said mast, a load carrying member supported by said carriage, a tool for gripping the load, a support for the load gripping device including a tool holder arm mounted for forward and backward swinging movement on said load carrying member, an independently mounted rocker arm, a slotted connection attaching said rocker arm to said tool holder arm, said rocker arm being effective to actuate forward and backward swinging movement of said tool holder arm but movable up and down independently of said tool



holder arm, and mechanism connected to said mast and to said rocker arm for swinging said rocker arm with respect to said carriage in response to the tilt of the mast, whereby said gripping device is adapted to incline the load preparatory to its being lifted by said load carrying member.

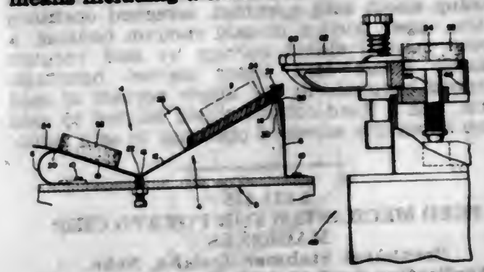
2,651,429
LABEL APPLYING MECHANISM
George W. von Hofe, Bound Brook, N. J., assignor to New Jersey Machine Corporation, Hoboken, N. J., a corporation of New Jersey
Application December 21, 1950, Serial No. 202,001
8 Claims. (Cl. 216—55)



1. In a labeling machine having means at a label applying station for supporting in shiftable relation thereon an article to be labeled having an opening in a surface thereof, a label carrier having a label carrying surface and a projecting label registering member located within the area of said surface, said registering member being adapted to extend through an aperture of a label carried by said surface to properly register such label on such surface and at said applying station to coact with the opening in the surface of the shiftable article to bring the article and the label on such carrying surface into proper registry, means for heating said label carrying surface, and means for maintaining said registering member at a lower temperature than said heated label carrying surface.

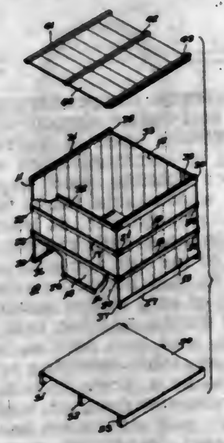
2,651,430
PATTY RECEIVING DEVICE
Louis X. Garfunkel, New York, N. Y.
Application June 1, 1951, Serial No. 229,446
5 Claims. (Cl. 216—58)

1. A device for receiving a patty of hamburger and the like comprising a body portion including a main chute having an upper end and a lower end, a stack of wafers, and means for releasably holding said stack of wafers upon and near the upper end of said chute, said holding means including a hole in said body portion and



a rod having a head inserted in said hole, said device being so constructed and arranged that when said patty is deposited upon the top of said stack, the top wafer will be released from said holding means, and said patty will slide down to the lower end of said chute upon said top wafer.

2,651,431
PACKING CRATE
Johan Simon Johnson, Chicago, Ill., assignor to Bigelow-Garvey Lumber Co., Chicago, Ill., a corporation of Illinois
Application October 12, 1950, Serial No. 189,804
1 Claim. (Cl. 217—16)



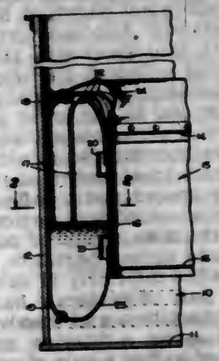
A shipping container of rectangular configuration comprising side walls flexibly connected together and top and bottom closure sections therefor, each side wall comprising a wooden panel and exterior vertically spaced horizontally extending wooden battens along the top and bottom edges of said side walls and also their mid-sections, two opposite side walls being longer than the remaining two, battens along the inner edges of said longer side walls, the inwardly facing longitudinal edges of said last named battens lying in the plane of the adjacent end edges of the other two walls of said box, wire loops hingedly connecting said side walls at their mid-sections through the battens, said side walls being further hingedly connected together at two diagonally opposite top corners through the ends of the top battens and at two diagonally opposite bottom corners through the ends of the bottom battens, the hinged top corners being diagonally positioned with respect to the hinged bottom corners, the remaining top and bottom corners being free and unconnected, said top and bottom sections each carrying edge battens spaced inwardly from opposite edges by an amount about equal to the thickness of the battens carried along the top and bottom inner edges of the longer side walls, the ends of the battens of the top and bottom sections also overhanging and contacting the ends of the shorter side walls, whereby upon insertion into place said top and bottom sections are held by resiliency of the sides under the battens along the inner top edges of said longer side walls.

2,651,432
SEALED SHIPPING CONTAINER
Ralph S. McConnell, Silver Spring, Md.
Application February 16, 1950, Serial No. 144,450
1 Claim. (Cl. 217—89)



A shipping container comprising a cylindrical body formed of staves, cleats secured to said staves inwardly of each end thereof, a pair of disc-shaped heads disposed one in each end of said body and bearing against said cleats, an annular rim secured to the outer side of said head, said rim being L-shaped in transverse section with one side disposed in face abutting relation to the outer face of said head, the other side of said rim being flush with the marginal edge of said head and projecting outwardly of said head in confronting position with respect to the adjacent end portions of said body, a plurality of U-shaped clips at each end of said container, said clips engaging over the ends of said staves and overlapping said other side of said rim, each leg of each clip and associated stave and overlapped side of said rim having aligned openings, a headed pin extending through said aligned openings, an apertured lug extending from the bight of said clip and projecting radially inwardly with respect to said head, said pin having an opening, and a sealing wire extending through the opening of said lug and said pin.

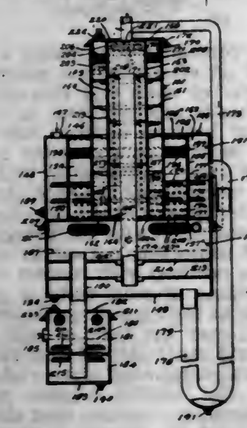
2,651,433
TANK WITH FLOATING ROOF
Frantz O. Mjellem, Alhambra, Calif., assignor to American Pipe & Steel Corporation, Alhambra, Calif., a corporation of Nevada
Application August 24, 1951, Serial No. 243,409
3 Claims. (Cl. 220—26)



1. In a liquid storage tank having a floating roof, shoes engageable with the inside faces of the walls of the tank, upwardly open pockets on

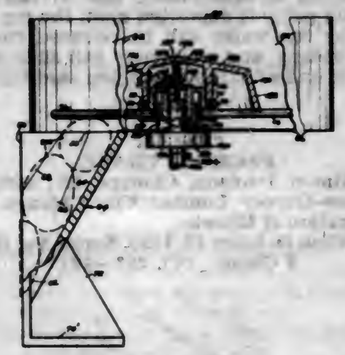
the sides of the floating roof, downwardly open pockets on the sides of the roof, leaf springs secured to the shoes extending downwardly into the upwardly open pockets and leaf springs secured to the shoes extending upwardly into the downwardly open pockets, the spacing between the ends of the springs being greater than the spacing between the backs of the pockets whereby the roof may have a limited free movement independent of the shoes but when movements of the roof are great, the leaf springs will be engaged by the backs of the pockets causing the shoes to be shifted sympathetically with the roof relatively to the tank walls.

2,651,434
LIQUID SEAL TRAP
Keith M. Adair, Eugene, Oreg.
Application June 5, 1950, Serial No. 166,163
2 Claims. (Cl. 220—85)



1. A liquid sealing device for attachment to the vent of a tank comprising a housing having side, top and bottom walls, means carried by said top wall for connecting said housing to said vent, an inner horizontal wall dividing said housing into upper and lower chambers, an overflow pipe connecting said upper chamber with said lower chamber, a vacuum housing disposed partly in said upper chamber and partly above said top wall, said vacuum housing communicating at its lower portion with said upper chamber, a vent nipple extending from the upper closed end of said vacuum housing, a pipe connecting the upper portion of said lower chamber with said nipple, a perforate cylindrical partition in said vacuum housing, a centrally disposed vertical pipe projecting through said inner wall and terminating at its upper end adjacent the upper portion of said vacuum housing, said vertical pipe terminating at its lower end in the lower portion of said lower chamber, a perforate cylindrical partition in said vacuum housing about said vertical pipe, vertically spaced apart baffles about said partition, vertically spaced apart baffles interiorly of said partition, a cylindrical perforate partition in said upper chamber, a pair of perforate baffles about said second named partition, a second pair of perforate baffles interiorly of said second partition, a third pair of perforate baffles interiorly of said second partition and disposed above said second pair of baffles, a filtering means between said third pair of baffles, a pair of perforate upper baffles in the upper portion of said vacuum housing, a filtering means between said upper pair of baffles, a sump below said first housing, a pipe connecting said lower chamber with said sump, said sump having an overflow opening in the side wall thereof, spaced perforate baffles in said sump, screened openings in the upper portion of said first housing, a conical shield carried by said first housing about said openings, screened openings in the upper portion of said vacuum housing, a second conical shield carried by said vacuum housing about said latter named openings, screened openings in the upper portion of said sump, and a third conical shield carried by said sump about the screened openings in said sump.

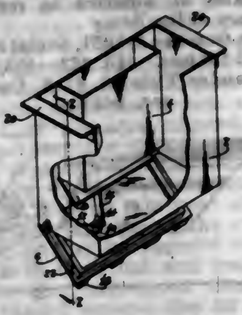
2,651,435
FEED MECHANISM FOR POTATO CHIP MACHINES
Bernhardt Stahmer, Omaha, Nebr.
Application April 12, 1950, Serial No. 155,527
2 Claims. (Cl. 222—9)



1. A potato feeder comprising a potato hopper having inlet and outlet openings, a feed chute having an entrance opening, said hopper outlet opening being in communication with said feed chute entrance opening, said hopper having a bottom wall; a rotatable shaft having an end extending into said hopper; at least one member transversely disposed with respect to said shaft and attached to the end thereof; a spider rotatably secured in said hopper above said bottom wall, the arms of said spider passing across said outlet opening during rotation, said spider having a hub portion, said hub portion having a bore therethrough rotatably receiving said shaft, said hub portion having a recess therein normally receiving said transverse member, said recess opening downwardly, and said recess being sufficiently shallow and said transverse member and the walls of said recess being so shaped that when potatoes clogging said chute cause said spider to cease rotation said transverse member escapes from said recess rotating independently of said hub.

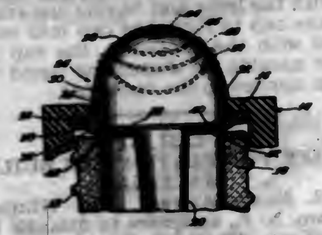
2,651,436
CONTAINER FOR HOLDING AND TRANSPORTING MATERIALS TO BE HELD SEPARATELY
Maurice Fitzgerald, Yonkers, N. Y., assignor to Sho-Me, Inc., New York, N. Y., a corporation of New York
Application May 25, 1950, Serial No. 164,065
4 Claims. (Cl. 222—145)

1. A receptacle for holding materials separately comprising, an outer container, an inner container, said inner container attached to one side of said outer container, a bottom hinged to said outer container, a bottom hinged to said inner container, means extending in a substantially vertical plane and interconnecting said bottoms to cause both bottoms to swing in unison, means on said outer container to hold said inner container in a vertical plane, means on the bottom



of said outer containers to prevent said materials from seeping outwardly, and means on the bottom of said outer container to prevent side motion of the receptacle.

2,651,437
MEDICINE DROPPER
Mack R. Fields, Libertyville, Ill., assignor to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois
Application October 4, 1950, Serial No. 188,423
7 Claims. (Cl. 222—206)

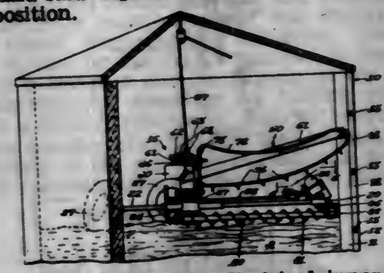


2. In a medicine dropper assembly, in combination: a pipette; said pipette being of polyethylene plastic of a type chemically inert to oil and not wetted by water; aspirating means defining an enclosed enlargement of the space inside said pipette; said enlargement being above said pipette and in open communication with the upper end thereof; said aspirating means normally having maximum internal volume; the lower end of said pipette remaining open; said aspirating means being a polyethylene plastic cap including a thin-walled outwardly concave spherical dome, evertable inwardly for volume reduction; said pipette having a top flange substantially normal to the pipette axis and extending radially out beyond the pipette wall a distance at least equal to the pipette radius; said plastic cap having a radial annular portion of equal diameter of said pipette flange the outer edge of said flange being fused or welded to said annular portion of said aspirating means.

2,651,438
SILO UNLOADER
Walter R. Peterson, Hinsdale, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application November 28, 1947, Serial No. 788,528
9 Claims. (Cl. 222—254)

1. For a silo having a cylindrical vertically extending wall structure, a silo unloading device

comprising a structure supported entirely on the top surface of packed ensilage within a silo and being free to descend with the level of the ensilage as it is removed from the silo, said structure including a stationary supporting member, a wheeled frame connected to said supporting member for circumferential rotation about a vertical axis, an auger carried by said frame and movable therewith to remove portions from the surface of the packed ensilage, leveling means for retaining said auger in a level circumferential rotating position comprising an arm pivotally connected to said frame and having a portion thereof connected to said auger, adjustable means connected to said arm including a rotating member rotatable for pivotally moving said arm and for vertically adjusting the auger relative to said frame, a driving member rotatably carried on said stationary supporting member, said driving member having a pair of spaced rotating surfaces, a pendulum pivotally connected to said supporting member, said pendulum being connected to said rotating member and arranged to support said rotating member in a level horizontal position whereby during an angular rotating position of said frame said rotating member engages either of said spaced rotating surfaces of said driving members, whereupon said rotating member is rotated and said arm is pivoted to compensate for the angularity of said frame and said auger is retained in a level operating position.

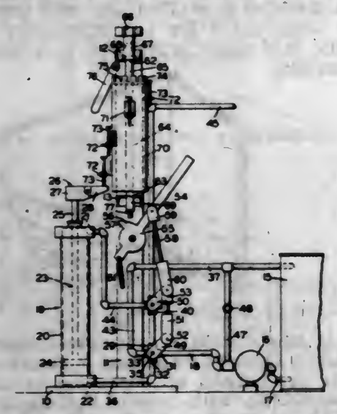


3. For a silo having a cylindrical inner wall, an unloading device comprising a structure supported on the packed ensilage and arranged to move downwardly with respect thereto upon the lowering of the ensilage level, said structure including a stationary supporting member, a spider shaped frame journalled on said supporting member for rotating movement about a vertical axis, said frame including a plurality of radially extending arms, wheels rotatably connected to said arms, said wheels being positioned circumferentially adjacent the cylindrical wall of said silo and arranged to support said structure on the top surface of said ensilage, means for rotating said frame including, a power unit supported on said stationary supporting member and portable therewith, transmission means connecting said wheels and said power unit, an auger connected to said frame and arranged to rotate circumferentially therewith, drive means connecting said auger and said power unit for operating said auger from said power unit thereby removing portions of said ensilage, and a conveyor arranged to receive said ensilage and discharge the same from said silo.

2,651,439
LIQUID METERING DISPENSER
Arthur M. Stevenson, Antwerp, Ohio
Application September 8, 1950, Serial No. 183,824
10 Claims. (Cl. 222—255)

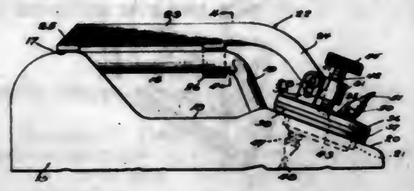
1. A liquid metering dispenser comprising a pump including a cylinder having a loading-dis-

charge end and an unloading-inlet end, said cylinder having a plunger reciprocably mounted therein, said plunger carrying an actuating pawl externally of said cylinder; a liquid reservoir; a second pump adapted to receive liquid from said reservoir; a first valve structure adapted to receive liquid under pressure from said second pump; an unloading-inlet conduit providing liquid communication between said valve structure and the unloading-inlet end of said cylinder; an unloading conduit providing liquid communication between said valve structure and said reservoir; a second valve structure having liquid communication with said first valve structure; a loading-discharge conduit providing liquid communication between said second valve structure and said loading-discharge end of said cylinder; a discharge conduit having one end connected to said second valve structure; linkage operatively interconnecting said first and second valve structures whereby said valve structures are operated in unison; a valve actuating lever connected to said linkage having a first position in which liquid under pressure is introduced into the loading-discharge end of said cylinder through said first valve structure, said second valve structure, and said loading-discharge conduit to move said plunger toward said unloading-inlet end and load



said cylinder with liquid and the unloading-inlet end of the cylinder is placed in liquid communication with said reservoir through said unloading-inlet conduit, said first valve structure, and said unloading conduit, said lever being manually movable to a second position wherein liquid under pressure is introduced into the unloading end of said cylinder through said first valve structure and said unloading-inlet conduit to move said plunger toward said loading-discharge end and the loading-discharge end of said cylinder is placed in liquid communication with said discharge conduit through said loading-discharge conduit and said second valve structure; spring means attached to said valve actuating lever for continually urging said lever to said first position; a slidable catch element engageable with said lever for locking said lever in said second position; a selection drum rigidly attached to said catch element, said drum having a plurality of circumferentially, longitudinally spaced lugs projecting radially therefrom, said lugs each being selectively positionable in the path taken by said actuating pawl during the movement of the plunger toward said loading-discharge end to disengage said catch element from said lever; and releasable locking means for maintaining any one of said lugs in the path of said pawl.

2,651,440
GRAVITY FEED ADAPTER FOR SHEET METAL CONTAINERS
Edward C. Hobbs, Louisville, Ky., assignor to the United States of America as represented by the Secretary of the Army
Application October 5, 1951, Serial No. 250,905
12 Claims. (Cl. 222—473)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. An adapter for a liquid container having a discharge opening and a handle arranged near one side of the opening comprising a lever provided between its ends with a hook engageable beneath the handle for forming a fulcrum for the lever, one end of the lever being adapted to contact the container to resist turning of the lever in one direction about the fulcrum, the other end of the lever terminating near and outwardly of the discharge opening, a non-rotatable cap pivotally connected with the lever near its last-mentioned end and having a compressible gasket for engagement with the container around the discharge opening, and an adjusting screw connected with the lever and having one end bearing against the cap to force the cap into sealing engagement with the container, the cap having a discharge opening for dispensing liquid while the adapter is applied to the container.

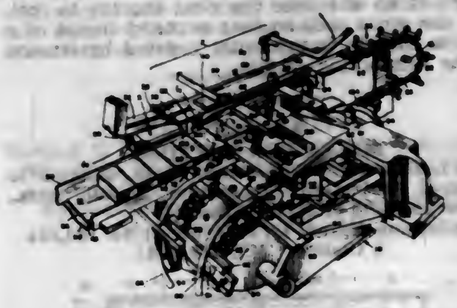
2,651,441
CARRIER FOR PLATE-FORM BUILDING MATERIAL
Robert S. Rau, Fanwood, and Winfield Rau, Chatham, N. J., assignors to Atlantic Builder's Supply Corp., Chatham, N. J., a corporation of New Jersey
Application April 11, 1950, Serial No. 155,186
1 Claim. (Cl. 224—5)



A shoulder-suspended carrier for plate-form building material adapted to be used by one of a pair of bearers to support one end of a heavy load in an upright plane leaning against the near side of the bearers' bodies with the bottom edge of the load substantially knee-high, whereby each bearer will have hands free for grasping the end and top edges of the load to steady the same, said carrier comprising: a body harness

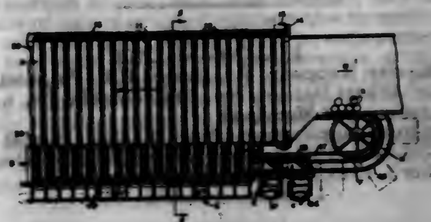
including a pair of mutually cooperative primary suspension slings of loop form, one of said slings being adapted to embrace and hang directly downward from the bearer's near shoulder and the other sling being adapted to embrace the bearer's off shoulder and body and to extend diagonally across the body to a point of convergence with the first-mentioned sling alongside the near hip flank; a concentration member of ring form fixedly connected to and supported by said diagonal off shoulder suspension sling at the point of convergence of both slings and having said near shoulder suspension sling threaded therethrough for free sliding adjustment; a retainer strap to prevent said near shoulder suspension sling from slipping off the shoulder, said retainer strap having its opposite ends engaged respectively with the front and rear reaches of said near shoulder suspension sling and being adapted to extend around the off side of the bearer's body, whereby the retainer strap may be tightened and loosened in its body embracing grip by lengthwise manual adjustment of said near shoulder suspension sling through the concentration ring; and load-engaging means supported by the concentration member.

2,651,442
CARTON FILLING MACHINE
Clarence J. Malhiot, Chicago, Ill., assignor to F. B. Redington Co., Chicago, Ill., a corporation of Delaware
Application August 29, 1950, Serial No. 181,964
19 Claims. (Cl. 226—2)



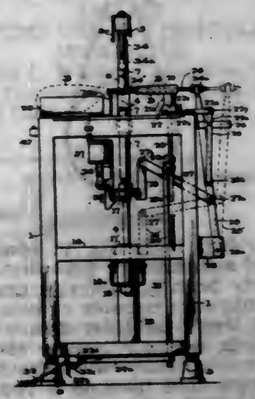
1. In a carton filling machine, a carton conveyor adapted to receive thereon a series of open-ended cartons, a filler conveyor, an article conveyor disposed between said other conveyors, the upper runs of said conveyors existing in side-by-side relationship and having a common overlapping portion constituting a filling zone, means for moving said conveyors continuously, a series of filler slides mounted on and movable with the filler conveyor, means operable during passage of each filler slide through said filling zone for moving the slide toward the article and carton conveyors to engage an article on the former conveyor and force the same into a carton on the latter conveyor, and means carried by each filler slide adapted to engage the next succeeding article on the article conveyor to align the same with the open end of the next succeeding carton on the carton conveyor while said slide is operating to force an article into a carton.

2,651,443
BAG HOLDER, CARRIAGE, AND TRACK ASSEMBLY
Jack W. Carter, Winter Haven, Fla., assignor to Fulton Bag & Cotton Mills, Atlanta, Ga., a corporation of Georgia
Application July 31, 1947, Serial No. 765,136
15 Claims. (Cl. 226—18)



7. Apparatus for filling bags with fruit or other spherical objects, including loading and discharging stations, which comprises, in combination, a machine frame, a carriage and track assembly carried thereby, and including a carriage-supporting track, an endless conveyor associated therewith, and a plurality of bag holder carriage elements adapted to supportingly travel on said track, each of the carriage elements including collapsible jaw members adapted to engage in the open mouth of a bag and expansible to supportingly carry the said bag during its filling travel through the machine, feeding means carried by the frame adapted to supply the fruit to the bags and mechanism on the carriage elements for operating the feeding means through a selected interval of time for supplying the same number of articles of fruit to each bag responsively to the movement of the bag by the carriage elements into article-receiving position.

2,651,444
BAG SEALING MACHINE
Francis R. Casey, Concord, Robert Reed Woodcock, Weymouth, and Manson E. Wood, Wakefield, Mass., assignors to Dewey and Almy Chemical Company, North Cambridge, Mass., a corporation of Massachusetts
Application November 26, 1947, Serial No. 788,262
2 Claims. (Cl. 226—56)



1. A machine for evacuating and sealing flexible bags which have been filled with material to be packaged comprising, in combination, a pair of opposed sealing jaws normally maintained in open position, a support for said bag and contents arranged on one side of said jaws, an evacu-

ating nozzle arranged on the opposite side of said jaws in a position to support and substantially fill the mouth of the bag, means for closing said jaws on the neck of said bag, and means operated in timed relation with the closing of said jaws for shifting said nozzle towards said jaws to relieve the tension on the neck of said bag during sealing thereof.

2,651,445
FILLING NOZZLE
Ridgway Kennedy, Jr., Drexel Hill, Pa., assignor to Abbott Dairies, Inc., Philadelphia, Pa., a corporation of Maryland
Original application June 4, 1947, Serial No. 752,537. Divided and this application December 5, 1949, Serial No. 131,228
1 Claim. (Cl. 226—95)



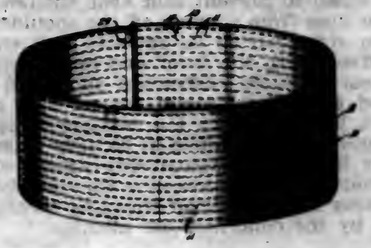
Apparatus of the class described comprising a pipe having a discharge nozzle at its lower end approximately of frusto-conical shape, said discharge nozzle having its smaller end uppermost, one side of said nozzle being radially abbreviated by a transversely disposed approximately flat wall occupying the position of a slanting geometrical chord of the cone in which the frusto-conical portion of said nozzle lies, the lower edge of said frusto-conical portion being planular, and said side being cut away to form a bottom lip elevated with respect to said lower edge to clear the adjacent edge portions of containers therebeneath and movable transversely relatively thereto.

2,651,446
SAFETY BELT WITH DRAWABLE SAFETY BAND
Clarence W. Rose, Denver, Colo.
Application August 29, 1951, Serial No. 244,269
8 Claims. (Cl. 227—49)



1. A safety belt including, in combination, a waist band of substantially non-stretchable material, a safety band of undrawn drawable material, of a character capable of being drawn to a permanent length at least double its normal undrawn length, normally snugly encircling the waist band substantially throughout its body-encircling length and forming a two-layer belt, means for securing said belt around the body of a wearer, means for securing the end portions of the safety band to the end portions of the waist band when the belt is secured around the wearer's body, the safety band being otherwise separable from the waist band responsive to abnormal stress, and a member engaging the safety band, normally substantially spaced along said belt from said waist-band-securing means, and adapted to interengage the safety band with an anchored life-line.

2,651,447
STORAGE BIN
Charles R. Seaborne, Appleton, Wis., assignor to Thilmany Pulp & Paper Company, Kaukauna, Wis., a corporation of Delaware
Application July 7, 1949, Serial No. 103,416
2 Claims. (Cl. 229—4.5)



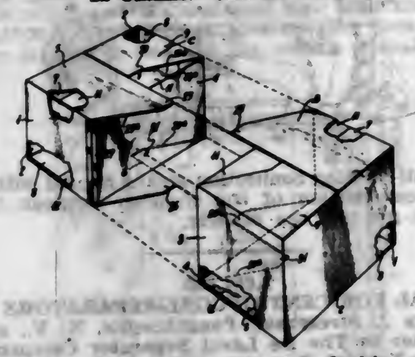
1. A storage bin comprising a panel of impervious multi-ply fabriclike material reinforced by a plurality of spaced flat flexible metallic straps extending horizontally from end to end thereof between two of the plies, the composite panel being disposed vertically in cylindrical enclosure form with the ends overlapped and the opposite ends of some of the reinforcing straps in overlapping register with each other, a cleat within the enclosure at the overlapping region of the panel, and securing means passing through overlapped strap ends into the cleat thereby to connect the strap ends so that outward thrust of a load in the bin is primarily resisted by tension in the reinforcing straps.

2,651,448
FILLER FOR CARTONS
John L. Dussault, Chelmsford, Mass., assignor to Patent Protection Corporation, Lowell, Mass., a corporation of Massachusetts
Application August 19, 1950, Serial No. 180,324
2 Claims. (Cl. 229—14)



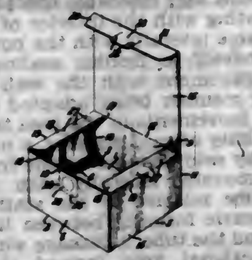
1. A corner filler to cushion the rounded end of a boat-shaped article from movement in a rectangular container, said filler comprising an elongated strip of corrugated paper board or the like, bent at spaced transverse lines into a plurality of fibrous hinged panels which define a primary right triangular air space divided into two secondary right triangles, each of the opposite end panels of the strip overlying a portion of the hypotenuse panel of the primary triangle to present an hypotenuse panel of double thickness of paper board, each hypotenuse panel of the secondary triangle being positioned at right angles to each other and the intermediate panels of each secondary triangle meeting to form a central web of double thickness extending perpendicularly from the hypotenuse of the primary triangle to the right angular corner of said filler.

2,651,449
CONTAINER CONSTRUCTION
Edward N. Burnett, San Lorenzo, Calif., assignor to Gerber Products Company, Fremont, Mich., a corporation of Michigan
Application January 28, 1950, Serial No. 141,150
12 Claims. (Cl. 229—33)



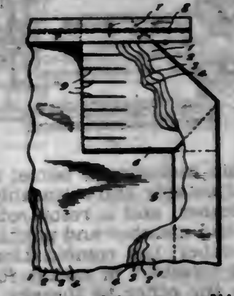
1. A box unit adapted for interlocking with a complementary box unit to form a unitary box construction comprising a hollow rectangular parallelepiped container, and four flaps constituting extensions of side members of said container and closing the top thereof, a first pair of flaps folded downwardly from opposite side edges, a second pair of flaps overlying said first pair of flaps folded downwardly from opposite side edges and meeting approximately along the center of the top of said container, one of said flaps of said second pair of flaps having a projecting ear extending beyond the confines of said container, and the other of said flaps of said second pair of flaps having a cut-out portion dimensioned and positioned to receive the projecting ear of a complementary box unit.

2,651,450
SEALED CONTAINER
Ransom C. Ellsworth, Rittman, Ohio, assignor to The Ohio Boxboard Company, Rittman, Ohio, a corporation of Ohio
Application May 8, 1950, Serial No. 160,715
1 Claim. (Cl. 229—44)



In a paperboard container, a bottom, a front wall member, a back wall member, and similar end wall members, all upstanding from said bottom, and a cover hinged to said back wall member and carrying at its edge opposite said hinge a tuck-in flap defined from the cover by a folding score, said flap having laterally spaced cuts extending inwardly from its free edge and terminating short of said folding score, said cuts providing a tongue portion between them, the front wall member having adjacent to its upper edge means defining a frangible portion of substantially the same area as said tongue portion, said defining means including slits of a length inwardly from said upper edge substantially equal to the distance from the termini of the cuts in said flap to said folding score, said cover when in closed condition having the portions of its tuck-in flap flanking its tongue portion inserted inwardly of and in face to face contact with said front wall member, its tongue portion arranged outwardly of and overlying and secured to the frangible portion of said front wall member, and the portion of said flap lying between the termini of said cuts and said folding score in engagement with said slits, the secured arrangement of said tongue portion and frangible portion thus providing a means whereby by the exertion of inwardly directed pressure upon the tongue portion the said frangible portion may be separated from said front wall member and the cover opened.

2,651,451
VALVE BAG
Richard F. Bennett, New Hope, Pa., assignor to Universal Paper Bag Co., New Hope, Pa., a corporation of Pennsylvania
Application April 18, 1950, Serial No. 156,593
1 Claim. (Cl. 229—62.5)



A valve bag comprising a multi-ply body having a longitudinal gusset and having a top corner folded in at the gusset to form a multi-ply valve, said valve having a series of slits extending outwardly from the inner edge of each and every ply thereof forming a series of superimposed fringes comprising a multiplicity of flexible, independently movable fringe elements which are free to adjust themselves in any direction.

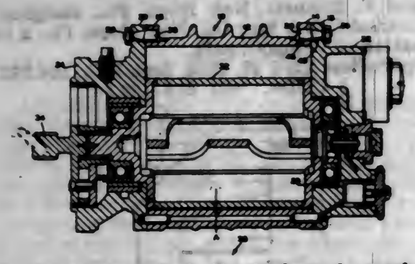
2,651,452
JET PUMP FOR JET PROPULSIVE APPARATUS
Charles C. Whitaa, Columbus, Ohio
Application December 4, 1946, Serial No. 714,006
2 Claims. (Cl. 230—103)



1. Jet pump apparatus comprising: a cylinder having an inlet at one end and an outlet at its opposite end; a partition structure arranged in said cylinder intermediate the ends thereof and defining an open-ended tube disposed in spaced axial alignment with the inlet of said cylinder for conducting at least a part of a first working fluid introduced to said inlet longitudinally and axially of said cylinder; a plurality of radially extending webs formed on said partition structure and de-

fining a plurality of radially disposed channels around said tube, each of said channels having one end thereof in fluid communication with the inlet of said cylinder for conducting a portion of the first working fluid longitudinally of said cylinder in a stream parallel to said tube; and means formed in said cylinder and communicating with each of said channels for introducing a second working fluid under pressure in directions substantially perpendicular to the direction of flow of the first-named fluid through said channels.

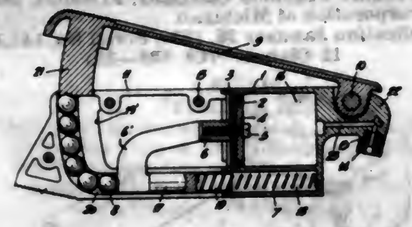
2,651,453
ADJUSTABLE DOWEL PIN
Arthur H. Le Febvre, Washington Township, Bergen County, and David E. D. Smith, Newark, N. J., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application May 20, 1949, Serial No. 94,408
3 Claims. (Cl. 230—151)



1. In a pump including a barrel member, an end member adjustably and releasably secured to said barrel member, and a rotor rotatably supported in said end member and positioned within said barrel member, the combination with said barrel and end members of means for adjusting one relative to the other to thereby adjust said rotor relative to said barrel member, said means comprising a dowel pin having a cylindrical portion and a tapered portion coextensive therewith, one of said members having a cylindrical seat formed therein to receive the cylindrical portion of said dowel pin, the other of said members having a tapered seat formed therein to receive the tapered section of said dowel pin, the center lines of the cylindrical and tapered portions of said dowel pin being offset relative to each other, whereby said dowel pin is effective upon rotation to adjust one of said members relative to the other to thereby adjust said rotor relative to said barrel member, and means for fixedly securing the tapered portion of said dowel pin to said one member whereby said members may be disassembled and reassembled without effecting the relative position of said barrel member to said rotor.

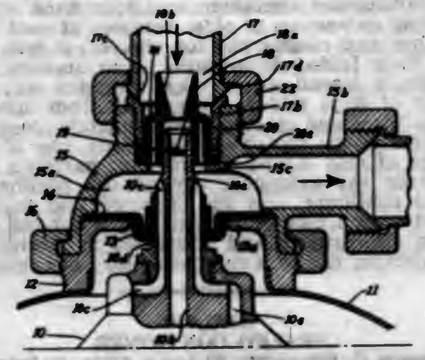
2,651,454
FOOT PUMP
Thure Hjalmar Bjurström, Hallstahammar, Sweden
Application June 7, 1950, Serial No. 166,637
In Sweden June 21, 1948
7 Claims. (Cl. 230—172)

1. A foot pump comprising a housing provided at the forward end with a cylinder having an air discharge outlet and with a chamber therebeneath and parallel thereto, a spring in the chamber, a piston head in the cylinder, a piston rod extending from the head and having the outer portion bent upon itself and arranged in sliding engagement with the chamber against the tension of the spring, a foot lever pivotally connected to the top of the front part of the housing and extending above the housing, a plunger depending from the under surface of the foot lever, and



an anti-friction connection means housed within the rear portion of the chamber between the piston rod and the plunger.

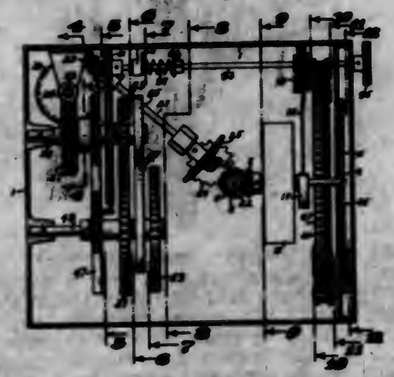
2,651,455
SEAL FOR CENTRIFUGAL SEPARATORS
George J. Strezynski, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application July 7, 1950, Serial No. 172,596
8 Claims. (Cl. 233—21)



1. In a centrifuge having a rotary centrifugal bowl and a stationary structure including a feed pipe for delivering material to the bowl, the combination of a hollow feed tube projecting axially from the bowl and rotatable therewith, the tube communicating with the interior of the bowl and being movable laterally with the bowl incident to rotation thereof, a flexible sealing member in sealing engagement with the wall of the tube, the sealing member being adapted to partake of the lateral movements of the feed tube by reason of the flexiblity of said member, a nozzle member supported by said member at the free end of the tube and movable laterally with said member and the tube relative to the stationary structure, the nozzle forming between the stationary feed pipe and the tube, a passage which decreases in cross-sectional area toward the tube, and means for securing part of the sealing member to the stationary structure in fixed relation thereto to form a seal between the wall of said pipe and the wall of the tube.

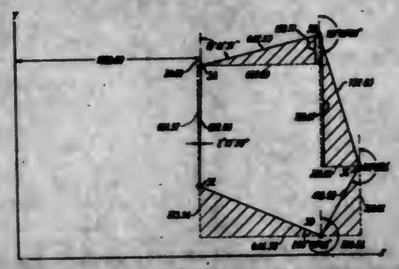
2,651,456
TRIP TIMING METER
Harold A. Highstone, Santa Rosa, Calif.
Application March 1, 1949, Serial No. 79,069
7 Claims. (Cl. 235—61)

1. A vehicular meter comprising a logarithmic scale calibrated in time units, a speedometer motor adapted for actuation in response to motion of a vehicle, said scale and motor being relatively movable, an index driven by said motor positioned to read decreasing quantities against said scale with increase of speed, means for restraining said index to limit motion thereof to a deflection in proportion to the logarithm of the speed of said vehicle, means for presetting the relative positions of said time scale and said motor in accordance with a selected distance to be traversed, and driving means actuated by



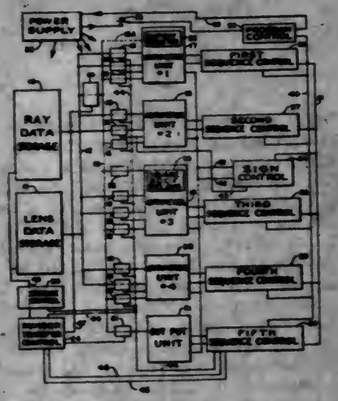
movement of said vehicle to actuate said speedometer motor and simultaneously change the relative positions of said motor and said scale by an amount proportional to the logarithm of said selected distance minus the distance traveled, said restraining means and driving means being proportioned to produce equal relative changes in the positions of said index and scale for equal proportional increases in the speed of said vehicle and decreases in the portion remaining of said selected distance.

2,651,457
CALCULATING MACHINE
Hans P. Luhn, Armonk, and Richard L. Johnsen, Wappingers Falls, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application May 12, 1949, Serial No. 92,996
14 Claims. (Cl. 235—61)



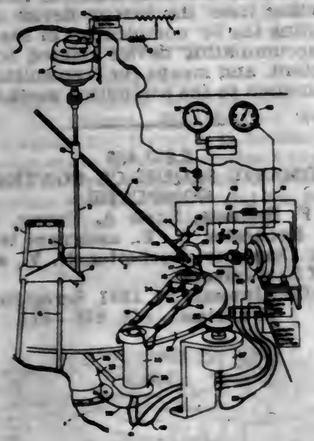
1. In a machine of the class described, a plurality of accumulating devices, means for setting said devices to separately represent zero, the tens complement of an angle of 45° and the tens complement of multiples of 45°, means for additively entering a given angle of less than 360° in each of said accumulating devices, whereby the accumulating device containing the lowest positive difference will identify the octant in which said given angle lies, means for ascertaining which device contains the octant-identifying difference, computing mechanism, a table lookup device containing trigonometric functions of angles from 0° to 45°, means controlled by said ascertaining means when said octant identifying difference lies in any of said accumulating devices identifying the 1st, 3rd, 5th or 7th octant for selecting from the lookup device a function represented by the difference in said accumulating device, further means controlled by said ascertaining means, when said octant identifying difference lies in any of said accumulating devices identifying the 2nd, 4th, 6th or 8th octant for selecting from the lookup device a function representing the 90° complement of the difference in the accumulating device related to the next lower octant, and means for transmitting the selected function to the computing mechanism.

2,651,458
AUTOMATIC SEQUENCE-CONTROLLED COMPUTER
Harold F. Bennett, Earle A. Young, and Eben Haag, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application January 24, 1951, Serial No. 207,561
15 Claims. (Cl. 235—61)



5. An electrical control system adapted to form an automatic sequence digital computer when combined with a key set mechanical calculator of the type having a main keyboard, a multiplier keyboard, a product register, control keys for selectively initiating the operations of addition, subtraction, multiplication, division and clearing, and wheels in the product register which by their angular positions display the results of each of said operations except division, and also of the type which is adapted to divide a number in the product register by a number in the main keyboard by a process of successive subtractions of the divisor in each significant decimal order ending with an overdraft, said control system comprising: (1) means for detecting the occurrence of a subtraction and for generating a pulse over a first circuit during each subtraction, (2) means for detecting the occurrence of an overdraft during the division process and for generating a pulse over a second circuit upon the occurrence of said overdraft, (3) a chain of relays responsive to said first circuit for counting said subtractions until an overdraft occurs, (4) means responsive to said second circuit for emitting a pulse corresponding to the count of said subtractions, and (5) means for resetting the chain of relays subsequent to the energizing of the number circuit for counting the subtractions in the next decimal order.

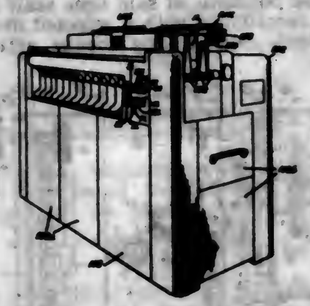
2,651,459
VELOCITY AND DIRECTION COMPUTER
James M. Brady, West Long Branch, N. J., and Athelstan F. Spilhaus, St. Paul, Minn., assignors to the United States of America as represented by the Secretary of the Army
Application January 31, 1951, Serial No. 208,782
6 Claims. (Cl. 235—61)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A velocity and direction computer comprising a triangulating mechanism having the form of a right triangle, said triangle having means associated therewith for translating information obtained from following the path of a target, said means acting to adjust the size of the triangle elements to represent changing values of altitude and elevation angle, such adjustment acting automatically to solve the triangle for horizontal range which is indicated upon the second side thereof, carrier means responding to the rate of change of horizontal range along the said second side of the triangle, a castor on said carrier, a flat surface azimuth member, means to move said member tangentially to the travel of said carrier and in response to changes in azimuth of the position of the target, said castor having its wheel rolling upon said azimuth member, a selsyn motor having its rotor and stator rotatable about the axis of said castor pivot, means acting to rotate one element of the selsyn in response to azimuth information received from the target and the other element thereof being connected to and rotating with the swinging movement of the castor, a receiver selsyn connected to the transmitting selsyn whereby the azimuth of the castor position is indicated, such position being derived from the observed azimuth information as modified by the rate of change of horizontal range.

2,651,460
ACCUMULATOR ENTRY CONTROL MEANS FOR RECORD CONTROLLED MACHINES
Lawrence A. Wilson, Garden City, and Benjamin M. Durfee, Binghamton, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Original application January 31, 1949, Serial No. 73,845. Divided and this application December 29, 1950, Serial No. 204,661
14 Claims. (Cl. 235—61.6)

11. In a machine of the class described, means to sense records having representations of the digital values of a number system, said sensing means emitting digital value representing impulses during a series of cycle points in a fixed period of time, an accumulator, value entering means for the accumulator including means for emitting trains of digital entry impulses corresponding in value to said value representing impulse and means for initiating said trains at digi-



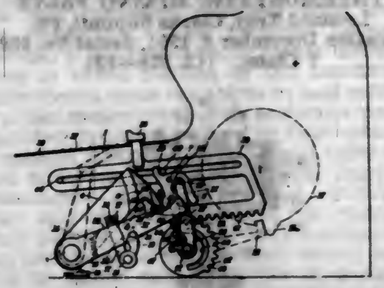
tal cycle point intervals spaced differently from the first intervals and spread over a period of time different from said first period, and means activated by said first named digital value representing impulses for emitting value representing impulses to said initiating means according to the value represented and according to the intervals of the second cycle points.

2,651,461
RECORD SENSING AND DATA STORAGE DEVICE
Hans P. Luhn, Armonk, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 31, 1951, Serial No. 264,330
15 Claims. (Cl. 235—61.11)



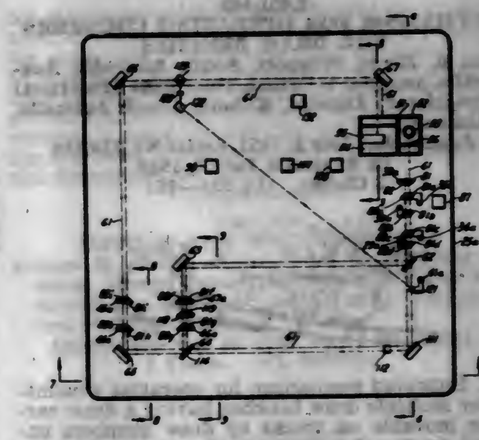
11. A device of the class described comprising, in combination, a sense wire having one hooked end, said wire being capable of flexure at said hooked end and including an integral crimped portion thereunder having a surface inclined from the longitudinal axis of said wire, stationary means insulatably supporting said wire movable in a direction of its length and free for flexure at said one end, a ball adapted for movement between a normal and a sense position relative to said support means and including upper and lower latch ledges secured thereto, said lower latch ledge extending outwardly beyond said upper latch ledge and being formed of an electrically conductive material; means biasing said wire in a direction of its length and normally maintaining said hooked end latched on either said upper or lower ledge of said ball, means for shifting said ball from said normal to said sense position to engage said wire with a related area of a stationary record adjacent thereto, wherein said wire will extend partly through said record if said area is perforated, or wherein said wire will be intercepted by said record if said area is not perforated; means to restore said ball from the sense to the normal position, thus removing said wire from said record; a cam device secured to said support means and adapted to engage said inclined surface of the wire when it senses a perforation to flex said hooked end thereof into a position to be engaged by said lower latch surface as the ball restores, and means to complete an electrical circuit through said wire when latched on said lower ledge, said lower ledge serving as a circuit common.

2,651,462
ITEM, TOTAL, AND REPEATED REGISTRATION CONTROL MECHANISM
Robert Gourdon, Paris, France, assignor to Societe Anonyme dite Centre d'Etudes M. B. A. (Mecanique, Balistique, Armement), Paris, France
Application December 9, 1947, Serial No. 790,596
In France December 12, 1946
9 Claims. (Cl. 235—63)



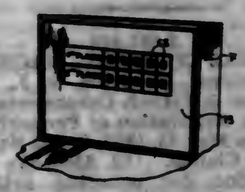
5. In an accounting machine, item registering means, total registering means, a registration key, value indexing keys having normal inoperative positions and settable in operative positions, means operatively connecting said registration key to said total registering means including a member biased to a normal position in which it transmits motion between said registration key and said total registration means and movable to a second position where it is ineffective to transmit such motion, means operatively connected to said value indexing keys and effective upon setting of any of said indexing keys in its operative position to move said member to its second position, means effective upon setting of any of said indexing keys and subsequent operation of said registration key to operate said item registering means and to lock said registration key in its operated position until operation of the item registering means is completed, and means effective after an operation of said item registering means to restore said indexing keys and said member to their normal positions and to release said registration key so that upon a succeeding operation of said registration key without intervening setting of said indexing keys, said total registering means will be operated, an item repeater key having a normal position and movable therefrom to an active position, a repeater key reset mechanism for moving the repeater key from its active position back to its normal position, and means operated by the repeater key upon movement thereof to its active position to render said restoring and releasing means ineffective and to operatively connect said reset mechanism to the item registering mechanism for operation thereby, so that the registration key remains in its operated position until the registering of the indexed item is repeated, whereupon the repeater key is reset to its normal position.

2,651,463
OPTICAL OPERATION CONTROL DEVICE
Philip H. Allen, Orinda, Calif., and Benjamin J. Chromy, Washington, D. C.
Application January 11, 1946, Serial No. 640,462
12 Claims. (Cl. 235—63)



1. In a calculating machine having an accumulator and means for entering values therein, means for performing a calculating operation, a plurality of control elements for said operation performing means, means for establishing a single light ray, means controlled by said ray for initiating operation of said operation performing means, an optical system for directing said ray past each of said elements and to said operation initiating means, and means under control of each of said elements for rendering said ray effective with respect to operation initiating means.

2,651,464
SCORE REGISTERING DEVICE
Harry E. Williams, Chicago, Ill.
Application February 3, 1951, Serial No. 209,246
4 Claims. (Cl. 235—92)



3. A device of the class described comprising a motor, a shaft rotated by the motor, a plurality of collars fixed to the shaft for rotation therewith and in spaced longitudinal relation with respect to each other, wheels each having numeral-bearing drums arranged on the shaft between the collars, springs embracing the shaft and arranged between the collar and the wheels providing frictional driving connection between the wheels and the shaft, means for releasably

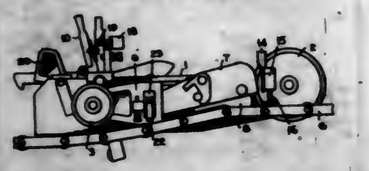
holding the wheels individually against rotation with the shaft, said last named means including a plurality of notches on one side wall of said wheels and individual holding shoulders, said notches being adapted to be engaged by said holding shoulders, means for releasing individually said holding means, electromagnetic means for simultaneously releasing all of said holding means to permit simultaneous rotation of the wheels with the shaft, said last named means including a trip arm carried on a second shaft below and adjacent said wheels and adapted to engage and release said holding means when said electromagnetic means is energized.

2,651,465

MECHANISM FOR OPERATING COUNTERS FOR DRAW BENCHES

John B. Higgs, Prospect, South Australia, Australia, assignor to British Tube Mills (Australia) Proprietary Limited, Kilburn, South Australia, Australia

Application July 2, 1951, Serial No. 234,816
In Australia July 6, 1950
3 Claims. (Cl. 235—92)



1. Improved mechanism for operating a counter for multiple draw benches having a draw carriage movable on tracks by draw members engaged by movable hook members which lift and stress the draw members during the draw due to the mounting of the hook members, and in which grips on said draw carriage engaged on the tag ends of work pieces projecting through die plates and draw said work pieces through the dies as the carriage moves forward, comprising independent switch means associated with each of said grips and positioned to be actuated by movement of said grip when it engages or releases the work pieces, and switch means supported from the carriage in the path of a draw member when lifted and stressed by the resistance of the draw when the carriage is drawn forward, the first said switch means for each said grip being in series with the second said switch means so that the counter mechanism is energised only while said switch means associated with the grip and said switch means associated with the draw member are similarly set.

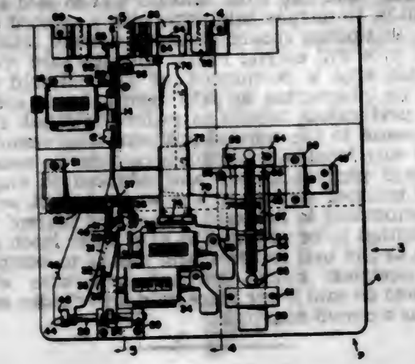
2,651,466

ARTICLE COUNTING MACHINE

Alten E. Whitecar, Westville, N. J., assignor to Smith, Kline & French Laboratories, Philadelphia, Pa., a corporation of Pennsylvania

Application May 15, 1952, Serial No. 287,354
5 Claims. (Cl. 235—98)

4. A machine for counting articles being stacked, which comprises a lever pivotally mounted to have one end thereof in the path of the articles being stacked and adapted to be pivoted by the passage of each article, a pair of spring return reset counters, means to selectively engage said pivoted lever with said counters, a slidable member, a finger pivotally secured to said slidable member, a spring adapted to move the slidable member to a position so as to interpose said finger between the articles being stacked, stop means to selectively hold said slidable member against the spring to maintain the finger in an operative position, said stop means being operatively connected to said first



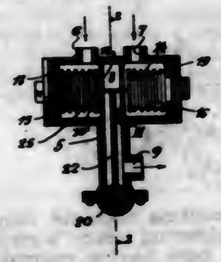
mentioned means so as to effect the release of the slidable member on actuation of said first mentioned means and means to effect the engagement of said stop means independent of the movement of said first mentioned means.

2,651,467

THERMOSTATIC MIXING VALVE

Leonard Troy, Clarks Summit, Pa.

Application December 8, 1951, Serial No. 260,598
1 Claim. (Cl. 236—12)



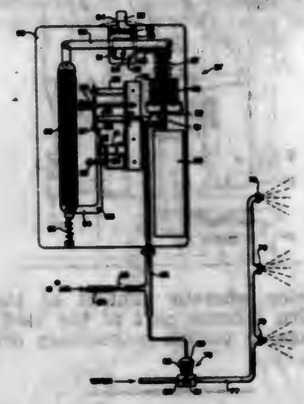
A thermostatically operated valve comprising a valve casing of vertically disposed T-formation forming a mixing chamber within the vertical stem of said casing and opposed valve chambers in the horizontal head of the casing, one valve chamber in each end of said horizontal head, an inlet for admitting a cold component to one of said valve chambers, a second inlet for admitting a warm component to the other valve chamber, an annular valve port between each of said valve chambers and said mixing chamber, ring valves for opening and closing the valve ports, hollow bellows supporting said valves and normally urging them to close the said valve ports, respectively, said valve ports, valves and bellows being in axially alined positions within the said casing head, an outlet near the bottom of said mixing chamber, a thermostat rockable upon a shaft below said outlet and adapted to engage either one of the said ring valves to move it away from its respective valve port to regulate the volumes of warm and cold components passing through said valves, means for supporting the said shaft and detachable screw plugs in the ends of said horizontal casing head for supporting the said hollow bellows and the said valves, said inlets being at an angle to the horizontal axes of the said valves.

2,651,468

SELF-CYCLING PNEUMATIC CONTROL APPARATUS

Frederick D. Joesting, Oak Park, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application November 3, 1949, Serial No. 125,261
16 Claims. (Cl. 236—44)



6. In a pnuematic controlling system, pneumatic motor means arranged to actuate a condition changing device, a controller for said motor means, said controller including force exerting means responsive to the condition being controlled and a pneumatic valve means operable to an open or closed position by said condition responsive means upon variations in said condition, snap action means for causing said valve means to be operated to either a closed or fully open position, conduit means connecting said valve means to said motor means, said controller requiring a predetermined difference in said condition to operate said valve means from one position to another position, and second force exerting motor means connected to said conduit means and arranged to adjust said controller in a direction to cause said valve means to be driven to its opposite position by variations in its force due to variations in pressure in said conduit, said second motor means being capable of adjusting said controller by an amount exceeding the value of said predetermined difference.

10. A humidity controller comprising a pneumatic valve means, a force exerting humidity responsive element arranged to operate said valve means, snap acting mechanism arranged to cause operation of said valve means to either of two positions, said mechanism tending to require a predetermined differential of humidity for operation of said valve means from one of its positions to its other position, and adjustable force exerting biasing means constructed and arranged for adjusting said controller by a variable amount which may exceed said differential, said biasing means including a pneumatic motor and conduit means including a flow restrictor connected to said valve means, said flow restrictor controlling the rate of adjustment of said biasing means.

2,651,469

RAIL-FASTENING CLIP

Moses L. Myer, University City, Mo.

Application November 15, 1949, Serial No. 127,299
12 Claims. (Cl. 238—349)

6. A rail-fastening clip comprising a one-piece, single ply resilient clip structure of uniform cross section, having an arched, deformable upper rail-engaging element terminating in a substantially flat, rail-base engaging face and a lower element, depending from the arched element, and intended for anchoring engagement with a rail-supporting tie plate, the outer surface of the lower element being provided with serrations for engagement with the outer wall of a substantially square tie plate hole, the bottom end of the lower element being substantially aligned with and does



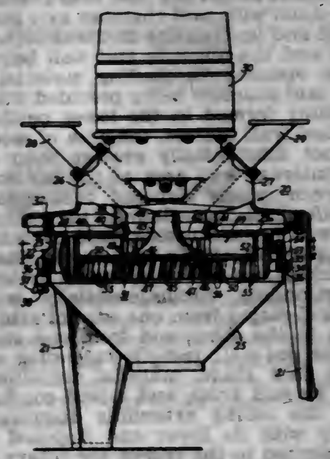
not extend below the undersurface of the tie plate when the clip is in its final, rail-holding position, the upper clip element being so constructed that its rail-base engaging face comes into an increasingly forceful contact with the rail base when its arched end becomes deformed as the lower clip element is being driven into place, the body of the clip being of substantially a square cross section throughout its length.

2,651,470

METHOD FOR MILLING WHEAT

Robert B. Dodds, Woodbridge, and Arthur N. Hibbs, Mount Carmel, Conn., assignors to The Safety Car Heating and Lighting Company, Inc., New Haven, Conn.

Application May 26, 1949, Serial No. 95,444
1 Claim. (Cl. 241—5)



The herein disclosed method of milling moisture conditioned wheat which includes the steps of flowing the wheat on to a rotating rotor disc so as to impart velocity to the wheat grains radially of the axis of rotation of said rotor, centrifugally impelling the grains so that each grain takes a path at an angle of the order of 30° to the tangent and in a horizontal plane and at a velocity of the order of at least 12,000 feet per minute, individually impacting each particle against a hard surface inclined in both the vertical and horizontal, deflecting the particles and their fragments downwardly and outwardly, the deflection downwardly being effected by the surface having an angle of inclination of the order of 15° to 25° to said horizontal plane, the deflection outwardly being effected by having the surface facing the path of the grain at an angle of 30° to 45° to the radius of the disc through the center of the surface, whereby a grain hitting

said surface is broken and the fragments thereof are directed away from the impact surface and the rotor.

2,651,471

CENTRIFUGAL GRINDING MILL WITH ABRASIVE LINER AND ANGULARLY DISPOSED FEED CONDUIT

Heinrich Arnold Noll, Duesseldorf, Germany, assignor to H. H. and H. Manufacturing Co., Chicago, Ill., a corporation of Illinois

Application October 7, 1950, Serial No. 189,010
In Germany February 12, 1950
1 Claim. (Cl. 241—86)



In a material grinding machine, a horizontal casing having a cylindrical internal wall, end walls for said casing providing a chamber for the reception of material to be ground, a rotatable shaft projecting into said chamber on an axis co-axial with said chamber axis through one end wall and terminating in the chamber to form an end and the opposite end wall being formed with an opening for feeding material into the casing, said chamber being provided with an outlet opening formed in the lower portion of the cylindrical wall thereof, the area of said opening being not substantially greater than one-sixth of the internal wall area of the horizontal casing, screen means disposed over said opening and conforming in contour to the cylindrical internal wall of said casing, said cylindrical wall being provided with a removable liner having an internal surface of abrasive material, said liner extending circumferentially within the cylindrical casing from one edge of said screened opening to the other and from one end wall to the other end wall, radially extending arms carried by said shaft, material impelling blades carried by said arms, and a feed conduit at one end of the casing extending downwardly and inwardly with its lower end disposed centrally and presented to the end of the rotary shaft for feeding material to the chamber through said opening in the end wall, said feed conduit being angularly displaced with respect to a vertical plane passing through the axis of the shaft and about said shaft in the same direction of rotation thereof a sufficient distance to feed material to the abrasive surface of said liner in advance of the screen means.

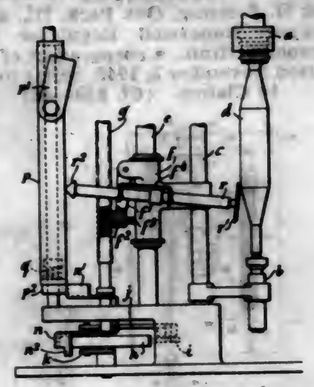
2,651,472

PIRN WINDER OR THE LIKE

Harold Lionel Muschamp, Bramhall, and John Robert Grady, Cheadle Hulme, England; said Grady assignor to said Muschamp

Application August 13, 1952, Serial No. 304,084
In Great Britain August 15, 1951
4 Claims. (Cl. 242—24)

1. Feed traverse mechanism for a pirn winder comprising a traverse feed screw, driving means for said feed screw including a resiliently loaded friction brake drive controlling device and a feeler located between said pirn and said con-



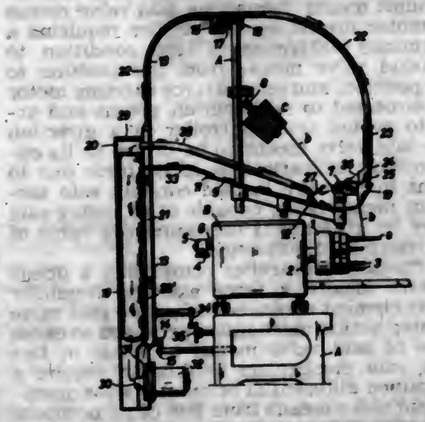
trolling device whereby contact of the feeler with the pirn relieves part of the load on the friction brake to permit momentary driving of the feed screw.

2,651,473

PNEUMATIC WASTE COLLECTOR ON THREAD-WORKING TEXTILE MACHINES

Walter Siegenthaler, Erlenbach, Switzerland, assignor to Maschinenfabrik Schärer, Erlenbach, Switzerland

Application January 3, 1951, Serial No. 204,175
In Switzerland March 28, 1950
5 Claims. (Cl. 242—35.5)



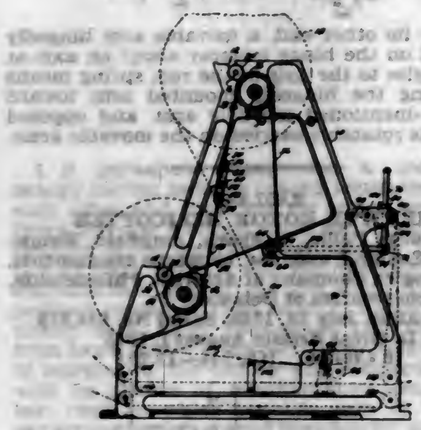
1. A winding machine comprising an elongated frame, a row of winding devices carried by said frame, means above said devices for supplying yarn thereto, a part positioned above said devices and below said means formed to present an upwardly facing surface for receiving lint and the like falling from the latter, a support, means mounting said support for movement along said row longitudinally thereof, a suction pipe and an air discharge pipe carried by said support having air inlet and air discharge ends, respectively, which ends are positioned above and adjacent said upwardly facing surface in opposed spaced relation transversely of said surface; suction and blower means carried by said support for drawing air through said air inlet end of said suction pipe, and for discharging air from said air discharge end of said air discharge pipe, for moving lint collecting on said upwardly facing surface toward said air inlet end of said suction pipe for removal of such lint from said part through said suction pipe.

2,651,474

ROLL STAND FOR FLYING SPLICES

James P. Van Dusen, Richmond, Va.

Application August 14, 1952, Serial No. 304,248
5 Claims. (Cl. 242—75)



1. A roll stand comprising: a pair of spaced frame members, each of said frame members having vertically spaced notches to receive the shaft of a supply roll, one of said members having a brake drum journaled adjacent each of said notches, each of said brake drums having means to engage the shaft of a supply roll to be rotated thereby, a brake shoe for engagement with each of said drums, an element mounted on said frame member intermediate said drums, means for connecting one end of each brake shoe to said element, and means for shifting the element alternately toward either of said brake shoes, whereby to disable the shoe toward which the element shifts, a bell crank mounted in said frame member, means connecting the opposite end of each of said brake shoes to one of the arms of said bell crank, a lever for oscillating said bell crank and a tensioning roll rotatably mounted in the free end of said lever.

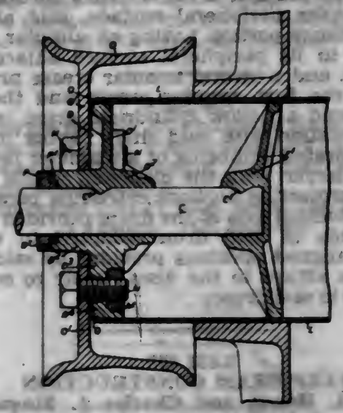
2,651,475

WARP BEAM OR THE LIKE

Stephen Stanworth, Burnley, England, assignor to Thomas Ashworth and Company Limited, Rosegrove, Burnley, England, a corporation of Great Britain

Application June 1, 1950, Serial No. 165,442
In Great Britain March 1, 1948
3 Claims. (Cl. 242—118)

1. A tubular roller as used in the textile industry on which fibres, filaments or fabrics are to be wound, comprising a metallic tube having a journal pin at each end on each of which two centralizing members are fixed at predetermined distance apart each of which forms a push fit in the tube, each of the inner and outer centralising members and the related journal pins providing interfitting boss and socket portions whereby the same are functionally integral, and the outer centralizing member of each of said journal pin and centralizing member-provided units being welded



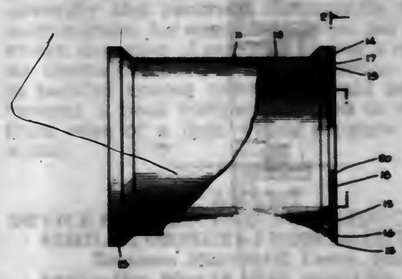
around its outer surface to the end of the tube whereby to secure said units in the latter.

2,651,476

PLASTIC SHROUDED SPOOL

Louis H. Morin, Bronx, N. Y., assignor to Coats & Clark Inc., a corporation of Delaware

Application July 12, 1951, Serial No. 236,859
7 Claims. (Cl. 242—118)



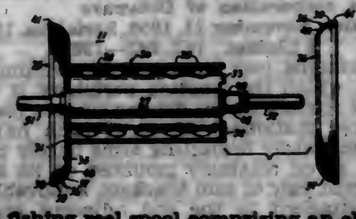
1. A spool of the class described, comprising a thin walled tubular core, a one-piece plastic shroud enveloping the outer surface and end edges of the core, said shroud having at the ends of the core outwardly projecting thick walled rims, said rims including inwardly extending annular projections covering the end edges of said core and said rims exteriorly of the projections having annular recesses.

2,651,477

FISHING REEL SPOOL

Henry Ikarus Mandolf, San Diego, Calif., assignor to Langley Corporation, San Diego, Calif., a corporation of California

Application September 26, 1949, Serial No. 117,837
5 Claims. (Cl. 242—123)



1. A fishing reel spool comprising an elongated shaft, a pair of discs formed of thin gage metal

carried upon said shaft in spaced relation to one another, said discs each comprising a base portion and an annular arcuate flange portion having a convex peripheral surface, said annular arcuate flange portion having an annular crease provided in its peripheral surface adjacent its outer rim and a second annular crease provided between the first annular crease and the base portion, and a hollow cylindrical drum in concentric relation with said shaft having its surface perforated and being of a diameter relatively much larger than the diameter of said shaft, integral projecting portions extending parallel to the longitudinal axis of the drum provided at opposite ends of said drum adapted to extend through aligned openings provided by said discs and to be affixed to the discs rigidly to connect said discs to said drum.

2,651,478

WARP BEAM CONSTRUCTION

Samuel A. Harris and Charles A. Sinquefield, Winston-Salem, N. C., assignors to Briggs-Shaffner Company, Winston-Salem, N. C., a corporation of North Carolina

Application October 3, 1950, Serial No. 188,202
4 Claims. (Cl. 242—124)



1. In a warp beam construction, a head, a barrel having a circumferential recess in the bore thereof spaced from the end of the barrel; a collar seated in said bore, means expansible into said recess to hold said collar against movement with respect to said bore toward said barrel end, the beam head comprising a disk having a hub portion extending into the bore of said barrel, and circumferentially spaced screws for securing said disk to said collar.

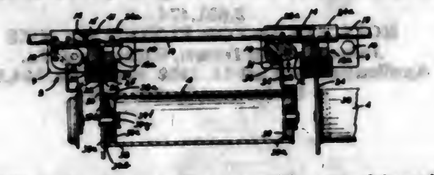
2,651,479

WINDING CORE SUPPORT

Ernest K. Bauer, Meadville, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

Application November 13, 1950, Serial No. 195,314
6 Claims. (Cl. 242—130)

1. A winding core support for a winding machine in which the winding periphery is driven by direct contact with a driving surface comprising spaced stationary brackets, each having a pair of outwardly projecting arms fixedly carried thereon, a rod rotatably mounted on its axis in an adjacent pair of said brackets, a movable arm rigidly attached to the rod adjacent one end thereof and extending outwardly between the arms of one of the brackets, friction means on one of the bracket arms having a friction surface lying in a plane perpendicular to the axis of the rod for engaging an opposed contiguous surface of the movable arm and for restraining its movement, a hinge member fixed on the rod



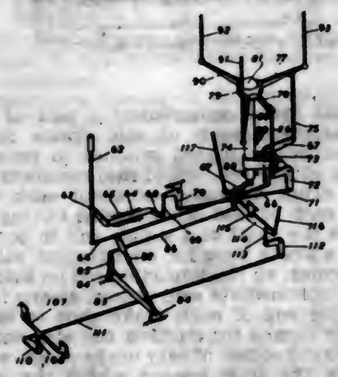
adjacent its other end, a movable arm hingedly mounted on the hinge member about an axis at right angles to the axis of the rod, spring means for urging the hingedly mounted arm toward the first-mentioned movable arm, and opposed trunnions rotatably carried on the movable arms.

2,651,480

MULTIPLE ROTOR HELICOPTER

Cyril George Pullin, Tadburn, Ampfield, Hampshire, England, assignor, by mesne assignments, to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware

Application July 29, 1946, Serial No. 686,873
In Great Britain August 1, 1945
10 Claims. (Cl. 244—17.23)



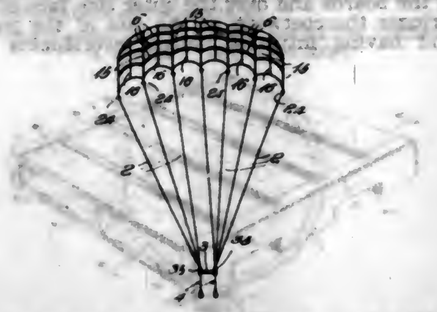
1. A rotary-wing aircraft having three sustaining motors with separate axes defining the vertices of a triangle in plan, the center of gravity of the aircraft being toward the center of said triangle, the axes of two of said rotors being in lateral side-by-side relation, one on each side of the longitudinal vertical plane of the craft, and the axis of the third of said rotors being substantially in said plane, each of said rotors having collective pitch varying means; and a control system including a control member mounted with freedom for movement in two senses, and linkage interconnecting said member and said pitch varying means responsive to movement of the member in the first of said senses to operate the pitch varying means of said two side-by-side rotors in opposite directions for controlling roll, and responsive to movement of said member in the second of said senses to operate the pitch varying means of said two rotors in the same direction and simultaneously operate the pitch varying means of the third rotor in the opposite direction for pitching control of the aircraft, wherein at least one of said rotors has a mounting providing for tilting of the rotor whereby to effect trimming of the aircraft without utilizing the pitch varying means.

2,651,481

PARACHUTE

Augustus John Steinthal, New York, N. Y.

Application May 22, 1951, Serial No. 227,699
6 Claims. (Cl. 244—145)



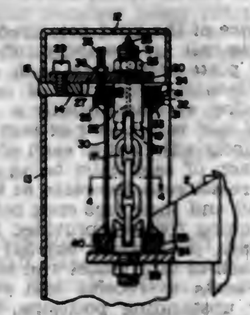
1. A parachute comprising a rectangular canopy having sections spaced transversely from each other and providing air outlets spaced between the said sections, strips secured across said sections, strips secured longitudinally upon certain of said sections, the last mentioned strips and alternate ones of the first strips having end portions extending from edges of the canopy and folded back upon themselves and secured to form loops spaced from each other longitudinally of margins of the canopy and connected therewith by shanks of multiple thickness, a cross bar, rings to which opposite ends of the cross bar are connected, shroud lines having upper ends individually connected with companion ones of said loops, said shroud lines being arranged in groups and having lower ends of the shroud lines of the groups being connected with the rings at opposite ends of the cross bar, and risers connected with and extending downwardly from said rings.

2,651,482

SUSPENSION LINK FOR CENTRIFUGAL EXTRACTOR CASINGS

Frank O'Conor, Moline, Ill., assignor to American Machine and Metals, Inc., New York, N. Y., a corporation of Delaware

Application October 20, 1950, Serial No. 191,103
3 Claims. (Cl. 248—18)



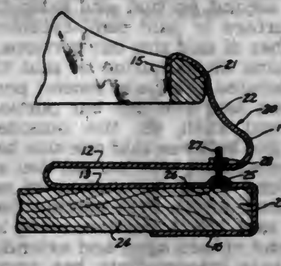
2. In a centrifugal extractor, in combination, an extractor housing having three laterally projecting horizontal lugs, three pedestals of U-shaped section the open side facing said extractor and one of said lugs projecting into said open side, a horizontal plate at the top of each pedestal, a chain extending from each of said lugs to one of said plates to allow the centrifugal housing to sway horizontally, a tubular strut surrounding each chain, resilient washers at each end of said strut, a metal washer above the upper resilient washer, and three screws passing through said plate for urging said washers against the strut and the lug to restrain the freedom to sway of said extractor housing.

2,651,483

TYPEWRITER RETAINING BRACKET

William H. Ritchie, Philadelphia, Pa., and James T. Humes, Harrisonburg, Va.; said Humes assignor to said Ritchie

Application July 27, 1950, Serial No. 176,232
2 Claims. (Cl. 248—25)



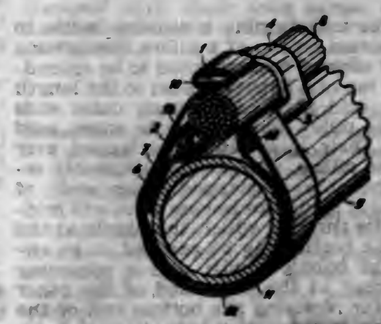
1. A bracket for removably attaching a typewriter to the top of a desk, said bracket being formed from a single strip of resilient material, said strip being bent intermediate the length thereof to form a U-shaped member providing spaced parallel legs, one of said legs being bent upwardly and recurved downwardly to form a hook member for engaging a front bar of a typewriter, the other of said legs having a right angular depending portion and a portion extending in parallel spaced relation to said leg member forming a hook member adapted to receive the front edge of a desk which supports the typewriter.

2,651,484

DEVICE FOR SUSPENDING CONDUCTORS OR SIMILAR OBJECTS FROM LOAD ROPES

Romano Marchetti, Lecce, Italy

Application May 12, 1950, Serial No. 161,550
In France June 30, 1949
1 Claim. (Cl. 248—61)



Apparatus for suspending an elongated cable or the like from an elongated support which is substantially parallel to and spaced from the cable, comprising, in combination, a substantially semi-cylindrical elongated shell adapted to be located over the elongated support, said shell having an inner surface and an outer surface and being formed with a pair of slots extending along the length of said shell and being spaced inwardly from the ends thereof to form between the ends of said shells a pair of outer side bar

portions and an intermediate bar portion adapted to be located on the elongated support; and an elongated flexible metal band having a width smaller than the length of said slots and being adapted to support the cable in spaced relation and substantially parallel to the elongated support, said band having a first portion at an end thereof adapted to be located next to the cable and extending along the inner surface of said semi-cylindrical shell about one of said side bar portions, a second portion forming a continuation of said first portion located over the latter and being adapted to extend about the cable next to the same, a third portion forming an extension of said second portion and extending along the inner surface of said semi-cylindrical shell about the other of said side bar portions, a fourth portion forming an extension of said third portion, being located over said second portion and extending past said one side bar portion of said semi-cylindrical shell on the outside thereof through the slot between said one side bar portion and said intermediate side bar portion and about the latter along the outer surface of said semi-cylindrical shell, and a fifth portion forming an extension of said fourth portion, being located at an opposite end of said band and extending about an edge of said intermediate bar portion to a point between the latter and said fourth portion of said band.

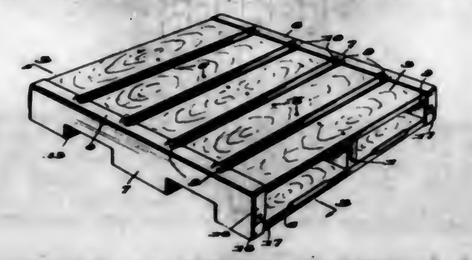
2,651,485
BABY FEEDING BOTTLE HOLDER
Bernard R. Schutz, New York, N. Y.
Application June 20, 1950, Serial No. 169,000
2 Claims. (Cl. 248—102)



1. Means for maintaining a nursing bottle in a nursing position on top of a pillow, comprising a pair of end aligned flaps adapted to be extended across the top of a bottle parallel to the length of the bottle, said flaps having their outer ends secured to the pillow at its opposite edges, said flaps having their inner ends overlapped over the top of the pillow, and means adjustably securing together the overlapped inner ends of said flaps, one of said flaps having a cut-out midway of its sides through which the nipple at the top end of the bottle may be exposed to be engaged into the baby's mouth, and a pocketing structure formed at the outer end of the other of said flaps for receiving the bottom end of the bottle retaining it in position beneath said flaps.

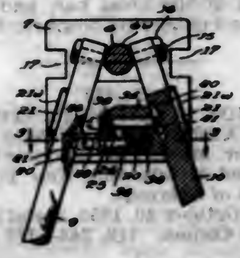
2,651,486
PALLET
Sherrill W. Woodward, Brattleboro, Vt., assignor to Woodward Lumber Company, Inc., Brattleboro, Vt., a corporation of Vermont
Application November 19, 1948, Serial No. 61,065
1 Claim. (Cl. 248—120)

In a pallet, the combination with wooden stringers having spaced boards on opposite sides thereof and headed fastenings extending through the boards into the stringers for securing the boards thereto, of a covering cap at each end of the pallet, said covering cap being formed of sheet metal extending over the ends of the boards and over the outer side face of the stringer therebetween at the end of the pallet, and having inturned flanges overlapping the



outer faces of the boards and overlapping the fastenings of the boards, and means for securing said flanges to the pallet, said means including fastenings extending through at least one of the flanges intermediate spaced boards and deflecting said flange into the spaces between said boards with the exposed heads of the last-mentioned fastenings below the top face of the last-mentioned cap flange.

2,651,487
FOLDABLE SIGN CARRIER
Gerald H. Leeck, Blythe, and Roger E. Wellmer, Inglewood, Calif.
Application August 16, 1952, Serial No. 304,754
5 Claims. (Cl. 248—166)



1. In a device of the kind described, a horizontally extending rail, an upwardly and downwardly extending plate secured to each end of said rail, the horizontal dimension of each of said plates extending at substantially a right angle to the axis of said rail, a pair of legs fastened to said rail inwardly adjacent to each of said plates, the legs of each of said pairs being inswingable to a latched relation to the plate at the opposite end of the rail and their free ends being engageable with latching recesses provided for them in the latter plate, projections carried by the inner face of each of said plates and affording between them seats to receive and stabilize the legs in their upstanding positions, the legs of each pair having locking recesses in their inner sides, a spring loaded locking bolt for each of the legs of each of said pairs, said locking bolts being slidably carried by said plates and each of said bolts having a beveled nose over which the recessed part of the leg with which it cooperates glides when the leg is swung into its seat, and manually operable means carried by each of said plates to retract simultaneously the bolts of the adjacent pair of legs so as to unlock from said seats the pair of legs which occupy them.

2,651,488
ROTATABLY ADJUSTABLE MOUNT FOR MOTORCYCLE HEADLIGHTS AND THE LIKE
Arthur P. Sauer, Fairfield, Conn., assignor to The Kilborn-Sauer Company, Fairfield, Conn., a corporation of Connecticut
Application April 27, 1950, Serial No. 158,543
3 Claims. (Cl. 248—289)



1. A rotatably adjustable mount, comprising a post member having a transversely enlarged base portion having an external cylindrical surface concentric to its axis and extending a substantial distance upwardly from its lower end, an annular shoulder extending inwardly from the upper end of said cylindrical surface, there being an axially disposed cylindrical pocket extending upwardly within said base portion from the lower end of said post member and having a closed upper end, a bolt member coaxially beneath said pocket having a laterally projecting head provided with a flat annular under surface and a non-circular portion adjacent to and beneath said head, a helical spring within said pocket engaged with the upper side of said bolt head and compressed between said bolt head and said upper end of said pocket, and a cup-shaped cylindrical collar member having a flat base engaged with the flat under side of said bolt head and provided with a central non-circular aperture non-rotatably engaged by said non-circular portion of said bolt member, the cylindrical wall of said collar member being rotatably engaged with said cylindrical surface of said base portion of said post member to maintain said collar member in coaxial relation with said post member, and an inwardly extending annular retaining portion at the upper end of said cylindrical wall of said collar member engaged over said annular shoulder to maintain said spring in compression.

2,651,489
CURTAIN ROD BRACKET ELEVATOR
Ralph E. Bell, Sturgis, Mich., assignor to Kirsch Company, Sturgis, Mich., a corporation of Michigan
Application May 10, 1949, Serial No. 92,315
5 Claims. (Cl. 248—265)

1. An adjustable curtain rod supporting bracket comprising a wall engaging member having an attaching base and a wall spaced therefrom and having a slot therein, an adjustable member slidable in said slot comprising an inner plate wider than said slot and disposed between said attaching base and wall and having a struck-up portion narrower than said slot extending from adjacent one end of said plate toward the other end thereof to a rod support engaging portion and forming a slanting wedging surface, a rod support having a base wider than said slot secured to said rod support engaging portion, a spring clip slidable in said slot and having a body wider than said slot disposed on said wall on the face opposite said attaching base adjacent said slot and having a pair of spring tongues narrower than said slot extending therefrom and through said slot, each terminating in a wedging member wider than said slot, one of which is adapted to engage the slanting wedging surface of said inner plate to fix said adjustable member on said wall engaging member.

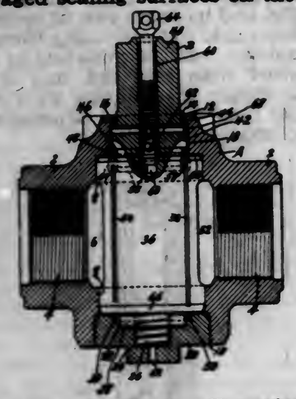


5. In a curtain rod supporting bracket a spring clip comprising a body formed as a semi-cylinder with the convex side forming a sliding support engaging surface, a pair of spring tongues narrower than said body extending from the sides of said body beyond the convex side and normal to the axis of said semi-cylindrical body, each terminating in a wider semi-cylindrical member with the convexity thereof extending in the same direction as said convex side of the body and with its axis parallel to the axis of said body, said clip being adapted to be inserted slidably in a slot in a support having a slotted wall with the body and semi-cylindrical members of the tongues disposed with their axes across said slot and on opposite faces of the wall with said tongues in the slot.

2,651,490
BALANCED PLUG VALVE
Robert Clade, Detroit, Mich., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application October 23, 1945, Serial No. 623,912
7 Claims. (Cl. 251—93)

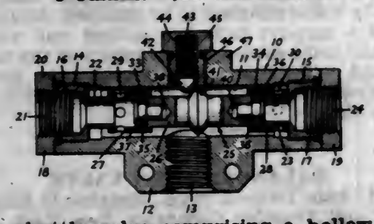
5. A lubricated valve of the balanced type comprising a valve body having a passageway therethrough for the flow of matter and a bore extending transversely of said passageway, a valve plug mounted in said bore for slight axial movement and rotatable to control the flow of matter in the passageway, said valve having bearing portions and substantially similar end surface areas exposed to atmospheric pressure, sealing members between the body bore wall and the ends of the plug beyond the bearing portions, said plug being shiftable axially while sealed with the body by said members, a stem connected to one end of the plug and extending out of the body for reception of operating means, a groove system for the

passage of lubricant to lubricate and seal the adjacent surfaces of the bearing portions of said plug and said bore, a source of lubricant under pressure in said stem connected to said groove system and open to the body bore adjacent the stem and beyond the adjacent sealing member, check means in said stem preventing return flow of lubricant from said groove system to said source, and normally engaged sealing surfaces on the body and



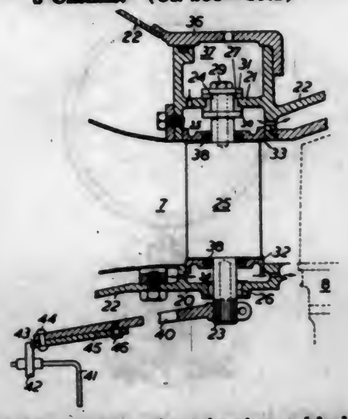
the end of the plug having the extension, said sealing surfaces lying in a plane perpendicular to the longitudinal axis of the plug, said valve plug being shifted axially in response to excess lubricant pressure conditions in the valve to separate the sealing surfaces and provide a vent through which lubricant flows outwardly of the body directly from the source until the pressure is again normal.

2,651,491
SHUTTLE VALVE
Benjamin N. Ashton, John P. Frain, and Emerson S. Rawding, Kingston, N. Y., assignors to Electrol Incorporated, Kingston, N. Y., a corporation of Delaware
Application June 12, 1951, Serial No. 231,176
6 Claims. (Cl. 251—118)



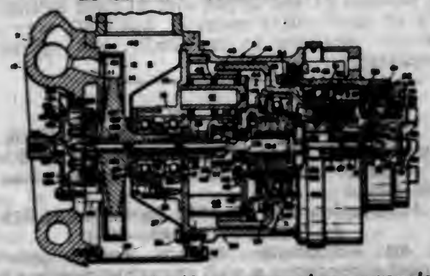
1. A shuttle valve comprising a hollow valve casing having an internal wall forming an elongated valve chamber therein, tubular sleeves in said casing extending into opposite ends of said chamber and forming ports at opposite ends of said chamber, said sleeves being spaced radially from said internal wall, said casing also having another port at about its mid-portion communicating with said chamber, a valve member in said chamber having cup-shaped sleeve portions at its opposite ends, said sleeves engaging slidably inside said cup-shaped portions at all times and guiding said valve member for endwise movement in said casing, each of said cup-shaped portions and the sleeve slidably engaged within it forming a slide valve having a passage therethrough to be covered and uncovered by relative movement of said sleeves and cup-shaped portions upon endwise movement of said valve member in said casing.

2,651,492
TURBINE
Geoffrey Bertram Robert Feilden, Lincoln, England, assignor to Power Jets (Research and Development) Limited, London, England, a British company
Application March 14, 1947, Serial No. 734,594
In Great Britain March 20, 1946
5 Claims. (Cl. 253—39.1)



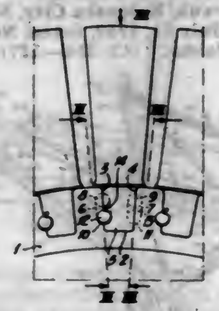
1. In a gas turbine plant having a bladed turbine rotor for receiving hot working fluid to drive it, the combination of a turbine working fluid inlet casing defining the walls of an admission nozzle through which the hot working fluid passes to said bladed turbine rotor, a plurality of adjustable guide blades disposed in spaced relationship in said inlet casing between said walls, each having pivot support means about which it turns for adjustment, a plurality of bearing means for said pivot support means formed in said inlet nozzle casing, and shrouding members having holes therein to accommodate said blade pivot supports arranged in said inlet nozzle casing co-extensive with said walls and spaced away therefrom adjacent said blades to form an insulating gap between said blades and said casing walls to protect said walls, said blade pivot support means and said bearing means from said hot working fluid.

2,651,493
GAS TURBINE ENGINE STARTER
Emil A. Volk, Jr., Hasbrouck Heights, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application April 13, 1951, Serial No. 220,841
10 Claims. (Cl. 253—59)



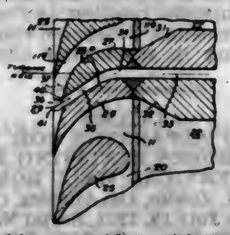
2. An engine starting apparatus comprising the combination of a gas turbine, an inlet and an outlet through which motive gas is respectively admitted to and discharged from the turbine, jaw engaging and rotating mechanism, reduction gearing interconnecting said turbine to said jaw mechanism, a cut-off plate interposed between said inlet and said turbine and having opening normally in line with said inlet, means responsive to the speed of rotation of said jaw mechanism to rotate said cut-off plate to move said openings out of line with said inlet upon said speed exceeding a predetermined rate thereby to by-pass said gas from said turbine.

2,651,494
TURBINE DISK
Thure Albert Persson, Trollhattan, Sweden, assignor to Svenska Flygmotor Aktiebolaget, Trollhattan, Sweden, a Swedish joint-stock company
Application December 8, 1950, Serial No. 199,761
In Sweden November 24, 1949
4 Claims. (Cl. 253—77)



1. In a turbine, a rotor disc having a rim with a set of grooves in the periphery thereof, each groove extending in a transverse direction from one side of the rim to the other, a corresponding set of blades having roots engaging in said grooves, one side surface of each groove and the side surface of the respective blade root in contact therewith having a hole extending from one side surface of the rim of the rotor disc to a point at a distance from the opposite side surface of the rim, the other side surface of the groove and the blade root surface in contact therewith having a hole extending from said last-mentioned side surface of the rim to a point at a distance from said first-mentioned side surface of the rim, the open end of each such hole being situated at a smaller radius of the rotor disc than the bottom end of the hole, and a pin inserted in each such hole and sealed against dropping through the open end thereof.

2,651,495
TURBINE INLET STRUCTURE
Francis P. Corbett, Drexel Hill, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 2, 1948, Serial No. 57,940
3 Claims. (Cl. 253—78)



1. In a turbine provided with impulse blading at its high-pressure end, a circumferential arrangement of nozzle boxes each having wall structure bounding a steam chamber, bridging structures secured to the respective wall structure of said nozzle boxes, nozzle blocks carried by said bridging structures for the respective nozzle boxes and including vanes providing nozzle passages for supplying steam from the nozzle boxes to the blading, each such nozzle passage including a throat where critical pressure drop occurs, the vane separating the nozzle passage at one end of one nozzle block from the nozzle passage at the adjacent end of the adjoining nozzle block including vane-forming components carried by the respective blocks and separated by a clearance space, said bridging structures for supporting the respective nozzle blocks being connected to the wall structures of the respective nozzle boxes so that discharge of steam from each nozzle box is restricted to the nozzle passages of the associated block, said bridging structures including adjoining end wall elements welded to the forward edges of said vane components and separated by a clearance space registering with the clearance space between the vane components, said vane components being formed so that the clearance space therebetween extends generally in the same direction as the nozzle passages with one end thereof opening through the composite vane convex face downstream of the throat of the nozzle passage partially bound by such convex face.

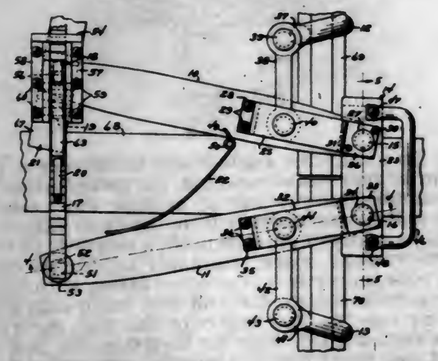
2,651,496
VARIABLE AREA NOZZLE FOR HIGH-TEMPERATURE TURBINES
Bruce O. Buckland, Schenectady, and Glenn B. Warren, Niskayuna, N. Y., assignors to General Electric Company, a corporation of New York
Application October 10, 1951, Serial No. 250,738
5 Claims. (Cl. 253—78)



1. In a variable guide-blade arrangement for an axial flow turbo-machine, the combination of an annular outer casing, an annular inner casing assembly spaced radially from the outer casing to define a motive fluid flow path, a plurality of circumferentially spaced rotatably adjustable control rods supported in the outer casing with their axes substantially radial and their inner ends projecting into the fluid flow path and each carrying an airfoil-shaped blade for directing the flow of fluid, the inner casing assembly comprising first and second annular inner casing members, the radially inner wall of the fluid flow path being defined by a first circumferential row of arcuate segments loosely supported from the first inner casing member, the segment support means comprising a radially projecting flange portion extending inwardly from each segment and having an axially extending portion engaging an annular dovetail groove in an adjacent end surface of

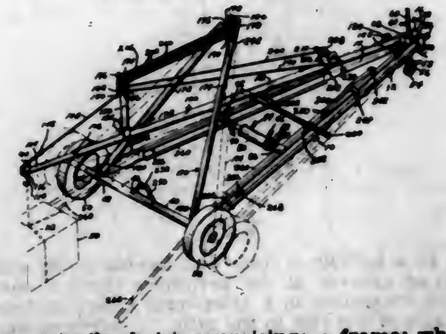
the first inner casing member, the second annular inner casing member being removably secured to said first inner casing member and having a radially extending flange portion overlying the adjacent radial surface of said segment support dovetail flanges whereby, when the first and second inner casing members are secured together, said segment support dovetail flanges are prevented from disengaging from said dovetail grooves, the second inner casing member supporting a second circumferential row of wall segments forming a second portion of the inner fluid flow path, each of said second-mentioned segments having at least one portion of spherical shape, the inner end of each blade being shaped to define constant clearance spaces with the abutting segment in all positions of the blade, each of said second row of wall segments being secured to the second inner casing member by a pair of axially spaced circumferentially extending dovetail flanges each including a radially inwardly extending wall portion and an inner end portion extending axially away from said first inner casing member and engaging circumferential grooves in a pair of cooperating axially spaced circumferentially extending flanges projecting radially outward from said second inner casing member, said first row of inner wall segments having circumferentially extending edge portions projecting axially towards the second row of inner wall segments and defining therewith a circumferential clearance space of such width that said second inner wall segments are prevented from moving toward the first row of segments sufficiently to disengage the dovetails supporting the second row of segments, said second inner casing member defining a pressure chamber between said axially spaced circumferentially extending dovetail flanges, and conduit means for supplying fluid under pressure to said pressure chamber whereby said spherical surfaces of the second row of segments are biased radially outward into engagement with the adjacent ends of the adjustable blades.

2,651,497
RAIL PULLER
Lauri O. Hyvari, Orr, Minn.
Application January 9, 1951, Serial No. 205,209
2 Claims. (Cl. 254—43)



1. In a railroad rail puller, the combination which comprises a mounting frame, a pair of levers pivotally mounted through one of the ends thereof to the said mounting frame, links pivotally connected to the said levers and extended from the sides thereof, a reinforcing bracket for each lever, one end of each bracket being secured to its respective lever and each bracket extending toward the pivotally mounted end of each lever to be connected by the pivot to the lever and the pivot of the link with its respective lever extending through the respective bracket, inverted U-shape rail gripping jaws pivotally attached to the extended ends of the links, a ratchet bar extended across the extended ends of the levers with one end of the bar pivotally connected to one of the said levers, a follower pivotally connected to the extended end of the other lever and positioned with the ratchet bar extended therethrough, ratchet actuating pawls pivotally mounted in said follower and positioned to engage teeth of the ratchet bar, and a support positioned under the extended ends of one of the said levers.

2,651,498
TRAILER HOIST
Carl Straub, Nebraska City, Nebr.
Application July 31, 1950, Serial No. 176,857
3 Claims. (Cl. 254—127)



1. A trailer hoist comprising: a frame; wheels supporting the rearward end of said frame; a boom longitudinally disposed with respect to said frame; means pivotally securing the forward end of said boom to the forward end of said frame; a mast having side portions disposed respectively on each side of said boom and said portions being connected at their upper ends above said boom, the lower ends of said mast portions being connected to said frame, the boom projecting rearwardly a substantial distance from the lower ends of said mast portions in all positions of said boom relative to said frame for making possible the lifting of large objects on the rearward end of said boom without interference with said mast; a first pulley means suspended from the top of said mast between said mast portions; a second pulley means; means securing said second pulley means to said boom; and an elongated flexible means cooperative with said first and second pulley means for first simultaneously raising said mast and boom and later raising said boom alone still further, said second pulley means being disposed at a point with respect to said boom and mast such that when said boom is loaded, said mast assumes a substantially upright position and said first and second pulley means are disposed respectively one above the other in substantial alignment with said mast.

2,651,499
STABILIZED APPARATUS FOR DRILLING CURVED BORES DEVIATING FROM EXISTING VERTICAL WELL BORES
John A. Zublin, Los Angeles, Calif.
Application July 18, 1951, Serial No. 237,406
4 Claims. (Cl. 255—1.6)

1. An apparatus for drilling curved deviating bores from existing vertical well bores comprising

a combination unit adapted to be suspended from the lower end of a conventional rotary drill string, said unit embracing a flexible sectional metallic tubular nonresilient drive member, means for connecting the upper end of said drive member to the lower end of a rotary drill string to rotate in unison therewith, a drill bit carried at the lower end of said drive member for rotation thereby, a normally curved flexible resilient



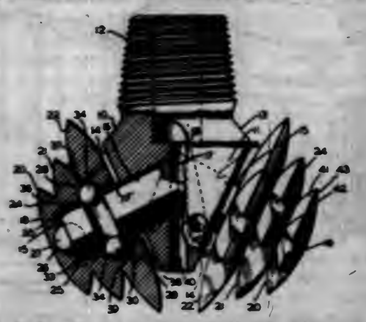
helically slotted metallic tubular drill guide surrounding a substantial portion of said drive member extending immediately above said drill bit and a separate tubular stabilizer member surrounding a further portion of said drive member and extending for a substantial distance above said drill guide, said drill guide being free to advance with said bit upon projection of said drive member through said stabilizer member.

2,651,500
ART OF DRILLING WELLS
Charles F. Teichmann, Mount Vernon, N. Y., assignor to Texaco Development Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application May 4, 1948, Serial No. 25,972
7 Claims. (Cl. 255—1.8)

1. In the art of drilling and controlling wells in which a drilling mud is circulated in the bore hole and a mud cake is formed on the walls thereof, the process comprising the steps of incorporating in the mud a material selected from the group consisting of carbohydrates and proteins, said material being capable of forming a solid constituent of said mud cake and of being metabolized by microorganisms to soluble products, forming a mud cake on the walls of the bore hole, subsequently inoculating the mud cake with bacteria of the Clostridium genus and effecting conversion of said material to soluble products by the action of said bacteria whereby said mud cake is rendered permeable while still retained on the walls of the bore hole.

2,651,501
ROTARY CUTTER FOR DRILLS
Richard D. McMahon, Vinton, La.
Application February 15, 1951, Serial No. 211,146
2 Claims. (Cl. 255—71)

1. A rotary drill bit having a head at the lower end thereof, said head being provided with spaced, flat, downwardly converging sides, each of said flat sides having a downwardly inclined spindle extending outwardly therefrom, each spindle intermediate its ends having an annular groove positioned outside of said head, a substantially cone-shaped cutter revolubly mounted on said spindle, said cutter including a shell section and an interfitting collar section spaced outwardly from said head, said shell section having an internally threaded inner end portion, said collar section having an externally threaded surface engaging said threaded end portion, said sections adjacent said annular groove having segmental opposed surfaces, ball bearings mounted in said annular groove and engaged by said segmental opposed surfaces in order that each cutter is locked to the spindle on the outside of said head, said cutter having a passage therein communicating with said ball bearings for supplying lubricant thereto, and a packing between the collar section of the cutter and the spindle to prevent entering of drilling mud into the ball bearings and the escape of the lubricant therefrom.



2,651,502
SECTIONAL WIRE FENCE
William Carvelo, Oakland, and Roland J. Morgan, Piedmont, Calif., assignors to L. A. Young Spring & Wire Corporation, a corporation of Michigan
Application June 17, 1950, Serial No. 168,732
4 Claims. (Cl. 256—33)

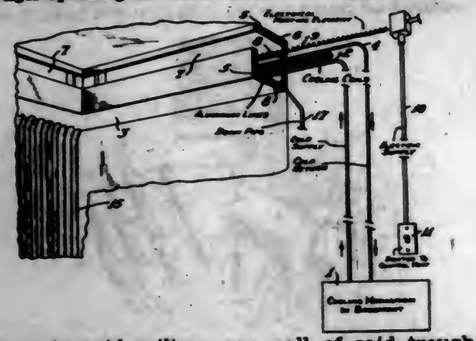


1. A wire fence structure comprising a plurality of fence sections made of stiff wire, converging transverse elements extended across the planes of the respective sections and extending beyond the respective ends of said sections, said sections being arranged in series with the more widely spaced ends of the transverse elements of one section overlapping the closer spaced ends of the transverse elements of the adjacent section, aligned eyes in the overlapping ends of said transverse elements, and a removable spike stake slidably extended through each set of aligned eyes and extended below the level of said fence and into the ground.

2,651,503
SYSTEM OF RADIANT HEAT EXCHANGING
Clarence A. Mills, Cincinnati, Ohio, assignor to Reflectotherm, Inc., Cincinnati, Ohio, a corporation of Ohio
Application December 2, 1950, Serial No. 198,805
4 Claims. (Cl. 257—8)

1. A body heat loss controlling system comprising an enclosure having a ceiling, walls, and floor,

said ceiling, walls and floor having substantially fully reflective interior surfaces for heat rays beyond the range of the visible spectrum, means for delivering into said enclosure filtered air under a pressure greater than that of the ambient atmosphere whereby soiling of the heat reflective surfaces which would make them less than substantially fully reflective is prevented, a trough opening into said enclosure supported ad-



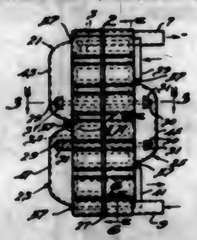
jacent to said ceiling, one wall of said trough facing into said enclosure and extending upwardly from the bottom of the trough towards said ceiling, and heating and cooling means, selectively operable, positioned within said trough, the said one wall of said trough extending upwardly to a point above the uppermost part of said heating and cooling means, so as to prevent heavy cold air from overflowing into said enclosure.

2,651,504
BASEBOARD HEATING APPARATUS FOR ROOMS
Benedict P. Gundrum and Edward D. McElhaney, Dunkirk, N. Y.; said Gundrum assignor to said McElhaney
Application December 15, 1950, Serial No. 201,002
2 Claims. (Cl. 257—133)



1. Room heating apparatus comprising a simulated base board panel of dished form in cross section adapted to open forwardly of a wall of the room to provide a longitudinal recess in front of the wall coextensive with said panel, and having a back attachable to the wall, an upwardly and rearwardly curved integral bottom edge portion for directing air upwardly into said recess, and a forwardly and upwardly curved top edge portion for deflecting air out of said recess and completing the recess at its top, resilient forwardly extending brackets spaced longitudinally in said recess and secured to said back midway between said edge portions, a hot water pipe clamped by said brackets and extending longitudinally of said recess, and a longitudinally extending strip narrower than said recess and extending along the front of said recess in front of said pipe and brackets and forming with said edge portions longitudinal narrow top and bottom air outlet and inlet slots at the front of said recess, and longitudinal flexible edge channels on said strip fitting over said brackets with a snap action for removably retaining said strip in place.

2,651,505
AUTOMOBILE HEATER
Phelps M. Freer, Detroit, Mich.
Application May 27, 1950, Serial No. 164,833
12 Claims. (Cl. 257—136)



1. In an automobile heater, the combination of a housing, a coil having passes supported on the housing, a heat conducting member between a pair of coil passes for directing fluid in a plurality of separated paths between the coil passes, and converging baffle means on the housing for directing fluid leaving the marginal path at an extremity of the pair of passes toward the paths in an intermediate portion of the passes at the same level.

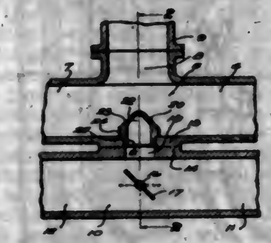
2,651,506
RADIATOR
Ernst Lehmann, Wallenstadt, Switzerland
Application March 18, 1950, Serial No. 150,389
In Switzerland March 24, 1949
8 Claims. (Cl. 257—141)



1. In a radiator of the class described, a plurality of pairs of depressed and bent plates each pair forming connecting branches to the adjacent pairs of plates, said plates being interconnected, with the connecting seams extending in planes which are parallel to each other and transversely disposed to the longitudinal direction of the radiator, in such a way that the two plates of each pair form together an inner heating agent circulation chamber while the backsides of the adjacent pairs of plates form air ascent shafts which are substantially tightly closed to the outside but open at their top and bottom ends, the outer walls of the air ascent shafts forming the substantially smooth side walls of the radiator which are not in contact with the heating agent circulation chambers.

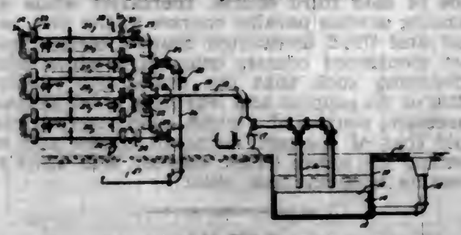
2,651,507
HEAT EXCHANGE INSERT FOR ENGINE MANIFOLDS
Hilary J. Heinecke, Ripon, Wis., assignor to Manifold Hot Spot Corporation, Ripon, Wis., a corporation of Wisconsin
Application April 1, 1950, Serial No. 153,414
2 Claims. (Cl. 257—241)

1. The combination with engine intake and exhaust manifolds having walls forming generally parallel passages and provided with contiguous central portions opposite which the inlet manifold has a carburetor connection comprising a throat, said central portions having communicating openings, of a thermally conductive plug having a threaded tubular shank screwed into one of said portions to confine gas flow through said openings, said plug comprising a hollow head larger than the shank and substantially wholly in the said intake manifold pas-



sage and into which gas from the exhaust manifold may enter through the said shank, the head having an overall diameter less than that of said throat, whereby said plug is receivable therethrough, and the top of said head comprising an upwardly projecting center substantially aligned with the throat and from which the head slopes toward opposite ends of the intake manifold for deflecting thereto over the surfaces of the head the mixture received from said carburetor connection.

2,651,508
HEAT EXCHANGE APPARATUS FOR LIQUIDS CONTAINING SOLIDS
William M. Bready, Milwaukee, Wis.
Application November 4, 1949, Serial No. 125,442
14 Claims. (Cl. 257—247)



1. In a heat exchanger, the combination with a plurality of jacket pipes closed at their ends and having lateral connections in series, of a plurality of tubes extending in parallel through each such jacket pipe and opening through said ends and provided externally of such pipes with tube-to-tube connections of substantially uniform cross section with the respective tubes, end jacket pipes in said series having end plates providing terminal mountings for the tubes within said pipes, and manifold fittings to said tubes externally of said jackets, said manifold fittings constituting the only substantial change in cross section of the passages formed by said tubes throughout the heat exchanger, supply and waste pipes having cross connections with said manifold fittings and connected therethrough with said tubes, and valves controlling said connections for placing either of said manifold fittings in direct communication with the supply pipe and either of said manifold fittings in direct communication with the waste pipe whereby flow through said tubes may be reversed to back wash the manifold fittings of the end jacket pipes.

2,651,509
TUMBLER PAD FOR DRYING MACHINES
Sam M. Hyman, Manitowoc, Wis.
Application November 1, 1951, Serial No. 254,293
4 Claims. (Cl. 259—1)



1. A tumbler pad for application to the baffles of a drying machine or the like, said pad comprising a base portion substantially co-extensive with surface of the baffle to be covered and including a cushion member, an upper portion including a cover of plastic material having an area sufficient to cover said cushion member, said plastic material serving to increase the wear resistant properties of the pad and afford only a relatively smooth surface for contact with the garments under treatment, fabric means attached to the entire raw marginal edge of said plastic material to form a protective covering for the same to preclude contact between the raw marginal edge of said plastic material and garments under treatment in said machine, and means for securing base and upper portions of said pad to forming a unitary structure.

2,651,510
MIXING DEVICE
Orlando H. Lind, Auburn, Calif.
Application August 11, 1950, Serial No. 178,831
6 Claims. (Cl. 259—143)

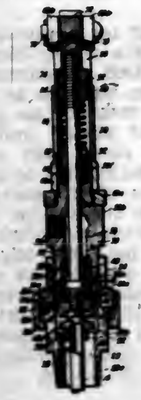


1. A mixing device including in combination a plunger having a stem movable up and down in a fluid container, a cup with a perforate bottom fixed to the lower end of the stem, a detachable perforate plate lying on the bottom of the cup and slidable on the stem toward and away from said bottom, means on said plate and said stem for limiting the movement of said plate away from said cup bottom, the perforations in the cup bottom and in the plate being out of register so that the openings in the bottom of the cup are substantially closed when the plate is in contact with said bottom, and the plate being moved away above the cup bottom when the plunger is forced down in the fluid and being held in contact with the bottom when the plunger is lifted through the fluid.

2,651,511
DEVICE FOR TEMPERING STEAM
William C. Glover, Jr., Lees Summit, and Edwin G. Stevens, Independence, Mo., assignors to Bill Glover, Incorporated, a corporation of Missouri
Application April 20, 1951, Serial No. 222,624
17 Claims. (Cl. 261—52)

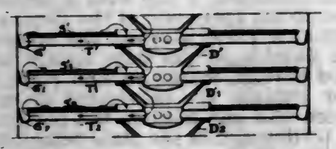
14. Apparatus of the character described, comprising a chamber having aligned ports on opposite sides thereof, a plug within said chamber movable along a path aligned with said ports, an annular seat around one of the ports adapted to be engaged by one end of the plug upon movement of same in one direction there-

by to close said one port, the other end of the plug being smaller in size than the other port whereby it enters and partially closes said other port upon movement of the plug in the opposite direction, a rigid tube extending into said chamber through one of said ports and having its end secured to the plug whereby the tube



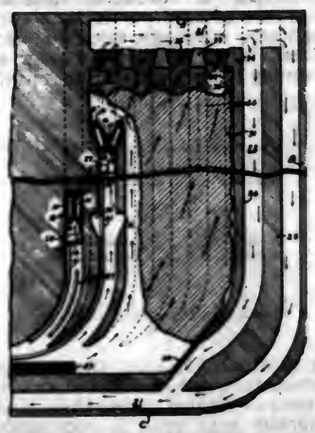
moves with the plug, said plug having a lateral bore communicating at one end with said tube and opening at the other end through the side wall of the plug intermediate the opposite ends of the plug, said side wall of the plug being spaced inwardly from the side wall of the chamber.

2,651,512
GAS AND LIQUID CONTACT APPARATUS
Jules Pierre Voleau, Boulogne-sur-Seine, France, assignor to L'Air Liquide, Societe Anonyme Pour l'Etude et l'Exploitation des Procedes Georges Claude, Paris, France
Application July 19, 1949, Serial No. 105,532
In France August 4, 1948
1 Claim. (Cl. 261—114)



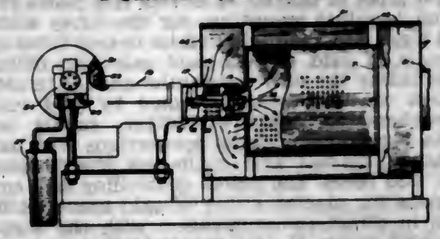
A gas and liquid contact apparatus comprising a column, a plurality of superposed contacting plates mounted in said column, liquid discharge means on each plate having an inlet portion positioned above the plate to maintain a layer of liquid on the plate, the liquid discharge means having a bottom portion below the bottom of the next lower plate, conduit means extending beneath said next lower plate for conducting liquid from the lower portion of said discharge means up to said next lower plate, said conduit means cooperating with said discharge means and with the upper portion of the discharge means of the next lower plate to form a liquid trap to provide a liquid seal of a depth equal to the distance between the lowermost portion of the top wall of said conduit means and the inlet portion of the discharge means of said next lower plate and included within the distance between the inlet portion of the discharge means of said next lower plate and the liquid level in the lower portion of said last mentioned discharge means.

2,651,513
METHOD OF MINING AND HANDLING COAL
Erskine Ramsay, Birmingham, Ala.
Application February 5, 1951, Serial No. 209,389
5 Claims. (Cl. 262—1)



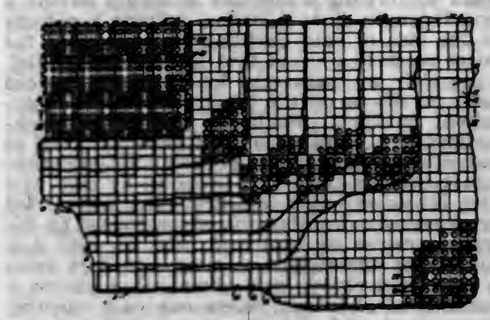
1. The method of mining coal which comprises driving air courses and headings along the remote side of the area to be mined and of a width such that the overburden requires little or no support, driving a second course parallel to and adjacent the first mentioned course and a third course parallel to and adjacent the second mentioned course leaving intervening flank pillars between the courses of a width approximating that of the first mentioned course and extending the entire length thereof, then while retreating removing from said third course approximately one-half the pillar between it and said second course and a like amount of coal from the other side of said third course, thereafter while advancing driving parallel courses to the first, second and third mentioned courses each of said last mentioned courses being of a width while advancing such that the overburden requires little or no support and leaving a pillar between successive courses of a width approximately one-half that of the next adjacent course and extending the entire length thereof, and while retreating removing said pillar.

2,651,514
APPARATUS FOR PRODUCING A HEATED GASEOUS MEDIUM
Ralston M. Sherman, Glastonbury, Conn., assignor to The Silent Glow Oil Burner Corporation, Hartford, Conn., a corporation of Connecticut
Application December 15, 1949, Serial No. 133,163
4 Claims. (Cl. 263—19)



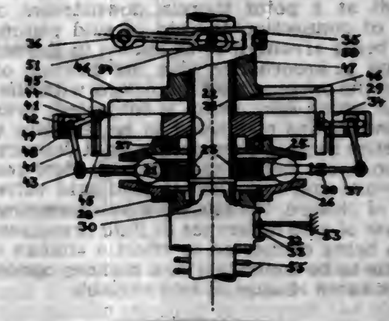
1. Apparatus for producing a heated gaseous medium comprising walls forming a combustion chamber having an opening, at least a portion of which walls is formed with a multitude of spaced small perforations other than said opening, which perforations constitute substantially the sole means of escape of combustion products from said chamber, means for heating said walls comprising burner means for entering into said chamber through said opening a blast consisting of fluid fuel mixed with requisite air for supporting substantially complete combustion of such fuel in said chamber, which burner means constitutes substantially the sole means for supplying air to said chamber, that air being contained in said mixture so supplied said chamber, walls at the exterior of said combustion chamber forming with said combustion chamber a second chamber with which said perforations directly communicate for discharging combustion products from said combustion chamber into said second chamber; the said walls at the exterior of said combustion chamber being provided with air admission and discharge openings for said second chamber, blower means for passing air through said second chamber from said admission opening to said discharge opening for contact with said perforated wall portion of said combustion chamber and in such amounts as to maintain a pressure in said second chamber less than that maintained in said combustion chamber by the blast of mixture entered into it and combustion of said mixture therein, whereby to heat the air so passed and mix it with said combustion products to form the heated gaseous medium while preventing flow of air from said second chamber to said combustion chamber through said perforations.

2,651,515
SQUARE CHECKER-BRICK
Albert B. Agnew, Philipsburg, Pa., and Frank J. Rief, Chicago, Ill.
Application September 5, 1952, Serial No. 308,112
4 Claims. (Cl. 263—51)



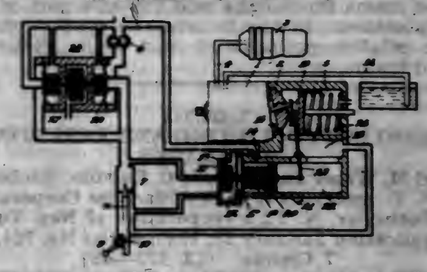
1. A square checkerbrick having upper and lower faces provided with integral lugs, one of said faces having at its corners square lugs located at the corners of a square center lug that has an area substantially equal to the combined areas of the corner lugs, whereby an oblong recess having an area equal to at least half of the area of the center lug is formed at each side of the center lug between the corner lugs at that side, the opposite face of the checkerbrick having four oblong side lugs opposite said recesses, whereby four square corner recesses are formed at the ends of the side lugs and one square center recess is formed in the area surrounded by the side lugs, the area of the center recess being substantially equal to the combined areas of the corner recesses, and the checkerbrick being provided with a plurality of gas passages connecting its upper and lower faces.

2,651,516
GOVERNING MECHANISM WITH VARIABLE FORCE
Meyer Frenkel, London, England
Application December 18, 1948, Serial No. 66,126
In Great Britain December 24, 1947
5 Claims. (Cl. 264—3)



1. In and for a governing mechanism, a centrifugal speed responsive device comprising a spindle, a set of centrifugal bodies, a guiding means for rotating said centrifugal bodies about said spindle and for permitting radial motion of said centrifugal bodies relative to said spindle, a sleeve member axially movable relative to said spindle, a connecting means between said centrifugal bodies and said sleeve member for relating radial motion of said centrifugal bodies and axial motion of said sleeve member, and manually operable means for varying the centrifugal mass effective in said speed responsive device independently of the axial position of said sleeve member, said means comprising: a frame situated adjacent at least one centrifugal body, a mounting for rotating said frame with said spindle, means mounted in said frame for locking at least said one centrifugal body in a radial position nearest said spindle, in which connection with said sleeve member is disestablished, and for releasing said centrifugal body from said radial position, and manually operable means for actuating said locking and releasing means independently of the axial position of said sleeve member.

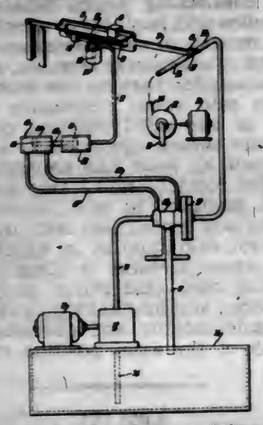
2,651,517
HYDRAULIC GOVERNOR FOR GAS TURBINE ENGINE FUEL SYSTEMS
Kenneth Roy Davies, Radbourne, near Derby, and Karl Herbstritt, Littleover, Derby, England, assignors to Rolls-Royce Limited, Derby, England, a British company
Application May 11, 1948, Serial No. 26,426
In Great Britain May 12, 1947
11 Claims. (Cl. 264—7)



3. In a hydraulic governor mechanism, a fixed-capacity hydraulic pump adapted to be driven at a speed proportional to the variable to be controlled; a delivery conduit connected to the out-

let from said hydraulic pump; variable flow-restricting means in said delivery conduit; a piston connected to be displaced in accordance with the pressure within said delivery conduit on the downstream side of said variable flow-restricing means; an outflow valve arranged to control the outflow of fluid from said delivery conduit at a point therein downstream of the point of connection thereto of said piston, said valve being arranged to be loaded in the sense of opening in accordance with the position of said piston, the opening load increasing with the pressure to which said piston is subjected; pressure-sensitive means connected to be sensitive to the difference in fluid pressures in said delivery conduit on each side of said variable flow-restricting means and arranged to load said valve in a sense of closure, the closure load increasing with increase of said difference in fluid pressures; said piston being connected to effect a change of the variable to be controlled in a manner opposite to an unwanted change of said variable.

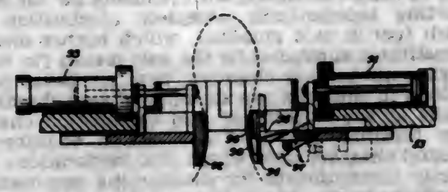
2,651,518
TARE WEIGHT SCALE
Harold A. Price, San Francisco, and Edgar Herbert Vickery, Oakland, Calif., assignors to The Rucker Company, a corporation
Application March 19, 1951, Serial No. 216,309
3 Claims. (Cl. 265—27)



2. A tare weight scale comprising a frame, a balance beam on said frame and movable into a position responsive to the weight of an article being weighed, a container on said balance beam, a displacement means having a movable part for delivering liquid to and withdrawing liquid from said container in quantities proportional to the movement of said movable part, and means responsive to the position of said beam relative to said frame for moving said movable part of said displacement means in amounts proportional to the relative positions of said beam relative to said frame.
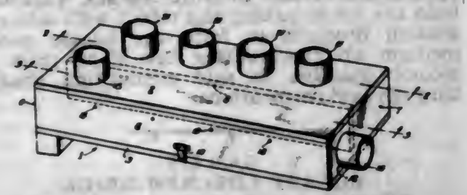
2,651,519
BOWLING PIN LIFTING AND RESETTING APPARATUS
Carl M. Weber and Thomas C. Pulvino, Rochester, N. Y., assignors to Weber Machine Corporation, Rochester, N. Y., a corporation of New York
Application January 28, 1947, Serial No. 724,792
7 Claims. (Cl. 273—42)

1. A bowling pin setting machine including a frame movable upwardly and downwardly, a pair of opposed jaws mouned for substantially horizontal movement in said frame, one of said jaws having a pivoted part, means for moving said one of said jaws toward a bowling pin until said pivoted part makes contact with said bowling pin, means controlled by movement of said pivoted part of said jaw for stopping further movement



of said jaw and for commencing movement of the opposite jaw toward the opposite side of the bowling pin, and means for raising said frame with the bowling pin grasped between said jaws to raise the pin from the bowling alley.

2,651,520
GAME WITH BALL-OPERATED GATES
Peter J. Ragusin, Tinley Park, Ill.
Application January 18, 1951, Serial No. 206,635
6 Claims. (Cl. 273—118)



1. In a game, in combination, a plurality of movable objects, a game-board having a first inlet for receiving at least one of said objects and an outlet for discharging said object, said game-board comprising a box-like structure having a central longitudinal partition defining a runway on one side of said partition for delivering the object received by said first inlet to said outlet, a plurality of transverse longitudinally spaced apart partitions on the other side of said longitudinal partition defining a plurality of compartments, a plurality of first gates disposed at spaced locations along said runway for successive engagement by the object received by said first inlet, pivots on which said first gates are carried for swinging movement, the effort exerted by the object received by said first inlet on said first gates being insufficient to turn said first gates to clear said object, said game board having a plurality of additional inlets one each opening into each of said plurality of compartments for receiving the other objects, and additional gates one each positioned in said plurality of compartments and carried by the same pivots of said first gates for turning said pivots and said first gates by the combined effort of the object received by said first inlet on said first gates and of the objects received by said additional inlets on said additional gates to advance the object received by said first inlet to a succeeding gate when said object is in engagement with the actuated gate.

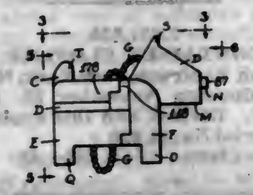
2,651,521
GAME PIECE WITH PUNCH
George F. Wales, Kenmere, N. Y.
Application April 11, 1950, Serial No. 155,150
20 Claims. (Cl. 273—136)

15. A game device for a game of chess, checkers, and the like, comprising a support, a gameboard carried by said support and marked off in a plurality of playing spaces and having a plurality of apertures extending therethrough in a pattern corresponding to positions to which gamepieces may be moved on said spaces, a record form which is mounted on said support for movement under said gameboard, said record



form being adapted to have apertures provided therein to indicate moves of gamepieces, a light-transmitting gamepiece for use on said gameboard, and a light source mounted on said support beneath said record form so that light may pass through the apertures in said record strip, the apertures in said gameboard, and said gamepiece, when aligned.

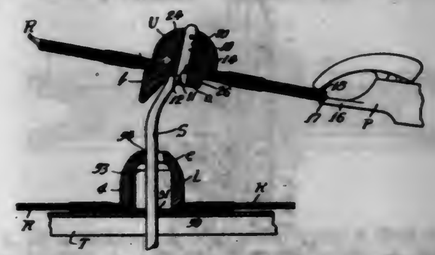
2,651,522
PUZZLE AND CARRIER DEVICE
I Hartley Steinhardt, New York, N. Y.
Application April 9, 1947, Serial No. 740,280
2 Claims. (Cl. 273—160)



1. A puzzle assemblage comprising a plurality of six interlocking molded plastic parts each forming part of the structure, each of said parts having a sliding connection in respect to each of said other parts and each of said parts being mounted in sequence upon preceding assembled parts by a sliding movement, said parts being assembled in a predetermined sequence to form an object having a curved exterior, and each of said parts having projections and recesses, which take the form of inwardly and oppositely projecting leg members with separating grooves, said leg members and said grooves being of rectangular cross section and said legs and grooves on one side of each of said parts fitting into and engaging correspondingly shaped recesses and legs on the previously assembled parts, at least two of said parts having a plurality of recesses on an inside face thereof, and a chain the end of which is received in said recesses and which is locked in position by said inside face being contacted against an inside face of another of said parts.

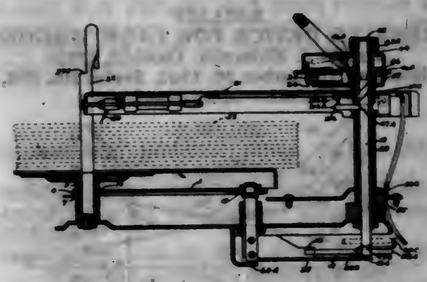
2,651,523
ADAPTER FOR PHONOGRAPH RECORDS
Colin B. Dale, Oak Park, Ill., assignor to Webster-Chicago Corporation, Chicago, Ill., a corporation of Illinois
Application February 28, 1951, Serial No. 213,163
1 Claim. (Cl. 274—10)

For use with a phonograph having a rotatable turntable and coaxially thereof an upstanding non-rotatable spindle of relatively small diameter provided intermediate its ends at one side thereof with a shoulder to support a stack of records with center holes of small diameter corresponding with that of the spindle, the lowermost record being laterally shiftable off the shoulder to drop towards the turntable; a removable adapter for receiving and centering, with respect to the spindle, a stack of records having relatively large diameter center holes, said adapter having a center aperture to receive the spindle, an



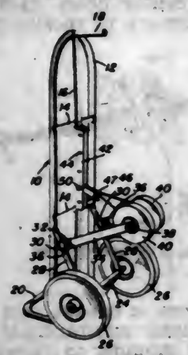
alignment aperture to engage said spindle shoulder, and a shoulder substantially in alignment with the spindle shoulder to support the stack of records having large holes the lowermost of which may be laterally shifted off the shoulder to drop toward the turntable.

2,651,524
RECORD CHANGER HEAD
Walter Miller and James L. D. Morrison, Benton Harbor, Mich.
Application November 21, 1946, Serial No. 711,450
3 Claims. (Cl. 274—10)



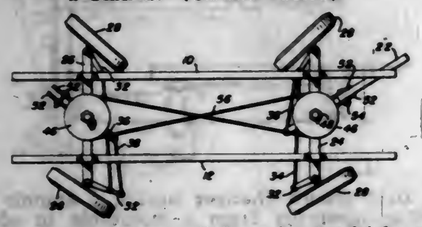
1. In a record changer having a spindle extending upwardly from a turntable in alignment with the axis thereof, a ledge carried by the spindle and extending laterally from one side thereof in vertically spaced relation to the turntable and upon which the center portions of a stack of record disks is supported above the turntable, a tone arm adjacent the turntable to move about a vertical axis toward the axis of the turntable during the playing of a record and to shift vertically and move beyond the edge of the turntable upon completing the playing of the record, a head mounted above the tone arm to oscillate about the vertical axis, a slide carried by the head for adjustment radially to the vertical axis of the head for movement with the head in a horizontal arcuate path about said vertical axis, a record supporting lip carried by the slide for movement therewith from a position beneath the stack of records to a position to one side of the stack of records, means carried by the head and operatively connected to the tone arm for moving the lip to one side of the stack of records when the tone arm moves beyond the edge of the turntable, and a shoulder carried by the slide movement therewith toward the spindle to urge the bottommost record off of the ledge when the lip moves to one side of the stack of records.

2,651,525
ADJUSTABLE CURB HOPPER
Thomas J. Achee, New Orleans, La.
Application August 27, 1951, Serial No. 243,769
2 Claims. (Cl. 280—5.22)



1. A hand cart comprising a frame, a front axle supported on the frame, brace means between the axle and the frame, a rear pair of coaxial axles, anchor elements fixed on the brace means, links terminally pivotally connected to said elements and to said rear axles, a channel fixed to the frame perpendicular to the axles, a connecting member having a bifurcated end carried by the rear axles and a straight portion adjustably secured to the channel, a rear wheel on each rear axle and forward wheels on the front axle.

2,651,526
STEERING DEVICE FOR FARM WAGONS
Arnold J. Eubanks, Oakhill, Ohio
Application November 26, 1951, Serial No. 258,170
2 Claims. (Cl. 280—33.55)



1. A running gear unit for a land vehicle comprising front and rear axles, wheels pivotally secured to the ends of each axle, arms carried by a spindle of each wheel, tie rods between the wheels of each axle, combined steering and towing members pivotally mounted on each axle by a pivot pin, drag links carried at one end of each steering and towing member, the drag links being connected to one wheel of each axle, pulley members carried by said pivot pins and rigidly secured to said steering and towing arms, a resilient member extending between and around said pulley members for turning of said rear wheels in response to the turning of said front wheels, said flexible member being endless and looped in the form of a figure eight and attached to said pulley members in non-slipping engagement, whereby said rear wheels are turned in an opposite direction from said front wheels.

2,651,527
RIDER PROPELLED TOY VEHICLE
Robert Edward Theren, Moses Lake, Wash.
Application June 6, 1949, Serial No. 97,431
10 Claims. (Cl. 280—218)

1. A vehicular exercising toy comprising a body portion to be ridden upon, front and rear carriage sections carrying said body portion and connected thereto for relative movement of said sections toward and away from each other, each of said carriage sections including wheels spaced apart a substantial distance, means guiding one of said carriage sections for turning about an upright axis for steering the toy, ground-engaging unidirectional stop means carried by said turnable carriage section at a generally central location thereon and disposed to engage the ground



only in the vicinity of such upright turning axis, and ground-engaging unidirectional stop means carried by the other carriage section, said two unidirectional stop means being operable, by engagement with the ground, to restrain movement of their respective carriage sections in one direction along the ground while permitting such movement in the opposite direction and permiting unrestrained turning of said turnable carriage section about such axis unaccompanied by forward movement of said body portion.

2,651,528
CONTAINER CLOSURE
Joseph Robinson, New York, N. Y.
Original application November 28, 1944, Serial No. 565,461. Divided and this application July 28, 1948, Serial No. 41,020
6 Claims. (Cl. 285—49)



1. In a closure receiving ring-like insert for a metal container, in combination, a wall of the container having an opening defined by an outwardly extending sleeve, the outer end portion of the sleeve having an annular inwardly directed flange formed with a depressed marginal wall against which a gasket is adapted to seat, a lug extending downwardly from the inner edge of said wall and an externally flanged ring-like insert, internally threaded for the reception of a flanged closure plug, disposed within said sleeve and having an annular depression formed to receive said marginal wall and to provide a seat for a gasket, said annular depression having at its base a recess which receives said lug, a portion of the metal forming the inner end of the sleeve being forced into engagement with said insert beneath the flange of the latter to firmly grip and maintain the insert within said sleeve with said lug locked in said recess, whereby wrenching down of the plug materially augments the holding effect between said lug and the annular depression to lock the insert against rotation relative to said container wall.

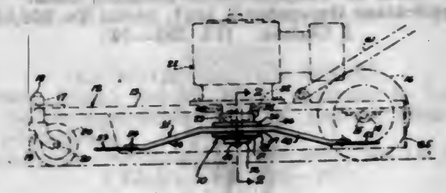
2,651,529
WATERTIGHT CABLE CONNECTOR
Albert J. Wayman, East Palestine, Ohio
Application July 31, 1951, Serial No. 239,490
4 Claims. (Cl. 285—6.5)

1. A connector for an electric cable comprising a sleeve surrounding said cable and providing an annular space therein surrounding said cable, one end section of said sleeve having a screw-thread formed on the outer surface thereof and having an inner surface of frusto-conical form, a stopper ring of resilient water-impervious material surrounding said cable within said frusto-conical section of said sleeve, said stopper ring being tapered on the outside to conform with the tapered inner wall of said sleeve and having a portion thereof of greater diameter than said annular space, a screw-cap screwed on said screw-thread and engaging said stopper ring to



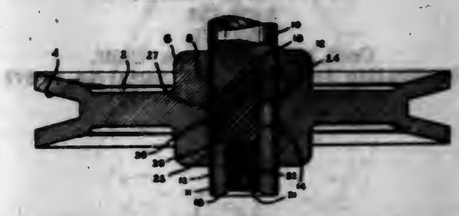
force the ring into said sleeve and thereby to press said ring inwardly against said cable, a plurality of ribs formed on the inner tapered surface of said sleeve at spaced points about the axis thereof and arranged parallel with said axis to prevent turning of said ring with said screw-cap, said screw-cap having a cable-receiving aperture presenting open spaces therein around said cable, and a ring of adhesive permanently-plastic sealing compound surrounding said cable and filling the open spaces in the cable-receiving aperture of said screw-cap.

2,651,530
DRIVE CONNECTION
Harold L. Blydenburgh, Detroit, Mich., assignor to The Mote-Mower Company, Detroit, Mich., a corporation of Michigan
Application February 21, 1950, Serial No. 145,463
1 Claim. (Cl. 287—53)



A hub unit for holding a motor-driven rotary element comprising a hollow cylindrical tubular member having an abutment flange adjacent one end thereof and an externally-screw-threaded portion on the opposite end thereof, said tubular member having an outer cylindrical rotary-element-receiving surface and an inner cylindrical motor-shaft-receiving bore coaxial therewith and having a longitudinally-disposed drive-transmitting groove therein, said tubular member also having a counterbore of larger diameter than said bore coaxial with and opening into said bore from the threaded end thereof, said cylindrical outer surface of said tubular member having a rotary element drive-transmitting portion thereon, and an annular closure member snugly secured in said counterbore and united fixedly and permanently to said tubular member against relative motion therebetween, said closure member having a central fastener-receiving hole therethrough coaxial with said bore and counterbore.

2,651,531
RESILIENT LOCKING MEANS
Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware
Application April 22, 1950, Serial No. 157,595
2 Claims. (Cl. 287—53)



1. In a locking device, comprising a first member having a passage therethrough, a second member having an end closely fitting said passage and having a longitudinally extending recess therein and an outwardly extending opening communicating with said passage intermediate the ends of said recess, spring means carried in the inner end of said recess and provided with an abutment surface, resilient but substantially non-compressible material disposed in said outwardly extending opening and said recess in engaging relation with said abutment surface, and adjustable pressure applying means at the outer end of said recess for applying pressure to said material to force the same against said abutment surface and to cause the same to contact said first member and limit relative axial movement between said members, said spring means acting to limit the pressure applied to said resilient material.

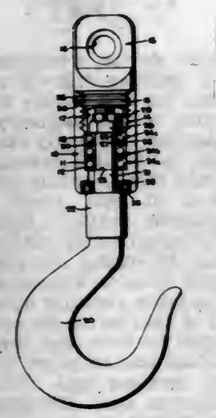
2,651,532
CLAMP FOR SCAFFOLDING TUBES AND LIKE MEMBERS
Archibald Alfred Hobbs, London, England, assignor to Acrow (Engineers) Limited, London, England
Application June 12, 1947, Serial No. 754,242
In Great Britain October 16, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires October 16, 1965
2 Claims. (Cl. 287—54)



1. A clamp assembly for tubes comprising two members and a swivel joint connecting said members together so that the members may turn relative to each other, means defining a groove-like recess in each of said members having a substantially part-cylindrical surface of substantially the same radius as the tube to be clamped, and a clamping screw for each member the axis of each screw being parallel to the

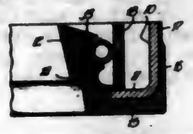
axis of the swivel joint between the members and adapted to pass through the tube disposed in the recess therein to the side of the axis thereof remote from the part-cylindrical surface and outside the axis of the said swivel joint.

2,651,533
SWIVEL
Cecil Miller, Pomona, Calif.
Application August 10, 1948, Serial No. 43,372
2 Claims. (Cl. 287—91)



1. A swivel for heavy static loads which includes: an elongated housing having an axial bore therethrough with an internal shoulder adjacent one end; an end coupling member having a shaft extending coaxially into said bore from its shoulder end, said shaft having an upper portion of reduced diameter forming an external shoulder on said shaft adjacent said housing shoulder; a plurality of bearing assemblies each having inner and outer races and spherical balls seated in annular grooves in the adjacent cooperating faces of each of said pair of cooperating inner and outer races, the grooves of said outer races all having axially upwardly presented ball engaging faces and the grooves of said inner races all having axially downwardly presented ball engaging faces, the lowermost of said outer races resting only on said shoulder within said housing and the balance of said outer races being unyieldingly supported in coaxial relationship on said lowermost outer race, the lowermost of said inner races resting only on said shoulder on said shaft and the balance of said inner races being unyieldingly supported in coaxial relationship on said lowermost inner race; a lock nut threadedly engaged on said shaft and bearing against the uppermost of said inner races to hold said inner races tightly against said shoulder on said shaft; and an opposite end member having a threaded axial hub engaged within the end of said housing opposite said internal shoulder, and bearing against the uppermost of said outer races to hold said outer races tightly against said shoulder within said housing, said hub having an internal cavity of larger diameter than the outer diameter of said inner races for spacing said hub therefrom and receiving said nut and the upper end of said shaft therein.

2,651,534
SEALING DEVICE
Thomas O. Kosatka, Chicago, Ill., assignor to Victor Manufacturing & Gasket Co., Chicago, Ill., a corporation of Illinois
Application June 15, 1949, Serial No. 99,134
5 Claims. (Cl. 288—3)



1. A device for sealing the space between a shaft and a bore in a housing through which the shaft projects comprising: a metallic shell, an outer cylindrical wall of said shell having an outside diameter slightly less than the diameter of the bore; a thin hollow cylinder of elastomer bonded to the outside surface of said wall, said elastomer being no thicker than the metal in said shell and the outer face of said elastomer cylinder having a diameter greater than the diameter of the bore; a cylindrical section of said elastomer adjacent one end of said metallic wall thinner than the remainder of the elastomer and having an outside diameter no greater than the diameter of the bore, and connected to said greater diameter part of the elastomer by a tapered surface; said section forming a lead-in ring that facilitates registering the shell with the bore and resists shearing stresses on the bond as the remainder of the cylinder is forced into the bore and the elastomer therein is displaced to support the shell in fluidtight engagement with the housing; and means supported on the shell and engaging the shaft for forming a fluidtight seal between the shell and the shaft.

2,651,535
SASH BALANCE FOR DOUBLE HUNG WINDOWS
Emil M. Padjen, Citrus Heights, Calif.
Application December 7, 1951, Serial No. 260,500
3 Claims. (Cl. 292—74)



1. A sash holder adapted to be mounted in a window stile having a pair of spaced longitudinally extending grooves formed in its outer face and a recess interconnecting said grooves at their upper ends and a like recess interconnecting said grooves at their lower ends, said holder comprising an elongated channel member having its sides positioned in said grooves, and spring means in each of said recesses for urging said channel member outwardly from said stile, said means

including a cam pivotally mounted in each recess and having an outwardly extending portion and an integrally formed inwardly extending portion, said outward portions bearing against the bight portion of said channel member, a vertical plate in each of said recesses, an outwardly extending lower arm formed integrally with the lower end of said plate, a like arm formed integrally with the upper end of said plate, said lower arm bearing against the underside of the inwardly extending portion of the cam, and a spring for urging said upper arm in an upward direction.

2,651,536
HASP TYPE CASE LATCH
Eugen Doquier, Iserlohn, Germany, assignor to Heinrich Hulter, Jr., Iserlohn, Westphalia, Germany, a firm of Germany
Application March 12, 1952, Serial No. 276,109
In Germany March 29, 1951
7 Claims. (Cl. 292—165)



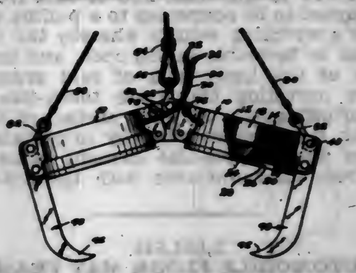
1. A case lock comprising a casing having an opening, a thumb piece disposed in the said opening of the casing and pivotally mounted in the latter upon an axis parallel to and offset from the front face of the said thumb piece, the said casing having a slot adapted to receive a loop member of a hasp when in locked position, and a latch bolt adapted to be projected into and withdrawn from the hasp loop, the said latch bolt being of flat cross-section and mounted for longitudinal sliding in the said casing, the said latch bolt including a part having a surface oblique with respect to the path of travel of the latch bolt and cooperating with a part of the said thumb piece remote from the said pivotal axis, so that upon pressing upon the said thumb piece, the said latch bolt is withdrawn.

2,651,537
ESCUTCHEON FOR DOORS
Edwin Ewald, Detroit, Mich., assignor to Automotive Appliance Company, Detroit, Mich., a partnership
Application November 15, 1949, Serial No. 127,404
1 Claim. (Cl. 292—357)



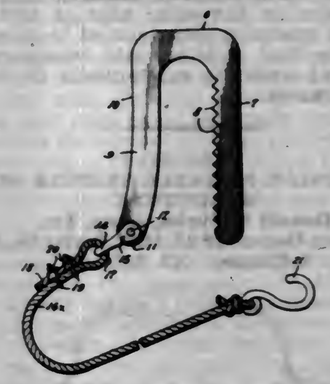
An escutcheon structure comprising a nonmetallic flexible member of generally truncated conical form open at its ends with a relatively smaller opening at one end, said flexible member having an integral flange within said smaller opening and extending axially thereof, said flexible member being compressible axially thereof so that the end having the smaller opening may be moved toward the opposite end, reinforcing ribs formed integral with said flexible member interiorly thereof, and a metal collar disposed within the smaller opening and extending over said flange, said metal collar having a flange extending outwardly over the outer periphery of said smaller opening.

2,651,538
LIFTING MAGNET
Bernhardt Stahmer, Omaha, Nebr.
Application November 12, 1948, Serial No. 59,687
1 Claim. (Cl. 294—65.5)



A lifting magnet comprising: a plurality of magnetic units disposed side-by-side, said magnetic units each having a substantially flat work-engaging surface; two pairs of ears one pair secured to and protruding outwardly from adjacent sides of each of said units, the ears of a pair being spaced apart with respect to each other, said ears having apertures therethrough extending in parallelism with said surface; a connecting member disposed between the ears of both of said adjacent units, said connecting member having two opposite side surfaces inclinedly disposed with respect to each other, said connecting member having an aperture therethrough adjacent each end of each inclined side surfaces; removable bolt means for securing said connecting member to said ears through selected ones of said connecting member apertures; and cable-like lifting members attached one each to said connecting piece and to the outer extremities of the outermost sides of said units.

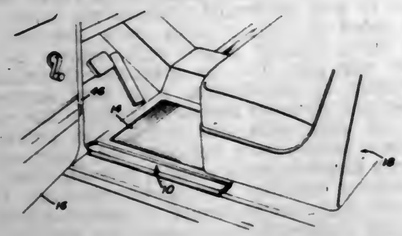
2,651,539
EMERGENCY GRAPPLE
Leo F. Poinal, Somerset, Pa.
Application June 20, 1950, Serial No. 169,184
1 Claim. (Cl. 294—82)



A jammed door opener for wrecked automobiles for facilitating removal of occupants comprising in combination an inverted U-shaped grapple-like member having a bight portion and front and rear legs, the space between said legs at all points being at least equal to the thickness of the thickest automobile door at the site of the window sill thereof, and at least the front arm of said member progressively diverging away from said rear arm whereby to provide a tapering entrance opening for said grapple-like member to facilitate engagement of same with an

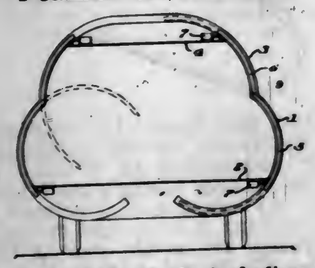
automobile door at the site of the window sill, the bight portion of said grapple-like member adapted to engage the window sill of an automobile door when in use, a flexible cable connection secured to the outer end of said front arm and adapted to be connected to a pulling element such as a wrecking vehicle whereby the jammed door can be forceably pulled open, and the inner surface of the inner arm of said grapple-like member providing transverse tooth-like serrations for biting into the inner surface of the door to which it is applied whereby to obviate possibility of the grapple-like element being pulled loose from its connection with the automobile door.

2,651,540
AUTOMOBILE FLOOR MAT FRAME
Vincent J. Zullo, Chicago, Ill.
Application August 20, 1951, Serial No. 242,675
4 Claims. (Cl. 296—1)



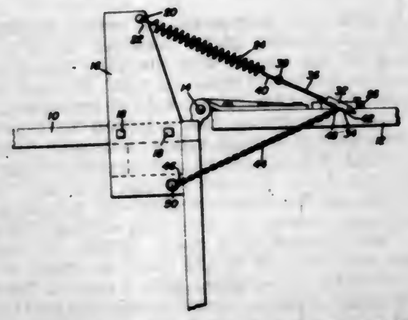
1. In a vehicle body having a floor, a door opening having door frames intersecting the edge of the floor, a transversely curved floor molding on said floor between said door frames and a floor mat on the floor, a frame for attaching the floor mat to the floor molding comprising upper and lower plate members, said plates being spot welded together adjacent the outer edge to provide a V-shaped mouth adapted to receive the edge of a floor mat, said upper plate being bent transversely of the mouth to provide mat engaging jaws adjacent the inward edge of said frame, an extension on the outer edge of said upper plate, said extension being curved to clampingly engage the floor molding, said extension being of sufficient width to substantially fit between the door frames.

2,651,541
VERTICALLY MOVABLE VEHICLE DOOR STRUCTURE
Donald C. Surles, Cisco, Tex.
Application December 23, 1948, Serial No. 66,918
4 Claims. (Cl. 296—44)



1. In an automotive body including a bowed top, a floor and arcuate side walls joining the floor and top, said side walls each being formed from equal arcuate segments respectively of circles of equal circumferences having spaced centers lying in the same horizontal plane, each side wall and respective top portion having a door opening therein; an upper door panel closing the upper portion of each opening in the respective top portion and a lower door panel normally closing the lower portion of each opening in said side wall, each of said upper and lower door panels being independent of one another, said upper and lower door panels adapted to abut respectively at their inner edges when in their closed position; said upper door panels being slidable under the bowed top and the lower door panels being slidable under the floor to fully uncover the opening, the outer ends of said upper and lower door panels being in spaced relation when they are in their fully opened positions, each respective upper and lower door panel being independently slidable in arcs of different chords, means for actuating each upper door panel and independent means for actuating each lower door panel.

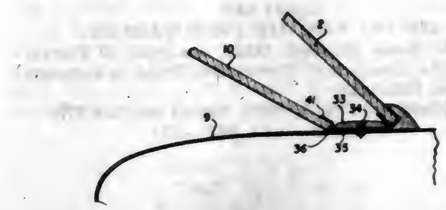
2,651,542
CHOPPER BOX GATE CONTROL
Alvin J. Meyer, Dorchester, Wis.
Application September 18, 1952, Serial No. 310,311
3 Claims. (Cl. 296—56)



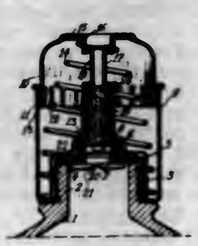
3. In a chopper box including a vertically swingable closure having a horizontal pivot, a cushioning means for the closure comprising an anchor plate attached to the box and extending upwardly well beyond the pivot, and a coil spring terminally attached to the upper portion of the plate and the closure, said spring extending above the pivot when the closure is in its open position and shifting across the pivot as the closure is moved to its closed position to retain the closure in its closed portion, and means adjustably and pivotally attaching one end of the spring to the closure, said means attaching one end of the spring to the closure including a plate member secured to the closure, a sleeve pivotally mounted on the plate member and a rod slidably adjustably received in the sleeve and attached at one end to the spring, and a limiter chain terminally attached to said plate and said plate member limiting opening movement of said closure.

2,651,543
INSIDE REFLECTION VISOR FOR AUTOMOBILES
Robert J. Chonoski and Horace W. Hacker, La Grange, Ill.; said Chonoski assignor to said Hacker
Application July 26, 1950, Serial No. 175,938
5 Claims. (Cl. 296—97)

1. A reflector visor for mounting on the inside of an automobile in a position to extend inwardly and upwardly from adjacent the bottom of the front windshield to protect against light reflection from the top of the automobile instrument panel and parts adjacent thereto, said visor comprising a sheet of flexible material of greater width at its center than at its ends, means for mounting said sheet in a position extending across the automobile and inwardly and upwardly from the lower edge of the windshield, and a flexible holding strip adapted to be secured across the automobile and along the lower edge of the windshield, said flexible holding strip having a shoulder against which the lower edge of the flexible visor sheet bears to limit its movement in a direction forward of the automobile.

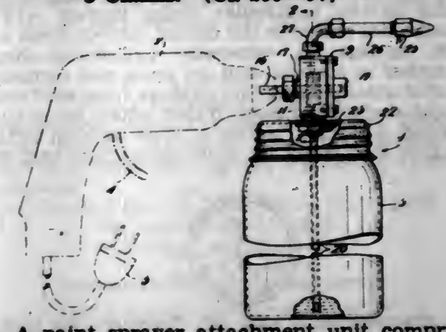


2,651,544
SPRAYING APPLIANCE
Salvador Cuadras, Saint-Leu-la-Foret, France, assignor to Helbrefin S. A., Geneva, Switzerland, a corporation of Switzerland
Application May 29, 1950, Serial No. 164,941
In France June 9, 1949
13 Claims. (Cl. 299—88)



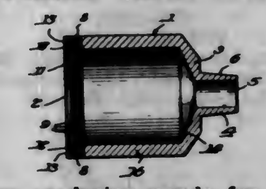
1. Spraying attachment of the type described adaptable to a container opening, said attachment comprising a deformable enclosure including a fixed and a depressible part spring-urged to expanded condition, a duct rigid with said depressible part and extending at one end toward said container, means defining a valve seat on said fixed part of the enclosure, valve means carried by said duct for engaging said valve seat and sealing said duct from communication with the interior of said container in the expanded condition of the enclosure, and being removed from said seat to provide communication from the container to said one end of the duct in the contracted condition of the enclosure, absorbent means in said duct to receive an amount of the container's contents introduced into the duct by a first contraction of the enclosure when the spraying attachment is disposed with said one end of the duct uppermost so that said duct provides an intermediate capacity for the storage of the thereby received amount of the container's contents, and air-passage means between the enclosure and the duct whereby a renewed contraction of the enclosure causes a discharge of air from the enclosure through the duct effective to discharge in the form of spray said amount stored in the intermediate capacity.

2,651,545
PAINT SPRAY ATTACHMENT DEVICE
John C. Shotton, Lakewood, Ohio
Application May 31, 1950, Serial No. 165,289
5 Claims. (Cl. 299—97)



1. A paint sprayer attachment unit comprising a container cap, gear pump means secured to said cap, a discharge tube connected to said pump means, a suction tube connected to said pump means, a discharge nozzle, and booster means connecting said discharge tube to said nozzle.

2,651,546
FOAM PRODUCING ATTACHMENT
George H. Palm, Chicago, Ill., assignor to Illinois Stamping & Mfg. Co., Chicago, Ill., a corporation of Illinois
Application September 8, 1950, Serial No. 183,742
8 Claims. (Cl. 299—107)

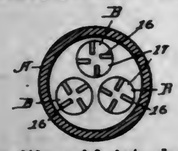


1. A foam producing nozzle for spray guns, and the like, comprising a substantially rigid cylindrical shell open at one end to form a discharge opening and an end wall at the opposite end provided with an opening, a hollow stem of lesser diameter than the shell formed with and extending outwardly from said end wall and communicating with the shell interior through said opening, said stem being externally tapered, said shell having an internal shoulder formed adjacent said open end, a plurality of flexible foraminous discs of a size to enter the open end of the shell upon deformation of the discs and seat upon said shoulder, and a peripheral lip formed with and extending radially inwardly adjacent the open end thereof, said lip overlying portions of the outermost disc, the inner edge of said lip being spaced axially outward from said shoulder a distance approximately equal to the combined thickness of said discs, the radial dimension of said lip being less than the corresponding dimension of said shoulder and of a size to normally retain said discs in operative position, but permitting the discs to be sprung into and out of engagement with the shell without distortion thereof during the insertion and removal of the discs.

2,651,547
NOZZLE HEAD
Rollin S. Calhoun, Oceanside, Calif.
Application February 27, 1950, Serial No. 146,539
1 Claim. (Cl. 299—114)

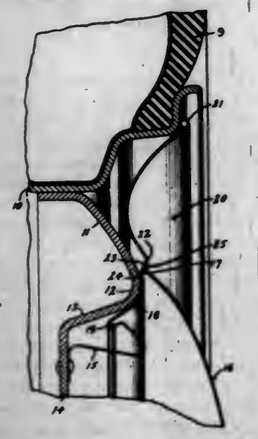
A fog nozzle comprising a nozzle internally screw-threaded to receive at one end a duct sup-

plying liquid under pressure, a liquid-delivery chamber in said nozzle connected with said duct, an annular group of three spray jet units threadedly received into the other end of said nozzle and connected with said chamber, each of said units having a circular outer surface with a small axial orifice in the center thereof flush with said surface, a generally cylindrical-shaped chamber in each of said jet units and connected to said axial orifices, the passage from said cylindrical-shaped chamber to said orifice being cone-shaped, a circular series of four whirler slots in each of said spray jet units connecting said noz-



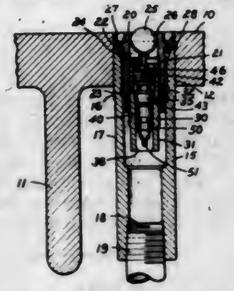
zle chamber with said jet chamber, the axis of each centrally-directed whirler slot being at approximately 120° to its adjacent slot, each of said whirler slots being slanted upwardly and circumferentially at an acute angle relative to the axis of the orifice jet, each of said whirler slots being cut up through the circular, bottom surface of the jet unit on off-set, chords, the passage of the liquid through the whirler slots, jet chamber and jet orifices being such that sprays are caused to commingle by whirling impingement beyond the delivery end portion of the nozzle to produce highly refined liquid fog.

2,651,548
WHEEL COVER
George Albert Lyon, Detroit, Mich.
Application December 12, 1947, Serial No. 791,306
2 Claims. (Cl. 301—37)



1. In a wheel structure including a wheel having flanged tire rim and body parts and a central hub cap detachably retained on the body part, an annular trim ring extending radially outwardly beyond the hub cap over the body part and having a radially inner margin in the form of a sharp crest rigidifying hub-cap-pry-off tool leverage rib projecting axially outwardly substantially beyond and in radially outwardly spaced adjacency to the outer edge of the hub cap, the radially inner side of said rib being inclined axially and radially inwardly toward the body part and terminating in a radially inwardly extending seat for the outer edge of the hub cap to bear against and clamped against the wheel body by the hub cap, the trim ring radially outwardly of said rib extending into radially outwardly and axially inwardly offset relation to the crest of the rib so as to afford complete pry-off tool leverage clearance, the hub cap being the sole means for holding the trim ring on the wheel.

2,651,549
AIR JET FOR AIR FILM TABLES
Royal E. Ross, Dayton, Ohio, assignor to Harris-Seybold Company, Cleveland, Ohio, a corporation of Delaware
Application July 9, 1947, Serial No. 759,778
1 Claim. (Cl. 302—17)

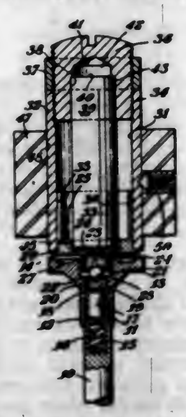


In a work table having a horizontal work supporting surface provided with a plurality of openings therethrough, the combination of a plurality of sleeves each press fitted within one of said openings, a plurality of annular adapters each having a through passage, means for supporting each said adapter in the upper end of one of said sleeves with the upper end of said adapter substantially flush with said work table surface, each said adapter passage being of reduced diameter at the upper end thereof, a ball freely rotatable and reciprocable in each said adapter passage and of such diameter as to be capable of only partial protrusion beyond said reduced upper end of said passage, a plurality of valve units each including a valve and a vertically reciprocable control member, means in each said valve unit for guiding the reciprocating movement of said control member, a plurality of separate pressure air lines each connected with the lower end of one of said sleeves, means for securing one of said valve units to each said adapter at a position intermediate the ends of the associated said sleeve with said valve in position to control the flow of air from said air line through said adapter passage and with said control member extending upwardly within said passage, and means in each said valve unit for biasing said control member thereof upwardly to close said valve and to support the associated said ball in said position of partial protrusion above the upper end of said adapter for free rotation within said passage and for downward movement therein against said biasing means causing opening of said valve.

2,651,550
MAGNETIC BEARING SUSPENSION FOR ELECTRIC MEASURING INSTRUMENTS
Frank Allen Sharp, Enfield, England, assignor to Sangamo Electric Company, Springfield, Ill., a corporation of Illinois
Application March 2, 1951, Serial No. 213,497
In Great Britain March 6, 1950
12 Claims. (Cl. 308—1)

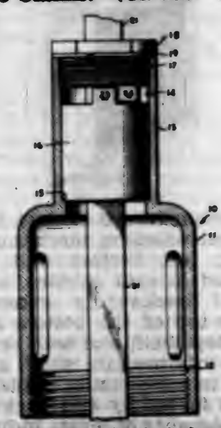
1. In a magnetic bearing suspension for a watthour meter of the type having a moving

system comprising a spindle rotating about a vertical axis, the combination of a permanent magnet of straight bar type extending upwardly above the upper end of said spindle, an outer tubular shell of magnetic material having its upper end magnetically joined to the upper pole extremity of said permanent magnet and extending downwardly around said magnet in magnetically spaced relation thereto, the lower end of said permanent magnet defining a downwardly facing inner annular pole face of one polarity, and the lower end of said outer shell defining a downwardly facing outer annular pole face of



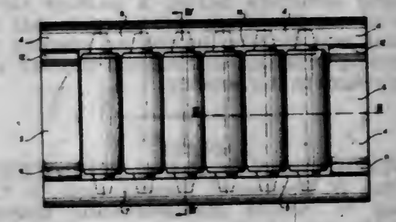
opposite polarity disposed concentrically of said inner annular pole face and magnetically spaced therefrom, and a rotating magnetic armature disk mounted on said spindle to rotate directly below said inner and outer annular pole faces concentrically thereof, said armature disk cooperating with said inner and outer annular pole faces to establish concentrically disposed inner and outer annular flux gaps therebetween, the flux from said permanent magnet passing through said armature disk and flux gaps in series and exerting a lifting action and a centering action on said spindle.

2,651,551
PULL ROD LOCK FOR PUMPS
Evert T. Ingram, Compton, Calif.
Application November 21, 1949, Serial No. 128,610
5 Claims. (Cl. 308—3)



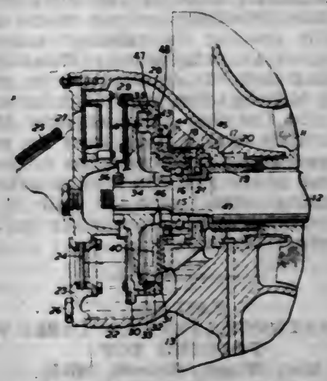
1. A bearing cage adapted for attachment to a pump means having a non-circular cross-section as described, comprising in combination a body having a bore formed with a seat, a bushing on said seat having a non-circular aperture for said means, a bushing retaining collar having threaded engagement in said bore, and means to permit limited rotation of said bushing in said bore, said means comprising interengaging lugs on said bushing and collar.

2,651,552
FLAT BEARING MEANS
Alfred Pitner, Paris, France, assignor to Société dite: Societe Anonyme des Roulements a Aiguilles, Rueil-Malmaison, France, a French company
Application July 18, 1950, Serial No. 174,503
In France July 18, 1949
4 Claims. (Cl. 308—6)



1. Flat bearing assembly which comprises a rectangular frame including side walls and end walls, a set of cylindrical bearing elements with reduced end-portions mounted in juxtaposed relation in said frame, an up- and in-turned flange along each side wall defining an inwardly-open channel, said cylindrical element end-portions rotatably seated in said channels with said flanges freely overlapping said end-portions to confine said bearing elements transversely of said frame, and said end walls confining said elements longitudinally of said frame.

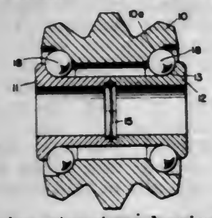
2,651,553
LIQUID PUMP
Edward Alec Simonis and Frank Robinson Heath, Harrow, England, assignors to D. Napier & Son Limited, London, England, a British company
Application February 23, 1950, Serial No. 145,704
In Great Britain March 8, 1949
4 Claims. (Cl. 308—127)



1. A high speed rotary machine which includes a substantially horizontal rotatable shaft, a bearing supporting said shaft, a mounting structure for said bearing, and an oil pump for supplying oil to said bearing, said pump comprising a rotatable driven member directly mounted on said shaft, an inwardly facing annular surface on said member, circumferential grooves formed in said

annular surface, a housing completely enclosing said rotatable driven member except that said housing is provided in its periphery with an aperture adjacent to the upwardly moving side of said rotatable driven member, a sump, oil partly filling said sump and in which said housing is partly immersed with said aperture lying above the surface of the oil, a submerged nozzle projecting into said housing through which oil can flow by gravity from the sump on to said annular surface, a metering orifice in said nozzle adapted to meter the rate at which liquid is applied to said annular surface, said bearing mounting structure having a non-rotatable scoop mounted in the upper part of said housing and adapted to scoop from said annular surface oil which is carried round thereby, said bearing mounting structure having a passage through which oil can flow from said scoop to said bearing, and said housing having an opening communicating with said bearing and through which oil can return to the housing.

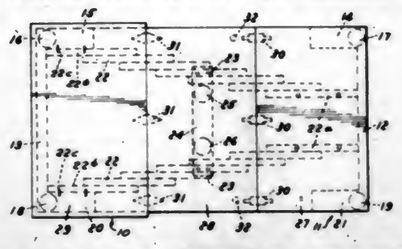
2,651,554
ANTIFRICTION BEARING STRUCTURE
Frederick W. Recknagel, Poughkeepsie, N. Y., assignor to Schatz Manufacturing Company, Poughkeepsie, N. Y., a corporation of New York
Application November 30, 1951, Serial No. 259,149
7 Claims. (Cl. 308—196)



1. In a bearing structure having relatively rotatable inner and outer bearing elements at least one of which is a composite ring with a pair of complementary ring members, a lock ring to unite the complementary members into a virtually unitary bearing ring, said lock ring being of soft ductile metal and preformed with a rim of transversely bent shape lending itself to transverse contractile deformation said ring being insertable between adjacent ends of the complementary members into respective recesses in the members and initially spacing the adjacent ends of the members apart, said ring being sufficiently elastic to be sprung into the recesses in the members detachably to hold them prior to deformation of the ring, and the ring being capable of transverse contractile deformation upon the members being pressed closer together so as to produce a flow of metal of the ring rim into intimate interlocked bonding contact with the walls of the recesses for substantially permanently uniting the complementary members.

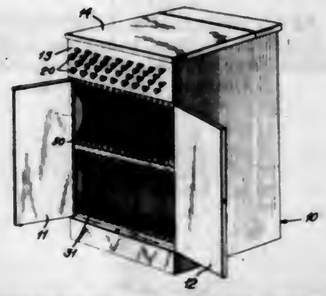
2,651,555
COMBINATION EXTENSION TABLE WITH FOLDING TOP
Max Wurm, Detroit, Mich.
Application January 20, 1950, Serial No. 139,685
1 Claim. (Cl. 311—67)

A combination extension table having an extensible supporting base movable from a collapsed to an extended position having four identical main legs and comprising a pair of similar complementary end sections, to each of which a pair of said main legs are rigidly mounted in symmetrical relationship, a pair of conventional table slides each having a plane uninterrupted top surface connecting said end sections for horizontal sliding movement to and from each other, and a sectional folding top mounted on said base consisting of a bottom leaf rigidly secured to one of said end sections and a top leaf and an intermediate leaf unsecured to said base, each of said leaves being of an area substantially equal to the area of said base when the latter is collapsed, hinge means for connecting said leaves for superimposed folded relationship upon said supporting base when the latter



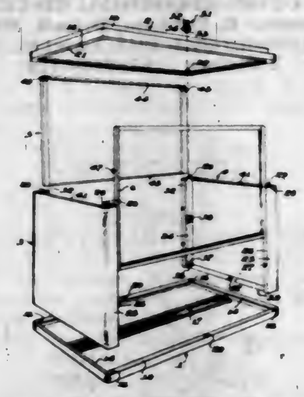
is collapsed to form therewith an ornamental occasional table or in an extended position to be supported by said slides when said base is extended to form a dining table with each of said leaves in contacting engagement along their entire width with the top surface of said slides, said hinge means having no portions projecting above the top surface of said leaves when the latter are extended and said top leaf having a depending flange secured to its lower face along the front and two side edges thereof only to mask the parting line between said top and intermediate leaves when said top is folded and serving to brace said top leaf and prevent warping thereof.

2,651,556
PHONOGRAPH RECORD CABINET WITH RECORD SELECTING MECHANISM
Pascal C. Zaccardo and Dominick Iannone, Rosedale, N. Y.
Application June 9, 1949, Serial No. 97,981
2 Claims. (Cl. 312—15)



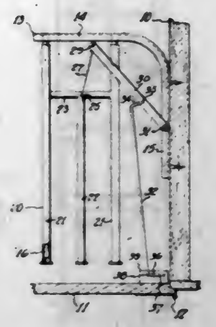
1. A phonograph record cabinet having a record holding and selecting mechanism, comprising a cabinet, top, bottom and intermediate shelves mounted in said cabinet, a plurality of forwardly and backwardly extending tracks formed on the top of the bottom shelf, on the bottom of the top shelf, and both on the top and bottom of the intermediate shelf, a plurality of record holders mounted on said shelves for slidable movement forwardly and backwardly along said tracks, a plurality of levers individually connected to said record holders, a plurality of lever-actuating members individually connected to said levers, whereby said levers may be actuated individually to move the record holders from forward position to backward position and from backward position to forward position along their respective tracks, and means for pushing the records forwardly when the record holders are moved forwardly, said means comprising rear walls on the record holders which engage the peripheral edges of the records and push the records forwardly simultaneously with the forward movement of said record holders, said record holders being also provided with side walls which support the sides of the records and with cutouts in said side walls which expose portions of the records when they are stored in said record holders.

2,651,557
KNOCKDOWN CABINET-TYPE DISPLAY TABLE
James B. Kelly, Jr., Pittsburgh, Pa., assignor to Flannery and Associates, Inc., Pittsburgh, Pa., a corporation of Pennsylvania
Application March 30, 1948, Serial No. 18,050
5 Claims. (Cl. 312—257)



1. A knockdown cabinet-type table comprising a pair of end panels, a rear panel, a top, a base, said end panels having their vertical marginal portions bent inwardly to form the vertical table corners, said rear panel having each of its vertical marginal portions bent interiorly toward the table center and then outwardly from the table center and rearwardly back upon itself to form connecting loops, said inwardly bent portions at the back of said end panels each having an extension flange bent interiorly toward the table center and then outwardly toward its adjacent table corner, said rear panels connecting loops telescopically engaging said outwardly turned flanges of said end panels, and said telescopic engagement pulling said interiorly bent flanges of both the end panels and the rear panels into tight engagement, each of said end panels also having its upper marginal portions bent horizontally inwardly then upwardly back upon itself into looped flanges which terminate short of the table corners, said table top having its marginal edges bent upwardly, outwardly, and downwardly and terminating in an inwardly extending horizontal flange disposed below the plane of the table top surface, each of said end panels looped flanges fitting around the portion of said table top horizontal flange at the ends of the table and restraining lateral spreading of the end panels, a downwardly extending lug carried near each corner portion of said table top horizontal flange, and horizontal slotted members carried by said end panels between the ends of their looped flanges and their inwardly bent marginal portions, the slots of said members receiving said lugs, and said end panels resting on and being detachably secured to said table base.

2,651,558
EXTENSIBLE RACK
Albert V. Elder, Portland, Oreg.
Application April 17, 1948, Serial No. 21,671
1 Claim. (Cl. 312—274)

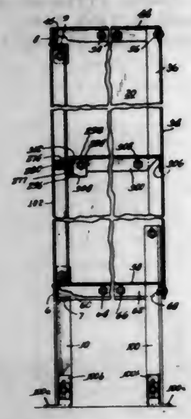


An extensible rack mechanism for a closet or the like having a side wall and a door vertically hinged at the front end of said side wall, comprising a frame having a horizontal member extending along one side of the rack and adapted for mounting on said side wall to furnish the sole support of the rack, a rack member having a plurality of parallel horizontal bars mounted on said frame for longitudinal parallel movement relative to said frame member, a lever pivotally mounted on said frame member and pivotally connected with said rack member, and a link connected with said lever and disposed along said one side of the rack for connection with said door to extend said rack member out of the closet when the door is opened.

2,651,559
LOCKER CONSTRUCTION
John B. O'Connor, Aurora, Ill., assignor to Lyon Metal Products, Incorporated, Aurora, Ill., a corporation of Illinois
Original application May 31, 1946, Serial No. 673,566, now Patent No. 2,568,592, dated September 18, 1951. Divided and this application May 29, 1948, Serial No. 30,054
7 Claims. (Cl. 312—329)

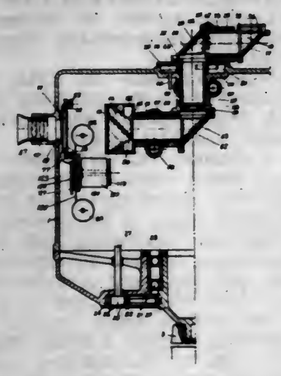
3. A sheet metal cabinet comprising a rigid rectangular front including spaced parallel vertical angle irons, a pair of sheet metal sides and a sheet metal rear, said sides and rear having overlapping flanges secured together at the corner portions, and the front vertical walls of the sheet metal sides being secured to confronting flanges of the vertical angle irons of the front frame, a partition support having legs bolted to the opposed sides of said cabinet substantially at the front thereof, said partition support being spaced from the top and bottom walls of said cabinet, said partition support including a forwardly projecting horizontal flange and a rear integral depending flange disposed at right angles to said horizontal flange, a horizontal partition having depending flanges at its sides bolted to the side walls of said cabinet, said partition having a forwardly depending flange welded to

the depending flange of said partition support and having a forward portion extending above the horizontal flange of said partition support, and a pair of doors hingedly mounted to one of the front vertical members of said rigid framework and adapted to close the front of said cabinet above and below the horizontal flange of



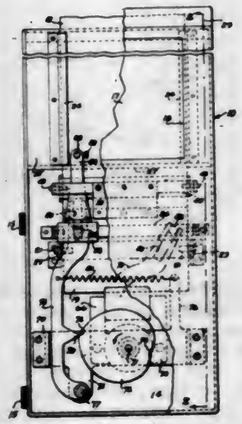
said partition support, said upper door abutting in closed position that portion of the horizontal partition extending above the horizontal flange of said partition support, and the upper portion of the lower door having an inwardly extending flange abutting the depending flange of said partition support.

2,651,560
OBSERVING APPARATUS, PARTICULARLY FOR OBSERVING OBJECTS MOVING IN SPACE
Alfred Gerber, Zurich, Switzerland, assignor to Contraves A. G., Zurich, Switzerland, a company organized under the Swiss laws
Application December 29, 1947, Serial No. 794,310
In Switzerland July 5, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires July 5, 1965
6 Claims. (Cl. 346—2)



1. An optical apparatus comprising a sighting device which is rotatable about an axis for adjustment corresponding to a coordinate; a rotatable recording mechanism for recording the position of the sighting device; means for transmitting the rotary movement of the sighting device to the recording mechanism; a source of power constructed for transmitting an additional rotary movement to the recording mechanism; further means for automatically putting the source of power out of action upon correspondence of the positions of the sighting device and recording mechanism; control members having a working and a rest position and constructed to keep, in the working position, both the source of power and the means for transmitting movement out of action and thereby to arrest the recording mechanism on simultaneous further movement of the sighting mechanism, said control members being constructed, on the one hand, to bring the source of power into action on switching from the working to the rest position and thereby to effect a follow-up of the recording mechanism with reference to the sighting mechanism limited by the said further means, and, on the other hand, to bring into action also the means for transmitting movement and thereby additionally to adjust the recording mechanism by the sighting mechanism.

2,651,561
PRODUCTION RECORDING INSTRUMENT
Norman R. Benham, Detroit, Mich.
Application July 1, 1948, Serial No. 36,520
2 Claims. (Cl. 346—119)



1. An instrument for recording upon a record strip the workpiece production of a machine, comprising a rotary record strip feeding member engageable with said record strip, normally inactive electric motive mechanism operatively connected to said feeding member to rotate the same, an electrically-operated control device including an escapement, said control device being connected to said mechanism and including a production-sensitive element adapted to be connected to a moving part of said machine and movable thereby intermittently in response to the completion of production of workpieces by said production machine for imparting a step-by-step operation to said electric motive mechanism, a stylus engageable with said record strip, a stylus support movable to and fro across said record strip transversely to the direction of travel thereof, and a timing device operatively connected to said stylus support and effective to move said stylus support at a uniform speed forwardly and reversely to and fro across said record strip whereby to trace out a stepped production record line on said record strip having the steps thereof representing the number of workpieces produced.

CHEMICAL

2,651,562
SEPARATION OF NICKEL CONTAINED IN NICKELIFEROUS COBALT ALLOYS
Marcel De Merre, Hoboken-lez-Anvers, Belgium, assignor to Societe Generale Metallurgique de Hoboken, Hoboken-lez-Anvers, Belgium
No Drawing. Application December 31, 1949, Serial No. 136,430. In Great Britain January 7, 1949
2 Claims. (Cl. 23—134)

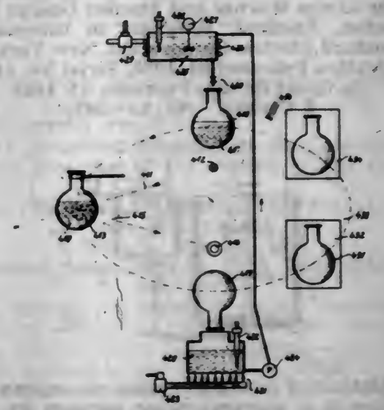
1. In the separation of nickel from cobalt contained in a cobalt-nickel alloy, the process which comprises heating such an alloy with a suspension of sulfur in a dilute aqueous inorganic acid solution having a pH within the range of from about 1 to 5, starting the treatment with a low pH value within said range and permitting it to rise during dissolution of the alloy to the upper end of the range, whereby the nickel precipitates in the form of nickel sulfide and the cobalt goes into solution, and removing the precipitate.

2,651,563
METHOD OF PREPARING PURE BARIUM AND STRONTIUM HYDROXIDES
Mahlon J. Rentschler, Willoughby, Ohio; Delia J. Rentschler, executrix of said Mahlon J. Rentschler, deceased
No Drawing. Application September 24, 1947, Serial No. 775,969
4 Claims. (Cl. 23—186)

4. In the method of producing a chemically pure hydroxide of the class consisting of barium hydroxide and strontium hydroxide from their corresponding impure carbonate form containing initially water insoluble iron and sulphur compounds comprising the steps of preparing a dry mixture containing carbon particles with the selected carbonate, heat calcining the mixture to produce a product containing the oxide form of the starting carbonate, treating the product thus obtained with hot water producing a solution of the hydroxide and insoluble Fe and S complex, filtering the solution to separate out said Fe and S complex, and recovering the thus purified selected hydroxide, the step of adding a material from the class consisting of MgO and $Mg(OH)_2$ in the process prior to the filtering operation.

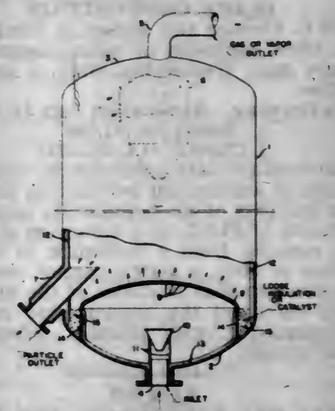
2,651,564
CRYSTALLIZING APPARATUS
Alvin Marks, New York, N. Y.
Application April 12, 1946, Serial No. 661,582
3 Claims. (Cl. 23—273)

1. An apparatus for growing crystal structures comprising a vertically positioned shaft having a rotatable circular trough connected thereto, a separate stationary, heating element surrounding one sector of the circular trough, a separate stationary cooling element surrounding a second sector of the circular trough and a separate stationary support for mounting a seed crystal



thereto, said support being located within the circular trough in the third sector thereof.

2,651,565
APPARATUS FOR UNIFORM DISTRIBUTION AND CONTACTING OF SUBDIVIDED SOLID PARTICLES
Donald J. Bergman, Kenilworth, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application May 2, 1951, Serial No. 224,237
3 Claims. (Cl. 23—288)



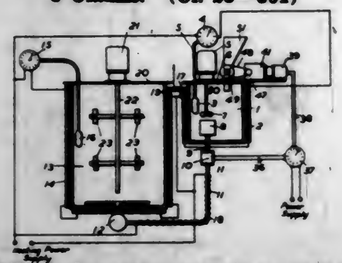
1. Apparatus for uniformly distributing and contacting subdivided particles at an elevated temperature which comprises a vertical contacting chamber having a bottom closure head provided with a fluid inlet therethrough, a fluid outlet at the upper portion of the chamber, a perforated distributing plate extending across the lower portion of the chamber above said bottom

closure head and terminating short of the side walls of the chamber, a supporting skirt member extending upwardly from said head to the peripheral portion of said plate, a stationary, loose insulation fill in the space between said skirt member and the side walls of the chamber, and a particle outlet for said chamber intermediate said fluid outlet and said plate.

2,651,566
METHODS AND APPARATUS FOR GROWING CRYSTALS

Arthur James Warner and Stanley George Foord, London, England, assignors to International Standard Electric Corporation, New York, N. Y.

Application February 11, 1950, Serial No. 143,688
In Great Britain February 14, 1949
3 Claims. (Cl. 23—301)



1. Method of growing crystals at constant temperature in a supersaturated solution by circulating a solution between a growing container in which crystals are grown and a dissolving container maintained at a higher temperature than that of the growing container, which method is characterised by the maintenance of said dissolving container at a constant temperature sufficiently high to keep the solution therein appreciably below saturation, measuring the concentration of the solution entering the growing container, and controlling the addition of solute to the dissolving container in accordance with such measurement.

2,651,567
FLARE COMPOSITION

Herbert C. Clauser and Robert S. Long, Westerville, Ohio, assignors, by mesne assignments, to Kilgore Inc., Westerville, Ohio, a corporation of Ohio

No Drawing. Application July 31, 1948, Serial No. 41,746
1 Claim. (Cl. 52—23)

A combustible flare composition consisting of a mixture of ammonium perchlorate and a shellac, the quantity of the perchlorate ranging from a maximum of 97.5% to a minimum of 50%, the shellac ranging from a minimum of 2.5% to a maximum of 50%, a textile carrier imbedded in said mixture so that particles of the mixture intimately surround the carrier, said carrier being impregnated with nitrates, predominately thorium nitrate.

2,651,568
PROCESS FOR PREVENTING THE PRECIPITATION OF INSOLUBLE SALTS OF PHENOXYACETIC ACIDS

Emile Leblon, Brussels, Belgium, assignor to Solvay & Cie, Brussels, Belgium, a Belgian company

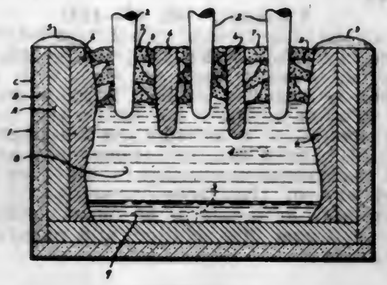
No Drawing. Application December 5, 1951, Serial No. 260,114. In Belgium December 7, 1950
4 Claims. (Cl. 71—2.6)

1. In a process for preventing the fomation of insoluble compounds when preparing dilute solutions of soluble salts of phenoxyacetic acids with hard water, said soluble salts of phenoxyacetic acids being employed in a form comprising said salts in a concentration substantially in excess of 10%, the step of adding to said salts a soluble salt of diglycolic acid in amount sufficient to inhibit precipitation of said insoluble compounds from said hard water.

2,651,569
METHOD FOR THE PRODUCTION OF ALLOYS

Roland P. Loewen and John H. Starr, Anniston, Ala., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

Application March 23, 1951, Serial No. 217,154
12 Claims. (Cl. 75—10)

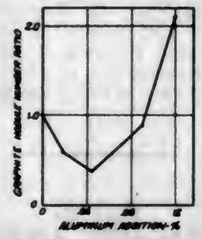


1. The method of producing metallic silicides by electrothermal reduction, which comprises introducing a mixture of carbon and a metal-containing material around the electrodes of an electric furnace and silica around said mixture and smelting the resulting charge, said metal-containing material being selected from the group consisting of iron, copper, nickel, cobalt, chromium, magnesium, manganese, tungsten, titanium, molybdenum, boron, vanadium, zirconium, compounds and ores containing said metals.

2,651,570
MANUFACTURE OF MALLEABLIZED WHITE CAST IRON

Richard W. Heine, Madison, Wis., assignor to Wisconsin Alumni Research Foundation, Madison, Wis., a corporation of Wisconsin

Application November 19, 1949, Serial No. 128,274
1 Claim. (Cl. 75—130)



Method of making white iron castings which are subsequently malleablized comprising; melting iron, removing a plurality of samples of the molten iron and adding thereto aluminum in graduated amounts ranging below that necessary to produce mottling to in excess thereof, combining with the molten iron a deoxidizing addition of aluminum equal to said amount required to produce mottling less 0.10%, and thereafter casting the molten metal.

2,651,571
ALKALINE TREATING METHOD FOR OBTAINING RAMIE AND OTHER FIBERS

John C. van Dyk, Bernardsville, N. J., assignor, by mesne assignments, to Howard E. St. John and Laura P. St. John, both of Mendham, N. J., jointly

No Drawing. Application June 26, 1948, Serial No. 35,522
7 Claims. (Cl. 92—10)

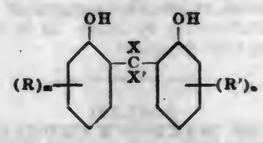
1. The method of producing fibers processable by a conventional textile fiber processing system from undecorticated fiber-containing vegetable material selected from the class consisting of ramie, linen flax, jute, hemp, sisal, pita, and seed flax, comprising digesting the material with a buffered aqueous solution of an alkali metal silicate having a pH of 12.4 to 13 and containing about 0.37 to about 1.2% by weight of active alkali metal oxide at a pressure in the range of about 15 to 45 p. s. i. and at a boiling temperature, and maintaining the solution at said pH throughout the course of said digesting step.

2,651,572
PRESERVATION OF FORAGE CROPS WITH PHENOL DERIVATIVES

Emanuel M. Bickoff, Berkeley, Calif., assignor to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application November 15, 1951, Serial No. 256,590
8 Claims. (Cl. 99—8)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. The process of stabilizing a forage crop which comprises incorporating therewith a compound containing two alkylphenol nuclei linked at their 2 positions to a bivalent aliphatic radical, said compound having the formula:

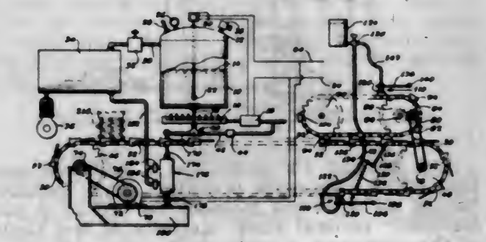


wherein R and R' are alkyl radicals, m and n are integers from 1 to 4, and X and X' are each a member of the group consisting of hydrogen and alkyl radicals.

2,651,573
PROCESS FOR MANUFACTURING CONFECTIONS

John M. Leach, Port Washington, N. Y.

Application November 13, 1948, Serial No. 59,845
4 Claims. (Cl. 99—134)



1. A process of making a product which in the candy industry is technically termed "hard candy," which comprises dispersing a mixture of "hard candy" ingredients containing sugar in a thin cross-sectional volume over an area so that the entire volume of mixture can be substantially instantaneously heated, rapidly applying heat to said mixture to raise it substantially instantaneously to final desired cooking temperature to bring about the chemical and physical changes in the mixture which will produce "hard candy" when the mixture is cooled, and suddenly releasing said volume from said heat to avoid caramelization of the sugar.

2,651,574
PROCESS FOR MAKING CANDIES, CONFECTIONS, ICINGS, AND THE LIKE AND THE RESULTING PRODUCT

Earle O. Whittier, Washington, D. C., dedicated to the free use of the People of the United States

No Drawing. Application June 8, 1951, Serial No. 230,679
9 Claims. (Cl. 99—134)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A process for making candy, confections and icings, without use of heat which comprises mixing confectioners' sugar having crystals of the size desired in the finished product, a dried milk product containing lactose in the amorphous form, and dry flavoring materials, adding gradually sufficient aqueous liquid to convert the mixture into a paste, stirring the paste and causing the amorphous lactose of the dried milk product to crystallize as the hydrate.

2,651,575
FRUIT-CONTAINING FROZEN CONFECTIONS AND PROCESS FOR PRODUCING THE SAME

William F. Talburt, Berkeley, and Dante G. Guadagni, Lafayette, Calif., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application November 2, 1951, Serial No. 254,624
14 Claims. (Cl. 99—136)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. The process which comprises impregnating pieces of fruit with a full-flavored fruit juice concentrate, mixing the impregnated fruit with a sweetened, flavored edible liquid and freezing the mixture whereby to prepare a frozen confection in which the fruit pieces have a soft texture and an enhanced natural fruit flavor.

2,651,576
CARAMEL COLOR COMPOSITIONS

Joseph B. Longenecker and James E. Cleland, Granite City, Ill., assignors to Union Starch & Refining Company, Columbus, Ind., a corporation of Indiana

No Drawing. Application November 30, 1950, Serial No. 198,488
3 Claims. (Cl. 99—148)

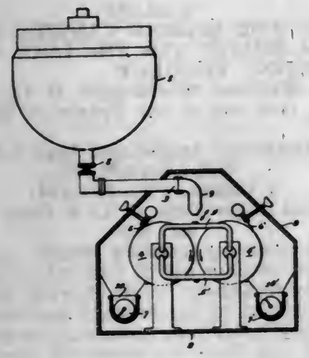
1. A water solution consisting essentially of water, substantially pure caramel coloring compounds of 30 to 50 tinctorial power and a non-toxic water soluble alcoholic compound selected from the group consisting of propylene glycol, propylene and ethylene glycol polymers and fatty acid derivatives of said glycol polymers.

2,651,577

METHOD OF PRODUCING A CARAMEL COLOR OF HIGH TINCTORIAL POWER IN THE FORM OF SOLID PARTICLES OR A DRY POWDER

James E. Cleland, Granite City, Ill., Harry W. Curry, St. Louis, Mo., and Alvin L. Meyer, Granite City, Ill., assignors to Union Starch & Refining Company, Columbus, Ind., a corporation of Indiana

Application January 11, 1951, Serial No. 205,508
4 Claims. (Cl. 99—148)



1. The process of making caramel color in the form of a dry powder of high tinctorial power comprising the steps of burning a sugar solution in an open kettle to obtain a tinctorial power of 20–50 and a water content of 4–7%, discharging the burned product while maintaining the heat of said kettle to keep the mass in a liquid state during the discharging of the said kettle and rapidly cooling the mass immediately after discharging to produce a hardened friable mass.

2,651,578

PACKAGE AND METHOD OF MAKING IT

Stephen M. Bodolay, Springfield, and Daniel S. Vecchia, Medford, Mass., assignors to Stephen Bodolay, Inc., Springfield, Mass., a corporation of Massachusetts

Application December 13, 1949, Serial No. 132,696
14 Claims. (Cl. 99—171)



1. A package comprising a wafer and a protective casing for the wafer, the casing consisting of a single thin sheet of transparent moisture-impervious material, the sheet forming substantially parallel top and bottom walls, side walls and end walls, marginal portions of the sheet being overlapped along one side wall and at opposite ends of the package, respectively, overlapping portions of the material, at opposite ends of the package and adjacent to said side wall, being heat sealed together along each of two narrow, vertically spaced, horizontal areas one of which is adjacent to the top wall of the package.

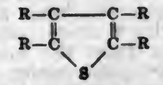
2,651,579

HALOGENATED THIOPHENE PESTICIDE

Ralph E. Plump, Haddonfield, N. J., assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application August 12, 1946, Serial No. 690,085
17 Claims. (Cl. 99—225)

1. A pesticidal composition comprising the compound



in which "R" is selected from the group consisting of hydrogen and halogen and combinations thereof, at least one "R" being halogen, admixed with a pesticidal adjuvant as a carrier therefor.

2,651,580

MINERAL COATED PAPER AND COATING COMPOSITION THEREFOR

Arthur Reilly, Westbrook, Maine, assignor to S. D. Warren Company, Boston, Mass., a corporation of Massachusetts

No Drawing. Application September 1, 1949, Serial No. 113,683
12 Claims. (Cl. 106—144)

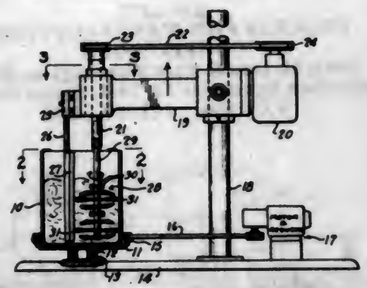
1. A fluid mineral paper coating composition comprising an aqueous medium having dispersed therein a major proportion of a finely divided mineral pigment and a minor proportion of a hydrophilic adhesive, the ratio of pigment to adhesive being such that a dried coating formed from said composition will contain capillary interstices and pores between the pigment particles and that the coating will not fail while being printed, said coating composition containing also an ammonium soap of a natural resin having a high acid value, the weight of the resin in said soap amounting to from .25 to 5 percent of the weight of said pigment.

2,651,581

METHOD OF MAKING A CUPRAMMONIUM CELLULOSE SOLUTION

Edward J. Courtney, Oaklyn, N. J., assignor to Cellulose Fibers Incorporated, Toledo, Ohio, a corporation of Ohio

Application July 30, 1952, Serial No. 301,660
4 Claims. (Cl. 106—167)



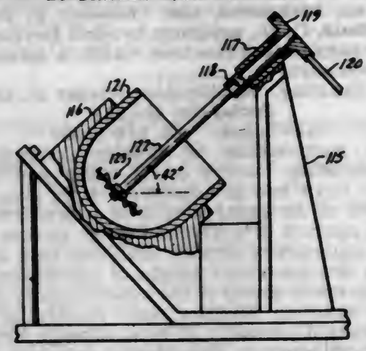
1. A method for preparing a cellulose solution which comprises providing in a container having an agitating member carried by a substantially vertical shaft laterally of the center of the container, a mixture of alpha cellulose, a causticizing agent therefor, a soluble copper compound, water and ammonia to form a copper ammonium complex, violently agitating the mixture by rotating the member while rotating the container in a direction opposite to that of the agitating member to provide a zone of agitation, whereby all parts of the mixture are rapidly and repeatedly brought into and out of the zone of agitation and the ingredients are formed into a substantially fiber-free solution.

2,651,582

METHOD OF MAKING A CUPRAMMONIUM CELLULOSE SOLUTION

Edward J. Courtney, Oaklyn, N. J., assignor to Cellulose Fibers Incorporated, Toledo, Ohio, a corporation of Ohio

Application December 22, 1952, Serial No. 327,207
10 Claims. (Cl. 106—167)



1. A method for preparing a cellulose solution which comprises providing in a container having an agitator a mixture of cellulose, a causticizing agent therefor, a soluble copper compound, water and ammonia to form a copper ammonium complex, violently agitating the mixture by rotating the agitator at a speed of from about 1200 to about 3500 revolutions per minute to provide a zone of agitation, whereby all parts of the mixture are rapidly and repeatedly brought into and out of the zone of agitation and the ingredients are formed into a substantially fiber-free solution.

2,651,583

NONGLARE COATING COMPOSITION

Edward N. Horn, New York, N. Y., and John Samko, Jr., Newark, N. J., assignors to Sun Chemical Corporation, Long Island City, N. Y., a corporation of Delaware

No Drawing. Application September 19, 1951, Serial No. 247,358
4 Claims. (Cl. 106—208)

3. A composition capable of forming thin, transparent films having non-glare properties when applied to transparent surfaces consisting of approximately 5–20% by weight of a water-soluble vegetable gum, approximately 0.25 to 5.0% by weight of a substantially transparent water-soluble organic dyestuff, approximately 0.05–2.0% by weight of a water-soluble wetting agent, and water.

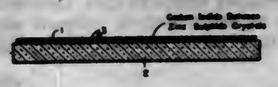
2,651,584

X-RAY FLUORESCENT SCREEN

Richard L. Longini and Walter J. Hushley, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 25, 1948, Serial No. 51,258
3 Claims. (Cl. 117—33.5)

1. An optical screen comprising zinc sulphide crystals having caesium iodide in the space intervening between them and means for supporting said crystal in a layer, the relative weights of



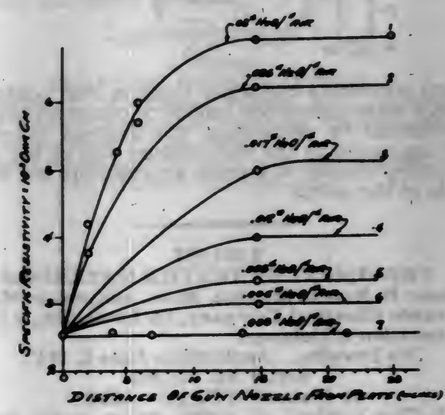
zinc sulphide and caesium iodide being in the ratio 100 to 20.

2,651,585

PRODUCTION OF ELECTROCONDUCTIVE ARTICLES

William O. Lytle and Albert E. Junge, New Kensington, Pa., assignors to Pittsburgh Plate Glass Company

Application June 25, 1949, Serial No. 101,452
2 Claims. (Cl. 117—54)



1. A method of providing glass with a transparent electroconductive coating during periods when the water content of atmospheric air exceeds 0.01 pound per pound of air, which comprises introducing an aqueous mixture of stannic chloride and water, containing 5 to 60 percent by weight of water into an air stream which is free from suspended drops of water, and contacting the stream with glass heated above 400° F. but below the temperature at which the glass fuses, while maintaining the water content of the atmosphere in which said contact is effected, at 0.00025 to 0.01 pound per pound of air.

2,651,586

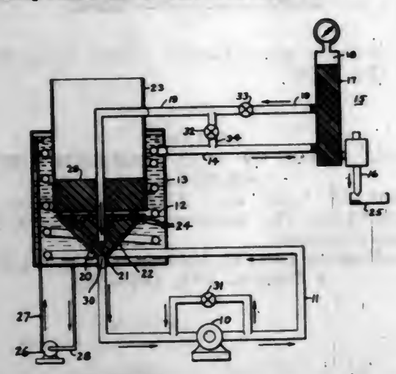
CONSTANT VISCOSITY METHOD OF LINING CONTAINER CLOSURES

Henry E. Cooper, Waltham, and Dunbar L. Shanklin, Winchester, Mass., assignors to Dewey and Almy Chemical Company, Cambridge, Mass., a corporation of Massachusetts

Application March 1, 1949, Serial No. 79,046
5 Claims. (Cl. 117—120)

1. The process of lining container closures with controlled uniform amounts of a heated, paste-type lining compound, which is characterized by a large change in viscosity with a small change in temperature, which includes maintaining a large volume of the compound at a substantially uniform viscosity by recirculating the compound through a conduit system by means of a positive displacement pump, adjusting the speed and the delivery pressure of the pump to secure the release of the heat equivalent of the work performed on the compound as sensible heat within the compound in such

amount and at such a rate that the compound being circulated is maintained at a substantially uniform elevated temperature, intermittently discharging a minor fraction only of said circulating compound at a substantially uniform rate



onto successive container closures and continuously maintaining the volume of compound being circulated by entraining the makeup quantity of compound in the low pressure side of the circulating stream at a point approaching the inlet side of the pump.

2,651,587

TREATMENT OF TEXTILE MATERIALS

Elmer H. Rossin, Melrose, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application June 2, 1947, Serial No. 751,995

10 Claims. (Cl. 117—138.8)

1. The method of sizing nylon warp yarns which comprises treating said yarns with a composition consisting essentially of an aqueous solution of a salt of the copolymer of a substance selected from the group consisting of styrene and substituted styrenes and an alkyl ester of maleic acid, in which the alkyl group contains from 1 to 4 carbon atoms, said salt being selected from the group consisting of sodium and potassium salts, and then drying said yarns.

2,651,588

MULTIPLE LAYER STAY TAPE

Donald S. Bruce, Paul W. Herrlinger, and Howard L. Heise, Troy, Ohio, assignors to The Gummed Products Company, Troy, Ohio, a corporation of Ohio

Application August 15, 1950, Serial No. 179,622

1 Claim. (Cl. 154—53.5)



A continuous strip of multiple layer stay tape for application to the edges of adjacent panels of box-board cartons to form joints, comprising a plurality of plies of kraft paper of about 34 to about 60 pounds basis weight, said plies being of equal width and superposed one on the other with their adjacent longitudinal edges defining a common plane, marginal edge portions only of said plies being permanently secured to each other by laterally spaced stripes of adhesive extending lengthwise of the tape, the areas of said plies lying between said marginal edge portions being free of adhesive and non-adhering and capable of being flexed with respect to each other, said plies being disposed throughout the area thereof in substantially flat, juxtaposed face to face relation, whereby said tape may be continuously wound in a tight roll on an axis transverse to the length of the tape.

2,651,589

PROCESS FOR FORMING CURED GLYCIDYL ETHER RESINOUS BONDS BETWEEN TWO SOLID SURFACES

Edward C. Shokal, Walnut Creek, Herbert A. Newey, Richmond, and Theodore F. Bradley, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application October 25, 1949, Serial No. 123,528

21 Claims. (Cl. 154—140)

1. A composition of matter comprising a glycidyl ether having a 1,2-epoxy equivalency greater than one in admixture with about 50% to 150% of an equal weight of a preformed reaction product of a glycidyl ether having a 1,2-epoxy equivalency greater than one with at least 90% of one molecular weight of hardening agent for each epoxy group of the ether initially present in the reaction mixture, said hardening agent containing a plurality of neutralizable hydrogen atoms and having a dissociation constant in 0.01 N aqueous solution at 20° C. greater than 10^{-6} and said glycidyl ethers being free of other functional groups than epoxy groups and alcoholic hydroxyl groups.

16. A process which comprises coating a solid surface with a glycidyl ether of a dihydric phenol having a 1,2-epoxy equivalency greater than one and also coating another solid surface with a preformed reaction product of a glycidyl ether of a dihydric phenol having a 1,2-epoxy equivalency greater than one with at least 90% of one molecular weight of hardening agent for each epoxy group of the ether initially present in the reaction mixture, said hardening agent containing a plurality of neutralizable hydrogen atoms and having a dissociation constant in 0.01 N aqueous solution at 20° C. greater than 10^{-6}, said glycidyl ethers being free of other functional groups than epoxy groups and alcoholic hydroxyl groups, bringing the two coated surfaces into contact with one another, and heating while in contact for a time sufficient to form a cured resinous bond between the surfaces.

2,651,590

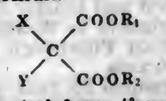
FUMIGANT COMPOSITION AND PROCESS

Kenneth S. Karsten, Westport, Conn., assignor to R. T. Vanderbilt Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application April 13, 1951, Serial No. 220,965

4 Claims. (Cl. 167—22)

1. A pesticidal composition of matter comprising as an active ingredient at least one compound of the formula



wherein X is selected from the group consisting of bromine and chlorine, wherein Y is selected from the group consisting of hydrogen, bromine and chlorine and wherein R_1 and R_2 are alkyl radicals having from 1 to 4 carbon atoms and a solid adsorbent carrier therefor.

2,651,591

ANTICOAGULANT RODENTICIDE

Geza S. Delmar, Baie d'Urfe, Quebec, and Ernest Neil Macallum, Lachine, Quebec, Canada, assignors to Delmar Chemicals Limited, Lachine, Quebec, Canada, a corporation of Canada

No Drawing. Application May 7, 1952, Serial No. 286,624

2 Claims. (Cl. 167—46)

1. As a new product, 3-(alpha-(p-acetamino)-phenyl-beta-acetylethyl)-4-hydroxycoumarin.

2. As a rodenticide composition, a food product as an edible carrier and as a toxic ingredient at least 0.025% of 3 - (alpha - (p - acetamino)-phenyl-beta-acetylethyl)-4-hydroxycoumarin.

2,651,592

ENZYMATIC PROCESS FOR PRODUCING GLUCONIC ACID

Dwight L. Baker, Park Forest, Ill., assignor to Ben L. Sarett, Chicago, Ill.

No Drawing. Application August 15, 1950, Serial No. 179,651

6 Claims. (Cl. 195—36)

1. A process for converting glucose to a gluconic acid compound which comprises adding to an aqueous solution of glucose a substantially nonviable enzyme system having catalase and glucose oxidase activity and a quantity of hydrogen peroxide in stoichiometric excess of that required to oxidize substantially all of said glucose whereby said glucose is oxidized to said acid compound.

2,651,593

CONCENTRATION OF AMYLOLYTIC ENZYMES

Kenneth J. Goering, Beneman, Mont., and Victor C. Bruski, Linden, N. J., assignors to Research Corporation, New York, N. Y., a corporation of New York

No Drawing. Application September 5, 1951, Serial No. 245,271

8 Claims. (Cl. 195—66)

1. A method of concentrating alpha amylase produced by the submerged culture of fungi which comprises contacting the liquid portion of the culture medium with a minor portion of the mycelium of the fungus at a pH of about 5 whereby to adsorb alpha amylase from the liquor upon the mycelium, separating the mycelium from the liquid, and extracting the adsorbed alpha amylase from the mycelium with an aqueous medium at a pH of about 8.5.

2,651,594

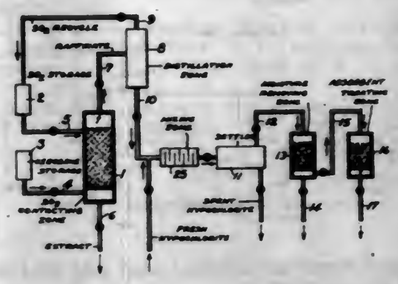
KEROSENE FINISHING PROCESS

Leo J. Blatz, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application May 26, 1949, Serial No. 95,491

4 Claims. (Cl. 196—14.12)

1. The process for providing a kerosene of satisfactory burning quality derived from a Middle East crude oil having a sulfur content of 1.4% or greater, comprising the steps of contacting said kerosene in liquid phase with about 25% to 100% by volume of sulfur dioxide at a temperature of about −40 to +25° F., and a pressure of about 0 to 100 p. s. i. to obtain a raffinate product characterized by a wick char value greater than about 10, and thereafter contacting the said raffinate



product with about 0.1 to 4 pounds of a solid adsorbent per barrel of oil.

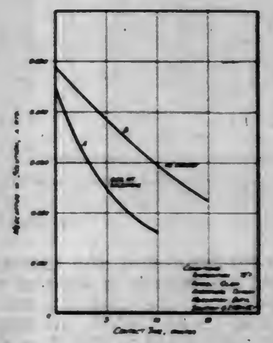
2,651,595

TREATING HYDROCARBONS

Benjamin L. Moulthrop, Pitman, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

Application May 20, 1950, Serial No. 163,320

6 Claims. (Cl. 196—29)



1. A method of converting a sulfhydryl to a sulfide which comprises contacting a sulfhydryl with an oxygenated chelate of a metal selected from the group consisting of iron, cobalt, nickel and palladium in the presence of aqueous alkaline solution of an alkali metal hydroxide.

2. A method of sweetening petroleum fractions which comprises adding an oxygenated chelate of a metal selected from the group consisting of iron, cobalt, nickel and palladium to a petroleum fraction and contacting said petroleum fraction containing said oxygenated chelate with an aqueous alkaline solution of an alkali metal hydroxide.

2,651,596

REFINING OF DISTILLATES WITH SULFURIC ACID AND SO_2Cl_2

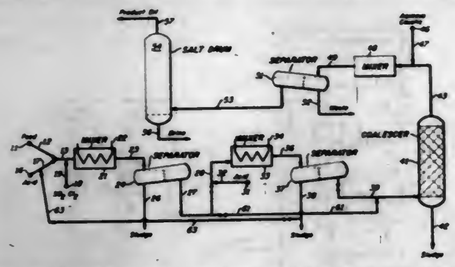
Jack H. Krause, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application April 4, 1952, Serial No. 280,683

17 Claims. (Cl. 196—31)

1. A process for refining a mercaptan-containing virgin hydrocarbon distillate which comprises contacting said distillate with an effective amount of sulfuric acid in the presence of an effective

amount of sulfuryl chloride, separating treated oil from the acid sludge formed in said contacting, and removing residual acid and acid sludge from said treated oil.

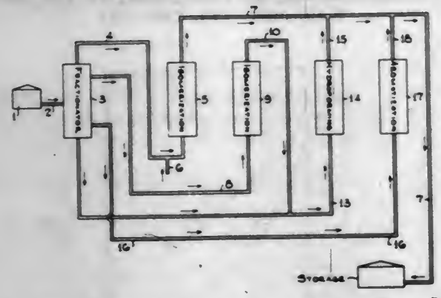


2,651,597

PROCESS FOR IMPROVING THE OCTANE NUMBER OF LIGHT NAPHTHAS

Eugene S. Corner, Maplewood, and Fred B. Fischl, Rahway, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application January 18, 1950, Serial No. 139,208
3 Claims. (Cl. 196—50)



1. Process for improving the anti-knock value of light virgin naphtha as motor fuel which comprises fractionating the naphtha into a hexane fraction boiling up to 158° F., an alkylcyclopentane fraction boiling 158 to 200° F., a normal heptane fraction boiling 200 to 211° F., and a heavy naphtha fraction boiling above 211° F., isomerizing the hexane fraction, isomerizing the alkylcyclopentane fraction, combining the isomerized alkylcyclopentane fraction with the heavy naphtha fraction, hydroforming the combined fraction, aromatizing the normal heptane fraction and combining the isomerized normal hexane fraction, and the aromatized and hydroformed fractions as the final improved motor fuel.

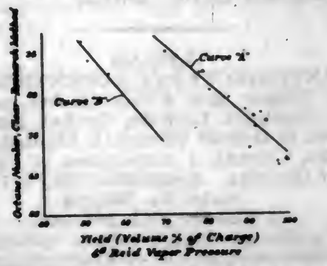
2,651,598

REFORMING PROCESS AND CATALYST

Frank G. Ciapetta, Llanerch, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

Application March 17, 1951, Serial No. 216,193
6 Claims. (Cl. 196—50)

1. A process for reforming a gasoline fraction to increase the anti-knock value thereof which comprises admixing hydrogen with said fraction and passing said admixture at reforming conditions including a temperature within the range of 600° F. to 1000° F. and a pressure of from 100 to 1000 p. s. i. over a catalyst consisting essentially of a cracking component, 0.01 to 2.5 weight percent of a metal from the group consisting of platinum and palladium, and 0.5 to 4.0 weight percent of a chemically combined alkali metal, said cracking component comprising silica and at least one metal oxide from the group consisting of alumina, magnesia, thoria, and zirconia.



2,651,599

TREATING CONVERSION CATALYSTS

Rhea N. Watts and Julius P. Bilisoly, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application September 8, 1949, Serial No. 114,683
5 Claims. (Cl. 196—52)

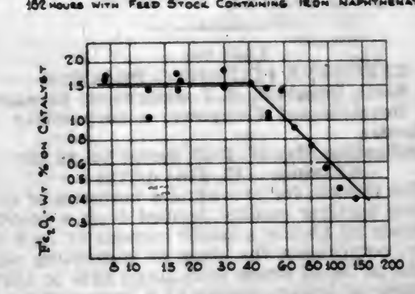
1. In a process for reactivating a circulating cracking catalyst consisting essentially of a synthetic composite selected from the group consisting of silica-alumina, silica-magnesia and silica-magnesia-alumina which has been subjected to repeated regenerations following conversion operations without removal from the system and which has lost activity and selectivity, the improvement which comprises treating the regenerated catalyst following the regeneration step with a gas mixture consisting essentially of steam containing admixed therewith about 0.01 to 10 weight percent of hydrogen fluoride at a temperature of at least 850° F., the total amount of hydrogen fluoride so used being in the ratio between about 0.01 to 10 pounds per 100 pounds of catalyst per 24 hours, and then using the resulting revivified and regenerated catalyst in the conversion step without further treating the catalyst to remove hydrofluoric acid gas therefrom.

2,651,600

METHOD OF REDUCING CONTAMINANTS ON FINELY DIVIDED CATALYST

Wilfred O. Taff and Robert L. Hardy, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application February 21, 1950, Serial No. 145,406
4 Claims. (Cl. 196—52)



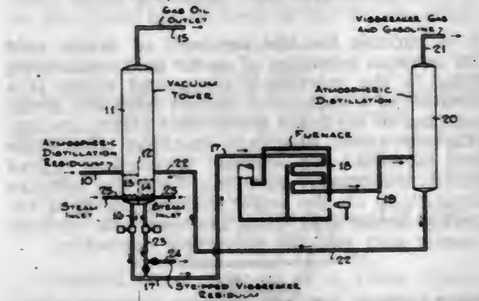
1. In a continuous process for the conversion of hydrocarbons wherein conversion is obtained in the presence of finely divided fluidized catalyst having a gel structure, the catalyst continuously circulating through a reaction zone and a regeneration zone and wherein there is a gradual accumulation of non-combustible contaminants on the catalyst as the process continues, the catalyst above 40 microns in diameter acquiring a surface coating of non-combustible contaminants and having a central core free of the contaminants, the catalyst below 40 microns in diameter becoming completely impregnated with the contaminants, the steps which comprise adding to the circuit fresh catalyst in the form of a coarse fraction of a particle size above about 40 microns in diameter, subjecting the catalyst in the circuit to accelerated attrition beyond the normal attrition in the circuit whereby fine particles below 40 microns in diameter are formed due to the scrapings of the coarse catalyst and a central core substantially free of contaminants is exposed, and continuously separating and discarding from the circulating catalyst the fine particles contained therein at a rate to maintain in the circuit about 10 to 20% of the fine particles so as to maintain the fluidity of the catalyst, whereby a high level of catalyst activity is maintained within the circuit.

2,651,601

PREPARATION OF FEED MATERIAL FOR THE CONVERSION OF HYDROCARBONS

Wilfred O. Taff, Cranford, and John Weikart, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application January 3, 1949, Serial No. 68,938
2 Claims. (Cl. 196—73)



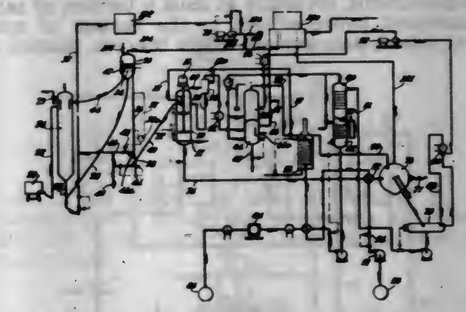
1. A process for the production of high quality feed for catalytic cracking from residual stocks which comprises subjecting a petroleum crude oil to distillation at atmospheric pressure to separate light constituents and a gas oil fraction boiling from about 430° F. to 800–900° F. forming higher boiling virgin residual stock constituting about 20–30% of the original petroleum crude oil, passing said virgin residual stock to a primary stripping zone maintained at a pressure substantially below atmospheric pressure in order to remove further quantities of virgin gas oil therefrom, subjecting the stripped virgin residual stock to visbreaking, subjecting the reaction product from the visbreaking step to atmospheric distillation to separate visbreaker gas and gasoline from visbreaker residue, passing the visbreaker residue to a separate compartment of the primary stripping zone in order to strip visbreaker gas oil from the visbreaker residue, combining the visbreaker gas oil with the gas oil stripped from said virgin residual stock, recycling a part of the stripped visbreaker residue to the visbreaking step, and removing a sufficient amount of the stripped visbreaker residue from the system to prevent excessive accumulation of ash and carbon residues therein.

2,651,602

PROCESS AND APPARATUS FOR CLAY CONTACTING IN THE REFINING OF LUBRICATING OIL

Hyman R. Davis, Jackson Heights, and Charles F. Montross, New York, N. Y., assignors to The Lummus Company, New York, N. Y., a corporation of Delaware

Application November 4, 1948, Serial No. 58,326
6 Claims. (Cl. 196—147)



1. In the process of continuously refining lubricating oil by contacting with clay wherein quantities of clay precisely measured with respect to the oil are delivered to a contact tank at controllable rates, the improvement which comprises transferring the clay from an initial storage bin to the contact tank in separate steps, the first of which consists in pneumatically removing an excess of clay not to exceed 150% of that required for the contacting operation to an intermediate elevated chamber, maintaining a predetermined clay level in said elevated chamber independent of the amount drawn off from the chamber, returning all clay above the predetermined level in said chamber to the storage bin, drawing off clay from said chamber through a substantially vertical conduit, aerating the clay in said conduit to establish a predetermined density therein, applying a gaseous medium to the lower end of said conduit to discharge clay therefrom and, through a connecting conduit into the contact tank, controlling the application of said gaseous medium by differential of pressure to maintain a uniform rate of flow, separately introducing clay free oil to the contact tank, and varying the discharge rate of the aerated clay into the connecting conduit in accordance with the refining treatment requirements of the oil introduced to the contact tank.

2,651,603

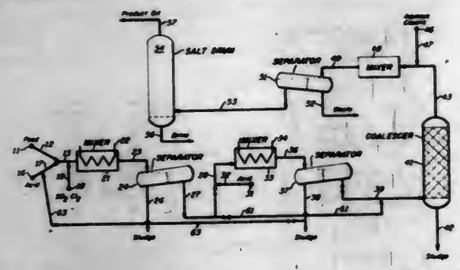
FRACTIONATION WITH SOLID ADSORBENTS

Homer Z. Martin, Cranford, and Warren K. Lewis, Jr., Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application May 29, 1951, Serial No. 228,884
5 Claims. (Cl. 196—147)

1. Process for separating hydrocarbon mixtures into two components which comprises introducing a hydrocarbon feed stock containing a plurality of components into the midsection of a first adsorption zone, introducing a solid adsorbent into the top of said adsorption zone, passing the feed stock counter-currently to said solid adsorbent, removing unadsorbed components from the top of said adsorption zone, removing solid adsorbent containing the preferentially adsorbed components from the bottom of said adsorption zone, passing the withdrawn solid adsorbent to the top of a stripping zone, introducing flue gas

amount of sulfuryl chloride, separating treated oil from the acid sludge formed in said contacting, and removing residual acid and acid sludge from said treated oil.

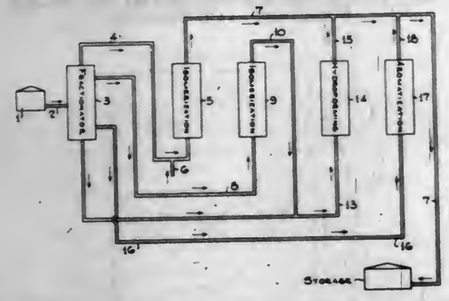


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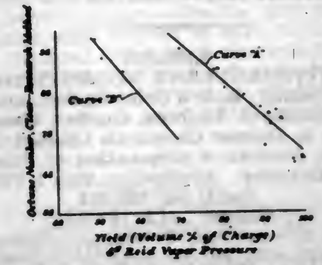
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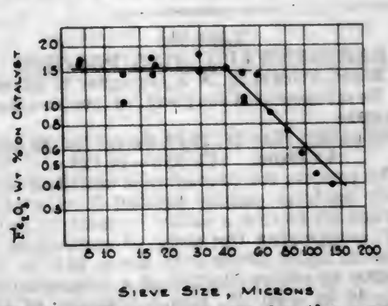
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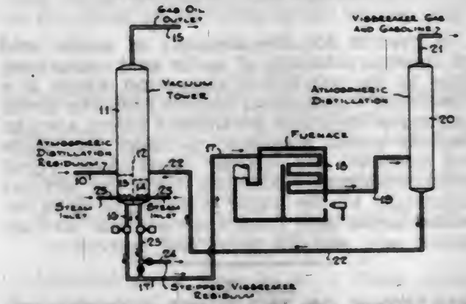
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2,651,601

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2 Claims. (Cl. 196—73)



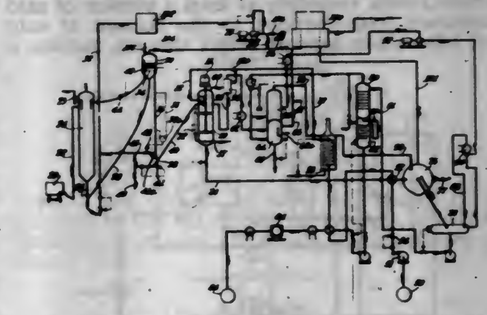
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Application November 4, 1948, Serial No. 58,326
6 Claims. (Cl. 196—147)



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2,651,603

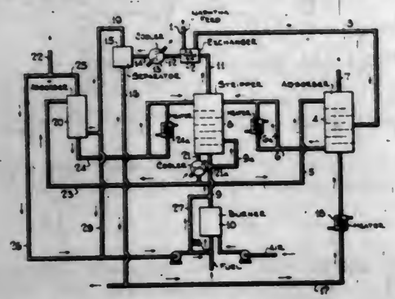
FRACTIONATION WITH SOLID ADSORBENTS

Homer Z. Martin, Cranford, and Warren K. Lewis, Jr., Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application May 29, 1951, Serial No. 228,884
5 Claims. (Cl. 196—147)

1. Process for separating hydrocarbon mixtures into two components which comprises introducing a hydrocarbon feed stock containing a plurality of components into the midsection of a first adsorption zone, introducing a solid adsorbent into the top of said adsorption zone, passing the feed stock counter-currently to said solid adsorbent, removing unadsorbed components from the top of said adsorption zone, removing solid adsorbent containing the preferentially adsorbed components from the bottom of said adsorption zone, passing the withdrawn solid adsorbent to the top of a stripping zone, introducing flue gas

into the bottom of said stripping zone, passing the solid adsorbent countercurrently to the flue gas whereby the preferentially adsorbed hydrocarbons are stripped from the solid adsorbent, recycling a first portion of the stripped adsorbent to the first adsorption zone, withdrawing the flue gas-hydrocarbon mixture from the top of said stripping zone, cooling said flue gas-hydrocarbon mixture to condense at least a portion of said hydrocarbons, removing the condensed hydrocarbons, recycling at least a portion of said condensed hydrocarbons to the bottom of said first adsorption zone as reflux therein, passing a



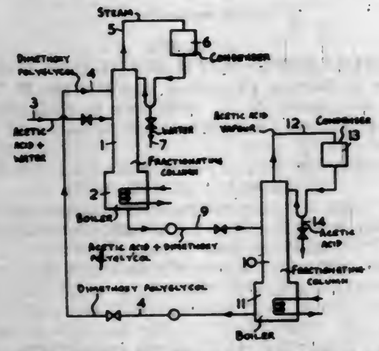
portion of said flue gas and uncondensed hydrocarbons to the bottom of a second adsorption zone, recycling the remaining portion of said flue gas and uncondensed hydrocarbons to the bottom of said stripping zone, introducing a second portion zone, introducing solid adsorbent to the top of said second adsorption zone, passing the flue gas hydrocarbon mixture countercurrently to said solid adsorbent whereby most of said hydrocarbons are adsorbed, recycling the solid adsorbent and adsorbed hydrocarbons to the top of said stripping zone, and recycling at least a portion of the flue gas from said second adsorption zone to the bottom of said stripping zone.

2,651,604

RECOVERY OF ACETIC ACID FROM AQUEOUS ACETIC ACID SOLUTIONS BY EXTRACTIVE DISTILLATION

George A. R. Hartley, Coventry, England, assignor to Courtaulds Limited, London, England, a British company

Application November 6, 1951, Serial No. 255,068
In Great Britain September 2, 1949
9 Claims. (Cl. 202—39.5)



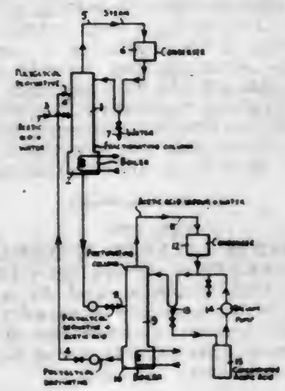
1. A process for the recovery of acetic acid from aqueous solutions of acetic acid which comprises adding a dimethoxy polyglycol chosen from the class consisting of dimethoxy tetraethylene glycol, dimethoxy triethylene glycol and dimethoxy, diethylene glycol to the solution, fractionally distilling from the mixture substantially all the water present and then recovering acetic acid from the residual mixture of acetic acid and dimethoxy polyglycol.

2,651,605

RECOVERY OF ACETIC ACID FROM AQUEOUS ACETIC ACID SOLUTIONS BY EXTRACTIVE DISTILLATION

George A. B. Hartley and Charles O. Haughton, Coventry, England, assignors to Courtaulds Limited, London, England, a British company

Application November 6, 1951, Serial No. 255,069
In Great Britain February 9, 1951
10 Claims. (Cl. 202—39.5)



1. A process for the recovery of acetic acid from aqueous solutions of acetic acid comprising adding to the solution a compound which is a derivative of a polyglycol chosen from the group consisting of methoxy triethylene glycol acetate, diethylene glycol diacetate, methoxy diethylene glycol acetate and ethoxy triethylene glycol acetate, fractionally distilling from the mixture substantially all the water present and then recovering acetic acid from the resultant mixture of acetic acid and the polyglycol derivative.

2,651,606

RESOLUTION OF MIXTURES COMPRISING N-METHYLANILINE AND N,N-DIMETHYLANILINE

Thomas J. Deahl, Orinda, and Fred H. Stross and Marion D. Taylor, Berkeley, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application October 29, 1951, Serial No. 253,752
6 Claims. (Cl. 202—42)

1. The process for separating N,N-dimethylaniline from mixtures containing N-methylaniline in admixture with N,N-dimethylaniline which comprises adding aniline to said mixture and distilling an azeotrope consisting essentially of aniline and N,N-dimethylaniline at a subatmospheric pressure from said mixture.

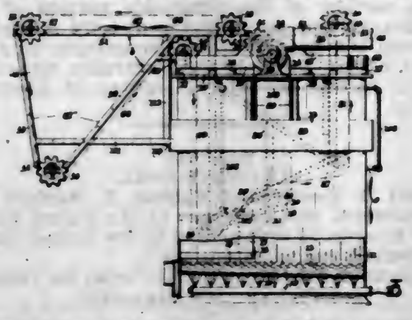
2,651,607

DEGREASING MACHINE OR APPARATUS

Stanley A. Harris, Glen Rock, N. J., assignor to Detrex Corporation, Detroit, Mich., a corporation of Michigan

Application November 17, 1948, Serial No. 60,582
5 Claims. (Cl. 202—168)

1. In degreasing apparatus having an enclosure with a sump at the bottom for liquid solvent and a zone thereabove in which vapor emanating from the solvent is constrained, and a driven endless conveyer chain trained about a system of sprockets arranged in a plane tilted somewhat to the vertical for passage downwardly from a loading station at the exterior through an opening in the top of the enclosure into the solvent in the sump and then upwardly and outwardly through another opening in the top of the enclosure; pins extending at right angles from the



chain at intervals whereon tubular articles to be cleaned are impaled at the loading station and retained on said pins due to the inclination of the chain; a nozzle within the enclosure behind the chain for spraying clean liquid solvent into the tubular articles upon emergence from the solvent bath in the sump; and a stationary guard within the enclosure for engaging the distal ends of the passing tubular articles to prevent them from being dislodged from the supporting pins on the chain by the force of the nozzle spray.

2,651,608

ELECTRODEPOSITION OF ALUMINUM FROM NONAQUEOUS SOLUTIONS

Abner Brenner, Chevy Chase, Md., and Dwight E. Couch, Washington, D. C., assignors to the United States of America as represented by the Secretary of Commerce

No Drawing. Application January 25, 1952, Serial No. 268,325
6 Claims. (Cl. 204—14)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A process of electroplating that comprises electrodepositing aluminum from a bath consisting of a mixture of an ether selected from the group consisting of ethyl ether, ethyl n-butyl ether, a mixture of ethyl and butyl ethers, anisole, phenetole, and di-phenyl ether; a metal hydride at 0.5 to 1 molar selected from the group consisting of lithium hydride, lithium aluminum hydride and aluminum hydride; and anhydrous aluminum chloride at from 1 to 4 molar.

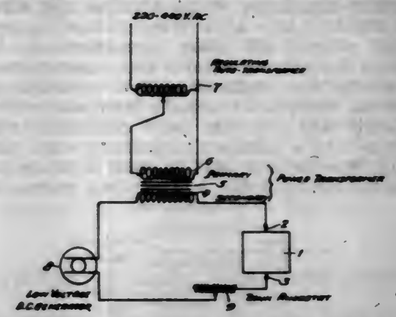
2,651,609

METHOD OF ELECTROPLATING COPPER

Allan E. Chester, Highland Park, Ill., assignor to Poor & Company, Chicago, Ill., a corporation of Delaware

Application July 17, 1950, Serial No. 174,243
2 Claims. (Cl. 204—52)

1. In a method of controlling the electrodeposition of copper from an acid copper sulfate plating bath onto an electrically conducting object of a type in which the copper would normally be deposited in greater concentrations in some areas than in others by a direct plating current; the step which comprises electrodepositing the copper by subjecting said object in an acid plating bath to a plating current having an asymmetric alternating wave form comprising an alternating current superimposed on a direct current in the



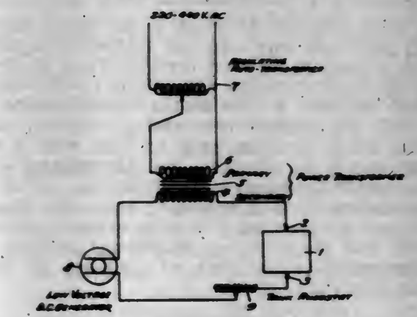
ratio of 2–4 volts R. M. S. to 2.5 volts D. C., regardless of the specific current values, at current densities from about 2 to about 15 amperes per square foot.

2,651,610

METHOD OF ELECTROPLATING ZINC

Allan E. Chester, Highland Park, Ill., assignor to Poor & Company, Chicago, Ill., a corporation of Delaware

Application July 17, 1950, Serial No. 174,242
2 Claims. (Cl. 204—55)



1. In a method of controlling the electrodeposition of zinc from an acid zinc sulphate plating bath onto an electrically conducting object of a type in which the zinc would normally be deposited in greater concentrations in some areas than in others by a direct plating current; the step which comprises electrodepositing the zinc by subjecting said object in an acid plating bath to a plating current having an asymmetric alternating wave form comprising an alternating current superimposed on a direct current in the ratio of 2–4 volts R. M. S. to 2.5 volts D. C., regardless of the specific current values, at current densities from about 2 to about 15 amperes per square foot.

2,651,611

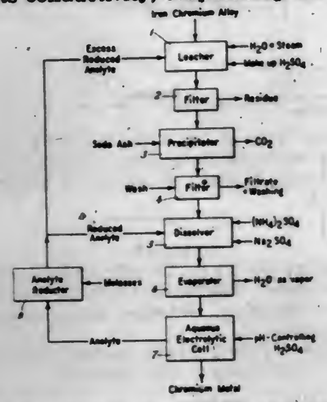
ELECTROWINNING OF CHROMIUM

Michael C. Carosella and John D. Mettler, Niagara Falls, N. Y., assignors to Union Carbide and Carbon Corporation, a corporation of New York

Application June 7, 1951, Serial No. 230,413
1 Claim. (Cl. 204—105)

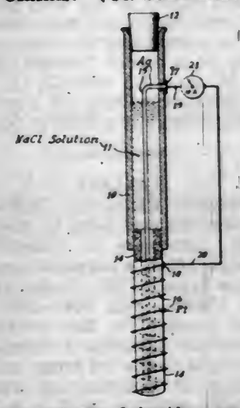
In a cyclic process for the electrowinning of metallic chromium utilizing a compartment cell and an electrolyte prepared from iron-chromium alloys, the steps of digesting an iron-chromium alloy with dilute sulfuric acid at a temperature of between approximately 60° C. and 105° C., separating the leach liquor from the residue,

adding said leach liquor under substantially non-oxidizing atmospheric conditions to an aqueous solution containing a base selected from the group consisting of the alkalies and alkaline earth metal bases at a temperature above 60° C. until a final pH below approximately 3.8 is obtained to yield a granular basic chromium sulfate precipitate, separating said granular basic chromium sulfate precipitate from said solution, dissolving said granular basic chromium sulfate precipitate in a solution of sulfuric acid, adding at least one neutral salt to such solution to increase its conductivity, evaporating excess water



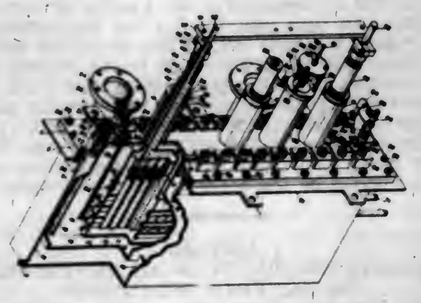
from such solution to form a cell feed, introducing said cell feed into the cathode compartment of a diaphragm electrolytic cell and electrolyzing to form metallic chromium at the cathode and to form in the anode compartment of such cell an anolyte containing sulfuric and chromic acids, treating said anolyte with a reducing agent to convert the chromium ions therein to the trivalent state, dissolving an additional portion of said granular basic chromium sulfate precipitate with a portion of said reduced anolyte, and leaching an additional portion of iron-chromium alloy with the excess of said reduced anolyte.

2,651,612
AMPEROMETRIC ANALYZER
John F. Haller, Niagara Falls, N. Y., assignor to Mathieson Chemical Corporation, a corporation of Virginia
Application February 4, 1948, Serial No. 6,189
3 Claims. (Cl. 204—195)



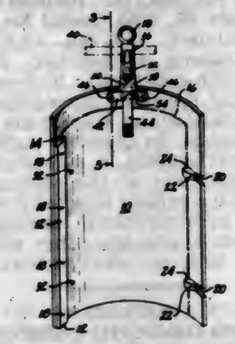
1. An instrument for detecting and measuring concentrations of oxidizing and reducing gases in gaseous mixtures which comprises an elongated hollow receptacle confining a reservoir of electrolyte, a transverse portion of which hollow receptacle is permeable with respect to the electrolyte, an electrode disposed within the hollow receptacle spaced from the inner walls thereof extending within the permeable portion of the receptacle and surrounded by the reservoir of electrolyte, a second electrode having the form of a wire wound in spaced turns about the outer surface of the permeable portion of the receptacle, and an ammeter directly connected between the two electrodes completing an electrical circuit through the electrodes and electrolyte having no external source of electrical energy.

2,651,613
FLUORINE CELL
Robert D. Fowler and William B. Burford III, Baltimore, Md., assignors to the United States of America as represented by the United States Atomic Energy Commission
Application February 21, 1947, Serial No. 730,100
5 Claims. (Cl. 204—247)



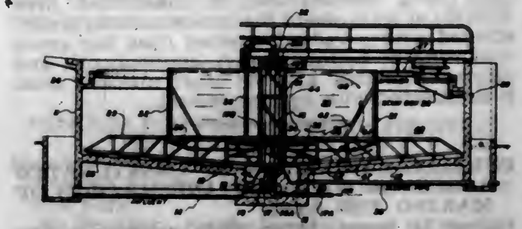
1. An electrolytic unit for the manufacture of fluorine which comprises a box shaped cathode for containing the electrolyte, a carbon anode dipping into the electrolyte contained in said cathode, electrical connections for connecting a source of direct current electricity to said cathode and said anode, a barrier located beneath said anode and above the bottom of said cathode for catching and thereby preventing any broken piece of said anode from setting up a short circuit within the cell, a skirt located between said anode and said cathode, said skirt having an upper closed portion which provides a gas tight closure for the space surrounding and immediately above the upper part of said anode and having an open ended bottom dipping into said electrolyte to separate the fluorine liberated at the anode from the hydrogen liberated at the cathode, a fluorine outlet connected with the upper closed portion of said skirt, a head plate providing a gas tight closure covering said box shaped cathode, a hydrogen outlet connected with said head plate, condensers for liquefying and separating hydrogen fluoride from the liberated fluorine and hydrogen by which it has been entrained, a heater located in heat exchange relationship with the lines which convey the liquid hydrogen fluoride away from said condensers for vaporizing the hydrogen fluoride which has thus been liquefied and separated, inlets connected with the upper closed portion of said skirt and with said head plate, and return pipes for returning this vaporized hydrogen fluoride to the cell above the electrolyte thru said inlets.

2,651,614
ELECTROTYPER'S CASE
George W. Bungay, New York, N. Y., assignor to Electrographic Corporation, New York, N. Y., a corporation of Delaware
Application December 16, 1949, Serial No. 133,345
3 Claims. (Cl. 204—297)



1. A curved electrotyper's case comprising a supporting member having a cylindrical concave face, a curved top edge lying substantially in a plane transverse to the axis of curvature of said face, and side edges, said supporting member provided with spaced parallel slots along one side edge thereof and in transverse relationship to the side edge of said supporting member, a hook fastened adjacent said curved top edge of said supporting member for supporting and electrically connecting the case in an upright position, rigidly fixed holding means secured along one side edge of said supporting member and parallel to the cylindrical axis for engaging one of the straight edges of a flexible mold on the concave face of the supporting member, releasable, resiliently urged hooks projecting through said slots in said supporting member for engaging the other and parallel straight edge of the mold at spaced alined points for securing the mold on said member and for conforming the mold to the concave face, and tension members on the convex side of the supporting member for urging said hooks into tight engagement with one of the side edges of a flexible mold.

2,651,615
CLARIFICATION APPARATUS
Earl M. Kelly, Hillsborough, and Arthur M. Kivari, Los Angeles, Calif., assignors to Process Engineers Incorporated, San Francisco, Calif., a corporation of California
Application November 9, 1950, Serial No. 194,752
11 Claims. (Cl. 210—3)



1. In clarification apparatus comprising a tank for containing a pool of liquid to be clarified and in which sludge settles to the bottom, a sludge outlet in the bottom of the tank, and means for moving the sludge along the bottom of the tank to the outlet, the combination which comprises an airlift in the tank projecting upward near the outlet, means in the tank for admitting sludge into the airlift from near the outlet, means for introducing incoming feed to be clarified into the air-lifted sludge prior to its discharge into the tank, means for discharging the resulting aerated sludge and feed into an upper portion of the tank near the upper end of the airlift, a roof disposed around the airlift just above the point at which the sludge is introduced into the airlift to prevent the material being drawn into the airlift from becoming diluted, and means for aerating the tank contents outside the airlift disposed in the tank above the roof.

2,651,616
LITHIUM HYDROXY STEARATE GREASE COMPOSITIONS
John Bryant Matthews, Douglas Evans, John Fletcher Hutton, and John Owen Cliffe, Cheshire, England, assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware
No Drawing. Application April 16, 1951, Serial No. 221,324. In Great Britain April 20, 1950
12 Claims. (Cl. 252—41)

1. A method of manufacturing a lubricating grease which comprises heating an oleaginous vehicle mixed with a grease forming amount of alkali metal aliphatic monocarboxylic acid soaps containing at least 35% lithium hydroxy fatty acid soaps until a homogeneous composition is formed, cooling said composition to a temperature between about 110° C. and about 170° C. at a rate between 1° C. and 3° C. per minute, isothermally gelling the composition between said temperatures and subsequently cooling the grease.

2,651,617
TREATMENT OF ALUMINA CONTAINING CATALYTIC COMPOSITES
Louis Schmerling, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application April 16, 1949, Serial No. 88,053
9 Claims. (Cl. 252—413)

1. A process for improving the physical and catalytic properties of an alumina-containing mineral composite which comprises heating said composite with an acidic reagent containing a major proportion of an organic acid having a dissociation constant of less than 1×10^{-3} at a temperature of from about 150° to about 300° C. under sufficient pressure to maintain said reagent in substantially liquid phase, said organic acid being of a concentration and amount sufficient to convert a substantial portion, at least, of the alumina into a basic aluminum salt of said acid, and thereafter treating the resulting composite with water at a temperature above 100° C. under sufficient pressure to maintain the water in substantially liquid phase whereby to hydrolyze said aluminum salt.

2,651,618
STABILIZED TOUGHENED LATEX COMPOSITIONS
Alan Montague Hall and Ronald Woolman, Leicester, England, assignors to B. B. Chemical Co., Boston, Mass., a corporation of Massachusetts
No Drawing. Application April 11, 1950, Serial No. 155,349. In Great Britain April 30, 1949
6 Claims. (Cl. 260—3)

1. A latex composition comprising a mixture of a liquid dispersion of a rubber toughening

agent from the group consisting of phenol aldehyde resins, cellulose esters and cellulose ethers, said dispersion containing a polar organic solvent and an aqueous dispersion wherein the dispersed phase comprises natural rubber individual particles of which have precipitated thereon a casein-urea material comprising at least one-half part by weight of casein to one part by weight of urea together with formaldehyde, at least 1½ parts combined weight of casein and urea being associated with 100 parts by weight or rubber solids in said dispersion.

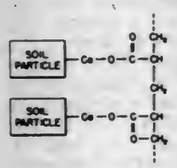
2,651,619

STABILIZATION OF SOILS

Victor F. B. de Mello, Sao Paulo, Brazil, and Ernst A. Hauser, Brookline, and Thomas W. Lambe, Cambridge, Mass., assignors to Research Corporation, New York, N. Y., a corporation of New York

Application January 25, 1951, Serial No. 207,723

18 Claims. (Cl. 260—41)



1. A method of forming a stabilized structure composed essentially of natural soil and a stabilizer therefor, which consists essentially of admixing with the natural soil a monomeric water soluble acrylate of a polyvalent metal, and a reduction-oxidation catalyst, forming the mixture into the desired structural form, and thereafter polymerizing the monomeric acrylate in the presence of sufficient moisture to at least partially ionize said acrylate and said catalyst, the polymerization being carried out at atmospheric temperature and pressure, to produce a stable soil-polymer-water structure in said desired form.

2,651,620

STABILIZED ORGANIC COMPOSITIONS

Eugene F. Hill, Detroit, and David O. De Pree, Birmingham, Mich., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 9, 1950, Serial No. 200,116

8 Claims. (Cl. 260—45.9)

1. An elastomeric formulation containing a rubber-like olefin-containing hydrocarbon polymeric elastomer normally susceptible to atmospheric deterioration and containing as an antioxidant ingredient, in quantity sufficient to inhibit such deterioration, a member selected from the group consisting of substituted ureas and thioureas wherein at least one of the nitrogen atoms is substituted with a radical selected from the group consisting of hydroxyphenyl, aminophenyl, and alkylaminophenyl, and the other nitrogen atom is substituted with a radical selected from the group consisting of alkyl and aryl.

2,651,621

STABILIZED ORGANIC COMPOSITIONS

Eugene F. Hill, Birmingham, and David O. De Pree, Royal Oak, Mich., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Original application December 9, 1950, Serial No. 200,116. Divided and this application July 27, 1953, Serial No. 370,101

4 Claims. (Cl. 260—45.9)

1. An elastomeric formulation containing a rubber-like olefin-containing hydrocarbon polymeric elastomer normally susceptible to atmospheric deterioration and containing as an antioxidant ingredient, in quantity sufficient to inhibit such deterioration, a substituted thiourea wherein at least one of the nitrogen atoms is substituted with a radical selected from the group consisting of hydroxyphenyl, aminophenyl, and alkylaminophenyl, and the other nitrogen atom is substituted with an alkyl radical.

2,651,622

STABILIZED ORGANIC COMPOSITIONS

Eugene F. Hill, Birmingham, and David O. De Pree, Royal Oak, Mich., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Original application December 9, 1950, Serial No. 200,116. Divided and this application July 27, 1953, Serial No. 370,102

4 Claims. (Cl. 260—45.9)

1. An elastomeric formulation containing a rubber-like olefin-containing hydrocarbon polymeric elastomer normally susceptible to atmospheric deterioration and containing as an antioxidant ingredient, in quantity sufficient to inhibit such deterioration, substituted urea wherein at least one of the nitrogen atoms is substituted with a radical selected from the group consisting of hydroxyphenyl, aminophenyl, and alkylaminophenyl, and the other nitrogen atom is substituted with an alkyl radical.

2,651,623

STABILIZED ORGANIC COMPOSITIONS

Eugene F. Hill, Birmingham, and David O. De Pree, Royal Oak, Mich., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Original application December 9, 1950, Serial No. 200,116. Divided and this application July 27, 1953, Serial No. 370,103

5 Claims. (Cl. 260—45.9)

1. An elastomeric formulation containing a rubber-like olefin-containing hydrocarbon polymeric elastomer normally susceptible to atmospheric deterioration and containing as an antioxidant ingredient, in quantity sufficient to inhibit such deterioration, a substituted urea wherein at least one of the nitrogen atoms is substituted with a radical selected from the group consisting of hydroxyphenyl, aminophenyl, and alkylaminophenyl, and the other nitrogen atom is substituted with an aryl radical.

2,651,624

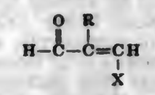
CURABLE COMPOUNDS OF UNSATURATED ALDEHYDE POLYMERS AND METHOD OF MAKING THE SAME

Gilbert H. Swart, Akron, Ohio, assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio

No Drawing. Application August 19, 1949, Serial No. 111,335

7 Claims. (Cl. 260—67.5)

7. In a method of curing a mass of plastic polymer of a monomeric material having the general formula



where R is alkyl and X is selected from the group consisting of hydrogen and alkyl, which polymer contains in combined form at least 5 per cent of compounds within the above general formula, the steps which comprise incorporating in said polymer hexamethylene tetramine and thereafter heating the mixture at elevated temperatures sufficient to liberate active methylene groups and a nitrogenous base from said hexamethylene tetramine and for a sufficient time to convert said polymer from the plastic to the elastic state.

2,651,625

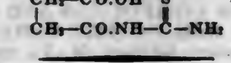
METHOD OF VULCANIZING RUBBER AND PRODUCT THEREOF

Richard O. Zerbe, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application November 7, 1951, Serial No. 255,319

6 Claims. (Cl. 260—79.5)

6. The vulcanized rubber product obtained by heating a rubber and sulfur in the presence of a thiazole accelerator and 0.2%–2.0% on the weight of the rubber of a succinamic acid of the structure



2,651,626

VINYL HALIDE-VINYLIDENE HALIDE-ACRYLIC ESTER TRIPOLYMERS

Willem Leendert Johannes de Nie, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application July 14, 1947, Serial No. 760,926. In the Netherlands March 23, 1944

Section 1, Public Law 690, August 8, 1946

Patent expires March 23, 1964

15 Claims. (Cl. 260—80.5)

1. A process comprising heating 95% to 80% by weight of a mixture of vinyl chloride and vinylidene chloride and 5% to 20% by weight of methyl methacrylate in an aqueous emulsion in the presence of a peroxide catalyst at a temperature between 15° C. and 100° C., the ratio of the vinyl chloride to vinylidene chloride in the said mixture being between 5 : 95 and 95 : 5.

2,651,627

PROCESS FOR POLYMERIZING PHENYLTRIFLUOROETHYLENE

Maurice Prober, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application February 8, 1950, Serial No. 143,153

1 Claim. (Cl. 260—91.5)

The method which comprises heating phenyltrifluoroethylene with a small amount of benzoyl peroxide for about 72 hours at a temperature of from about 70 to 75° C., precipitating the formed polymer and washing it with ethyl alcohol to obtain polyphenyltrifluoroethylene having a softening point of about 185° to 195° C.

2,651,628

PROCESS FOR ALKYLATING POLYSTYRENE

Lester Marshall Welch, Madison, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application September 26, 1950, Serial No. 186,917

4 Claims. (Cl. 260—92.5)

1. A process for the preparation of lubricant additives having the desirable characteristics of depressing the pour point of waxy mineral lubricating oils with which they are blended which comprises dissolving polystyrene of a molecular weight within a range of from 25,000 to 45,000 in a non-reactive polar solvent selected from the class consisting of tetrachloroethylene, o-dichlorobenzene, carbon disulfide, p-dichlorobenzene, chlorobenzene, and nitrobenzene, adding thereto Friedel-Crafts catalyst, slowly adding to the mixture sufficient of an aliphatic monoolefin containing from 16 to 20 carbon atoms in a straight chain to alkylate said polystyrene to a degree within the range of from 75% to 100%, maintaining the reaction temperature between 30° and 75° F. for a period of time sufficient to form a product having a molecular weight within a range of from 6,000 to 18,000 Staudinger, and recovering the desired final product therefrom.

2,651,629

CELLULOSE ESTERS

Blanche B. White, Summit, and Elisabeth Barabash, New Providence, N. J., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application July 1, 1949, Serial No. 102,716

3 Claims. (Cl. 260—225)

1. Process for the production of cellulose acetate-stearate, which comprises pretreating cellulose with a mixture of glacial acetic acid and sulfuric acid, reacting each mol of the pretreated cellulose with an esterification mixture comprising 1 to 2 mols of acetic anhydride, 0.4 to 2.0 mols of stearic anhydride, sulfuric acid and a water-immiscible solvent for the cellulose acetate-stearate, adding from 2 to 3 mols of additional acetic anhydride to the reaction mixture during the reaction, allowing the esterification reaction to proceed until the esterification reaction mixture is clear, and then precipitating the cellulose acetate-stearate formed from solution.

2,651,630

MERCAPTO AZINE DERIVATIVES

Paul M. Downey, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 26, 1951, Serial No. 253,473

11 Claims. (Cl. 260—243)

1. As a new composition of matter a compound of the structure $R—S—(R_1O)_nH$ where R is selected from a group consisting of 2-meta-thiazine and 2-meta-oxazine radicals containing at least 4 but less than 14 carbon atoms and hydrogen in addition to the hetero atoms, R_1 is a short chain alkyl group and n is an integer at least 3 but not more than 30.

2,651,631

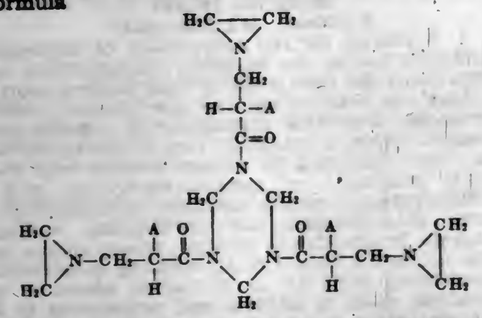
ETHYLENE IMINE-ACRYLYL TRIAZINE REACTION PRODUCTS

Ernst Zerner and Mark W. Pollock, New York, N. Y., assignors to Sun Chemical Corporation, Long Island City, N. Y., a corporation of Delaware

No Drawing. Application October 16, 1951, Serial No. 251,650

4 Claims. (Cl. 260—248)

1. As a new product, a compound of the formula



where A is selected from the group consisting of hydrogen, halogen and lower alkyl radicals.

2,651,632

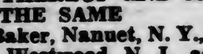
BETA - KETOALKYL - QUINAZOLONES AND ACID SALTS THEREOF AND METHODS OF MAKING THE SAME

Bernard Randall Baker, Nanuet, N. Y., and Merle Vernon Querry, Westwood, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

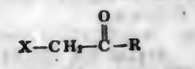
No Drawing. Application January 10, 1951, Serial No. 205,421

25 Claims. (Cl. 260—251)

1. Compounds selected from the group consisting of quinazolones represented by the formula:



in which Q represents a 4-quinazolone nucleus having the beta-keto substituent in the 3 position, and R represents an organic radical attached to the carbonyl group by a carbon to carbon linkage, said organic radical being selected from the group consisting of monocyclic aromatic hydrocarbon radicals, monocyclic heterocyclic radicals containing a single ring nitrogen atom in a 6 membered ring as the only heterocyclic atom, monocyclic heterocyclic radicals containing a single ring nitrogen atom in a 5 membered ring as the only heterocyclic atom, lower alkyl radicals, and substituted lower alkyl radicals having at least one substituent selected from the group consisting of amino groups, acylated amino groups, lower alkyl substituted amino groups, monocyclic heterocyclic radicals containing a single ring nitrogen atom in a 5 membered ring as the only heterocyclic atom, and monocyclic heterocyclic radicals containing a single ring oxygen atom in a 5 membered ring as the only heterocyclic atom; and acid addition salts thereof; which comprises contacting, under reactive conditions, a salt, selected from the group consisting of alkali metal salts, alkaline earth metal salts and quaternary ammonium salts, of a 4-quinazolone with a substituted methyl ketone of the formula:



where X represents a member selected from the group consisting of halogen and sulfonic ester substituents and R is as previously defined.

2,651,633

QUINAZOLONE COMPOUNDS AND METHODS OF MAKING THE SAME

Bernard R. Baker, Nanuet, N. Y., and Merle V. Querry, Westwood, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application January 29, 1951, Serial No. 208,432

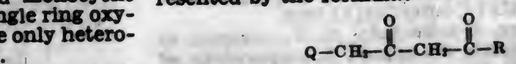
17 Claims. (Cl. 260—251)

1. Compounds selected from the group consisting of those represented by the formula:

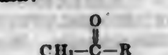


in which Q represents a 4-quinazolone nucleus having the beta,delta-diketo substituent in the 3 position, and R represents a member selected from the group consisting of aliphatic hydrocarbon radicals having not more than about five carbon atoms, monocyclic heterocyclic radicals containing a single ring oxygen as the only heterocyclic atom, and substituted alkyl radicals in which the alkyl group has not more than about five carbon atoms exclusive of substituents and having at least one substituent selected from the group consisting of halogen substituents, carbalkoxy groups, acylated amino groups, cyano groups, alkoxy groups, and aryloxy groups; and addition salts thereof with acids.

12. A method of preparing compounds represented by the formula:



in which Q represents a 4-quinazolone nucleus having the beta,delta-diketo substituent in the 3 position, and R represents a member selected from the group consisting of aliphatic hydrocarbon radicals having not more than about five carbon atoms, monocyclic heterocyclic radicals containing a single ring oxygen as the only heterocyclic atom, and substituted alkyl radicals in which the alkyl group has not more than about five carbon atoms exclusive of substituents and having at least one substituent selected from the group consisting of halogen substituents, carbalkoxy groups, acylated amino groups, cyano groups, lower alkoxy groups, and aryloxy groups; and addition salts thereof with acids, which method comprises contacting a methyl ketone having the formula:



in which R is as defined above, with a 4-quinazolone-3-acetic acid ester in the presence of a condensing agent selected from the group consisting of alkali metal alkoxides, alkali metal amides, and alkali metals.

2,651,634

PROCESS FOR THE PREPARATION OF 1-BENZYL-5,6,7,8-TETRAHYDROISOQUINOLINE

Hans Henecka, Wuppertal-Elberfeld, Germany, assignor, by mesne assignments, to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen-Bayerwerk, Germany

No Drawing. Application December 9, 1950, Serial No. 200,121. In Switzerland December 12, 1949

11 Claims. (Cl. 260—283)

1. Process for the synthesis of intermediates for the manufacture of therapeutic agents that comprises condensing a phenylacetic ester with cyclohexanone to produce 2-(α-toluyl)-cyclohexanone, reacting this product with cyanacetamide to form 1-benzyl-2,3,5,6,7,8-hexahydro-4-cyano-isoquinolone-3, subjecting this product to hydrolysis under mildly acidic conditions to effect removal of the substituent cyano group, reacting the product with a phosphorus oxyhalide to replace the substituent 3-keto group with a halogen substituent, reducing this halogen compound by catalytic hydrogenation and recovering 1-benzyl-5,6,7,8-tetrahydroisoquinoline from the reaction mixture.

2,651,635

PREPARATION OF 1-BENZYL-1:2:3:4:5:6:7:8-OCTAHYDRO-ISOQUINOLINE

Hans Henecka, Wuppertal-Elberfeld, Germany, assignor, by mesne assignments, to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen-Bayerwerk, Germany

No Drawing. Application December 9, 1950, Serial No. 200,123. In Switzerland December 16, 1949

3 Claims. (Cl. 260—283)

1. Process for the synthesis of intermediates useful in the manufacture of therapeutic agents that comprises reacting a $\Delta^{1,2}$-2(α-toluyl) cyclohexenyl-acetonitrile, with hydrogen in the presence of a hydrogenation catalyst, and recovering a 1-benzyl-1,2,3,4,5,6,7,8-octahydroisoquinoline from the reaction mixture.

2,651,636

PREPARATION OF ORTHO-PHENANTHROLINE

Gordon K. Wheeler, Norwalk, Conn., assignor to R. T. Vanderbilt Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application April 20, 1951, Serial No. 222,163

1 Claim. (Cl. 260—288)

In the preparation of ortho-phenanthroline by reacting ortho-phenylene diamine, glycerol, arsenic trioxide and sulfuric acid, the steps of recovering the ortho-phenanthroline from the salt and tar present in the neutralized reaction mixture by admixing the neutralized reaction mixture with hot kerosene thereby forming a solution of ortho-phenanthroline in hot kerosene and thereafter cooling the solution to precipitate the ortho-phenanthroline.

2,651,637

1 - BENZYL - 2,3,5,6,7,8 - HEXAHYDROISOQUINOLONE-3 AND THE PREPARATION THEREOF

Hans Henecka, Wuppertal-Elberfeld, Germany, assignor, by mesne assignments, to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen-Bayerwerk, Germany

No Drawing. Application December 9, 1950, Serial No. 200,122. In Switzerland December 12, 1949

8 Claims. (Cl. 260—289)

1. Process for the synthesis of chemical compounds useful as intermediates in the manufacture of therapeutic agents that comprise condensing an α-toluyl halide with $\Delta^{1,2}$-cyclohexenyl-acetonitrile in an organic solvent medium and in the presence of a Friedel-Crafts reaction catalyst, to produce $\Delta^{1,2}$-2-(α-toluyl)-cyclohexenyl acetonitrile, and heating this product with phosphoric acid to use intramolecular rearrangement and formation of 1-benzyl-2,3,5,6,7,8-hexahydroisoquinolone-3, and recovering this product from the mixture.

2,651,638

DERIVATIVES OF 1,2,3-TRISUBSTITUTED PYRAZOLONES AND PROCESSES OF PRODUCING SUCH COMPOSITIONS

Jules H. T. Ledrut, Brussels, Belgium, assignor to Luxema S. A., Ixelles (Brussels), Belgium, a company of Luxemburg

No Drawing. Application December 19, 1950, Serial No. 201,706. In the Netherlands December 21, 1949

7 Claims. (Cl. 260—310)

6. Benzene sulfone hydrazide of 1-phenyl-2,3-dimethyl-4-carboxy-5-pyrazolone.

2,651,639

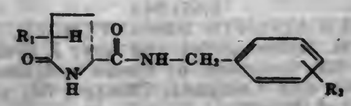
2-PYRROLIDONE-5-CARBOXAMIDE DERIVATIVES AND METHODS OF PREPARING THE SAME

Robert Bruce Angier, Pearl River, N. Y., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 22, 1951, Serial No. 243,155

14 Claims. (Cl. 260—326.3)

1. The new chemical compounds represented by the formula:



in which R_1 represents at least 1 member selected from the group consisting of hydrogen and lower alkyl radicals and in which R_2 represents at least 1 member selected from the group consisting of hydrogen, lower alkyl radicals and halogen radicals.

2,651,640

4-AMINO AND 4-CHLORO PHENYL-2-THIENYL KETONES

Franz Marschall, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 15, 1948, Serial No. 65,538
2 Claims. (Cl. 260—332.3)

1. 4-aminophenyl-2-thienyl ketone.
2. 4-chlorophenyl-2-thienyl ketone.

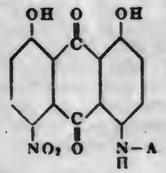
2,651,641

1,8-DIHYDROXY-5-NITRO-4-METHYLOLANILINOANTHRAQUINONE COMPOUNDS AND PROCESS FOR THEIR PREPARATION

James M. Straley and Joseph B. Dickey, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application January 16, 1951, Serial No. 206,304
8 Claims. (Cl. 260—380)

1. The anthraquinone compounds having the general formula:



wherein A represents a monocyclic benzene nucleus containing a



group wherein R represents a member selected from the group consisting of a hydrogen atom, a methyl group and an ethyl group.

2,651,642

PREPARATION OF DEHYDROCHOLIC ACID

Robert H. Sifferd, Joliet, Ill., assignor, by mesne assignments, to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application June 19, 1951, Serial No. 232,451
6 Claims. (Cl. 260—397.1)

1. In the preparation of dehydrocholic acid from cholic acid, the steps of dissolving cholic acid in acidified aqueous tertiary alcohol which is a solvent for cholic acid and a non-solvent for dehydrocholic acid, reacting chromic acid therewith to form as a reaction product dehydrocholic acid and to form a separate tertiary alcohol phase and an aqueous phase, separating the alcohol phase from the aqueous phase and recovering dehydrocholic acid from the alcohol phase.

2,651,643

PURIFICATION OF DESOXYCHOLIC ACID

Robert H. Sifferd, Joliet, and Jerry J. Svarz, Chicago, Ill., assignors, by mesne assignments, to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application June 19, 1951, Serial No. 232,452
4 Claims. (Cl. 260—397.1)

1. In a process for the separation of desoxycholic acid from a mixture of cholic and desoxycholic acids, the steps of dissolving the mixture of acids in a solution of methyl ethyl ketone in water to form a supernatant phase rich in methyl ethyl ketone and a subnatant phase poor in said ketone, adding water thereto, and separating the desoxycholic acid crystals from the two-phase liquid mixture.

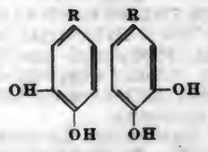
2,651,644

DEHYDROBICATECHOLS

Ole Gisvold, Minneapolis, Minn., assignor to Regents of the University of Minnesota, Minneapolis, Minn., a corporation of Minnesota

No Drawing. Application June 3, 1949, Serial No. 97,093
7 Claims. (Cl. 260—398.5)

1. A material normally subject to the deteriorating effects of oxidative rancidity containing a fractional percentage of a compound having the formula



in which R is an aliphatic hydrocarbon group containing from 1 to 3 carbon atoms.

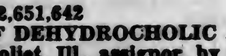
2,651,645

SURFACE ACTIVE AGENTS

James M. Cross, Belvidere, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application June 9, 1948, Serial No. 32,039
4 Claims. (Cl. 260—401)

1. Compounds of the following formula:



wherein R is an alkyl radical, R_1 is a saturated aliphatic hydrocarbon radical, and X is selected from the class consisting of hydrogen and salt forming groups, the sum of the carbon atoms in RCO and R_1 being at least 16 but not greater than 19, the number of carbon atoms in RCO being at least 8 but not greater than 14 and the number of carbon atoms in R_1 being at least 5 but not greater than 8.

2,651,646

LIQUID-LIQUID EXTRACTION PROCESS

Henry Arnold Goldsmith, Long Island City, N. Y., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware

No Drawing. Application March 4, 1950, Serial No. 147,761
6 Claims. (Cl. 260—410.7)

1. A process of treating an ester product containing principally a mixture of less completely and more completely acylated esters of fatty acids and polyhydric alcohols which comprises contacting said ester product with water, a water miscible lower aliphatic alcohol, and a low boiling aliphatic hydrocarbon, said alcohol and hydrocarbon being miscible and said water being present in an amount sufficient to cause the formation of two immiscible liquid phases, one phase comprising aqueous alcohol in which a major proportion of said less completely acylated esters are dissolved and one phase comprising the hydrocarbon in which a major proportion of said more completely acylated esters are dissolved, and separating said two liquid phases.

2,651,647

PROCESS OF DEHYDRATION OF FATTY MATERIALS

Charles Greenfield, River Edge, N. J.

No Drawing. Application December 9, 1949, Serial No. 132,220
11 Claims. (Cl. 260—412.1)

1. A process of dehydrating a mass of finely ground non-fat solids, fats, and water, which comprises adding to said mass an oil whereby the oil content of the said mass is increased to form a liquid mixture in which the ratio of the total fat to non-fat solids is at least two parts of fat to one part of non-fat solids, and heating the said liquid mixture at subatmospheric pressure and removing the water therefrom in the vapor state, whereby a liquid residue is obtained consisting essentially of substantially dehydrated solids and fats, and then separating the said solids from the fats thereby to obtain a separate fraction of substantially dehydrated non-fat solids.

2,651,648

COPPER DIAMMONIUM PENTACHLOROPHENOLATE

Frederick J. Meyer, Freeland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application July 12, 1950, Serial No. 173,479
1 Claim. (Cl. 260—438)

Copper diammonium pentachlorophenolate having the formula $Cu(NH_3)_2(C_6Cl_5O)_2$.

2,651,649

REACTION PRODUCT OF A XANTHATE, AN INORGANIC SULFIDE, AND A COPPER SALT

Sidney B. Tuwiner, Baldwin, N. Y., assignor to Phelps Dodge Corporation, New York, N. Y., a corporation of New York

No Drawing. Application September 26, 1950, Serial No. 186,913
8 Claims. (Cl. 260—438)

1. An oil soluble organic composition which comprises the reaction product in aqueous solution of a mixture of a water soluble xanthate and a water soluble inorganic sulfide with an equivalent amount of a water soluble salt of copper.

2,651,650

MANUFACTURE OF FERRIC DITHIOCARBAMATES

Charles J. McKone, Charleston, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application March 21, 1950, Serial No. 151,046
8 Claims. (Cl. 260—439)

1. The method of making a ferric salt of an aliphatic dithiocarbamic acid which comprises adding to an aqueous solution of a dithiocarbamate a water soluble ferric salt and discontinuing the addition before an oxidation potential persists as measured by a platinum-saturated calomel electrode, separating the precipitated ferric dithiocarbamate and drying.

2,651,651

SILICON HALIDES CONTAINING FLUOROCARBON RADICALS

Joseph H. Simons and Robert D. Dunlap, State College, Pa., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

No Drawing. Application May 4, 1949, Serial No. 91,423
4 Claims. (Cl. 260—448.2)

1. Chemical compounds having the formula

$$(C_nF_{2n+1})_mSiX_{4-m}$$

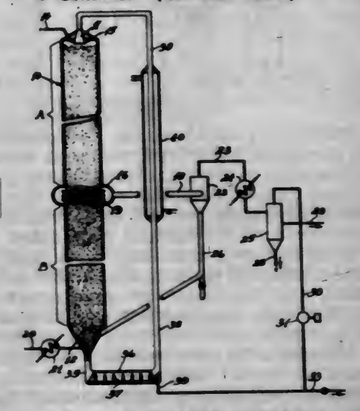
where X is halogen, n is an integer and m is an integer from one to three.

2,651,652

CATALYTIC SYNTHESIS OF HYDROCARBONS AND OXYGENATED ORGANIC COMPOUNDS

Eugene E. Sensel, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

Application September 16, 1947, Serial No. 774,246
3 Claims. (Cl. 260—449)



1. In the synthesis of hydrocarbons, oxygenated hydrocarbons and mixtures thereof wherein a synthesis gas mixture of hydrogen and carbon monoxide is passed in contact with a hydrocarbon synthesis catalyst under reaction conditions such that sticky deposits are formed on the surface of the catalyst, the improvement which comprises continuously maintaining a gravitating shower of dispersed, solid particle catalyst downwardly through a vertical reaction chamber of substantial height, said shower comprising freely falling catalyst particles continuously gravitating from the upper portion to the bottom portion of said reaction chamber in dispersed spaced relationship through a substantially open and uninterrupted vertical space, feeding said reactants into the upper portion of said reaction chamber, passing said reactants downwardly concurrently with said gravitating catalyst under said reaction conditions to form an effluent reactant stream including said desired products of reaction, injecting into the lower portion of said reaction chamber a stream of hydrogen substantially free from carbon monoxide and passing said hydrogen stream upwardly counter-currently to the gravitating shower of catalyst therein at a temperature effective to strip said sticky deposits from the catalyst, simultaneously withdrawing as a mixed product stream, the effluent reactant stream and the effluent stripping gas stream from a point intermediate of the vertical elevation of said reaction chamber, rich in hydrogen, carbon

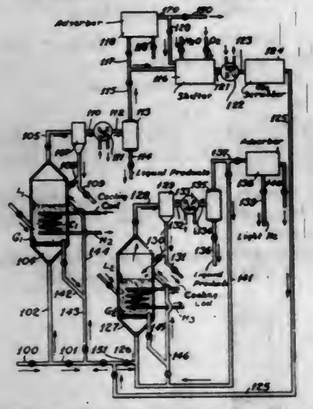
dioxide, water vapor and said desired products of reaction, and recovering said products of reaction.

2,651,653

TWO-STAGE HYDROCARBON SYNTHESIS

Charles E. Hemminger, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application December 18, 1948, Serial No. 66,115
1 Claim. (Cl. 260—449.6)



The method of synthesizing hydrocarbons, including normally liquid hydrocarbons which comprises charging a feed gas containing hydrogen and carbon monoxide in the ratio of about 0.9 to 1.5 mols of hydrogen per mol of carbon monoxide to a reaction zone containing a fluidized mass of cobalt type catalyst, maintaining a temperature within the reaction zone of about 450° to 500° F., permitting the reactants to remain resident in contact with the catalyst for a sufficient period of time to convert 40 to 50% of the carbon monoxide, withdrawing the reaction products from the reaction zone, condensing normally liquid constituents, separating uncondensed gasiform material, subjecting the said gasiform material to a water gas shift reaction, removing carbon dioxide from the thus treated gasiform material, charging the resulting gasiform material to a second reaction zone containing a fluidized mass of cobalt type catalyst, subjecting the reactants to synthesis conditions of temperature and pressure in said second reaction zone for a sufficient period of time to effect the desired conversion, recovering a product from said second reaction zone, condensing normally liquid constituents contained in said product and recovering the desired products from both of said reaction zones.

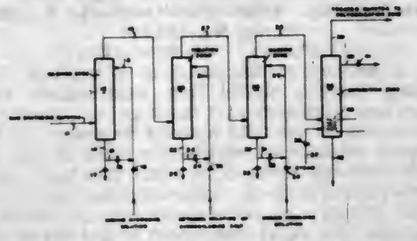
2,651,654

TREATMENT OF HYDROCARBON SYNTHESIS NAPHTHA

Boyd N. Hill, Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application January 21, 1949, Serial No. 71,775
9 Claims. (Cl. 260—450)

1. A method for removing contaminating compounds from a naphtha fraction obtained by contacting a gaseous mixture of carbon monoxide and hydrogen with a suitable catalyst under conversion conditions to form a mixture of hydrocarbons and oxygenated organic compounds which comprises washing a contaminated naphtha fraction consisting of said mixture of hydrocarbons and oxygenated organic compounds with an aqueous solution of an alkali metal hydroxide, removing said aqueous solution from contact with said naphtha fraction, contacting the washed naphtha fraction with an alcoholic solution containing no more than 30% of water in which has been dissolved a treating reagent selected from the class consisting of hydroxylamine and its inorganic salts in an amount within the range of .2 to 2 parts of alco-



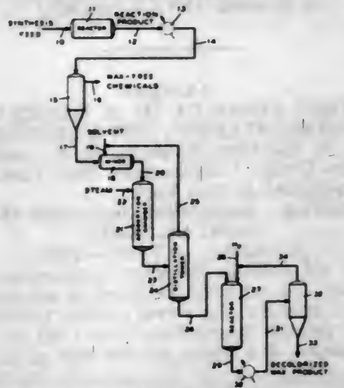
holic solution for each part of washed naphtha, removing said alcoholic solution from contact with said naphtha, washing said treated naphtha with an aqueous solution of alkali metal hydroxide, removing said naphtha from contact with said alkali metal hydroxide solution and distilling said naphtha to recover a fraction having a boiling range substantially identical to the boiling range of the contaminated naphtha.

2,651,655

TREATMENT OF HYDROCARBON WAXES

Robert T. Loughran, Jersey City, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Application June 29, 1949, Serial No. 101,961
9 Claims. (Cl. 260—450)



1. A method for refining a liquid waxy product produced by condensing the product of hydrogenation of oxides of carbon in the presence of a hydrogenation catalyst at a temperature between about 300° F. and about 700° F. and at a pressure between about atmospheric pressure and about 500 pounds per square inch, said waxy product containing color-imparting metallo-organic compounds and color-imparting unsaturated hydrocarbons, which comprises: dissolving said waxy product in a solvent; contacting the resulting solution at elevated temperature with a solid adsorbent to separate from said solution said color-imparting metallo-organic compounds; withdrawing the solution from contact with said adsorbent; and further decolorizing the thus partially decolorized waxy product by subjecting said product to hydrogenation in the presence of a hydrogenation catalyst at

a temperature between about 150° F. and about 400° F. and at a pressure between about 75 and about 1500 pounds per square inch gauge for a residence time of at least 30 minutes to convert unsaturated color-imparting hydrocarbons to their corresponding paraffins.

2,651,656

PROCESS OF PREPARING TETRAALKYL ESTERS OF 1,2-ETHANEDIPHOSPHONIC ACID

Elbert C. Ladd and Merlin F. Harvey, Passaic, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application April 17, 1950, Serial No. 156,504
5 Claims. (Cl. 260—461)

1. The process of making a tetraalkyl ester of 1,2-ethanediphosphonic acid which comprises heating a mixture of a dialkyl phosphite and a dialkyl ester of ethenephoshonic acid in the presence of a basic catalyst selected from the group consisting of alkali and alkaline earth metals and their oxides, hydroxides and alcoholates, and recovering said tetraalkyl ester from the resulting reaction mixture.

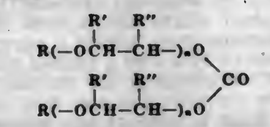
2,651,657

SYNTHETIC LUBRICATING OIL

Louis A. Mikeska, Westfield, and Lawrence T. Eby, Linden, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application May 21, 1949, Serial No. 94,748
3 Claims. (Cl. 260—463)

1. As a new composition of matter a compound of the formula—



where R is an alkyl group containing 1 to 10 carbon atoms, R' and R'' are members of the group consisting of hydrogen and methyl groups, one being hydrogen and the other a methyl group in each radical, and n is an integer from 8 to 20, said composition of material having a molecular weight of at least 300 and a viscosity less than 40 centistokes at 210° F.

2,651,658

PRODUCTION OF COMPOUNDS OF PHOSGENE

Lester E. Bohl, New Martinsville, W. Va., assignor, by mesne assignments, to Columbia-Southern Chemical Corporation, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Original application March 23, 1948, Serial No. 16,611. Divided and this application July 30, 1949, Serial No. 107,819
6 Claims. (Cl. 260—471)

1. In the process of preparing a carbamate ester by reacting a haloformate with an amine whereby the carbamate ester containing haloformate halogen as an impurity is obtained, the improvement which comprises removing haloformate halogen from the carbamate ester by contacting the ester with a compound of the group consisting of ammonia and ammonium compounds which will liberate ammonia for reaction with HCl, and removing the resultant halide which is formed.

2,651,659

PREPARATION OF 2,4-DICHLOROPHENOXYACETIC ACID

John C. R. Warren, Elmira, Ontario, and Marshall Kulka, Guelph, Ontario, Canada, assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application January 31, 1952, Serial No. 269,194
2 Claims. (Cl. 260—521)

1. In a process for preparing 2,4-dichlorophenoxyacetic acid by reacting sodium 2,4-dichlorophenolate with sodium monochloracetate and subsequently recovering 2,4-dichlorophenoxyacetic acid from the reaction mixture, the improvement which comprises the step of forming the sodium monochloroacetate required as a reactant in situ in an inert water-insoluble organic solvent for 2,4-dichlorophenol, said solvent being selected from the group consisting of hydrocarbons and chlorinated hydrocarbons, and said solvent having a boiling point of from 70° to 200° C. by mixing 1 mole of monochloroacetic acid and at least 2 molar equivalents of preformed sodium 2,4-dichlorophenoxide as such, thereby providing an equilibrium reaction mixture in which one molar equivalent of free 2,4-dichlorophenol as such is liberated for each molar equivalent of sodium monochloroacetate formed in situ and suppressing hydrolysis of the monochloroacetic acid to undesired glycollic acid by-product, and improving the yield of desired 2,4-dichlorophenoxyacetic acid.

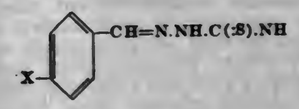
2,651,660

NITROAROMATIC-BENZALTHIOSEMICARBAZONES

Hans Schmidt, Wuppertal-Vohwinkel, and Robert Behnisch, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application July 20, 1951, Serial No. 237,836. In Germany July 22, 1950
3 Claims. (Cl. 260—552)

1. A compound represented by the formula:



wherein X is a substituent radical chosen from the group consisting of 4-nitro-phenyl and 4-nitro-benzoyl.

2,651,661

PROCESS FOR THE PREPARATION OF 1-p-NITROPHENYL-2-DICHLOROACETAMIDOPROPANE-1,3-DIOL

Harry R. Gamrath, St. Louis, and William S. Knowles, Kirkwood, Mo., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application December 30, 1950, Serial No. 203,798
7 Claims. (Cl. 260—562)

1. In a process for the preparation of 1-p-nitrophenyl - 2 - dichloroacetamidopropane-1,3-diol, the step comprising reacting methyl dichloroacetate and 1-p-nitrophenyl-2-aminopropane-1,3-diol in a solvent comprising essentially methyl alcohol at a temperature between about 5° C. and the boiling point of the reaction mixture.

2,651,662
TREATMENT OF PENTAERYTHRITOL MOTHER LIQUOR
Edward J. Russell, Allentown, Pa., assignor to Trojan Powder Company, a corporation of New York
No Drawing. Application January 6, 1951, Serial No. 204,817
7 Claims. (Cl. 260—615)

1. In preparing non-tacky pulverizable material from a water soluble semiplastic tacky dehydrated pentaerythritol mother liquor, the method which comprises heating the semiplastic tacky dehydrated material at a temperature of 175° to 270° C., separating water as liberated during heating, continuing such heating and water separation at such elevated temperature for a short period of time until a sample taken from the batch and cooled forms a hard brittle substance containing a minor proportion of material insoluble in water and having a substantially lower hydroxyl content than that of a sample of the original mother liquor which has been reduced to a semiplastic tacky mass by heating at a temperature of 100° to 130° C.

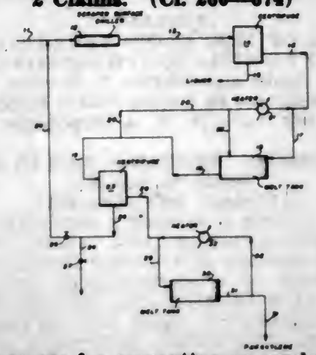
2,651,663
PRODUCTION OF POLY-PENTAERYTHRITOLS
Stanley F. Marrian, Ardrossan, and Andrew McLean, West Kilbride, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application July 23, 1947, Serial No. 763,174. In Great Britain August 2, 1946
10 Claims. (Cl. 260—615)

4. A process for the production of polypentaerythritols which comprises heating a material from the group consisting of pentaerythritol, polypentaerythritols of lower molecular weight than the desired product and mixtures thereof at a temperature above 100° C. in the presence of an organic sulphonic acid and a water-immiscible volatile organic solvent selected from the group consisting of hydrocarbon and chlorinated hydrocarbon solvents which are chemically inert toward pentaerythritol and said organic sulphonic acid and removing water formed from the reaction mixture along with vapors of said organic solvent by distillation.

2,651,664
PREPARATION OF 2,2,3,3-TETRACHLOROBUTANE
Elbert C. Ladd, Passaic, and Herbert Sargent, Glen Rock, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application April 15, 1949, Serial No. 87,833
1 Claim. (Cl. 260—658)

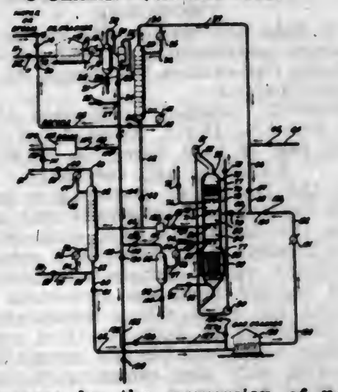
The process of making 2,2,3,3-tetrachlorobutane which comprises shaking 1,1,1-trichloroethane with hydrogen at ambient temperature and at atmospheric pressure in the presence of a platinum hydrogenation catalyst and a hydrogen halide acceptor composed of ammonia dissolved in water until one mole of hydrogen per two moles of 1,1,1-trichloroethane has been absorbed, and recovering 2,2,3,3-tetrachlorobutane from the resulting reaction mixture.

2,651,665
RECOVERY OF PURE PARAXYLENE
John D. Booker, Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application June 10, 1950, Serial No. 167,447
2 Claims. (Cl. 260—674)



1. A process for separating paraxylene of over 90% purity from a mixture of it with at least one other isomeric xylene wherein the mixture contains a minor portion of paraxylene which comprises cooling said mixture to a temperature no lower than its eutectic point to form a first slurry of paraxylene crystals in a mother liquor, centrifuging said first slurry for no more than two minutes and sufficient to separate a first cake comprising a major portion of paraxylene and a first mother liquor, heating the first cake to a temperature in the range between −30° and 40° F. to form a second slurry containing paraxylene crystals in an amount in the range between 30% and 85% by weight of said slurry, centrifuging the second slurry for a time sufficient to separate a second cake having a paraxylene content in excess of 90% and a second mother liquor the time of centrifuging the second slurry plus the time for centrifuging the first slurry being no greater than a total of ten minutes, admixing at least a portion of the second mother liquor with the feed mixture, and recovering substantially pure paraxylene from said second cake.

2,651,666
ADSORPTION PROCESS
Clyde H. O. Berg and Donald H. Imhoff, Long Beach, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application April 5, 1948, Serial No. 18,914
8 Claims. (Cl. 260—683)



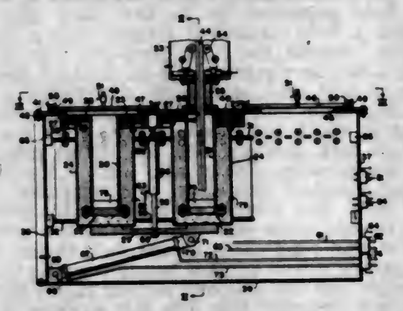
1. A process for the conversion of normally liquid hydrocarbon oils to normally gaseous unsaturated hydrocarbons which comprises distilling an ethylene-containing gaseous mixture obtained from cracking of said normally liquid hydrocarbons to obtain a first overhead product containing a major proportion of hydrogen and methane and a minor proportion of ethylene leaving a first bottoms product containing ethylene, ethane and higher molecular weight hydrocarbons, redistilling said first bottoms product in a separate distillation zone to recover ethylene, contacting said overhead product with a moving bed of activated charcoal to adsorb ethylene leaving hydrogen and methane substantially unadsorbed as a lean gas product, and desorbing the ethylene thus adsorbed.

2,651,667
RUBBER STABILIZED WITH A THIOUREA DERIVATIVE
Eugene F. Hill, Birmingham, and David O. De Free, Royal Oak, Mich., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application August 15, 1951, Serial No. 242,033
4 Claims. (Cl. 260—869)

4. A composition consisting essentially of rubber and, as a principal antioxidant material in quantity sufficient to prevent said deterioration by oxygen, an N,N'-bis(p-aminophenyl) thiourea antioxidant.

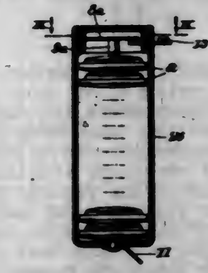
ELECTRICAL

2,651,668
CRUCIBLE INTERCHANGING MECHANISM FOR ARC MELTING FURNACES
Raymond L. Southern, Troy, N. Y., assignor to Allegheny Ludlum Steel Corporation, Brackenridge, Pa., a corporation of Pennsylvania
Application June 20, 1952, Serial No. 294,667
11 Claims. (Cl. 13—33)



1. In the making of ingots of titanium or other difficultly reducible metal in water-cooled crucibles from a vertically movable consumable electrode of such metal material in a vacuum or atmosphere of inert gas, the steps which comprise providing within a container having two water cooled crucibles located therein an atmosphere which is not harmful to such metal when molten, electric arc melting within one such crucible material from such electrode until such crucible is substantially filled with such metal, moving both crucibles sidewise until the empty crucible is beneath such electrode, electric arc melting within such second crucible material from such consumable electrode until the metal within said first crucible is solidified and cooled to a temperature such that it will not be harmfully affected by exposure to atmospheric air, then opening such first container to the atmosphere while the other crucible and its container remain sealed from the atmosphere, removing from such container such first crucible and replacing the same by an empty crucible, then sealing such empty crucible and its container from the ambient atmosphere, exhausting such empty crucible and providing an atmosphere within the same which is inert to such metal when molten, continuing the filling of such second crucible with molten material from such consumable electrode and when such second crucible is substantially filled with such metal, in moving both crucibles sidewise in the opposite direction from the first sidewise movement until the empty crucible is below such electrode, then in repeating the cycle of operations above outlined.

2,651,669
HERMETICALLY SEALED STORAGE BATTERY
Georg Neumann, Paris, France, assignor to Bureau Technique Gastrat, S. A. R. L., Paris, France, a society of France
Application March 3, 1948, Serial No. 12,785
In France March 14, 1947
3 Claims. (Cl. 136—182)

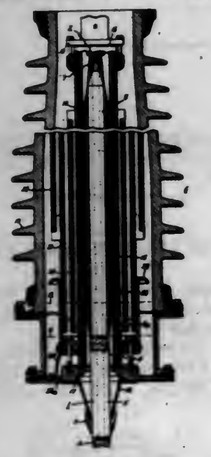


1. In a hermetically sealed storage battery cell at least one electrode of one polarity and at least one electrode of the opposite polarity, a first terminal, means for connecting said first terminal to one of said electrodes, two other terminals, means for connecting said two latter terminals in parallel to the electrode of the opposite polarity, a switch for opening and closing the connecting means between one of said latter terminals arranged for charging the battery cell and the electrode of the opposite polarity, and pressure responsive means associated with the battery cell and adapted to open the switch under the pressure of gases generated during the charging operation.

2,651,670
HIGH-VOLTAGE POTHEAD WITH STRESS DISTRIBUTING MEANS
Phillips N. Bosworth, Becket, Mass., assignor to General Electric Company, a corporation of New York
Application April 13, 1951, Serial No. 220,844
1 Claim. (Cl. 174—73)

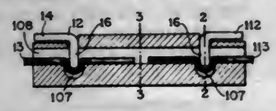
In a pothead used for terminating high voltage cable, means for effecting uniform distribution of equipotential lines to prevent axially directed

dielectric breakdown, said distributing means comprising a plurality of insulating cylinders and a plurality of stepped radially spaced electrically conducting cylinders concentrically located with respect to one another and to a central unshielded electric conductor, means for insulating said conducting cylinders from one another and from ground and from said conductor, said insulating means comprising the forming of said conducting cylinders in an insulating cylinder by wrapping a layer of electrically conducting material between the layers of a resin impregnated paper during the formation of said insulating cylinder, means for spacing said insulating cylinders whereby each of said electrically



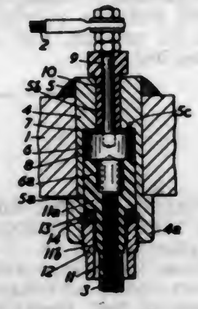
conducting cylinders has a portion overlying a complementary portion of one other of said electrically conducting cylinders, and each has a portion directly overlying said electric conductor, an electrically conducting cylinder held at ground potential located concentric with said cable and between a portion of the radially inner one of said ungrounded cylinders and said conductor with successive of said conducting cylinders being radially spaced to overlie both a portion of the next radially inner one thereof and a portion of the conductor whereby all of said cylinders interact to form a capacitance network to effect an approximately uniform distribution of the electric field.

2,651,671
ELECTRICAL CONNECTION
Joseph P. Lanfear, Long Island City, N. Y.
Application March 17, 1951, Serial No. 216,166
6 Claims. (Cl. 174—94)



1. An electrical connector comprising male and female conducting members cut out to provide a wireway in the interior of their assemblage, indentations in the wireway, primary channels into the wireway opposite each indentation, secondary channels on each outside surface of the connector in line with the channels into the wireway, trident shaped rams mounted on the connector with their outside tines in the secondary channels and their inside tines in the primary channels, the inside tines being just long enough, when the rams are pushed down, to jam a wire against the bottoms of the indentations, and means for locking the rams in their downward position.

2,651,672
FLUID SEALING DEVICE FOR ELECTRICAL CONDUCTORS
Victor Ivanoff, Luton, England
Application January 20, 1950, Serial No. 139,717
In Great Britain January 20, 1949
9 Claims. (Cl. 174—152)

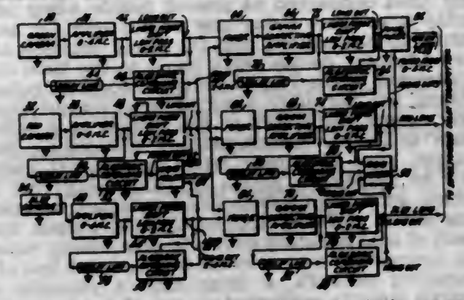


1. In combination, a wall subjected to different fluid pressures on its two sides, said wall having a hole through it formed with a surface facing towards the high pressure side of said wall, a flexible electric cable on the high pressure side of said wall, said cable comprising a conducting cable core and an insulating covering therefor which protects said cable from the fluid on said high pressure side, conducting means on the low pressure side of said wall, a conducting thrust member located in and insulated from, said hole, and connected on the high pressure side to said cable core and on the low pressure side to said conducting means, said thrust member having a first surface facing towards the low pressure side and a second surface facing towards the high pressure side, the said surface of said hole coacting with the said first surface of said thrust member to restrain said thrust member against movement through said hole towards the low pressure side, and said second surface of said thrust member being within said hole, flexible insulating sealing material secured around said insulating cable covering and located in said hole against said second surface of said thrust member, an apertured nut, through which the cable passes, screwed into said hole from the high pressure side for pre-compressing said sealing material against said second surface of said thrust member so as to make a seal with said second surface of said thrust member and with the inner periphery of said hole, said sealing material being exposed to the fluid pressure on the high pressure side, whereby said seal is augmented, and insulation material resistant to cold deformation disposed between said surface of said hole and said first surface of said thrust member.

2,651,673
FREQUENCY DISCRIMINATORY SYSTEM
Gordon L. Fredendall, Feasterville, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application September 20, 1949, Serial No. 116,801
5 Claims. (Cl. 178—5.4)

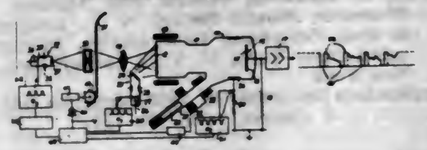
1. In a color television system having apparatus for producing three primary color signal channels of predetermined band widths, in combination, a separate amplifier for handling the

bandwidth of each color channel, a frequency separating circuit connected with the output of each amplifier for parting the color channel signals into low and high frequency components, each of said separating units comprising, a low pass system constituted to pass the low frequency components of the channel with a predetermined phase shift vs. frequency characteristic, a band pass system adapted to communicate both said high and low frequency components with a phase shift vs. frequency characteristic having a portion thereof corresponding to said low pass system



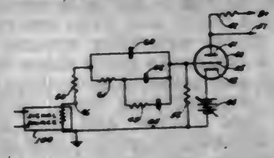
phase shift vs. frequency characteristic, means for combining the outputs of said low pass and band pass system in such relation to cancel low frequency components in said combining means, whereby high frequency components of each color channel is made available at the output of each combining means, while the low frequency components of each channel is made available at the output of said low pass system, the low and high frequency components being in phase with one another in the cross over range between the low pass output of the low pass system and the high frequency output of said combining means.

2,651,674
TELEVISION TRANSMISSION FROM INTERMITTENT FILM BY MEANS OF PULSED PICKUP TUBE
Richard Theile, Cambridge, England, assignor to Cathodeon Limited, Cambridge, England, a British company
Application May 8, 1950, Serial No. 160,636
In Great Britain April 20, 1949
12 Claims. (Cl. 178—7.2)



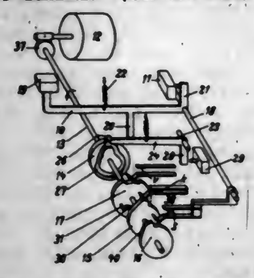
7. Television apparatus comprising a video storage tube having a charge storage surface associated with a signal plate and adapted to form a charge pattern in response to an electron image incident upon the storage surface, means for scanning said surface with a high velocity electron beam to discharge said surface to an equilibrium potential, a collector electrode for collecting electrons emitted from the storage surface under the action of the scanning beam and of the incident electron image, a large-area source of electrons, means for energising said large-area source to cause it to emit electrons, electron optical means for forming an image of said large-area source on said charge-storage surface to cause the latter to emit electrons, means operable for a time interval at the commencement of each frame flyback period of the scanning beam for pulsing said large-area source to cause electron emission from the storage surface, and means operable simultaneously with and for the same duration as said pulsing means, for applying a field in the neighbourhood of the storage surface to cause the emitted electrons to return to that surface, whereby to charge the storage surface negatively during said time interval and thereby shift its potential negatively from said equilibrium value attained by the discharging action of the scanning beam, an intermittent light source for illuminating the film while stationary and means for controlling the light output of said source intermittently in timed relation with the intermittent film feed during a second succeeding time interval of each frame flyback period for projecting a light image from said film onto said tube to form a charge pattern responsive to said light image on said storage surface.

2,651,675
PLURAL TIME CONSTANT CIRCUITS FOR NOISE IMMUNITY
Francis A. Wissel, Cincinnati, Ohio, assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware
Application June 8, 1950, Serial No. 166,810
5 Claims. (Cl. 178—7.3)



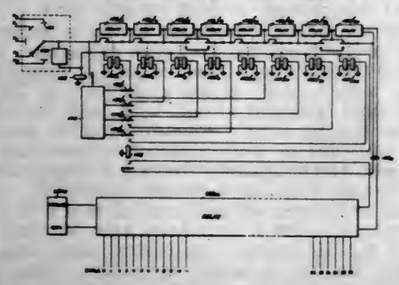
4. In a television receiver sync separation circuit the combination comprising a composite source of television signals including picture components and blacker than black positive going sync components; a first time constant circuit comprising a first capacitor coupled across said signal source through a resistance path which includes the grid-cathode path of an amplifier threshold biased at substantially the black level of said picture components; discharge means coupled directly across said first capacitor to form a second time constant circuit having a time constant greater than the time constant of said first time constant circuit; said discharge means comprising a first resistor and a series connected second capacitor having a larger capacitance value than said first capacitor, and a second resistor and third capacitor coupled directly across said second capacitor, to form a third time constant circuit with said second capacitor having a time constant greater than the time constant of said second time constant circuit, said third capacitor having a larger capacitance value than said second capacitor; and a discharge resistor coupled across said grid-cathode path to form a discharge path through said source for all of said capacitors; said discharge resistor having a larger resistance value than either of said first or second resistor and forming a discharge time constant with said first capacitor larger than the time constant of the second time constant circuit or the third time constant circuit; whereby said discharge means discharges said first capacitor substantially between the upper potential limit of peak signal charge on said first capacitor and a blocking potential lower limit established by the charge on said second and third capacitors.

2,651,676
ELECTRIC CURRENT IMPULSE TRANSMITTER
Otto Meser, Bern, Switzerland
Application August 14, 1951, Serial No. 241,758
In Switzerland August 24, 1950
6 Claims. (Cl. 178—17)



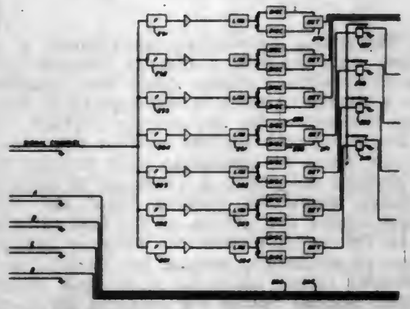
1. Apparatus for transmitting electric pulse combinations, comprising a mechanism for selecting a pulse combination to be transmitted, a shaft, a drive joined with said shaft, a pulse control disc for each of the available pulse combinations mounted on said shaft to revolve together therewith, a start switch controlled by said mechanism and connected with said drive for starting said drive when said mechanism is actuated, pulse contact means for transmitting said pulse combination having a movable contact control member with a feeler, said pulse control disc having a cam groove extending around said shaft and having a composite curve shape corresponding to one of said pulse combinations, said movable control member and feeler having a bias away from said groove, and said mechanism, when being actuated to control said start switch, being engageable with said control member to move said feeler against said bias into said groove, and said groove having a cross sectional shape straddling said feeler and forming a double-sided guiding contour for oscillating said feeler.

2,651,677
ELECTRICAL INTERCOMMUNICATION SYSTEM
Jean Julien Baptiste Lair, Nutley, N. J., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application March 18, 1950, Serial No. 150,437
9 Claims. (Cl. 179—15)



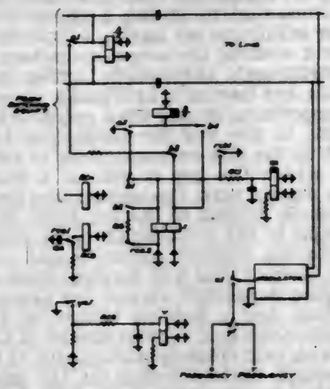
1. In a communication system a plurality of transmitting networks from which a plurality of separate signals are to be transmitted, a plurality of receiving networks each adapted to receive a plurality of separate signals, a plurality of selecting networks, each of said transmitting networks being connected to a receiving network by a single transmitting medium, each of said transmitting networks comprising means for producing a plurality of repetitive pulses on the associated transmitting medium at the same rate of repetition and spaced from each other in time, there being one pulse for each signal to be transmitted, means for modulating said pulses respectively with said signals, and means for producing a reference pulse at the same repetition rate as said signal pulse which has a different time position from reference pulses of other transmitter networks and provides an identification for said transmitting network, each of said receiving networks comprising a delay line, a plurality of output lines connected at spaced points along said delay line, there being one output line for each signal to be received and the delay between any two adjacent points being equal to the time displacement of the respective corresponding pulses, means for normally blocking said output lines, and means responsive to the receipt of a reference pulse for simultaneously unblocking said output lines at a time when said signal pulses are at respective points in said delay line at which said output lines are connected, whereby one signal pulse is applied to each output line, each of said selecting networks comprising means for connecting said network to an output line of a receiving network, a delay line, a plurality of output circuits connected at spaced points to said delay line and representing directions to be selected, means connected between said connecting means and said delay line and responsive to directive signals appearing as modulation of a received signal pulse for delaying said received signal pulse for a time period corresponding to the desired direction to be selected and equal to the delay of the point on said delay line corresponding to said direction, means for normally blocking said output circuits, means for producing an auxiliary pulse having the same repetition rate as said signal pulses and at a time different from the times of auxiliary pulses of other selecting networks serving the same directions, and means for utilizing said auxiliary pulse for simultaneously unblocking said output circuits at times corresponding to the times that a delay pulse will pass an output circuit, whereby a delay pulse passing through said delay line will be applied to the desired output circuit.

2,651,678
CODING AND SIGNALING SYSTEM
Paul G. Edwards, Verona, and Alphons V. Wurmser, Mount Bethel, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 19, 1950, Serial No. 201,632
9 Claims. (Cl. 179—15)



1. In a telephone system, a group of subscriber lines, a smaller number of trunk circuits, a switching circuit for connecting any subscriber line of the group to any one of said trunk circuits one at a time, a voice-operated access circuit for giving each line access to said switching circuit, comprising a device per line operating in response to a vocal-interval speech spurt on the respective line, said device in responding to a speech spurt disabling all of the other devices, means operated by the response of a device for seizing an idle trunk circuit and connecting the respective subscriber line thereto, said last means in its operation rendering all of the other devices again operable.

2,651,679
ELECTRIC SIGNALING SYSTEM
George Clifford Hartley, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application February 4, 1948, Serial No. 6,329
In Great Britain February 7, 1947
1 Claim. (Cl. 179—16)



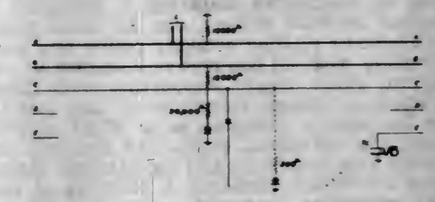
A signalling system for telecommunication systems comprising first and second exchanges, a transmission line connecting said exchanges, a transmitter at said first exchange, a line seizure relay at said first exchange operatively responsive to D. C. or low frequency selective trains of signals originating at said first exchange, relay means in said transmitter controlled by said line seizure relay, circuit means in said transmitter controlled by said relay means operative to transmit selective trains of voice-frequency signals to said second exchange corresponding in time duration to said low frequency signals, means at said first exchange for transmitting a preparatory signal to said second exchange, said preparatory signal being of a different frequency than said selective voice-frequency signals, delay means in said circuit means operative to delay operation of said relay means subsequent to transmission of said preparatory signal, thereby displacing said transmitted selective voice-frequency signals with respect to the corresponding low frequency signals an amount dependent on said delay means, said relay means including means operative to permit the marking of periods between successive transmitted selective signals with said different frequency and means operative to mark the termination of a train of selective signals by a signal of said different frequency, a receiver at said second exchange operable to receive said voice-frequency signals and means in said receiver responsive to predetermined of said voice-frequency signals for retranslating said signals into trains of D. C. selective signals.

2,651,680
DUAL-USE REGISTER SENDER
Frederick Harry Bray, Michael Thain Wilson, Douglas Henry Ormrod, and Stanley George William Johnstone, London, England, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application February 2, 1949, Serial No. 74,222
In Great Britain February 2, 1948
7 Claims. (Cl. 179—18)



1. An automatic telecommunication exchange comprising a register controller, a plurality of registers in said register controller, means under control of a calling line and responsive to a predetermined signal for storing digits of the called party's number in said registers, and means responsive to a predetermined different signal representing a special service call and under control of the calling line for storing digits of the calling party's number in said same registers.

2,651,681
AUTOMATIC SWITCHING SYSTEM
Pierre Charles Berel and Marcel Roger Mauge, Boulogne-Billancourt, France, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application May 11, 1950, Serial No. 161,396
In France May 12, 1949
3 Claims. (Cl. 179—18)



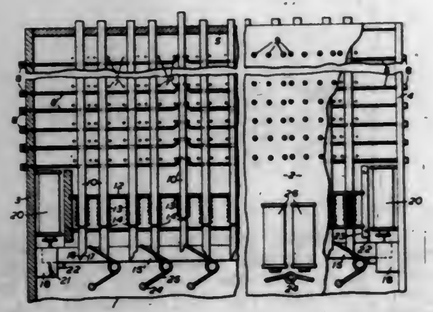
1. An automatic telecommunication exchange system comprising a plurality of subscribers' lines including line circuits having a plurality of conductors but without relays, means for applying a predetermined direct current potential to one of said conductors, which potential is characteristic of a particular class of service to which the individual line is entitled, a plurality of line finder link circuits connected in common to said subscribers' lines, a plurality of registers, means operative upon initiation of a call by a calling subscriber for placing certain of said line finder link circuits under control of a free register, means controlled by said register for causing said line finders to simultaneously hunt for said calling line, means in said register operable upon seizure of said calling line by one line finder for determining the characteristic of said calling line and for preparing said register in accordance with said characteristic to receive dial impulses from said calling subscriber and means controlled by said register for connecting said calling line to a desired called line in response to said dial impulses.

2,651,682

FLAT CROSSBAR SWITCH MECHANISM

Jakob Kruithof, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application May 5, 1949, Serial No. 91,611
In the Netherlands May 18, 1948
2 Claims. (Cl. 179—27.54)



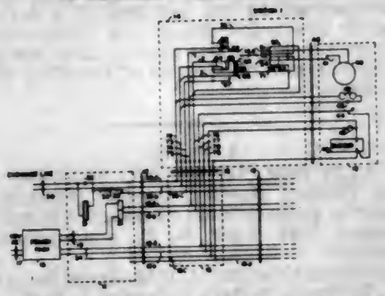
1. A multi-contact switch comprising a first plurality of parallel conductive elements arranged in parallel horizontal planes, a second plurality of parallel conductive elements arranged in parallel vertical planes intersecting said horizontal planes and interspersed between the conductors in each horizontal plane and spaced therefrom to provide a spaced lattice of crossing points between the two pluralities of conductive elements, the conductive elements in the horizontal planes being sufficiently movable at the crossing points to bridge the space between them and the conductive elements in the adjacent vertical planes, means supporting the two pluralities of conductive elements, a plurality of individual movable fingers, one for each group of horizontally aligned crossing points and each cooperating with all conductive elements in one horizontal plane, means supporting each finger for sliding movement transverse to said vertical plane for such a distance as to effect contact between the horizontal conductive elements cooperating with said finger and the adjacent spaced vertical conductive elements, a plurality of vertically extending, rotatable carriages, means mounting said carriages before and between pairs of vertical rows of fingers, a vertical row of extensions mounted on each carriage, one extension for each pair of horizontal rows of fingers, a plurality of means, one common to each horizontal row of fingers, normally spaced from and adapted to actuate said fingers but only through said extensions, means rotating said carriages to move a vertical row of said extensions between all of said finger actuating means and a selected vertical row of fingers, and further means moving one of said finger actuating means toward a horizontal row of fingers, the end of each finger being formed with a cut-out portion to receive a moved finger-actuating means without moving the finger unless an extension on the carriage is interposed, whereby said finger-actuating means will move that finger in the said horizontal row corresponding to the vertical row selected by said carriage, through the extension carried thereby and effect contact between the horizontal conductive elements cooperating with that finger and the adjacent, spaced, vertical conductive elements.

2,651,683

TELEPHONE SUBSET WIRING-PLAN SYSTEM

Wilbur G. Storey, Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard and Supply Company, a corporation of Delaware

Application August 4, 1951, Serial No. 240,336
5 Claims. (Cl. 179—81)



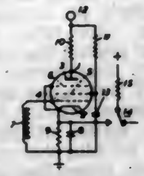
1. In combination, a first and a second common-battery telephone line, a station common to both lines and including a common-battery subscriber telephone set having a hookswitch for closing and opening the common-battery talking path therethrough, the station further including a switching key having a first and a second position corresponding to said lines respectively, contact means in the key for connecting the telephone set to the line corresponding to either position in which the key is placed, a relay connected in circuit with the second line and operable thereover subject to the key being in second position and to the hookswitch being closed, the relay including contact means closed with the operation thereof, the key having other contact means closed dependent on the key being in second position, and a holding bridge for the first line including the said contact means of the relay in series with said other contact means of the key, the respective contact means in the key being so associated in operation that, when the key is being moved from first position to second position, the telephone set remains connected to the first line until the said other contact means of the key have been closed and the telephone set has been connected with the second line, whereby the relay is able to operate over the second line to close a holding bridge for the first line by the time the telephone set is disconnected therefrom.

2,651,684

AUTOMATIC SIGNAL ATTENUATOR

Thomas Frederick Stanley Hargreaves and William Frederick Gould, London, England, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application April 6, 1949, Serial No. 85,862
In Great Britain April 9, 1948
6 Claims. (Cl. 179—84)



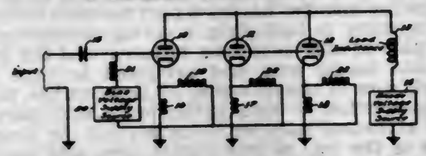
1. In a telecommunication system having a transmission channel and a selective receiving station coupled thereto, an arrangement for automatically attenuating portions of said channel beyond said station in response to predetermined signals sent over said channel to said station, comprising control means in said channel connected beyond and associated with said station in the direction of transmission, said control means being operative to block a portion of said channel beyond said station, circuit means operative to actuate said control means, relay means including a contact connected to said station and operable in response to said predetermined signals, said contact coupled between said control means and said circuit means whereby in response to said predetermined signals, said control means are operated under control of said contact.

2,651,685

BALANCED CIRCUIT FOR RADIO APPARATUS

Nelson B. Tharp, Ellicott City, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 14, 1948, Serial No. 38,696
6 Claims. (Cl. 179—171)



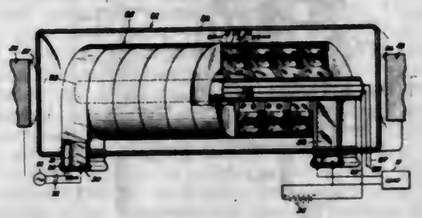
1. An electrical system comprising a plurality of vacuum tubes having at least control grids, cathodes, and anodes; an anode voltage supply source; an output load circuit for said tubes; means connecting the anodes of said tubes through said load circuit to the positive terminal of said source; an independent bias voltage supply source having its negative terminal connected to the control grids of said tubes; resistors connecting said cathodes to the positive terminal of said bias voltage supply source, bias resistors connecting said cathodes to the negative terminal of said anode voltage supply source, and an input circuit connected to said grids.

2,651,686

TRAVELING WAVE AMPLIFIER

André G. Clavier and Etienne C. de Faymoreau, New York, N. Y., assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application March 27, 1947, Serial No. 737,602
7 Claims. (Cl. 179—171)



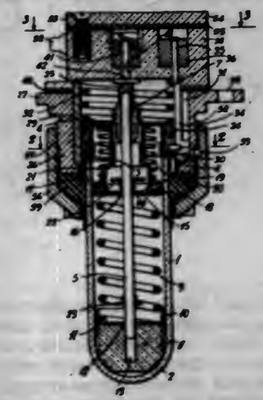
4. A traveling wave amplifier comprising magnetic means for producing a magnetic field, a cathode of elongated form disposed coaxially of said field, a wave guide comprising an inner and an outer conductor disposed in the form of a helix about said cathode whereby the lines of force of said magnetic field are substantially normal to the turns of said wave guide, the side of the outer conductor adjacent said cathode being of open-work construction for the passage of electrons and means for biasing at least one of said conductors positively with respect to said cathode.

2,651,687

ALARM SWITCH DEVICE

Frederick Henry Townsend and Harvey Sydney Hall, Cambridge, England, assignors to Cathodeon Limited, Cambridge, England, a British company

Application December 31, 1951, Serial No. 264,362
In Great Britain October 25, 1951
11 Claims. (Cl. 200—52)



1. An alarm switch device for completing electrical circuits in the event of emergencies comprising an outer casing of frangible material having an elongated tubular form closed at one end, a rod electrode enclosed within said outer casing and extending substantially coaxially of the casing and for substantially the entire length thereof, a coiled electrode surrounding and spaced from said rod electrode, a block of insulating material supported by the closed end of said frangible envelope, means for locating said rod electrode in said block of insulating material out of contact with said coiled electrode, an external contact on said casing, means for connecting said external contact to said coiled electrode, said rod electrode being sealed into but projecting out of said casing, and sealing means for hermetically sealing said casing against the ingress of fluids and gases.

2,651,688

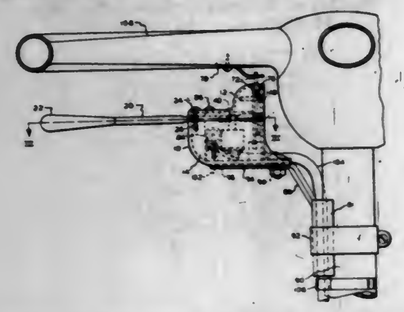
TURN INDICATOR WITH AUTOMATIC CANCELLATION

Cleafe A. Best, Jackson, and Lloyd E. Johnson, Parma, Mich., assignors to Sparks-Withington Company, Jackson, Mich., a corporation of Ohio

Application October 14, 1950, Serial No. 190,235
3 Claims. (Cl. 200—61.34)

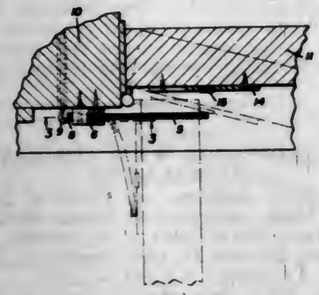
1. A turn indicator switch mechanism adapted to be installed adjacent the steering wheel of an automobile with automatic cancellation performed by the rotation of the steering wheel comprising a rockable member, pivot means about which said member is rocked in opposite directions, a pair of fingers supported on said member for bodily movement therewith and relative movement thereto only as rotational movement about fixed axes; pivot means for said fingers upon said member to provide said fixed axes, stops upon said member, spring means engaging said fingers to rock the same into engagement with said stops, a manually actuated lever for rocking said member having a handle at one

end and a portion at the opposite end engaging said member to rock the same to "right" or "left" positions from a "neutral" position, a pivotal mounting for said lever intermediate its ends for rocking movement thereof about an axis substantially normal to the axis about which said member is rocked by said lever, spring detent means for holding said member in "right," "left" and "neutral" positions, a switch adapted to close and open a pair of turn indicating circuits operatively engaged by said lever to one side of its pivot to be actuated thereby upon rocking



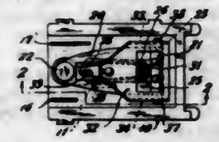
movement of said lever and member, said fingers upon rocking movement of said member into "right" and "left" positions being projected alternately into the path of means rotatable with the steering wheel whereby engagement with said fingers in a direction abutting said stop results in said member being rocked from its "neutral" position and engagement with said finger in the opposite direction results in said fingers rocking on their respective pivots relative to said member to permit the means moving with the wheel to pass without actuation of said member.

2,651,689
DOOR OPERATED SWITCH
Karl Bame, Tiffin, Ohio
Application February 4, 1952, Serial No. 269,787
1 Claim. (Cl. 200—61.78)



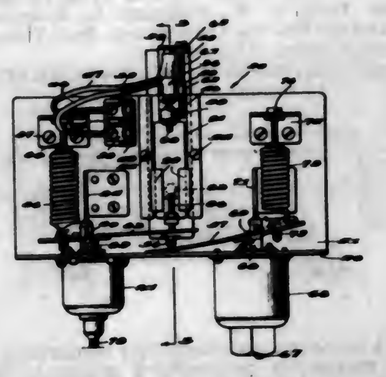
A door actuated switch comprising an insulated contact plate carried by the door, and a pair of resilient elongated contact members attached in spaced relation to each other to a supporting structure and having free end portions spaced from the contact plate when the door is closed and disposed in the path of the contact plate to temporarily bridge the contact members during a predetermined period in both the opening and closing movements of the door, said contact members being placed under tension by the door during opening movement thereof and held in engagement therewith behind the door to urge the door toward its closed position.

2,651,690
ELECTRIC SNAP SWITCH
Estel C. Raney, Delaware, Ohio, assignor to Ranco Incorporated, Columbus, Ohio, a corporation of Ohio
Application June 17, 1950, Serial No. 168,747
2 Claims. (Cl. 200—67)



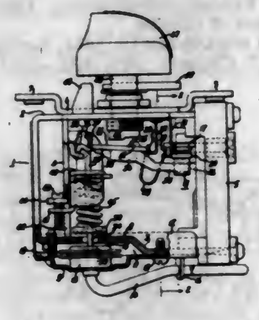
1. In a snap switch, supporting structure, a contact carrying strip supported at one end and adapted to have its opposite end move between two spaced stops, said strip having a central, longitudinally extending opening, a relatively rigid U-shaped toggle arm disposed in said opening and having the legs thereof pivoted at one end on said strip adjacent to said opposite end of said strip, the yoke end of said toggle arm being swingable through the opening in said strip, an actuating member having a part movable through the opening in said strip, a spring interconnecting part of said actuating member and the yoke of said toggle arm and arranged to urge the toggle arm in the direction of its pivot the point of connection of said spring with said part of said actuating member being beyond the pivoted ends of the legs of said toggle arm, said part of the actuating member being movable from one side to the other of a line through the pivot of said toggle arm and the point of connection of said spring with said toggle arm, and means including two spaced stops associated with said toggle arm for limiting swinging of said toggle arm to cause said point of connection of the spring therewith to swing between positions on opposite sides of a plane through the said strip and normal to the direction of movement of said strip.

2,651,691
CONTROL DEVICE FOR REFRIGERATION SYSTEM
Charles W. Coblentz, Alexandria, Va.
Application September 22, 1950, Serial No. 186,254
8 Claims. (Cl. 200—83)



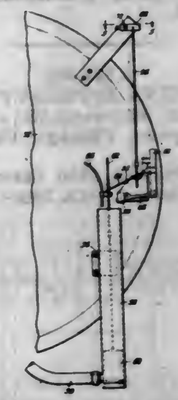
1. In a switch mechanism, a switch device including two contacts one responsive to a magnetic field and movable relative to the other, a vertically movable member carrying said switch device adapted to move downwardly by gravity action, means for engaging and moving said member upwardly and maintaining the switch device in elevated positions against the action of gravity, magnetic actuating means for said switch device for moving one contact relative to the other, a second member movable vertically and downwardly by gravity action carrying said magnetic actuating means along the path of movement of the switch device, and means for engaging and moving the second member upwardly and maintaining the magnetic actuating means in elevated positions against the action of gravity in operative and inoperative positions relative to said switch device.

2,651,692
CONDITION RESPONSIVE ELECTRIC SWITCH MECHANISM
John L. Slonneger, Morrison, Ill., assignor to General Electric Company, a corporation of New York
Application November 19, 1952, Serial No. 321,375
11 Claims. (Cl. 200—83)



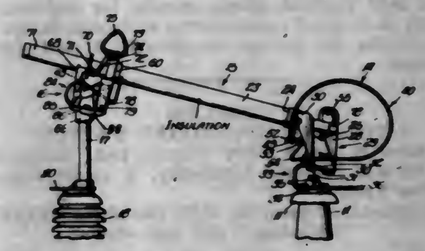
1. A condition responsive electric switch comprising a support, a stationary contact mounted on said support, a movable contact resiliently mounted on said support cooperating with and normally engaging said stationary contact, an operating lever pivotally mounted on said support for movement between a first position and a second position, said operating lever in its second position moving said movable contact to open said contacts, a toggle spring means continually biasing said operating lever toward its first position thereby closing said contacts, said toggle spring being arranged so that a first force is required for deflection to open said contacts and a lower force required to hold it in its deflected position, second spring means biasing said operating lever toward its second position and normally overpowering said toggle spring means thereby to open said contacts, an element movable in response to an external condition arranged to oppose said second spring means whereby the combined forces of said element and said toggle spring means overcome said second spring means in response to a first predetermined external condition thereby to close said contacts and said second spring means overcomes said combined forces in response to a second predetermined external condition thereby to open said contacts, and adjusting means operatively engaging said operating lever and arranged selectively to adjust said first position of said operating lever thereby to adjust the stroke thereof and the force required to deflect said toggle spring means whereby said first predetermined condition to open said contacts is determined.

2,651,693
WATER VOLUME CONTROL
Cornelius G. Vonk, Herrin, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application May 19, 1948, Serial No. 27,960
10 Claims. (Cl. 200—84)



1. A fluid level selector control mechanism for a liquid receptacle such as a washing machine tub comprising, a positionable stop means remotely disposed of said receptacle and selectively manually operable to different positions, and a float actuated electric switch operating mechanism comprising a float, an electric switch, a fulcrum, and means connected to said switch and caused to function as a lever on said stop means and said fulcrum alternately thereby actuating said electric switch, said float being adapted to be in open communication with said liquid receptacle, the operation of said float actuated switch mechanism being responsive to the differential of fluid level in said receptacle and the position of said stop means.

2,651,694
ELECTRIC FUSE SWITCH CONSTRUCTION
Sigurd I. Lindell, Chicago, Ill., assignor to S & C Electric Company, Chicago, Ill., a corporation of Delaware
Application April 26, 1950, Serial No. 158,264
17 Claims. (Cl. 200—114)



1. A fuse arranged to be moved automatically from a generally horizontal closed position to a generally vertical open position, comprising, in combination, horizontally spaced insulating support members, a fuse pivotally mounted on one support member to swing upwardly and latched to the other support member, and spring means reacting between said one support member and said fuse to swing it upwardly on unlatching of the same from said other support member, said spring means being characterized by applying to said fuse a diminishing torque corresponding

generally to and opposing the torque applied to said fuse by gravity and acting principally in a vertical direction on said fuse to swing it from closed to open position whereby the torque exerted by said spring means in opening said fuse decreases generally in the same proportion that the torque exerted by gravity biasing said fuse closed decreases.

2,651,695

CIRCUIT INTERRUPTER

Charles H. Baker, Maywood, Ill., assignor to S & C Electric Company, Chicago, Ill., a corporation of Delaware

Application May 22, 1950, Serial No. 163,511
16 Claims. (Cl. 200—114)



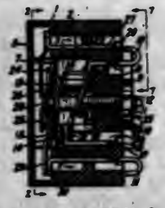
1. In a fuse construction, in combination, a fuse tube, ferrules at the ends of said fuse tube, fusible means within said fuse tube connected to one ferrule, a movable rod-like terminal connected to said fusible means and extending toward the other ferrule, a conducting tube connected at one end to the other ferrule and extending into said fuse tube past said rod-like terminal, a flange extending radially inwardly from the other end of said conducting tube, contact finger means loosely fitting against said flange and biased into contact engagement with said rod-like terminal, and a coil compression spring reacting between said rod-like terminal and said contact finger means for holding the latter in contact engagement with said flange and retracting the former on blowing of said fusible means.

2,651,696

THERMAL OVERLOAD SWITCH

Richard E. Seely, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York

Application April 12, 1952, Serial No. 282,031
5 Claims. (Cl. 200—122)



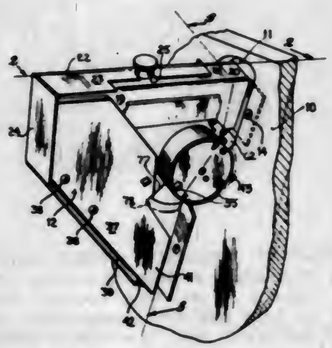
1. A thermal overload switch for plural phase alternating current apparatus comprising a bimetallic snap-acting disc having a plurality of movable contacts mounted on one side thereof, a plurality of stationary contacts respectively cooperating with said movable contacts, said disc having a first stable position with said contacts closed and being adapted to move into a second stable position to open said contacts responsive to a predetermined temperature, a plurality of terminals spaced from said stationary contacts on the side thereof remote from said one side of said disc, a plurality of heating reistance coils respectively interconnecting said stationary contacts and said terminals for thermally affecting said disc, and another heating resistance having one end connected to said disc and its other end connected to another terminal, said other heating resistance being arranged in heat transfer relationship with the other side of said disc.

2,651,697

SWITCH MECHANISM FOR COIN SELECTORS OF THE GRAVITY-FEED TYPE

William J. Summers, Chicago, Ill., assignor to General Patent Corporation, Chicago, Ill., a corporation of Illinois

Application September 15, 1951, Serial No. 246,857
7 Claims. (Cl. 200—153)



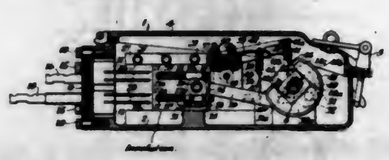
1. A switch construction for the purposes herein described comprising an enclosure including a ring-shaped body and side plates on opposite sides of said body, said side plates each having opposed elongated open slots formed therein and said body having laterally extending pins for frictional engagement in said slots, a disc rotatably arranged in said body, a shaft extending transversely of said body and having its ends journalled in said side plates and rotatably supporting said disc within said body, said body provided with notches formed on opposite peripheral edges thereof in confronting relation with respect to each other, a contact stud extending transversely through said disc at one side of said shaft, contact fingers carried by said side plates on opposite sides of said disc and in confronting relation to each other with corresponding end portions in the path of said contact studs and having their opposite free end portion extending through said notches formed in said body, spring means arranged in said body and having one end bearing against said body and an opposite end connected to said disc, for normally urging said disc to a position with the contact stud spaced from said contact finger, and an actuating arm carried by said shaft and effective to rotate said disc against said spring means when engaged by a moving object.

2,651,698

ELECTRIC CIRCUIT CONTROLLER

William R. Gracey, Jr., Swissvale, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application December 27, 1948, Serial No. 67,264
8 Claims. (Cl. 200—163)



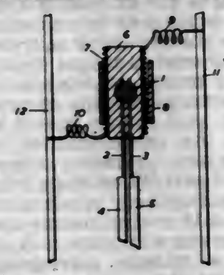
3. An electric circuit controller comprising fixed and movable contact structures, a support for said movable contact structure, means loosely connecting said movable structure to its support to permit limited lateral movement of said one structure to compensate for misalignment between said contact structures, and a spring located in the path of movement of said movable contact structure so as to be engaged thereby upon disengagement of said contacts, said spring being effective to prevent rattling of said movable contact structure in its loose support when the contact structures are disengaged.

2,651,699

THERMOSENSITIVE RESISTANCE ELEMENT

Bent Bulow Jacobsen, Charles Trever Daly, David Lane Thomas, Henry Welfson, Stanley Carden Shepard, and David Green, London, England, assignors to International Standard Electric Corporation, New York, N. Y.

Application January 25, 1952, Serial No. 268,224
In Great Britain January 30, 1951
1 Claim. (Cl. 201—63)



An indirectly heated thermistor comprising, in an evacuated envelope, a thermistor body consisting of a bead of thermosensitive resistance material, a pair of terminal leads extending parallel to each other in the same direction from one end of the bead, a heating coil enclosing said thermistor body and of such length as to enclose a section of said leads, and terminal wires for the said heating coil, each of which wires is coiled in such manner as to provide a choke for reducing the rate of conduction of heat along the said wire.

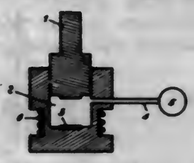
2,651,700

MANUFACTURING PROCESS OF CADMIUM SULFIDE, SELENIDE, TELLURIDE PHOTOCONDUCTING CELLS

François F. Gans, Paris, France

Application November 10, 1952, Serial No. 319,650
In France November 24, 1951
5 Claims. (Cl. 201—63)

1. A process for the production of photoelectric cells containing a photoconducting material selected from the class consisting of cadmium sulfide, cadmium selenide and cadmium telluride comprising mixing said photoconducting material with activators therefor, grinding the mixture to obtain a powder having a particle diameter



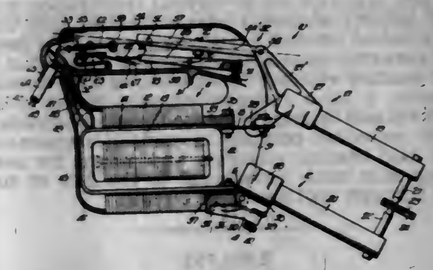
of not greater than about 5 μ, and compressing and heating said powder under a pressure of about 2 tons per square centimeter and a temperature of about 550° C. to obtain said powder in tablet form, said tablet adapted to be provided with conducting electrodes.

2,651,701

PORTABLE SPOT WELDER

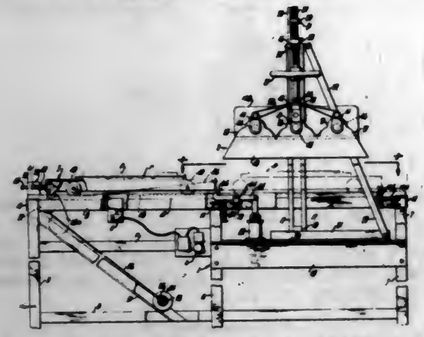
Arthur Oliver Backen, Chicago, Ill.

Application April 17, 1951, Serial No. 221,393
3 Claims. (Cl. 219—4)



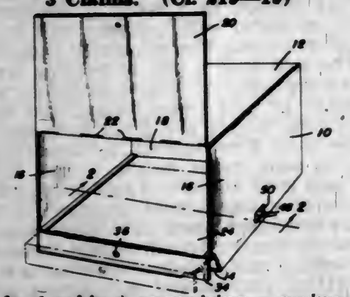
1. A portable manually operable spot welder comprising, in combination, a transformer having a core formed by a stack of laminations of magnetic material with primary and secondary windings extending therethrough, frame means secured to said core, a pair of welding jaws connected for energization to said secondary winding and carried by said frame means and mounted for movement toward and away from each other to engage work therebetween, an operating lever pivoted on said frame means, a link interconnecting said lever and one of said jaws and therewith forming a toggle joint arranged to be substantially extended when said jaws engage the work, switch means carried by said frame means for connecting said primary winding to a source of alternating current and including a pivotally mounted contact member and a cooperating contact member, a control lever pivoted intermediate its ends on said frame means with one end arranged to swing past the pivot axis of said pivotally mounted contact member and the other end operatively connected to said operating lever, a coil tension spring interconnecting said one end of said control lever and said pivotally mounted contact member for shifting the same with a snap action into and out of engagement with said cooperating contact member on swinging movement of said control lever, and a spring cooperating with said control lever to bias the same to swing in a direction opposite to that in which it is swung by said operating lever.

2,651,702
BURNING-IN MACHINE
William F. Burke and Otis F. Simpson, Athens, Ohio, assignors to The McBee Company, Athens, Ohio, a corporation
Application December 13, 1949, Serial No. 132,672
7 Claims. (Cl. 219—19)



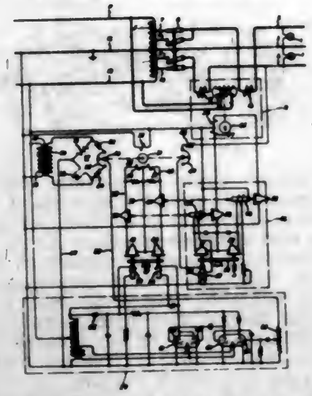
1. A machine comprising: a frame; a horizontal track supported by said frame; a heating element adjustably mounted on said frame over one end of said track; means mounted on said frame for adjusting the vertical position of said heating element relative to said track; a carriage mounted on said track for movement thereon into and out of vertical registration with said heating element; means urging said carriage out of vertical registration with said heating element; an electrical circuit connected to said heating element for energizing said heating element; a latch mounted on said frame in the path of said carriage for holding said carriage in its operative position in vertical registration with said heating element; and means for activating said latch in response to the flow of current through said electrical circuit.

2,651,703
CABINET
James I. Atkins, Hollywood, Fla.
Application May 2, 1952, Serial No. 285,659
3 Claims. (Cl. 219—19)



2. A food cabinet comprising a casing including side walls, a top wall, a bottom wall, a front door and a food storage chamber therein, a horizontal partition extending between said side walls in spaced relation above said bottom wall and forming a floor for said storage chamber, an electrical heater connected to the underside of said partition, supports on said side walls, said partition being slidably mounted on said supports, said cabinet having an opening in a side wall below said partition for passage of electrical cables to said heater, said partition having a downturned flange at the front thereof closing the opening between said bottom wall and said partition.

2,651,704
TEMPERATURE RESPONSIVE SYSTEM
Roger A. Prior, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application September 24, 1951, Serial No. 247,958
3 Claims. (Cl. 219—20)



1. A temperature responsive and compensating system for an electrically-heated installation comprising a Wheatstone bridge, a temperature-sensitive resistance element in said bridge, said temperature-sensitive resistance element being subjected to the ambient temperature which is to be compensated, electrical heating means in said installation whose ambient temperature is being measured, said temperature-sensitive resistance element being disposed so as to be substantially unaffected by the heat given off by said electrical heating means, a source of electrical power connected to said electrical heating means, voltage regulating means for varying the voltage across said electrical heating means, a control means responsive to the voltage across said electrical heating means, said control means causing said voltage regulating means to maintain the voltage across said electrical heating means at a predetermined level, said control means being adjustable to vary the predetermined voltage level which it maintains, a motor means responsive to unbalance of said Wheatstone bridge, said motor means simultaneously rebalancing said bridge and adjusting said control means upon change of ambient temperature to cause said control means to maintain a voltage corresponding to the changed ambient temperature.

2,651,705
HEATER ASSEMBLY FOR ELECTRIC DRIERS
George S. Clemens, Evanston, Ill., assignor to National Dryer Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Original application March 1, 1949, Serial No. 79,051. Divided and this application February 24, 1953, Serial No. 338,289
6 Claims. (Cl. 219—39)

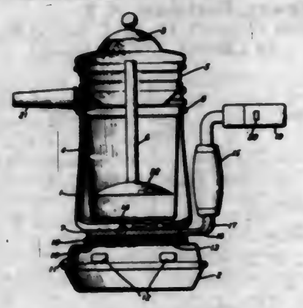
1. In a forced-air drier wherein air is heated in a duct while passing therethrough, a housing providing a discharge opening, a duct within said housing and communicating with said opening, said duct being provided adjacent its outer end with a laterally-extending annular recess, intersecting support members mounted in said duct and having inclined outer edges engaging the recess of said duct, and a heating coil wound upon said support members and forming a spiral cone having spaced convolutions, said coil having its outermost convolutions lying adjacent said

annular recess, whereby air passing along the side walls of the duct may pass through and



laterally of said outermost convolutions for the effective heating of such air.

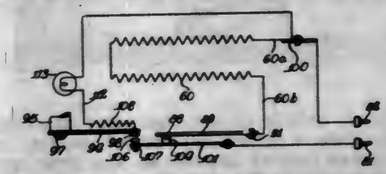
2,651,706
PORTABLE UTENSIL FOR FOOD AND BEVERAGE PREPARATION BY HEAT
Theodor Stiebel, Helsminden, Weser, Germany
Application February 16, 1951, Serial No. 211,332
2 Claims. (Cl. 219—43)



1. A portable utensil for the preparation of solid and liquid food by heat comprising a main container having an open top, a flat bottom and a cylindrical wall tapering outwardly from the top to the bottom, an electrical heating element disposed adjacent and outside the bottom, a ring depending from and integral with the bottom of the main container and encircling the heating element, an inverted dish-shaped auxiliary container affixed to the ring and having a diameter at its open end greater than that of the bottom of the main container, the dish-shaped auxiliary container being relatively shallow compared to the main container, a cover adapted to be fitted into the open top of the main container, and a handle attached to the ring having an upper portion at substantially right angles to the axis of the main container, the upper face of the upper portion being coplanar with the open top of the main container, whereby on positioning the utensil with the main container lowermost and the cover removed, the said face assists in maintaining the stability of the utensil in said position.

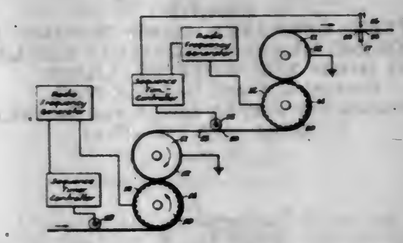
2,651,707
AUTOMATIC COFFEE MAKER
Ivar Jepsen, Oak Park, Ill., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois
Application December 31, 1947, Serial No. 794,969
23 Claims. (Cl. 219—44)

18. A coffee maker comprising a liquid heating vessel, a main heating element associated with said vessel for heating said vessel and the liquid contained therein during a coffee making operation, a first switch for controlling the flow of current through said heating element comprising a pair of normally closed contacts, a bimetallic element responsive to the temperature of said vessel and adapted upon sufficient heating thereof to cause separation of said contacts, an auxiliary heating element disposed in direct heat transfer relationship with said bimetallic element, a second switch comprising a pair of contacts for controlling the energization of said



auxiliary heating element, means responsive to a predetermined deflection of said bimetallic element in response to heating of said vessel for operating one of said switches effectively to energize said auxiliary heating element, and means responsive to a slightly greater heating of said bimetallic element after said predetermined deflection for operating the other of said switches effectively to deenergize said main heating element.

2,651,708
ROTARY BAR SEALER FOR PLASTIC FILMS
Robert S. Mason, Joseph P. Graham, and Harold L. Hearns, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
Application December 8, 1951, Serial No. 260,606
4 Claims. (Cl. 219—47)



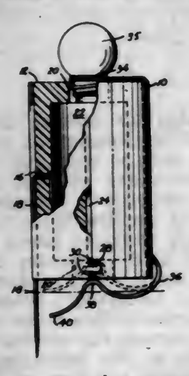
1. In apparatus for making transverse linear welds in plural thicknesses of organic thermoplastic film, a pair of coacting rotatable cylindrical metal electrodes, at least one of which is longitudinally rabbeted to provide on its surface a multiplicity of narrow lands and intervening grooves regularly disposed about the cylindrical surface, one of said electrodes being grounded and the other being connected electrically to a radio frequency generator; means for feeding organic thermoplastic film to be welded between the electrodes; means for driving the two cylindrical electrodes at the same peripheral speed; means to interrupt rotation of both electrodes after a predetermined angle of rotation while one of the transverse lands on the rabbeted cylinder is in pressure relationship through film to be welded with the other cylinder, said angle of rotation between stopping points not being evenly divisible into 360°; means for actuating the radio frequency generator only when rotation of the electrodes is interrupted; and time-actuated means for resuming rotation of the electrodes after interposed films have been welded in the high frequency field under the pressure existing between the electrodes.

2,651,709
SELF-ILLUMINATING COSMETIC APPLICATOR
Richard S. Ross, Elkins Park, and Robert A. Weiner, Philadelphia, Pa.
Application September 12, 1950, Serial No. 184,444
2 Claims. (Cl. 240—6.45)



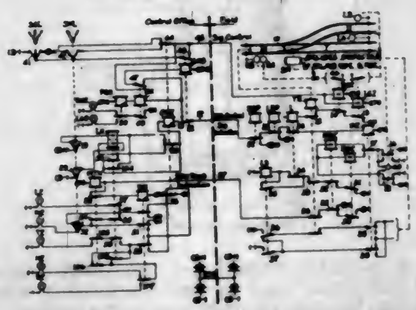
1. In an article of the character described, in combination, a main cylindrical casing having an internal spiral groove in the rear portion thereof, a carrier for cosmetic or the like slidably fitted in the forward portion of said casing, said carrier having a rearwardly extending member terminating in a lateral pin engageable in said groove, a longitudinally slotted internal shell rotatably fitted in the rear portion of said casing, said pin projecting through said longitudinally slotted shell whereby upon rotation of said shell relatively to said casing the interengaged pin and groove effect axial shifting of the carrier in said casing, a flashlight battery and bulb assembly non-rotatably fitted in said internal shell with the bulb arranged to project light peripherally about and forwardly of said carrier, and a light transmitting plastic member extending longitudinally of said carrier, said member being adapted to receive light from said flashlight bulb for conductance and projection thereof forwardly of said carrier.

2,651,710
BATTERY OPERATED LAMP HAVING ANCHORING MEANS TO POSITION THE LAMP AND HOLD THE SWITCH CLOSED
Herbert G. Clark, Bellevue, Wash.
Application February 20, 1950, Serial No. 145,158
3 Claims. (Cl. 240—10.6)



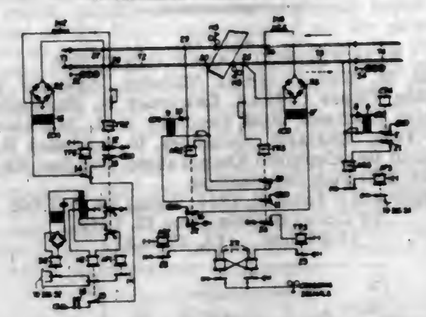
1. A battery operated lamp comprising a normally upright dry cell holding casing having apertured ends, a lamp socket received in said aperture in the upper end of said casing operable to hold the terminal end of a lamp bulb in contact with the upper end of a dry cell received in said casing, a switch wire having one end secured to said lamp bulb socket, its central portion extending from the socket end of said casing lengthwise thereof beyond the lower end of the casing, and the end portion of said wire remote from its socket-connected end including an upwardly bent portion in registry with the bottom end aperture of said casing, a pressure-receiving portion inclined from said upwardly bent portion downwardly and engageable with a surface beneath said casing to hold said upwardly bent wire portion in contact with a dry cell in said casing, and said wire portion between said upwardly bent portion and said central portion being curved and resiliently biased in a direction to swing said upwardly bent wire portion downwardly from said cell end when pressure is removed from the lower end of said wire, and holding means carried by said casing and operable to secure said casing relative to such surface in position to maintain pressure thereof against said pressure receiving wire portion to hold the upwardly bent portion thereof in dry cell contacting position.

2,651,711
CENTRALIZED TRAFFIC CONTROLLING SYSTEM FOR RAILROADS
George J. Johanek and Thomas J. Judge, Rochester, N. Y., assignors to General Railway Signal Company, Rochester, N. Y.
Application January 14, 1947, Serial No. 721,902
10 Claims. (Cl. 246—3)



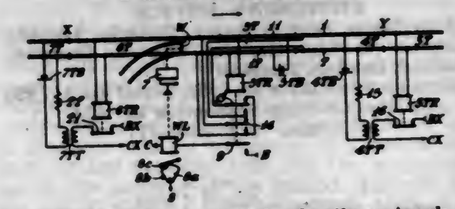
1. A system for the control from a control office of a power switch and signals in the field comprising in combination, manually operable means for the respective switch and signals for the designation of respective desired switch positions and clear or stop conditions of the respective signals, electro-responsive means in the field distinctively responsive to its polarity of energization for governing the power operation of said track switch to a corresponding normal or reverse position, a polarized relay at the control office, a polarized control circuit including said polarized relay for energizing said electro-responsive means wherein the polarity of energization is governed by the switch position designated by the actuation of said manually operable means for the control of said track switch, and switch locking means including a lock relay effective to open said control circuit in response to the designation by the operation of said manually operable means of a signal to be cleared and thereby prevent the subsequent designation of a different switch position from being effective to operate said track switch, said locking means being rendered effective by the actuation of said locking relay immediately in response to the designation of a signal to be cleared irrespective of the position of said track switch at that time, and said locking means being rendered effective only provided that said control circuit when last closed has been energized with a polarity corresponding to the switch position last designated as indicated by the position of said polarized relay.

2,651,712
CODED TRACK CIRCUIT WITH MEANS TO NEUTRALIZE THE INDUCTIVE KICKBACK FROM TRACK RAILS
Marcian A. Scheg, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application December 22, 1949, Serial No. 134,407
5 Claims. (Cl. 246—34)



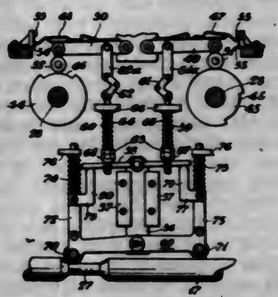
1. In a coded track circuit organization for railroads, a section of railway track having driven code pulses applied thereto at one end of a rate dependent upon traffic conditions, a polarized track relay permanently connected across the track rails at the other end, a rectifier unit, an inductive reactor connected in a circuit including said rectifier across the track rails in multiple with said track relay at said other end, circuit means governed by said track relay for applying inverse code pulses across said rectifier to transmit them through said inductive reactor and said track rails in series, and inverse code receiving means at said one end of said track section.

2,651,713
MEANS FOR SUPPLYING RAILWAY CAB SIGNALING ENERGY THROUGH SHORT RAILWAY TRACK CIRCUITS
Frank B. Florencourt, Arlington, Mass., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application July 2, 1948, Serial No. 36,722
1 Claim. (Cl. 246—63)



In combination, a stretch of railway track over which railway vehicles are operated, equipped with signaling apparatus including a receiver responsive to alternating current in the track rails, insulated rail joints dividing said stretch into at least a first, a second and a third track section through which said vehicles move in the order named, a first track circuit including a source of electrical energy connected to the rails at the exit end of the third section and a first track relay connected to the rails at the entrance end of the first section, means at the exit end of the third section for supplying alternating current to the rails thereof for the control of a vehicle in said stretch, a pair of wires extending closely adjacent the rails of the second section for connecting the rails of the first section to the rails of the third section to complete said track circuit when the stretch is unoccupied and to complete a circuit for said alternating current through the wheels and axles of a vehicle in said first section, a second track circuit including a source of current, the rails of the second section and a second track relay, circuit controlling means governed by the second track relay and effective when the second section is occupied to connect the wires of said pair together at the entrance end of the second section to complete a circuit for said alternating current when a vehicle occupies said second section even though said first section is vacated, the alternating current flowing in said pair of wires being effective to energize said receiver while said vehicle is traversing said second section, said circuit controlling means being effective when said second section is occupied to also disconnect said wires from the rails of the first section to effect the release of said first track relay, traffic controlling means governed by said second track relay, and means governed by said first track relay for supplying alternating current to the track rails in the rear of the entrance end of said first section for the control of a vehicle approaching said stretch.

2,651,714
SELECTIVE POINT DETECTOR MECHANISM
William M. Poole, Aurora, Ill., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application April 18, 1950, Serial No. 156,620
3 Claims. (Cl. 246—253)



1. A point detector for switch operating apparatus of the type having a slide bar for locking the switch points in their two extreme positions, a shaft operatively connected with said slide bar for rotation thereby, two cams on said shaft, a first contact actuating member cooperating with the first of said cams adapted to be moved to a first contact actuating position when said switch points are locked in their first position and to a second contact actuating position when said switch points are not in their first position and a second contact actuating member cooperating with the second of said cams adapted to be moved to a first contact actuating position when said switch points are locked in their second position and to a second contact actuating position when said switch points are not in their second position, comprising a point detector rod movable by said switch points to a first position when said switch points are in their first position and to a second position when said switch points are in their second position, a recess in said point detector rod, a rocker arm pivoted intermediate its ends and carrying a first and second roller adapted to ride on the periphery of said point detector rod, said first roller entering the point detector rod recess when and only when said point detector rod is in its first po-

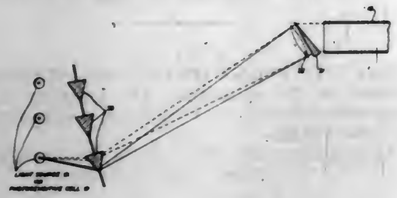
sition, said second roller entering the point detector rod recess when and only when said point detector rod is in its second position; means connected to said rocker arm on one side of its pivot point and cooperating with said first contact actuating member to move and hold only said first contact actuating member in its second contact actuating position whenever said first roller is out of said point detector rod recess, and a second means connected to said rocker arm on the other side of its pivot point and cooperating with said second contact actuating member to move and hold only said second contact actuating member in its second contact actuating position whenever said second roller is out of said point detector rod recess.

2,651,715

CHANNEL SEPARATION LIGHT FILTER

Marion E. Hines, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 29, 1949, Serial No. 135,770
5 Claims. (Cl. 250—7)



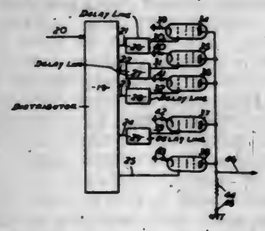
1. A communication system comprising a plurality of light beams of non-overlapping component bands in the wavelength spectrum, means for modulating said light beams associated therewith, means for combining said beams into a single beam, an optical cable for the transmission of said beam, means at the end of said cable for separating out said component bands comprising a primary prism having a predetermined angular dispersion for dispersing said light into a spectrum band, a plurality of prisms having a greater angular dispersion than and oriented oppositely with respect to said primary prism for recombining portions of said spectrum band into a plurality of beams of said component bands.

2,651,716

PULSE CODE MODULATION DEMODULATOR

Henri Feissel, Paris, France, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application October 23, 1948, Serial No. 56,243
In France November 8, 1947
3 Claims. (Cl. 250—27)



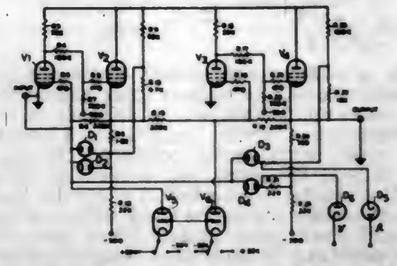
1. An electrical translator for converting sequentially timed pulse code groups to corresponding amplitude modulated pulses comprising delay means for the individual pulses of said code group to cause said individual pulses to be equally timed, a combining circuit, said combining circuit comprising a plurality of amplifiers of different gains for adjusting the amplitudes of said individual pulses in accordance with a predetermined code, means for applying said equally timed pulses to said combining circuit and means for adding together said pulses at the outputs of said amplifiers.

2,651,717

ELECTRONIC VALVE CIRCUITS

Albert M. Uttley, Great Malvern, Spencer W. Noble, Upper Colwall, Lawrence H. Bannister, Great Malvern, and Geoffrey Ord, Stockton-on-Tees, England, assignors to National Research Development Corporation, London, England, a British corporation

Application June 12, 1950, Serial No. 167,662
In Great Britain June 22, 1949
13 Claims. (Cl. 250—27)



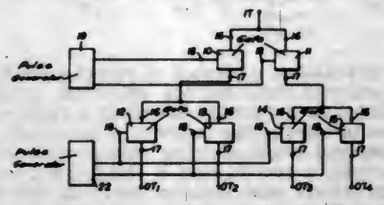
1. An electronic trigger circuit having at least three stable conditions of operation comprising an input terminal, an output terminal, a direct coupled linear amplifier channel connected between said input terminal and said output terminal, two positive feedback channels connected across at least part of said amplifier channel and inhibiting means connected in each of said positive feedback channels to prevent their operation when the amplifier channel output lies between associated threshold levels which lie one on each side of a datum output level.

2,651,718

SWITCHING DEVICE

Maurice Moise Levy, Ottawa, Ontario, Canada, assignor to The General Electric Company Limited, London, England

Application September 19, 1951, Serial No. 247,233
In Great Britain September 22, 1950
6 Claims. (Cl. 250—27)



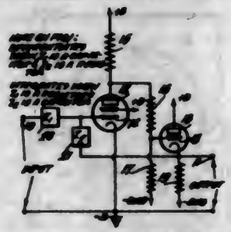
1. An automatic switching device for connecting a main input terminal to any one of a plurality of main output terminals in response to switching pulses applied to said input terminal, comprising means for generating a plurality of groups of recurring switching pulses, the pulses in each group having different instants of occurrence and the instants of occurrence of the pulses in different groups being different from one another, selector apparatus, a main input terminal, means connecting said selector apparatus between said generating means and said main input terminal to select one of said recurring switching pulses from each of said groups for application to said main input terminal, first and second banks of gate devices, each said bank having a plurality of gate devices therein, and each of said gate devices having an input terminal, an output terminal and a control pulse terminal, means connecting said main input terminal to the input terminals of all the gate devices in said first bank, means to apply the pulses of said first group to the control terminals of the gate devices respectively in said first bank, means connecting the output terminals of different ones of the gates in said first bank to the input terminals of different sets of the gate devices in said second bank, means to apply the control pulses in a second of said groups to the control terminals of the gate devices respectively in each said set in said second bank, and means connecting the outputs of the gate devices in said second bank to said main output terminals.

2,651,719

CIRCUITS FOR MODIFYING POTENTIALS

Eric Lawrence Casling White, Iver, England, assignor to Electric and Musical Industries, Limited, a British corporation

Application November 28, 1945, Serial No. 631,436
In Great Britain January 12, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires January 12, 1964
1 Claim. (Cl. 250—27)



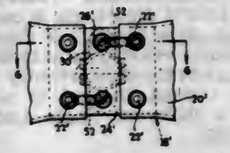
A wave shaping circuit for changing the wave shape of an applied voltage, said circuit comprising an amplifier tube having a control electrode, a cathode and an anode, an anode impedance unit through which a positive operating potential is applied to said anode, a cathode follower tube having a control electrode, a cathode and an anode, an output impedance unit in the cathode circuit of said cathode follower tube, means for coupling the anode of said amplifier tube to the control electrode of said cathode follower tube so that the applied voltage at the control electrode of the amplifier tube and the output voltage at the cathode of the cathode follower tube are out of phase, a first impedance unit of one electrical nature having one end connected to the control electrode of said amplifier tube, said applied voltage being applied to the other end of said first impedance unit, a second impedance unit of a different electrical nature connected between the cathode of said cathode follower tube and the control electrode of said amplifier tube whereby there is degenerative feedback, and means for taking the reshaped wave off the output impedance unit of said cathode follower tube, wherein said first impedance unit has an impedance that is large compared with the impedance at the control electrode of said amplifier tube, and wherein the first impedance unit is a resistor and the second impedance unit is a capacitor whereby the wave shaping circuit acts as an integrating circuit.

2,651,720

ANTENNA HAVING CONCEALED LIGHTNING ARRESTER

Edward Finkel, Brooklyn, N. Y., assignor to J. F. D. Manufacturing Co., Inc., Brooklyn, N. Y., a corporation of New York

Application March 13, 1950, Serial No. 149,246
3 Claims. (Cl. 250—33.65)



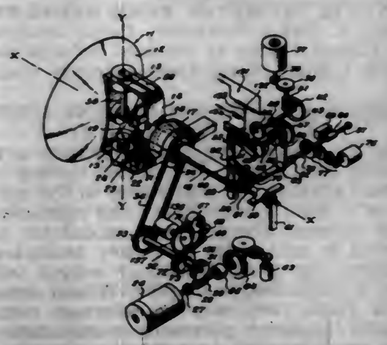
1. In a high frequency television or frequency modulation antenna receiver installation which includes an electrically conductive mast and a rigid metallic driven element constituting at least two spaced members, a unitary device comprising a support for said driven element, said support including a rigid block of electrically non-conductive material, a pair of electrically conductive means detachably securing the members of said driven element to said block in mutually spaced relationship, an electrically conductive crosspiece adapted to be detachably secured to the mast in electrical connection therewith, and means securing the crosspiece to the block in spaced relationship to the members, said support having a slot opening on the external surface thereof; a lightning arrester disposed in the slot in said support, means closing the slot and covering the lightning arrester disposed therein, said lightning arrester including a pair of carbon resistors; and means electrically connecting one end of one of said resistors to one of said member-securing means and one end of the other of said resistors to the other member-securing means, and means electrically connecting the other ends of both of said resistors to said crosspiece.

2,651,721

ANTENNA APPARATUS

Stanley L. Bergey, Hempstead, and James A. Nottingham, Hicksville, N. Y., assignors to The Sperry Corporation, a corporation of Delaware

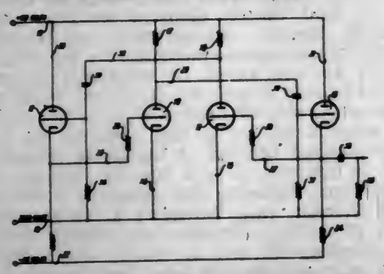
Original application March 22, 1946, Serial No. 656,226, now Patent No. 2,544,648, dated March 13, 1951. Divided and this application December 19, 1950, Serial No. 201,584
8 Claims. (Cl. 250—33.65)



4. Periodically moving directive antenna apparatus for operation in wide-range or narrow-range oscillatory scan comprising a directive antenna having an axis of directivity, bearing means supporting said antenna for rotation

about an axis transverse to said axis of directivity, a constant speed motor energized to provide continuous rotation only in one given direction, motion transmitting mechanism connected in driving relation to said antenna and in driven relation to said constant speed motor, said mechanism comprising means for changing the continuous rotary movement of said constant speed motor into reciprocating rotary movement whereby said axis of directivity is oscillated about said transverse axis through a given angle and at a given angular velocity, and means connected to said mechanism for concurrently changing the reciprocatory output thereof to an oscillation having both a different angle and a different angular velocity.

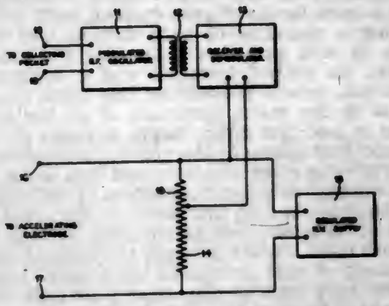
2,651,722
ELECTRONIC MULTIVIBRATOR
Carl A. Bergfors, Yonkers, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 29, 1948, Serial No. 67,886
4 Claims. (Cl. 250—36)



1. A multivibrator including means for applying operating voltages thereto, first and second multivibrator tubes, alternately automatically conductive and non-conductive and vice versa, a third tube operated as a cathode follower, a fourth tube operated as a cathode follower, a capacitor connected between the plate of the first tube and the control grid of the third tube, a capacitor connected between the plate of the second tube and the control grid of the fourth tube, a connection from the cathode of the third tube to the control grid of the second tube, and a connection from the cathode of the fourth tube to the control grid of the first tube.

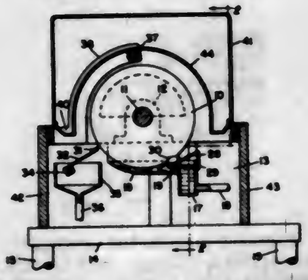
2,651,723
MASS SPECTROMETER BEAM REGULATOR
William R. Baker, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application June 28, 1946, Serial No. 679,953
4 Claims. (Cl. 250—41.9)

4. An ion beam regulator comprising a radio frequency oscillator, a modulator having input terminals adapted for connection to the ion collector of a mass spectrometer and responsive to the ion current thereto, said modulator being connected to said radio frequency oscillator for modulating the radio frequency output voltage thereof, a radio frequency receiver and demodulator, a radio frequency transformer coupling said radio frequency generator to said radio frequency receiver and demodulator whereby the output of said demodulator corresponds to the output of said modulator, a high voltage source, a voltage divider connected in shunt across said high voltage source, and electrical connections between said demodulator output and said voltage divider for impressing said demodulator output voltage across a portion of said voltage divider, said voltage divider having end terminals



adapted for connection to the accelerating electrodes of a mass spectrometer to regulate the voltage thereof in accordance with the magnitude of the ion current to said modulator.

2,651,724
MACHINE FOR IRRADIATING LIQUIDS
Victor C. Hall, Media, Pa., assignor to Merck & Co., Inc., a corporation of New Jersey
Original application November 3, 1948, Serial No. 58,086. Divided and this application April 18, 1951, Serial No. 221,680
4 Claims. (Cl. 250—49)



1. An apparatus for the sterilization of liquids which comprises a drum, means mounting the drum for rotation, a feed pan disposed beneath the drum for applying liquid to be treated to the surface of the drum, means frictionally bearing upon the drum for removing the applied liquid from the end portions of the surface of the drum so that the liquid is confined to a central zone thereof, means for removing the liquid from the drum at a circumferential distance therefrom and a source of irradiation to emanate ultraviolet light to the liquid during its passage between the applying and the removal means.

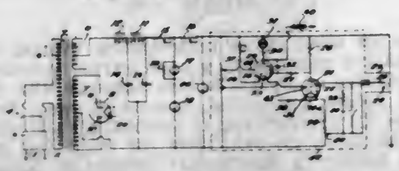
2,651,725
X-RAY CASSETTE HOLDER AND CLAMPING DEVICE
Alice Margaret McFarland, Cincinnati, Ohio
Application March 24, 1951, Serial No. 217,344
3 Claims. (Cl. 250—58)

1. In combination with an operating table, a substantially horizontal arm pivotable with respect to said table about a vertical axis, a second arm, means for clamping said second and first arms together in any position of angular adjustment and at any point on either of said arms, a third arm, means for clamping said third and second arms together in any position of angular adjustment and at any point on either of said third or second arms, and an X-ray cassette



holder on an end of said third arm, for the purpose described.

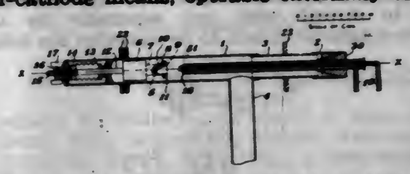
2,651,726
IONIZATION CHAMBER CIRCUIT
Darol K. Froman, Santa Fe, N. Mex., William H. Hinch, Denver, Colo., and Richard J. Watts, Santa Fe, N. Mex., assignors to the United States of America as represented by the United States Atomic Energy Commission
Application February 11, 1946, Serial No. 646,947
1 Claim. (Cl. 250—83.6)



Radiation-measuring apparatus comprising, in combination, a single source of regulated direct voltage having positive and negative terminals, input and output pentode vacuum tubes having filamentary cathodes, plate load resistors connecting the plates of said vacuum tubes, respectively, to the positive terminal of the voltage source, a direct current meter in series with the plate load resistor of the output tube, a series circuit between the positive and negative terminals of the voltage supply comprising the filaments of the tubes and a variably tapped resistance connecting the filament of the input tube to the negative terminal of the voltage supply, an ionization chamber connected between the suppressor grid of the input tube and the positive terminal of the voltage supply, a high-value resistance connected between the tap on the first-mentioned resistance and the suppressor grid of the input tube, a manually operable shorting switch connected in parallel with the high-value resistance, a direct-voltage coupling from the plate of the input tube to the first grid of the output tube, and means for applying operating potentials to the screen grids of said tubes from said voltage supply.

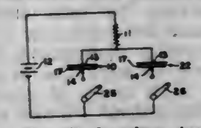
2,651,727
X-RAY TUBE
Werner Ehrenberg, Hayes, and Walter Eric Spear, London, England
Application April 7, 1950, Serial No. 154,562
In Great Britain March 22, 1950
6 Claims. (Cl. 250—93)

1. A fine focus X-ray tube comprising an envelope, a cathode, an anti-cathode, an electrostatic focussing lens system, said lens system including a first cylindrical electrode of relatively small diameter co-axially surrounding said cathode and having an apertured diaphragm substantially in the plane of the effective emissive area of said cathode, an extension cylindrical electrode of relatively small diameter co-axial with and conductively connected with said first cylindrical electrode on the anti-cathode side thereof, and a third cylindrical electrode of relatively large diameter co-axial with the two other cylindrical electrodes and extending at least over the whole length of the discharge path from cathode to anti-cathode means, operable externally of said



envelope for adjusting the position of said cathode and said electrostatic lens system as a unit longitudinally along the axis of said envelope, and means for applying a potential of the order of kilovolts between the cathode and anti-cathode and a potential not exceeding the order of tens of volts between the cathode and the electrostatic lens system.

2,651,728
SEMICONDUCTOR TRIGGER CIRCUIT
Marion Loren Wood, Highland, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application July 2, 1951, Serial No. 234,837
11 Claims. (Cl. 307—88)

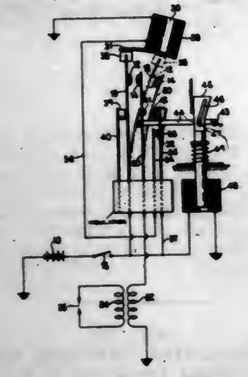


8. A trigger circuit having two stable states of equilibrium comprising a first crystal triode including a first collector electrode, a first emitter electrode, a first base electrode and a first semi-conducting element, means for disposing said electrodes in operating relationship with said element, a source of operating potential having positive and negative terminals, a first impedance network including a resistor and capacitor in parallel, means for coupling said collecter to said negative terminal through said network, a first resistor means for coupling said base electrode to said emitter, a second crystal triode having a second collector electrode, a second emitter electrode, a second base electrode, and a second semi-conducting element, said second electrodes operatively contacting said second element, a second impedance network including a resistor and capacitor in parallel, means for coupling said second collector to said negative terminal through said second network, a second resistor means for coupling said second base electrode to said second emitter, impedance means commonly coupling said first and second emitter electrodes to said positive terminals, and a source of negative pulses commonly coupled to said first and second base electrodes.

2,651,729
ELECTRICAL APPARATUS
John H. Mayforth, Queens Village, N. Y., assignor to Bendix Aviation Corporation, New York, N. Y., a corporation of Delaware
Application September 29, 1949, Serial No. 118,637
5 Claims. (Cl. 307—132)

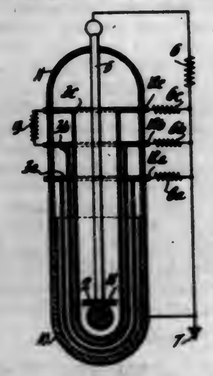
4. In apparatus of the class described, a source of electrical energy, a device for consuming elec-

trical energy from said source, means including a circuit breaker having a pair of normally disengaged contacts for connecting said device to said source, means including electro-magnetic means for intermittently closing and reopening said circuit breaker to intermittently connect and disconnect said device to and from said source, a pair of normally closed separable contacts in circuit with and separable by said electro-magnetic means to de-energize the latter,



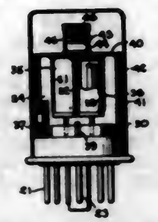
the separation of said normally closed contacts being effected during energization of said electro-magnetic means after said normally open contacts have been closed and moved beyond a predetermined position by said electro-magnetic means, and means for adjusting the position of one of said normally disengaged contacts relative to the other to vary the engaging period thereof during each cycle of operation in accordance with the output voltage of said source.

2,651,730
METHOD OF AND APPARATUS FOR UTILIZING RADIOACTIVE MATERIALS FOR GENERATING ELECTRICAL ENERGY
Ernest G. Linder, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 30, 1949, Serial No. 84,344
4 Claims. (Cl. 310—3)



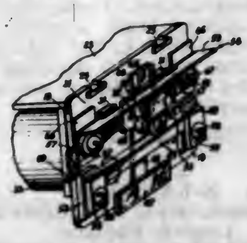
1. Apparatus for generating a plurality of electric energies including: an evacuated envelope including a metal portion and an insulation portion, a radioactive material disposed adjacent said metal portion and providing a source of charged particle emission, means semi-transparent to said emission disposed in regions adjacent to and successively more remote from said source for collecting said emitted particles to establish a plurality of potentials with respect to said source and to ground, means for shielding said insulation portion from said source, and means for utilizing said potentials.

2,651,731
TEMPERATURE CONTROL UNIT FOR PIEZOELECTRIC CRYSTAL
Ernest E. Overbey and John D. Holmbeck, Sandwich, Ill., assignors to The James Knights Company, Sandwich, Ill., a corporation of Illinois
Application February 2, 1951, Serial No. 209,002
4 Claims. (Cl. 310—9)



1. In an oven for a piezoelectric crystal the combination comprising a base having provision for mounting a crystal holder thereon with the crystal holder extending upwardly away from the base, an inverted cup of thermally conductive metal mounted on said base for enclosing said crystal holder, a thermostat thermally bonded to the upper end of said cup, a heating coil wound on said cup and connected for control by said thermostat, and heat conducting fins fastened within said cup in the region of said thermostat and extending downwardly therein for embracing the crystal holder, said fins being spaced from the wall of said cup so that heat is conducted to said crystal holder primarily from the region of said thermostat.

2,651,732
ELECTROMAGNETIC VIBRATING CONTACT DEVICE AND CONTROL
Anthony Winther, Kenosha, Wis., assignor, by mesne assignments, to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application November 30, 1951, Serial No. 259,114
5 Claims. (Cl. 310—95)



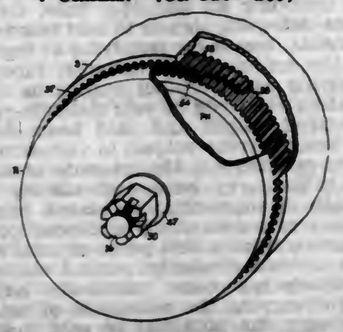
1. An electromagnetic vibrating contact device comprising a frame, an electromagnet carried by the frame, an elongate magnetic armature pivotally suported upon the frame with one end of the armature adjacent the electromagnet for actuation thereby, said armature being supported as a cross member upon a first torsion element and said torsion element being mounted at its ends upon the frame, a first contact carried by the armature on one side of its pivotal axis and a counterbalancing weight carried by the armature on the other side of its pivotal axis, a second torsion element having spaced supports, a contact carrying member projecting radially therefrom and carrying a second contact cooperable with the first contact, and a counterbalancing member projecting from the second torsion element in a direction opposite from that of said contact carrying member.

2,651,733
LUNDEL ROTOR CONSTRUCTION
Julian H. Stark, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application June 14, 1952, Serial No. 293,633
8 Claims. (Cl. 310—111)



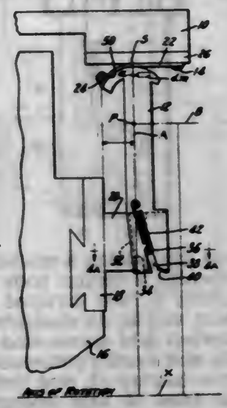
1. In a dynamoelectric machine, a field structure comprising a first group of circumferentially arranged evenly spaced axially extending teeth, a second group of circumferentially arranged evenly spaced axially extending teeth extending respectively into the spaces between the teeth of said first group, said second group of teeth being respectively circumferentially offset from the axial center lines of said spaces between the teeth of said first group thereby to reduce the magnitude of the harmonics normally generated by said machine, and means arranged to excite said first group of teeth at one polarity and said second group of teeth at the opposite polarity.

2,651,734
FREQUENCY GENERATOR
Oscar S. Field, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application November 16, 1951, Serial No. 256,634
7 Claims. (Cl. 310—169)



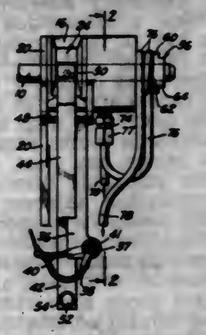
1. A frequency generator comprising in combination, a rotor of magnetic material having teeth uniformly and continuously spaced about its periphery, a stator having a generating magnetic structure and a generating winding, said stator having continuous uniformly spaced teeth disposed opposite the respective teeth of the outer periphery of said rotor to magnetically cooperate therewith, and a fixed magnetic shunting disc having continuous uniformly spaced teeth about its periphery cooperating in correspondence with teeth of said rotor to shunt flux away from said generating magnetic structure at times when the teeth of said rotor and said generating magnetic structure are out of correspondence with each other.

2,651,735
BRUSH HOLDER FOR ELECTRICAL MACHINERY
Franklin O. Wisman and Royal J. Reek, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 31, 1950, Serial No. 153,078
13 Claims. (Cl. 310—231)



1. In combination, a brush holder for use with rotating electrical machinery and having a brush carrying portion, means providing a plurality of supporting areas for the holder on the rotating structure of the machine, each of said areas providing a new fulcrum for the holder, and means including a leaf spring lying adjacent the supporting areas and interposed between the holder and the structure of the machine for repositioning the brush holder on a new area of support as the brush wears.

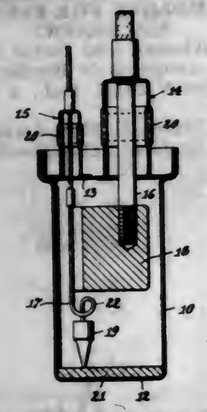
2,651,736
ARC LAMP COOLING DEVICE
Clarence S. Ashcraft, Manhasset, N. Y.
Application December 17, 1951, Serial No. 262,137
7 Claims. (Cl. 313—36)



1. In a cooling device for an arc lamp of the type having a carbon, electrical contacts to said

water tube from said water jacket, said second tube being coiled about said guard and in contact therewith.

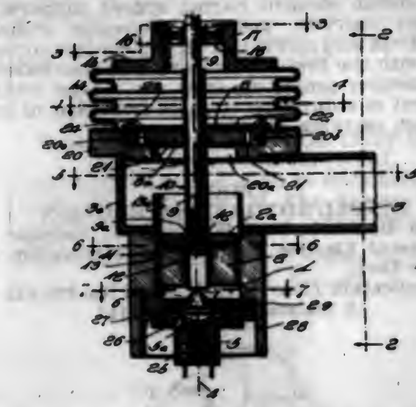
2,651,737
IGNITRON
Donald E. Marshall, Clifton, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 6, 1950, Serial No. 188,684
2 Claims. (Cl. 313—171)



1. An ignitron comprising a sealed casing having an anode therein, a sponge body fixed in said casing and having a face directed toward and spaced from said anode, an elongated ignitor in said casing between said anode and said face of the sponge body and axially perpendicular to said face, said ignitor having an end thereof in contact with said face of said sponge body and always in contact with the same spot of said surface, a lead-in connection insulated from said casing and carrying said ignitor at the inner end of said lead-in connection, resilient means included as part of said lead-in connection and applying force longitudinally of said ignitor and holding the end of said ignitor permanently in tight perpendicular engagement with the said spot of the surface of said cathode and thereby maintaining a substantially constant firing characteristic for the ignitron, and reconstructive cathode material in said sponge body.

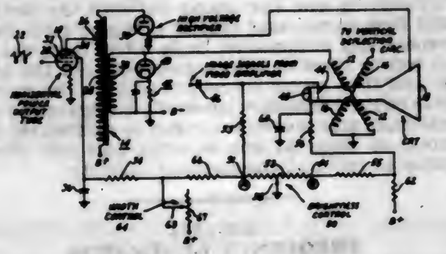
2,651,738
WIDE RANGE INDUCTIVELY-TUNED OSCILLATOR
Jewell J. Ebers, Columbus, Ohio, assignor to The Ohio State University Research Foundation, Columbus, Ohio, a corporation of Ohio
Application July 12, 1951, Serial No. 236,407
15 Claims. (Cl. 315—5)

1. A high frequency oscillator and waveguide comprising in combination with a waveguide, a resonant cavity associated with said waveguide, an electron discharge source arranged adjacent said resonant cavity and said waveguide, an inner conductor extending through said waveguide and terminating adjacent said electron discharge source, means for supporting said inner conductor in capacitative relation to said waveguide, an adjustable member extending through said inner conductor, a toroidal shaped member surrounding said inner conductor and insulatingly supported by said adjustable member, said toroidal shaped member being variably displaceable in a direction normal to the axis of said waveguide in spacial relation to said inner conductor in both said cavity and said waveguide, and a decoupling member extending from said



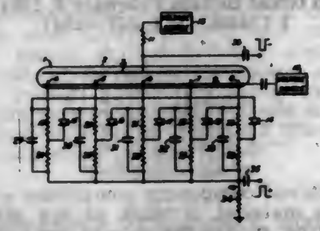
cavity into said waveguide and surrounding the path of travel of said toroidal shaped member.

2,651,739
BRIGHTNESS CONTROL CIRCUIT FOR TELEVISION RECEIVERS
Walter H. Chudleigh, Jr., Oreland, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application June 8, 1951, Serial No. 230,535
3 Claims. (Cl. 315—22)



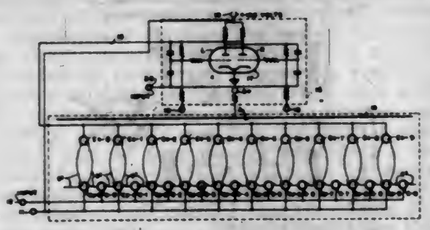
1. In a television receiver; a cathode-ray image-reproducing tube; beam-deflecting elements associated with said cathode-ray tube; means, including an amplifier tube, for applying beam-deflecting signals to said beam-deflecting elements; means for rectifying at least a portion of the output of said amplifier tube; means for applying said rectified output to a beam-accelerating electrode of said cathode-ray tube, said rectified output and said beam-deflecting signals being thereby subject to variations in response to variations in the intensity of the beam in said cathode-ray image-reproducing tube; a D.-C. path of substantial resistance connecting two points of substantially different potential; a connection from a first point on said resistive path to a beam-intensity control electrode of said cathode-ray tube; manually adjustable means for varying the resistance of said D.-C. path to vary the potential at said first point, thereby to vary the potential of said beam-intensity control electrode; and a connection from a second point on said resistive path to a space-current control electrode of said amplifier tube, whereby, when said adjustable means is adjusted to vary the intensity of said cathode-ray beam, the potential of said space-current control electrode is concurrently varied.

2,651,740
ELECTRON SWITCHING DEVICE
Julien J. B. Lair, Nutley, N. J., assignor to Federal Telecommunication Laboratories, Inc., Nutley, N. J., a corporation of Delaware
Application September 29, 1951, Serial No. 248,999
17 Claims. (Cl. 315—167)



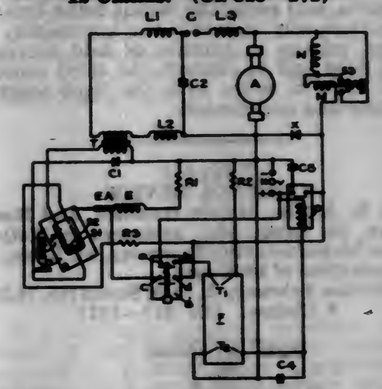
1. An electron switching device comprising an envelope containing a gaseous atmosphere, an anode and a plurality of cathodes, said cathodes being disposed in spaced relation to each other and to said anode to provide a plurality of anode-cathode gaps, a plurality of bias control circuits each coupled to one of said cathodes, each control circuit having at least one resistor, directive means coupling each of said control circuits to another of said control circuits, the circuit connection between cathodes including one of said directional means and a resistor of one of said control circuits, whereby the firing of one anode-cathode gap provides a potential bias through the associated directive coupling means to bias the anode-cathode gaps associated with the other control circuits at different potential levels, and means for applying a pulse potential difference across said gaps to fire the gap having the most favorable condition.

2,651,741
DUAL-POLARITY GAS TUBE COUNTER
Robert B. Kochler, Hopewell Junction, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application May 15, 1951, Serial No. 226,504
7 Claims. (Cl. 315—168)



1. A gaseous storage device of the glow transfer type wherein the position of a glow discharge within said device indicates the quantity stored therein comprising a group of position cathodes spaced substantially equidistant from each other along a closed glow transfer path; a group of glow transfer cathodes, one being spaced intermediate consecutive ones of said position cathodes and within said glow transfer path; glow transfer means intermediate successive cathodes to facilitate the transfer of a glow discharge from each cathode to the next successive cathode so that said glow discharge is transferable along said path in one direction only; a group of holding cathodes, one cathode being provided for and corresponding to each of said position cathodes; an anode common to all of said cathodes; and glow transfer means intermediate each holding cathode and the corresponding position cathode for transferring a glow discharge therebetween.

2,651,742
CIRCUIT FOR OPERATING ELECTRIC DISCHARGE DEVICES
Eric Arthur Howard French, Christchurch, England
Application August 2, 1947, Serial No. 765,713
In Great Britain April 21, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires April 21, 1964
12 Claims. (Cl. 315—171)

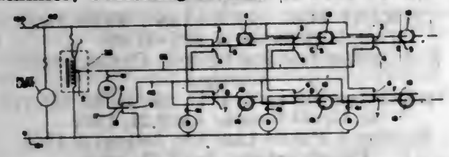


1. An operating circuit for a high pressure vapor electric discharge lamp adapted to operate normally from a direct current source and having characteristics such that on starting operation with any combination of internal temperature and pressure, which may occur, a high frequency discharge must be maintained between the electrodes of the lamp for a predetermined minimum time before the normal direct current discharge can start and be maintained, said circuit comprising: a first pair of terminals for connection to the electrodes of the lamp; a resonant circuit electrically connected across said first pair of terminals; a high voltage pulse generator; a switching means connected in circuit with said pulse generator and causing a substantially unidirectional high voltage pulse to be generated on each occasion on which it is operated; means for applying the output of said pulse generator to the resonant circuit, the resonant circuit having a decrement and resonant frequency such that on application of a pulse from the said pulse generator when the lamp is connected to the first pair of terminals, a high frequency discharge will be maintained in the lamp for at least said predetermined minimum time; a second pair of terminals for connection to the direct current source for use in normal operation of the lamp; and circuit means completed on operation of said switching means for electrically connecting said second pair of terminals to said first pair of terminals.

2,651,743
LIGHTING CONTROL SYSTEM
Rollo Gillespie Williams, Great Neck, N. Y., assignor, by mesne assignments, to Duro-Test Corporation, North Bergen, N. J., a corporation of New York
Application October 2, 1950, Serial No. 187,958
23 Claims. (Cl. 315—191)

1. In a control system for colored lighting, in combination, three electrical sources of colored

light, each of the colors of which is approximately the complementary color of a hue resulting from the combination of colored light of the other two sources, an electrical source of light of paler color than those of said other sources, a dimmer, switching means to select a source



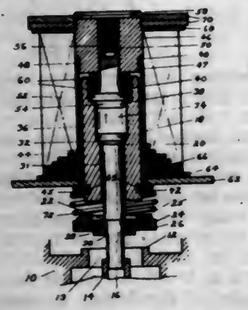
of colored light and to apply the dimmer voltage thereto, said switching means being arranged to simultaneously maintain the application of a constant voltage to another of said sources of colored light and to connect the third source of colored light in series with the light source of paler color and said dimmer.

2,651,744

CONTROL DEVICE

Gordon R. Acklin, Melvin Hantack, and Huel E. Perrey, St. Louis, Mo., assignors to McQuay-Norris Manufacturing Company, St. Louis, Mo., a corporation of Delaware

Application February 2, 1949, Serial No. 74,226
8 Claims. (Cl. 317—191)



1. A solenoid that comprises an electromagnetic coil, a sleeve extending into said coil, a magnetically-responsive core, a stop adjacent one end of said sleeve to limit movement of said core through said sleeve in response to magnetic lines of force generated by said coil, an actuator carried by said core, surfaces on said actuator and said core that are selectively engageable with or separable from each other, a spring acting upon said actuator to urge said surfaces into engagement with each other whenever said core has moved through said sleeve in response to said magnetic lines of force and thereby keep said actuator from rattling against said core, and a resilient bumper on the exterior of said core that projects beyond the surface of said core, said bumper having outer dimensions substantially smaller than the inner dimensions of that part of said sleeve which is in register with said bumper whenever said core has moved through said sleeve in response to said magnetic lines of force whereby said bumper can be out of engagement with said sleeve when said core has moved through said sleeve in response to said lines of magnetic force, said spring urging said core into alignment with said sleeve, said bumper and said spring minimizing noise in said solenoid by biasing said bumper out of engagement with said sleeve and providing a yielding engagement between said bumper and said sleeve whenever said bumper and sleeve engage each other.

2,651,745

DRY RECTIFIER ASSEMBLY

Sidney Hughes Marrow, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application January 29, 1952, Serial No. 268,814
In Great Britain February 8, 1951
1 Claim. (Cl. 317—234)



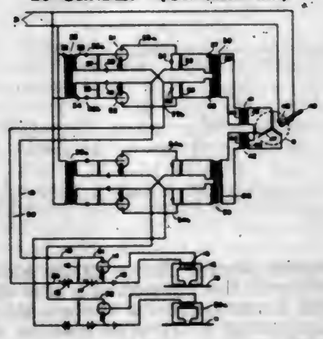
An electrical component comprising a tube of insulating material, a stack of dry plate rectifiers fitting snugly inside said tube, each rectifier extending transversely of the tube, a first flat washer against one end of said stack, a spiral spring compressed against said flat washer, a second flat washer against the other end of said spring, a pair of resilient retaining metal washers each forced into an opposite end of said tube, each of said washers being of slightly larger surface dimensions than the entire size of the tube whereby upon being forced into the tube they become dished and offer resistance to withdrawal, each of said washers having a central opening, a pair of connecting wires each passing from outside the tube through one of said central openings and ending in a flat contact head of greater diameter than the opening but of smaller diameter than the inside of the tube, said flat heads being forced by said resilient metal washers against the second flat washer and the opposite end of the stack.

2,651,746

CONTROL DEVICE

Joseph J. Gano, Worcester, Mass., assignor, by mesne assignments, to Kearney & Trecker Corporation, West Allis, Wis., a corporation of Wisconsin

Application August 17, 1945, Serial No. 611,176
19 Claims. (Cl. 318—55)



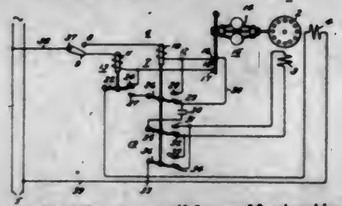
1. An open loop control system for a selsyn receiver motor including rotor and stator windings, a fixed frequency alternating current supply source for one of said motor windings, a control circuit connected with the other of said motor windings, said control circuit including an intelligence pick-up means, an intelligence signal amplifier means, and modulator means including power amplifier means comprising a pair of transformers having their primary windings supplied with current from said fixed frequency alternating current supply source and their secondary windings impressing a voltage upon said modulator means, another portion of said modulator means having impressed thereon the varying voltages of said amplified intelligence signal to impress A. C. voltages of varied amplitudes on a portion of the other of said motor windings through the operation of said modulator means, and a movably mounted intelligence record disposed in close proximity with said intelligence pick-up means and cooperating therewith to induce voltages in said control circuit, said intelligence record including quadrature related indicia active upon movement of said intelligence record to control the direction and speed of rotation of said selsyn receiver motor.

2,651,747

INSTANTLY REVERSIBLE MOTOR

Wilbur W. Warner, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York

Application April 25, 1951, Serial No. 222,861
10 Claims. (Cl. 318—203)



1. An instantly reversible, self-starting, single phase alternating current motor having a running winding and a starting winding, a pair of circuits connected to said starting winding for energizing the same, means for selectively connecting one of said circuits to a source of alternating current for selecting the direction of rotation of said motor, means responsive to the speed of said motor for opening both of said circuits when said motor speed exceeds a predetermined value whereby said starting winding is disconnected and for closing said circuits when said motor speed falls substantially below said predetermined value, each of said circuits having circuit establishing means respectively energizable responsive to energization of said circuits arranged to connect said running winding in circuit with the circuit selected by said selective means for energization therefrom, means for sealing said running winding connection when said circuits are opened by said speed responsive means whereby only said starting winding is disconnected, one of said circuit establishing means connecting said starting winding for energization in one sense responsive to energization of its associated circuit and for energization in the reverse sense responsive to de-energization thereof whereby said motor is reversed, and a regenerative braking circuit including said running winding and said starting winding and both of said circuit establishing means are unenergized.

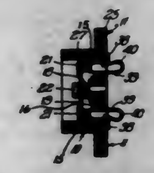
2,651,748

ELECTRICAL OVERLOAD PROTECTOR

Palmer C. Talmadge, John D. Zartman, and Robert E. Prouty, Logansport, Ind., assignors to Essex Wire Corporation, Logansport, Ind., a corporation of Michigan

Application October 26, 1950, Serial No. 192,278
8 Claims. (Cl. 318—453)

1. In a thermally responsive electrical overload protector, a base comprising a foundation plate and a cup projecting therefrom; a thermally actuated bimetal switch blade comprising two thin layers of different metals fused together as a single plate and having unequal thermal coefficients of expansion to form thereby opposed high and low expansive surfaces of said blade, said plate being mounted in said cup, two current carrying metal contact buttons inserted along opposite margins of said blade for contacting circuit connecting terminals mounted therebelow in said foundation plate, two metal contour reinforcing plates mountable on the upper surface of said blade and having fused connection with extended portions of said contact buttons projecting up through said blade and said contour plate being formed with a predetermined and calibrated radius of curvature which radius is imparted to and maintained in said blade by said contour plates, such plates being of sufficient thickness and rigidity to insure against aging and creepage of the metal of said blade caused by repeated flexing thereof.



7. In a thermally actuated electrical overload protector of the class described, the combination comprising, an insulating base member having a foundation plate and a cup portion projecting outwardly therefrom, a plurality of circuit connective terminals mounted in said plate and extending into said cup's interior, an electrical heater disposed in the bottom of said cup, a threaded adjusting post mounted centrally upright in said cup portion, a coil spring member mounted coaxially about said post, a curvilinear bimetallic switching blade mounted coaxially on said post and above said spring, said blade making contact with two of said terminals in its normally closed operating position and being adapted to snap upwardly adjacent its periphery toward its low expansive side to assume an open circuit position in the presence of a predetermined opening temperature; and an adjusting nut threaded over the upper end of said post for holding the center of said blade tightly against the upper end of said spring; said spring and nut maintaining the center of said blade stationary during operation, with said spring and nut providing a means for adjustably positioning the center of said blade on said post thereby to regulate the operating characteristics of said blade; movement of said nut to increase the compression of said spring causing an adjustable decrease in the temperature at which said blade will snap to its said open position.

2,651,749

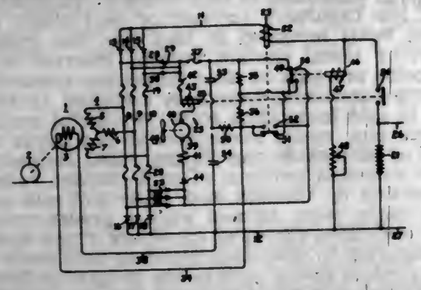
DIRECT CURRENT SUPPLY SYSTEM

Gay W. Weber, Erie, Pa., assignor to General Electric Company, a corporation of New York

Application August 11, 1952, Serial No. 303,644
5 Claims. (Cl. 320—28)

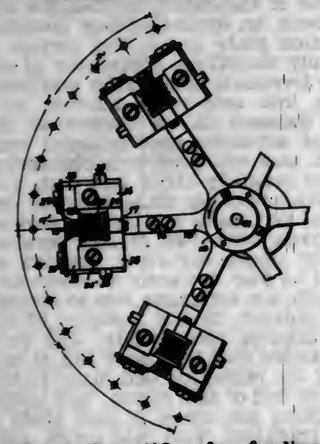
1. An electrical system for supplying power to a direct current load comprising an alternator having an output winding and a field winding, a first rectifier connected in circuit with said alternator output winding and adapted to be connected to said load, a second rectifier connected in circuit with said alternator output winding, a fan arranged to cool said rectifiers, and a direct current motor mechanically connected to drive

said fan and electrically connected in circuit with said second rectifier, a third rectifier electrically



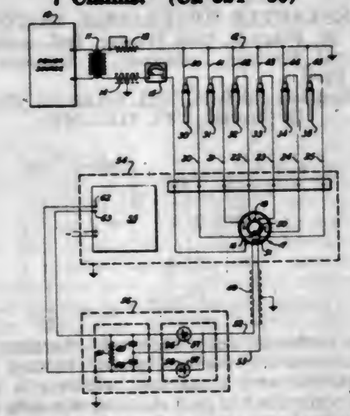
connected in series with said motor, said alternator field winding being connected in circuit with said second rectifier.

2,651,750
MECHANICAL RECTIFIER
Floris Koppelmann, Berlin-Siemensstadt, and Helmut Böhm, Berlin-Charlottenburg, Germany, assignors to Licentia Patent-Verwaltungs-G. m. b. H., Hamburg, Germany
Application February 14, 1951, Serial No. 210,865
In Germany February 21, 1950
3 Claims. (Cl. 321—48)



1. A mechanical rectifier for feeding a load with a large current at a direct voltage between 30 volts and approximately 100 volts, comprising in combination, a three-phase transformer having three secondary windings arranged in a cycle so as to carry successive phase voltages, respectively, any two of which have equal values at predetermined instants, respectively; bridge connections connected to said secondary windings, respectively, each of said bridge connections including a first and a second pair of block-like stationary contact means connected to the terminals, respectively, of said secondary windings connected to said bridge connections; a series connection including the load between said bridge connections, said series connection separating said first pair of block-like contact means from said second pair of block-like contact means in each of said bridge connections; a plurality of movable contact means associated, respectively, with said stationary contact means so as to bridge the same in one end position thereof, said contact means consisting of a tungsten silver alloy; and means for adjusting the closing instants of said movable contact means, respectively, so as to initiate the commutation of currents in said secondary windings, respectively, before the predetermined instant at which the phase voltage carried by any one of said secondary windings is equal to the phase voltage carried by the next of said secondary windings in the cycle.

2,651,751
APPARATUS FOR MEASURING RESISTANCE
Howard R. Heath, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application December 14, 1949, Serial No. 132,924
7 Claims. (Cl. 324—30)

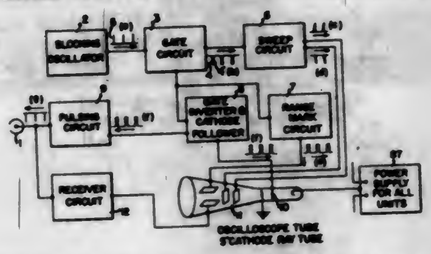


3. Resistance measuring apparatus comprising in combination, an electrical circuit having therein a fixed resistance and an electrolyte of biological origin whose variable resistance is to be measured, said fixed resistance having a resistance of the order of one hundred times the resistance of said electrolyte, means including a constant temperature liquid bath in which said electrolyte is separably immersed for maintaining said electrolyte at a desired temperature, means including said fixed resistance and electrolyte providing an alternating current of substantially constant rate of current flow through said circuit, recording means adapted to receive a direct current voltage, a crystal rectifier connected to said recording means, said rectifier being immersed in said constant temperature bath for maintaining said rectifier at the same constant temperature as said electrolyte, and a switch means adapted to be connected across the electrolyte under measurement and to said rectifier whereby an alternating current voltage representative of the resistance of said electrolyte is converted into a direct current voltage applied to said recording means.

2,651,752
ELECTRICAL FAULT FINDER
André J. Dévot, Canton, Mass., assignor to Tobe Deutschmann Corporation, Canton, Mass., a corporation of Delaware
Application January 7, 1948, Serial No. 997
13 Claims. (Cl. 324—52)

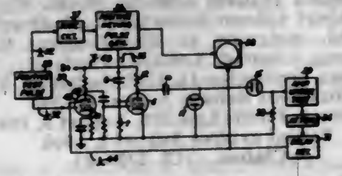
1. A system for locating a fault on an electrical line comprising means for producing a square topped electric pulse of desired duration and frequency, the forward side of the pulse marking the initiation of operation and the rearward side marking the termination of operation, a sweep

circuit means, a range marking circuit means for producing a number of marking peaked waves spaced uniformly with the initial peak corresponding to the initiation of operation, each of said means being connected to said first named means, a cathode ray oscilloscope tube having a cathode ray beam with means for controlling the movement thereof, a receiving circuit connected



to said line for receiving the reflected pulses from the line, means connecting said sweep circuit to said tube for moving the beam across the tube, and means connecting said range circuit and receiving circuit each to said cathode ray tube for moving the beam transverse to the previous mentioned motion of the beam for producing range marks and location marks of faults.

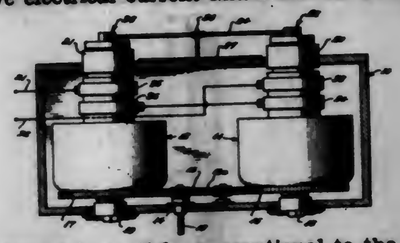
2,651,753
PULSE KEYING SYSTEM
Edward M. Buyer, Ramsey, N. J., assignor to Federal Telecommunication Laboratories, Inc., Nutley, N. J., a corporation of Delaware
Application October 2, 1952, Serial No. 312,696
8 Claims. (Cl. 324—57)



1. In a pulse keying system, an electron discharge device, means to normally bias said device to cut off, a capacitor coupled to the output of said device, a pair of unidirectional elements, one coupled in series with said output and the other connected in shunt with said output, means to apply a keying voltage having a substantially flat voltage portion to the input of said device to overcome said cut off bias, and means to apply a test pulse of short duration to the input of said device in coincidence with the flat voltage portion of said keying voltage, the shunt coupled element serving to stabilise the charged condition of said capacitor following application of the leading edge of said keying voltage and said series coupled element serving to pass only those variations of a given polarity relative to said stable charged condition.

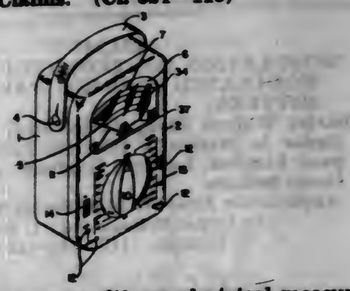
2,651,754
ELECTRICAL METER
Edward Gordon Perry, Jr., and Robert W. Olson, Dallas, Tex., assignors to Texas Instruments Incorporated, a corporation of Delaware
Application December 1, 1949, Serial No. 130,413
7 Claims. (Cl. 324—92)

1. In an electrical meter that comprises a rotatable clutch plate, means for rotating said clutch plate at a predetermined speed, a second rotatable clutch plate mounted adjacent to and in axial alignment with the first, finely divided particles of magnetic material between the plates, an electro-magnet coil arranged to receive electrical current and send flux through



said magnetic particles proportional to the current, an indicator attached to said second clutch plate and means to restore said indicator; the improvement that comprises a generator of magnetic flux positioned so as to apply a fixed magnetic flux bias to said magnetic particles.

2,651,755
ELECTRICAL MEASURING INSTRUMENT WITH RANGE AND MULTIPLYING FACTOR INDICATOR
Ray L. Triplett, Bluffton, Ohio, assignor to The Triplett Electrical Instrument Company, Bluffton, Ohio, a corporation of Ohio
Application April 12, 1950, Serial No. 155,490
3 Claims. (Cl. 324—115)



1. A multi-range, multi-use electrical measuring instrument comprising a casing provided with a dial and a plurality of scales, a single pointer traversing the scales, and an electrically operated actuator for said pointer, electrical elements including circuits within the casing, a circuit selecting switch for connecting and disconnecting said actuator and elements, said scales having measurement ranges which require multiplying factors to obtain the true reading from the pointer, and means for indicating on said dial, in response to operation of said switch, the proper single scale to be read and the proper multiplying factor to be applied to the readings of the pointer in order to adapt the instrument to said multi-ranges of measurement and to said multi-uses.

2,651,756
OSCILLOGRAPH GALVANOMETER
Marvin E. Morrow, Tulsa, Okla., assignor to Midwestern Geophysical Laboratory, Tulsa, Okla., a corporation of Delaware
Application September 11, 1950, Serial No. 184,156
3 Claims. (Cl. 324—154)

1. In a galvanometer, an elongated, hollow housing provided with an open end; a tubular bushing secured within the housing, the innermost end of the bushing presenting a rigid, stationary shoulder facing inwardly away from

said open end; an elongated coil mounting having a head on one end thereof within the housing and extending outwardly from the housing through said bushing; means carried by the mounting exteriorly of the housing for forcing said head



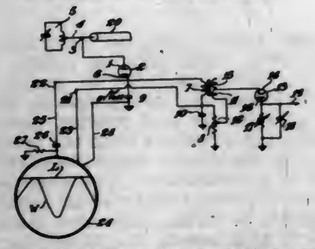
tightly against the shoulder; and wedge structure in the bushing separate from the mounting and disposed for engagement by said means for aligning said mounting coaxially with the housing as the head is forced against the shoulder.

2,651,757

MODULATION CONTROL CIRCUITS FOR MODULATED CARRIER WAVE TRANSMITTERS

Charles Wilfred Rich, Chelmsford, England, assignor to Marconi's Wireless Telegraph Company Limited, London, England, a company of Great Britain

Application June 26, 1951, Serial No. 233,552
In Great Britain July 7, 1950
5 Claims. (Cl. 332—38)



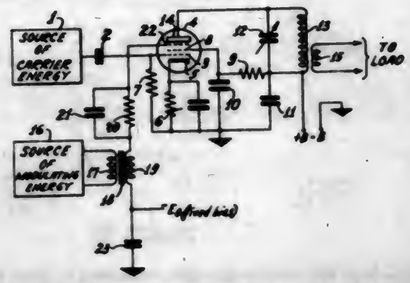
1. In a modulated carrier wave transmitter an automatic modulation control circuit arrangement comprising a first rectifier circuit fed from a point in said transmitter where the modulated carrier appears, said rectifier circuit including a rectifier load having a portion of high impedance to the modulated frequency component of the rectified modulated carrier and very low impedance to the rectified carrier component thereof and a portion of high impedance to said rectified carrier component and very low impedance to said modulating frequency component, a second rectifier circuit including a load, means for superimposing voltages derived from said portions and applying the resultant as so-called delay voltage for the second rectifier circuit, and means for taking off voltage from the load of the second rectifier circuit and utilising it to control the modulation of the transmitter.

2,651,758

MODULATION CIRCUIT

Harry Bliss Foster, Ellisburg, and Joseph R. Parker, Haddon Heights, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application June 27, 1951, Serial No. 233,858
12 Claims. (Cl. 332—38)



1. In a modulation circuit, an electron discharge device having at least a control grid, a suppressor grid and an output electrode, means for applying carrier energy to said control grid, means for applying modulating energy to said suppressor grid to modulate the amplitude of the carrier energy appearing at said output electrode, means providing an operating bias on said suppressor grid, and means in circuit with said suppressor grid and responsive to suppressor grid current flow, for increasing said bias.

2,651,759

WAVE SIGNAL TRANSLATING AND SEPARATION SYSTEM

Hugh Russell Letham Lamont, North Wembley, and Robert Gibson Robertshaw, Bedford Park, England, assignors to The General Electric Company, Limited, London, England

Application September 11, 1947, Serial No. 773,372
In Great Britain August 2, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires August 2, 1966
7 Claims. (Cl. 333—6)



1. A wave-signal translating and separation system wherein two contiguous stations are connected through a common wave-guide of square cross-section to a common signal-conveying channel, said wave guide being effectively short-circuited, at one end thereof and arranged to be coupled to said signal-conveying channel at the other end thereof, wherein the signals associated with the stations are polarised in mutually perpendicular planes each parallel to sides of the said common wave-guide, and wherein each of said stations is coupled to said common wave-guide through a polarisation-filtering slot of substantially rectangular shape formed in the periphery of said common wave-guide, each of said slots having one pair of parallel sides substantially parallel to the longitudinal axis of said common wave guide and positioned in the periphery thereof at a distance from said one end thereof which is substantially an integral multiple of a quarter wave length of the waves translated therealong, said slots being individually responsive to different signals having said different

planes of polarization whereby each of said slots translates the waves of the polarisation corresponding to that station, but not the waves of the other polarisation.

2,651,760

RETARDATION LINE SUBDIVIDED INTO SECTIONS

Marc André Lalande, Paris, France, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application December 8, 1949, Serial No. 131,764
In France December 10, 1948
2 Claims. (Cl. 332—29)



1. An electrical delay line comprising a number of serially connected sections, input means for applying sinusoidal electrical energy on one of said sections, a terminating impedance for the last section of said delay line, two tapping leads associated respectively with sections of said delay line intermediate said input means and said terminating impedance, amplifying means provided on each one of said tapping leads and having equal resistances R_2 in the outputs thereof, potentiometer means bridging the outputs of said amplifying means whereby the delay of the electrical energy on said first tapping lead with respect to the delay of the electrical energy on a variable tapping lead of said potentiometer means is variable according to the adjustment of said potentiometer means, the values of said resistances R_2 being related to the resistance $2R_1$ of said potentiometer means by the relation:

$$\frac{R_2}{R_1}=2.81$$

whereby a continuous and substantially linear variation of electrical delay is obtained in function of said potentiometer means adjustment.

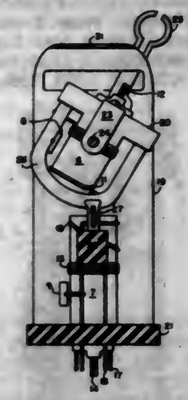
2,651,761

VARIABLE BAND-WIDTH TRANSFORMER

Emerick Toth, Takoma Park, Md.

Application August 5, 1948, Serial No. 42,661
3 Claims. (Cl. 333—77)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A variable bandwidth radio frequency transformer comprising, a pair of coils tuned to the same frequency and normally disposed end to end in collinear relation so as to have a common longitudinal axis, each of said coils being disposed within the flux path of the other to provide the transformer coupling, an electrostatic shield surrounding said coils and having a longitudinal axis coincident with that of the coils, one of said coils being pivotable about a tansverse axis lying in the plane of the center winding thereof, a pair of U-shaped conductive members positioned on either side of said pivotable coil and parallel to the longitudinal axis thereof, one end of said pivotable coil being connected to one U-shaped member and the other end being connected to the other U-shaped member, a pair of sliding contact means each adapted to contact one of said U-shaped members in any position thereof, and means for pivoting said pivotable coil and



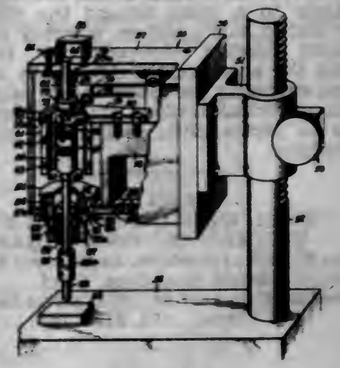
said U-shaped members from outside said electrostatic shield.

2,651,762

GAUGE HEAD

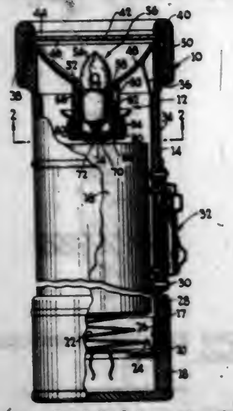
Harold A. Snow, West Orange, N. J., assignor to Federal Products Corporation, Providence, R. L., a corporation of Rhode Island

Original application June 20, 1944, Serial No. 541,201. Divided and this application January 27, 1949, Serial No. 73,120
11 Claims. (Cl. 336—30)



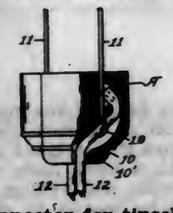
1. In a gauge head of the character described, the combination of, a metallic casing, a feeler mounted to move with respect to said casing and engageable with a work piece exteriorly of said casing, a movable coil system mounted within said casing to be moved by movement of said feeler, a fixed coil system mounted within said casing coaxially with respect to said movable coil system, a fixed member of non-magnetic material which is a good electrical conductor having a portion coaxial with and in fixed relationship to said fixed coil system at one end thereof, a movable member similar in its electrical and magnetic characteristics to said fixed member and adjustably mounted at the other end of said fixed coil system, and a non-magnetic concentric shielding sleeve of material which is a good electrical conductor extending throughout the length of said coil systems.

2,651,763
SHOCK ABSORBER ASSEMBLY FOR PORTABLE ELECTRIC FLASHLIGHTS
Leopold C. Grimsley, New York, N. Y., assignor to Henry Hyman, New York, N. Y.
Application December 3, 1947, Serial No. 789,513
11 Claims. (Cl. 339—93)



1. For use in a flashlight, a shock absorber assembly including a bushing having a base wall provided with a through aperture, an electrically conductive coil spring extending bodily through said aperture with a lower portion disposed in the aperture and its upper end projecting above the upper end of the aperture, said upper end of the spring being smaller across than the upper end of the aperture, said spring including a portion adjacent its bottom which extends laterally outwardly to a point beyond the sides of the upper end of said aperture whereby to limit by abutment upward movement of the spring through the aperture, an electrically conductive element spanning the lower end of said aperture and in electrical contact with the spring, and means to permanently secure said element to said bushing.

2,651,764
TINSEL WIRE CONNECTOR FOR ELECTRICAL CONDUCTORS
Gordon P. Feits, Pasadena, and Robert W. Seeger, South Pasadena, Calif.
Application February 24, 1951, Serial No. 212,554
1 Claim. (Cl. 339—100)



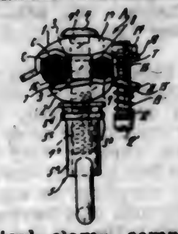
An electric connector for tinsel wire comprising, in combination, a plug and a pair of conductor blades, each of said blades consisting of a flat, rectangular contact member having a downwardly and outwardly inclined pointed contact member on its side and a bifurcated lower end portion formed into a pair of clasps, said plug having a lower, common opening through which a pair of tinsel wires pass to enter the plug, a pair of separated, divergent-convergent passages for each of the tinsel wires branching upwardly through said plug from said common opening so that the tinsel wire takes a decided bend in the passage, a pair of blade passages each passing up through the plug and beginning substantially at the beginning of the bend in each wire passage, the bend in the wire passage ending in the upper part of the plug substantially midway of the length of the blade passage, the pointed contact member assuming, in assembly, the angle of the converging section of the wire passage and having the end of the tinsel wire impaled thereon at the upper end of the bend, said pair of clasps being wrapped around the tinsel wire at the lower end of the bend, so that the tinsel wire is bent and jammed in the bend of the convergent-divergent passage and thus securely impaled in connection with said inclined contact member.

2,651,765
HAND LOCKING BATTERY CABLE CLAMP
Melvin O. Nelson, Kansas City, Mo.
Application February 26, 1952, Serial No. 273,492
1 Claim. (Cl. 339—239)



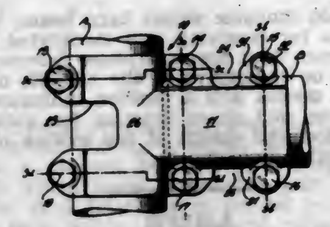
A device of the character described comprising, in combination with a battery terminal post and a cable, the provision of a U-shaped terminal for said cable having a bight portion attached to said cable and a pair of substantially circular spaced legs each having a centrally disposed opening for receiving said post therethrough, a locking member provided with a circular head and an integrally formed handle, said head adapted to be inserted between said legs and having an eccentric opening for receiving said post therethrough, said bight portion having a serrated inner face and said head having a serrated edge portion adapted to engage the serrations in the bight portion, and an endless retaining wire interconnecting said cable and said handle.

2,651,766
ELECTRICAL LINE CLAMP
Kenneth R. Runde, Lemay, Mo., assignor to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri
Application December 5, 1949, Serial No. 131,090
3 Claims. (Cl. 339—246)



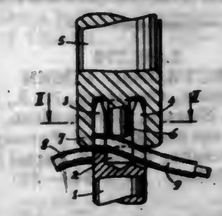
1. An electrical clamp comprising an upper jaw, a lower jaw, adjusting means for drawing said jaws toward each other, related conductor seats formed on said upper and lower jaws adjacent to the forward portions of said jaws, related conductor seats formed on said upper and lower jaws adjacent to the rear portions of said jaws, extended portions formed on said upper and lower jaws and having alined apertures formed therethrough, an elongated element extended through said apertures for connecting the rear portions of said jaws together, and resilient means comprising a coil spring associated with said elongated element for drawing said rear portions of said jaws toward each other and moving the forward portion of said lower jaw away from the forward portion of said upper jaw, said adjusting means including a bolt which extends between the forward and rear related conductor seats formed on said upper and lower jaws.

2,651,767
BOLTED BUS CONNECTOR
Martin D. Bergan, Westfield, N. J., assignor to The Thomas & Betts Co., Elizabeth, N. J., a corporation of New Jersey
Application March 11, 1946, Serial No. 653,631
4 Claims. (Cl. 339—265)



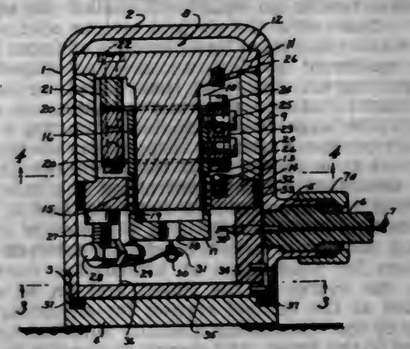
4. A metallic clamp for mechanically and electrically connecting two cylindrical conductors, said clamp including a pair of similar clutch jaws each rectangular in plan arranged in opposing relation, each jaw provided on its inner or conductor-engaging side with two straight grooves extending at right angles to each other in a T relation, one of said grooves constituting a head groove and the other a stem groove, one end portion of each jaw containing all of the head groove and the adjacent inner end of the stem groove, said jaw end portion provided with four bolting flanges outstanding from the associated grooves and arranged substantially at the four corners of a rectangle and comprising two outer flanges and two inner flanges, said end portion provided with a recess extending from an edge thereof inwardly substantially to the crown of the head groove and separating the two outer flanges, the outer flanges and the inner flanges being disposed in pairs on opposite sides of the head groove and in transverse relation thereto and the two inner flanges being located on opposite sides of the inner end of the stem groove and in the portion of the jaw which forms the corners between the head and stem grooves, and the other end portion of the jaw which contains the outer end of the stem groove provided with a pair of bolting flanges disposed on opposite sides of the stem groove at the outer end thereof, said other end portion provided with a pair of waist forming recesses projecting inwardly from opposite sides thereof into the stem groove to form a web therebetween at the crown of the stem groove, bolts connecting each flange of one jaw with the corresponding flange of the other jaw and each jaw capable when the bolts are drawn tight about the conductors clamped thereby to become distorted as a whole to conform to the configuration of the particular part of the conductor engaged thereby and the bolts engaging the associated inner flanges operative simultaneously to draw the adjacent parts of the jaws containing both grooves into engagement with both conductors.

2,651,768
ELECTRICAL TERMINAL HAVING CONDUCTOR-SEVERING EDGE
Jan Oertgijsen, Rijswijk, Netherlands
Application March 24, 1948, Serial No. 16,776
In the Netherlands April 2, 1947
4 Claims. (Cl. 339—276)



1. A terminal for an electrical conductor, comprising a base, a plurality of consecutive pairs of gap-forming members, each pair defining a gap therebetween for receiving a conductor, at least one of said members presenting a straight contact edge facing the other member of said pair, said consecutive gaps having different depths adapted to receive an electrical conductor, the gap of least depth defining a severing edge arranged to be engaged by the conductor lying in said gap and adapted to cooperate with the severing edge of a complementary tool receivable on said terminal to slidably engage said severing edge.

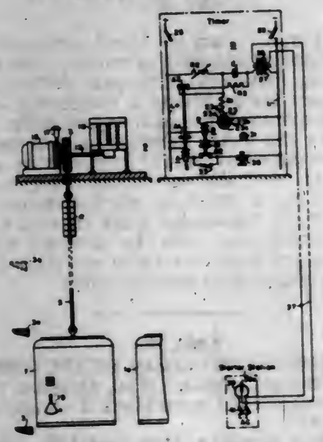
2,651,769
SEISMIC VIBRATION DETECTOR
John A. Stafford, Tulsa, Okla., assignor to Century Geophysical Corporation, a corporation of Delaware
Application August 1, 1952, Serial No. 302,686
3 Claims. (Cl. 340—17)



1. A seismic vibration detector, comprising, a tubular casing closed at its upper end and having a removable closure for its lower end, a tubular magnet coaxially mounted in the casing, a cylindrical inner pole-piece extending axially through the bore of said magnet, an annular flange integral with the upper end of said inner pole-piece extending laterally between the upper end of said magnet and the closed upper end of said casing, an annular outer pole-piece mounted on the lower end of said magnet concentrically about the lower end portion of said inner pole-piece and annularly spaced therefrom, a tubular sleeve surrounding said inner pole-piece and longitudinally movable relative thereto, the lower portion of said sleeve extending through the annular space between said pole-pieces, resilient support means connecting said sleeve to said flange, an induction coil wound about the portion of said sleeve which extends through said an-

nular space, and a second induction coil fixedly mounted about the outer periphery of said outer pole-piece generally concentric with said first induction coil, said coils being electrically interconnected whereby E. M. F.'s generated in the respective coils by external alternating magnetic fields will effectively balance each other.

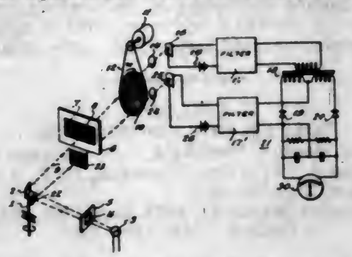
2,651,770
ELECTRONIC TIMER
Walter H. Esselman, Cranford, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 19, 1949, Serial No. 128,353
12 Claims. (Cl. 340—20)



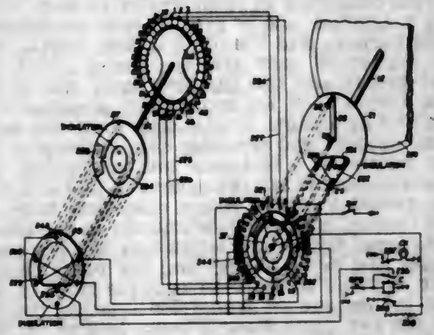
1. In an elevator system for a multi-floor building having an equipment station for equipment employed in the elevator system and a control station displaced by a plurality of floors from the equipment station, an elevator dispatcher comprising an electronic timer disposed in the equipment station, said timer including an electronic discharge device capable of having a discharge produced therein, dispatching means responsive to a discharge in the discharge device, and means adjustably controlling the intervals between discharges in said discharge device, said last-named means comprising a source of alternating current, a circuit extending between said stations for conducting an alternating quantity from the source to the timer, and an adjuster located at the control station for adjusting the value of the alternating quantity supplied by the source to the timer, and means responsive to said alternating quantity for controlling the interval between discharges in the discharge device, the connections of said circuit extending between the stations being insulated from the discharge device.

2,651,771
ANGULAR MOTION DETECTOR AND POSITION INDICATOR
Winslow Palmer, West Hempstead, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application October 14, 1949, Serial No. 121,367
14 Claims. (Cl. 340—190)

1. An angular motion detector and position indicator comprising a plurality of fixed light polarizing devices, a continuously rotating polarizing device, means directing a movable signal light beam and a fixed reference light beam for transmission through said fixed and rotating polarizing devices, said fixed and rotating polarizing devices effecting modulation of the intensity of the signal light beam and the reference light beam passing therethrough such that the phase of the modulation of the signal light beam with respect to the phase of the modulation of the reference light beam varies according to the motion of said movable signal light beam, photo-cell means for receiving said modulated signal and reference light beams, a phase detector connected to be responsive to the outputs of said photo-cell means, and a position indicator controlled from said phase detector for indicating the direction and extent of the motion of said movable signal light beam.

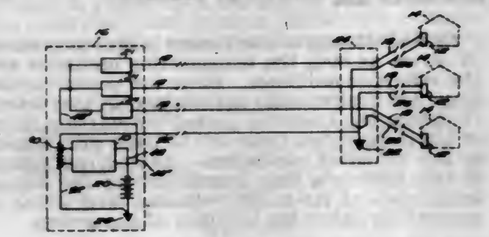


2,651,772
SPEED INDICATING AND RECORDING DEVICE
Ralph W. Hewes and Stuart M. Phelps, Rochester, N. Y., assignors to General Railway Signal Company, Rochester, N. Y.
Application August 5, 1949, Serial No. 108,847
6 Claims. (Cl. 340—268)



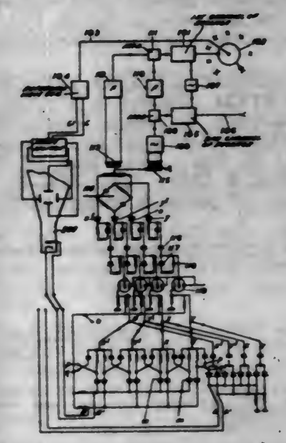
4. In a speed indicating system for indicating the speed of an axle of a vehicle, an axle driven commutator mechanism having contact segments and operable to scan certain contact segments for each revolution of the axle, a motor stator having a pole and associated winding for each of said certain segments, circuit means for selectively energizing the windings for the poles of the stator sequentially in accordance with the scanning of said certain segments by the rotation of said axle driven commutator, whereby a rotating field is set up in said stator by said axle commutator mechanism, a rotor actuated by said rotating field, said rotor having a commutator mechanism, a correspondence relay, manually operable means for initially energizing said correspondence relay, and stick circuit means selectively energized by certain other segments of said axle commutator mechanism and certain segments of said commutator mechanism of said rotor in correspondence for maintaining said correspondence relay steadily energized, only provided said rotor follows the rotation of said axle driven commutator, and indication means actuated by said correspondence relay.

2,651,773
GROUND POTENTIAL COMPENSATOR
Clifford Lee Louden, La Jolla, Calif., assignor to Holmes Electric Protective Company, New York, N. Y., a corporation of New York
Application May 7, 1952, Serial No. 286,647
7 Claims. (Cl. 340—292)



1. A ground potential compensator for an electrical circuit having a signal conductor which carries a current between two ground points and in which signal conductor said current is affected by a difference in ground potential between said points, said ground potential compensator comprising a pilot conductor in parallel with said signal conductor and having a resistor therein, a power source, control tube means drawing power from said source and having a power output proportional to a positive ground potential fed thereto from said resistor, said control tube means being unresponsive to a negative ground potential fed thereto, inverter tube means for converting a negative ground potential fed thereto from said resistor to a positive potential and unresponsive to a positive ground potential so fed, additional control tube means drawing additional power from said power source and having a power output proportinal to the output of said inverter tube means fed thereto, separate amplifier means for amplifying the output of said control tube means and said additional control tube means respectively and having their respective outputs connected to said electrical circuit so as to compensate for the effect therein of said ground potential.

2,651,774
RADIO DIRECTION FINDER
Charles William Earp, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application February 17, 1951, Serial No. 211,522
In Great Britain February 17, 1950
9 Claims. (Cl. 343—120)

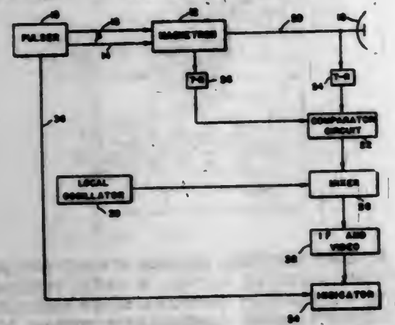


1. A radio direction finding system comprising a circular array of aerials, a radio receiver including a frequency doubling stage operative on the received signal, commutator means for cyclically connecting said receiver to different aerials of said array two aerials at a time, means for locally generating a reference wave, means for synchronising said commutator means with said reference wave, and means for obtaining the bearing of a received signal by phase comparison between the phase of a wave derived from the phase modulation of the received signal energy arising from said cyclical connecting and the phase of said reference wave, said cyclical connecting means being so arranged that the effects in said receiver of the reactions from a re-radiating structure centrally located within said array on the two simultaneously connected aerials cancel each other.

ABSTRACTS OF APPLICATIONS

Published at the request of the applicant or owner in accordance with Notice of January 25, 1949, 619 O. G. 288. The abstracts are identified by serial number of the applications and arranged in chronological order. The heading of each abstract of application published herein indicates the number of pages of specification, including claims, and sheets of drawings contained in the application as originally filed. The files of these applications are available to the public for inspection and photostat copies of them, or any part thereof, may be purchased for 30 cents a sheet.

657,933. MOVING TARGET INDICATING RADAR SYSTEM. Robert T. McCoy, New York, N. Y., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Filed Mar. 29, 1946. Published Sept. 8, 1953. Class 343—8. 1 sheet of drawings. 10 pages of specification.

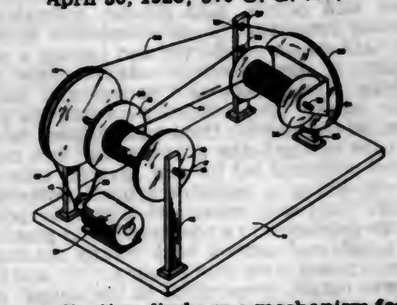


At predetermined times pulser circuit 10 supplies a voltage pulse to the cathode of magnetron 12 and a current pulse to the electromagnet forming a part of magnetron 12 thus causing magnetron 12 to generate high frequency high amplitude exploratory pulses. These pulses are conveyed to antenna 18 by transmission line 20 where they are radiated into space. These pulses are prevented from reaching comparator circuit 22 by T-R devices 24 and 26. In the interim between successive exploratory pulses, pulser circuit 10 supplies a constant voltage and current to magnetron 12 of the proper amplitudes so that magnetron 12 oscillates at a low power level and at the frequency of the exploratory pulses. The power output of magnetron 12 is made relatively low between pulses since only a reference oscillation is required. The output of magnetron 12 is connected to comparator circuit 22 through T-R device 26 which allows the low power signal to pass. The impedances of transmission line 20 connecting magnetron 12 to antenna 18 are so arranged that the high power exploratory pulses are transmitted but the low power reference oscillation is not. Echo signals resulting from the reflection of the exploratory pulse by objects in space are received by antenna 18 and applied to comparator circuit 22 through T-R device 24. The signals from magnetron 12 and from antenna 18 are additively combined in circuit 22 taking due account of phase. Successive signals from each target are compared in any convenient manner so that the only signals resulting from the reflection of the exploratory pulse from moving objects are applied to mixer 28. The signals from comparator circuit 22 beat with the signals from local oscillator 30 so that signals are applied to unit 32 at the intermediate frequency of the system. Unit 32 amplifies and detects the signals received from mixer 28 and applies these signals to indicator 34 where they are displayed in the conventional manner.

One advantage of this system is that magnetron 12 serves as both the transmitting oscillator and the reference oscillator. Since low power oscillations are continuously maintained in magnetron 12 during the receiving period the starting phase of the transmitted pulse will be fixed with respect to the reference oscillation. Another advantage of this system is that comparison of the signals takes place at the radio frequency level which in general simplifies the circuitry of the system.

674,412. COIL. Benjamin B. Scott, Jr., Pittsburgh, Pa. Filed June 5, 1946. Published Sept. 8,1953. Class 242—9. 3 sheets of drawings. 16 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



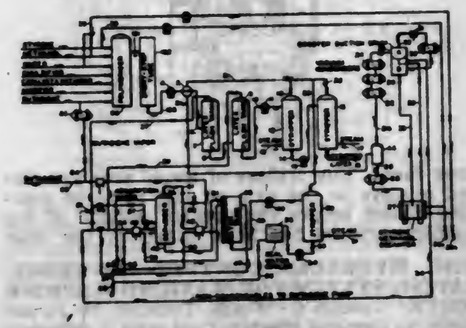
This application discloses a mechanism for pretwisting wire while winding it into a coil so that, as the wire is being coiled it is given a "pretwist" in a direction opposite that in which it is twisted while being stripped axially from the coil.

Wire 51 is wound on the winding reel 17 from the supply reel 35, with a pretwist of 360 degrees for each turn of the winding reel 17, by means of the motor 21 and cord and pulley drive 23, 47, 19, 49 and 29. The winding pulley 19 and pretwist pulley 29 of the same diameter as pulley 19, but disposed perpendicularly thereto, rotate at the same angular velocity, hence the supply reel 35 turns through one complete revolution about the axis of the pulley 29 for every complete revolution of reel 17. One of the spool flanges 18 is removable to permit removal of the wound coil 29.

55,214. PRODUCTION OF SYNTHETIC RUBBER. James E. Troyan, Phillips, and John P. McCanne, Borger, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware. Filed Oct. 18, 1948. Published Sept. 8, 1953. Class 202—46. 2 sheets of drawings. 20 pages of specification.

Methanol and unconverted monomeric reactants present in a latex formed by emulsion polymerization, at temperatures below 0° C., of a monomeric material comprising butadiene, are separated from the latex and recycled to the polymerization step. The amount of methanol present in the latex is sufficient to prevent freezing of the aqueous phase during the polymerization step and generally ranges from 20 to 120 parts by

weight per 100 parts by weight of total monomeric material charged to the polymerization. In a preferred embodiment, illustrated in Fig. 1, this invention is applied to a latex formed by copolymerization of 1,3-butadiene with styrene. In carrying out the preferred embodiment, unreacted butadiene is flashed from the latex in tanks 7 and 9, the residual latex is then steam stripped in strippers 12 and 16 to provide an overhead steam-styrene-methanol fraction, and the last said overhead fraction is condensed in heat exchanger 5 and condensers 22, 23, 24 and 32. Resulting condensate is passed to a separation zone 27. From the separation zone aqueous phase rich in methanol, and organic phase rich in unreacted styrene,



are each separately withdrawn and recycled to the polymerization zone. The flash step is preferably conducted at from 50 mm. Hg abs. to 10 pounds (p. s. i. g.), and the stripping step is preferably conducted at a pressure of from 50–150 mm. Hg abs. employing steam as the stripping agent in a weight ratio to the unreacted styrene in the stripping zone, within the limits of 2:1 to 25:1. In the embodiment illustrated in Fig. 1 a plurality of flash zones and a plurality of stripping zones are employed. In carrying out the flash operation in two steps the first flash step in tank 7 can be conducted at 0–10 p. s. i. g., and the second flash step in tank 9 can be conducted at 50–250 mm. Hg abs. The plurality of stripping steps are carried out at about the same pressure e. g. 50–150 mm. Hg.

137,279. STIFFENING MATERIAL. Horace A. Secrist, Dedham, Mass. Filed Jan. 6, 1950. Published Sept. 8, 1953. Class 117—140. No drawing. 12 pages of specification.

The application discloses a stiffening material capable of being softened and reshaped, as by molding, drawing, or lasting, and subsequently restiffened. The material is composed of a fibrous mass having of itself substantial integrity or coherence by virtue of the intercurling and frictional interlocking of the individual fibers or groups of fibers and one or more rigidizing or stiffening substances, and is useful in box toes and counters of shoes and for other stiffened, shaped articles. The fibrous mass may be for the most part or entirely composed of cotton fibers displaying artificially induced irregular kinks, twists, and bends and the stiffening substances may be thermosensitive or solvent-sensitive, such as phenol-formaldehyde resin, cellulose nitrate, starch, and other resins and plastics. Any suitable fillers and plasticizers may also be used, and the stiffening material may be applied to the fibrous mass from any suitable liquid vehicle, such as water or a volatile organic solvent, or may be applied by calendering.

141,156. 1 - BROMO - 3,3 - DIHALOPROPANE COMPOUNDS AND PROCESS FOR THEIR PREPARATION. Edmund B. Towne and Melvin S. Bloom, Rochester, N. Y. Filed Jan. 28, 1950. Published Sept. 8, 1953. Class 260—652. No drawing. 6 pages of specification.

1-bromo-3,3-dichloropropane and 1,3,3-tribromopropane and a process for their preparation are described.

1-bromo-3,3-dichloropropane and 1,3,3-tribromopropane are prepared by reacting ethylene with bromodichloromethane ($CHBrCl_2$) and bromoform ($CHBr_3$), respectfully, using a free radical as a catalyst. The reaction can be carried out at a temperature ranging from about 40° C. to about 200° C. but temperatures ranging from about 70° C. to about 100° C. appear to be advantageous and are preferred. The reaction can be carried out either as a batch process or continuously and either with or without pressure.

Any source of free radicals can be used. Thus, benzoyl peroxide, acetyl peroxide, di-tertiary-butyl peroxide, benzoyl hydroperoxide, acetyl hydroperoxide, pelargenylperoxide, diethyl peroxide, light, cracking of aldehydes, MgI etc. can be used.

1,3,3-tribromopropane is a heavy, practically colorless liquid with a slight straw color that becomes somewhat deeper on long standing. It has a sharp odor as compared to the sweetish odor of bromoform. It boils at 105° C.–107° C./30 mm., N_D^{17} 1.5714. 1-bromo - 3,3 - dichloropropane is a colorless liquid with a slightly sharp odor. It boils at 65° C.–70° C./20 mm.

1-bromo-3,3-dichloropropane and 1,3,3-tribromopropane are valuable intermediates for the preparation of other compounds. They can be fluorinated with HgF_2 to give 1-bromo-3,3-difluoropropane, a valuable dye intermediate.

The following example is illustrative of the process.

Preparation of 1,3,3-tribromopropane

1000 grams of bromoform and 30 grams of benzoyl peroxide are placed in a 1100 cc. shaking autoclave and ethylene from a pressure cylinder is passed in until a pressure of 700 lbs. per sq. inch is reached. The autoclave is then closed and the reaction mixture is heated at 85° C. for 15 hours after which the autoclave is cooled and the reaction mixture removed and fractionated under a reduced pressure of about 30 mm. 600–700 grams of 1,3,3-tribromopropane boiling at 105° C.–107° C./30 mm. are obtained. Also there are recovered 100–150 grams of bromoform, 20–30 grams of a low boiling liquid and varying amounts of higher boiling dimers and trimers.

144,273. SHAPING TOOL. Alfred T. Myers, Hyattsville, Md. Filed Feb. 15, 1950. Published Sept. 8, 1953. Class 29—57. 1 sheet of drawings. 7 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

The tool comprises a tubular body 1 having an annular head 2 formed thereon and which annular head, in turn, is formed with a pair of endwise extensions 3 and 4, in opposed, slightly offset relation with one another. The tubular body has positioned therein a tubular drill holder 5 in which a drill 6 is positioned. The drill holder 5 is held in place by a set screw 7 and the drill is held in the holder by means of a set screw 8. The outer end of the drill holder, as seen in Fig. 2, may be provided with cutting edges 9. It may be remarked here that such cutting edges in some holders project beyond the outer annular edge of the drill holder, for which reason the head 2 may

be formed with a central countersunk area, indicated at A, for accommodating such projecting cutting edges. The operating end of the drill 6 extends beyond this cutting end of the drill holder, as clearly seen in Fig. 1, in accordance with the desired depth of the crater or cavity to be formed.

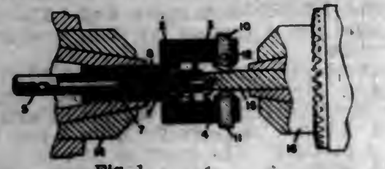


Fig. 1



Fig. 2

The opposed extensions 3 and 4 are provided with transverse openings through which cutters 10 and 11 extend, these cutters being adjustably positioned by means of set screw 12, one on each extension 3 and 4, which make it possible to advance or retract the cutters relative to one another.

158,075. **TOBACCO ARTICLE.** Jack DeMent, Portland, Oreg. Filed Apr. 25, 1950. Published Sept. 8, 1953. Class 131—17. No drawing. 9 pages of specification.

The disclosure relates to an ash strengthener for tobacco products and comprises in treating whole leaf, shredded or particles of tobacco and/or cigarette papers with an ash stabilizer.

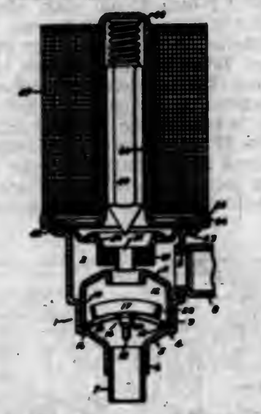
The ash stabilizer comprises water solutions of such compounds as polyvinyl alcohol, methyl cellulose ether, and certain natural gums and resins such as gum acacia and tragacanth, the concentration varying from a few tenths of one per cent to several per cent.

The ash stabilizer comprising a .5 to 2.0 per cent water solution of polyvinyl alcohol or methyl cellulose ether may be mixed with the flavoring and incorporated with the tobacco in the conventional manner, or these percentages may be incorporated in the flavoring base itself instead of water.

Optionally, the ash stabilizer may be applied by spraying or by dipping the tobacco product thereinto.

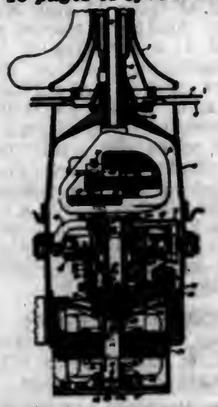
164,404. **FLOW CONTROL DEVICE.** Theodore P. Kessler, Burlington, N. J., assignor to General Electric Company, a corporation of New York. Filed May 26, 1950. Published Sept. 8, 1953. Class 138—43. 2 sheets of drawings. 13 pages of specification.

This application discloses a device for maintaining a substantially constant discharge rate from a conduit or the like under conditions of varying fluid pressure therein. A rigid member 15 is secured within flow conduit 10 transversely in the line of flow with a convex face directed upstream in this conduit. A plurality of orifices 21 in the line of flow are disposed at least in part within the convex face of member 15, and radially outward from the axis thereof. Certain of the orifices are of relatively small area with respect to other orifices. A resilient disk 17 has a stem portion 18 penetrating rigid member 15 at its axis to flexibly support the disk upstream of the rigid member and coaxial therewith. Disk 17 normally has a substantially flat surface facing the convex portion of member 15, and flexes under the influence of pressure differential on opposite sides of member 15 to close portions of the orifices by contact with adjacent surface areas of the



convex face. The orifices of lesser area are disposed relative to the axis of disk 17 to be completely closed before the greater portion of the remaining orifices has been closed by the disk.

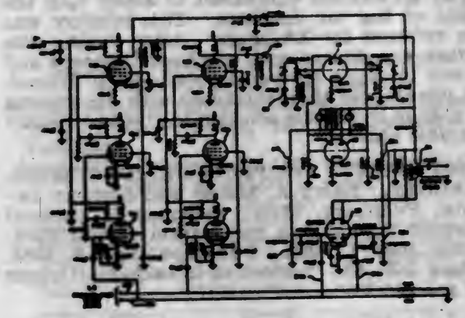
188,151. **HYDRAULIC CONTROL AND LUBRICATING SYSTEM FOR WASHING MACHINE DRIVE.** Joseph C. Worst, Trenton, N. J., assignor to General Electric Company, a corporation of New York. Filed Oct. 3, 1950. Published Sept. 8, 1953. Class 60—52. 2 sheets of drawings. 18 pages of specification.



This application relates to a combined hydraulic actuating mechanism control and lubricating system for an automatic washer. It comprises a pump 60 supplied with lubrication liquid by a means 62 from a reservoir. The pump outlet communicates with a pressure passage 66 communicating with a hydraulic actuating mechanism 34 and a distribution passage 62 for conducting lubricant from the pump outlet for lubrication and cooling. Distribution passage 62 has a flow capacity relative to pump capacity sufficient to establish a pressure condition in said pressure passage below the operating pressure of the hydraulic mechanism. Valve means 68 in the distribution passage is operable to restrict flow therethrough to effect a rise in hydraulic pressure for operation of hydraulic mechanism 34. Valve 68 includes a spring pressed valve disc responsive to pressure greater than the requirements of the hydraulic mechanism to pass liquid into the distribution passage. A solenoid is provided for operating the valve to open and closed positions.

200,272. **DIVERSITY RECEPTION SYSTEM.** Donald Lorie Jacoby, Long Branch, N. J., assignor to United States of America as represented by the Secretary of the Army. Filed Dec. 11, 1950. Published Sept. 8, 1953. Class 250—20.7. 1 sheet of drawings. 6 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



The system shown comprises a switch for a diversity receiving system. A pair of I. F. signals are applied at 10*a* and 10*b* to the respective amplifying channels comprising tubes 11*a*, 12*a*, 14*a* and 11*b*, 12*b*, 14*b*. The output of the channels is detected at 15*a* and 15*b*, respectively, and applied to a grid of tube 16. Detected signals of sufficient magnitude overcome the grid voltage bias on tube 16 to render the corresponding side of it conductive. A double stability flip-flop circuit 19 is actuated by the output tube 16 so as to bias that grid of tube 16 positively to which detected signals of relatively larger magnitude are applied and to bias beyond cut off that grid to which relatively smaller signals are applied. This enables passage of the larger intermediate frequency signal only from 10*a* or 10*b* through gate 23 to output transformer 25.

214,621. **BORANE FUEL NOZZLES,** Johann G. Tschinkel, Huntsville, Ala. Filed Mar. 8, 1951. Published Sept. 8, 1953. Class 60—39.46. 1 sheet of drawings. 4 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



When boranes and other inflammable inorganic substances are used as fuel components in jet propulsion motors, they react readily with oxygen and oxygen containing materials to produce solid deposits which are highly undesirable as they tends to clog the fuel supply equipment, particularly the injection nozzles. The device described herein is designed to overcome this difficulty by causing the borane component nozzle to be surrounded with a blanket of the bulk fuel used, such as gasified hydrocarbons, to shield the nozzle before combustion is completed thus avoiding premature oxidation of the boranes present.

The burner assembly is composed of a tubular conduit 10, flared at the nozzle end 56, and partially encased in an annular jacket 30 which terminates a short distance from the end of the tubular conduit in an outwardly directed flange 40. The annular jacket is provided with an inlet pipe 20, at the end opposite to the flanged end, through which the gasified hydrocarbons are admitted to the annular space between the conduit 10 and the jacket 30 and from which they are projected annularly around the borane nozzle prior to combustion.

223,547. **TRANSISTOR DEVICES.** Bernard N. Slade, Morristown, and George M. Rose, Jr., East Orange, N. J., assignors to Radio Corporation of America, a corporation of Delaware. Filed Apr. 28, 1951. Published Sept. 8, 1953. Class 317—235. 3 sheets of drawings. 26 pages of specification.

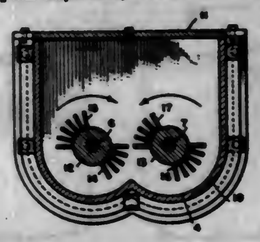


The device disclosed comprises a point contact transistor including a semiconductor crystal 15 soldered to a base electrode 16 and two pointed electrodes 23 and 24 in rectifying contact with one surface thereof. The crystal and its electrodes are supported on rods 12, 13 and 14 which are sealed in a glass stem. After the aforementioned component parts have been assembled, the transistor is potted in a thermosetting resin such as Araldite which comprises an epoxy resin including condensation products of polyarylepoxy-ethane compounds or including compounds having epoxy-ethane groups at both ends of a carbon chain. The resin is then allowed to harden and the housing is removed.

The transistor may be potted by introducing the fluid Araldite into an opening 26 in a metallic housing 25 surrounding the device. Alternatively a gelatin capsule may surround the device and function as the mold for the resin. After the Araldite has hardened, the capsule may be dissolved in hot water.

267,902. **COTTONSEED MIXER.** Madeline G. Lambou, Robert E. O'Connor, and Edith A. Jensen and Peter A. Laughlin, Jr., New Orleans, La., assignors to the United States of America as represented by the Secretary of Agriculture. Filed Jan. 23, 1952. Published Sept. 8, 1953. Class 259—104. 1 sheet of drawings. 8 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



This invention relates to a mixing machine which mixes cottonseed rapidly without damaging the seed, and which uniformly brings them into contact with heated surfaces to provide a

method for heating the seed in a short interval. The apparatus comprises a receptacle having a rectangular plan cross section, the bottom inner surface of which is divided into two parallel troughs separated by an upraised center line. A pair of parallel drums, one in each trough and coaxial therewith, is provided within the receptacle. Each drum is provided with two series of radially extended rods so disposed that each series consists of equidistant rods positioned spirally around the surface of the drums, with the outer end rod of each series being in advance of the other rods in its series as the drums are rotated centrally downward. A heating jacket is provided around the longitudinal side walls and bottom of the receptacle.

283,482. **METHOD FOR THE RECOVERY OF TAR ACIDS.** Julian Feldman, Pittsburgh, Pa. Filed Apr. 21, 1952. Published Sept. 8, 1953. Class 260—627. No drawing. 9 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

A method is described for improving the recovery of tar acids by preventing the formation of emulsions during caustic extraction. It is particularly applicable to the recovery of tar acids from low carbonization products of low rank coals, and especially to fractions boiling above 250° C.

Usual caustic extractions of tar acids are sometimes complicated by the formation of emulsions which render it difficult or impossible to separate the extract phase from the raffinate. These emulsions are apparently caused by the presence of relatively high molecular carboxylic acids, particularly higher molecular weight aliphatic acids containing ten to thirty carbon atoms, in the material being extracted. The alkali metal soaps of these acids are good emulsifiers.

The formation of these emulsions is avoided by heating the tar-acid containing materials, preferably at 80° to 150° C. and in a hydrocarbon solvent, under substantially anhydrous conditions with an alkali metal carbonate or bicarbonate or bicarbonate prior to caustic extraction. Anhydrous conditions are said to be essential. Alkali metal carboxylates are formed which, being relatively insoluble in organic media, can be separated off by filtration or centrifuging. A treatment time of from 1 to 5 hours is satisfactory. The remaining tar acid containing material is then extracted with aqueous caustic alkali to recover the tar acids.

Example

A fraction boiling between 300° and 400° C. (760 mm. Hg) obtained by vacuum distilling a filtered tar obtained by the low temperature carbonization of lignite was dissolved in about twice its volume of benzene. Substantially anhydrous solid sodium bicarbonate was added to this solution in an amount equivalent to about ⅛th the weight of the tar distillate. This mixture was then refluxed for 2.5 hours. After cooling, the mixture was diluted with additional benzene and allowed to stand several days and then filtered. The filtrate was then extracted with an aqueous 5% sodium hydroxide solution to give two readily separable phases.

292,366. **SAFETY COUPLING DEVICE FOR OIL GAUGES.** Harry A. Mayor and Stephen Jacobs, Fitchburg, Mass., assignors to General Electric Company, a corporation of New York. Filed June 7, 1952. Published Sept. 8, 1953. Class 138—42. 1 sheet of drawings. 7 pages of specification.

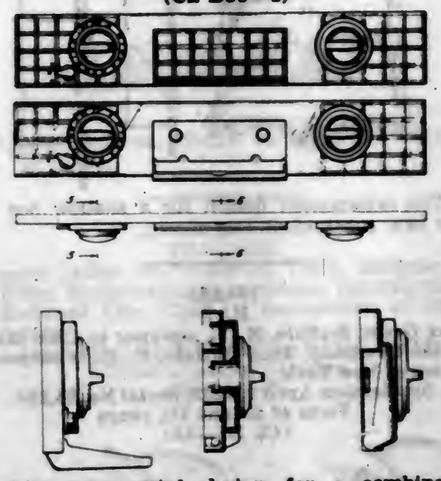


This application relates to a safety fitting adapted to be interposed between the threaded coupling of an oil gage or similar device and the lubricating oil line of a high-temperature turbine. The fitting has an inlet chamber and an outlet chamber connected by a restricted orifice. In the event the threaded coupling fails, by fatigue due to vibration, the pressure drop of the lubricating oil occurs at the orifice and the kinetic energy of the jet resulting therefrom is dissipated in the discharge chamber. This prevents a high velocity jet of oil from being projected onto hot turbine parts, with resulting danger of fire.

DESIGNS

SEPTEMBER 8, 1953

170,347
COMBINATION RADIO-TELEVISION CABINET CONTROL PANEL
Samuel E. Adler, Chicago, Ill., assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application February 12, 1953, Serial No. 23,579
Term of patent 14 years
(Cl. D56—4)



The ornamental design for a combination radio-television cabinet control panel, as shown and described.

170,348
PILLOW DOLL
Hilliard Aronov, Montgomery, Ala., assignor to Fabric's Inc., Montgomery, Ala.
Application May 7, 1953, Serial No. 24,895
Term of patent 14 years
(Cl. D34—4)



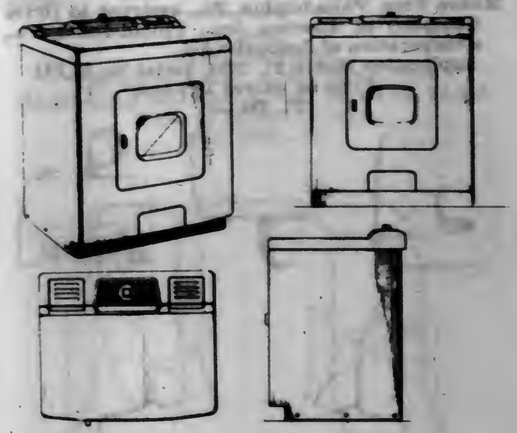
The ornamental design for a pillow doll, as shown.

170,349
EAR ORNAMENT OR SIMILAR ARTICLE
Louis Bell, Roxbury, Mass.
Application May 27, 1953, Serial No. 25,196
Term of patent 14 years
(Cl. D45—9)



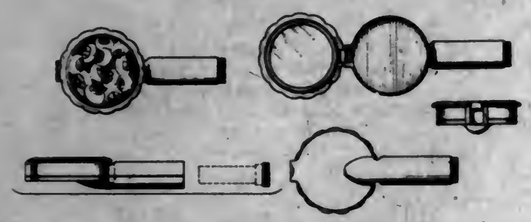
The ornamental design for an ear ornament or similar article, substantially as shown.

170,350
LAUNDRY DRIER
Howard L. Bourner, Nashville, Tenn., assignor to Temco, Inc., Nashville, Tenn., a corporation of Tennessee
Application November 26, 1952, Serial No. 22,458
Term of patent 14 years
(Cl. D49—1)



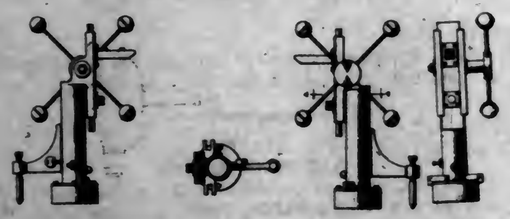
The ornamental design for a laundry drier, as shown.

170,351
COMBINED LIPSTICK HOLDER AND VANITY CASE OR SIMILAR ARTICLE
Frederick M. Breen, Westchester, N. Y., assignor to Coty, Inc., New York, N. Y., a corporation of Delaware
Application April 16, 1953, Serial No. 24,540
Term of patent 14 years
(Cl. D86—10)



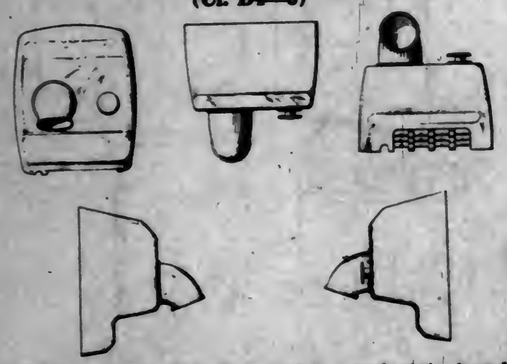
The ornamental design for a combined lipstick holder and vanity case or similar article, substantially as shown and described.

170,352
DRILL MOUNTING STAND
Eugene W. Buck, Campbell, Calif., assignor of one-third to Antonio Cano, Santa Clara, Calif.
Application September 2, 1952, Serial No. 21,286
Term of patent 14 years
(Cl. D63—1)



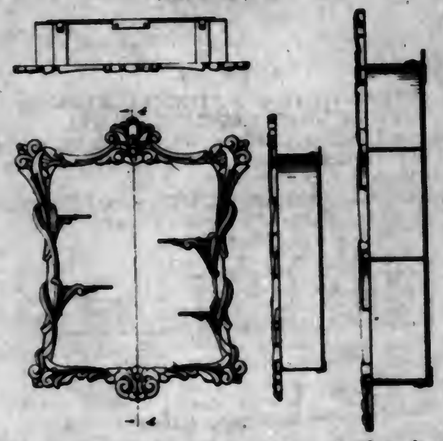
The ornamental design for a drill mounting stand, as shown.

170,353
ELECTRIC HAND DRIER
Milton Fine, Philadelphia, Pa., assignor to Dryer Company of America, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application March 27, 1953, Serial No. 24,231
Term of patent 14 years
(Cl. D4—3)



The ornamental design for an electric hand drier, as shown.

170,354
SHADOW BOX
George Gast, Chicago, Ill., assignor to Superior Plastics Inc., Chicago, Ill., a corporation of Delaware
Application January 21, 1953, Serial No. 23,206
Term of patent 14 years
(Cl. D32—3)



The ornamental design for a shadow box or the like, substantially as shown.

170,355
HAT
Max Gross, Buffalo, N. Y., assignor to Chic Maid Hat Company, Inc., Buffalo, N. Y., a corporation of New York
Application April 1, 1953, Serial No. 24,296
Term of patent 3½ years
(Cl. D3—13)



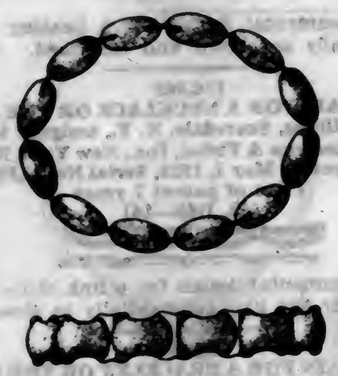
The ornamental design for a hat, substantially as shown and described.

170,356
MOTORCYCLE SADDLEBAG
William J. Harley, Milwaukee, Wis., assignor to Harley-Davidson Motor Co., Milwaukee, Wis., a corporation of Wisconsin
Application October 18, 1952, Serial No. 21,887
Term of patent 7 years
(Cl. D90—3)



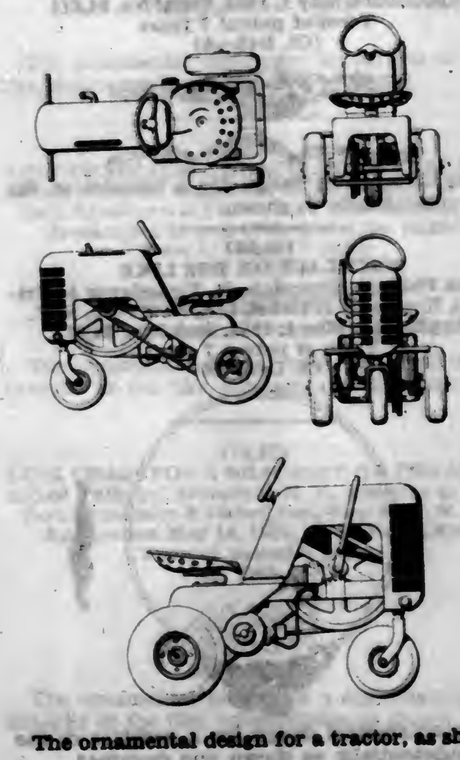
The ornamental design for a motorcycle saddlebag, as shown.

170,357
CHILD'S TEETHER TOY
Robert M. Hayes, Weston, Mass.
Application February 20, 1953, Serial No. 23,711
Term of patent 14 years
(Cl. D62—8)



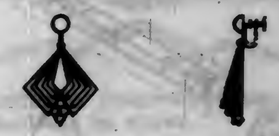
The ornamental design for a child's teether toy, as shown.

170,358
TRACTOR
Stanley Hiller, Jr., Atherton, Calif., assignor to Hiller Engineering Corporation, Incorporated, Redwood City, Calif., a corporation of California
Application April 8, 1953, Serial No. 24,413
Term of patent 14 years
(Cl. D14—3)



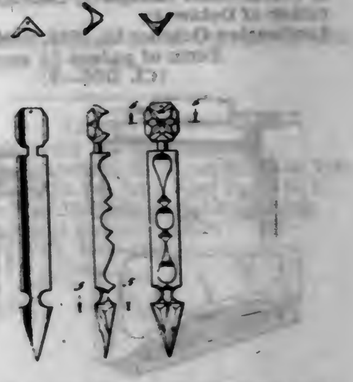
The ornamental design for a tractor, as shown.

170,359
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 9, 1953, Serial No. 25,462
Term of patent 7 years
(Cl. D45—9)



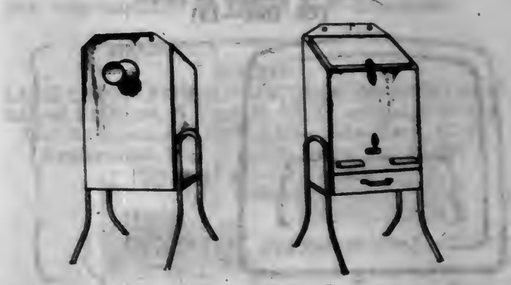
The ornamental design for an earring or the like, substantially as shown.

170,360
LAMP PENDANT
Irving Levin, New York, N. Y.
Application January 31, 1952, Serial No. 18,316
Term of patent 14 years
(Cl. D48—3)



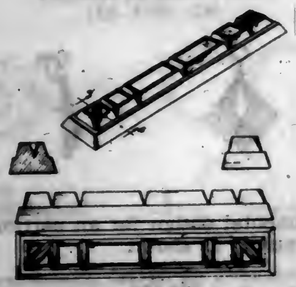
The ornamental design for a lamp pendant, as shown.

170,361
INCINERATOR
Edward W. Lyons, Youngstown, Ohio
Application December 4, 1952, Serial No. 22,549
Term of patent 14 years
(Cl. D61—1)



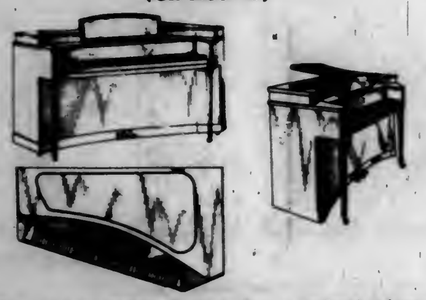
The ornamental design for an incinerator, as shown.

170,362
CANDY BAR OR SIMILAR ARTICLE
Edmond Opler, Hinsdale, Ill., assignor to World's Finest Chocolate, Inc., Chicago, Ill., a corporation of Illinois
Application September 13, 1952, Serial No. 21,448
Term of patent 14 years
(Cl. D62—2)



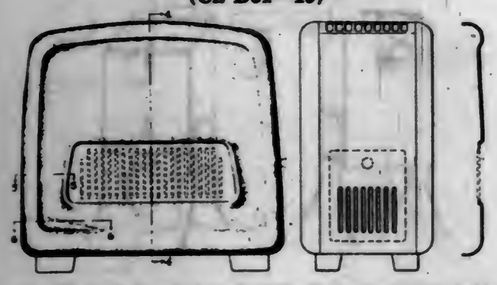
The ornamental design for a candy bar or similar article, substantially as shown.

170,363
SPINET PIANO OR SIMILAR ARTICLE
Joseph Palma, Jr., Chicago, Ill., assignor to Story & Clark Piano Company, Chicago, Ill., a corporation of Delaware
Application October 29, 1952, Serial No. 22,032
Term of patent 14 years
(Cl. D56—9)

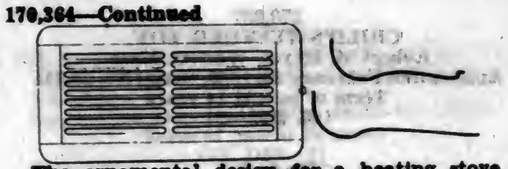


The ornamental design for a spinet piano or similar article, substantially as shown.

170,364
HEATING STOVE
Chester C. Perry, Chagrin Falls, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a corporation of Ohio
Application January 25, 1952, Serial No. 18,222
Term of patent 14 years
(Cl. D61—19)



170,364—Continued



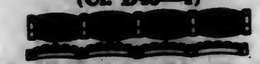
The ornamental design for a heating stove, substantially as shown and described.

170,365
LINK CHAIN FOR A NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 1, 1953, Serial No. 24,809
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a link chain for a necklace or the like, substantially as shown.

170,366
LINK CHAIN FOR A BRACELET OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 1, 1953, Serial No. 24,810
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a link chain for a bracelet or the like, substantially as shown.

170,367
BRACELET OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 1, 1953, Serial No. 24,811
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet or the like, substantially as shown.

170,368
NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 1, 1953, Serial No. 24,813
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

170,369
NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 1, 1953, Serial No. 24,814
Term of patent 7 years
(Cl. D45—16)



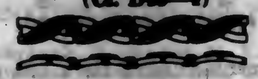
The ornamental design for a necklace or the like, substantially as shown and described.

170,370
EARRING OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 6, 1953, Serial No. 24,881
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

170,371
LINK CHAIN FOR A BRACELET OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 6, 1953, Serial No. 24,886
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a link chain for a bracelet or the like, substantially as shown.

170,372
LINK CHAIN FOR A BRACELET OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 18, 1953, Serial No. 25,059
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a link chain for a bracelet or the like, substantially as shown.

170,373
BRACELET OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 18, 1953, Serial No. 25,061
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet or the like, substantially as shown.

170,374
BRACELET OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 18, 1953, Serial No. 25,063
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet or the like, substantially as shown.

170,375
NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 18, 1953, Serial No. 25,064
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

170,376
LINK CHAIN FOR A NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 18, 1953, Serial No. 25,065
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a link chain for a necklace or the like, substantially as shown.

170,377
NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 18, 1953, Serial No. 25,067
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

170,378
NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 18, 1953, Serial No. 25,068
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

170,379
NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 18, 1953, Serial No. 25,069
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

170,380
LINK CHAIN FOR A NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 18, 1953, Serial No. 25,070
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a link chain for a necklace or the like, substantially as shown.

170,381
LINK CHAIN FOR A NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 18, 1953, Serial No. 25,071
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a link chain for a necklace or the like, substantially as shown.

170,382
LINK CHAIN FOR A NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 18, 1953, Serial No. 25,073
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a link chain for a necklace or the like, substantially as shown.

170,383
LINK CHAIN FOR A NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 18, 1953, Serial No. 25,074
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a link chain for a necklace or the like, substantially as shown.

170,384
LINK CHAIN FOR A NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 18, 1953, Serial No. 25,075
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a link chain for a necklace or the like, substantially as shown.

170,385
EARRING OR THE LIKE
Alfred Philippe, Scarsdale, N. Y.
Application June 19, 1953, Serial No. 25,560
Term of patent 7 years
(Cl. D45—9)



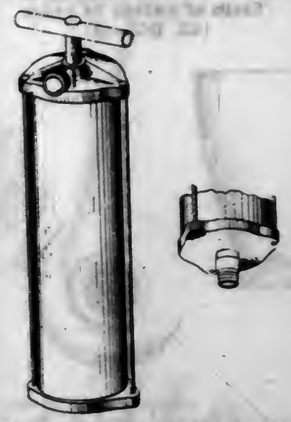
The ornamental design for an earring or the like, substantially as shown.

170,386
COMBINATION METAL AND PLASTIC SPECTACLE FRONT
John J. Rohrbach, Rochester, N. Y., assignor to Shuron Optical Company, Inc., Geneva, N. Y., a corporation of New York
Application February 16, 1952, Serial No. 18,547
Term of patent 14 years
(Cl. D57—1)



The ornamental design for a combination metal and plastic spectacle front, substantially as shown and described.

170,387
PUMP
Linus E. Russell, Springfield, Ohio
Application October 1, 1952, Serial No. 21,664
Term of patent 14 years
(Cl. D45—1)



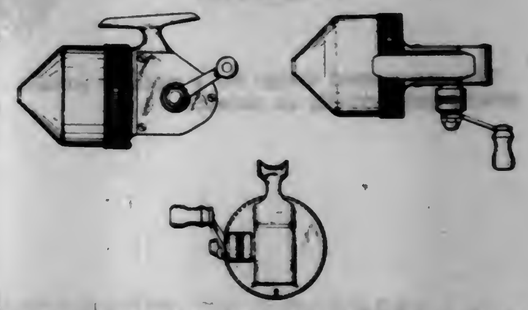
The ornamental design for a pump, substantially as shown and described.

170,388
EXPANSIBLE LINK CHAIN FOR A BRACELET OR THE LIKE
John V. Saccone, Lodi, N. J., assignor to Swiss Watch Dial Co., Inc., New York, N. Y., a corporation of New York
Application October 6, 1951, Serial No. 16,860
Term of patent 14 years
(Cl. D45—4)



The ornamental design for an expansible link chain for a bracelet or the like, as shown and described.

170,389
FISHING REEL
Henry G. Shakespeare and Gerald D. Harrington, Kalamazoo, Mich., assignors to Shakespeare Company, Kalamazoo, Mich., a corporation of Michigan
Application December 3, 1951, Serial No. 17,594
Term of patent 14 years
(Cl. D31—4)



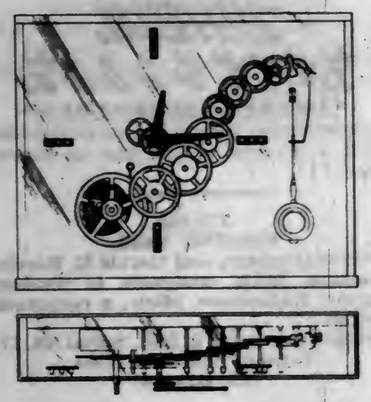
The ornamental design for a fishing reel, as shown.

170,390
TUMBLER OR SIMILAR ARTICLE
French Eugene Smith, Akron, Ohio, assignor to Imperial Glass Corporation, Bellaire, Ohio, a corporation of Ohio
Application February 24, 1953, Serial No. 23,762
Term of patent 14 years
(Cl. D38—8)



The ornamental design for a tumbler or similar article, substantially as shown.

170,391
CLOCK OR SIMILAR ARTICLE
Peter Taller, New York, N. Y.
Application August 20, 1952, Serial No. 21,122
Term of patent 14 years
(Cl. D42—7)



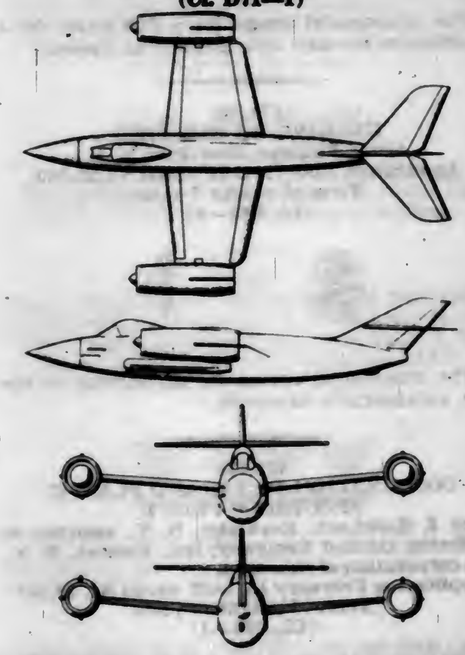
The ornamental design for a clock or similar article, substantially as shown.

170,392
ASH TRAY
Stephen C. Wenta, Boulder City, Nev.
Application April 20, 1953, Serial No. 24,568
Term of patent 14 years
(Cl. D85—3)



The ornamental design for an ash tray, as shown and described.

170,393
AIRPLANE
Robert J. Woods, Grand Island, N. Y., assignor to Bell Aircraft Corporation, Wheatfield, N. Y.
Application May 2, 1953, Serial No. 19,559
Term of patent 3½ years
(Cl. D71—1)



The ornamental design for an airplane, as shown.

September 15, 1953 Volume 674 Number 3

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce
SINCLAIR WEEKS, *Secretary*

U. S. Patent Office
ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business Aug. 28, 1953

Total number of patent applications awaiting action, 102,096. Date of oldest new application, November 3, 1952; date of oldest amended application, November 4, 1952.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) KEELY, J. E.			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	12-16-52	12-16-52	1390
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	12-1-52	11-26-52	1224
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	1-5-53	1-5-53	1940
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	12-11-52	12-11-52	1534
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	12-17-52	12-17-52	983
6. SURLE, H., Carbon Chemistry (part)	11-3-52	11-4-52	2700
7. GONSALVES, J. E., Optics; Photography (part)	12-12-52	12-12-52	1768
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	12-22-52	12-22-52	1585
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	12-11-52	12-8-52	1268
10. REYNOLDS, E. R. (NEFF, P. R., Acting), Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	1-2-53	1-6-53	1226
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clinching; Cutlery; Cleaning and Liquid Treatment of Solids.	12-12-52	12-16-52	1144
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	12-1-52	12-1-52	1283
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	11-10-52	11-15-52	1312
14. MANIAN, J. C., Fluid Pressure Brake; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	12-26-52	12-17-52	1477
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	11-26-52	11-22-52	1401
16. LOVEWELL, N. N., Television; Telephony; Recorders	12-2-52	12-2-52	1787
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	12-10-52	12-10-52	1300
18. KURZ, J. A., Power Plants; Speed Responsive Devices	1-7-53	12-24-52	721
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	12-4-52	12-2-52	1158
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	12-29-52	12-26-52	1272
21. MADER, R. C., Textiles	12-2-52	12-2-52	1414
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	12-17-52	12-18-52	1026
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	11-25-52	12-26-52	945
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing	2-2-53	2-3-53	1077
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	11-21-52	11-21-52	1324
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	12-29-52	12-29-52	1989
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	12-12-52	12-17-52	1244
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	12-22-52	12-31-52	1163
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	12-4-52	11-26-52	1074
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	2-3-53	2-4-53	1306
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	11-24-52	11-24-52	2002
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	1-2-53	12-30-52	1289
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	12-9-52	12-2-52	1902
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	11-28-52	11-26-52	1303
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	1-21-53	1-15-53	1215
36. McFADYEN, A. D., Measuring and Testing	12-12-52	12-17-52	1111
37. LEVY, M. L., Electricity-Switches, Welding, Heating	1-6-53	1-13-53	1694
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	12-29-52	1-2-53	1537
39. WEIL, L., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	2-2-53	2-2-53	1036
40. DRUMMOND, E. J., Receptacles (part); Packages	2-6-53	2-2-53	979
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets: Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	1-6-53	12-24-52	1007

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors.	12-1-52	12-2-52	2095
43. KNIGHT, W. G. (Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	11-20-52	11-22-52	1889
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	12-24-52	12-22-53	1373
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	12-3-52	11-26-52	1176
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	12-1-52	12-2-52	1636
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	11-24-52	11-26-52	2161
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	12-17-52	12-12-52	1426
50. BENGEL, W. G., Synthetic Resins; Rubber	2-24-53	2-20-53	1708
51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics.	12-16-52	12-20-52	1609
52. WHITNEY, F. L., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	1-6-53	1-8-53	1994
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	12-17-52	1-5-53	1023
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	12-11-52	12-11-53	1816
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	12-19-52	12-24-52	1024
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	1-12-53	1-7-53	1224
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	12-26-52	12-10-52	1761
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	12-2-52	12-1-52	1414
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	12-27-52	12-23-53	1372
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	1-15-53	11-25-52	994
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	1-9-53	1-5-53	1201
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	12-1-52	12-1-53	2010
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	12-11-52	12-10-52	1713
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, L., Geometrical Instruments; Automatic Weighers; Weighing Scales	1-5-53	1-7-53	801
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	12-31-52	1-8-53	1650
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	1-7-53	1-7-53	1494
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Illumination	12-6-52	12-3-52	1737
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	11-10-52	11-5-52	3606
DESIGNS: A—BREHM, G. L., Industrial Arts	4-17-53	4-23-53	1038
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	4-27-53	5-1-53	917

Number of new applications received week ending July 31, 1953

PATENTS 1,501 DESIGNS 87 REISSUES 6 TOTAL 1,594

Total number of trade-mark applications awaiting action (including renewals and republications), 11,191.
Date of oldest new application, March 30, 1953; date of oldest amended application, April 3, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	4-6-53	4-3-53	2874
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	3-30-53	4-3-53	2772
Renewals (All Classes)	6-26-53	7-29-53	386
Republications (All Classes)	6-24-53	8-11-53	267
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	4-10-53	4-16-53	2447
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	4-10-53	4-9-53	2445

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

AaBe Wollenstoffen- en Wollendekenfabrieken N. V., Tilburg, Netherlands. Woollen blankets. Serial No. 637,561–2, Sept. 15. Class 42.

Actual Lure Co., Inc., The, New York, N. Y. Fish lures. Serial No. 632,106, Sept. 15. Class 22.

Akhtar, Jamil, doing business as India Cosmetic Co., Detroit, Mich. Incense. Serial No. 639,975, Sept. 15. Class 6.

Alliance Valve Company: *See*—
Hively, Vern J.

Alton Laboratories, Inc., Chicago, Ill. Ready mixed paints. Serial No. 607,919, Sept. 15. Class 16.

Aluminum Foils, Inc., New York, N. Y. Metal sheets and particularly foils of aluminum and aluminum alloys. Serial No. 630,371, Sept. 15. Class 14.

Auto-Bet Co.: *See*—
Marquette, Arthur F.

Baltimore-Washington Childrens Wear Show, Inc., Baltimore, Md. Advertising the goods of others. Serial No. 599,925, Sept. 15. Class 101.

Bank of America National Trust and Savings Association, San Francisco, Calif. Commercial, savings, loan and trust department banking services. Serial No. 635,627, Sept. 15. Class 102.

Barash Company, Inc., The, New York, N. Y. Combination of 100% leather fibres and a saturant latex. Serial No. 642,518, Sept. 15. Class 1.

Bay State Optical Company, Westbury, N. Y. Ophthalmic frames and mountings. Serial No. 641,492, Sept. 15. Class 26.

Beaumart Co., New York, N. Y. Ladies' and misses' dresses. Serial No. 645,690, Sept. 15. Class 39.

Beauty Counselors, Inc., Grosse Pointe, Mich. Nail polish, nail polish remover, cuticle cleanser, etc. Serial No. 636,059, Sept. 15. Class 51.

Bellco Glass, Inc., Vineland, N. J. Laboratory and scientific glassware. Serial No. 642,931, Sept. 15. Class 26.

Bio-Supply Co.: *See*—
Wilson, Kent H.

Bishop, Hazel, Inc., New York, N. Y. Lipsticks and liquid creme rouge. Serial No. 627,042, Sept. 15. Class 51.

Bloom, Charles, Inc., New York, N. Y. Fabrics in the piece. Serial No. 640,667, Sept. 15. Class 42.

Bogan, Felix K., Plantsville, Conn. Rubber sponge-floor mops. Serial No. 623,588, Sept. 15. Class 29.

Bologna, A., & Company, New Orleans, La. Wines. Serial No. 615,682, Sept. 15. Class 47.

Bond-Howell Lumber Company, assignor to Con-Dor Corporation of America, Jacksonville, Fla. Packaged door units. Serial No. 635,682, Sept. 15. Class 12.

Bourke, Holland & Miller, Inc., New York, N. Y., now by change of name Envoys, Incorporated. Advertising services. Serial No. 596,069, Sept. 15. Class 101.

Brite Side Products: *See*—
Strausser, Curtiss G.

Bronson, Louis D., doing business as Franklin Optical Co., Franklin Square, N. Y. Binocular magnifying lenses. Serial No. 627,802, Sept. 15. Class 26.

Brown, E. C., Co., The, Canandaigua, N. Y. Hand-operated pump type sprayers, and parts therefor. Serial No. 642,612, Sept. 15. Class 23.

Brown, E. C. Co., The, Canandaigua, N. Y. Hand-operated pump type sprayers, and parts therefor. Serial No. 643,283, Sept. 15. Class 23.

Bryant, Jayne, Chicago, Ill. Restraining blankets or sheets. Serial No. 633,485, Sept. 15. Class 44.

Buckeye Brewing Co., The, Toledo, Ohio. Ale. Serial No. 642,522, Sept. 15. Class 48.

Burke Golf Equipment Corporation, Newark, Ohio. Golf balls. Serial No. 628,466, Sept. 15. Class 22.

Burke Golf Equipment Corporation, Newark, Ohio. Golf clubs and golf balls. Serial No. 632,072, Sept. 15. Class 22.

Burke Golf Equipment Corporation, Newark, Ohio. Golf clubs. Serial No. 632,073, Sept. 15. Class 22.

Burlington Mills Corporation, Greensboro, N. C. Textile ribbons. Serial No. 601,018, Sept. 15. Class 42.

Cabral-Duncan-Jones, Providence, R. I. Religious grooved phonograph records. Serial No. 629,283, Sept. 15. Class 36.

California Cellars, doing business as Napa & Sonoma Wine Co., Sonoma and San Francisco, Calif. Wines. Serial No. 642,942, Sept. 15. Class 47.

Capp, M., Manufacturing Co.: *See*—
Capp, Martin.

Capp, Martin, doing business as M. Capp Manufacturing Co., Minneapolis, Minn. Prefabricated, or pre-cut homes. Serial No. 632,918, Sept. 15. Class 12.

Celanese Corporation of America, assignee: *See*—
Marco Chemicals, Inc.

Chemstrand Corporation, The, Decatur, Ala. Yarns, threads, and yarn and thread filaments. Serial No. 638,134, Sept. 15. Class 43.

Chichester Chemical Co., Philadelphia, Pa. Product for the relief of menstrual pain. Serial No. 641,657, Sept. 15. Class 18.

Coggins, George B., Asheville, N. C. Disposable apertured facial masks. Serial No. 605,297, Sept. 15. Class 44.

Colonial Sales Corporation, Columbus and Worthington, Ohio. Paint bucket supporting bracket. Serial No. 643,030, Sept. 15. Class 13.

Columbus Show Case Company, The, Columbus, Ohio. Show and display cases. Serial No. 642,462, Sept. 15. Class 32.

Con-Dor Corporation of America, assignee: *See*—
Bond-Howell Lumber Company.

Congoleum-Nairn Inc., Kearny, N. J. Flexible floor and wall coverings. Serial No. 630,478, Sept. 15. Class 20.

Consolidated Cosmetics, Chicago, Ill., assignor, by mesne assignments, to Les Parfums de Dana, Inc., New York, N. Y. Beauty shop services. Serial No. 529,749, Sept. 15. Class 100.

Continental Casualty Company, Chicago, Ill. Underwriting of group health and accident insurance. Serial No. 641,175, Sept. 15. Class 102.

Contress, Inc., New York, N. Y. Hair coloring powder. Serial No. 630,923, Sept. 15. Class 51.

Cottage Products, Incorporated, New York, N. Y. Partially baked frozen waffles. Serial No. 643,659, Sept. 15. Class 46.

Culligan, Inc., Northbrook, Ill. Desiccant. Serial No. 645,395, Sept. 15. Class 6.

Curtis, Helene, Industries, Inc., Chicago, Ill. Colored glass particles to be sprayed on a hair do. Serial No. 622,811, Sept. 15. Class 51.

Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier Fils Aine et Cie), Paris, France. Alcoholic liqueurs. Serial No. 617,715, Sept. 15. Class 49.

Da-Lite Screen Company, Inc., Chicago, Ill. Motion picture screens. Serial No. 633,756, Sept. 15. Class 26.

Dan River Mills, Incorporated, Danville, Va. Textile fabrics. Serial No. 645,360, Sept. 15. Class 42.

De Angelis, Raffaele, doing business under the name of Thymoform Company, Providence, R. I. Disinfectant. Serial No. 645,437, Sept. 15. Class 6.

Dell Publishing Company, Inc., New York, N. Y. Magazine. Serial No. 645,234, Sept. 15. Class 38.

Delmond Pharmaceutical Corp., assignee: *See*—
Italian Drugs Importing Co. Inc.

Denver Chemical Manufacturing Company, The, New York, N. Y. Medicated rub. Serial No. 640,919, Sept. 15. Class 18.

Diamond State Distilling Company: *See*—
Laird & Company.

Diebold, Incorporated, Canton, Ohio. Making photographic prints, developing and printing photographic films, etc. Serial No. 585,106, Sept. 15. Class 103.

Dittmer Gear and Manufacturing Corp., Lockport, N. Y. Spur and helical gears, shafts, hubs, etc. Serial No. 629,656, Sept. 15. Class 23.

Drug Products Co., Inc., The, East Orange, N. J. Medicinal skin lotion. Serial No. 623,827, Sept. 15. Class 18.

Duron Paint Manufacturing Company, Washington, D. C. Ready-mixed paint, varnishes, wood stains, etc. Serial Nos. 644,396–7, Sept. 15. Class 16.

Duro-Test Corporation, North Bergen, N. J. Incandescent bulbs, fluorescent tubes, and fluorescent tube fixtures. Serial No. 610,674, Sept. 15. Class 21.

E-Z Products: *See*—
Steckler, Nat P.

Eagle Clothes, Inc., New York, N. Y. Piece goods. Serial No. 621,456, Sept. 15. Class 42.

Ekstrom, Regner A., Jr., doing business as Selco, Instruments, Harvey, Ill. Flow meters, pyrometers, thermometers, etc. Serial No. 626,988, Sept. 15. Class 26.

Electronic Tube Corporation, Wyndmoor, Pa. Electronic apparatus for measuring vibration, etc. Serial No. 606,213, Sept. 15. Class 26.

Envoys, Incorporated: *See*—
Bourke, Holland & Miller, Inc.

Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Arc welding machines. Serial No. 642,394, Sept. 15. Class 21.

Fairbridge Co. Incorporated, Bridgeport, Conn. Magnifying lens attachments. Serial No. 642,027, Sept. 15. Class 26.

Fairchild Camera and Instrument Corporation, Syosset, N. Y. Camera shutters. Serial No. 630,488, Sept. 15. Class 26.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Synthetic plastic materials. Serial No. 636,972, Sept. 15. Class 6.

Federated Department Stores, Inc., Cincinnati, Ohio. Household scissors and household shears. Serial No. 642,028, Sept. 15. Class 23.

Finch, Joseph S., and Company, also doing business as The Gibson Distilling Company, New York, N. Y. Whiskey. Serial No. 607,896, Sept. 15. Class 49.

Fischer, Philip, doing business as Phil Fischer Company, Chicago, Ill. Antiseptic, hemostatic, and styptic ointment. Serial No. 632,363, Sept. 15. Class 18.

Fischer, Phil, Company: *See*—
Fischer, Philip.

Flavor Corporation of America, Chicago, Ill. Liquid concentrate of flavoring materials. Serial No. 643,543, Sept. 15. Class 46.

Flodar Corporation, Cleveland, Ohio. Metal hydraulic tube fittings. Serial No. 642,923, Sept. 15. Class 13.

Foam-Crete, Incorporated, Scranton, Pa. Liquid chemical compound. Serial No. 634,584, Sept. 15. Class 6.

Foley Manufacturing Company, Minneapolis, Minn. Pastry frames, spatulas, juices, saw setters, etc. Serial No. 637,367, Sept. 15. Class 23.

Foremost Dairies, Inc., Jacksonville, Fla. Fresh milk, buttermilk, sour cream, etc. Serial No. 630,001, Sept. 15. Class 46.

Foremost Dairies, Inc., Jacksonville, Fla. Fresh milk, buttermilk, sour cream, etc. Serial No. 631,986, Sept. 15. Class 46.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. Serial No. 643,132, Sept. 15. Class 42.

Franklin Optical Co.: *See*—
Bronson, Louis D.

Fraternity of Phi Gamma Delta, The, Washington, D. C. Organizing of chapters and alumni groups in a national fraternity etc. Serial No. 633,287, Sept. 15. Class 100.

Gibson Distilling Company, The: *See*—
Finch, Joseph S., and Company.

Goggins, Juil R., Minneapolis, Minn. Military casket and vault. Serial No. 639,008, Sept. 15. Class 2.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Stationers' bands. Serial No. 582,295, Sept. 15. Class 37.

Grossman, Ralph E., doing business as Picture Craft Company, Decatur, Ill. Artist's canvases. Serial No. 623,883, Sept. 15. Class 50.

Gulf Oil Corporation, Pittsburgh, Pa. Cutting oil. Serial No. 631,862, Sept. 15. Class 15.

Harlequin Corporation, New York, N. Y. Spectacles and parts thereof. Serial No. 640,630, Sept. 15. Class 26.

Harper-Wyman Company, Chicago, Ill. Gas valves. Serial No. 636,980, Sept. 15. Class 34.

Harrower Laboratory, Inc., The, Jersey City, N. J. Preparation for internal administration used as an aid in X-ray diagnosis. Serial No. 641,050, Sept. 15. Class 18.

Highspire Distillers Corporation, Philadelphia, Pa., assignor to Renfield Importers, Limited, Newark, N. J. Whiskey. Serial No. 622,136, Sept. 15. Class 49.

Hively, Vern J., doing business as Alliance Valve Company, Alliance, Ohio. Valves. Serial No. 636,479, Sept. 15. Class 13.

Hohner, M., Inc., New York, N. Y. Harmonicas. Serial No. 638,581, Sept. 15. Class 36.

Holloway, M. J., & Co., Chicago, Ill. Candy. Serial No. 645,709, Sept. 15. Class 46.

Holthouse & Hartup, Inc., Waynesboro, Tenn. Striking tool handles. Serial No. 608,004, Sept. 15. Class 23.

Hook & Ackerman, Inc., Philadelphia, Pa. Gas fired boilers, conversion burners, and unit heaters. Serial No. 602,262, Sept. 15. Class 34.

Horecny, Laslo, Seaside, Oreg. Wooden shingles and shakes. Serial No. 630,711, Sept. 15. Class 12.

Howard Company, Inc., The, Indianapolis, Ind. Technical manuals and replacement sheets therefor. Serial No. 638,770, Sept. 15. Class 38.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Stalls, partitions, cattle pen panels, etc. Serial No. 642,644, Sept. 15. Class 12.

Hugetz, Edward, New York, N. Y. Fountain, stylographic, ball point, and other mechanical pens, mechanical pencils, etc. Serial No. 626,569, Sept. 15. Class 37.

Hyde Manufacturing Company, Southbridge, Mass. Putty knives and scrapers. Serial No. 642,225, Sept. 15. Class 23.

Imperial World Films, Inc., Chicago, Ill. Motion picture films. Serial No. 635,309, Sept. 15. Class 26.

India Cosmetic Co.: *See*—
Akhtar, Jamil.

Industrial Shipping Company Limited, Mahone Bay, Lunenburg, Nova Scotia, Canada. Wooden boats and unfinished hulls of boats. Serial No. 642,553, Sept. 15. Class 19.

Injection Molders Supply Company: *See*—
Morse, A. Reynolds.

International Milling Company, Minneapolis, Minn. Wheat flour. Serial No. 644,306, Sept. 15. Class 46.

International Milling Company, Minneapolis, Minn. Wheat flour, barley flour, rye flour, etc. Serial No. 644,308, Sept. 15. Class 46.

International Milling Company, Minneapolis, Minn. Wheat flour. Serial No. 644,314, Sept. 15. Class 46.

International Milling Company, Minneapolis, Minn. Wheat flour. Serial Nos. 644,317–19, Sept. 15. Class 46.

Irvington Varnish & Insulator Company, Irvington, N. J. Electrical insulation material. Serial No. 637,380, Sept. 15. Class 21.

Italian Drugs Importing Co., Inc., assignor to Delmond Pharmaceutical Corp., New York, N. Y. Absorbable hemostatic gelatin sponge. Serial No. 640,517, Sept. 15. Class 18.

J. F. S. Company: *See*—
Stillwell, James F.

Jessop Products, Inc., New York, N. Y. Hair tonic, after shave lotion, estrogenic hormone cream, etc. Serial No. 625,205, Sept. 15. Class 51.

Jet Knitting Mills, Inc., Brooklyn, N. Y. Bandeaux and hair nets. Serial No. 645,805, Sept. 15. Class 39.

Jet-Ball Game Company, St. Louis, Mo. Mechanical tennis-simulating table game. Serial No. 622,020, Sept. 15. Class 22.

Johnson, Joseph S., doing business as Steele Formulae Company, Cleveland, Ohio. Preparation for the treatment of high blood pressure. Serial No. 634,017, Sept. 15. Class 18.

Judson Nurseries: *See*—
Judson, Victor J.

Judson, Victor J., doing business as Judson Nurseries, Bristol, Ind. Strawberry plants. Serial No. 619,202, Sept. 15. Class 1.

Kaeser & Blair, Incorporated, Cincinnati, Ohio. Bond papers. Serial No. 637,995, Sept. 15. Class 37.

Kessler, Julius, Distilling Co., Inc., Lawrenceburg, Ind. Alcoholic beverages. Serial No. 621,562, Sept. 15. Class 49.

Kliegl Bros. Universal Electric Stage Lighting Co., Inc., New York, N. Y. Electrical apparatus. Serial No. 645,718, Sept. 15. Class 21.

Krueger, G., Brewing Company, Newark, N. J. Beer and ale. Serial No. 641,621, Sept. 15. Class 48.

Laird & Company, doing business as Diamond State Distilling Company, Scobeyville, N. J. Apple brandy. Serial No. 642,411, Sept. 15. Class 49.

Laminated Veneers Co., Richmond Hill, N. Y. Table tops. Serial No. 640,570, Sept. 15. Class 32.

Lane Company, Inc., The, Altavista, Va. Cedar wardrobes, cedar chifferobes, cedar closets, etc. Serial No. 642,822, Sept. 15. Class 32.

Larsen Company, The, Green Bay, Wis. Canned vegetables. Serial No. 624,036, Sept. 15. Class 46.

Lavino, E. J., and Company, Philadelphia, Pa. Ground dry refractory product. Serial No. 617,257, Sept. 15. Class 12.

Lentz, John R., trading as Lentz Novelty Co., Philadelphia, Pa. Utility racks. Serial No. 631,270, Sept. 15. Class 13.

Lentz Novelty Co.: *See*—
Lentz, John R.

Les Disques de France, Paris, France. Grooved phonograph records. Serial No. 611,574, Sept. 15. Class 36.

Les Parfums de Dana, Inc., assignee: *See*—
Consolidated Cosmetics.

Lewal Industries, Inc., New York, N. Y. Silver cleaning preparation. Serial No. 626,799, Sept. 15. Class 52.

Lincoln Engineering Company, St. Louis, Mo. Portable and stationary air-operated pumping apparatus. Serial No. 527,143, Sept. 15. Class 23.

Los Angeles Brewing Company, Los Angeles, Calif. Beer. Serial No. 633,311, Sept. 15. Class 48.

Lucky Strike Perfumeries Corporation, New York, N. Y. Beauty cream, brilliantine, dusting powder, etc. Serial No. 624,041, Sept. 15. Class 51.

Lufkin Rule Company, The, Saginaw, Mich. Measuring tape. Serial No. 613,717, Sept. 15. Class 26.

Lugene, Inc., New York, N. Y. Rules for alignment of spectacles. Serial No. 643,040, Sept. 15. Class 26.

Lyons, J., & Co., Ltd., Inc., Baltimore, Md., and Jersey City, N. J. Cartons of crystallized ginger. Serial No. 616,857, Sept. 15. Class 46.

Madagascar Graphite and Mica Company, New York, N. Y. Textile cloth for use with other raw materials. Serial No. 639,181, Sept. 15. Class 1.

Madison Products Company, Toledo, Ohio. Opaque eye shields. Serial No. 633,112, Sept. 15. Class 44.

Magnet Cove Barium Corporation, Bellaire, Tex. Dry ground native clay. Serial No. 642,112, Sept. 15. Class 1.

Magno-Syn-Werk, G. m. b. H., Duisburg am Rhein, Germany. Water purification compound. Serial No. 593,734, Sept. 15. Class 6.

Marco Chemicals, Inc., Linden, N. J. assignor to Celanese Corporation of America. Liquid synthetic resins. Serial No. 632,624–5, Sept. 15. Class 6.

Marco Refrigerators Limited, London, England. Condensing units and compressors for refrigerators. Serial No. 641,194, Sept. 15. Class 31.

Marlyn Co., Inc., Los Angeles, Calif. Buccal or sublingual tablets. Serial No. 622,607, Sept. 15. Class 18.

Marquette, Arthur F., doing business under the trade name of Auto-Bet Co., Chicago, Ill. Game. Serial No. 632,567, Sept. 15. Class 22.

Marx, Louis, & Co., Inc., New York, N. Y. Toy pistol. Serial No. 645,330, Sept. 15. Class 22.

Massengill, S. E., Company, The, Bristol, Tenn. Oral pharmaceutical preparation. Serial No. 626,682, Sept. 15. Class 18.

Massengill, S. E., Company, The, Bristol, Tenn. Oral veterinary preparation. Serial No. 626,685, Sept 15. Class 18.

McMurdo, Hew B., San Francisco, Calif. Golfers' goggles. Serial No. 641,627, Sept. 15. Class 26.

McNaught Syndicate, Inc., The, New York, N. Y. Daily and Sunday newspaper feature. Serial No. 643,431, Sept. 15. Class 38.

Medical Specialties, Inc., Rochester, Minn. Sedative. Serial No. 609,371, Sept. 15. Class 18.

Mellowes Company, The, Milwaukee, Wis. Washers. Serial No. 636,137, Sept. 15. Class 13.

Midwest Plywood Company, Detroit, Mich. Wall board. Serial No. 602,327, Sept. 15. Class 12.

Mid-West Tool Company, Grand Rapids, Mich. Stud driving and removing tools. Serial No. 644,331, Sept. 15. Class 23.

Mil-Hi Laboratories, Inc., New York, N. Y. Nail polish and lipstick. Serial No. 633,070, Sept. 15. Class 51.

Miller, E. S., Laboratories, Inc., Los Angeles, Calif. Multivitamin and multi-mineral preparation. Serial No. 628,953, Sept. 15. Class 18.

Miller Electric Manufacturing Co., Appleton, Wis. Electrical welders, spot welders, and welding equipment. Serial No. 641,853, Sept. 15. Class 21.

Mima Sewing Machine Mfg. Co., Ltd., Fukushima-Ku, Osaka, Japan. Sewing machines. Serial No. 632,644, Sept. 15. Class 23.

Mima Sewing Machine Mfg. Co., Ltd., Chome, Fukushima-Ku, Osaka, Japan. Sewing machines. Serial No. 637,845, Sept. 15. Class 23.

Minnesota Mining and Manufacturing Company, St. Paul, Minn. High viscosity coating compound. Serial No. 639,700, Sept. 15. Class 16.

Modern Displays, Detroit, Mich. Printed decalcomanias. Serial No. 634,153, Sept. 15. Class 38.

Morse, A. Reynolds, doing business as Injection Molders Supply Company, Cleveland, Ohio. Injection molding machine feeders. Serial No. 633,427, Sept. 15. Class 23.

Morton's Inc., Boston, Mass. Cleaning of fur coats. Serial No. 618,549, Sept. 15. Class 103.

Motor Products Corporation, Detroit, Mich., and North Chicago, Ill. Plastic bags, waxed paper cartons, and heat sealing paper bags. Serial No. 630,946, Sept. 15. Class 2.

Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y. Candles. Serial No. 643,772, Sept. 15. Class 15.

Muench-Kreuzer Candle Co., Inc. Syracuse, N. Y. Candles. Serial No. 643,778, Sept. 15. Class 15.

Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y. Candles. Serial No. 643,780, Sept. 15. Class 15.

Napa & Sonoma Wine Co.: *See*—
California Cellars.

National Chemical Company, Los Angeles, Calif. Fuel oil additives. Serial No. 644,434, Sept. 15. Class 15.

National Distillers Products Corporation, New York, N. Y. Wines. Serial No. 641,630, Sept. 15. Class 47.

National Distillers Products Corporation, New York, N. Y. Whiskey, gin, and brandy. Serial No. 641,631, Sept. 15. Class 49.

National Laboratories, Inc., Toledo, Ohio. Self-polishing wax. Serial No. 641,460, Sept. 15. Class 4.

National Plastics, Inc., Knoxville, Tenn. Phenolic molding compound. Serial No. 638,010, Sept. 15. Class 1.

Nedick's, Inc., New York, N. Y. Lemonade concentrate. Serial No. 633,857, Sept. 15. Class 45.

Newark Paraffine & Parchment Paper Co., Newark, N. J. Paper bags, paper cardboard boxes, paper trays, etc. Serial No. 633,243, Sept. 15. Class 2.

New York Feather Co. Inc., New York and Brooklyn, N. Y. Pillows, cushions, throw pillows, etc. Serial No. 638,602, Sept. 15. Class 32.

Norfleet Products: *See*—
Wilkins, Grant.

Nu-Seal Mfg. Co., Oakland, Calif. Glues. Serial No. 626,996, Sept. 15. Class 5.

Oboler, Arch, Hollywood, Calif. Polarizing lenses and eyeglasses. Serial No. 642,084, Sept. 15. Class 26.

Olsen, Harry, Seattle, Wash. Photo-composing apparatus. Serial No. 628,424, Sept. 15. Class 26.

Optische Werke C. A. Steinheil Sohne G. m. b. H., Munich, Germany. Photographic cameras. Serial No. 637,138, Sept. 15. Class 26.

Optische Werke C. A. Steinheil Sohne G. m. b. H., Munich, Germany. Photographic and other objectives, oculars, telescopes, etc. Serial No. 637,146, Sept. 15. Class 26.

P and G Supply Company, Inc., New York, N. Y. Hose couplings, including V mixers, elbow couplings, goosenecks, etc. Serial No. 643,555, Sept. 15. Class 13.

Packaging Materials Corp., Providence, R. I. Corrugated paper board. Serial No. 626,819, Sept. 15. Class 37.

Pancordion, Inc., New York, N. Y. Musical instruments. Serial No. 632,438, Sept. 15. Class 36.

Park Avenue Perfumers Associates, Detroit, Mich. Perfume. Serial No. 624,050, Sept. 15. Class 51.

Parker Pen Company, The, Janesville, Wis. Fountain pens, mechanical pencils, and pen and pencil desk sets. Serial No. 643,782, Sept. 15. Class 37.

Parker Pen Company, The, Janesville, Wis. Fountain pens, mechanical pencils and pen and pencil desk sets. Serial No. 643,785, Sept. 15. Class 37.

Peerless Furnace and Foundry, Inc., Indianapolis, Ind. Hot air furnaces, and burners therefor. Serial No. 643,707, Sept. 15. Class 34.

Pennant Corporation, Grand Rapids, Mich. Duct outlet fixtures. Serial No. 640,958, Sept. 15. Class 34.

Perla, Raimondo, Rome, Italy. Dye for hair and beard. Serial No. 628,776, Sept. 15. Class 51.

Picture Craft Company: *See*—
Grossman, Ralph E.

Pipelife, Inc., Odessa, Tex. Cleaning and painting the interior of pipe lines, wells and the like. Serial No. 641,965, Sept. 15. Class 103.

Poe, E. Holley, Associates: *See*—
Poe, Robert M.

Poe, Robert M., doing business as E. Holley Poe Associates, Stamford, Conn. Periodical publications. Serial No. 642,489, Sept. 15. Class 38.

Pond's Extract Company, New York, N. Y., and elsewhere. Toilet and cosmetic product. Serial Nos. 642,609–10, Sept. 15. Class 51.

Post Printing and Publishing Company, The, Denver, Colo. Daily newspaper. Serial No. 635,433, Sept. 15. Class 38.

Presto Beverage Corporation, Brooklyn, N. Y. Fruit flavored bases. Serial No. 598,546, Sept. 15. Class 45.

Prop Products, Los Angeles, Calif. Food supplements in liquid and powder form, and containing vitamins, enzymes, etc. Serial No. 633,327, Sept. 15. Class 18.

Pure Oil Company, The, Chicago, Ill. Automobile seat cover installation kit. Serial No. 610,025, Sept. 15. Class 50.

Rack Engineering Company, Connellsville, Pa. Pallet boxes. Serial No. 636,148, Sept. 15. Class 50.

Rain-Beau Products Company, Canton, Mass. Fishing lines. Serial No. 649,249, Sept. 15. Class 22.

Rajowalt Company, Warsaw, Ind. Fracture and surgical appliances. Serial No. 634,019, Sept. 15. Class 44.

Raybestos-Manhattan, Inc., Passaic, N. J. Light weight open weave cloth. Serial No. 628,714, Sept. 15. Class 42.

Reish Products, Inc., South Bend, Ind. Aluminum foil. Serial No. 627,644, Sept. 15. Class 14.

Renfield Importers, Limited, assignee: *See*—
Highspire Distillers Corporation.

Richmond Engineering Co., Inc., Richmond, Va. Septic tanks. Serial No. 641,465, Sept. 15. Class 13.

River Plate Corporation, The, New York, N. Y. Quebracho extract. Serial No. 639,078, Sept. 15. Class 6.

Robertson and Baxter, Limited, Glasgow, Scotland. Whisky. Serial No. 640,130, Sept. 15. Class 49.

Robinson, Leo C., Indianapolis, Ind. Venetian blind spray cleaning unit. Serial No. 625,369, Sept. 15. Class 23.

Robinson-Wagner Co., Inc., New York, N. Y. Aqueous solutions of an aluminum salt of an inorganic acid having astringent properties as medicinal astringents. Serial No. 637,614, Sept. 15. Class 18.

Roll-O-Graphic Corporation, New York, N. Y. Molleton fabrics. Serial No. 631,495, Sept. 15. Class 42.

Roma Tex Brix Co., Portland, Oreg. Bricks. Serial No. 626,118, Sept. 15. Class 12.

Root & Company: *See*—
Root, Nathan.

Root, Nathan, doing business as Root & Company, Grand Rapids, Mich. Cleaning and glazing of furs and fur garments. Serial No. 571,293, Sept. 15. Class 103.

Rotella Beverages, Inc., assignor to Slim-Line, Inc., Newark, N. J. Non-alcoholic maltless soft drinks and carbonated waters. Serial No. 639,144, Sept. 15. Class 45.

Roth, Chester H., Co., Inc., New York, N. Y. Liquid preparation to rinse nylon hose. Serial No. 643,187, Sept. 15. Class 6.

Rothman Pickle Products, Inc., Jamaica, N. Y. Pickles and sauerkraut. Serial No. 627,841, Sept. 15. Class 46.

Royal Engineering Co., East Hanover, N. J. Lubricant. Serial No. 630,961, Sept. 15. Class 15.

Scanlon, Edward H., doing business as Westlake Horticultural Estab., Cleveland, Ohio. Natural trees. Serial No. 613,652, Sept. 15. Class 1.

Schenley Laboratories, Inc., New York, N. Y. Medicinal preparation. Serial Nos. 627,967–9, Sept. 15. Class 18.

Schmiege, Herbert, Saginaw, Mich. Portable collapsible tent. Serial No. 635,101, Sept. 15. Class 50.

Scripto, Inc., Atlanta, Ga. Ball point pens. Serial No. 643,793, Sept. 15. Class 37.

Sealy, Incorporated, Chicago, Ill. Mattresses and box springs. Serial Nos. 641,334–5, Sept. 15. Class 32.

Sears, Roebuck and Co., Chicago, Ill. Air conditioners. Serial No. 632,750, Sept. 15. Class 34.

Seico. Instruments: *See*—
Ekstrom, Regner A., Jr.

Shepard, Mary L., doing business as Shepard's Chemical Works, Wilmington, N. C. Disinfectants and deodorizers. Serial No. 631,128, Sept. 15. Class 6.

Shepard's Chemical Works: *See*—
Shepard, Mary L.

Sjostrom Machine Company: *See*
Sjostrom, Robert L.

Sjostrom, Robert L., doing business as Sjostrom Machine Company, Lawrence, Mass. Combination thread counting and cloth examining machines. Serial No. 640,706, Sept. 15. Class 26.

Slim-Line, Inc., assignee: *See*—
Rotella Beverages, Inc.

Smokador Manufacturing Co., Inc., Bloomfield, N. J. Smoking stands. Serial No. 632,792, Sept. 15. Class 32.

Societe Rhodiaceta, Paris, France. Single threads and threads woven into strands. Serial No. 634,510, Sept. 15. Class 43.

Spalding, A. G., & Bros. Inc., assignee: *See*—
Toy Tinkers, Inc.

Spiegel, Inc., Chicago, Ill. Electric ranges and electric dish washers. Serial No. 643,561, Sept. 15. Class 21.

Spiegel, Inc., Chicago, Ill. Oil heaters. Serial No. 643,562, Sept. 15. Class 34.

Steckler, Nat P., doing business under the name and style of E-Z Products, New York, N. Y. Ear drum protectors for therapeutic purposes, and athletic supporters. Serial No. 633,224, Sept. 15. Class 44.

Steele Formulae Company: *See*—
Johnson, Joseph S.

Steri-Wite Corporation, The, New York, N. Y. Sanitising detergent. Serial No. 643,002, Sept. 15. Class 52.

Stevens Manufacturing Co., Inc., Mansfield, Ohio. Thermostats, temperature responsive switches and valves, and components thereof. Serial Nos. 624,614–15, Sept. 15. Class 26.

Stilwell, James F., doing business under the style and title of J. F. S. Company, Omaha, Nebr. Liniment. Serial No. 641,643, Sept. 15. Class 18.

Strausser, Curtiss G., doing business as Brite Side Products, Akron, Ohio. All-purpose cleaning and polishing preparation. Serial No. 617,422, Sept. 15. Class 4.

Sun Outdoor Products Company, Incorporated, Little Ferry, N. J. Beach and garden umbrellas. Serial Nos. 642,178–9, Sept. 15. Class 32.

Sutliff & Case Co. Inc., Peoria, Ill. Medicinal preparations. Serial No. 640,535, Sept. 15. Class 18.

Thompson Chemicals Corporation, Los Angeles, Calif. Concentrate liquid chemical. Serial No. 645,441, Sept. 15. Class 6.

Thymoform Company: *See*—
De Angelis, Raffaele.

Tourinns, Incorporated, New York, N. Y. Lodgings for guests in motor courts. Serial Nos. 618,065–6, Sept. 15. Class 100.

Toy Tinkers, Inc., Evanston, Ill., assignor to A. G. Spalding & Bros. Inc., Chicopee, Mass. Children's building elements. Serial No. 644,697, Sept. 15. Class 22.

Trailmobile Inc., Cincinnati, Ohio. Cargo trailers, truck bodies, and structural parts thereof. Serial No. 643,252, Sept. 15. Class 19.

Trans-Sonics, Inc., Bedford, Mass. Pressure gauges or pressure sensing devices, temperature gauges or temperature sensing devices, etc. Serial No. 633,092, Sept. 15. Class 26.

Trimedge, Inc., Youngstown, Ohio. Extruded and rolled metal moldings. Serial Nos. 630,974–5, Sept. 15. Class 12.

True Tronics, Inc., Chicago, Ill. Television antennae. Serial No. 640,175, Sept. 15. Class 21.

U. S. Electrical Motors, Inc., Los Angeles, Calif. Electromagnetically operated combination brake and clutch mechanism. Serial No. 623,568, Sept. 15. Class 21.

Universal Pictures Company, Inc., New York, N. Y. Series of stereoscopic motion picture films. Serial No. 643,573, Sept. 15. Class 26.

Vance Industries, Inc., Evanston, Ill. Frames, supporting brackets and clamps. Serial No. 643,198, Sept. 15. Class 13.

Vaughan Mfg. Co., Chicago, Ill. Can opener. Serial No. 633,824, Sept. 15. Class 23.

Victorlite Industries, Los Angeles, Calif., assignee of Victorlite Industries. Still picture projecting machines. Serial No. 527,888, Sept. 15. Class 26.

Watkins, J. R., Company, The, Winona, Minn. Shampoo. Serial No. 642,584, Sept. 15. Class 52.

Weber, Franklin H., doing business as Weber Mfg. Co., Chicago, Ill. Fish nets, fish bags, and basketball nets, etc. SerialNo. 622,520, Sept. 15. Class 22.

Weber Mfg. Co.: *See*—
Weber, Franklin H.

Western Mineral Products Company, Minneapolis, Minn. Paint additive. Serial No. 643,745, Sept. 15. Class 16.

Westlake Horticultural Estab.: *See*—
Scanlon, Edward H.

White Sewing Machine Corporation, Lakewood, Ohio. Sewing machines. Serial No. 634,820, Sept. 15. Class 23.

Whitney Screw Corporation, Nashua, N. H. Wood screws. Serial No. 632,542, Sept. 15. Class 13.

Wicks Organ Company, Highland, Ill. Pipe organs. Serial No. 568,091, Sept. 15. Class 36.

Wilkins, Grant, doing business as Norfleet Products, Atlanta, Ga. Toilet preparations. Serial No. 643,747, Sept. 15. Class 51.

Wilson, Kent H., doing business as Bio-Supply Co., Moscow, Idaho. Biological specimen-examination kits, biological specimen jars, etc. Serial No. 618,872, Sept. 15. Class 26.

Wolf Brothers, Inc., Philadelphia, Pa. Paper bags. Serial Nos. 645,612–13, Sept. 15. Class 2.

York-Shipley, Inc., York, Pa. Oil or gas burning air conditioning systems and parts thereof. Serial No. 634,505, Sept. 15. Class 34.

Zeiss Ikon, A. G., Stuttgart, Germany. Photographic apparatus, barometers, field prism glasses, etc. Serial No. 631,957, Sept. 15. Class 26.

Ziff-Davis Publishing Company, New York, N. Y. Children's play cartridge belts, crayon receptacles, coloring books, etc. Serial No. 643,750, Sept. 15. Class 22.

LIST OF REGISTRANTS OF TRADE-MARKS

Acacia Mutual Life Insurance Company, Washington, D. C. Estate planning services. 580,097, Sept. 15; Serial No. 636,189, published June 23, 1953. Class 102.

Aldon Rug Mills, Inc., Philadelphia, Pa. Textile tufted rugs and carpets. 580,061, Sept. 15; Serial No. 640,895, published June 23, 1953. Class 42.

Allied Laboratories, Inc., Kansas City, Mo. Preparation for prophylactic management of ambulatory patients. 580,045, Sept. 15; Serial No. 639,306, published June 23, 1953. Class 18.

Allied Van Lines, Inc., Broadview, Ill. Storage and packing of household goods and for the transporation of household goods. 580,098, Sept. 15; Serial No. 638,624, published June 16, 1953. Class 105.

Allis-Chalmers Manufacturing Company, Milwaukee and West Allis, Wis. Transmission belts and belting. 306,089, renewed Sept. 5, 1953. O. G. Sept. 15. Class 35.

Almo Candy Co., New York, N. Y. Candy. 579,921, Sept. 15; Serial No. 611,874, published June 23, 1953. Class 46.

American Bemberg Corporation, assignee: *See*—
Bemberg, I. P. Aktiengesellschaft.

American Cranberry Exchange, New York, N. Y. Cranberries. 114,671, Jan. 2, 1917. Amended. O. G. Sept. 15. Class 46.

American Cranberry Exchange, New York, N. Y. Fresh cranberries. 521,297, Feb. 21, 1950. Amended. O. G. Sept. 15. Class 46.

American Crystal Sugar Company, Denver, Colo. Sugar. 579,907–9, Sept. 15; Serial Nos. 597,647–9, published June 23, 1953. Class 46.

American Cyanamid Company, New York, N. Y. Antibiotic. 580,012, Sept. 15; Serial No. 635,284, published June 23, 1953. Class 18.

American Federation of Technical Engineers, Washington, D. C. Blueprints and engineering drawings. 580,099, Sept. 15; Serial No. 627,027, published June 16, 1953. Class 38.

American Felt Company, Boston, Mass., to American Felt Company, Glenville, Conn. Felt in the piece. 94,413, re-renewed Dec. 9, 1953. O. G. Sept. 15. Class 50.

American Heart Association, Inc., New York, N. Y. Research and community service. 580,093, Sept. 15; Serial No. 628,838, published June 23, 1953. Class 100.

American Laboratories Incornorated, Richmond, Va. Imitation food flavorings. 437,699, Mar. 30, 1948. Republished Sept. 15. Class 46.

Anderson, Clayton & Co., Sherman, Tex., and elsewhere. Vegetable oil shortening. 580,062, Sept. 15; Serial No. 640,997, published June 23, 1953. Class 46.

Ansul Chemical Company, Marinette, Wis. Liquid sulfur dioxide, liquid methyl chloride, etc. 580,048, Sept. 15; Serial No. 639,607, published June 23, 1953. Class 6.

Apothecaries Hall Co., Waterbury, Conn. Rust preventing phosphate coating. 580,016, Sept. 15; Serial No. 635,341, published June 16, 1953. Class 16.

Arena, Albert J., doing business as De-Odor-Dent Co., Oakland, Calif. Soluble crystals for cleaning and removing foreign matter from dental tools. 580,104, Sept. 15; Serial No. 585,738. Class 32.

Armour and Company, Chicago, Ill. Anti-menorrhagic factor. 580,041, Sept. 15; Serial No. 638,942, published June 23, 1953. Class 18.

Arrow Packing Co., Exeter, Calif. Fresh deciduous fruits. 226,104–5, Mar. 29, 1927. Republished Sept. 15. Class 46.

Artistic Brassiere Co. Inc., to Artistic Foundations Inc., New York, N. Y. Girdles, corsets and brassières, etc. 305,623, renewed Aug. 22, 1953. O. G. Sept. 15. Class 39.

Artistic Foundations Inc.: *See*—
Artistic Brassiere Co. Inc.

Associated Dye & Print Co. Inc., Paterson, N. J. Treating textile fabrics. 580,089, Sept. 15; Serial No. 624,007, published June 23, 1953. Class 106.

Associated Dye & Print Co. Inc., Paterson, N. J. Treating fabrics. 580,090, Sept. 15; Serial No. 624,008, published June 23, 1953. Class 106.

Atlantic Machine Tool Works, Inc., Newington, Conn. Manufacturing on a custom basic gages, jigs, fixtures, etc. 580,088, Sept. 15; Serial No. 620,186, published June 16, 1953. Class 106.

Avon Shoe Co., Inc., Brooklyn, N. Y. Ladies' and misses' shoes. 580,108, Sept. 15; Serial No. 605,400. Class 39.

Baker Castor Oil Company, The, Jersey City, N. J. Soaps. 579,947, Sept. 15; Serial No. 621,445, published June 23, 1953. Class 52.

Baker Paint & Varnish Co., Jersey City, N. J. Putty. 158,603, Sept. 12, 1922. Republished Sept. 15. Class 12.

Bakers Associates Incorporated, Chicago, Ill. Management counseling to the bakery industry. 580,092, Sept. 15; Serial No. 627,313, published June 23, 1953. Class 101.

Ball Company, The: *See*—
Ball, Webster C.

Ball, Webster C., Cleveland, Ohio, by The Ball Company, Chicago, Ill. Watches and portable clocks. 35,047, Sept. 18, 1900. Republished Sept. 15. Class 27.

Bankers Box Company, Chicago, Ill. Cardboard and corrugated-board storage filing boxes. 579,893, Sept. 15; Serial No. 553,063, published Dec. 11, 1951. Class 32.

Banton Corporation, The, New York, N. Y., and San Francisco, Calif. Hunters' gloves. 580,072, Sept. 15; Serial No. 641,491, published June 16, 1953. Class 39.

Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic lenses. 308,427, renewed Dec. 5, 1953. O. G. Sept. 15. Class 26.

Bausch & Lomb Optical Company, Rochester, N. Y. Eyeshields and goggles. 580,026, Sept. 15; Serial No. 636,508, published June 16, 1953. Class 26.

Bayley, William, Company, The, Springfield, Ohio. Hospital and institution windows. 580,120, Sept. 15; Serial No. 620,021. Class 12.

Beaunit Mills, Inc.: *See*—
Bemberg, I. P., Aktiengesellschaft.

Bee Chemical Company, Chicago, Ill. Strippable protective coating composition. 579,936, Sept. 15; Serial No. 619,378, published June 16, 1953. Class 16.

Bemberg, I. P. Aktiengeselischaft, Wuppertal-Oberbarmen and Wuppertal-Elberfeld, Germany, assignor to American Bemberg Corporation, to Beaunit Mills, Inc., New York, N. Y. Textile materials in the piece. 304,091, renewed June 20, 1953. O. G. Sept. 15. Class 42.

Bemis, Ken E., Jr., Oakland, Calif. Drive-in restaurant service. 580,096, Sept. 15; Serial No. 635,949, published June 23, 1953. Class 100.

Bianco, Anthony A., Inc., New York, N. Y., and Fresno, Calif. Fresh grapes, cherries, peaches, etc. 579,935, Sept. 15; Serial No. 619,290, published June 23, 1953. Class 46.

Blue Ridge Pressure Castings, Inc., Lehighton, Pa. Metal die castings. 579,953, Sept. 15; Serial No. 623,932, published June 16, 1953. Class 14.

Blumenthal, Sidney, & Co., Inc., New York, N. Y. Pile fabrics. 580,063–4, Sept. 15; Serial Nos. 641,005–6, published June 23, 1953. Class 42.

Blyth, John, assignor to The Blyth Tea Company, to The Boat House Coffee & Tea Company, Cincinnati, Ohio. Bourbon Santos coffee. 92,784, re-renewed July 29, 1953. O. G. Sept. 15. Class 46.

Blyth Tea Company, The, assignee: *See*—
Blyth, John.

Boat House Coffee & Tea Company, The: *See*—
Blyth, John.

Bonney Forge & Tool Works, Allentown, Pa. Wrenches. 306,876, renewed Oct. 3, 1953. O. G. Sept. 15. Class 23.

Bowers Lighter Company, Kalamazoo, Mich. Pyrophoric pocket and table lighters, flints, and smoking pipe cleaners. 579,978, Sept. 15; Serial No. 630,308, published June 16, 1953. Class 8.

Boyd's City Dispatch Incorporated, New York, N. Y. Mailing lists. 580,055, Sept. 15; Serial No. 640,438, published June 23, 1953. Class 38.

Breese Corporations, Inc., Newark, N. J. Accessories for internal combustion engines. 317,545, Sept. 25, 1934. Republished Sept. 15. Class 23.

Brown & Bigelow, St. Paul, Minn. Automatic cigarette gas lighters. 580,106, Sept. 15; Serial No. 601,598. Class 8.

Brown Soap Co., The, Columbus, by The Climalene Company, Canton, Ohio. Soap. 65,194, Sept. 10, 1907. Republished Sept. 15. Class 52.

Brunner, Oscar A., doing business under the name Victoria Distributors, New York, N. Y. Sheets, pillow cases, and piece goods. 580,065, Sept. 15; Serial No. 641,010, published June 23, 1953. Class 42.

Brütsch & Co., Zurich, Switzerland. Sewing and darning machines and parts thereof. 579,966, Sept. 15; Serial No. 627,622, published May 19, 1953. Class 23.

Buck Engineering Company, Inc., Freehold, N. J. Vacuum tube testing and inspecting apparatus and instruments. 579,913, Sept. 15; Serial No. 604,355, published June 16, 1953. Class 26.

Burgess-Norton Mfg. Co., Geneva, Ill. Piston pins and ball bearings. 580,023, Sept. 15; Serial No. 635,994, published June 2, 1953. Class 23.

Burke, Frank G., to Manhattan Soap Company, Inc., New York, N. Y. Toilet soaps. 94,424, re-renewed Dec. 9, 1953. O. G. Sept. 15. Class 52.

Cabot, Godfrey L., Inc., Boston, Mass. Carbon black used as an ingredient of protective and decorative coatings. 579,950, Sept. 15; Serial No. 623,400, published June 16, 1953. Class 16.

Camden Park Greenhouses, Braham, Minn. Box containing earth with a layer of seeds on the top, etc. 579,900, Sept. 15; Serial No. 590,255, published June 23, 1953. Class 1.

Capital Plastics, Inc., Rochester, N. Y. Thermosetting resins. 579,981, Sept. 15; Serial No. 630,387, published June 9, 1953. Class 6.

Carlye Dress Corporation, St. Louis, Mo. Women's dresses. 580,134, Sept. 15; Serial No. 630,755. Class 39.

Century Industries, Inc., Chicago, Ill. Picture, photograph, and mirror frames. 579,932, Sept. 15; Serial No. 616,278, published June 16, 1953. Class 32.

Cera-Lac Company, The, to Albert Langlois, Los Angeles, Calif. Natural grain flour, cereal breakfast food, and bread. 303,962, renewed June 13, 1953. O. G. Sept. 15. Class 46.

Champion Textile Finishing Co., Chicago, Ill. Liquid composition for the weather-proofing of fabrics and leather. 579,910, Sept. 15; Serial No. 600,814, published Mar. 25, 1952. Class 6.

Chasco, Inc., Baltimore, Md. Chemical liquid paint remover. 579,925, Sept. 15; Serial No. 613,049, published June 23, 1953. Class 52.

Chemische Forschungsgesellschaft m. b. H., Munich, Bavaria, Germany. Polyvinyl acetate. 579,988, Sept. 15; Serial No. 633,822, published June 9, 1953. Class 6.

Chesebrough Manufacturing Company, Consolidated, New York, N. Y. Petroleum jelly. 92,534, re-renewed July 15, 1953. O. G. Sept. 15. Class 6.

Chew, John A., Incorporated, New York, N. Y. Acetone, carbon tetrachloride, caustic soda, and trisodium phosphate. 580,058, Sept. 15; Serial No. 640,784, published June 9, 1953. Class 6.

Chicago Paints, Inc., Chicago, Ill. Ready mixed paints, paint enamel, varnish, etc. 579,902–5, Sept. 15; Serial Nos. 592,124–7, published Nov. 27, 1951. Class 16.

Chicago and Suburban Livery Association, Chicago, Ill. Renting vehicles. 580,100, Sept. 15; Serial No. 582,164, published June 23, 1953. Class 105.

Chi Psi Fraternity, Ann Arbor, Mich. Services rendered by the member chapters and members for male college students. 580,083, Sept. 15; Serial No. 561,802, published June 16, 1953. Class 100.

Chitty & Co., Jacksonville, Fla. Coffee, canned vegetables, canned fruits, etc. 309,855, Feb. 6, 1934. Republished Sept. 15. Class 46.

Ciba Limited, Basel, Switzerland. Coal tar colors. 580,066, Sept. 15; Serial No. 642,014, published June 23, 1953. Class 6.

Cities Service Oil Company: *See*—
Cities Service Oil Company, The.
Warner-Quinlan Asphalt Company.

Cities Service Oil Company, The, Cleveland, Ohio, to Cities Service Oil Company, Bartlesville, Okla. Dry cleaning preparation. 306,353, renewed Sept. 26, 1953. O. G. Sept. 15. Class 52.

Clapp, Otis, & Son, Inc., Boston, Mass. Perfume. 586,050, Sept. 15; Serial No. 639,808, published June 23, 1953. Class 51.

Cleaver, Albert M., Fontana, Calif. Plastic sealing and coating composition. 580,011, Sept. 15; Serial No. 635,251, published June 16, 1953. Class 16.

Climalene Company, The: *See*—
Brown Soap Co., The.

Cobbs Manufacturing Company, Des Moines, Iowa. Automotive vehicle registration certificate holder. 580,145, Sept. 15; Serial No. 634,073. Class 19.

Columbia Phonograph Company, Inc., to Columbia Records Inc., Bridgeport, Conn. Laundry cabinet dryers, dry cleaning machines, ironing boards, etc. 302,401, renewed Apr. 18, 1953. O. G. Sept. 15. Class 24.

Columbia Phonograph Company, Inc., to Columbia Records Inc., Bridgeport, Conn. Refrigerators and parts thereof. 303,744, renewed June 6, 1953. O. G. Sept. 15. Class 31.

Columbia Records Inc.: *See*—
Columbia Phonograph Company, Inc.

Cone Mills Inc. New York N. Y. Turkish towels. 580,030, Sept. 15; Serial No. 637,480, published June 23, 1953. Class 42.

Consolidated Oil Company, Detroit, Mich. Fuel oil and kerosene. 580,112, Sept. 15; Serial No. 609,963. Class 15.

Corn Products Refining Company, New York, N. Y. Polysaccharide, glucuronolactone, sodium glucuronate, etc. 579,964, Sept. 15; Serial No. 627,117, published June 16, 1953. Class 6.

Cotton Razor Blade Company: *See*—
Roth, Otto, Inc.

Cowles Chemical Company: *See*—
Electric Smelting and Aluminum Company, The.

Crompton Company, to Crompton Company, West Warwick, R. I. Treated tarnish proof, napped and pile fabrics. 304,591, renewed July 11, 1953. O. G. Sept. 15. Class 42.

Crucible Steel Company of America, New York, N. Y. Semi-finished castings. 579,958, Sept. 15; Serial No. 624,932, published June 16, 1953. Class 14.

Crystal, David, Inc., New York, N. Y. Ladies' dresses, skirts, suits, etc. 579,983, Sept. 15; Serial No. 630,765, published June 16, 1953. Class 39.

Cummings-Moore Graphite Company, Detroit, Mich. Amorphous graphite ores, pulverized Mexican, Ceylon, and artificial graphites, etc. 436,546, Feb. 10, 1948. Republished Sept. 15. Class 1.

Custanite Corporation, The, Larchmont, N. Y. Soft hammers. 579,992, Sept. 15; Serial No. 632,828, published June 2, 1953. Class 23.

Dalton Film Company, Tulsa, Okla. Publications. 579,924, Sept. 15; Serial No. 612,808, published June 23, 1953. Class 38.

Davis, Bryan, Publishing Company, Inc.: *See*—
Rider, John F., Publication.

Dayton Rubber Company, The: *See*—
Dayton Rubber Manufacturing Company, The.

Dayton Rubber Manufacturing Company, The, to The Dayton Rubber Company, Dayton, Ohio. Vehicle tires and inner tubes. 303,467, renewed May 23, 1953. O. G. Sept. 15. Class 35.

Dayton Rubber Manufacturing Company, The, to The Dayton Rubber Company, Dayton, Ohio. Vehicle tires and inner tubes. 303,885, renewed June 13, 1953. O. G. Sept. 15. Class 35.

Dell, Samuel M., & Co., Inc., Baltimore, Md. Paint and similar type protective and decorative coating and surfacing brushes. 580,019, Sept. 15; Serial No. 635,690, published June 23, 1953. Class 29.

Denham, Pauline, Yarns, Petaluma, Calif. Knitting yarn. 579,984, Sept. 15; Serial No. 630,925, published June 16, 1953. Class 43.

De-Odor-Dent Co.: *See*—
Arena, Albert J.

Detroit Acoustical Contracting Co., assignor to Rollform, Incorporated, Detroit, Mich. Fastening unit to be used for suspending or furring plasterboard base ceilings, etc. 579,948, Sept. 15; Serial No. 621,870, published June 23, 1953. Class 12.

Development Research, Inc.: *See*—
Top Wip Company.

Diamond Match Company, The, to The Diamond Match Company, New York, N. Y. Matches. 306,714–16, renewed Sept. 26, 1953. O. G. Sept. 15. Class 9.

Diamond Match Company, The, to The Diamond Match Company, New York, N. Y. Matches. 306,719, renewed Sept. 26, 1953. O. G. Sept. 15. Class 9.

Douglas Furniture Corporation, Chicago, Ill. Kitchen and dinette tables and chairs. 580,146, Sept. 15; Serial No. 634,393. Class 32.

Doutt, Kingsley A., Detroit, Mich. Hydraulically operated control unit. 579,928, Sept. 15; Serial No. 613,706, published June 2, 1953. Class 23.

Dow Chemical Company, The, Midland, Mich. Synthetic organic chemical. 579,990, Sept. 15; Serial No. 632,775, published June 23, 1953. Class 6.

Dow Corning Corporation, Midland, Mich. Silicone treated fabrics for use in polishing glass, etc. 579,930, Sept. 15; Serial No. 614,654, published June 16, 1953. Class 29.

Drackett Chemical Company, The, to The Drackett Company, Cincinnati, Ohio. Caustic soda, chlorinated lime, epsom salt, etc. 303,123, renewed May 9, 1953. O. G. Sept. 15. Class 52.

Drackett Company, The: *See*—
Drackett Chemical Company, The.

Drake Laboratories, Incorporated, Orange, N. J. Massage lotion used in the treatment of sprains, etc. 580,031, Sept. 15; Serial No. 637,916, published June 23, 1953. Class 18.

Drugmaster, Inc.: *See*—
National Package Drugs, Inc.

Dubuque Packing Company, Dubuque, Iowa. Canned Vienna sausage, pressed ham, and pork luncheon meat. 580,138, Sept. 15; Serial No. 632,079. Class 46.

Duchess Fabrics, Inc., New York, N. Y. Fabrics. 579,985, Sept. 15; Serial No. 631,277, published Dec. 16, 1952. Class 42.

Duplan Corporation, The, New York, N. Y. Textile fabrics. 580,057, Sept. 15; Serial No. 640,555, published June 16, 1953. Class 42.

Dupli-Color Products Co., Inc., Chicago, Ill. Plastic coating sprays. 579,939, Sept. 15; Serial No. 619,929, published June 16, 1953. Class 16.

Duroloid Optical Company, Providence, R. I. Optical frames. 580,140, Sept. 15; Serial No. 632,832. Class 26.

Eastern Art Products, Chicago, Ill. Picture frames; table tops; and glass ornamental trimming for table tops. 579,906, Sept. 15; Serial No. 596,488, published June 16, 1953. Class 32.

Eckhart, B. A., Milling Co., Chicago, Ill. Wheat flour. 579,892, Sept. 15; Serial No. 546,979, published Oct. 25, 1949. Class 46.

Edwal Scientific Products Corp., Ringwood, Ill. Photographic developer. 579,982, Sept. 15; Serial No. 630,589, published June 9, 1953. Class 6.

Einiger Mills, Inc., New York, N. Y. Textile fabrics. 580,137, Sept. 15; Serial No. 631,550. Class 42.

Ekco Products Company, assignee: *See*—
Lusto Company, Inc.

Electric Smelting and Aluminum Company, The, Lockport, N. Y., to Cowles Chemical Company, Cleveland, Ohio. Soluble chemical compound for use as a detergent. 92,609, re-renewed July 22, 1953. O. G. Sept. 15. Class 52.

Elizabeth City Hosiery Co., to Robinson Manufacturing Company, Elizabeth City, N. C. Hosiery. 306,316, renewed Nov. 28, 1953. O. G. Sept. 15. Class 39.

Engler Instrument Company: *See*—
Knopf Instrument Company.

Englishtown Cutlery, Ltd., New York, N. Y. Flatware of base metal. 579,889, Sept. 15; Serial No. 515,300, published June 2, 1953. Class 23.

Enro Shirt Company, Inc., The, Louisville, Ky. Negligee and dress shirts, etc. 307,642, renewed Oct. 31, 1953. O. G. Sept. 15. Class 39.

Estwing Manufacturing Company, Incorporated, Rockford, Ill. Hammers and hatchets. 579,941, Sept. 15; Serial No. 620,776, published June 2, 1953. Class 23.

Everfast Fabrics, Inc., New York, N. Y. Piece goods. 579,923, Sept. 15; Serial No. 612,490, published June 16, 1953. Class 42.

Faribault Woolen Mill Company, assignee: *See*—
Klemer, Walter F.

Fawcett, Henry J., Cleveland, Ohio. Apparatus for steam-treating clothes. 579,961, Sept. 15; Serial No. 626,614, published June 16, 1953. Class 24.

Firmenich & Co., New York, N. Y., by Myrurgia, S. A., Barcelona, Spain. Soaps and shaving cream. 399,249, Dec. 22, 1942. Republished Sept. 15. Classes 51 and 52.

Firmenich & Co., New York, N. Y., by Myrurgia, S. A., Barcelona, Spain. Sachets, bath salts, lipsticks, etc. 399,250, Dec. 22, 1942. Republished Sept. 15. Class 51.

Firth Sterling, Inc., Pittsburgh, Pa. by change of name from Firth Sterling Steel & Carbide Corporation. Steel bars, blocks, steel disks, forgings, etc. 579,951, Sept. 15; Serial No. 623,880, published June 23, 1953. Class 14.

Firth Sterling Steel & Carbide Corporation: *See*—
Firth Sterling, Inc.

Fluegelman, N., & Co., Inc., New York, N. Y. Fabric of silk and cotton. 206,669, Feb. 9, 1926. Republished Sept. 15. Class 42.

Food Display Machine Corporation, Chicago, Ill., to King Kone Corporation, New York, N. Y. Corn chips. 308,143, renewed Nov. 21, 1953. O. G. Sept. 15. Class 46.

Food Machinery and Chemical Corporation, New York, N. Y. Purifying, catalytic, and decolorizing materials. 580,049, Sept. 15; Serial No. 639,752, published June 16, 1953. Class 6.

Foote Mineral Company, Philadelphia, Pa. Chemical-metallurgical preparation. 579,995, Sept. 15; Serial No. 633,358, published June 9, 1953. Class 6.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 579,976, Sept. 15; Serial No. 629,789, published June 23, 1953. Class 42.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 580,056, Sept. 15; Serial No. 640,450, published June 16, 1953. Class 42.

Fougera, E., & Co., Inc., New York, N. Y. Solution of succinonitrile. 579,962, Sept. 15; Serial No. 626,870, published June 16, 1953. Class 18.

Fuller Brush Company, The, Hartford, Conn. Carpet sweepers. 579,991, Sept. 15; Serial No. 632,813, published June 2, 1953. Class 23.

Gentry, George A., and Son, Newport News, Va. Power lawn mowers. 580,107, Sept. 15; Serial No. 603,994. Class 23.

Georgia Lumber and Veneer Corporation, Toomsboro, Ga. Plywood. 580,017, Sept. 15; Serial No. 635,593, published June 23, 1953. Class 12.

Gernsback, Hugo, doing business as Sexology Magazine, New York, N. Y. Quarterly publication. 305,558, renewed Aug. 22, 1953. O. G. Sept. 15. Class 38.

Gillette Company, The: *See*—
Gillette Safety Razor Company.
Probak Corporation.

Gillette Safety Razor Company, assignee: *See*—
Probak Corporation.

Gillette Safety Razor Company, to The Gillette Company, Boston, Mass. Safety razor blades. 306,883, renewed Oct. 3, 1953. O. G. Sept. 15. Class 23.

Globe Soap Company, The, to The Proctor & Gamble Company, Cincinnati, Ohio. Soap. 90,635, re-renewed Mar. 11, 1953. O. G. Sept. 15. Class 52.

Glovecraft, Inc., Johnstown, N. Y. Ladies' and men's fabric gloves. 580,147, Sept. 15; Serial No. 642,544. Class 39.

Golde Manufacturing Co., Chicago, Ill. Photographic projectors. 579,896, Sept. 15; Serial No. 580,658, published June 16, 1953. Class 26.

Golden, Perry, doing business under the name Lampo Products, New York, N. Y. Hair conditioning preparation. 580,047, Sept. 15; Serial No. 639,366, published June 23, 1953. Class 51.

Gorton, George, Machine Co., Racine, Wis. Electric arc etching machines, single and multiple attachable electric arc etching heads, etc. 406,730, Aug. 29, 1944. Republished Sept. 15. Class 21.

Great Atlantic and Pacific Tea Company, The, New York, N. Y. Fresh oysters. 580,052, Sept. 15; Serial No. 639,991, published June 16, 1953. Class 46.

Griffith Laboratories, Inc., The, Chicago, Ill. Seasoning composition. 579,929, Sept. 15; Serial No. 613,814, published June 9, 1953. Class 46.

Gross, Milton, Beverly Hills, Calif. Comic strips. 580,005, Sept. 15; Serial No. 635,034, published June 9, 1953. Class 38.

Gross, Samuel P., Inc., Philadelphia, Pa. Textile fabrics. 580,046, Sept. 15; Serial No. 639,327, published June 23, 1953. Class 42.

Haarmann-De Laire-Schaefer Co., to Maywood Chemical Works, Maywood, N. J. Perfumery and flavoring products. 41,630, re-renewed Dec. 8, 1953. O. G. Sept. 15. Class 51.

Haarmann-De Laire-Schaefer Co., to Maywood Chemical Works, Maywood, N. J. Perfumery. 41,631, re-renewed Dec. 8, 1953. O. G. Sept. 15. Class 51.

Hank Sign & Display Co., Adams, Mass. Silk screen type printing machines. 579,919, Sept. 15; Serial No. 609,857, published June 2, 1953. Class 23.

Harbil Manufacturing Co., Chicago, Ill. Paint mixers. 580,070, Sept. 15; Serial No. 641,185, published June 2, 1953. Class 23.

Hardy Herbs: *See*—
Hardy, Sherman K.

Hardy, Sherman K., doing business as Hardy Herbs, Lexington, Mass. Fresh onions. 580,020, Sept. 15; Serial No. 635,766, published June 9, 1953. Class 46.

Harmon, F. S., Manufacturing Company, Tacoma, Wash. Dinette and kitchen tables. 580,000, Sept. 15; Serial No. 634,370, published June 16, 1953. Class 32.

Hatco Chemical Company, Kearny, N. J. Plasticisers. 580,077, Sept. 15; Serial No. 643,683, published June 16, 1953. Class 6.

Hemingway & Bartlett Mfg. Co., The, Watertown, Conn. Thread. 579,936, Sept. 15; Serial No. 624,741, published June 16, 1953. Class 43.

Henney Motor Company, to Henney Motor Company, Inc., Freeport, Ill. Motor-driven ambulances, hearses, funeral coaches, etc. 303,235, renewed May 16, 1953. O. G. Sept. 15. Class 19.

Henney Motor Company, Inc.: *See*—
Henney Motor Company.

Her Majesty Underwear Company, West Columbia, S. C., and New York, N. Y. Infants', girls', pre-teens', teens', women's slips, half slips, panties, etc. 579,888, Sept. 15; Serial No. 511,389, published June 16, 1953. Class 39.

Hess, Reuben, Benton Harbor, Mich. Ointment. 579,944, Sept. 15; Serial No. 621,148, published June 16, 1953. Class 18.

Hettel, Arthur J., by M. J. Hettel, Rochester, N. Y. Hardening powder, mortuary powder, drying powder, etc. 317,830, Oct. 9, 1934. Republished Sept. 15. Class 51.

Hettel, Mayme J.: *See*—
Hettel, Arthur J.

Heyden Chemical Corporation, New York, N. Y. Synthetic resinous particles. 579,942, Sept. 15; Serial No. 620,852, published June 23, 1953. Class 6.

Hilliard, Joseph, doing business as Joseph Northwest, Yakima, Wash. Fresh apples. 580,075, Sept. 15; Serial No. 642,659, published June 23, 1953. Class 46.

Hindu Products Mfg. Corp., Chicago, Ill. Face creams, face powders, body powders, etc. 579,940, Sept. 15; Serial No. 619,999, published June 23, 1953. Class 51.

Hough Shade Corporation: *See*—
International Distributing Co.

Hudson Foam Latex Fabricators, Inc., Yonkers, N. Y. Foam rubber cushions. 580,125, Sept. 15; Serial No. 626,378. Class 32.

Hustad, Hugo R., doing business as M-R Guide Company, Detroit, Mich. Receptacles for holding and shaking down clinical thermometers. 580,127, Sept. 15; Serial No. 626,571. Class 44.

Ideal Kitchen Equipment Co., Inc., New York, N. Y. Hand pushed trucks. 580,122, Sept. 15; Serial No. 623,545. Class 19.

Iden Associates, Chicago, Ill. Glass fabric. 580,039, Sept. 15; Serial No. 638,799, published June 23, 1953. Class 42.

Ilford, Limited, Ilford, Essex, England. Photographic developers. 580,074. Sept. 15; Serial No. 642,654, published June 23, 1953. Class 6.

Industrial Garment Service, Inc., Chicago, Ill. Towel supply service. 580,095, Sept. 15; Serial No. 634,901, published June 23, 1953. Class 100.

Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Pneumatically-operated punches. 579,922, Sept. 15; Serial No. 611,899, published June 2, 1953. Class 23.

International Distributing Co., to Hough Shade Corporation, Janesville, Wis. Porch shades and window shades. 304,583, renewed July 11, 1953. O. G. Sept. 15. Class 32.

International Minerals & Chemical Corporation, Chicago, Ill. Cigarettes. 580,053, Sept. 15; Serial No. 639,995, published June 16, 1953. Class 17.

International Resistance Company, Philadelphia, Pa. Package containing parts for electronic controls. 580,110, Sept. 15; Serial No. 606,428. Class 21.

Iron Lung Ventilator Company: *See*—
Shaver, James B.

Jacobs, Karl M., Fowler, Ind. Combined table and chair. 579,970, Sept. 15; Serial No. 628,539, published June 16, 1953. Class 32.

Jacobus', A. G., Sons Inc., Verona, N. J. Painting rollers. 579,967, Sept. 15; Serial No. 627,686, published June 23, 1953. Class 29.

Jasmine Vineyards, Delano, Calif. Fresh grapes. 580,079, Sept. 15; Serial No. 643,962, published June 23, 1953. Class 46.

Jeep, Vincent J., Chicago, Ill. Food and drink catering service. 580,081, Sept. 15; Serial No. 527,562, published June 16, 1953. Class 100.

Johnson, Gordon, Company, Kansas City, Mo. Poultry plucking machines and parts thereof. 580,139, Sept. 15; Serial No. 632,613. Class 23.

Johnson & Johnson, New Brunswick, N. J. Surgical dressings of gauze and cotton and wool, adhesive plasters, etc. 92,678, re-renewed July 22, 1953. O. G. Sept. 15. Class 44.

Johny Lee of California, Los Angeles, Calif. Children's, girls', and misses' blouses, skirts, jumpers, etc. 579,988, Sept. 15; Serial No. 632,679, published June 23, 1953. Class 39.

Joseph Northwest: *See*—
Hilliard, Joseph.

K & L Drug Company: *See*—
Kornfield, Sanford.

Kahn, David, Inc., North Bergen, N. J. Fountain pens, ball-pointed pens, mechanical pencils and parts therefor. 580,118, Sept. 15; Serial No. 619,512. Class 37.

Kathryn, Inc., Chicago, Ill. Ammoniated chewing gum. 579,897, Sept. 15; Serial No. 582,436, published June 16, 1953. Class 46.

Kemart Corporation, San Francisco, Calif. Artists' high-light white and wash black paints. 579,931, Sept. 15; Serial No. 615,513, published June 16, 1953. Class 16.

Kemp, Albert, Boone, N. C. Hair bleaching powder. 579,917, Sept. 15; Serial No. 606,708, published June 9, 1953. Class 51.

Kennametal Inc., Latrobe, Pa. Titanium carbon compositions, and particularly high temperature compositions, etc. 579,957, Sept. 15; Serial No. 624,836, published June 23, 1953. Class 14.

Kenyon Piece Dyeworks, Inc., The, Kenyon, R. I. Dyeing and printing piece goods. 580,149, Sept. 15; Serial No. 632,990. Class 106.

Kesko Products, Inc., Bristol, Ind. Window sash and closure. 580,131, Sept. 15; Serial No. 628,765. Class 12.

King Kone Corporation: *See*—
Food Display Machine Corporation.

Kinloch Distillery Company Limited, The, Glasgow, Scotland. Scotch whisky. 580,144, Sept. 15; Serial No. 634,067. Class 49.

Kleinert, I. B., Rubber Company, New York, N. Y. Ladies' undergarments. 304,588, renewed July 11, 1953. O. G. Sept. 15. Class 39.

Klemer, Walter F., assignor to Faribault Woolen Mill Company, Faribault, Minn. Combined automobile or stadium robe and carrying case therefor. 580,108, Sept. 15; Serial No. 574,626. Class 42.

Knopf Instrument Company, Jersey City, N. J., now by change of name Engler Instrument Company. Recorders for vehicles. 580,119, Sept. 15; Serial No. 619,762. Class 26.

Koppers Company, Inc., Pittsburgh, Pa. Bituminous emulsions and suspensions used in paving-construction, etc. 579,969. Sept. 15; Serial No. 628,003, published June 23, 1953. Class 12.

Kornfield, Sanford, doing business under the name and style of K & L Drug Company, Oakland, Calif. Vaginal suppositories. 580,117, Sept. 15; Serial No. 616,427. Class 18.

Lake Shore Engineering Company, Iron Mountain, Mich. Grey iron castings, bars, and plates. 580,038, Sept. 15; Serial No. 638,771, published June 16, 1953. Class 14.

Lambert Company, The: *See*—
Lambert Pharmacal Company.

Lambert Company, The, St. Louis, Mo. Dentifrice. 580,043. Sept. 15; Serial No. 639,180, published June 23, 1953. Class 51.

Lambert Pharmacal Company, to The Lambert Company, St. Louis, Mo. Liquid chemical or medical preparation. 41,418, re-renewed Nov. 3, 1953. O. G. Sept. 15. Class 51.

Lambert Pharmacal Company, Wilmington, Del., to The Lambert Company, St. Louis, Mo. Atomizers. 306,178, renewed Sept. 12, 1953. O. G. Sept. 15. Class 44.

Lampo Products: *See*—
Golden, Perry.

Langlois, Albert: *See*—
Cera-Lac Company, The.

Leadway Stores Corporation, San Francisco, Calif. Salad dressing, vinegar, canned vegetables, etc. 303,133, May 9, 1933. Republished Sept. 15. Class 46.

Leeds Ltd. Coats, Inc.: *See*—
Siegel Bros. Garment Corp.

Lehn & Fink Products Corporation: *See*—
Lesquendieu, Incorporated.

Le Roi Company, assignee: *See*—
Transmission & Gear Co., The.

Lesquendieu, Incorporated, New York, N. Y., to Lehn & Fink Products Corporation, Bloomfield, N. J. Face powder, liquid face powder, rouge, etc. 306,692, renewed Dec. 5, 1953. O. G. Sept. 15. Class 51.

Lind, Farris C., Boise, Idaho. Gasoline filling station services. 580,094, Sept. 15; Serial No. 630,421, published June 23, 1953. Class 103.

Lino Paste Co., Chicago, Ill. Composition in the nature of a solvent. 580,071, Sept. 15; Serial No. 641,387, published June 23, 1953. Class 52.

Lloyd, E. E., Paper Company, Chicago, Ill. Writing paper. 304,765, renewed July 18, 1953. O. G. Sept. 15. Class 37.

Logan Co., Louisville, Ky. Metal step railings and metal porch railings. 579,975, Sept. 15; Serial No. 629,441, published June 23, 1953. Class 12.

Lumber Dealers, Inc., Denver and Pueblo, Colo., and Billings, Mont. Insulation and other wall board, batt or loose insulation, asphalt and asbestos roofing, etc. 579,899, Sept. 15; Serial No. 588,647, published June 23, 1953. Class 12.

Lusto Company, Inc., assignor to Ekco Products Company, Chicago, Ill. Compound for polishing copper, stainless steel, etc. 579,911, Sept. 15; Serial No. 603,533, published June 23, 1953. Class 4.

M-R Guide Company: *See*—
Hustad, Hugo R.

Mack's Medical Co. Inc., Waltham, Mass. Medical preparation. 86,811, June 4, 1912. Republished Sept. 15, Class 18.

Mama Cookie Bakeries, Inc., Chicago, Ill. Puddings and malted milk desserts. 308,199, renewed Nov. 21, 1953. O. G. Sept. 15. Class 46.

Manhattan Soap Company, Inc.: *See*—
Burke, Frank G.

Maryland Biscuit Company, The, Baltimore, Md. Salted crackers. 580,101, Sept. 15; Serial No. 525,910. Class 46.

Mastic Asphalt Corporation, South Bend, Ind. Insulating siding. 579,960, Sept. 15; Serial No. 626,095, published June 23, 1953. Class 12.

Maywood Chemical Works: *See*—
Haarmann-De Laire-Schaefer Co.

McAfee Candy Co., Inc., Macon, Ga. Candy. 580,054, Sept. 15; Serial No. 640,405, published June 23, 1953. Class 46.

Medella, Thomas, doing business as Thos. Medella Co., St. Paul, Minn. Preparation for hair treatment, eczema, skin itch, old sores, etc. 580,036, Sept. 15; Serial No. 638,732, published June 23, 1953. Class 18.

Medella, Thos., Co.: *See*—
Medella, Thomas.

Merck & Co., Inc.: *See*—
Sharp & Dohme, Incorporated.

Merriam, G. & C., Company, Springfield, Mass. Dictionaries. 580,148, Sept. 15; Serial No. 642,563. Class 38.

Merrimack Manufacturing Company, assignor to Merrimack Manufacturing Company (1952), Lowell, Mass. Textile fabrics. 579,993, Sept. 15; Serial No. 633,069, published June 23, 1953. Class 42.

Merrimack Manufacturing Company (1952), assignee: *See*—
Merrimack Manufacturing Company.

Metals & Controls Corporation, assignee: *See*—
Metals & Controls Corporation and Spencer Thermostat Company.

Metals & Controls Corporation and Spencer Thermostat Company, Attleboro, Mass., assignor to Metals & Controls Corporation. 579,890, Sept. 15. Temperature and pressure relief valves. Serial No. 590,450, published Oct. 31, 1950. Class 13; electric switches, Serial No. 527,209, published Nov. 27, 1951, Class 21; thermostatic controls for actuating valves and electric switches, Serial No. 527,158, published Nov. 11, 1952. Class 26. (Consolidated certificate, Classes 13, 21, and 26.)

Michigan Powdered Metal Products Company, Inc., Northville, Mich. Machine elements. 580,126, Sept. 15; Serial No. 626,432. Class 23.

Micro Record Corporation, New York, N. Y. Cameras, film projectors, film developing tanks, and film dryers. 580,142, Sept. 15; Serial No. 633,501. Class 26.

Miller, Sam S., doing business as Ohio First Aid & Pharmacal Company, Cleveland, Ohio. Instrument for removing foreign particles from the eye. 579,938, Sept. 15; Serial No. 619,842, published June 23, 1953. Class 44.

Miron Mills, Incorporated, Clinton, Mass. Woolen piece goods. 580,132, Sept. 15; Serial No. 630,199. Class 42.

Mittineague Paper Co., by Strathmore Paper Company, West Springfield Mass. Fine writing paper. 40,093–4, Apr. 14, 1903. Republished Sept. 15, Class 37.

Moritt, I. J., Corporation, New York, N. Y. Sewing machines. 579,945, Sept. 15; Serial No. 621,280, published June 24, 1952. Class 23.

Music Circus: *See*—
Terrell, St. John.

Myrurgia, S. A.: *See*—
Firmenich & Co.

Myrurgia, S. A., Barcelona, Spain. Perfumes, perfume essences, toilet water, etc. 261,353, Sept. 17, 1929. Republished Sept. 15, Class 51.

National Hygienic Products Corp., Akron, Ohio. Prophylactic rubber articles. 580,035, Sept. 15; Serial No. 638,595, published June 16, 1953. Class 44.

National Package Drugs, Inc., St. Louis, Mo., now by change of name Drugmaster, Inc. Cough syrup. 579,943, Sept. 15; Serial No. 621,025, published June 16, 1953. Class 18.

National Printed String Co., Chicago, Ill. Ribbon-like material. 580,114, Sept. 15; Serial No. 610,795. Class 7.

National Sure-Fit Quilting Co., Inc., New York, N. Y. Quilted mattress pads and protectors. 579,977, Sept. 15; Serial No. 630,015, published June 16, 1953. Class 42.

National Tinsel Manufacturing Company, Manitowoc, Wis. Cotton, rayon, tinsel and cellophane ribbon and cord. 579,952, Sept. 15; Serial No. 623,901, published May 5, 1953. Class 7.

Newgren, Rose R., Gates Mills, Ohio. Rodenticides. 579,994, Sept. 15; Serial No. 633,212, published June 16, 1953. Class 6.

News Syndicate Co, Inc., New York, N. Y. Comic strips. 579,959, Sept. 15; Serial No. 625,995, published June 16, 1953. Class 38.

Nicholson File Company, Providence, R. I. Files and rasps. 579,974, Sept. 15; Serial No. 629,213, published June 2, 1953. Class 23.

Northern Milling Company, Wausau, Wis. Dairy, cattle, stock, swine, pigeon and horse feeds; calf meal; poultry scratch feeds, etc. 579,968, Sept. 15; Serial No. 627,767, published June 23, 1953. Class 46.

Nova Sales Co., Trenton, N. J. Shingles and doors. 579,927, Sept. 15; Serial No. 613,678, published June 23, 1953. Class 12.

Oberman Fabrics, Inc., New York, N. Y. Piece goods. 579,979, Sept. 15; Serial No. 630,344, published June 16, 1953. Class 42.

Ohio First Aid & Pharmacal Company: *See*—
Miller, Sam S.

Ossola, J., Co.: *See*—
Ossola, J., Co. Inc.

Ossola, J., Co. Inc., also known as J. Ossola Co., New York, N. Y. Spiced olives. 579,996, Sept. 15; Serial No. 633,694, published June 16, 1953. Class 46.

Ottens, Henry H., by Henry H. Ottens Mfg. Co., Inc., Philadelphia, Pa. Filling for marshmallow goods, meringues, macaroons, etc. 37,897, Mar. 4, 1902. Republished Sept. 15, Class 46.

Ottens, Henry H., by Henry H. Ottens Mfg. Co., Inc., Philadelphia, Pa. Icing-powder. 38,075, Apr. 8, 1902. Republished Sept. 15. Class 46.

Ottens, Henry H., Mfg., Co., Inc.: *See*—
Ottens, Henry H.

Parham, Ortha J., Shreveport, La. Chemical combination used for an external application in the treatment of skin diseases. 107,370, Nov. 23, 1915. Republished Sept. 15, Class 18.

Pate Oil Company, Milwaukee, Wis. Automotive vehicle inspection, lubrication, repair, etc. 580,082, Sept. 15; Serial No. 535,601, published June 16, 1953. Class 103.

Pelahatchie Poultry Company, Pelahatchie, Miss. Dressed poultry. 580,027, Sept. 15; Serial No. 636,602, published June 9, 1953. Class 46.

Pelahatchie Poultry Company, Pelahatchie, Miss. Dressed poultry. 580,028, Sept. 15; Serial No. 636,603, published June 23, 1953. Class 46.

Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Construction cement. 579,949, Sept. 15; Serial No. 623,256, published June 23, 1953. Class 12.

Petrolite Corporation, Webster Groves, Mo. Demulsifier. 580,051, Sept. 15; Serial No. 639,829, published June 9, 1953. Class 6.

Pevely Dairy Company, St. Louis, Mo. Vegetable fat frozen dessert. 580,032, Sept. 15; Serial No. 638,094, published June 16, 1953. Class 46.

Pharmaco, Inc., Kenilworth, N. J. Oral antiseptic, deodorant preparation. 580,010, Sept. 15; Serial No. 635,232, published June 23, 1953. Class 18.

Phelan-Faust Paint Mfg. Co., St. Louis, Mo. Floor enamels, implement paint, screen paint, etc. 579,891, Sept. 15; Serial No. 533,358, published June 16, 1953. Class 16.

Philadelphia Childrens Wear Show, Inc., Philadelphia, Pa. Advertising the goods of others. 580,086, Sept. 15; Serial No. 599,450, published June 16, 1953. Class 101.

Phillips Petroleum Company, Bartlesville, Okla. Carbon compounding material. 579,894, Sept. 15; Serial No. 575,424, published June 23, 1953. Class 6.

Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Medical preparation. 579,937, Sept. 15; Serial No. 619,710, published July 8, 1952. Class 18.

Piston Ring Company, The, to Sealed Power Corporation, Muskegon, Mich. Piston rings. 303,861, renewed June 13, 1953. O. G. Sept. 15. Class 35.

Polaroid Corporation, Cambridge, Mass. Intermittent photographic instruction manuals and publications; and photographic prints and enlargements. 579,986, Sept. 15; Serial No. 631,509, published June 2, 1953. Class 38.

Pratt & Lambert, Inc., Buffalo, N. Y. Varnishes, paint enamels, lacquers, etc. 272,870, July 15, 1930. Republished Sept. 15. Classes 12, 16, and 52.

Price-Driscoll Corporation, New York, N. Y. Combination reel and handle. 580,141, Sept. 15; Serial No. 632,849. Class 22.

Probak Corporation, Jersey City, N. J., assignor to Gillette Safety Razor Company, to The Gillette Company, Boston, Mass. Shaving cream, shaving soap, and razor strops. 306,549, Renewed Dec. 5, 1953. O. G. Sept. 15. Class 4.

Procter & Gamble Company, The: *See*—
Globe Soap Company, The.

Quaker Chemical Products Corporation, Conshohocken, Pa. Chemical additives. 580,076, Sept. 15; Serial No. 642,904, published June 23, 1953. Class 6.

Qualcast Limited, Derby, England. Metal castings. 579,973, Sept. 15; Serial No. 628,872, published June 16, 1953. Class 14.

Ramapo Piece Dye Works, Inc., Sloatsburg, N. Y. Finishing of textile fabrics to render them crease resistant. 580,084, Sept. 15; Serial No. 597,166, published June 23, 1953. Class 106.

Ransom, D., Son and Company, Buffalo, N. Y. Liniment and for an eye lotion. 580,013, Sept. 15; Serial No. 635,318, published June 23, 1953. Class 18.

Ransom, D., Son and Company, Buffalo, N. Y. Syrup compound for minor coughs due to simple colds. 580,014, Sept. 15; Serial No. 635,320, published June 23, 1953. Class 18.

Ransom, D., Son and Company, Buffalo, N. Y. Ointment. 580,015, Sept. 15; Serial No. 635,321, published June 23, 1953. Class 18.

Raybestos-Manhattan, Inc., Passaic, N. J. Asbestos yarns and asbestos thread. 579,972, Sept. 15; Serial No. 628,715, published June 16, 1953. Class 43.

Recker-Best Company, Phoenix, to Earl C. Recker, doing business as Earl C. Recker Company, Mesa, Ariz. Fresh vegetables and melons. 306,133, renewed Nov. 21, 1953. O. G. Sept. 15. Class 46.

Recker, Earl C.: *See*—
Recker-Best Company.

Recker, Earl C., Company: *See*—
Recker-Best Company.

Reefer-Galler, Incorporated, New York, N. Y. Insecticides. 580,073, Sept. 15; Serial No. 641,574, published June 23, 1953. Class 6.

Repello Products Company, Chicago, Ill. Odor dispersing candle. 580,002, Sept. 15; Serial No. 634,807, published June 23, 1953. Class 6.

Republic Steel Corporation, assignee: *See*
Truscon Steel Company.

Richfield Clothes, New York, N. Y. Men's suits. 580,105, Sept. 15; Serial No. 590,181. Class 39.

Rider, John F., Publications, to Bryan Davis Publishing Company, Inc., New York, N. Y. Monthly digest 300,876, renewed Feb. 14, 1953. O. G. Sept. 15. Class 38.

Robinson Manufacturing Company: *See*—
Elizabeth City Hosiery Co.

Rockford Paint Manufacturing Co., Rockford, Ill. Ready mixed colorants. 579,954–5, Sept. 15; Serial Nos. 624,298–9, published June 16, 1953. Class 16.

Rola Company, The, to The Rola Company Inc., Cleveland, Ohio. Radio receiving sets and parts thereof, loud speaker diaphragms, etc. 303,953, renewed June 13, 1953. O. G. Sept. 15. Class 21.

Rola Company Inc., The: *See*—
Rola Company, The.

Rollform, Incorporated, assignee: *See*—
Detroit Acoustical Contracting Co.

Rooke, Harry V., Fort Werth, Tex. Electrically operated grass and hedge trimmers. 580,109, Sept. 15; Serial No. 605,613. Class 23.

Rose-Derry Company, Newton, Mass. Mattresses. 579,933, Sept. 15; Serial No. 617,213, published June 16, 1953. Class 32.

Roth, Otto, Inc., Newark, N. J., to Cotton Razor Blade Company, Boston, Mass. Safety razor blades. 306,894, renewed Oct. 3, 1953. O. G. Sept. 15. Class 23.

Roto Bag Machine Corporation, New York, N. Y. Bag making machinery and perforating machines and parts therefor. 580,004, Sept. 15; Serial No. 634,991, published June 2, 1953. Class 23.

Roy, Milton, Company, Philadelphia, Pa. Air-powered controlled volume pump. 579,946, Sept. 15; Serial No. 621,423, published June 16, 1953. Class 26.

Royal Typewriter Company, Inc., New York, N. Y. Auxiliary leg-like support. 580,115, Sept. 15; Serial No. 613,783. Class 32.

Ruberoid Co., The, Bound Brook, N. J., and New York, N. Y. Asbestos-cement shingles. 308,530, renewed Dec. 5, 1953. O. G. Sept. 15, 1953. Class 12.

Sahyun Laboratories: *See*
Sahyun, Melville.

Sahyun, Melville, doing business as Sahyun Laboratories, Santa Barbara, Calif. Vitamins. 580,113, Sept. 15; Serial No. 610,146. Class 18.

Saks & Company, New York, N. Y. Handbags, suit-cases, valises, etc. 305,168, renewed Aug. 8, 1953. O. G. Sept. 15. Class 3.

Saks & Company, New York, N. Y. Ladies' shoes. 306,455, renewed Sept. 19, 1953. O. G. Sept. 15. Class 39.

Sales Affiliates, Inc., New York, N. Y. Hair coloring products. 580,135, Sept. 15; Serial No. 631,124. Class 51.

Salter Canning Company, North Rose, N. Y. Canned fruits and vegetables. 580,033, Sept. 15; Serial No. 638,162, published June 2, 1953. Class 46.

Schering Corporation, Bloomfield, N. J. Ophthalmic preparation. 580,025, Sept. 15; Serial No. 636,399, published June 23, 1953. Class 18.

Schering Corporation, Bloomfield, N. J. Sedative and anti-convulsant. 580,040, Sept. 15; Serial No. 638,814, published June 23, 1953. Class 18.

Schneider, J. M., Limited, Kitchener, Ontario, Canada. Wieners. 579,918, Sept. 15; Serial No. 609,004, published Dec. 2, 1952. Class 46.

Scholler Brothers, Inc., Philadelphia, Pa. Antiseptic treatment for rayon, nylon, other synthetic fibers, etc. 580,067, Sept. 15; Serial No. 641,094, published June 23, 1953. Class 6.

Schrack, Leon C., Columbus, Ohio. Cleaning carpets, rugs and upholstered furniture. 580,085, Sept. 15; Serial No. 598,606, published June 23, 1953. Class 103.

Schulte, D. A., Inc., New York, N. Y. Ladies' hosiery. 580,111, Sept. 15; Serial No. 609,261. Class 39.

Scovill Manufacturing Company, Waterbury, Conn. Hose couplings and menders. 306,140, renewed Sept. 12, 1953. O. G. Sept. 15. Class 13.

Sealed Power Corporation: *See*—
Piston Ring Company, The.

Seco Safety Products Company: *See*—
Tainsh, Peter C.

Security Mills, Inc., Newton, Mass., and New York, N. Y. Knitted fabrics. 580,029, Sept. 15; Serial No. 637,006, published June 23, 1953. Class 42.

Sexology Magazine: *See*—
Gernsback, Hugo.

Shapleigh Hardware Company: *See*—
Simmons Hardware Company.

Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc. Preparation useful in the treatment of conditions of the vascular system. 580,037, Sept. 15; Serial No. 638,739, published June 23, 1953. Class 18.

Shaver, James B., doing business as Iron Lung Ventilator Company, Cleveland, Ohio. Gravity and forced draft roof ventilators. 402,257. July 13, 1943. Republished Sept. 15. Class 34.

Siegel Bros. Garment Corp., by Leeds Ltd. Coats, Inc., New York, N. Y. Woolen and worsted fabrics. 409,175, Sept. 19, 1944. Republished Sept. 15. Class 42.

Siegel Bros. Garment Corp., by Leeds Ltd. Coats, Inc., New York, N. Y. Ladies' and misses' coats and suits. 409,521, Oct. 10, 1944. Republished Sept. 15. Class 39.

Simmons Hardware Company, to Shapleigh Hardware Company, St. Louis, Mo. Ready mixed paints, varnishes, and paint enamels. 307,505–6, renewed Oct. 31, 1953. O. G. Sept. 15. Class 16.

Simonis Company, Chicago, Ill. Hard paste waxlike material for providing a coating or film. 580,021, Sept. 15; Serial No. 635,887, published June 16, 1953. Class 16.

Singer Manufacturing Company, The, Elizabeth, N. J. 579,971, Sept. 15. Belt hooks and cabinet and furniture hardware. Serial No. 628,578, published Apr. 21, 1953, Class 13; electric motors, electro-mechanical drives, electrical transmitters, etc., Serial No. 628,579, published May 19, 1953, Class 21; toy sewing machines, Serial No. 628,580, published Apr. 7, 1953, Class 22; family and commercial sewing machines; darning, embroidery, article fastening, hemstitching, etc., machines, etc., Serial No. 628,581, published May 5, 1953, Class 23; locks and keys, Serial No. 628,582, published June 23, 1953, Class 25; cord belts, composition belts, and power transmission belting, Serial No. 628,583, published Sept. 30, 1952, Class 35. (Consolidated certificate, Classes 13, 21, 22, 23, 25, and 35.)

Skaggs Mfg. Co., Inc., Memphis, Tenn. Metal awnings. 580,003, Sept. 15; Serial No. 634,866, published June 9, 1953. Class 12.

Smith, D. A., & Co., New York, N. Y. Hand woven woolen tweed piece goods. 580,042. Sept. 15; Serial No. 639,083, published June 23, 1953. Class 42.

Smith, Dallas, Corporation, Indianapolis, Ind. Cardboard chairs. 580,133, Sept. 15; Serial No. 630,702. Class 32.

Smith, Kline & French Laboratories, Philadelphia, Pa. Sympatholytic and adrenolytic agent and as an agent affecting the central nervous system. 580,044, Sept. 15, 1953; Serial No. 639,292, published June 23, 1953. Class 18.

Société Anonyme de la Fabrique d'Horlogerie Le Coultre & Cie, Le Sentier, Switzerland. Watches, watch movements, and parts thereof. 304,606–7, renewed July 11, 1953. O. G. Sept. 15. Class 27.

Soil and Water Conservation, Inc., Temple, Tex. Periodical. 580,123, Sept. 15; Serial No. 624,976. Class 38.

Spencer Chemical Company, Kansas City, Mo. Weed killer. 580,034, Sept. 15; Serial No. 638,218, published June 23, 1953. Class 6.

Spinnerin Yarn Co., Inc., South Hackensack, N. J. Yarn. 580,039, Sept. 15; Serial No. 640,816, published June 16, 1953. Class 43.

Sport Seat, Columbus, Miss. Portable collapsible seat. 580,129, Sept. 15; Serial No. 626,963. Class 32.

Standard Brands Incorporated, New York, N. Y. Gin and other potable distilled liquors. 308,439, renewed Dec. 5, 1953. O. G. Sept. 15. Class 49.

Standard Folding Trays Corp., Brooklyn, N. Y. Folding paper boxes. 580,116, Sept. 15; Serial No. 614,413. Class 2.

Star Brush Manufacturing Co., Inc., Boston, Mass. Brushes. 579,912, Sept. 15; Serial No. 603,901, published June 16, 1953. Class 29.
Stauffer Chemical Company, San Francisco, Calif. Cream tartar, tartaric acid, etc. 502,485, Sept. 28, 1948. Amended. O. G. Sept. 15. Class 6.
Stephano Brothers, Philadelphia, Pa. Cigarettes. 308,486, renewed Dec. 5, 1953. O. G. Sept. 15. Class 17.
Stevens, J. P., & Co., Inc., New York, N. Y. Fabrics. 580,068, Sept. 15; Serial No. 641,099, published June 23, 1953. Class 42.
Strasenburgh, R. J., Company, Rochester, N. Y. Medicinal preparation. 580,006, Sept. 15; Serial No. 635,068, published June 23, 1953. Class 18.
Strathmore Paper Company: *See*—
Mittineague Paper Co.
Strathmore Paper Company, West Springfield, Mass. Papetries, bristol board, paper and cards, etc. 264,527, Nov. 26, 1929. Republished Sept. 15. Class 37.
Strathmore Paper Company, West Springfield, Mass. Writing and printing paper. 302,389, Apr. 18, 1933. Republished Sept. 15. Class 37.
Strathmore Paper Company, West Springfield, Mass. Writing and printing paper. 302,350, Apr. 25, 1933. Republished Sept. 15. Class 37.
Strohmeyer & Arpe Company, New York, N. Y. Synthetic waxes and substitute waxes. 580,008, Sept. 15; Serial No. 635,200, published June 23, 1953. Class 6.
Superior Sleeprite Corporation, Chicago, Ill. Mattresses and box springs. 579,926, Sept. 15; Serial No. 613,350, published June 16, 1953. Class 32.
Synthetic Chemicals, Inc., Paterson, N. J. Colloidal penetrating agent. 580,078, Sept. 15; Serial No. 643,734, published June 9, 1953. Class 6.
Talnah, Peter C., doing business as Seco Safety Products Company, Detroit, Mich. Safety clothing. 579,901, Sept. 15; Serial No. 590,765, published May 20, 1952. Class 39.
Tektronix, Inc., Portland, Oreg. Electronic measuring instruments and auxiliary apparatus. 580,007, Sept. 15; Serial No. 635,104, published June 16, 1953. Class 26.
Terrell, St. John, doing business under the name and style of Music Circus, Lambertville, N. J., Miami, Fla., and Hyamis, Cape Cod, Mass. Producing and directing musical and dramatic presentations. 580,087, Sept. 15; Serial No. 605,500, published June 23, 1953. Class 107.
Thomas, Susan, New York, N. Y. Ladies' and misses' blouses, dresses, skirts, etc. 580,024, Sept. 15; Serial No. 636,260, published June 23, 1953. Class 39.
Toledo Scale Company, Toledo, Ohio. Weighing scales, and device for measuring, indicating and/or recording gravitational, centrifugal, etc. forces, etc. 580,128, Sept. 15; Serial No. 626,844. Class 26.
Topton Rug Manufacturing Co., Mertztown, Pa., and New York, N. Y. Wool braided rugs. 580,069, Sept. 15; Serial No. 641,101, published June 23, 1953. Class 42.
Top Wip Company, St. Louis, Mo., by mesne assignments, from Development Research, Inc. Fluffed cream. 580,121, Sept. 15; Serial No. 621,759. Class 46.
Trachtenberg, Alice, Zurich, Switzerland. Brochures, leaflets, textbooks. 579,963, Sept. 15; Serial No. 626,929, published June 16, 1953. Class 38.
Transmission & Gear Co., The, Dearborn, Mich., assignor to Le Roi Company, Milwaukee, Wis. Power shove s. 580,022, Sept. 15; Serial No. 635,982, published May 5, 1953. Class 23.
Truscon Steel Company, Youngstown, assignor to Republic Steel Corporation, Cleveland, Ohio. Unfinished pressed steel stampings. 579,920, Sept. 15; Serial No. 611,203, published June 16, 1953. Class 14.
Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.
Union Carbide and Carbon Corporation, New York, N. Y. Low-carbon ferrochrome pellets for use in making stainless and other alloy steel. 579,997, Sept. 15; Serial No. 633,796, published Apr. 14, 1953. Class 14.
United States Gypsum Company, Chicago, Ill. Wall coatings in the nature of paint. 579,916, Sept. 15; Serial No. 607,057, published June 16, 1953. Class 16.
Van Pelt & Brown, Inc., Richmond, Va. Medicine for use in the treatment of constipation, medicine for use as a urinary antiseptic, etc. 435,060, Dec. 9, 1947. Republished Sept. 15. Class 18.
Van Pelt & Brown, Inc., Richmond, Va. Analgesic tablet. 437,741, Mar. 30, 1948. Republished Sept. 15. Class 18.
Varden Dress, Inc., New York, N. Y. Women's and misses' dresses. 579,895, Sept. 15; Serial No. 579,240, published May 2, 1950. Class 39.
Vaudable, Louis, Paris, France. Catering services. 580,091, Sept. 15; Serial No. 626,767, published June 23, 1953. Class 100.
Vega Baking Company Incorporated, Norwood, Mass. Breads, rolls, pastries, etc. 579,914–15, Sept. 15; Serial Nos. 604,930–40, published June 23, 1953. Class 46.
Victor Drug Company, Chicago, Ill. Medicinal ointment. 580,009, Sept. 15; Serial No. 635,206, published June 23, 1953. Class 18.
Victoria Distributors: *See*—
Brunner, Oscar A.
Wacker-Chemie G. m. b. H.: *See*—
Wacker, Dr. Alexander, Gesellschaft für Elektrochemische Industrie, G. m. b. H.
Wacker, Dr., Alexander, Gesellschaft für Electrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany, now by change of name Wacker-Chemie G. m. b. H. Polyvinyl chloride. 580,001, Sept. 15; Serial No. 634,507, published Mar. 31, 1953. Class 6.
Waldron, John, Corporation, Highland Park, N. J. Roll coater, impregnator and laminator machines. 579,987, Sept. 15; Serial No. 641,586, published June 16, 1953. Class 23.
Warner-Hudnut, Inc., New York, N. Y. Razors. 580,018, Sept. 15; Serial No. 635,667, published June 2, 1953. Class 23.
Warner-Quinlan Asphalt Company, Syracuse, to Cities Service Oil Company, New York, N. Y. Asphaltum. 93,055, re-renewed Aug. 12, 1953. O. G. Sept. 15. Class 12.
Watkins, J. R., Company, The, Winona, Minn. Column heading appearing periodically in publications. 579,999, Sept. 15; Serial No. 633,896, published June 9, 1953. Class 38.
Wawak Company, Inc., Chicago, Ill. Piece goods. 429,969, June 3, 1947. Republished Sept. 15. Class 42.
Wayne Weavers, Inc., Philadelphia, Pa. Various fabrics. 579,980, Sept. 15; Serial No. 630,363, published June 16, 1953. Class 42.
Webb, Thomas J., Company, Chicago, Ill. Coffee and tea. 579,898, Sept. 15; Serial No. 582,808, published June 23, 1953. Class 46.
Weber, Jacob N., Seattle, Wash. T-shaped projectable and retractable measuring sticks. 580,143, Sept. 15; Serial No. 633,809. Class 26.
Welcraft Products Co., Inc., North Liberty, Ind. Back rests for seats. 579,965, Sept. 15; Serial No. 627,157, published June 16, 1953. Class 32.
Whitaker, Lester S., Jr., Niles, Calif. Sunscreen-suntan lotion. 580,136, Sept. 15; Serial No. 631,387. Class 51.
White-Stokes Company, Incorporated, Chicago, Ill. Icing, dressing for salad, fruits, etc. 92,608, re-renewed July 15, 1953. O. G. Sept. 15. Class 46.
White-Stokes Company, Incorporated, Chicago, Ill. Confectioners' paste to be used in making candies. 306,866, renewed Oct. 3, 1953. O. G. Sept. 15. Class 46.
Williaform Mfg. Co. Inc., New York, N. Y. Girdles. 580,060, Sept. 15; Serial No. 640,827, published June 16, 1953. Class 39.
Winterwarm Company, Chicago, Ill. Electric blankets, electric sheets, electric mattress pads, etc. 580,130, Sept. 15; Serial No. 628,075. Class 21.
Wood'a, T. B., Sons, Company, Chambersburg, Pa. Ball bearing pillow blocks and flange units and related housings. 580,124, Sept. 15; Serial No. 625,705. Class 23.
Woodzan Co., Inc., The, Ridgewood, N. J. Floor finish varnish and reducer therefor. 579,934, Sept. 15; Serial No. 618,430, published June 16, 1953. Class 16.
Worcester Baking Company, Worcester, Mass. Bread. 93,484, re-renewed Sept. 16, 1953. O. G. Sept. 15. Class 46.
Worumbo Manufacturing Company, Lisbon Falls, Maine. Woolen fabrics. 307,857–8, renewed Nov. 7, 1953. O. G. Sept. 15. Class 42.
Wrigley, Wm., Jr., Company, Chicago, Ill. Chewing gum. 304,150, renewed June 20, 1953. O. G. Sept. 15. Class 46.
Wyandotte Chemicals Corporation, Wyandotte, Mich. Water softening compound. 580,080, Sept. 15; Serial No. 643,989, published June 9, 1953. Class 6.
Zeller Corporation, The, Defiance, Ohio. Steel and alloy steel machined parts, forgings, and stampings. 579,989, Sept. 15; Serial No. 632,705, published June 16, 1953. Class 14.
Zion Industries, Inc., Zion, Ill. Candies, cookies, and pastries. 580,102, Sept. 15; Serial No. 570,346. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Amorphous graphite ores, pulverized Mexican, Ceylon, and artificial graphites, etc. Cummings-Moore Graphite Company. 436,546, Feb. 10, 1948. Republished Sept. 15.

Box containing earth with a layer of seeds on the top, etc. Camden Park Greenhouses. 579,900, Sept. 15; Serial No. 590,255, published June 23, 1953.

CLASS 2

Boxes, Folding paper. Standard Folding Trays Corp. 580,116, Sept. 15; Serial No. 614,413.

CLASS 3

Handbags, suit-cases, valises, etc. Saks & Company. 305,168, renewed Aug. 8, 1953. O. G. Sept. 15.

CLASS 4

Compound for polishing copper, stainless steel, etc. Lusto Company, Inc. 579,911, Sept. 15; Serial No. 603,533, published June 23, 1953.
Shaving cream, shaving soap, and razor strops. Probak Corporation. 308,549, renewed Dec. 5, 1953. O. G. Sept. 15.

CLASS 6

Acetone, carbon tetrachloride, caustic soda, and trisodium phosphate. John A. Chew, Incorporated. 580,058, Sept. 15; Serial No. 640,784, published June 9, 1953.
Antiseptic treatment for rayon, nylon, other synthetic fibers, etc. Scholler Brothers, Inc. 580,067, Sept. 15; Serial No. 641,094, published June 23, 1953.
Carbon compounding material. Phillips Petroleum Company. 579,894, Sept. 15; Serial No. 575,424, published June 23, 1953.
Chemical additives. Quaker Chemical Products Corporation. 580,076, Sept. 15; Serial No. 642,904, published June 23, 1953.
Chemical-metallurgical preparation. Foote Mineral Company. 579,995, Sept. 15; Serial No. 633,358, published June 9, 1953.
Chemical, Synthetic organic. The Dow Chemical Company. 579,990, Sept. 15; Serial No. 632,775, published June 23, 1953.
Coal tar colors. Ciba Limited. 580,006, Sept. 15; Serial No. 642,014, published June 23, 1953.
Colloidal penetrating agent. Synthetic Chemicals, Inc. 580,078, Sept. 15; Serial No. 643,734, published June 9, 1953.
Cream tartar, tartaric acid, etc. Stauffer Chemical Company. 502,485, Sept. 28, 1948. Amended. O. G. Sept. 15.
Demulsifier. Petrolite Corporation. 580,051, Sept. 15; Serial No. 639,529, published June 9, 1953.
Insecticides. Reefer-Galler, Incorporated. 580,073, Sept. 15; Serial No. 641,574, published June 23, 1953.
Liquid composition for the weatherproofing of fabrics and leather. Champion Textile Finishing Co. 579,910, Sept. 15 Serial No. 600,814, published Mar. 25, 1952.
Odor dispersing candle. Repello Products Company. 580,002, Sept. 15; Serial No. 634,807, published June 23, 1953.
Petroleum jelly. Chesebrough Manufacturing Company, Consolidated. 92,534, re-renewed July 15, 1953. O. G. Sept. 15.
Photographic developer. Edwal Scientific Products Corp. 579,982, Sept. 15; Serial No. 630,589, published June 9, 1953.
Photographic developers. Ilford, Limited. 580,074, Sept. 15; Serial No. 642,654, published June 23, 1953.
Plasticizers. Hatco Chemical Company. 580,077, Sept. 15; Serial No. 643,683, published June 16, 1953.
Polysaccharide, glucuronolactone, sodium glucuronate, etc. Corn Products Refining Company. 579,964, Sept. 15; Serial No. 627,117, published June 16, 1953.
Polyvinyl acetate. Chemische Forschungsgesellschaft m. b. H. 579,998, Sept. 15; Serial No. 633,822, published June 9, 1953.
Polyvinyl chloride. Dr. Alexander Wacker Gesellschaft fur Elektrochemische Industrie, G. m. b. H. 580,001, Sept. 15; Serial No. 634,507, published Mar. 31, 1953.
Purifying, catalytic, and decolorizing materials. Food Machinery and Chemical Corporation. 580,049, Sept. 15; Serial No. 639,752, published June 16, 1953.
Rodenticides. R. R. Newgren. 579,994, Sept. 15; Serial No. 633,212, published June 16, 1953.
Sulfur dioxide, Liquid, liquid methyl chloride, etc. Ansul Chemical Company. 580,048. Sept. 15; Serial No. 639,607, published June 23, 1953.
Synthetic resinous particles. Heyden Chemical Corporation. 579,942, Sept. 15; Serial No. 620,852, published June 23, 1953.
Thermosetting resins. Capital Plastics, Inc. 579,981, Sept. 15; Serial No. 630,387, published June 9, 1953.
Water softening compound. Wyandotte Chemicals Corporation. 580,080, Sept. 15; Serial No. 643,989, published June 9, 1953.
Waxes, Synthetic, and substitute waxes. Strohmeyer & Arpe Company. 580,008, Sept. 15; Serial No. 635,200, published June 23, 1953.
Weed killer. Spencer Chemical Company. 580,034, Sept. 15; Serial No. 638,218, published June 23, 1953.

CLASS 7

Ribbon and cord, Cotton, rayon, tinsel, and cellophane. National Tinsel Manufacturing Company. 579,952, Sept. 15; Serial No. 623,901, published May 5, 1953.
Ribbon-like material. National Printed String Co. 580,114, Sept. 15; Serial No. 610,795.

CLASS 8

Lighters, Automatic cigarette gas. Brown & Bigelow. 580,106, Sept. 15; Serial No. 601,598.
Lighters, Pyrophoric pocket and table, flints, and smoking pipe cleaners. Bowers Lighter Company. 579,978, Sept. 15; Serial No. 630,306, published June 16, 1953.

CLASS 9

Matches. The Diamond Match Company. 306,714–16, renewed Sept. 26, 1953. O. G. Sept. 15.
Matches. The Diamond Match Company. 306,719, renewed Sept. 26, 1953. O. G. Sept. 15.

CLASS 12

Asphaltum. Warner-Quinlan Asphalt Company. 93,055, re-renewed Aug. 12, 1953. O. G. Sept. 15.
Awnings, Metal. Skaggs Mfg. Co., Inc. 580,003, Sept. 15; Serial No. 634,866, published June 9, 1953.
Bituminous emulsions and suspensions used in paving construction, etc. Koppers Company, Inc. 579,960, Sept. 15; Serial No. 628,003, published June 23, 1953.
Cement, Construction. The Pennsylvania Salt Manufacturing Company. 579,949, Sept. 15; Serial No. 623,256, published June 23, 1953.
Fastening unit to be used for suspending or furring plasterboard base ceilings, etc. Detroit Acoustical Contracting Co. 579,948, Sept. 15; Serial No. 621,870, published June 23, 1953.
Insulating siding. Mastic Asphalt Corporation. 579,960, Sept. 15; Serial No. 626,095, published June 23, 1953.
Plywood. Georgia Lumber and Veneer Corporation. 580,017, Sept. 15; Serial No. 635,593, published June 23, 1953.
Putty. Baker Paint & Varnish Co. 158,603, Sept. 12, 1922. Republished Sept. 15.
Railings, Metal step, and metal porch railings. Logan Co. 579,975, Sept. 15; Serial No. 629,441, published June 23, 1953.
Shingles and doors. Nova Sales Co. 579,927, Sept. 15; Serial No. 613,678, published June 23, 1953.
Shingles, Asbestos-cement. The Ruberoid Co. 308,530, renewed Dec. 5, 1953. O. G. Sept. 15.
Varnishes, paint enamels, lacquers, etc. Pratt & Lambert, Inc. 272,870, July 15, 1930. Republished Sept. 15.
Wall board, Insulation and other, batt or loose insulation, asphalt and asbestos roofing, etc. Lumber Dealers, Inc. 579,899, Sept. 15; Serial No. 588,647, published June 23, 1953.
Window sash and closure. Kesko Products, Inc. 580,131, Sept. 15; Serial No. 628,765.
Windows, Hospital and institution. The William Bayley Company. 580,120, Sept. 15; Serial No. 620,021.

CLASS 13

Belt hooks and cabinet and furniture hardware. The Singer Manufacturing Company. 579,971, Sept. 15; Serial No. 628,578, published Apr. 21, 1953. (Consolidated certificate, Classes 13, 21, 22, 23, 25, and 35.)
Hose couplings and menders. Scovill Manufacturing Company. 306,140, renewed Sept. 12, 1953. O. G. Sept. 15.
Temperature and pressure relief valves. Metals & Controls Corporation and Spencer Thermostat Company. 579,890, Sept. 15; Serial No. 590,450, published Oct. 31, 1950. (Consolidated certificate, Classes 13, 21, and 26.)

CLASS 14

Iron castings, bars, and plates, Grey. Lake Shore Engineering Company. 580,038, Sept. 15; Serial No. 638,771, published June 16, 1953.
Low-carbon ferrochrome pellets for use in making stainless and other alloy steel. Union Carbide and Carbon Corporation. 579,997, Sept. 15; Serial No. 633,796, published Apr. 14, 1953.
Metal castings. Qualcast Limited. 579,973, Sept. 15; Serial No. 628,872, published June 16, 1953.
Metal die castings. Blue Ridge Pressure Castings, Inc. 579,953, Sept. 15; Serial No. 623,932, published June 16, 1953.
Semi-finished castings. Crucible Steel Company of America. 579,958, Sept. 15; Serial No. 624,932, published June 16, 1953.
Steel and alloy steel machined parts, forgings, and stampings. The Zeller Corporation. 579,989, Sept. 15; Serial No. 632,705, published June 16, 1953.
Steel bars, blocks, steel disks, forgings, etc. Firth Sterling, Inc. 579,951, Sept. 15; Serial No. 623,880, published June 23, 1953.
Steel stampings, Unfinished pressed. Truscon Steel Company. 579,920, Sept. 15; Serial No. 611,203, published June 16, 1953.
Titanium carbon compositions, and particularly high temperature compositions, etc. Kennametal Inc. 579,957, Sept. 15; Serial No. 624,836, published June 23, 1953.

CLASS 15

Oil and kerosene, Fuel. Consolidated Oil Company. 580,112, Sept. 15; Serial No. 609,963.

CLASS 16

Carbon black used as an ingredient of protective and decorative coatings. Godfrey L. Cabot, Inc. 579,950, Sept. 15; Serial No. 623,400, published June 16, 1953.

Coating composition, Strippable protective. Bee Chemical Company. 579,936, Sept. 15; Serial No. 619,378, published June 16, 1953.
Coating, Rust preventing phosphate. Apothecaries Hall Co. 580,016, Sept. 15; Serial No. 635,341, published June 16, 1953.
Coating sprays, Plastic. Dupli-Color Products Co., Inc. 579,939, Sept. 15; Serial No. 619,929, published June 16, 1953.
Enamels, Floor, implement paint, screen paint, etc. Phelan-Faust Paint Mfg. Co. 579,891, Sept. 15; Serial No. 533,358, published June 16, 1953.
Paints, Artists' highlight white and wash black. Kemart Corporation. 579,931, Sept. 15; Serial No. 615,513, published June 16, 1953.
Paints, Ready mixed, paint enamel, varnish, etc. Chicago Paints, Inc. 579,902–3, Sept. 15; Serial Nos. 592,124–7, published Nov. 27, 1951.
Paints, Ready mixed, varnishes, and paint enamels. Simmons Hardware Company. 307,595–6, renewed Oct. 31, 1953. O. G. Sept. 15.
Ready mixed colorants. Rockford Paint Manufacturing Co. 579,954–5, Sept. 15; Serial Nos. 624,298–9, published June 16, 1953.
Sealing and coating composition, Plastic. A. M. Cleaver. 580,011, Sept. 15; Serial No. 635,251, published June 16, 1953.
Varnish and reducer therefor, Floor finish. The Woodzan Co., Inc. 579,934, Sept. 15; Serial No. 618,430, published June 16, 1953.
Varnishes, paint enamels, lacquers, etc. Pratt & Lambert, Inc. 272,870, July 15, 1930. Republished Sept. 15.
Wall coatings in the nature of paint. United States Gypsum Company. 579,916, Sept. 15; Serial No. 607,057, published June 16, 1953.
Waxlike material for providing a coating or film, Hard paste. Simoniz Company. 580,021, Sept. 15; Serial No. 635,887, published June 16, 1953.

CLASS 17

Cigarettes. International Minerals & Chemical Corporation. 580,053, Sept. 15; Serial No. 639,995, published June 16, 1953.
Cigarettes. Stephano Brothers. 308,486, renewed Dec. 5, 1953. O. G. Sept. 15.

CLASS 18

Analgesic tablet. Van Pelt & Brown, Inc. 437,741, Mar. 30, 1948. Republished Sept. 15.
Antibiotic. American Cyanamid Company. 580,012, Sept. 15; Serial No. 635,284, published June 23, 1953.
Anti-menorrhagic factor. Armour and Company. 580,041, Sept. 15; Serial No. 638,942, published June 23, 1953.
Antiseptic, deodorant preparation, Oral. Pharmaco, Inc. 580,010, Sept. 15; Serial No. 635,232, published June 23, 1953.
Chemical combination used for an external application in the treatment of skin diseases. O. J. Parham. 107,370, Nov. 23, 1915. Republished Sept. 15.
Cough syrup. National Package Drugs, Inc. 579,943, Sept. 15; Serial No. 621,025, published June 16, 1953.
Liniment and for an eye lotion. D. Ransom, Son and Company. 580,013, Sept. 15; Serial No. 635,318, published June 23, 1953.
Massage lotion used in the treatment of sprains, etc. Drake Laboratories, Incorporated. 580,031, Sept. 15; Serial No. 637,916, published June 23, 1953.
Medical preparation. Mack's Medical Co. Inc. 86,811, June 4, 1912. Republished Sept. 15.
Medical preparation. Physicians and Hospitals Supply Company, Inc. 579,937, Sept. 15; Serial No. 619,710, published July 8, 1952.
Medicinal preparation. R. J. Strasenburgh Company. 580,006, Sept. 15; Serial No. 635,068, published June 23, 1953.
Medicine for use in the treatment of constipation, medicine for use as a urinary antiseptic, etc. Van Pelt & Brown, Inc. 435,060, Dec. 9, 1947. Republished Sept. 15.
Ointment. R. Hess. 579,944, Sept. 15; Serial No. 621,148, published June 16, 1953.
Ointment. D. Ransom, Son and Company. 580,015, Sept. 15; Serial No. 635,321, published June 23, 1953.
Ointment, Medicinal. Victor Drug Company. 580,009, Sept. 15; Serial No. 635,206, published June 23, 1953.
Ophthalmic preparation. Schering Corporation. 580,025, Sept. 15; Serial No. 636,399, published June 23, 1953.
Preparation for hair treatment, eczema, skin itch, old sores, etc. T. Medella. 580,036, Sept. 15; Serial No. 638,732, published June 23, 1953.
Preparation for prophylactic management of ambulatory patients. Allied Laboratories, Inc. 580,045, Sept. 15; Serial No. 639,306, published June 23, 1953.
Preparation useful in the treatment of conditions of the vascular system. Sharp & Dohme Incorporated. 580,037, Sept. 15; Serial No. 638,739, published June 23, 1953.
Sedative and anti-convulsant. Schering Corporation. 580,040, Sept. 15; Serial No. 638,614, published June 23, 1953.
Solution of succinonitrile. E. Fougera & Co., Inc. 579,962, Sept. 15; Serial No. 626,870, published June 16, 1953.
Sympatholytic and adrenolytic agent and as an agent affecting the central nervous system. 580,044, Sept. 15; Serial No. 639,292, published June 23, 1953.
Syrup compound for minor coughs due to simple colds. D. Ransom, Son and Company. 580,014, Sept. 15; Serial No. 635,320, published June 23, 1953.
Vaginal suppositories. S. Kornfeld. 580,117, Sept. 15; Serial No. 616,427.
Vitamins. M. Sahyun. 580,113, Sept. 15; Serial No. 610,146.

CLASS 19

Ambulances, hearses, funeral coaches, etc., Motor-driven. Henney Motor Company. 303,235, renewed May 16, 1953. O. G. Sept. 15.
Trucks, Hand pushed. Ideal Kitchen Equipment Co., Inc. 580,122, Sept. 15; Serial No. 623,545.
Vehicle registration certificate holder, Automotive. Cobbs Manufacturing Company. 580,145, Sept. 15; Serial No. 634,073.

CLASS 21

Electric arc etching machines, single and multiple attachable electric arc etching heads, etc. George Gorton Machine Co. 408,730, Aug. 29, 1944. Republished Sept. 15.
Electric blankets, electric sheets, electric mattress pads, etc. Winterwarm Company. 580,130, Sept. 15; Serial No. 628,075.
Electric motors, electro-mechanical drives, electric transmitters, etc. The Singer Manufacturing Company. 579,971, Sept. 15; Serial No. 628,579, published May 19, 1953. (Consolidated certificate, Classes 13, 21, 22, 23, 25 and 35.)
Electric switches. Metals & Controls Corporation and Spencer Thermostat Company. 579,890, Sept. 15; Serial No. 527,209, published Nov. 27, 1951. (Consolidated certificate, Classes 13, 21, and 26.)
Package containing parts for electronic controls. 580,110, Sept. 15; Serial No. 606,428.
Radio receiving sets and parts thereof, loud speaker diaphragms, etc. The Rola Company. 303,953, renewed June 13, 1953. O. G. Sept. 15.

CLASS 22

Reel and handle, Combination. Price-Driscoll Corporation 580,141, Sept. 15; Serial No. 632,849.
Toy sewing machines. The Singer Manufacturing Company. 579,971, Sept. 15; Serial No. 628,580, published Apr. 7, 1953. (Consolidated certificate, Classes 13, 21, 22, 23, 25, and 35.)

CLASS 23

Accessories for internal combustion engines. Breeze Corporations, Inc. 317,545, Sept. 25, 1934. Republished Sept. 15.
Bag making machinery and perforating machines and parts therefor. Roto Bag Machine Corporation. 580,004, Sept. 15; Serial No. 634,991, published June 2, 1953.
Ball bearing pillow blocks and flange units and related housings. T. B. Wood's, Sons, Company. 580,124, Sept. 15; Serial No. 625,705.
Carpet sweepers. The Fuller Brush Company. 579,991, Sept. 15; Serial No. 632,813, published June 2, 1953.
Family and commercial sewing machines, darning, embroidery, article fastening, hemstitching, etc., machines, etc. The Singer Manufacturing Company. 579,971, Sept. 15; Serial No. 628,581, published May 5, 1953. (Consolidated certificate, Classes 13, 21, 22, 23, 25, and 35.)
Files and rasps. Nicholson File Company. 579,974, Sept. 15; Serial No. 629,213, published June 2, 1953.
Flatware of base metal. Englishtown Cutlery, Ltd. 579,889, Sept. 15; Serial No. 515,300, published June 2, 1953.
Grass and hedge trimmers, Electrically operated. H. V. Rooke. 580,109, Sept. 15; Serial No. 606,613.
Hammers and hatchets. Estwing Manufacturing Company, Incorporated. 579,941. Sept. 15; Serial No. 620,776, published June 2, 1953.
Hammers, Soft. The Custanite Corporation. 579,992, Sept. 15; Serial No. 632,828, published June 2, 1953.
Hydraulically operated control unit. K. A. Doutt. 579,928, Sept. 15; Serial No. 613,706, published June 2, 1953.
Lawn mowers, Power. George A. Gentry and Son. 580,107, Sept. 15; Serial No. 603,994.
Machine elements. Michigan Powdered Metal Products Company, Inc. 580,126, Sept. 15; Serial No. 626,432.
Paint mixers. Harbil Manufacturing Co. 580,070, Sept. 15; Serial No. 641,185, published June 2, 1953.
Piston pins and ball bearings. Burgess-Norton Mfg. Co. 580,023, Sept. 15; Serial No. 635,994, published June 2, 1953.
Pneumatically-operated punches. Ingersoll-Rand Company. 579,922, Sept. 15; Serial No. 611,899, published June 2, 1953.
Poultry plucking machines and parts thereof. Gordon Johnson Company. 580,139, Sept. 15; Serial No. 632,613.

Razor blades, Safety. Gillette Safety Razor Company. 306,883, renewed Oct. 3, 1953. O. G. Sept. 15.
Razor blades, Safety. Otto Roth, Inc. 306,894, renewed Oct. 3, 1953. O. G. Sept. 15.
Razors, Warner-Hudnut, Inc. 580,018, Sept. 15; Serial No. 635,667, published June 2, 1953.
Roll coater, Impregnator and laminator machines. John Waldron Corporation. 579,987, Sept. 15; Serial No. 641,586, published June 16, 1953.
Sewing and darning machines and parts thereof. Brütsch & Co. 579,966, Sept. 15; Serial No. 627,622, published May 19, 1953.
Sewing machines. I. J. Moritt Corporation. 579,945, Sept. 15; Serial No. 621,280, published June 24, 1952.
Shovels, Power. The Transmission & Gear Co. 580,022, Sept. 15; Serial No. 635,982, published May 5, 1953.
Silk screen type printing machines. Hank Sign & Display Co. 579,919, Sept. 15; Serial No. 609,857, published June 2, 1953.
Wrenches. Bonney Forge & Tool Works. 306,876, renewed Oct. 3, 1953. O. G. Sept. 15.

CLASS 24

Apparatus for steam-treating clothes. H. J. Fawcett. 579,961, Sept. 15; Serial No. 626,614, published June 16, 1953.
Laundry cabinet dryers, dry cleaning machines, ironing boards, etc. Columbia Phonograph Company, Inc. 302,401, renewed Apr. 18, 1953. O. G. Sept. 15.

CLASS 25

Locks and keys. The Singer Manufacturing Company. 579,971, Sept. 15; Serial No. 628,582, published June 23, 1953. (Consolidated Certificate, Classes 13, 21, 22, 23, 25, and 35.)

CLASS 26

Air-powered controlled volume pump. Milton Roy Company. 579,946, Sept. 15; Serial No. 621,423, published June 16, 1953.
Cameras, film projectors, film developing tanks, and film dryers. Micro Record Corporation. 580,142, Sept. 15; Serial No. 633,501.
Eyeshields and goggles. Bausch & Lomb Optical Company. 580,026, Sept. 15; Serial No. 636,508, published June 16, 1953.
Lenses, Ophthalmic. Bausch & Lomb Optical Company. 308,427, renewed Dec. 5, 1953. O. G. Sept. 15.
Measuring instruments and auxiliary apparatus, Electronic. Tektronix, Inc. 580,007, Sept. 15; Serial No. 635,104, published June 16, 1953.
Measuring sticks, T-shaped projectable and retractable. J. N. Weber. 580,143, Sept. 15; Serial No. 633,809.
Optical frames. Duroloid Optical Company. 580,140, Sept. 15; Serial No. 632,832.
Photographic projectors. Golde Manufacturing Co. 579,896, Sept. 15; Serial No. 580,658, published June 16, 1953.
Recorders for vehicles. Knopf Instrument Company. 580,119, Sept. 15; Serial No. 619,762.
Thermostatic controls for actuating valves and electric switches. Metals & Controls Corporation and Spencer Thermostat Company. 579,890, Sept. 15; Serial No. 527,158, published Nov. 11, 1952. (Consolidated certificate, Classes 13, 21, and 26.)
Vacuum tube testing and inspecting apparatus and instruments. Buck Engineering Company, Inc. 579,913, Sept. 15; Serial No. 604,355, published June 16, 1953.
Weighing scales, and device for measuring, indicating and/or recording gravitational, centrifugal, etc. forces, etc. Toledo Scale Company. 580,128, Sept. 15; Serial No. 626,844.

CLASS 27

Watches and portable clocks. W. C. Ball. 35,047, Sept. 18, 1900. Republished Sept. 15.
Watches, watch movements, and parts thereof. Société Anonyme de la Fabrique d'Horlogerie Le Coultre & Cie. 304,606–7, renewed July 11, 1953. O. G. Sept. 15.

CLASS 29

Brushes. Star Brush Manufacturing Co., Inc. 579,912, Sept. 15; Serial No. 603,901, published June 16, 1953.
Brushes, Paint and similar type protective and decorative coating and surfacing. Samuel M. Dell & Co., Inc. 580,019, Sept. 15; Serial No. 635,690, published June 23, 1953.
Painting rollers. A. G. Jacobus' Sons Inc. 579,967, Sept. 15; Serial No. 627,686, published June 23, 1953.
Silicone treated fabrics for use in polishing glass, etc. Dow Corning Corporation. 579,930, Sept. 15; Serial No. 614,654, published June 16, 1953.

CLASS 31

Refrigerators and parts thereof. Columbia Phonograph Company, Inc. 303,744, renewed June 6, 1953. O. G. Sept. 15.

CLASS 32

Back rests for seats. Welcraft Products Co., Inc. 579,965, Sept. 15; Serial No. 627,157, published June 16, 1953.
Chairs, Cardboard. Dallas Smith Corporation. 580,133, Sept. 15; Serial No. 630,702.
Cushions, Foam rubber. Hudson Foam Latex Fabricators, Inc. 580,125, Sept. 15; Serial No. 626,378.
Filing boxes, Cardboard and corrugated-board storage. Bankers Box Company. 579,893, Sept. 15; Serial No. 553,063, published Dec. 11, 1951.
Leg-like support, Auxiliary. Royal Typewriter Company, Inc. 580,115, Sept. 15; Serial No. 613,783.
Mattresses. Rose-Derry Company. 579,933, Sept. 15; Serial No. 617,213, published June 16, 1953.
Mattresses and box springs. Superior Sleeprite Corporation. 579,926, Sept. 15; Serial No. 613,350, published June 16, 1953.
Picture frames; table tops; and glass ornamental trimming for table tops. Eastern Art Products. 579,906, Sept. 15; Serial No. 596,488, published June 16, 1953.
Picture, photograph, and mirror frames. Century Industries, Inc. 579,932, Sept. 15; Serial No. 616,278, published June 16, 1953.
Seat, Portable collapsible. Sport Seat. 580,129, Sept. 15; Serial No. 626,953.
Shades, Porch, and window shades. International Distributing Co. 304,583, renewed July 11, 1953. O. G. Sept. 15.
Table and chair, Combined. K. M. Jacobs. 579,970, Sept. 15; Serial No. 628,539, published June 16, 1953.
Tables and chairs, Kitchen and dinette. Douglas Furniture Corporation. 580,146, Sept. 15; Serial No. 634,393.
Tables, Dinette and kitchen. F. S. Harmon Manufacturing Company. 580,000, Sept. 15; Serial No. 634,370, published June 16, 1953.

CLASS 34

Ventilators, Gravity and forced draft roof. J. B. Shaver. 402,257, July 13, 1943. Republished Sept. 15.

CLASS 35

Belts, Transmission, and belting. Allis-Chalmers Manufacturing Company. 306,089, renewed Sept. 5, 1953. O. G. Sept. 15.
Cord belts, composition belts, and power transmission belting. The Singer Manufacturing Company. 579,971, Sept. 15; Serial No. 628,583, published Sept. 30, 1952. (Consolidated certificate, Classes 13, 21, 22, 23, 25, and 35.)
Piston rings. The Piston Ring Company. 303,861, renewed June 13, 1953. O. G. Sept. 15.
Tires, Vehicle, and inner tubes. The Dayton Rubber Manufacturing Company. 303,467, renewed May 23, 1953. O. G. Sept. 15.
Tires, Vehicle, and inner tubes. The Dayton Rubber Manufacturing Company. 303,885, renewed June 13, 1953. O. G. Sept. 15.

CLASS 37

Paper, Fine writing. Mittineague Paper Co. 40,093–4, Apr. 14, 1953. Republished Sept. 15.
Paper, Writing. E. E. Lloyd Paper Company. 304,765, renewed July 18, 1953. O. G. Sept. 15.
Paper, Writing and printing. Strathmore Paper Company. 302,389, Apr. 18, 1933. Republished Sept. 15.
Paper, Writing and printing. Strathmore Paper Company. 302,550, Apr. 25, 1933. Republished Sept. 15.
Papetries, bristol board, paper and cards, etc. Strathmore Paper Company. 264,527, Nov. 26, 1929. Republished Sept. 15.
Pens, Fountain, ball-pointed pens, mechanical pencils and parts therefor. David Kahn, Inc. 580,118, Sept. 15; Serial No. 619,512.

CLASS 38

Blueprints and engineering drawings. American Federation of Technical Engineers. 580,099, Sept. 15; Serial No. 627,027, published June 16, 1953.
Brochures, leaflets, textbooks. A. Trachtenberg. 579,963, Sept. 15; Serial No. 626,929, published June 16, 1953.
Column heading appearing periodically in publications. The J. R. Watkins Company. 579,999, Sept. 15; Serial No. 633,896, published June 9, 1953.
Comic strips. M. Gross. 580,005, Sept. 15; Serial No. 635,034, published June 9, 1953.
Comic strips. News Syndicate Co. Inc. 579,959, Sept. 15; Serial No. 625,995, published June 16, 1953.
Dictionaries. G. & C. Merriam Company. 580,148, Sept. 15; Serial No. 642,563.
Digest, Monthly. John F. Rider Publications. 300,876, renewed Feb. 14, 1953. O. G. Sept. 15.
Mailing lists. Boyd's City Dispatch Incorporated. 580,055, Sept. 15; Serial No. 640,438, published June 23, 1953.
Manuals and publications, Intermittent photographic instruction; and photographic prints and enlargements. Polaroid Corporation. 579,986, Sept. 15; Serial No. 631,569, published June 2, 1953.
Periodical. Soil and Water Conservation, Inc. 580,123, Sept. 15; Serial No. 624,976.
Publication, Quarterly. H. Gernsback. 305,558, renewed Aug. 22, 1953. O. G. Sept. 15.
Publications. Dalton Film Company. 579,924, Sept. 15; Serial No. 612,808, published June 23, 1953.

CLASS 39

Blouses, dresses, skirts, etc., Ladies' and misses'. S. Thomas. 580,024, Sept. 15; Serial No. 636,260, published June 23, 1953.
Blouses, skirts, jumpers, etc., Children's, girls', and misses'. Johny Lee of California. 579,988, Sept. 15; Serial No. 632,679, published June 23, 1953.
Clothing, Safety. P. C. Tainsh. 579,901, Sept. 15; Serial No. 590,765, published May 20, 1952.
Coats and suits, Ladies' and misses'. Siegel Bros. Garment Corp. 409,521, Oct. 10, 1944. Republished Sept. 15.
Dresses, skirts, suits, etc., Ladies'. David Crystal, Inc. 579,983, Sept. 15; Serial No. 630,765, published June 16, 1953.
Dresses, Women's. Carlye Dress Corporation. 580,134, Sept. 15; Serial No. 630,755.
Dresses, Women's and misses'. Varden Dress, Inc. 579,895, Sept. 15; Serial No. 579,240, published May 2, 1950.
Girdles. Willoform Mfg. Co. Inc. 580,060, Sept. 15; Serial No. 640,827, published June 16, 1953.
Girdles, corsets and brassières, etc. Artistic Brassiere Co. Inc. 305,623, renewed Aug. 22, 1953. O. G. Sept. 15.
Gloves, Hunters'. The Banton Corporation. 580,072, Sept. 15; Serial No. 641,491, published June 16, 1953.
Gloves, Ladies' and men's fabric. Glovecraft, Inc. 580,147, Sept. 15; Serial No. 642,544.
Hosiery. Elizabeth City Hosiery Co. 308,316, renewed Nov. 28, 1953. O. G. Sept. 15.
Hosiery, Ladies'. D. A. Schulte, Inc. 580,111, Sept. 15; Serial No. 609,261.
Shirts, etc., Negligee and dress. The Enro Shirt Company, Inc. 307,642, renewed Oct. 31, 1953. O. G. Sept. 15.
Shoes, Ladies'. Saks & Company. 306,455, renewed Sept. 19, 1953. O. G. Sept. 15.
Shoes, Ladies' and misses'. Avon Shoe Co., Inc. 580,108, Sept. 15; Serial No. 605,400.
Slips, half slips, panties, etc., Infants', girls', pre-teens', teens', women's. Her Majesty Underwear Company. 579,888, Sept. 15; Serial No. 511,389, published June 16, 1953.
Suits, Men's. Richfield Clothes. 580,105, Sept. 15; Serial No. 590,181.
Undergarments, Ladies'. I. B. Kleinert Rubber Company. 304,588, renewed July 11, 1953. O. G. Sept. 15.

CLASS 42

Automobile or stadium robe and carrying case therefor, Combined. W. F. Klemer. 580,103, Sept. 15; Serial No. 574,626.
Fabric, Glass. Iden Associates. 580,039, Sept. 15; Serial No. 638,799, published June 23, 1953.
Fabric of silk and cotton. N. Fluegelman & Co., Inc. 208,669, Feb. 9, 1926. Republished Sept. 15.
Fabrics. Duchess Fabrics, Inc. 579,985, Sept. 15; Serial No. 631,277, published Dec. 16, 1952.
Fabrics. J. P. Stevens & Co., Inc. 580,068, Sept. 15; Serial No. 641,099, published June 23, 1953.
Fabrics, Knitted. Security Mills, Inc. 580,029, Sept. 15; Serial No. 637,006, published June 23, 1953.
Fabrics, Pile. Sidney Blumenthal & Co., Inc. 580,063–4, Sept. 15; Serial Nos. 641,005–6, published June 23, 1953.
Fabrics, Textile. The Duplan Corporation. 580,057, Sept. 15; Serial No. 640,555, published June 16, 1953.
Fabrics, Textile. Ehniger Mills, Inc. 580,137, Sept. 15; Serial No. 631,550.
Fabrics, Textile. Samuel P. Gross, Inc. 580,046, Sept. 15; Serial No. 639,327, published June 23, 1953.
Fabrics, Textile. Merrimack Manufacturing Company. 579,993, Sept. 15; Serial No. 633,069, published June 23, 1953.
Fabrics, Treated tarnish proof, napped and pile. Crompton Company. 304,591, renewed July 11, 1953. O. G. Sept. 15.
Fabrics, Various. Wayne Weavers, Inc. 579,980, Sept. 15; Serial No. 630,363, published June 16, 1953.
Fabrics, Woolen. Worumbo Manufacturing Company. 307,857–8, renewed Nov. 7, 1953. O. G. Sept. 15.
Fabrics, Woolen and worsted. Siegel Bros. Garment Corp. 409,175, Sept. 19, 1944. Republished Sept. 15.
Mattress pads and protectors, Quilted. National Sure-Fit Quilting Co., Inc. 579,977, Sept. 15; Serial No. 630,015, published June 16, 1953.
Piece goods. Everfast Fabrics, Inc. 579,923, Sept. 15; Serial No. 612,490, published June 16, 1953.
Piece goods. Oberman Fabrics, Inc. 579,979, Sept. 15; Serial No. 630,344, published June 16, 1953.
Piece goods. Wawak Company, Inc. 429,969, June 3, 1947. Republished Sept. 15.
Piece goods, Hand woven woolen tweed. D. A. Smith & Co. 580,042, Sept. 15; Serial No. 639,083, published June 23, 1953.
Piece goods, Woolen. Forstmann Woolen Co. 579,976, Sept. 15; Serial No. 629,789, published June 23, 1953.
Piece goods, Woolen. Forstmann Woolen Co. 580,056, Sept. 15; Serial No. 640,450, published June 16, 1953.
Piece goods, Woolen. Miron Mills, Incorporated. 580,132, Sept. 15; Serial No. 630,199.
Rugs and carpets, Textile tufted. Aldon Rug Mills, Inc. 580,061, Sept. 15; Serial No. 640,895, published June 23, 1953.
Rugs, Wool braided. Topton Rug Manufacturing Co. 580,069, Sept. 15; Serial No. 641,101, published June 23, 1953.
Sheets, pillow cases, and piece goods. O. A. Brunner. 580,065, Sept. 15; Serial No. 641,010, published June 23, 1953.
Textile materials in the piece. I. P. Bemberg. 304,091, renewed June 20, 1953. O. G. Sept. 15.
Towels, Turkish. Cone Mills Inc. 580,030, Sept. 15; Serial No. 637,480, published June 23, 1953.

CLASS 43

Thread. The Heminway & Bartlett Mfg. Co. 579,956, Sept. 15; Serial No. 624,741, published June 16, 1953.
Yarn. Spinnerin Yarn Co., Inc. 580,059, Sept. 15; Serial No. 640,816, published June 16, 1953.
Yarn, Knitting. Pauline Denham Yarns. 579,984, Sept. 15; Serial No. 630,925, published June 16, 1953.
Yarns, Asbestos, and asbestos thread. Raybestos-Manhattan, Inc. 579,972, Sept. 15; Serial No. 628,715, published June 16, 1953.

CLASS 44

Atomizers. Lambert Pharmacal Company. 306,178, renewed Sept. 12, 1953. O. G. Sept. 15.
Instrument for removing foreign particles from the eye. S. S. Miller. 579,938, Sept. 15; Serial No. 619,842, published June 23, 1953.
Prophylactic rubber articles. National Hygienic Products Corp. 580,035, Sept. 15; Serial No. 638,595, published June 16, 1953.
Receptacles for holding and shaking down clinical thermometers. H. R. Hustad. 580,127, Sept. 15; Serial No. 626,571.
Surgical dressings of gauze and cotton and wool, adhesive plasters, etc. Johnson & Johnson. 92,678, re-renewed July 22, 1953. O. G. Sept. 15.

CLASS 46

Apples, Fresh. J. Hilliard. 580,075, Sept. 15; Serial No. 642,639, published June 23, 1953.
Bread. Worcester Baking Company. 93,484, re-renewed Sept. 16, 1953. O. G. Sept. 15.
Breads, rolls, pastries, etc. Vega Baking Company Incorporated. 579,914–15, Sept. 15; Serial Nos. 604,939–40, published June 23, 1953.
Candies, cookies, and pastries. Zion Industries, Inc. 580,102, Sept. 15; Serial No. 570,346.
Candy. Almo Candy Co. 579,921, Sept. 15; Serial No. 611,874, published June 23, 1953.
Candy. McAfee Candy Co., Inc. 580,054, Sept. 15; Serial No. 640,405, published June 23, 1953.
Canned fruits and vegetables. Salter Canning Company. 580,033, Sept. 15; Serial No. 638,162, published June 2, 1953.
Canned Vienna sausage, pressed ham, and pork luncheon meat. Dubuque Packing Company. 580,138, Sept. 15; Serial No. 632,079.
Chewing gum. Wm. Wrigley, Jr., Company. 304,150, renewed June 20, 1953. O. G. Sept. 15.
Chewing gum, Ammoniated. Kathryn, Inc. 579,897, Sept. 15; Serial No. 582,436, published June 16, 1953.
Coffee and tea. Thomas J. Webb Company. 579,898, Sept. 15; Serial No. 582,808, published June 23, 1953.
Coffee, Bourbon Santos. J. Blyth. 92,784, re-renewed July 29, 1953. O. G. Sept. 15.
Coffee, canned vegetables, canned fruits, etc. Chitty & Co. 309,855, Feb. 6, 1934. Republished Sept. 15.
Confectioners' paste to be used in making candies. White-Stokes Company, Incorporated. 306,866, renewed Oct. 3, 1953. O. G. Sept. 15.
Corn chips. Food Display Machine Corporation. 308,143, renewed Nov. 21, 1953. O. G. Sept. 15.
Crackers, Salted. The Maryland Biscuit Company. 580,101, Sept. 15; Serial No. 525,910.
Cranberries. American Cranberry Exchange. 114,671, Jan. 2, 1917. Amended. O. G. Sept. 15.
Cranberries, Fresh. American Cranberry Exchange. 521,297, Feb. 21, 1950. Amended. O. G. Sept. 15.
Cream, Fluffed. Top Wip Company. 580,121, Sept. 15; Serial No. 621,759.
Dessert, Vegetable fat frozen. Pevely Dairy Company. 580,032, Sept. 15; Serial No. 638,094, published June 16, 1953.
Feeds, Dairy, cattle, stock, swine, pigeon, and horse; calf meal; poultry scratch feeds, etc. Northern Milling Company. 579,968, Sept. 15; Serial No. 627,767, published June 23, 1953.
Filling for marshmallow goods, meringues, macaroons, etc. H. H. Ottens. 37,897, Mar. 4, 1902. Republished Sept. 15.
Flour, Natural grain, cereal breakfast food, and bread. The Cera-Lac Company. 303,962, renewed June 13, 1953. O. G. Sept. 15.
Flour, Wheat. B. A. Eckhart Milling Co. 579,892, Sept. 15; Serial No. 546,979, published Oct. 25, 1949.
Food flavorings, Imitation. American Laboratories Incorporated. 437,699, Mar. 30, 1948. Republished Sept. 15.
Fruits, Fresh deciduous. Arrow Packing Co. 226,104–5, Mar. 29, 1927. Republished Sept. 15.

Grapes, cherries, peaches, etc., Fresh. Anthony A. Bianco, Inc. 579,935, Sept. 15; Serial No. 619,290, published June 23, 1953.
Grapes, Fresh. Jasmine Vineyards. 580,079, Sept. 15; Serial No. 643,962, published June 23, 1953.
Icing, dressing for salad, fruits, etc. White-Stokes Company, Incorporated. 92,608, re-renewed July 15, 1953. O. G. Sept. 15.
Icing-powder. H. H. Ottens. 38,075, Apr. 8, 1902. Republished Sept. 15.
Olives, Spiced. J. Ossola Co. Inc. 579,996, Sept. 15; Serial No. 633,694, published June 16, 1953.
Onions, Fresh. S. K. Hardy. 580,020, Sept. 15; Serial No. 635,766, published June 9, 1953.
Oysters, Fresh. The Great Atlantic and Pacific Tea Company. 580,052, Sept. 15; Serial No. 639,991, published June 16, 1953.
Poultry, Dressed. Pelahatchie Poultry Company. 580,027, Sept. 15; Serial No. 636,602, published June 9, 1953.
Poultry, Dressed. Pelahatchie Poultry Company. 580,028, Sept. 15; Serial No. 636,603, published June 23, 1953.
Puddings and malted milk desserts. Mama Cookie Bakeries, Inc. 306,199, renewed Nov. 21, 1953. O. G. Sept. 15.
Salad dressing, vinegar, canned vegetables, etc. Leadway Stores Corporation. 303,133, May 9, 1933. Republished Sept. 15.
Seasoning composition. The Griffith Laboratories, Inc. 579,929, Sept. 15; Serial No. 613,814, published June 9, 1953.
Shortening, Vegetable oil. Anderson, Clayton & Co. 580,062, Sept. 15; Serial No. 640,997, published June 23, 1953.
Sugar. American Crystal Sugar Company. 579,907–9, Sept. 15; Serial Nos. 597,647–9, published June 23, 1953.
Vegetables, Fresh, and melons. Recker-Best Company. 308,133, renewed Nov. 21, 1953. O. G. Sept. 15.
Wieners. J. M. Schneider, Limited. 579,918, Sept. 15; Serial No. 609,004, published Dec. 2, 1952.

CLASS 49

Gin and other potable distilled liquors. Standard Brands Incorporated. 308,439, renewed Dec. 5, 1953. O. G. Sept. 15.
Whisky, Scotch. The Kinloch Distillery Company Limited. 580,144, Sept. 15; Serial No. 634,067.

CLASS 50

Felt in the piece. American Felt Company. 94,413, re-renewed Dec. 9, 1953. O. G. Sept. 15.

CLASS 51

Chemical or medical preparation, Liquid. Lambert Pharmacal Company. 41,413, re-renewed Nov. 3, 1953. O. G. Sept. 15.
Dentifrice. The Lambert Company. 580,043, Sept. 15; Serial No. 639,180, published June 23, 1953.
Face creams, face powders, body powders, etc. Hindu Products Mfg. Corp. 579,940, Sept. 15; Serial No. 619,999, published June 23, 1953.
Face powder, liquid face powder, rouge, etc. Lesquendieu, Incorporated. 308,492, renewed Dec. 5, 1953. O. G. Sept. 15.
Hair bleaching powder. A. Kemp. 579,917, Sept. 15; Serial No. 606,708, published June 9, 1953.
Hair coloring products. Sales Affiliates, Inc. 580,135, Sept. 15; Serial No. 631,124.
Hair conditioning preparation. P. Golden. 580,047, Sept. 15; Serial No. 639,366, published June 23, 1953.
Hardening powder, mortuary powder, drying powder, etc. A. J. Hettel. 317,830, Oct. 9, 1934. Republished Sept. 15.
Lotion, Sunscreen-suntan. L. S. Whitaker, Jr. 580,136, Sept. 15; Serial No. 631,387.
Perfume. Otis Clapp Son, Inc. 580,050, Sept. 15; Serial No. 639,808, published June 23, 1953.
Perfumery. Haarmann-De Laire-Schaefer Co. 41,631, re-renewed Dec. 8, 1953. O. G. Sept. 15.
Perfumery and flavoring products. Haarmann-De Laire-Schaefer Co. 41,630, re-renewed Dec. 8, 1953. O. G. Sept. 15.
Perfumes, perfume essences, toilet water, etc. S. A. Myrurgia. 261,353, Sept. 17, 1929. Republished Sept. 15.
Sachets, bath salts, lipsticks, etc. Firmenich & Co. 399,250, Dec. 22, 1942. Republished Sept. 15.
Soaps and shaving cream. Firmenich & Co. 399,249, Dec. 22, 1942. Republished Sept. 15.

CLASS 52

Caustic soda, chlorinated lime, epsom salt, etc. The Drackett Chemical Company. 303,123, renewed May 9, 1953. O. G. Sept. 15.
Chemical compound for use as a detergent, Soluble. The Electric Smelting and Aluminum Company. 92,659, re-renewed July 22, 1953. O. G. Sept. 15.
Chemical liquid paint remover. Chasco, Inc. 579,925, Sept. 15; Serial No. 618,049, published June 23, 1953.
Cleaning preparation, Dry. The Cities Service Oil Company. 306,553, renewed Sept. 26, 1953. O. G. Sept. 15.
Composition in the nature of a solvent. Lino Paste Co. 580,071, Sept. 15; Serial No. 641,387, published June 23, 1953.
Crystals for cleaning and removing foreign matter from dental tools, Soluble. A. J. Arena. 580,104, Sept. 15; Serial No. 585,738.
Soap. The Brown Soap Co. 65,194, Sept. 10, 1907, Republished Sept. 15.
Soap. The Globe Soap Company. 90,635, re-renewed Mar. 11, 1953. O. G. Sept. 15.
Soaps The Baker Castor Oil Company. 579,947, Sept. 15; Serial No. 621,445, published June 23, 1953.
Soaps and shaving cream. Firmenich & Co. 399,249, Dec. 22, 1942. Republished Sept. 15.
Soaps, Toilet. F. G. Burke. 94,424, re-renewed Dec. 9, 1953. O. G. Sept. 15.
Varnishes, paint enamels, lacquers, etc. Pratt & Lambert, Inc. 272,870, July 15, 1930. Republished Sept. 15.

CLASS 100

Catering service, Food and drink. V. J. Jeep. 580,081, Sept. 15; Serial No. 527,562, published June 16, 1953.
Catering services. L. Vaudable. 580,091, Sept. 15; Serial No. 626,767, published June 23, 1953.
Drive-in restaurant service. K. E. Bemis, Jr. 580,096, Sept. 15; Serial No. 635,949, published June 23, 1953.
Research and community service. American Heart Association, Inc. 580,093, Sept. 15; Serial No. 628,838, published June 23, 1953.
Services rendered by the member chapters and members for male college students. Chi Psi Fraternity. 580,083, Sept. 15; Serial No. 561,802, published June 16, 1953.
Towel supply service. Industrial Garment Service, Inc. 580,095, Sept. 15; Serial No. 634,901, published June 23, 1953.

CLASS 101

Advertising the goods of others. Philadelphia Children's Wear Show, Inc. 580,086, Sept. 15; Serial No. 599,430, published June 16, 1953.
Management counseling to the bakery industry. Bakers Associates Incorporated. 580,092, Sept. 15; Serial No. 627,313, published June 23, 1953.

CLASS 102

Estate planning services. Acacia Mutual Life Insurance Company. 580,097, Sept. 15; Serial No. 636,189, published June 23, 1953.

CLASS 103

Automotive vehicle inspection, lubrication, repair, etc. Pate Oil Company. 580,082, Sept. 15; Serial No. 535,601, published June 16, 1953.
Cleaning carpets, rugs and upholstered furniture. L. C. Schrack. 580,085, Sept. 15; Serial No. 598,606, published June 23, 1953.
Gasoline filling station services. F. C. Lind. 580,094, Sept. 15; Serial No. 630,421, published June 23, 1953.

CLASS 105

Renting vehicles. Chicago and Suburban Livery Association. 580,100, Sept. 15; Serial No. 582,164, published June 23, 1953.
Storage and packing of household goods and for the transportation of household goods. Allied Van Lines, Inc. 580,098, Sept. 15; Serial No. 638,624, published June 16, 1953.

CLASS 106

Dyeing and printing piece goods. The Kenyon Piece Dyeworks, Inc. 580,140, Sept. 15; Serial No. 632,990.
Finishing of textile fabrics to render them crease resistant. Ramapo Piece Dye Works, Inc. 580,084, Sept. 15; Serial No. 597,166, published June 23, 1953.
Manufacturing on a custom basis gages, jigs, fixtures, etc. Atlantic Machine Tool Works, Inc. 580,088, Sept. 15; Serial No. 620,186, published June 16, 1953.
Treating fabrics. Associated Dye & Print Co., Inc. 580,090, Sept. 15; Serial No. 624,008, published June 23, 1953.
Treating textile fabrics. Associated Dye & Print Co., Inc. 580,089, Sept. 15; Serial No. 624,007, published June 23, 1953.

CLASS 107

Producing and directing musical and dramatic presentations. St. J. Terrell. 580,087, Sept. 15; Serial No. 605,500, published June 23, 1953.

LIST OF DESIGN PATENTEES

Adler, Samuel E., assignor to Admiral Corporation, Chicago, Ill. Television cabinet control panel. 170,394, Sept. 15.

Admiral Corporation, assignee: *See*—
Adler, Samuel E.

Belber, E. Malcolm: *See*—
Brier, Jack, Belber, Kolson, and Walter.

Belber Trunk & Bag Company, assignee: *See*—
Brier, Jack, Belber, Kolson, and Walter.

Bourns, Marlan E., Riverside, Calif. Potentiometer. 170,396, Sept. 15.

Brav, Milton, Chicago, Ill. Cap for tube or similar article. 170,395, Sept. 15.

Breuer Electric Manufacturing Company, assignee: *See*—
Cinelli, John J.

Brier, Jack, Merion, Pa., E. M. Belber, Smyrna, Del., M. Kolson, Havertown, Pa., and J. H. Walter, Grosse Pointe, Mich., assignors to Belber Trunk & Bag Company, Philadelphia, Pa. Article of luggage. 170,397, Sept. 15.

Briers, Mary, Houston, Tex. Cap. 170,398, Sept. 15.

Briers, Mary, Houston, Tex. Cap. 170,399, Sept. 15.

Candlin, James E., Jr., Hammond, Ind., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Railway car body. 170,400, Sept. 15.

Cinelli, John J., assignor to Breuer Electric Manufacturing Company, Chicago, Ill. Combined motor, blower, and cover for a vacuum cleaner housing. 170,401, Sept. 15.

David, Barnett, Brooklyn, N. Y. Child's handbag. 170,402, Sept. 15.

De Saint-Germain, Georges, Long Beach, Calif. Bracelet or similar article. 170,403, Sept. 15.

Eligman, George J.: *See*—
Fisher, Max, and Eligman.

Elliott, Clarence E., Kansas City, Kans. Hand-operated food mixer. 170,404, Sept. 15.

Even-Pul Foundations, Inc., assignee: *See*—
Lo Cascio, Jack J.

Fisher, Max, Lower Alsace Township, Berks County, Pa. Stocking. 170,405, Sept. 15.

Fisher, Max, Lower Alsace Township, Berks County, Pa. Stocking. 170,406, Sept. 15.

Fisher, Max, Lower Alsace Township, Berks County, and G. J. Eligman, Mount Penn, Pa. Stocking. 170,407, Sept. 15.

Glassenhart, Alfons: *See*—
Stolz, William J., and Glassenhart.

Gries, Otto, New Rochelle, N. Y. Hexagon capped nut. 170,408, Sept. 15.

Hare, John E., Niagara Falls, N. Y. Drinking cup. 170,409, Sept. 15.

Horwitch, Philip R., assignor to Paramount Manufacturing Company, Leominster, Mass. Combined letter opener and pencil. 170,410, Sept. 15.

Ischinger, Eric, Sr., Reading, Pa. Hand dispensing device for small elements. 170,411, Sept. 15.

Ischinger, Eric, Sr., Reading, Pa. Hand dispensing device for small elements. 170,412, Sept. 15.

Ischinger, Eric, Sr., Reading, Pa. Hand dispensing device for small elements. 170,413, Sept. 15.

Ischinger, Eric, Sr., Reading, Pa. Hand dispensing device for small elements. 170,414, Sept. 15.

Jaderborg, Thure, Jr., Lindsborg, Kans. Shoehorn or the like. 170,415, Sept. 15.

Kairalla, Eleanor, New York, N. Y. Child's sundress. 170,416, Sept. 15.

Kawneer Company, The, assignee: *See*—
Walthall, Esmond.

Knapp, Russell D., Elko, Nev. Scabbard. 170,417, Sept. 15.

Kolson, Morton: *See*—
Brier, Jack, Belber, Kolson, and Walter.

Labe, Jacob, III, Philadelphia, assignor to Robertshaw-Fulton Controls Company, Greensburg, Pa. Instrument case or similar article. 170,418, Sept. 15.

Lo Cascio, Jack J., Bayonne, N. J., assignor to Even-Pul Foundations, Inc., New York, N. Y. Brassière. 170,419, Sept. 15.

Luhrs, Arthur, Miami, Fla. Coffee table. 170,420, Sept. 15.

Lyon, George A., Detroit, Mich. Wheel cover or similar article. 170,421, Sept. 15.

Lyon, George A., Detroit, Mich. Wheel cover or similar article. 170,422, Sept. 15.

Marano, Herbert W., Summit, N. J., assignor to Wilson-Jones Company, Chicago, Ill. Desk stapler or similar article. 170,423, Sept. 15.

Meetmaker, David M., Odessa, Mo. Milk can carrier 170,424, Sept. 15.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Reinecke, Jean O.

Monahan, Garry J., Jr., Bridgeport, Conn. Suction sink stopper. 170,425, Sept. 15.

Mullen, Helen M., Seattle, Wash. Combined bottle and applicator or similar article. 170,426, Sept. 15.

Paramount Manufacturing Company, assignee: *See*—
Horwitch, Philip R.

Peterson, George, Los Angeles, Calif. Toy train block puzzle. 170,427, Sept. 15.

Peterson, Wilber P., Kansas City, Mo. Caulking gun. 170,428, Sept. 15.

Pullman-Standard Car Manufacturing Company, assignee: *See*—
Candlin, James E., Jr.

Reinecke, Jean O., Chicago, Ill., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Tape dispenser. 170,429, Sept. 15.

Robertshaw-Fulton Controls Company, assignee: *See*—
Labe, Jacob.

Rudin, Leo, Passaic, N. J. Bib or similar article. 170,430, Sept. 15.

Steinhilber, J. Budd, assignee: *See*—
Viemeister, Read.

Stolz, William J., and A. Glassenhart, Phoenix, Ariz. Automobile air cooler. 170,431, Sept. 15.

Vie Design Studios, assignee: *See*—
Viemeister, Read.

Viemeister, Read, assignor to R. Viemeister and J. B. Steinhilber, copartners, doing business as Vie Design Studios, Yellow Springs, Ohio. Combined thermometer and holder for a scratch-pad or the like. 170,432, Sept. 15.

Wahren, Alma I., Carrington, N. Dak. Bottle rack. 170,433, Sept. 15.

Walter, John H.: *See*—
Brier, Jack, Belber, Kolson, and Walter.

Walthall, Esmond, San Marino, Calif., assignor to The Kawneer Company, Miles, Mich. Louver panel. 170,434, Sept. 15.

Weissman, Harry, New Hyde Park, N. Y. Spectacle front. 170,435, Sept. 15.

White, Leo L., Beverly Hills, Calif. Toy figure. 170,436, Sept. 15.

Wilson-Jones Company, assignee: *See*—
Marano, Herbert W.

Wood, Lorin A., Los Angeles, Calif. Crutch. 170,437, Sept. 15.

Ziskind, Samuel, New York, N. Y. Scouring pad holder. 170,438, Sept. 15.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 15TH DAY OF SEPTEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott, Roy W., Schenectady, N. Y., assignor to General Electric Company. Combustor and cooling means therefor. 2,651,912, Sept. 15.

Abendroth, Guss F.: *See*—
Arendt, Harry S., and Abendroth.

Able, Edward T., assignor to B. K. Sweeney Mfg. Co., Denver, Colo. Torque indicator for torque wrenches. 2,651,935, Sept. 15.

Acker, Ralph E., Fort Worth, Tex., assignor to Container Corporation of America, Chicago, Ill. Corner locking construction for paperboard containers. 2,652,185, Sept. 15.

Ackley, Raymond E., Evanston, assignor to W. F. Hall Printing Company, Chicago, Ill. Book and wrapper feed mechanism for wrapping machines. 2,651,899, Sept. 15.

Adelson, David E., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Lubricating composition. 2,652,367, Sept. 15.

Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Black, David G.
Olcott, Harold S., and Campbell.
Teeter, Howard M., and Cowan.

Air Control Products, Inc., assignee: *See*—
Leigh, Robert L.

Airtron, Inc., assignee: *See*—
Ingalls, David, and Anderson.

Alburger, James R., Los Angeles, Calif. Radio broadcast system. 2,652,536, Sept. 15.

Alder, Orin J., and F. Jacobs, Boise, Idaho. Baseball batting tee. 2,652,250, Sept. 15.

Alexander, Delbert S., Evanston, Ill. Automatic scoring apparatus for bowling games. 2,652,252, Sept. 15.

Alexander, Ronald R., assignor to Carthage Machine Company, Carthage, N. Y. Feeding mechanism for chippers. 2,652,077, Sept. 15.

Alexander, Russel C.: *See*—
Gumpertz, Donald G., and Alexander.

Alexander, William G., Baltimore, and C. M. Harden, assignors to Bendix Aviation Corporation, Towson, Md. Multichannel radio communication system. 2,652,453, Sept. 15.

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Phase balancing system. 2,652,529, Sept. 15.

Allen, David A., Mount Vernon, Ohio. Building block lift. 2,652,278, Sept. 15.

Allen, S. L., & Co., Inc., assignee: *See*—
Bonner, Edwin K., Jr., and Vozzi.

Allied Chemical & Dye Corporation, assignee: *See*—
Kise, Mearl A.
Shultz, Andrew, Jr.

Allis-Chalmers Manufacturing Company, assignee: *See*—
Weston, Donald E.

Allmanna Svenska Elektriska Aktiebolaget, assignee: *See*—
Gynt, Sven E., Poulsen, and Lundqvist.
Thielers, Gustav, and Sjökvist.

Aloisio, Joseph P.: *See*—
Nichols, Nathaniel B., and Aloisio.

Altenburger, Herman G., Montrose, Calif. Universally adaptable drill jig. 2,651,951, Sept. 15.

Alvarez, Alfonso, Jr., Upper Montclair, N. J. Adjustable door buck and trim. 2,651,813, Sept. 15.

American Cyanamid Company, assignee: *See*—
Carnes, Joseph J., and Booth.
Davis, John F.
Lecher, Hans Z., and Whitehouse.
Wallman, Harold.

American Hospital Supply Corporation, assignee: *See*—
Berner, Harry M.

American Machine and Metals, Inc., assignee: *See*—
Kagan, Benjamin S.

American Metal Company, Limited, The, assignee: *See*—
Sapp, Ancel L.

American Seating Company, assignee: *See*—
Nordmark, Walter E.

American Steel Foundries, assignee: *See*—
Clasen, Claus J. W.

American Viscose Corporation, assignee: *See*—
Conti, John D.
Mallinson, John H., and Geyer.

Anderson, John, S. Coldfield, and R. S. Goy, Castle Bromwich, Birmingham, England, assignors to Dunlop Tire and Rubber Corporation, Buffalo, N. Y. Making tennis balls. 2,652,094, Sept. 15.

Anderson, John W.: *See*—
Ingalls, David, and Anderson.

Anderson, Lloyd L., Grand Rapids, assignor to Jervis Corporation, Grandville, Mich. Latch mechanism. 2,652,227, Sept. 15.

Ansley, Charles H., Rochester, N. Y. Fruit pitting and halving machine. 2,652,085, Sept. 15.

Anthony, Myron L., and R. M. Virkus, La Grange, assignors to Motorola, Inc., Chicago, Ill. Electromechanical filter. 2,652,542, Sept. 15.

Anthony, Myron L., La Grange, and R. M. Virkus, Riverside, assignors to Motorola, Inc., Chicago, Ill. Electromechanical filter. 2,652,543, Sept. 15.

Arendt, Harry S., and G. F. Abendroth, Houston, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Method and apparatus for gravel packing wells. 2,652,117, Sept. 15.

Argabrite, George A., North Hollywood, assignor, by mesne assignments, to Pacific Transducer Corporation, Los Angeles, Calif. Alpha radiation detector. 2,652,499, Sept. 15.

Army, United States of America as represented by the Secretary of the, trustee, assignee: *See*—
Iversol, Harold, and Rogers.

Arnold, George B.: *See*—
Hess, Howard V., and Arnold.

Arnold, George B., Glenham, and H. V. Hess, Beacon, assignors to The Texas Company, New York, N. Y. Separating acenaphthene. 2,652,438, Sept. 15.

Arthur, Oscar F., Connellsville, assignor to Tri-State Engineering Company, Washington, Pa. Portable platform. 2,652,219, Sept. 15.

Aubert, Per, Oslo, Norway, and E. B. Knott, Harrow, England, assignors to Eastman Kodak Company, Rochester, N. Y. Sensitizing dyes containing a 2-acylamino-5 (4)-thiazolone nucleus. 2,652,397, Sept. 15.

Auger, Harold, Maidenhead, England. Power transmission mechanism in storage equipment. 2,652,162, Sept. 15.

Automatic Devices Corporation, assignee: *See*—
Johnson, Arthur A.

Automatic Electric Laboratories, Inc., assignee: *See*—
Griffins, Morris E.
Lomax, Clarence E.
Wicks, John.

Automatic Telephone & Electric Company Limited, assignee: *See*—
Davison, Alan.

Avco Manufacturing Corporation, assignee: *See*—
Bussard, Emmery J. H.
Maher, Richard A., and Pfitzer

Avedikian, Souren Z., Larchmont, N. Y. Composition of matter with plastic bonding and making from cresol-formaldehyde, comminuted wood, and sodium silicate. 2,652,373, Sept. 15.

Aylor, Eugene W., Brightwood, Va. Chicken coop. 2,651,815, Sept. 15.

B. B. Chemical Co., assignee: *See*—
Griswold, Stanley M., and Reynolds.

Bacchli, George, New Philadelphia, Ohio, assignor to Joy Manufacturing Company, Pittsburgh, Pa. Web roll winder. 2,652,206, Sept. 15.

Baehr, Sylvester C., Cheektowaga, and A. D. Roubloff, Kenmore, assignors to Wiesner-Rapp Company, Inc., Buffalo, N. Y. Feeder. 2,652,139, Sept. 15.

Bailey Meter Company, assignee: *See*—
Hornfeck, Anthony J.
McEvoy, James E.

Baillot, Ernest: *See*—
Baillot, Georges, and E. Baillot.

Baillot, Georges, deceased, late of Embourg, near Liege, Belgium, by H. Baillot, Liege, and G. Baillot, Embourg, near Liege, sole heirs, and E. Baillot, Liege, Belgium. Compound steam locomotive. 2,652,034, Sept. 14.

Baillot, Germaine, heir: *See*—
Baillot, Georges, and E. Baillot.

Baillot, Helene, heir: *See*—
Baillot, Georges, and E. Baillot.

Baker, Rollo C., Jr.: *See*—
Smeltzer, Raymond F., Edwards, Baker, and Burton.

Balaban, Philip, Detroit, Mich. Multipurpose tape dispensing device. 2,652,205, Sept. 15.

Ballard, Seaver A.: *See*—
Finch, Harry de V., and Ballard.

Ballenger, James M., Millington, N. J., assignor to Standard Oil Development Company. Fractionation and distillation tray structure. 2,652,239, Sept. 15.

Banks, Leon D., Alpine, N. Y. Poultry watering device. 2,652,028, Sept. 15.

Barch, William E., Bronx, assignor to Standard Brands Incorporated, New York, N. Y. Composition for coloring margarine. 2,652,334, Sept. 15.

Barnes, Freda A., assignee: *See*—
Barnes, William B.

Barnes, William B., assignor, by mesne assignments, of three-fourths to himself and one-fourth to F. A. Barnes, Muncie, Ind. Automatic transmission. 2,651,949, Sept. 15.

Baron, Charlotte M., Toledo, Ohio. Colostomy device. 2,652,055, Sept. 15.

Baruch, Alan P.: *See*—
Porter, Ralph E., and Baruch.

Basdekis, Costas H., Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Polymeric compositions. 2,652,381, Sept. 15.

Batcheller, Hugh W., Newton, Mass. Push button. 2,652,470, Sept. 15.

Battelle Development Corporation, The, assignee: *See*—
Simmons, Orien W.

Batten, Percy H., trustee, assignee: *See*—
Boestad, Gustav K. W., and Lindhagen.

Batten, Percy H., assignor to Twin Disc Clutch Company, Racine, Wis. Rotary hydraulic coupling and mechanical brake means. 2,651,916, Sept. 15.

Bauer, Benjamin B., Oak Park, assignor to Shure Brothers, Incorporated, Chicago, Ill. Improved phonograph pick-up apparatus. 2,652,260, Sept. 15.

Bauman, William C., and E. L. McMaster, assignors to The Dow Chemical Company, Midland, Mich. Making chloromethyl methyl ether. 2,652,432, Sept. 15.

Bayer, Philip, Delaware, Ohio. Hydraulic engine. 2,652,035, Sept. 15.

Beatty Bros. Limited, assignee: *See*—
Beatty, William G.

Beatty, John L., Milwaukee, Wis. Hand shield. 2,651,776, Sept. 15.

Beatty, William G., assignor to Beatty Bros. Limited, Fergus, Ontario, Canada. Demountable animal pen assembly. 2,652,025, Sept. 15.

Bekker, Mieczyslaw G., Hudson County, N. J. Tracked gear with cushioned lubricated leakproof skid suspension. 2,652,289, Sept. 15.

Bekker, Mieczyslaw G., Washington, D. C. Mobile support. 2,652,290, Sept. 15.

Bell & Howell Company, assignee: *See*—
Johnson, Elmer L.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Bond, Walter L., Sparks, and Teal.
Cutler, Cassius C.
Dietrich, Anselm F.
Graham, Robert E.
Harasim, Stanley J.
Hollenberg, Arthur V.
Kernahan, John J. J.
Kock, Winston E.
Mallina, Rudolph F., and Melick.
Wallace, Robert L., Jr.

Bemis Bro. Bag Company, assignee: *See*—
Weeks, Norman E.

Benander, George B., Oaklawn, R. I., assignor, by mesne assignments, to General Electric Company. Electric portable lamp and lamp socket assembly. 2,652,485, Sept. 15.

Benander, George B., Oaklawn, R. I., assignor to General Electric Company. Threaded nozzle clip for lamp sockets. 2,652,548, Sept. 15.

Bendix Aviation Corporation, assignee: *See*—
Alexander, William G., and Harden.
Crosby, Edward L., Jr.
Miller, John M., Jr.
Price, Harold W.
Smeltzer, Raymond F., Edwards, Baker, and Burton.
Stull, Keefer S., Jr.
Windsor, Walter E., and Koll.
Winkler, Albert H.

Benedict, Manson, Westfield, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y. Separation of mixed gases by absorption. 2,652,129, Sept. 15.

Bennett, Howard B.: *See*—
von Hoorn, Fred G., and Bennett.

Bent, Richard L.: *See*—
Weissberger, Arnold, Thirtle, and Bent.

Bentley, James S., assignor to Telefiex Products Limited, London, England. Mechanism for the opening and closing of windows, louvers, or the like. 2,652,245, Sept. 15.

Beren, Irvin B.: *See*—
Jenkins, Jack, and Beren.

Berg, Arne L.: *See*—
Dale, Colin B., Berg, and Wagner.

Bergeim, Frank H.: *See*—
Lott, William A., and Bergeim.

Berger, Jacques, assignor to Welding Research, Inc., Chicago, Ill. Predetermine system, including devices providing continuous operation without homing or resetting. 2,652,197, Sept. 15.

Bergh, Charles J., Vandalia, assignor to The Dayton Pump & Manufactring Company, Dayton, Ohio. Centrifugal pump. 2,651,998, Sept. 15.

Berner, Harry M., Chicago, assignor to American Hospital Supply Corporation, Evanston, Ill. Vertically adjustable segmental bed. 2,651,785, Sept. 15.

Berzof, Harold, and F. A. Rogers, Edgewood, Md., assignors to the United States of America as represented by the Secretary of the Army, as trustee. Delay arming fuse. 2,651,993, Sept. 15.

Bihaly, Lajos, assignor to Industrial Accountancy Partnership Limited, London, England. Interlining for the manufacture of chemically stiffened articles of wearing apparel. 2,652,349, Sept. 15.

Billings, Roy O., Milwaukee, Wis. Grapple. 2,652,280, Sept. 15.

Birdsboro Steel Foundry and Machine Company, assignee: *See*—
Peterson, Edward T.

Bischoff, Alfred F., Ballston Spa, N. Y., assignor to General Electric Company. Radiation beam pattern recorder. 2,651,963, Sept. 15.

Bishop, Clifford B., Oakland, assignor to Cutter Laboratories, Berkeley, Calif. Intravenous solution flask provided with a snap-up ball. 2,652,054, Sept. 15.

Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Vented explosion-proof lighting unit. 2,652,482, Sept. 15.

Black, David G., Pataskala, Ohio, assignor, by mesne assignments, to the United States of America as represented by the Secretary of Agriculture. Cotton turbo-cleaner process. 2,651,812, Sept. 15.

Blackburn, Charles W., Bartlesville, Okla., assignor to Phillips Petroleum Company. Switch for automatic pumping units. 2,651,995, Sept. 15.

Bialzot, Pierre, assignor to Institut de Recherches pour les Huiles de Palme et Oleagineux, Paris, France. Obtaining carotene from palm oil. 2,652,433, Sept. 15.

Blue Ridge Textile Company, Inc., assignee: *See*—
Brown, Clarence J., and Schwanda.

Bocci, Adelchi, Florence, Italy. Steering gear for trailers. 2,652,124, Sept. 15.

Boestad, Gustav K. W., Lidingo, and T. I. Lindhagen, Stockholm, Sweden, assignors, by mesne assignments, to J. C. Marble, New York, N. Y., L. M. Merrill, Westfield, N. J., and P. H. Batten, Racine, Wis., trustees. Turbine. 2,652,227, Sept. 15.

Boller, Henry A., Pontiac, Mich., assignor to Carter Carburetor Corporation, St. Louis, Mo. Two fuel carburetor. 2,652,237, Sept. 15.

Bollinger, Loren C.: *See*—
Woods, Harold A., and Bollinger.

Bonanno, Joseph L., Madison, N. J., assignor to The Lionel Corporation, New York, N. Y. Variable voltage transformer. 2,652,500, Sept. 15.

Bond, Donald C., Crystal Lake, and R. H. Lorenz, Elmhurst, assignors to The Pure Oil Company, Chicago, Ill. Acidizing siliceous earth formations. 2,652,366, Sept. 15.

Bond, Walter L., New Providence, and M. Sparks and G. K. Teal, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Semiconductor translating device. 2,651,831, Sept. 15.

Bonner, Edwin K., Jr., Torresdale, and J. J. Vozzi, assignors to S. L. Allen & Co., Inc., Philadelphia, Pa. Mowing machine having vibration neutralizing means. 2,651,906, Sept. 15.

Booth, James H., Corunna, and E. C. Warner, Detroit, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio. Steering knuckle. 2,652,264, Sept. 15.

Booth, James H., Venice Township, Shiawassee County, and A. W. Gair, Fraser, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio. Steering knuckle. 2,652,265, Sept. 15.

Booth, William T., Jr.: *See*—
Carnes, Joseph J., and Booth.

Borsum, Adolph W., U. S. Navy, and W. W. Brockway, West Los Angeles, Calif. Communication system. 2,652,556, Sept. 15.

Boston Machine Works Company, assignee: *See*—
Osgood, Walter P.

Bosworth, Phillips N., Becket, Mass., assignor to General Electric Company. Stuffing gland assembly for fluid filled cables. 2,652,443, Sept. 15.

Bourassa, Alphonsine B., assignee: *See*—
Bourassa, Joseph W.

Bourassa, Joseph W., Greene, Maine, assignor, by mesne assignments, to himself and A. B. Bourassa. Bobbin. 2,652,213, Sept. 15.

Bowditch, Hoel L., assignor to The Foxboro Company, Foxboro, Mass. Pneumatic modulating relay. 2,652,066, Sept. 15.

Boy, Ralph E., Jr.: *See*—
Schulken, Roger M., Jr., and Boy.

Bradford, Arthur J., Chicago, Ill. Continuous loop film projection apparatus. 2,651,966, Sept. 15.

Braley, James H., Sacramento, Calif. Tire shaping machine. 2,651,893, Sept. 15.

Briggs, John R.: *See*—
Sayko, Andrew F., and Briggs.

Briggs Manufacturing Company, assignee: *See*—
Vigmostad, Trygve.

British Thomson-Houston Company Limited, The, assignee: *See*—
Melville, William S., and Jackson.

Brockman, Ray E., Chicago, Ill., assignor to Frabill Manufacturing Company, Milwaukee, Wis. Ice fishing tip-up. 2,651,875, Sept. 15.

Brockway, Wilhelm W.: *See*—
Borsum, Adolph W., and Brockway.

Brooker, Leslie G. S.: *See*—
Keyes, Grafton H., and Brooker.

Brown, Clarence J., and T. F. Schwanda, assignors to Blue Ridge Textile Company, Inc., Bangor, Pa. Warp knitting machine tensioning device. 2,651,930, Sept. 15.

Browne, James H., Lisbon, Ohio. Pickup brushes for sweepers. 2,651,803, Sept. 15.

Browning, Richard L., Euclid, assignor to Victor R. Browning & Company, Incorporated, Willoughby, Ohio. Brake mechanism. 2,652,132, Sept. 15.

Browning, Victor R., & Company, Incorporated, assignee: *See*—
Browning, Richard L.

Brukner, Clayton J., Troy, Ohio, assignor to The Waco Aircraft Company. Aircraft landing gear. 2,652,215, Sept. 15.

Bruns, Herbert F., assignor, by mesne assignments, to Ditto, Incorporated, Chicago, Ill. Stack support for sheet feeders. 2,652,249, Sept. 15.

Brunswick-Balke-Collender Company, The, assignee: *See*—
Montooth, George A.

Brusienski, Paul E., Ramona, Calif. Hand pressure released container opening. 2,652,169, Sept. 15.

Bryan, John W., Traphill, N. C. Crossed leg folding table or tray. 2,652,299, Sept. 15.

Buc, Saul R., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Preparing m-nitro and m-amino-benzyl derivatives of α-mono- and α,α'-diketo-pyrrolidines and -piperidines and tetrahydrophthalimides. 2,652,403, Sept. 15.

Buchholz, Georgia R., San Francisco, Calif. Sleeping garment for infants. 2,651,781, Sept. 15.

Büchi, Alfred, Winterthur, Switzerland. Rotor for compressing machines such as centrifugal blowers and pumps. 2,652,191, Sept. 15.

Bucyrus-Erie Company, assignee: *See*—
Mork, George W.

Burdick, John S., North Muskegon, assignor to The Shaw-Walker Company, Muskegon, Mich. Armrest and brace for composite metal and wood chairs. 2,652,102, Sept. 15.

Burnett, Alexander H., Chicago, and J. J. Prohaska, La Grange, assignors to Swift & Company, Chicago, Ill. Sausage link forming machine. 2,651,808, Sept. 15.

Burrows, Arthur T. C., assignor to Geo. W. King Limited, Hitchin, England. Sliding door. 2,651,816, Sept. 15.

Burton, Frank L., assignor to The Gates Rubber Company, Denver, Colo. Making reinforced rubber hose. 2,652,093, Sept. 15.

Burton, Samuel D.: *See*—
Smeltzer, Raymond F., Edwards, Baker, and Burton.

Bussard, Emmery J. H., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Constant band width coupling circuit for television receiver tuners. 2,652,487, Sept. 15.

Buttner, Carl M., assignor to Hunter Fan and Ventilating Company, Memphis, Tenn. Air-moving device. 2,651,987, Sept. 15.

Bye, Norman C., Wynnmoore, assignor to Henry Disston and Sons, Inc., Philadelphia, Pa. Cutting saw chain. 2,652,076, Sept. 15.

C. U. R. A. Patents Limited, assignee: *See*—
Dryden, Ian G. C., and McKee.
McKee, James H.

Cabot, Godfrey L., Inc., assignee: *See*—
Loving, William L.

Cahill, John J., assignor to Mutual Machine Company, New York, N. Y. Lamp shade seam sealing machine. 2,652,095, Sept. 15.

Caldwell, John R., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Mixtures comprising acrylonitrile polymers and vinyl acetate-fumaric amide interpolymers. 2,652,378, Sept. 15.

Calgon, Incorporated, assignee: *See*—
Thompson, Ralph N.

Calhoun, Paul W., Gainesville, Fla. Camera support. 2,651,981, Sept. 15.

California Research Corporation, assignee: *See*—
Ferguson, Cedric K.
Schaufelberger, William M., Herrick, and Leggett.
Stayner, Richard D.

Cameron, Robert R.: *See*—
Gordon, Carroll G., and Cameron.

Campbell, Tod W.: *See*—
Olcott, Harold S., and Campbell.

Cantu, Rudolph, Lyford, Tex. Wire bending and coiling tool. 2,652,074, Sept. 15.

Carnes, Joseph J., Greenwich, and W. T. Booth, Jr., Springdale, Conn., assignors to American Cyanamid Company, New York, N. Y. Antistatic treatment of shaped articles comprising a vinyl resin and treated articles. 2,652,348, Sept. 15.

Carpenter, Arley D., Los Angeles, and J. A. Carpenter, North Hollywood, Calif. Spring clamp. 2,651,826, Sept. 15.

Carpenter, John A.: *See*—
Carpenter, Arley D. and J. A.

Carpenter, Vera W., Grand Junction, Colo. Sanitary belt. 2,652,058, Sept. 15.

Carrier Corporation, assignee: *See*—
Merrick, Richard H.

Carroll, Burt H., assignor to Eastman Kodak Company, Rochester, N. Y. Supersensitization of photographic emulsions with complex merocyanine dyes. 2,652,330, Sept. 15.

Carter Carburetor Corporation, assignee: *See*—
Boller, Henry A.

Carthage Machine Company, assignee: *See*—
Alexander, Ronald R.

Cary, Beecher B., assignor to Hayes Industries, Inc., Jackson, Mich. Retroverted passage type muffler with expansion chambers. 2,652,128, Sept. 15.

Caryl, Leslie, Creations, assignee: *See*—
Fox, Asher J.

Causey, George W., Pittsburgh, Pa. Antislip decking. 2,651,978, Sept. 15.

Celanese Corporation of America, assignee: *See*—
Porzer, Ralph E., and Baruch.

Chadwick, Richard, King's, Norton, Birmingham, and J. F. Hobbs, Birmingham, England, assignors to Imperial Chemical Industries Limited. Continuous or semicontinuous casting of metals. 2,651,821, Sept. 15.

Chattler, Leo M., Washington, D. C. Pump and motor hydraulic system, including reversing and automatic by-pass valve units. 2,651,915, Sept. 15.

Chesler, Abraham E., Woodmere, N. Y. Door lock. 2,651,934, Sept. 15.

Chicago Nipple Manufacturing Company, assignee: *See*—
Maraden, George B.

Chilton, Roland, Ridgewood, N. J., assignor to Curtiss-Wright Corporation. Compound-lead screw compressor or fluid motor. 2,652,192, Sept. 15.

Christenson, Gust J., Park Ridge, assignor to Standard Car Truck Company, Chicago, Ill. Spring package. 2,652,244, Sept. 15.

Christner, Robert M., Pittsburgh, Pa. Universal connection for electric service cords. 2,652,546, Sept. 15.

Claesson, Per H. E.: *See*—
Vigren, Sten D., Claesson, and Zander.

Clasen, Claus J. W., assignor to American Steel Foundries, Chicago, Ill. Snubbed truck. 2,652,002, Sept. 15.

Clauss, Herman E., Affton, Mo. Adjustable jaw for clamping fixtures on workbenches. 2,652,080, Sept. 15.

Clayton, Benjamin, assignee: *See*—
Mattikow, Morris.

Cleveland, Allen E., Detroit, Mich., assignor to Perfection Stove Company, Cleveland, Ohio. Electrical control means for liquid fuel burning apparatus. 2,652,106, Sept. 15.

Cleveland Twist Drill Company, The, assignee: *See*—
Emmons, Joseph V.

Climax Molybdenum Company, assignee: *See*—
Leavenworth, Edgar K.

Clinton, Raymond O., Rensselaer, assignor to Sterling Drug Inc., New York, N. Y. Tertiary-aminoalkyl derivatives of coumarilic acids and their preparation. 2,652,399, Sept. 15.

Coan, Martin: *See*—
Herslg, Leonard A., and Coan.

Cole, Mark H., Downers Grove, Ill., assignor to The Safety Crank Company. Engine cranking device. 2,652,045, Sept. 15.

Cole, Nathaniel S.: *See*—
Wilcox, Isaac L., and Cole.

Cole, William A., Detroit, Mich. Hook lock. 2,652,276, Sept. 15.

Collins Radio Company, assignee: *See*—
Shanklin, John P.

Columbus Plastic Products, Inc., assignee: *See*—
Roop, Nathan W.

Communication Engineering Pty. Limited, assignee: *See*—
Skillman, Thomas S., and Law.

Communication Measurements Laboratory, assignee: *See*—
Griffin, Dana A.

Comstock, George E., 3d, Holden, assignor to Norton Company, Worcester, Mass. Snagging grinder. 2,651,888, Sept. 15.

Comstock & Wescott, Inc., assignee: *See*—
Weaver, Eastman A.

Conary, Robert E., and R. F. McCleary, Beacon, assignors to The Texas Company, New York, N. Y. Alkylation of thianaphthene. 2,652,405, Sept. 15.

Condax, Louis M., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic color reproduction process. 2,652,327, Sept. 15.

Cone, Richard R., assignor to Threads Incorporated, Gastonia, N. C. Quiller rake. 2,652,203, Sept. 15.

Coney, Charles H., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Solvent polishing-injection molded articles of cellulose acetate-butyrate. 2,651,811, Sept. 15.

Consolidated Engineering Corporation, assignee: *See*—
Washburn, Harold W.

Container Corporation of America, assignee: *See*—
Acker, Ralph E.

Conti, John D., Philadelphia, Pa., assignor to American Viscose Corporation, Wilmington, Del. Package. 2,652,335, Sept. 15.

Coover, Harry W., Jr., and J. B. Dickey, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Reaction of lactones with trialkyl phosphite. 2,652,416, Sept. 15.

Coover, Harry W., Jr.: *See*—
Dickey, Joseph B., and Coover.

Cordier, David E., and W. D. Williams, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Production of articles of improved water resistance from urea-formaldehyde resins. 2,652,375, Sept. 15.

Core, Thomas H., Glendale, Calif. Toy vehicle and steering means therefor. 2,651,882, Sept. 15.

Couch, S. H., Company, Inc., assignee: *See*—
Johnson, Carl A. P.

Cowan, John C.: *See*—
Teeter, Howard M., and Cowan.

Coyner, James M., Madison, Wis. Spraying mechanism for livestock cars. 2,652,024, Sept. 15.

Coyner, James M., Madison, Wis. Nipple-equipped feeder pail. 2,652,027, Sept. 15.

Crabalona, Laurent L., Grasse, assignor to Societe Anonyme des Etablissements Rouze-Bertrand Fils & Justin Dupont, Paris, France. Preparation of lactones. 2,652,406, Sept. 15.

Craig, Willis G., Cleveland, assignor to The Lubrizol Corp., Wickliffe, Ohio. Asphalt emulsion. 2,652,341, Sept. 15.

Cramer, Martha K., New York, N. Y. Utility and spectacle case. 2,652,089, Sept. 15.

Crosby, Edward L., Jr., Baltimore, assignor to Bendix Aviation Corporation, Towson, Md. Sound separation means for carrier frequency difference television receivers. 2,652,447, Sept. 15.

Crouse-Hinds Company, assignee: *See*—
Bissell, Carl H.

Culbertson, Jackson L., assignee: *See*—
Perrault, Ainslie.

Cummins Engine Company, Inc., assignee: *See*—
Knudsen, Hans L.

Cunningham, Orin D., and O. L. Polly, Long Beach, assignors to Union Oil Company of California, Los Angeles, Calif. Esters of alpha-hydroxy acids and their estolides. 2,652,410, Sept. 15.

Curry, William H., Winnipeg, Manitoba, Canada. Stone collector. 2,651,902, Sept. 15.

Curtis, Earl W., Temple, Pa. Can opener. 2,651,838, Sept. 15.

Curtis, John R., Nashotah, Wis. Manufacturing bowling pin billets. 2,652,081, Sept. 15.

Curtiss-Wright Corporation, assignee: *See*—
Chilton, Roland.
Smith, William F.

Cussons, Richard C., assignor to Dowty Equipment Limited, Cheltenham, England. Aircraft retractable and steerable nose-wheel and tail-wheel mountings. 2,652,214, Sept. 15.

Cutler, Cassius C., Gillette, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Expander for microwave signals. 2,652,541, Sept. 15.

Cutter Laboratories, assignee: *See*—
Bishop, Clifford B.

Cycloptic Anstalt für Optik und Mechanik, assignee: *See*—
Tiller, Hans.

Cyr, Rob R., Berkeley, Calif., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Automatic tank pump down. 2,652,188, Sept. 15.

Czerwiczuik, Stanley J., Milwaukee, Wis. Rosary assemblage. 2,651,850, Sept. 15.

Dahlstrom, Frank P., Woodbridge, Conn. Method of and means for rolling strip material. 2,651,954, Sept. 15.

Dailey, Philip T., Akron, Ohio. Bearing-cleaning device and method. 2,652,350, Sept. 15.

Dale, Colin B., Oak Park, A. L. Berg, and H. H. Wagner, assignors to Webster-Chicago Corporation, Chicago, Ill. Phonograph. 2,652,258, Sept. 15.

Dann, Ernest G., New York, N. Y. Shorts. 2,652,053, Sept. 15.

Danroth, Edward J., and A. Petkau, Domaine, Saskatchewan, Canada; said Petkau assignor to said Danroth. Tire bead breaking hand tool. 2,652,103, Sept. 15.

Dassard, Félix J. M., Saint-Chamond, France. Extensible electric cord. 2,652,444, Sept. 15.

Davidson, Stanley, Sudbury, Ontario, Canada. Electromagnetic induction method and apparatus for locating subterranean electrically conductive bodies. 2,652,530, Sept. 15.

Davis, Elwood A.: *See*—
Moody, John L., and Davis.

Davis, Harold D., Montebello, Calif. Line splicer. 2,652,273, Sept. 15.

Davis, John F., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Polyester resin compositions and preparing same. 2,652,382, Sept. 15.

Davis, John F., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Polyester resin compositions and preparing same. 2,652,383, Sept. 15.

Davis, Nelson L., Chicago, Ill. Plug valve for controlling the flow of solids laden liquid. 2,652,175, Sept. 15.

Davis, Ralph P., Squantum, assignor to Walworth Company, Boston, Mass. Mold supporting device. 2,651,822, Sept. 15.

Davison, Alan, assignor to Automatic Telephone & Electric Company Limited, Liverpool, England. Display arrangement. 2,652,514, Sept. 15.

Dayton Pump & Manufacturing Company, The, assignee: *See*—
Bergh, Charles J.

Dean, Charlie, Charlotte, N. C. Hose nozzle support. 2,652,218, Sept. 15.

De Groote, Melvin, University City, Mo., assignor to Petrolite Corporation. Oxypropylated polyamide-polycarboxylic acid reaction product. 2,652,388, Sept. 15.

De Groote, Melvin, University City, Mo., assignor to Petrolite Corporation. Certain oxyalkylated derivatives of sucrose. 2,652,394, Sept. 15.

De Groote, Melvin, University City, Mo., assignor to Petrolite Corporation. Fractional esters of polyoxyalkylated furfurylamine. 2,652,407, Sept. 15.

De Groote, Melvin, St. Louis, Mo., assignor to Petrolite Corporation, Wilmington, Del. Oxyalkylation of the amides of secondary amines. 2,652,409, Sept. 15.

De Groote, Melvin, University City, Mo., assignor to Petrolite Corporation. Acidic esters of oxyalkylated tetramethylolcyclohexanol. 2,652,418, Sept. 15.

De Groote, Melvin, University City, Mo., assignor to Petrolite Corporation. Fractional esters of polyoxyalkylated p, p'-dihydroxydiphenyl-dimethyl-methane. 2,652,419, Sept. 15.

De Groote, Melvin, University City, Mo., assignor to Petrolite Corporation. Fractional esters of oxypropylated 4,4'-dihydroxydiphenyl sulfone. 2,652,420, Sept. 15.

De Groote, Melvin, University City, Mo., assignor to Petrolite Corporation. Fractional esters of polyoxyalkylated glyceryl ethers. 2,652,421, Sept. 15.

De Groote, Melvin, University City, Mo., assignor to Petrolite Corporation. Fractional esters of polyoxyalkylated glycerol ethers. 2,652,422, Sept. 15.

De Groote, Melvin, University City, Mo., assignor to Petrolite Corporation. Fractional esters of polyoxyalkylated glyceryl ethers. 2,652,423, Sept. 15.

De Groote, Melvin, University City, Mo., assignor to Petrolite Corporation. Acid fractional esters of oxypropylated hexanetriol-1,2,6. 2,652,424, Sept. 15.

De Groote, Melvin, University City, Mo., assignor to Petrolite Corporation. Oxypropylated fractional esters of polycarboxylic acids. 2,652,425, Sept. 15.

De Lancey, Warren H., and E. E. Vincent, Springfield, Mass., assignors, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich. Variable capacity pump with dual discharge means. 2,651,994, Sept. 15.

Deline, Walter W., Denver, Colo. Pliers for applying split-shot fishing sinkers. 2,651,958, Sept. 15.

Demontvignier, Marcel, Jouy par Breuillet-Village, assignor to Societe a Responsabilite Limitee dle: Hewittic, Suresnes, France. Self-contained inverted rectifier. 2,652,528, Sept. 15.

De Salardi, Albert B., deceased, Wilkinsburg, Pa., M. De Salardi, administratrix. Helmet mounted pistol. 2,651,872, Sept. 15.

De Salardi, Mary, administratrix: *See*—
De Salardi, Albert B.

Dewhirst, Joseph F., Bridgeport, Conn. Engine stopping device for motor vehicles. 2,652,125, Sept. 15.

Dick, A. B., Company, assignee: *See*—
Johnson, Clyde W.

Dickert, Joseph J., Jr.: *See*—
Hartough, Howard D., Dickert, and Meisel.

Dickey, Joseph B.: *See*—
Coover, Harry W., Jr., and Dickey.

Dickey, Joseph B., and H. W. Coover, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. Polymerization with alkyl phosphite catalysts. 2,652,393, Sept. 15.

Dietrich, Anselm F., West Long Branch, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Apparatus for modifying the amplitude range of microwave signals. 2,652,540, Sept. 15.

Di Langiano, Louis T., Bronx, N. Y. Electrically heated steering wheel. 2,652,476, Sept. 15.

Disston, Henry, and Sons, Inc., assignee: *See*—
Bye, Norman C.

Ditto, Incorporated, assignee: *See*—
Bruns, Herbert F.

Dodson, William C.: *See*—
Drum, Harry S., and Dodson.

Doke, Ernest G., Winnetka, assignor to MacLean-Fogg Lock Nut Company, Chicago, Ill. Adjacent floor and threshold plate structure for railway cars. 2,651,819, Sept. 15.

Dow Chemical Company, The, assignee: *See*—
Bauman, William C., and McMaster.

Dow Corning Corporation, assignee: *See*—
Hunter, Melvin J., and Smith.

Dowty Equipment Limited, assignee: *See*—
Cussons, Richard C.

Doyle, Irving W., Massapequa, assignor to Fairchild Camera and Instrument Corporation, Jamaica, N. Y. Strip film magazine for cameras. 2,651,964, Sept. 15.

Drey, Norman W., University City, Mo. Preserving and presenting a urine sample for analysis thereof. 2,652,314, Sept. 15.

Drum, Harry S., and W. C. Dodson, Abington, assignors to Smith, Drum & Company, Philadelphia, Pa. Machine for processing thermoplastic hosiery. 2,651,932, Sept. 15.

Drumboy, Inc., assignee: *See*—
Negola, Carmine.

Dryden, Ian G. C., Wallington, and J. H. McKee, Ashted, assignors to C. U. R. A. Patents Limited, Leatherhead, Surrey, England. Uniting solids with the aid of binding and adhesive agents. 2,652,354, Sept. 15.

Dubiell, Edward J., assignor to H. L. Judd Company, Wallingford, Conn. Curtain rod. 2,652,156, Sept. 15.

Dunlap, Samuel D. J., Detroit, Mich. Means for securing conductors to outlet boxes. 2,652,269, Sept. 15.

Dunlop Tire and Rubber Corporation, assignee: *See*—
Anderson, John, and Goy.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Farlow, Mark W., and Herrick.
Lewis, Ernest D., and Luckring.
Raasch, Maynard S., and Tullock.

Du Rant, John W., Kingstree, S. C. Storage and vaporising apparatus for liquefied petroleum gas mixtures. 2,651,921, Sept. 15.

Durant, Lyndon A., and M. P. Wolverton, assignors to General Patent Corporation, Chicago, Ill. Bowling pin elevating and resetting mechanism. 2,652,537, Sept. 15.

Duval, Philippe C., Paris, France. Combined illuminator and reflector. 2,652,480, Sept. 15.

Duwe, Albert J.: *See*—
Wagner, Robert S., Himes, and Duwe.

Earle, Hilton H., Jr.: *See*—
Pianfetti, John A., Melvin, and Earle.

Eastman Kodak Company, assignee: *See*—
Albert, Per, and Knott.
Caldwell, John R.
Carroll, Burt H.
Condax, Louis M.
Coney, Charles H.
Coover, Harry W., Jr., and Dickey.
Dickey, Joseph B., and Coover.
Fitch, Harold L.
Gerhardt, James S.
Hagemeyer, Hugh. J., Jr.
Hiatt, Gordon D., and Williams.
Hodges, Howard T.
Hunt, Clayton E., Jr.
Jones, Jean E.
Keyes, Grafton H., and Brooker.
McCrossen, Fred C., Parmerter, and Weissberger.
Schulken, Roger M., Jr., and Boy.
Tuttle, Fordyce E.
Weissberger, Arnold, and Thirtle.
Weissberger, Arnold, Thirtle, and Bent.
Wittel, Otto.

Eaton Laboratories, Inc., assignee: *See*—
Gever, Gabriel.

Eble, Thomas E.: *See*—
Hanson, Frederick R., and Eble.

Eckles, Howard W.: *See*—
Lindberg, Caryl A., and Eckles.

Edwal Laboratories, Inc., The, assignee: *See*—
Pfeifer, George T.

Edwards, Robert B.: *See*—
Smeltzer, Raymond F., Edwards, Baker, and Burton.

Ehemann, John W.: *See*—
Glass, Marvin I., Ehemann, and Kraus.

Eidman, Albert W., South Euclid, and A. H. Wilkelis, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Thread advancing reel. 2,651,828, Sept. 15.

Electrical & Musical Industries Limited, assignee: *See*—
McGee, James D.
White, Eric L. C.

Elliott, Lee, Bakersfield, Calif. Turret unit. 2,651,973, Sept. 15.

Elly, Joyce: *See*—
Hohenstein, Walter P., Haward, and Elly.

Elsner, Edwin C., Glendale, Calif. Rope and cable joint. 2,651,824, Sept. 15.

Emerson Electric Manufacturing Company, The, assignee: *See*—
Lindberg, Caryl A., and Eckles.

Emhart Manufacturing Company, assignee: *See*—
Kimball, Wallace D.

Emmons, Joseph V., Shaker Heights, assignor to The Cleveland Twist Drill Company, Cleveland, Ohio. Wood bit. 2,652,083, Sept. 15.

Endlich, Barbara T., Brooklyn, N. Y. Pattern tracing board. 2,652,267, Sept. 15.

Endo Products, Inc., assignee: *See*—
Kaye, Irving A.

Engelke, Edmund H., Annapolis, Md. Stop shoulder for recoilless rifle ammunition. 2,651,972, Sept. 15.

Englander Company, Inc., The, assignee: *See*—
Pillero, James.

English Electric Company Limited, The, assignee: *See*—
Sterland, Ernest G.

Enos, John P., Union, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine presser-foot. 2,652,016, Sept. 15.

Enslein, Vincent W., Cincinnati, Ohio. Food tray for the blind. 2,651,926, Sept. 15.

Ercoli, Nicholas, Milan, Italy, and G. van Wessem, Harrison, N. Y., assignors to Warner-Hudnut, Inc. Fungicides. 2,652,355, Sept. 15.

Estey, Melvin E., assignor to Perfect Circle Corporation, Hagerstown, Ind. Piston sealing ring. 2,652,298, Sept. 15.

Eurell, Thomas J., II, assignee: *See*—
Reed, Maurice J.

Evans, George S.: *See*—
Laidig, Alfred H., and Evans.

F. Aug., Honneknovel, assignee: *See*—
Mannes, Günter.

Fairchild Camera and Instrument Corporation, assignee: *See*—
Doyle, Irving W.

Fargo, Loren K., St. Paul, Minn. Wall mounting for clocks. 2,651,908, Sept. 15.

Farlow, Mark W., Wilmington, Del., and E. C. Herrick, Boothwyn, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Catalytic hydrogenation of carbon monoxide to orientable, essentially hydrocarbon polymers. 2,652,372, Sept. 15.

Farrell, Richard R., assignor to Universal Lubricating Systems, Inc., Oakmont, Pa. Germicidal receptacle. 2,652,173, Sept. 15.

Fedders-Quigan Corporation, assignee: *See*—
Prayborowski, Stanislaus.

Federal Telephone and Radio Corporation, assignee: *See*—
Vanderhoof, Alton S.

Feldman, Bernard, Rehovoth, Israel. Homogeniser. 2,652,234, Sept. 15.

Ferguson, Cedric K., Fullerton, assignor to California Research Corporation, San Francisco, Calif. Gas-oil separator. 2,652,130, Sept. 15.

Feten, Lewis C., Long Beach, Calif. Overcoming elongation of pulses. 2,652,451, Sept. 15.

Field, Edward A., Mendota, Ill. Barometric draft regulator. 2,652,200, Sept. 15.

Field, John J., Pocatello, Idaho. Combination crib and playpen. 2,651,786, Sept. 15.

Fields, Joseph E., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Liquid addition product of an acetal and dialkyl esters of an alpha-beta unsaturated aliphatic dicarboxylic acid as an antifoaming agent for hydrocarbon oils. 2,642,369, Sept. 15.

Finch, Harry de V., Berkeley, and S. A. Ballard, Orinda, assignors to Shell Development Company, San Francisco, Calif. Preparation of N-substituted saturated diamines. 2,652,430, Sept. 15.

Fine, John A., Knoxville, Tenn. Display device. 2,651,862, Sept. 15.

Fink, Arthur, assignor to Plastodent, Inc., New York, N. Y. Dental impression material. 2,652,312, Sept. 15.

Fisher, William J., Detroit, Mich. Stock guide for rolling mills and the like. 2,651,955, Sept. 15.

Fitch, Harold L., assignor to Eastman Kodak Company, Rochester, N. Y. Film-winding device. 2,652,208, Sept. 15.

Flaton, Jacob J., Lemay, Mo. Automatic shutoff safety clutch coupling. 2,652,135, Sept. 15.

Folland, Sidney J., Malad City, Idaho. Knife assembly. 2,651,839, Sept. 15.

Food Machinery and Chemical Corporation, assignee: *See*—
Pianfetti, John A., Melvin, and Earle.

Ford, Jared H., and W. G. Jackson, assignors to The Upjohn Company, Kalamazoo, Mich. Selective extraction of substances possessing antipernicious anemia activity with diethylacetic acid. 2,652,357, Sept. 15.

Forwood, David F., assignor to Taylor Bedding Manufacturing Co., Taylor, Tex. Mattress. 2,651,788, Sept. 15.

Fox, Asher J., assignor ot Caryl Leslie Creations, Philadelphia, Pa. Panty girdle. 2,651,777, Sept. 15.

Fox, Martin, Baltimore, Md. Machine for filling cartons. 2,652,180, Sept. 15.

Foxboro Company, assignee: *See*—
Minter, Clarke C.

Foxboro Company, The, assignee: *See*—
Bowditch, Hoel L.

Frabill Manufacturing Company, assignee: *See*—
Brockman, Ray E.

Franco, Roderick E., New York, N. Y. Garment hanger. 2,652,179, Sept. 15.

Frankenhoff, Charles A., Scarsdale, N. Y. Filtration method. 2,652,152, Sept. 15.

Freeman, Walter C., Jr., Morris Plains, N. J., assignor to Sylvania Electric Products Inc. Variable capacitor tube. 2,652,518, Sept. 15.

Frey, Joseph, Dearborn, Mich., assignor to York Industries, a division of York Manufacturing Company. Manually actuated device for projecting successively spaced film frames. 2,651,968, Sept. 15.

Fricar Mfg. Co., Inc., assignee: *See*—
Friday, Erwin J.

Friday, Erwin J., South Glens Falls, assignor to Fricar Mfg. Co., Inc., Schenectady, N. Y. Sheet-material dispensing mechanism. 2,652,302, Sept. 15.

Friday, Erwin J., South Glens Falls, assignor to Fricar Mfg. Co., Inc., Schenectady, N. Y. Sheet-material dispensing mechanism. 2,652,303, Sept. 15.

Friden Calculating Machine Co., Inc., assignee: *See*—
Moody, John L., and Davis.

Frontier Manufacturing Company, assignee: *See*—
Jenkins, Jack, and Beren.

Frost, Albert E., Bloomfield, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Interpolating circuit. 2,652,482, Sept. 15.

Furnas Electric Company, assignee: *See*—
Furnas, William C., and Keertge.

Furnas, William C., Batavia, and N. H. Keertge, Glen Ellyn, assignors to Furnas Electric Company, Batavia, Ill. Mounting for electric motor starters. 2,652,506, Sept. 15.

Gabrielsen, Christian, assignor to Rowe Manufacturing Co., Inc., Whippany, N. J. Candy merchandising machine. 2,652,304, Sept. 15.

Gadd, Charles W.: *See*—
Van Degrift, Thomas C., Gadd, and Matsen.

Gail, Stewart E., Maple Heights, assignor to Jack & Heintz, Inc., Cleveland, Ohio. Commutator. 2,652,509, Sept. 15.

Gallmard, Eugene P., Jr.: *See*—
Gallmard, Eugene P., Sr., and E. P. Gallmard, Jr.

Gallmard, Eugene P., Sr., Chicago, and E. P. Gallmard, Jr., Munster, Ind., said Gallmard, Jr., assignor to said Gallmard, Sr. Cigarette lighter. 2,651,981, Sept. 15.

Gair, Albert W.: *See*—
Booth, James H., and Gair.

Garrett Corporation, The, assignee: *See*—
Warstler, Walter H.

Gates, Dora E.: *See*—
Wright, Mildred A., and Gates.

Gates Rubber Company, The, assignee: *See*—
Burton, Frank L.

Gaubatz, Arthur W., Indianapolis, Ind., assignor to General Motors Corporation, Detroit, Mich. Turbine wheel mounting. 2,652,271, Sept. 15.

Geiger, Gerald L., assignee: *See*—
Geiger, Ludwig A.

Geiger, Ludwig A., New York, N. Y., assignor to G. L. Geiger, Washington, D. C. Water shoe. 2,651,790, Sept. 15.

General Aniline & Film Corporation, assignee: *See*—
Buc, Saul R.
Groesser, Frederick.
Marnon, Donald E., and Snowden.
Solomen, Nicholas W., and Randall.
Sprung, Joseph A.
Verburg, Robert M.

General Controls Co., assignee: *See*—
Ray, William A.

General Electric Company, assignee: *See*—
Abbott, Roy W.
Alexanderson, Ernst F. W.
Benander, George B.
Blechoff, Alfred F.
Bosworth, Phillips N.
Halfhill, Donald W.
Kalikow, Irving, Willey, and Poole.
Smith, Russell M.
Studders, Robert J.
Von Hoorn, Fred G., and Bennett.
Wilson, Volney C.
Zemany, Paul D.

General Electric Company Limited, The, assignee: *See*—
Levy, Maurice M.
Rudge, Thomas R.

General Mills, Inc., assignee: *See*—
Terry, David E., and Warner.

General Motors Corporation, assignee: *See*—
Gaubatz, Arthur W.
Guyton, James H.
Harada, Henry H.
Kearful, Godfrey G.
Kelley, Oliver K., and Wolfram.
Martin, Flyodd A., and Jeffery.
Picon, Josue R.
Van Degrift, Thomas C., Gadd, and Matsen.

General Patent Corporation, assignee: *See*—
Durant, Lyndon A., and Wolverton.

General Steel Castings Corporation, assignee: *See*—
Travilla, James C., Jr., and Sheehan.

Gerhardt, James S., assignor to Eastman Kodak Company, Rochester, N. Y. Paper adhesive tape. 2,652,351, Sept. 15.

Gever, Gabriel, Oxford, assignor to Eaton Laboratories, Inc., Norwich, N. Y. Series of new 3-amino-2-oxasolidones and the preparation thereof. 2,652,402, Sept. 15.

Geyer, Charles J., Jr. *See*—
Mallinson, John H., and Geyer.

Gibney, Joseph W., assignor to Russell, Burdsall & Ward Bolt and Nut Company, Port Chester, N. Y. Support for taps. 2,651,792, Sept. 15.

Gilmore, Forrest E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Continuous weighing mechanism for solids. 2,652,141, Sept. 15.

Glass, Marvin I., J. W. Ehemann, and M. R. Kraus, Chicago, Ill. Toy kangaroo. 2,651,881, Sept. 15.

Gleason, Anthony H., Westfield, N. J., assignor to Standard Oil Development Company. Synthetic drying oil and enamel paint and making same. 2,652,342, Sept. 15.

Goebel Aktiengesellschaft, assignee: *See*—
Stuberlich, Willy.

Goedken, Ray, Dyersville, Iowa. Linoleum lifter. 2,652,207, Sept. 15.

Goheen, Herman M., Lansing, Mich. Distributing and venting header. 2,652,069, Sept. 15.

Gohlke, Gerhard A.: *See*—
Neuhart, Frederick C., and Gohlke.

Goldstein, Adolph O., Santa Cruz, Calif. Bun slicer. 2,652,086, Sept. 15.

Goode, Joseph H., Houston, Tex. Multiple seat union. 2,652,288, Sept. 15.

Goodford, Anthony J., Wilkes-Barre, Pa. Circle marker. 2,651,843, Sept. 15.

Goodman Manufacturing Company, assignee: *See*—
Sloane, William W.

Goodrich, B. F., Company, The, assignee: *See*—
Wilson, Matthew W.

Gordon, Carroll G., Pasadena, Calif., and R. R. Cameron, Denver, Colo. Electric butt welding. 2,652,473, Sept. 15.

Gorman, Andrew T., Pitcairn, Pa., assignor to Westinghouse Air Brake Company. Control apparatus for fluid compressors. 2,652,189, Sept. 15.

Gorman-Rupp Company, The, assignee: *See*—
Rupp, Warren E.

Goy, Ronald S.: *See*—
Anderson, John, and Goy.

Graber, Dorothy and H., Bronx, N. Y. Folding end extensible table with elevating structure. 2,652,300, Sept. 15.

Graber, Herman: *See*—
Graber, Dorothy and H.

Grace, James A., Hazleton, Pa. Plate type undulating flue boiler. 2,652,036, Sept. 15.

Graham, Benton L., Cactus, Tex., assignor to Phillips Petroleum Company. Crystallisation process and apparatus. 2,651,922, Sept. 15.

Graham, George M., Fort Lauderdale, Fla., assignor to Kent-Moore Organization, Inc., Detroit, Mich. Process of and apparatus for removing carbon from the interior walls of combustion chambers. 2,651,887, Sept. 15.

Graham, Robert E., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Motional correlation in reduced band width television. 2,652,449, Sept. 15.

Graham, Robert E., Floral Park, N. Y., assignor to Sylvania Electric Products Inc. Switching apparatus for electron tube capacitance measurements. 2,652,534, Sept. 15.

Gralenski, Nicholas M., Millers Falls, Mass. Tractor ditch digging attachment. 2,651,859, Sept. 15.

Graves, Forrest G., Glendale, Calif. Trouble light guard. 2,652,484, Sept. 15.

Gray, Willis J., Detroit, Mich. Tray cabinet. 2,652,300, Sept. 15.

Green, Marjorie F., New York, N. Y. Tension device for belts. 2,651,825, Sept. 15.

Gregor, Herbert H., Rockville, Md. Preparation of ceramic bodies for plastic forming. 2,652,338, Sept. 15.

Greig, James W., assignor to Woodall Industries, Inc., Detroit, Mich. Dash panel. 2,651,986, Sept. 15.

Griffin, Dana A., North Plainfield, N. J., assignor to D. A. Griffin, W. J. Hammond and B. S. McCutcheon, copartners doing business as Communication Measurements Laboratory, New York, N. Y. Gaseous discharge tube circuit. 2,652,519, Sept. 15.

Griffiths, Morris E., Riverside, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Rotary connector switch. 2,652,454, Sept. 15.

Griffith, Frederick J., New York, N. Y. Chain pipe cover and seal. 2,652,018, Sept. 15.

Gring, John L., Homewood, Ill., assignor to Sinclair Refining Company, New York, N. Y. Forming spheroidal catalyst particles. 2,652,371, Sept. 15.

Griswold, Stanley M., West Newton, and H. C. Reynolds, Jr., Belmont, assignors to B. B. Chemical Co., Boston, Mass. Cover for temporary protection of shoes. 2,651,857, Sept. 15.

Grosser, Frederick, North Plainfield, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Separating β-chloro-α-alkoxyethylbenzenes from their reaction mixture. 2,652,431, Sept. 15.

Gruber, Wolfgang, J. Heckmaier, and H. Zoebelein, Burghausen, assignors, by mesne assignments, to Wacker-Chemie G. m. b. H., Munich, Germany. Producing condensation products of polyvinyl alcohol and aldehydes. 2,652,387, Sept. 15.

Guarantee Specialty Manufacturing Company, The, assignee: *See*—
Wright, Richard H.

Guenst, William, Elkins Park, Pa. Etching machine. 2,651,869, Sept. 15.

Gumpertz, Donald G., North Hollywood, and R. C. Alexander, Long Beach, Calif., assignors, by mesne assignments, to M & M Manufacturing Corporation. Parking meter. 2,652,551, Sept. 15.

Guyton, James H., Kokomo, Ind., assignor to General Motors Corporation, Detroit, Mich. Signal seeking tuner. 2,652,486, Sept. 15.

Guyton, James H., Kokomo, Ind., assignor to General Motors Corporation, Detroit, Mich. Signal seeking tuner. 2,652,494, Sept. 15.

Gynt, Sven E., V. Poulsen, and R. Lundqvist, assignors to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Electric melting furnace. 2,652,441, Sept. 15.

Haas, Earle C., assignee: *See*—
Lay, Willard V.

Hagemeyer, Hugh J. Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Polymerization of α-acyloxyacrylonitriles in aqueous systems using a redox catalyst and polymers obtained therefrom. 2,652,390, Sept. 15.

Halfhill, Donald W., Marblehead, Mass., assignor to General Electric Company. Deviation compensator. 2,652,545, Sept. 15.

Hall, Arthur H., La Crosse, Wis. Illuminated level. 2,652,481, Sept. 15.

Hall, Chester L., Chester, assignor to Sun Oil Company, Philadelphia, Pa. Drum tumbler. 2,652,140, Sept. 15.

Hall, W. F., Printing Company, assignee: *See*—
Ackley, Raymond E.

Hammond, John V., Spangler, Pa. Wedge type bolt or pin. 2,651,962, Sept. 15.

Hammond, William J., assignee: *See*—
Griffin, Dana A.

Hannum, Charles M., Birmingham, assignor, by mesne assignments, to Koptl-Kat Company, Detroit, Mich. Apparatus for cutting materials. 2,651,889, Sept. 15.

Hanse, William C., Philadelphia, Pa. Fishing reel. 2,652,211, Sept. 15.

Hanson, Frederick R., and T. E. Eble, assignors to The UpJohn Company, Kalamazoo, Mich. Fumagillin and preparation. 2,652,356, Sept. 15.

Harada, Henry H., Grand Blanc, assignor to General Motors Corporation, Detroit, Mich. Remote electrical drive unit. 2,652,471, Sept. 15.

Harazim, Stanley J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Support structure. 2,652,307, Sept. 15.

Harden, Charles McL.: *See*—
Alexander, William G., and Harden.

Harper-Wyman Company, assignee: *See*—
Huff, Norman M.
Peterson, Vincent C., and Nadasdy.

Harrington, Donald K., McDonough, N. Y. Sliding jaw vise, including a presettable, lever-actuated, jaw locking means. 2,651,959, Sept. 15.

Harrington, Lester B., Pentwater, Mich. Rotary pump. 2,651,999, Sept. 15.

Hart, Norman E., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale lens frame mounting. 2,652,020, Sept. 15.

Hartman, William W., and R. A. Steps, Los Angeles, Calif. Basket guide. 2,652,118, Sept. 15.

Hartough, Howard D., Pitman, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Preparation of 2-thenylformaldimines. 2,652,404, Sept. 15.

Hartough, Howard D., Pitman, J. J. Dickert, Jr., Westville, and S. L. Meisel, West Deptford Township, Glouster County, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Reaction of cracked petroleum fractions, formaldehyde and ammonium halides and products. 2,652,429, Sept. 15.

Hastings Manufacturing Company, assignee: *See*—
Johnson, Stephen I.
Phillips, Harold P.

Havener, Arthur R., Wayland, assignor to Judson L. Thomson Manufacturing Company, Waltham, Mass. Automatic riveting machine. 2,652,167, Sept. 15.

Haward, Robert N. *See*—
Hohenstein, Walter P., Haward, and Elly.

Hawkins, James E., assignor to Seismograph Service Corporation, Tulsa, Okla. Radio location system. 2,652,558, Sept. 15.

Hawkins, James E., assignor to Seismograph Service Corporation, Tulsa, Okla. Radio location system. 2,652,559, Sept. 15.

Hawkins, James E., assignor to Seismograph Service Corporation, Tulsa, Okla. Radio location system. 2,652,560, Sept. 15.

Hawkins, James E., assignor to Seismograph Service Corporation, Tulsa, Okla. Radio location system. 2,652,561, Sept. 15.

Hawkins, James E., assignor to Seismograph Service Corporation, Tulsa, Okla. Radio location system. 2,652,562, Sept. 15.

Hayden, Ralph W.: *See*—
Nelson, Clinton G., and Hayden.

Hayes Industries, Inc., assignee: *See*—
Cary, Beecher B.

Haynes, Nathan M., New York, N. Y. Magnetic tape recorder. 2,652,204, Sept. 15.

Hazeltine Research, Inc., assignee: *See*—
Hirsch, Charles J.

Heald Machine Company, The, assignee: *See*—
Menard, Clifford G., and McCabe.

Heckmaier, Joseph: *See*—
Gruber, Wolfgang, Heckmaier, and Zoebelein.

Hedrick, Ross M.: *See*—
Mowry, David T., and Hedrick.

Hedrick, Ross M., and D. T. Mowry, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Pelleted seed product. 2,651,883, Sept. 15.

Hedrick, Ross, M., and D. T. Mowry, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Conditioning agricultural soil and growing plants therein. 2,651,885, Sept. 15.

Hedrick, Ross M., and D. T. Mowry, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Herbicides. 2,652,322, Sept. 15.

Hedrick, Ross M., and D. T. Mowry, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Soil additive. 2,652,379, Sept. 15.

Heedrick, Ross M., and D. T. Mowry, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Soluble calcium salt of a copolymer of vinyl acetate and a mono-ester of maleic acid. 2,652,380, Sept. 15.

Heggie, James, Clydebank, Scotland, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine for stitching leather cases. 2,652,014, Sept. 15.

Heigl, John J., Cranford, N. J., assignor to Standard Oil Development Company. Tank gauging apparatus. 2,651,938, Sept. 15.

Heilman, Bernard, assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich. Wrapping machine. 2,651,900, Sept. 15.

Heimers, Rudolph H., Coronado, Calif. Violin rest. 2,651,961, Sept. 15.

Heitlage, Henry: *See*—
Woodruff, George M., and Heitlage.

Heltman, Clarence H., University City, and R. R. Niehaus, Kirkwood, Mo., said Niehaus assignor to said Heltman. Hinge for shoe lasts. 2,651,794, Sept. 15.

Hemphill Company, assignee: *See*—
St. Pierre, Paul L.

Henderson, Eldon C., Paso Robles, Calif. Purse with attached loss-preventing device. 2,652,000, Sept. 15.

Henderson, Willis, Los Angeles, Calif. Accidentally dropped knitted stitch retainer. 2,651,928, Sept. 15.

Henney Motor Company, Inc., assignee: *See*—
Laible, Ray A.

Hensgen, Bernard T., Chicago, and D. E. Rueckert, Mokena, assignors to Swift & Company, Chicago, Ill. Margarine package. 2,652,336, Sept. 15.

Herrick, Elbert C.: *See*—
Farlow, Mark W., and Herrick.

Herrick, Henry N.: *See*—
Schaufelberger, William M., Herrick, and Leggett.

Herzig, Leonard A., and M. Coan, Jackson Heights, N. Y., assignors to A. R. Stern, San Diego, Calif. Method of and apparatus for removing stacked articles. 2,652,161, Sept. 15.

Herzog, Gerhard, and A. S. McKay, Houston, Tex., assignors to The Texas Company, New York, N. Y. Radioactivity method and apparatus for borehole logging. 2,652,496, Sept. 15.

Hess, Howard V.: *See*—
Arnold, George B., and Hess.

Hess, Howard V., Beacon, and G. B. Arnold, Glenham, assignors to The Texas Company, New York, N. Y. Separating polycyclic aromatic compounds from organic mixtures. 2,652,435, Sept. 15.

Hess, Howard V., Beacon, and G. B. Arnold, Glenham, assignors to The Texas Company, New York, N. Y. Separating polycyclic aromatic compounds from organic mixtures. 2,652,436, Sept. 15.

Hewlett-Packard Company, assignee: *See*—
Hewlett, William R., and Zeidler.

Hewlett, William R., and H. M. Zeidler, assignors to Hewlett-Packard Company, Palo Alto, Calif. High-frequency generator. 2,652,511, Sept. 15.

Hiatt, Gordon D., and R. F. Williams, assignors to Eastman Kodak Company, Rochester, N. Y. Stabilized cellulose lower alkanoates. 2,652,340, Sept. 15.

Hignett, Harold W. G., Edgbaston, Birmingham, England, assignor to The International Nickel Company, Inc., New York, N. Y. Cast iron. 2,652,324, Sept. 15.

Himes, John M.: *See*—
Wagner, Robert S., Himes, and Duwe.

Hirsch, Charles J., Douglaston, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Electrical computer. 2,652,194, Sept. 15.

Hirsch, Emile, Cairo, Egypt. Metal-backed wood floor. 2,651,820, Sept. 15.

Hlivka, Bernice, Minneapolis, Minn. Baby holder for children's chairs. 2,652,183, Sept. 15.

Hobbs, John F.: *See*—
Chadwick, Richard, and Hobbs.

Hodges, Howard T., assignor to Eastman Kodak Company, Rochester, N. Y. Film metering mechanism. 2,652,209, Sept. 15.

Hodges, Howard T., assignor to Eastman Kodak Company, Rochester, N. Y. Film metering and phasing mechanism. 2,652,210, Sept. 15.

Hodges, James W., Beaumont, Tex., assignor to Sun Oil Company, Philadelphia, Pa. Oil well contamination removing tool. 2,652,120, Sept. 15.

Hodgson, Grant B., assignor to Solar Aircraft Company, San Diego, Calif. Gas Turbine combustion chamber. 2,651,913, Sept. 15.

Hoffman, James D., Pacific Palisades, Calif., assignor to North American Aviation, Inc. Aircraft structure cooling means. 2,652,216, Sept. 15.

Hoffman-La Roche Inc. assignee: *See*—
Steiger, Norbert.

Hohenstein, Walter P., Kew Gardens, N. Y., R. N. Haward, and J. Elly, London, England; said Haward and said Elly assignors to said Hohenstein. Suspension polymerization of unsaturated organic compounds. 2,652,392, Sept. 15.

Hohlfelder, F., Company, The, assignee: *See*—
Hohlfelder, Harvey F.

Hohlfelder, Harvey F., North Perry, assignor to The F. Hohlfelder Company, Cleveland, Ohio. Chaplet. 2,651,823, Sept. 15.

Hohmann, Richard K., Jamaica, N. Y. Sewing machine thread clamping mechanism. 2,652,017, Sept. 15.

Holahan, Joseph M., Jr., assignor to Ocean City Manufacturing Company, Philadelphia, Pa. Surf casting fishing reel. 2,652,212, Sept. 15.

Holland, Hal H., Jr., Corpus Christi, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Core recovery indicating device. 2,652,232, Sept. 15.

Hollenberg, Arthur V., Morris Township, Morris County, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron gun. 2,652,512, Sept. 15.

Hollenberg, Arthur V., Morris Plains, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Microwave amplifier. 2,652,513, Sept. 15.

Hollins, Jesse E., Brooklyn, N. Y. Directional signal system. 2,652,553, Sept. 15.

Hoover, Guy A., Fort Wayne, Ind. Hernia truss. 2,652,051, Sept. 15.

Hornfeck, Anthony J., Lyndhurst, Ohio, assignor to Bailey Meter Company. Antihunt electrical measuring system. 2,652,524, Sept. 15.

Horton, Erwin C., Hamburg, assignor to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner system. 2,651,801, Sept. 15.

Hosking, Oakley W., Monroe, N. Y. Rubber tire valve. 2,652,067, Sept. 15.

Houdaille-Hershey Corporation, assignee: *See*—
De Lancey, Warren H., and Vincent.

Houseman, Henry M.: *See*—
Samsky, Abraham, and Houseman.

Howard, John C., Weybridge, England, assignor to The Ohio Crankshaft Company, Cleveland, Ohio. Electric Induction heating apparatus. 2,652,478, Sept. 15.

Howard, Stanley R., Milton, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Container forming and filling machine. 2,651,897, Sept. 15.

Howenstine, James A., assignor to Neon Products, Inc., Lima, Ohio. Sign structure. 2,651,863, Sept. 15.

Howenstine, James A., assignor to Neon Products, Inc., Lima, Ohio. Sign construction. 2,651,864, Sept. 15.

Howenstine, James A., assignor to Neon Products, Inc., Lima, Ohio. Sign structure. 2,651,865, Sept. 15.

Hoyle, Albert C., and H. Knutson, assignors to Lake Shore Engineering Company, Iron Mountain, Mich. Winch. 2,652,230, Sept. 15.

Hudson, Monie S., Spartanburg, S. C. Removing excess impregnant from impregnated wood. 2,652,347, Sept. 15.

Huebner, Ernest W., Detroit, Mich., assignor to Weiger Weed & Company. Welding electrode holder. 2,652,472, Sept. 15.

Hueso, Honorio V., Mexico City, Mexico. Theft-preventing arrangement for motorcars. 2,652,852, Sept. 15.

Huff, Norman M., assignor to Harper-Wyman Company, Chicago, Ill. Locking stem adjustment valve. 2,652,226, Sept. 15.

Hughes, George E., Columbus, assignor to Surface Combustion Corporation, Toledo, Ohio. Cross lighter and removable port-forming grid. 2,652,107, Sept. 15.

Hunt, Clayton E., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Facsimile apparatus for repeat copies. 2,652,448, Sept. 15.

Hunt, Theodore M., and T. L. Nichols, Tulsa, Okla., said Hunt assignor to said Nichols. Self-releasing fishing rod tool. 2,652,281, Sept. 15.

Hunter Fan and Ventilating Company, assignee: *See*—
Buttner, Carl M.

Hunter, Melvin J., Midland, Mich., and E. J. Smith, Hasbrouck Heights, N. J., assignors to Dow Corning Corporation, Midland, Mich. Siloxane resins. 2,652,385, Sept. 15.

Hurst, Earl O., Douglaston, N. Y. Shiftable engine and propeller mounting for auxiliary powered sailboats. 2,652,019, Sept. 15.

Hydrocarbon Research, Inc., assignee: *See*—
Benedict, Manson.

Iddings, Charles E., Petaluma, Calif. Dairy feeder. 2,652,026, Sept. 15.

Imperial Chemical Industries Limited, assignee: *See*—
Chadwick, Richard, and Hobbs.

Incinerator Products Company, assignee: *See*—
Willett, George H., Jr., and Vroman.

Industrial Accountancy Partnership Limited, assignee: *See*—
Bihaly, Lajos.

Industrial Rayon Corporation, assignee: *See*—
Eidman, Albert W., and Wilkells, McLellan, Kenneth M.

Ingulis, David, Mountainside, and J. W. Anderson, Westfield, assignors to Airtron, Inc., Linden, N. J. Removable contactor connection plug. 2,652,549, Sept. 15.

Innes, Theodore J., Jr.: *See*—
Rees, Kenneth A., Innes, and L. M. and R. W. Williams.

Institut de Recherches pour les Huiles de Palme et Oleagineux, assignee: *See*—
Blaizot, Pierre.

International Nickel Company, Inc., The, assignee: *See*—
Hignett, Harold W. G.

International Paper Company, assignee: *See*—
Wallenius, George W.

Interpatenta-Trust, assignee: *See*—
Rothmayr, Joseph.

Interstate Bag Company, Inc., assignee: *See*—
Steen, Harford K., and Thompson.

Ischinger, Eric, Sr., Reading, Pa. Hand device for selectively dispensing and locating small elements. 2,652,012, Sept. 15.

Isecke, Kurt D.: *See*—
Tjomsland, Eli H., and Isecke.

Isenberg, Ruolf A.: *See*—
Snook, Walter B., and Isenberg.

Islip, Leonard, Kincote, near Rugby, and S. W. H. Perry, Knighton, assignors to Power Jets (Research and Development) Limited, London, England. Turbine bearing cooling means. 2,652,294, Sept. 15.

Ivers-Lee Company, assignee: *See*—
O'Meara, John R.

Jack & Heints, Inc.: *See*—
Gail, Stewart E.

Jack & Heints Precision Industries, Inc., assignee: *See*—
Pinter, George E.

Jackson, Corwill, assignor to Jackson Vibrators, Inc., Ludington, Mich. Paving machine, including means for spading at the sides of the forms. 2,651,979, Sept. 15.

Jackson, Donald R. P., assignor to Molins Machine Company Limited, Deptford, England. Compressor for cigarettes. 2,652,061, Sept. 15.

Jackson, Guy R.: *See*—
Melville, William S., and Jackson.

Jackson, John G., assignor to Square D Company, Detroit, Mich. Circuit breaker. 2,652,465, Sept. 15.

Jackson, John H., Columbus, Ohio, assignor, by mesne assignments, to Mathieson Chemical Corporation, New York, N. Y. Clad magnesium base alloys. 2,651,835, Sept. 15.

Jackson, Norman W., Deptford, London, assignor to Molins Machine Company Limited, London, England. Apparatus for feeding rodlike articles. 2,652,138, Sept. 15.

Jackson Vibrators, Inc., assignee: *See*—
Jackson, Corwill.

Jackson, William G.: *See*—
Ford, Jared H., and Jackson.

Jacobs, Frank: *See*—
Alder, Orin J., and Jacobs.

Jatunn, Franklin W., Sacramento, Calif. Adjustable cutter bar for lawn mowers. 2,651,904, Sept. 15.

Jeffery, Stephen J.: *See*—
Martin, Flyodd A., and Jeffery.

Jenkins, George F., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Gas fueled pilot burner having a bimetallic primary air valve. 2,652,108, Sept. 15.

Jenkins, Jack, and I. B. Beren, assignors to Frontier Manufacturing Company, Dallas, Tex. Shipping container for turbine wheels. 2,652,147, Sept. 15.

Jervis Corporation, assignee: *See*—
Anderson, Lloyd L.

Joers, Carl F., Los Angeles, Calif. Ear treating apparatus. 2,652,048, Sept. 15.

Johannsen, Hans C.: *See*—
Johannsen, Solvej, and H. C.

Johannsen, Solvej, and H. C. Johannsen, Battenberg (Eder), Germany. Belt sanding machine. 2,651,891, Sept. 15.

Johns, Henry S., Cleveland Heights, and W. H. Johns, Gates Mills, Ohio. Pin retaining means for bowling alleys. 2,652,253, Sept. 15.

Johns, William H.: *See*—
Johns, Henry S. and W. H.

Johnson, Arnold E., New Canada Township, Ramsey County, assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Tape applying movement. 2,652,166, Sept. 15.

Johnson, Arthur A., assignor to Automatic Devices Corporation, Bridgeport, Conn. Cigar lighter. 2,652,477, Sept. 15.

Johnson, Carl A. P., assignor to S. H. Couch Company, Inc., North Quincy, Mass. Cover securing means for wall boxes. 2,652,171, Sept. 15.

Johnson, Charles S.: *See*—
Johnson, Leonard G. and C. S.

Johnson, Clyde W., Islington, Mass., assignor, by mesne assignments, to A. B. Dick Company, Niles, Ill. Sheet controlled rotary printing press. 2,651,990, Sept. 15.

Johnson, Elmer L., assignor to Bell & Howell Company, Chicago, Ill. Automatic sheet separating and feeding mechanism. 2,652,248, Sept. 15.

Johnson, Leonard G. and C. S., Springfield, Oreg. Removable sink dividing partition. 2,651,784, Sept. 15.

Johnson, Stephen I., assignor to Hastings Manufacturing Company, Hastings, Mich. Spark plug. 2,652,043, Sept. 15.

Johnston, John G., Los Angeles, Calif. Tail pipe terminal silencer. 2,652,127, Sept. 15.

Johnston Lawn Mower Corporation, assignee: *See*—
Wilkin, Ellsworth D.

Johnstone, Warren W., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Alkylation process. 2,652,434, Sept. 15.

Jones, Jean E., assignor to Eastman Kodak Company, Rochester, N. Y. Setting protein containing coatings with ammonium. 2,652,343, Sept. 15.

Jones, John A., Baltimore, Md. Coupling. 2,652,270, Sept. 15.

Jones, Robert C.: *See*—
Woods, Harold A., and Jones.

Jones, Robert C., Berkeley, and R. J. Wall, Concord, assignors to Shell Development Company, San Francisco, Calif. Preparing lubricating grease compositions. 2,652,366, Sept. 15.

Joy, Joseph F., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Pumping head and operating mechanism for wells. 2,651,914, Sept. 15.

Joy Manufacturing Company, assignee: *See*—
Baechli, George.
Joy, Joseph F.
Simpson, James H.

Judd, H. L., Company, assignee: *See*—
Dubiell, Edward J.

Kagan, Benjamin S., deceased, by E. E. and Z. S. Kagan, Rock Island, Ill., heirs, assignors to American Machine and Metals, Inc., New York, N. Y. Folding machine controls. 2,652,246, Sept. 15.

Kagan, Esther E., heir: *See*—
Kagan, Benjamin S.

Kagan, Zena S., heir: *See*—
Kagan, Benjamin S.

Kalichman, Miriam: *See*—
Stiefel, Mona, and Kalichman.

Kalikow, Irving Swampscott, C. L. Willey and J. W. Poole, Lynn, Mass., assignors to General Electric Company. Alternator and exciter combination. 2,652,507, Sept. 15.

Kalning, Frederick E.: *See*—
Wanzer, Arthur W., Way, and Kalning.

Kampa Company, Inc., assignee: *See*—
Kampa, George L.

Kampa, George L., assignor to Kampa Company, Inc., Minneapolis, Minn. Rearview mirror mounting. 2,652,221, Sept. 15.

Kane Chain Company, Incorporated, assignee: *See*—
Kane, John F.

Kane, Gideon, Green Bay, Wis. Feed mechanism for carton blank forming apparatus. 2,652,247, Sept. 15.

Kane, John F., assignor to Kane Chain Company, Incorporated, Fall River, Mass. Dual wheel aligning ring for vehicles. 2,652,091, Sept. 15.

Kaye, Irving A., Brooklyn, assignor to Endo Products, Inc., Richmond Hill, N. Y. N-substituted-2-amino (methyl) quinolines. 2,652,398, Sept. 15.

Kearful, Godfrey G., Saginaw, assignor to General Motors Corporation, Detroit, Mich. Electric windshield wiper. 2,651,802, Sept. 15

Kearney, Joseph W., Dorchester, and W. R. Rambo, Cambridge, Mass., assignors to the United States of America as represented by the Secretary of War. Method and means for wide band frequency modulation. 2,652,539, Sept. 15.

Kearns, Charles M., Jr., Wethersfield, Conn., and G. T. Lampton, Culver City, Calif., assignors to United Aircraft Corporation, East Hartford, Conn. Hollow propeller blade with bulbed core. 2,652,121, Sept. 15.

Kearns, Charles M., Jr., Wethersfield, assignor to United Aircraft Corporation, East Hartford, Conn. Blade retention means with increased stiffness. 2,652,123, Sept. 15.

Keller, Ernst, New York, N. Y., assignor to Machine Tool Works Oerlikon, Administration Company, Zurich, Oerlikon, Switzerland. Track shifting and adjusting device for magnetic sound recorders and reproducers. 2,652,259, Sept. 15.

Kelley, Oliver K., Birmingham, and W. S. Wolfram, Walled Lake, assignors to General Motors Corporation, Detroit, Mich. Rotary hydraulic torque converter with dynamic braking. 2,651,918, Sept. 15.

Kelly, Thomas N., assignor of G. W. Smith, doing business as Smith-Morris Company, Ferndale, Mich. Retractable screen for the air intake of jet engines and shields or shutters for the same. 2,652,131, Sept. 15.

Kennedy, Earl M., Cleveland, Ohio. Hobbyhorse. 2,651,880, Sept. 15.

Kennedy, Verne C., Jr., assignor to Streeter-Amet Company, Chicago, Ill. Predetermined counter. 2,652,198, Sept. 15.

Kent, John B., Hoey, Saskatchewan, and C. C. Zimmerman, Regina, Saskatchewan, Canada. Automatic heater for internal-combustion engines. 2,652,042, Sept. 15.

Kent-Moore Organization, Inc., assignee: *See*—
Graham, George M.

Kernahan, John J. J., Whippany, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Mounting apparatus. 2,651,833, Sept. 15.

Kerr, William J., Warren, Ohio. Means for use in stenciling and the like. 2,651,989, Sept. 15.

Key, Ellis W., Eastside, Oreg., assignor of one-half to E. R. Mandle, Seattle, Wash. Fishing vessel. 2,651,874, Sept. 15.

Keyes, Grafton H., and L. G. S. Brooker, assignors to Eastman Kodak Company, Rochester, N. Y. Biscyanine dyes and preparation. 2,652,396, Sept. 15.

Kiefer, Emil, Pforzheim, Germany, assignor to R. A. Kiefer, Elberon, N. J. Expansible link strap. 2,651,909, Sept. 15.

Kiefer, Richard A., assignee: *See*—
Kiefer, Emil.

Kiehl, Royal D., and R. E. Wagenhals, assignors to The Timken Roller Bearing Company, Canton, Ohio. Roundness checking gauge. 2,651,845, Sept. 15.

Kilgore, George H., New Castle, Pa. Power-driven fountain brush. 2,651,795, Sept. 15.

Kimball, Wallace D., Middle Haddam, Conn., assignor, by mesne assignments, to Emhart Manufacturing Company. Apparatus for packing and sealing shipping cases. 2,651,898, Sept. 15.

King, Geo. W., Limited, assignee: *See*—
Burrows, Arthur T. C.

Kirkwood Commutator Company, assignee: *See*—
Klym, Julius.

Kise, Mearl A., Portsmouth, Va., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Production of solutions of formaldehyde-urea reaction products. 2,652,377, Sept. 15.

Kisskalt, Adam J., Grosse Pointe, assignor to Mechanical Handling Systems Inc., Detroit, Mich. Oven drier. 2,651,849, Sept. 15.

Klein, Clarence J., Weirton, W. Va., assignor to National Steel Corporation. Conductor roll for apparatus for electrolytically treating strip. 2,652,461, Sept. 15.

Kletsky, Milton J., Albany, N. Y. Paint spray mask for auto tires. 2,652,023, Sept. 15.

Kline, Kenneth H., Oak Ridge, Tenn, assignor to the United States of America as represented by the United States Atomic Energy Commission. Apparatus for measuring liquid level. 2,651,940, Sept .15.

Klym, Julius, assignor to Kirkwood Commutator Company, Cleveland, Ohio. Commutator blank and making commutators. 2,651,834, Sept. 15.

Knapp, Seth R., Elk City, Okla. Hydraulically actuated fishing tool for reclaiming broken drill parts, etc., from wells. 2,652,119, Sept. 15.

Knott, Edward B.: *See*—
Albert, Per, and Knott.

Knowles, Hugh S., River Forest, Ill., assignor to Zenith Radio Corporation. Headband for hearing aid transducers. 2,652,457, Sept. 15.

Knudsen, Hans L., assignor to Cummins Engine Company, Inc., Columbus, Ind. Fuel feeding apparatus for internal-combustion engines. 2,652,041, Sept. 15.

Knutson, Harry: *See*—
Hoyle, Albert C., and Knutson.

Kock, Winston E., Basking Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Unipolarized wave refractor. 2,652,493, Sept. 15.

Koertge, Nobel H.: *See*—
Furnas, William C., and Koertge.

Kohler, Marvin C., and W. H. Todd, Merced, Calif. Fishing lure. 2,651,876, Sept. 15.

Koll, Andrew J.: *See*—
Windsor, Walter E., and Koll.

Kopti-Kat Company, assignee: *See*—
Hannum, Charles M.

Kraus, Max R.: *See*—
Glass, Marvin I., Ehemann, and Kraus.

Kutzler, Robert J., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Safety device. 2,652,065, Sept. 15.

Lagardère, Alberto, assignor to J. B. Tivollier, Barcelona, Spain. Power indicating apparatus for internal-combustion engines or motors provided with governor. 2,652,046, Sept. 15.

Lagemann, Robert J., Brooklyn, N. Y. Container closure having spring biased slidable dispensing valve. 2,652,177, Sept. 15.

Laible, Ray A., assignor of one-half to Henney Motor Company, Inc., Freeport, Ill. Automobile door hinge. 2,651,805, Sept. 15.

Laidig, Alfred H., Bloomfield, and G. S. Evans, Montclair, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Arcuate discharge lamp and socket. 2,652,483, Sept. 15.

Lake Shore Engineering Company, assignee: *See*—
Hoyle, Albert C., and Knutson.

Lampton, Glen T.: *See*—
Kearns, Charles M., Jr., and Lampton.

La Mulle, Bernie P., New Orleans, La., assignor to The Texas Company, New York, N. Y. Pipe handling device. 2,652,160, Sept. 15.

Landis Tool Company, assignee: *See*—
Rocks, Hugh N.

Landrey, Leo R., Lynbrook, and A. Maxsel, Richmond Hill, N. Y., assignors, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Gas discharge device, 2,652,510, Sept. 15.

Lants, Brice H., assignor to Lants Manufacturing Company, Inc., Valparaiso, Ind. Tire traction clamp. 2,652,092, Sept. 15.

Lants Manufacturing Company, Inc., assignee: *See*—
Lants, Brice H.

Lash, Charles C., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Marine seismometer spread. 2,652,550, Sept. 15.

Lau Blower Company, The, assignee: *See*—
Wilken, Carl E., and McGladrey.

Law, Peter L.: *See*—
Skillman, Thomas S., and Law.

Lawrence, Richard B., Detroit, Mich. Dustpan. 2,651,924, Sept. 15.

Lawrence, Richard B., Detroit, Mich. Crumb tray. 2,651,925, Sept. 15.

Lay, Willard V., assignor to E. C. Haas, Denver, Colo. Catamenial device. 2,652,056, Sept. 15.

Leavenworth, Edgar K., Birmingham, Mich., assignor to Climax Molybdenum Company, New York, N. Y. Die for extruding compressed powder rods. 2,651,952, Sept. 15.

Lecher, Hans Z., Plainfield, and K. C. Whitehouse, Somerville, N. J., assignors to American Cyanamid Company, New York, N. Y. Preparation of anthraquinone compounds. 2,652,408, Sept. 15.

Lee, Jim, New York, N. Y. Folding armchair. 2,652,100, Sept. 15.

Leggett, Guy O., Los Angeles, assignor to Merit Products, Inc., Culver City, Calif. Flexible abrasive wheel. 2,651,894, Sept. 15.

Leggett, Jasper R.: *See*—
Schaufelberger, William M., Herrick, and Leggett.

Legus, Paul L., Tacoma, Wash. Filter. 2,652,151, Sept. 15.

Leigh, Robert L., assignor to Air Control Products, Inc., Coopersville, Mich. Grille. 2,652,133, Sept. 15.

Leitz, Ernest, G. m. b. H., assignee: *See*—
Rösch, Siegfreid.

Lester, Lawson L., Jr., Martinsville, Va. Doorframe. 2,651,814, Sept. 15.

Levy, Morris, Philadelphia, Pa. Automatic and manually operated multiple switch fire alarm station. 2,652,463, Sept. 15.

Levy, Maurice M., assignor to The General Electric Company Limited, London, England. Thermionic valve integrating circuits. 2,652,490, Sept. 15.

Levy, Morris, Philadelphia, Pa. Automatic and manually operated fire alarm signal station. 2,652,468, Sept. 15.

Lewandoski, Anton N., Detroit, Mich. Matrix assembly stick. 2,652,145, Sept. 15.

Lewis, Ernest D., and R. M. Luckring, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Heat exchange apparatus. 2,652,037, Sept. 15.

Lewis, Fred P., Enid, Okla. Animal boot with adhesive tape securing means. 2,651,853, Sept. 15.

Libbey-Owens-Ford Glass Company, assignee: *See*—
Cordier, David E., and Williams.

Lighter, Stephen, Whitefish Bay, Wis., assignor to Sutherland Paper Company, Kalamazoo, Mich. Shirt packaging device. 2,652,146, Sept. 15.

Lime, Ermal J., assignor to Lymean Manufacturing Co., Inc., Kansas City, Mo. Cream dispensing apparatus for coffee-making and dispensing machines. 2,652,176, Sept. 15.

Lindberg, Caryl A., Glendale, and H. W. Eckles, assignors to The Emerson Electric Manufacturing Company, St. Louis, Mo. Ventilating fan. 2,652,193, Sept. 15.

Lindhagen, Teodor I.: *See*—
Boestad, Gustav K. W., and Lindhagen.

Lindsay, Ezra R., Salt Lake City, Utah. Brush and dispensing cabinet. 2,652,306, Sept. 15.

Lionel Corporation, The, assignee: *See*—
Bonanno, Joseph L.

Lipic, Sylvester G., Sappington, and H. R. Morrow, assignors to Ritepoint Co., St. Louis, Mo. Ornamental device for pyrophoric lighters. 2,651,870, Sept. 15.

Pipic, Sylvester G., Sappington, assignor to Ritepoint Co., St. Louis, Mo. Refill unit for ball-point pens. 2,652,032, Sept. 15.

Litton, Charles V., Redwood City, Calif. Simplitron magnetron. 2,652,316, Sept. 15.

Lomax, Clarence E., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Conversation timing controlled in linefinders and repeaters. 2,652,455, Sept. 15.

Lombardi, William A., Derby, Conn. Brush comprising brush strips and holder therefor. 2,651,798, Sept. 15.

Lombardi, William A., Derby, Conn. Brush. 2,651,799, Sept. 15.

Longfellow, Melvin E., Manchester, assignor to United Aircraft Corporation, East Hartford, Conn. Propeller pitch stop system. 2,652,122, Sept. 15.

Longino, Hugh A., O'Donnell, Tex. Balloon stick. 2,651,879, Sept. 15.

Longoria, Antonio, Cleveland, Ohio. Loom and actuation means for loom shuttles. 2,652,073, Sept. 15.

Lorens, Roy H.: *See*—
Bond, Donald C., and Lorens.

Lott, William A., Maplewood, and F. H. Bergeim, Highland Park, N. J., assignors to Mathieson Chemical Corporation, New York, N. Y. N-(C mercapto-pyrimidyl)-P-aminobenzenesulfonamides. 2,652,395, Sept. 15.

Lotter, Minna: *See*—
Lotter, William and M.

Lotter, William and M., St. Louis, Mo. Pressure cooker. 2,652,170, Sept. 15.

Loucks, George E., Belle River, Ontario, Canada. Step-ladder. 2,652,184, Sept. 15.

Loving, William L., Pampa, Tex., assignor to Godfrey L. Cabot, Inc., Boston, Mass. Manufacture of furnace carbon black. 2,652,313, Sept. 15.

Lubrizol Corp., The, assignee: *See*—
Craig, Willis G.

Lucas, Joseph E., assignor of thirteen-twentieths to R. T. Wells, and one-twentieth to J. S. T. McDowell, Longview, Tex. Square hole drilling bit. 2,652,084, Sept. 15.

Luck, Lucille D., Lima, Pa., and G. K. Norby, assignors to Strato Equipment Company, Minneapolis, Minn. Combined sealing medium and cuff for an artificial respirator housing opening. 2,652,047, Sept. 15.

Luckring, Richard M.: *See*—
Lewis, Ernest D., and Luckring.

Lum, James, San Francisco, Calif. Manipulative mixer. 2,652,236, Sept. 15.

Lundqvist, Ragnar: *See*—
Gynt, Sven E., Poulsen, and Lundqvist.

Lush, Morley J., assignor to Rawson Electrical Instrument Company, Cambridge, Mass. Gaussmeter. 2,652,533, Sept. 15.

Lymean Manufacturing Co., Inc., assignee: *See*—
Lime, Ermal J.

Lynden, Charles P., Detroit, Mich. Painting and decorating. 2,651,871, Sept. 15.

Lyon, George A., Detroit, Mich. Wheel structure. 2,652,286, Sept. 15.

Lyon, George A., Detroit, Mich. Wheel structure. 2,652,287, Sept. 15.

Lyth, John J., Valleyfield, Quebec, Canada. Pump. 2,651,997, Sept. 15.

M & M Manufacturing Corporation, assignee: *See*—
Gumpertz, Donald G., and Alexander.

Machine Tool Works Oerlikon, Administration Company, assignee: *See*—
Keller, Ernst.

MacLean-Fogg Lock Nut Company, assignee: *See*—
Doke, Ernest G.

Magarian, Masick C., Fresno, Calif. Bearing mount for disk plows. 2,652,291, Sept. 15.

Maher, Richard A., and C. C. Pfitzer, assignors to Avco Manufacturing Corporation, Cincinnati, Ohio. Color pulse selector circuit. 2,652,491, Sept. 15.

Main, Robert C., Boston, Mass., assignor to Robertshaw-Fulton Controls Company, Greensburg, Pa. Diaphragm valve control. 2,652,110, Sept. 15.

Mallina, Rudolph F., Hastings on Hudson, N. Y., and J. M. Melick, Croeskill, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Perforating system. 2,652,116, Sept. 15.

Mallinson, John H., Front Royal, and C. J. Geyer, Jr., Cedarville, Va., assignors to American Viscose Corporation, Wilmington, Del. Rotary disk type homogenizing mill. 2,652,201, Sept. 15.

Mallinson, John H., Front Royal, and C. J. Geyer, Jr., Cedarville, Va., assignors to American Viscose Corporation, Wilmington, Del. Homogenizing mill. 2,652,202, Sept. 15.

Mallory, Marion, Detroit, Mich. Shielded circuit breaker. 2,652,462, Sept. 15.

Mandle, Earle E., assignee: *See*—
Key, Ellis W.

Manley, Humes B., Powell, Wyo. Bubble tray water decanter. 2,652,238, Sept. 15.

Mannes, Günter, Remscheid, assignor to F. Aug. Honsemknovel, Remscheid-Bliedinghausen, Germany. Sawing, cutting, and rasping tool for woodworking. 2,652,075, Sept. 15.

Marble, Jarvis C., trustee, assignee: *See*—
Boestad, Gustav K. W., and Lindhagen.

Markovich, George, Akron, Ohio. Washing and drying machine. 2,651,892, Sept. 15.

Marnon, Donald E., Phillipsburg, N. J., and F. C. Snowden, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Wetting test device. 2,651,936, Sept. 15.

Marsden, George B., Chicago, assignor to Chicago Nipple Manufacturing Company, Cicero, Ill. Feed mechanism for nipple threading machines and the like. 2,651,791, Sept. 15.

Martin, Flyodd A., and S. J. Jeffery, St. Catharines, Ontario, Canada, assignors to General Motors Corporation, Detroit, Mich. Balancing machine. 2,651,937, Sept. 15.

Marwil, Stanley J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Adsorption-stripping separation system. 2,652,437, Sept. 15.

Marz, Robert D., Valley Stream, N. Y. Gasoline tank truck valve. 2,652,070, Sept. 15.

Master Appliance Mfg. Co., assignee: *See*—
Meltzer, Rudolph L. and H. E.

Matheisel, Rudolph A., Tilton, N. H. Inverse rotor. 2,652,505, Sept. 15.

Mathieson Chemical Corporation, assignee: *See*—
Jackson, John H.
Lott, William A., and Bergeim.

Matsen, Ralph S.: *See*—
Van Degrift, Thomas C., Gadd, and Matsen.

Mattikow, Morris, New York, N. Y., assignor to B. Clayton, doing business under the fictitious name and style of Refining, Unincorporated. Fractionation of black grease. 2,652,412, Sept. 15.

Mazer, Jacob, Germantown, Pa. Sound-absorbing structure. 2,652,128, Sept. 15.

Mazzei, Alfred: *See*—
Landrey, Leo R., and Mazzei.

McCabe, John J.: *See*—
Menard, Clifford G., and McCabe.

McCarthy, John F., assignee: *See*—
Stevens, Carl L.

McCartney, Earl, Rockville Centre, and G. J. Watt, Uniondale, assignors to The Sperry Corporation, Great Neck, N. Y. Reversible servo apparatus. 2,652,523, Sept. 15.

McCleary, Rush F.: *See*—
Conary, Robert E., and McCleary.

McCormick, William E., New York, N. Y. Resetting device for clinical thermometers. 2,651,943, Sept. 15.

McCowan, David A., Toronto, Ontario, Canada. Collapsible valve for dispensing apparatus and the like. 2,652,222, Sept. 15.

McCrossen, Fred C., S. M. Parmerter, and A. Weissberger, assignors to Eastman Kodak Company, Rochester, N. Y. Color couplers containing isophthalic acid radicals. 2,652,329, Sept. 15.

McCutcheon, Brunson S., assignee: *See*—
Griffin, Dana A.

McDowell, John S. T., assignee: *See*—
Lucas, Joseph E.

McEvoy, James E., East Cleveland, Ohio, assignor to Bailey Meter Company. Gas analyzing devices. 2,652,315, Sept. 15.

McFerran, Frank A., Pittsburgh, Pa. Water heater fittings. 2,652,358, Sept. 15.

McGee, James D., London, assignor to Electric & Musical Industries Limited, Hayes, England. Negative charge image television transmission tube. 2,652,515, Sept. 15.

McGladrey, Lyle L.: *See*—
Wilken, Carl E., and McGladrey.

McKay, Alexander S.: *See*—
Herzog, Gerhard, and McKay.

McKee, James H.: *See*—
Dryden, Ian G. C., and McKee.

McKee, James H., Ashtead, assignor to C. U. R. A. Patents Limited, Leatherhead, Surrey, England. Manufacture of solid materials consisting of aggregated solid particles. 2,652,318, Sept. 15.

McLellan, Kenneth M., assignor to Industrial Rayon Corporation, Cleveland, Ohio. After-treating viscose threads advancing in a helical path. 2,652,311, Sept. 15.

McMaster, Elmer L.: *See*—
Bauman, William C., and McMaster.

Meakin, Edgar N., Hillsborough, Calif. Die-bowl assembly. 2,652,007, Sept. 15.

Mechanical Handling Systems Inc., assignee: *See*—
Kiselkalt, Adam J.

Mechur, Berthold, and W. Riedler, New York, N. Y. Shoulder pad molding apparatus. 2,651,809, Sept. 15.

Meckler, Samuel, St. Paul, Minn. Gripper for printing presses. 2,651,991, Sept. 15.

Mees, John, Sr., Chicago, Ill. Rolling pin. 2,652,009, Sept. 15.

Meisel, Seymour L.: *See*—
Hartough, Howard D., Dickert, and Meisel.

Melick, John M.: *See*—
Mallina, Rudolph F., and Melick.

Melstrom, Donald S., and F. J. Watson, Oakland, assignors to Shell Development Company, San Francisco, Calif. Lubricating oil composition. 2,652,368, Sept. 15.

Meltzer, Henry E.: *See*—
Meltzer, Rudolph L. and H. E.

Meltzer, Rudolph L. and H. E., assignors to Master Appliance Mfg. Co., Racine, Wis. Impeller wheel. 2,652,190, Sept. 15.

Melville, William S., and G. R. Jackson, Rugby, England, assignors to The British Thomson-Houston Company Limited. Pulse generating circuit. 2,652,502, Sept. 15.

Melvin, Roy: *See*—
Pianfetti, John A., Melvin, and Earle.

Menard, Clifford G., Shrewsbury, and J. J. McCabe, assignors to The Heald Machine Company, Worcester, Mass. Machine for finishing pistons. 2,651,832, Sept. 15.

Merit Products, Inc., assignee: *See*—
Leggett, Guy O.

Merrick, Richard H., assignor to Carrier Corporation, Syracuse, N. Y. Bearing construction. 2,652,228, Sept. 15.

Merrill, Leslie M., trustee, assignee: *See*—
Boestad, Gustav K. W., and Lindhagen.

Metallgesellschaft Aktiengesellschaft, assignee: *See*—
Nüsslein, Joseph.

Metcalf, Earl H., Ridgefield Park, N. J. Refillable eraser device. 2,652,029, Sept. 15.

Metzger, William J., East Cleveland, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Buffer mechanism for railway vehicles. 2,652,159, Sept. 15.

Michael, Vesta F., Wichita, Kans., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Recovery of organic oxygenated compounds. 2,652,415, Sept. 15.

Milford Shoe Co., assignee: *See*—
Sherbrook, Victor A.

Miller, Arthur J., Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission. Temperature measurement. 2,652,497, Sept. 15.

Miller, Glenn C., Portland, Oreg. Vehicle mud flap. 2,652,266, Sept. 15.

Miller, John M., Jr., Baltimore, assignor to Bendix Aviation Corporation, Towson, Md. Amplifier with positive and negative feedback. 2,652,458, Sept. 15.

Miller, Naomi L., Rochelle, Ill., assignor of 33⅓% to N. Showalter, Madison, and 33⅓% to J. D. Sammarco, Milwaukee, Wis. One-piece bathing suit. 2,651,780, Sept. 15.

Miner, Floyd E., Lombard, and E. C. Murbach, assignors to Stewart-Warner Corporation, Chicago, Ill. Odometer resetting mechanism. 2,652,199, Sept. 15.

Minit-Man, Inc., assignee: *See*—
Rousseau, Leo J.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Jenkins, George F.
Kutzler, Robert J.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Johnson, Arnold E.
Tenge, William P.

Minter, Clarke C., Washington, D. C., assignor to Foxboro Company, Foxboro, Mass. Linear response vapor pressure thermometer. 2,651,942, Sept. 15.

Mohring, Herman H., Omaha, Nebr. Combined fuse and indicator. 2,652,466, Sept. 15.

Moler, Charles C., assignor to Overhead Door Corporation, Hartford City, Ind. Safety catch for vertically sliding doors. 2,651,817, Sept. 15.

Molinar, Alfonso, Mexico City, Mexico. Golf indicator apparatus. 2,652,251, Sept. 15.

Molins Machine Company Limited, assignee: *See*—
Jackson, Donald R. P.
Jackson, Norman W.

Monsanto Chemical Company, assignee: *See*—
Bandekis, Costas H.
Fields, Joseph E.
Hedrick, Ross M., and Mowry.
Mowry, David T., and Hedrick.

Montooth, George A., Long Beach, Calif., assignor to The Brunswick-Balke-Collender Company. Spring clutch and brake. 2,652,134, Sept. 15.

Moody, John L., Oakland, and E. A. Davis, Hayward, Calif., assignors to Friden Calculating Machine Co., Inc. Overload relief for electric motors. 2,652,527, Sept. 15.

Moore, John D., Long Branch, Ontario, and B. S. Wood, Toronto, Ontario, assignors to A. V. Roe Canada Limited, Malton, Ontario, Canada. Aircraft control system. 2,652,526, Sept. 15.

Moore, Robert J., Oakland, and J. N. Wilson, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Manufacture of grease compositions. 2,652,365, Sept. 15.

Moorhouse, Courtney E.: *See*—
Thomas, John B., and Moorhouse.

Mork, George W., assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Landside end connection for bulldozer blades. 2,651,860, Sept. 15.

Morlani, Asturio: *See*—
Villa, Carlo, and Morlani.

Morris, Charles L., Greenwich, Conn. Rake. 2,652,279, Sept. 15.

Morrison, Ella P., executrix: *See*—
Morrison, Samuel O.

Morrison, John F., Boonton, assignor to Rowe Manufacturing Co., Inc., Whippany, N. J. Electronic coin totalizer. 2,652,136, Sept. 15.

Morrison, Samuel O., deceased, Media, Pa.; E. P. Morrison, executrix of said S. O. Morrison, assignor to Sunroc Refrigeration Company, Dover, Del. Valve. 2,652,071, Sept. 15.

Morrow, Horrell R.: *See*—
Lipic, Sylvester G., and Morrow.

Motorola, Inc., assignee: *See*—
Anthony, Myron L., and Virkus.

Mowry, David T.: *See*—
Hedrick, Ross M., and Mowry.

Mowry, David T., and R. M. Hedrick, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Conditioning agricultural soil and growing plants therein. 2,651,886, Sept. 15.

Mowry, David T., and R. M. Hedrick, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Herbicides. 2,652,323, Sept. 15.

Muchmore, Robert B., Hawthorne, Calif., assignor to The Sperry Corporation. Coaxial line connector. 2,652,544, Sept. 15.

Mullaney, Ralph A., Chicago, Ill., assignor to Zenith Radio Corporation. Record aforing and ejecting mechanism for phonographs. 2,652,257, Sept. 15.

Mullins, Herbert G., Park Ridge, Ill. Knife cradle. 2,651,927, Sept. 15.

Murbach, Edward C.: *See*—
Miner, Floyd E., and Murbach.

Murray, Alan E., New York, N. Y. Making embossed article and product thereof. 2,652,352, Sept. 15.

Murray, Alfred S.: *See*—
Fulmgren, Per G., and Murray.

Mutual Machine Company, assignee: *See*—
Cahill, John J.

Mysels, Karol J., assignor of one-half to L. L. Salton, New York, N. Y. Adhesive tape dispenser. 2,652,115, Sept. 15.

Nadasdy, Henry H.: *See*—
Peterson, Vincent C., and Nadasdy.

Nahmens, Donald R., Milwaukee, Wis. Pump motor controller. 2,651,996, Sept. 15.

Nash-Kelvinator Corporation, assignee: *See*—
Yaeger, Luther L.

National Malleable and Steel Castings Company, assignee: *See*—
Metzger, William J.

National Research Development Corporation, assignee: *See*—
Williams, Frederic C., and West.

National Steel Corporation, assignee: *See*—
Klein, Clarence J.

Negola, Carmine, Garwood, N. J., assignor to Drumboy, Inc. Liner support and closure for acid resistant drums. 2,652,172, Sept. 15.

Negri, Frank G., assignor to Noel Precision Corporation, Jamaica, N. Y. Roller skate wheel. 2,652,285, Sept. 15.

Nelson, Arthur J.: *See*—
Risch, Arthur H., and Nelson.

Nelson, Clinton G., and E. W. Hayden, North Richland, Wash. Temporary outlet box mounting for use with concrete forms. 2,652,165, Sept. 15.

Neon Products, Inc., assignee: *See*—
Howenstine, James A.

Nesbitt, John D., Sylvania, assignor to Surface Combustion Corporation, Toledo, Ohio. Skid rail structure for forge furnaces. 2,652,240, Sept. 15.

Neuhart, Frederick C., and G. A. Gohlke, Bartlesville, Okla., assignors to Phillips Petroleum Company. Hydrocarbon separation. 2,652,489, Sept. 15.

Newland, Isaac A., Duluth, Minn. Life line for boats. 2,651,789, Sept. 15.

Newton, Charles G., Jr., Newburyport, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe upper provided with protective spray cover and forming same. 2,651,856, Sept. 15.

Nichols, Nathaniel B., Wellesley, and J. P. Aloisio, Somerville, assignors to Raytheon Manufacturing Company, Newton, Mass. Electric motor control. 2,652,525, Sept. 15.

Nichols, Troy L.: *See*—
Hunt, Theodore M., and Nichols.

Nickson, Philip T., East Braintree, assignor to Raytheon Manufacturing Company, Newton, Mass. Correction device for function generators. 2,652,195, Sept. 15.

Niehaus, Roy R.: *See*—
Heitman, Clarence H., and Niehaus.

Nielsen, A. C., Company, assignee: *See*—
Scherbatskoy, Serge A.

Nilsson, Tore R., Bromma, and K. E. Sandegren, Stockholm, Sweden. Making available the bitter substances from hops. 2,652,333, Sept. 15.

Nocht, Helmut E. B., Brooklyn, N. Y. Camera support means for photographic tripods. 2,652,220, Sept. 15.

Noel Precision Corporation, assignee: *See*—
Negri, Frank G.

Noland, Wayne B., assignor to Woodford Hydrant Company, Des Moines, Iowa. Improvement in wall hydrant of the nonfreezing type. 2,652,224, Sept. 15.

Norby, Gertrude K.: *See*—
Luck, Lucille D., and Norby.

Nordmark, Walter E., assignor to American Seating Company, Grand Rapids, Mich. Folding chair. 2,652,096, Sept. 15.

North American Aviation, Inc., assignee: *See*—
Hoffman, James D.

Norton Company, assignee: *See*—
Comstock, George E., 3d.
Teague, Ernest D.

Novak, Isador J., Trumbull, Conn., assignor to Raybestos-Manhattan, Inc., Passaic, N. J. Asbestos dispersions. 2,652,325, Sept. 15.

Nüsslein, Joseph, assignor to Metallgesellschaft Aktiengesellschaft, Frankfurt am Main, Germany. Surface active media. 2,651,829, Sept. 15.

Nu-Way Corporation, The, assignee: *See*—
Westphal, Leslie C.

Oberman, Roelof M. M., The Hague, Netherlands. Release signal for telegraph systems. 2,652,446, Sept. 15.

Ocean City Manufacturing Company, assignee: *See*—
Holahan, Joseph M., Jr.

Ogle, James A., Phoenixville, Pa., assignor to The Sperry Corporation. Making stereoscopic pictures. 2,652,236, Sept. 15.

Ohio Crankshaft Company, The, assignee: *See*—
Howard, John C.
Sorensen, Phillips N.

Olcott, Harold S., Berkeley, and T. W. Campbell, Orinda, Calif., assignors to the United States of America as represented by the Secretary of Agriculture. Stabilization of lipoidal substances. 2,652,332, Sept. 15.

Olson, Hans P., Racine, Wis. Weedless hook and lure. 2,651,877, Sept. 15.

O'Meara, John R., Scotch Plains, assignor to Ivers-Lee Company, Newark, N. J. Package memo pad. 2,652,149, Sept. 15.

Osborne, Mark J.: *See*—
Shea, Lindsey W., and Osborne.

Osgood, Walter P., Malden, assignor to Boston Machine Works Company, Lynn, Mass. Cementing machine for flexible material having a worktable and extended guide rolls. 2,652,022, Sept. 15.

Oswalt, George L., Forest Park, Ill. Endless chain and means of making same. 2,652,142, Sept. 15.

Oswalt, George L., Forest Park, Ill. Vibrating mechanism. 2,651,827, Sept. 15.

Oswego Falls Corporation, assignee: *See*—
Wilcox, Isaac L., and Cole.

Otto, Carl L., Jr., Lummi, Wash. Integrating compass. 2,651,842, Sept. 15.

Ouloubojian, Michael, Upper Darby, Pa. Collar retaining device. 2,651,782, Sept. 15.

Overhead Door Corporation, assignee: *See*—
Moler, Charles C.

Owens Brush Company, assignee: *See*—
Snyder, Austin B.

Pacific Car and Foundry Company, assignee: *See*—
Schou, Carl E.

Pacific Transducer Corporation, assignee: *See*—
Argabrite, George A.

Pack, Herschel G., Santa Barbara, Calif. Thermoelectric generator. 2,652,503, Sept. 15.

Palmgren, Per G., Philadelphia, and A. S. Murray, Morristown, assignor to SKF Industries, Inc., Philadelphia, Pa. Multirow cylindrical roller bearing. 2,652,296, Sept. 15.

Paper Patents Company, assignee: *See*—
Sabee, Reinhardt N.

Parmerter, Stanley M.: *See*—
McCrossen, Fred C., Parmerter, and Weissberger.

Parsons and Marine Engineering Turbine Research and Development Association, assignee: *See*—
Yates, Henry G.

Patterson, Edgar W., Downey, Calif. Hydraulic time compensator. 2,651,945, Sept. 15.

Pattyn, Pierre P., Detroit, Mich. Educational musical instrument. 2,651,960, Sept. 15.

Payne, Clarence E., San Francisco, Calif. Photographic dye solution. 2,652,343, Sept. 15.

Perfect Circle Corporation, assignee: *See*—
Estey, Melvin E.

Perfect Knit Togs, Inc., assignee: *See*—
Siegel, Philip G., and Stein.

Perfection Stove Company, assignee: *See*—
Cleveland, Allen E.

Perkin-Elmer Corporation, The, assignee: *See*—
Scott, Roderic M.

Perranit, Ainslie, assignor to J. L. Culbertson, Tulsa, Okla. Pipe line strainer. 2,652,153, Sept. 15.

Perry, Sydney W. H.: *See*—
Islip, Leonard, and Perry.

Peters, Melville F., East Orange, N. J. Sealing of fluid systems. 2,652,223, Sept. 15.

Peterson, Albin K., Redondo Beach, Calif. Cabinet construction. 2,652,308, Sept. 15.

Peterson, Edward T., Reading, assignor to Birdsboro Steel Foundry and Machine Company, Birdsboro, Pa. End roll adjustment. 2,651,986, Sept. 15.

Peterson, Howard C., Sioux Falls, S. Dak. Dental clamp. 2,651,841, Sept. 15.

Peterson, Vincent C., Carney, Mich., and H. H. Nadasdy, assignors to Harper-Wyman Company, Chicago, Ill. Locking stem adjustment valve. 2,652,225, Sept. 15.

Petkau, Abraham: *See*—
Danroth, Edward J., and Petkau.

Petro, Joseph, Garfield Heights, Ohio. Fire extinguishing apparatus for homes. 2,652,068, Sept. 15.

Petro-Ite Corporation, assignee: *See*—
De Groote, Melvin.

Pfeifer, George T., Lake Geneva, Wis., assignor to The Edwal Laboratories, Inc., Chicago, Ill. Combination package. 2,652,148, Sept. 15.

Pfitzer, Christian C.: *See*—
Maher, Richard A., and Pfitzer.

Pfizer, Chas. & Co., Inc., assignee: *See*—
Umbdenstock, Robert R.

Phillips, Campbell C., Dayton, Ohio. Closure remover with container gripping means. 2,651,957, Sept. 15.

Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Piston knurling machine. 2,651,953, Sept. 15.

Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Spark plug. 2,652,044, Sept. 15.

Phillips, Harry, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for coating back seams of shoe uppers. 2,652,021, Sept. 15.

Phillips, Lewis H., Marblehead, Mass., assignor to Self-Aligning Bearing Company, Inc. Self-aligning bearing. 2,652,293, Sept. 15.

Phillips Petroleum Company, assignee: *See*—
Blackburn, Charles W.
Gilmore, Forrest E.
Graham, Benton L.
Marwil, Stanley J.
Neuhart, Frederick C., and Gohlke.
Simms, Russell K.

Pianfetti, John A., South Charleston, W. Va., R. Melvin, Dobbs Ferry, N. Y., and H. H. Earle, Jr., Belle Glade, Fla., assignors to Food Machinery and Chemical Corporation, New York, N. Y. Fumigant compositions containing completely halogenated bromochloromethanes having at least two chlorine atoms. 2,652,337, Sept. 15.

Piazzolla, Giovanni, assignee: *See*—
Villa, Carlo, and Morlani.

Pickwick Company, assignee: *See*—
Pitts, Robert D.

Picon, Josue R., assignor to General Motors Corporation, Detroit, Mich. Windshield wiper. 2,651,800, Sept. 15.

Piliero, James, Astoria, N. Y., assignor to The Englander Company, Inc., Chicago, Ill. Foldable bed frame. 2,651,787, Sept. 15.

Pinter, George E., assignor to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Flywheel magneto. 2,652,504, Sept. 15.

Pitts, Robert D., assignor to Pickwick Company, Cedar Rapids, Iowa. Poultry scalding apparatus. 2,651,807, Sept. 15.

Plastodent, Inc., assignee: *See*—
Fink, Arthur.

Pneumatic Scale Corporation, Limited, assignee: *See*—
Howard, Stanley R.

Polly, Orville L.: *See*—
Cunningham, Orin D., and Polly.

Poole, John W.: *See*—
Kalikow, Irving, Willey and Poole.

Porte, René, assignor to Société pour l'Union des Transports Ferroviaires et Routiers, Paris, France. Scotching arrangement, especially for the scotching of rolling loads on railway trucks. 2,652,003, Sept. 15.

Porter-Cable Machine Company, assignee: *See*—
Sacrey, Elmer P.

Porser, Ralph E., Bloomfield, N. J., and A. P. Baruch, Stamford, Conn., assignors to Celanese Corporation of America. Cellulose propionate gel lacquer composition and applying. 2,652,346, Sept. 15.

Posture Research Institute, Inc., assignee: *See*—
Wood, Glenn D.

Potash Company of America, assignee: *See*—
Weinig, Arthur J.

Potter, Ethel L., St. Louis, Mo. Curtain support. 2,652,155, Sept. 15.

Poulsen, Vagn: *See*—
Gynt, Sven E., Poulsen, and Lundqvist.

Power Jets (Research and Development) Limited, assignee: *See*—
Islip, Leonard, and Perry.

Prent, Jan, Amsterdam, Netherlands. Device for removing layers of paint. 2,652,104, Sept. 15.

Presler, James L., Van Wert County, Ohio. Machine for planting grass and clover seed. 2,652,261, Sept. 15.

Prew, Howard A., Providence, R. I., assignor to Pru-Lesco, Inc. Picture frame holder. 2,651,867, Sept. 15.

Price, Harold W., Bradenton, Fla., assignor to Bendix Aviation Corporation, South Bend, Ind. Transmission operating mechanism. 2,651,948, Sept. 15.

Procter & Gamble Company, The, assignee: *See*—
Woodruff, George M., and Heitlage.

Prohaska, James J.: *See*—
Burnett, Alexander H., and Prohaska.

Pru-Lesco, Inc., assignee: *See*—
Prew, Howard A.

Prayborowski, Stanislaus, Kenmore, assignor to Fedders-Quigan Corporation, Buffalo, N. Y. Automotive type cellular radiator core. 2,652,233, Sept. 15.

Pulp Reproduction Company, assignee: *See*—
Risch, Arthur H., and Nelson.

Pure Oil Company, The, assignee: *See*—
Bond, Donald C., and Lorens.

Rausch, Maynard S., and C. W. Tullock, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Polyamide containing beta carbonamido-alpha-amino-propionic acid units. 2,652,389, Sept. 15.

Radio Corporation of America, assignee: *See*—
Robinson, Harris A.
Tourshou, Simeon I.

Rambo, William R.: *See*—
Kearney, Joseph W., and Rambo.

Rambo, William R., Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War. Reactance tube circuit. 2,652,538, Sept. 15.

Randall, David I.: *See*—
Solonen, Nicholas W., and Randall.

Rathborne, Mervyn R., Half Moon Bay, Calif. Detachable electrical connector having terminal clamping means. 2,652,547, Sept. 15.

Rawson Electrical Instrument Company, assignee: *See*—
Lush, Morley J.

Ray, William A., North Hollywood, assignor to General Controls Co., Glendale, Calif. Gas burner control system. 2,652,109, Sept. 15.

Raybestos-Manhattan, Inc., assignee: *See*—
Novak, Isador J.

Raytheon Manufacturing Company, assignee: *See*—
Nichols, Nathaniel B., and Aloisio.
Nickson, Philip T.
Spencer, Percy L.

Reed, Anne E., assignee: *See*—
Reed, Maurice J.

Reed, Maurice J., assignor of three-eighths to A. E. Reed, and two-eighths to T. J. Eurell, II, Middletown Township, Monmouth County, N. J. Ball-point pen. 2,652,031, Sept. 15.

Reed, Wade R., Tulsa, Okla. Vertical weld L cutting and beveling machine. 2,652,243, Sept. 15.

Rees, Kenneth A., T. J. Innes, Jr., and L. M. and R. W. Williams, Baton Rouge, La., assignors to Standard Oil Development Company. Reactor inlet. 2,652,317, Sept. 15.

Refining, Unincorporated, assignee: *See*—
Mattikow, Morris.

Remington Rand Inc., assignee: *See*—
Sterling, John L.

Reynolds, Harold C., Jr.: *See*—
Griswold, Stanley M., and Reynolds.

Riedler, Walter: *See*—
Mechur, Berthold, and Riedler.

Rinse, Jacobus, Bernardsville, N. J. Epoxide resins heated with vegetable oils in the presence of steam. 2,652,376, Sept. 15.

Risch, Arthur H., and A. J. Nelson, Wauwatosa, assignors to Pulp Reproduction Company, Milwaukee, Wis. Molded decoy. 2,651,873, Sept. 15.

Ritepoint Co., assignee: *See*—
Lipic, Sylvester G.
Lipic, Sylvester G., and Morrow.

Riza, Thomas H., Cleburne, assignor to F. Stokes, Dallas, Tex. Cotton stripping machine. 2,651,908, Sept. 15.

Robertshaw-Fulton Controls Company, assignee: *See*—
Main, Robert C.

Robinson, Harris A., Philadelphia, Pa., assignor to Radio Corporation of America. Discriminator circuits. 2,652,489, Sept. 15.

Rocks, Hugh N., assignor to Landis Tool Company, Waynesboro, Pa. Indexing device. 2,651,895, Sept. 15.

Rockwell, Hugh M., Freeport, N. Y. Wheel support with a circumferentially and axially movable toolholder. 2,652,078, Sept. 15.

Roe, A. V., Canada Limited, assignee: *See*—
Moore, John D., and Wood.

Roepke, Edward C., Elmore, Ohio. Beet harvester. 2,651,901, Sept. 15.

Rogers, Frank A.: *See*—
Berzof, Harold, and Rogers.

Roop, Nathan W., assignor to Columbus Plastic Products, Inc., Columbus, Ohio. Water-holding and dispensing receptacle. 2,652,283, Sept. 15.

Roosevelt, Oliver W., New York, N. Y. Rotary turbine type torque converter for varying speed ratios. 2,651,920, Sept. 15.

Rösch, Siegfried, assignor to E. Leitz, G. m. b. H., Wetzlar, Germany. Instrument for producing colors by means of polarization. 2,651,971, Sept. 15.

Rosenthal, Robert W., Poughkeepsie, assignor to The Texas Company, New York, N. Y. Preparing alkanoic acids. 2,652,413, Sept. 15.

Roske, Milton H., Malden, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Skiving machine. 2,651932, Sept. 15.

Rothmayr, Joseph, Zurich, Switzerland, assignor to Interpatenta-Trust, Vaduz, Principality of Liechtenstein. Wash fountain. 2,652,284, Sept. 15.

Roto-Matic Screen Printer, Ltd., assignee: *See*—
Thomas, John B., and Moorhouse.

Roubloff, Alexander D.: *See*—
Baehr, Sylvester C., and Roubloff.

Rousseau, Leo J., Grosse Pointe Park, assignor to Minit-Man, Inc., Detroit, Mich. Rotary brush. 2,651,797, Sept. 15.

Rowe Manufacturing Co., Inc., assignee: *See*—
Gabrielsen, Christian.
Morrison, John F.

Rubinstein, Robert, Brooklyn, N. Y. Automatic edge grinding machine for lenses. 2,651,890, Sept. 15.

Rudge, Thomas R., Timperley, Altrincham, assignor to The General Electric Company Limited, London, England. Apparatus for measuring the thickness of non-magnetizable coatings on magnetizable materials. 2,651,846, Sept. 15.

Rueckert, Dean E.: *See*—
Hensgen, Bernard T., and Rueckert.

Rupp, Warren E., assignor to The Gorman-Rupp Company, Mansfield, Ohio. Pumping apparatus and pumping fluids. 2,652,181, Sept. 15.

Russell, Burdsall & Ward Bolt and Nut Company, assignee: *See*—
Gibney, Joseph W.

Ruts, Charles D., San Diego, Calif. Three-dimensional checker or chess game board. 2,652,255, Sept. 15.

S-B Manufacturing Company, assignee: *See*—
Schulz, Alfred J.

SKF Industries, Inc., assignee: *See*—
Palmgren, Per Gunnar, and Murray.

Sabee, Reinhardt N., Appleton, assignor to Paper Patents Company, Neenah, Wis. Journal bearing. 2,652,292, Sept. 15.

Sacrey, Elmer P., assignor to Porter-Cable Machine Company, Syracuse, N. Y. Template for lock plate mortises. 2,651,847, Sept. 15.

Safety Crank Company, The, assignee: *See*—
Cole, Mark H.

St. Pierre, Paul L., assignor to Hemphill Company, Pawtucket, R. I. Knitting. 2,651,929, Sept. 15.

Salton, Lewis L., assignee: *See*—
Mysels, Karol J.

Sammarco, James D., assignee: *See*—
Miller, Naomi L.

Samsky, Abraham, and H. M. Houseman, Detroit, Mich. Adjustable headrest. 2,652,101, Sept. 15.

Samuelsen, Beatrice L., Ketchikan, Alaska. Heating attachment for electric food mixers. 2,652,285, Sept. 15.

Sandegren, Knut E.: *See*—
Nilsson, Tore R., and Sandegren.

Sands, Charles, Kenyon, Minn. Ensilage distributor. 2,652,288, Sept. 15.

Sapp, Ancel L., Blackwell, Okla., assignor to The American Metal Company, Limited, New York, N. Y. Device for cleaning grate bars of sintering machines. 2,652,242, Sept. 15.

Sasser, Travis M., Terrace Park, assignor to Shipping Room Suppliers, Inc., Cincinnati, Ohio. Electrical stapler. 2,651,775, Sept. 15.

Säuberlich, Willy, assignor to Goebel Aktiengesellschaft, Darmstadt, Germany. Web printing press. 2,651,992, Sept. 15.

Sayko, Andrew F., and J. R. Briggs, Westfield, N. J., assignors to Standard Oil Development Company. Compositions of a premilled butadiene-acrylonitrile copolymer and a nonrubbery thermoplastic synthetic resin. 2,652,384, Sept. 15.

Schaefer, Edward E., Oak Park, Ill. Venetian blind head rail assembly. 2,652,113, Sept. 15.

Scharmann, Walter G.: *See*—
Sweetser, Sumner B., and Scharmann.

Schaufelberger, William M., Whittier, H. N. Herrick, Berkeley, and J. R. Leggett, Los Angeles, assignors to California Research Corporation, San Francisco, Calif. Apparatus for determining magnetic properties of well cores. 2,652,531, Sept. 15.

Schaumer, Theo B., Los Angeles, Calif. Brassière having cups made from elastic material. 2,651,779, Sept. 15.

Scherbatskoy, Serge A., Tulsa, Okla., assignor to A. C. Nielsen Company, Chicago, Ill. System and apparatus for determining the listening habits of wave signal receiver users. 2,652,310, Sept. 15.

Schetzer, Charles H., Goodland, Kans. Footrest for automotive vehicle drivers. 2,651,944, Sept. 15.

Schlueter, Ernest, Troy, N. Y. Lawn edge trimmer and weed puller. 2,651,905, Sept. 15.

Schlueter, Ernest, Troy, N. Y. Weed cutter. 2,651,907, Sept. 15.

Schneider, Max S., Chicago, Ill. Supporting means used in connection with electroplating racks. 2,652,359, Sept. 15.

Schoeller, Charles H., San Diego, Calif. Surgical arm support. 2,652,050, Sept. 15.

Schou, Carl E., Seattle, assignor to Pacific Car and Foundry Company, Renton, Wash. Fourteen-speed planetary transmission. 2,651,950, Sept. 15.

Schulken, Roger M., Jr., and R. E. Boy, Jr., Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Copolymers of alpha-methylstyrene and alpha-methacrylonitrile. 2,652,391, Sept. 15.

Schulz, Alfred J., assignor to A. J. and H. H. Schulz, copartners doing business under the name and style of S-B Manufacturing Company, Milwaukee, Wis. Christmas tree stand. 2,652,217, Sept. 15.

Schulz, Herbert H., assignee: *See*—
Schulz, Alfred J.

Schwanda, Theodore F.: *See*—
Brown, Clarence J., and Schwanda.

Schwartz, Irving H., Philadelphia, Pa. Lock for storm sash. 2,651,818, Sept. 15.

Schwindt, Jack, assignor of fifty per cent to K. W. Schwindt, Fort Morgan, Colo. Ditching plow adjustment mechanism. 2,651,858, Sept. 15.

Schwindt, Katherine W., assignee: *See*—
Schwindt, Jack.

Sciarrillo, Cayetano E. N.: *See*—
Sciarrillo, Nicholás H. C., C. E. N., and R. H.

Sciarrillo, Nicolás H. C., C. E. N., and R. H., Buenos Aires, Argentina. Folding chair. 2,652,099, Sept. 15.

Sciarrillo, Reinaldo H.: *See*—
Sciarrillo, Nicholás H. C., C. E. N., and R. H.

Scott, Roderic M., Stamford, assignor to The Perkin-Elmer Corporation, Glenbrook, Conn. Thermocouple. 2,652,442, Sept. 15.

Seeger Refrigerator Company, assignee: *See*—
Swedman, Enoch., and Strobush.

Seismograph Service Corporation, assignee: *See*—
Hawkins, James E.

Self-Aligning Bearing Company, Inc., assignee: *See*—
Phillips, Lewis H.

Seyffarth, Richard, Long Island City, N. Y. Hair curler and key. 2,652,063, Sept. 15.

Shafer, Homer J., assignor to The Shafer Valve Co., Mansfield, Ohio. Pressure fluid actuated valve operating mechanism. 2,652,033, Sept. 15.

Shafer Valve Co., The, assignee: *See*—
Shafer, Homer J.

Shanklin, John P., assignor to Collins Radio Company, Cedar Rapids, Iowa. Dipole antenna and feed arrangement therefor. 2,652,492, Sept. 15.

Shaw-Walker Company, The, assignee: *See*—
Burdick, John S.

Shea, Lindsey W., and M. J. Osborne, assignors to The Union Metal Manufacturing Company, Canton, Ohio. Tote box stack construction. 2,652,174, Sept. 15.

Sheehan, William M.: *See*—
Travilla, James C., Jr., and Sheehan.

Shell Development Company, assignee: *See*—
Adelson, David E.
Finch, Harry de V., and Ballard.
Jones, Robert C., and Wall.
Melstrom, Donald S., and Watson.
Moore, Robert J., and Wilson.
Woods, Harold A., and Bollinger.
Woods, Harold A., and Jones.

Sherbrook, Victor A., assignor to Milford Shoe Co., Milford, Mass. Insole having separate attached sewing ribs. 2,651,855, Sept. 15.

Sherry, William G., Tulsa, Okla. Antijackknife fifth wheel coupling. 2,652,262, Sept. 15.

Shio, Cheng, New York, N. Y. Combined cigarette and igniting means. 2,652,060, Sept. 15.

Shipping Room Suppliers, Inc., assignee: *See*—
Sasser, Travis M.

Shook, Alvin L., Dallas, Tex. Toothbrush case. 2,652,064, Sept. 15.

Showalter, Norine, assignee: *See*—
Miller, Naomi L.

Shultz, Andrew, Jr., Buffalo, assignor to Allied Chemical & Dye Corporation, New York, N. Y. Preparation of sulfonation products. 2,652,427, Sept. 15.

Shure Brothers, Incorporated, assignee: *See*—
Bauer, Benjamin B.

Siegel, John A., Detroit, Mich. Multiple leaf palette. 2,651,868, Sept. 15.

Siegel, Philip G., Flushing, and M. Stein, assignors to Perfect Knit Togs, Inc., New York, N. Y. Infant's garment. 2,652,057, Sept. 15.

Simmons, Orien W., assignor, by mesne assignments, to The Battelle Development Corporation, Columbus, Ohio. Electric arc melting furnace. 2,652,440, Sept. 15.

Simms, Russell K., Bartlesville, Okla., assignor to Phillips Petroleum Company. Carbon black pelleting. 2,652,344, Sept. 15.

Simonson, Sigvard, Butler, Pa., assignor, by mesne assignments, to Waugh Equipment Company, New York, N. Y. Cross-bearer construction for railway cars. 2,652,006, Sept. 15.

Simonson, Sigvard, Butler, Pa., assignor, by mesne assignments, to Waugh Equipment Company, New York, N. Y. Railway car construction. 2,652,158, Sept. 15.

Simpson, Clarence E., Wilbraham, Mass., assignor to the United States of America as represented by the Secretary of War. Breech locking mechanism. 2,651,974, Sept. 15.

Simpson, James H., St. Louis, Mo., assignor, by mesne assignments, to Joy Manufacturing Company, Pittsburgh, Pa. Cable entrance for sealed enclosures. 2,652,445, Sept. 15.

Sims, Jack W., New York, N. Y. Level. 2,651,848, Sept. 15.

Sinclair Oil and Gas Company, assignee: *See*—
Wisherd, Thomas G.

Sinclair Refining Company, assignee: *See*—
Gring, John L.

Singer Manufacturing Company, The, assignee: *See*—
Enos, John P.
Heggie, James.

Sjökvist, Erik: *See*—
Thielers, Gustav, and Sjökvist.

Skillman, Thomas S., Mosman, near Sydney, and P. L. Law, Roseville, near Sydney, assignors to Communication Engineering Pty. Limited, Cammeray, near Sydney, New South Wales, Australia. Article dispensing system. 2,652,301, Sept. 15.

Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Self-loading device for shaker conveyers. 2,652,144, Sept. 15.

Smeltser, Raymond F., R. B. Edwards, R. C. Baker, Jr., and S. D. Burton, Baltimore, assignors to Bendix Aviation Corporation, Towson, Md. Squelch circuit. 2,652,488, Sept. 15.

Smith, Dorothea J., Burbank, Calif. Infant's sleeping garment. 2,652,062, Sept. 15.

Smith, Drum & Company, assignee: *See*—
Drum, Harry S., and Dodson.

Smith, Earle J.: *See*—
Hunter, Melvin J., and Smith.

Smith, George W., assignee: *See*—
Kelly, Thomas N.

Smith-Morris Company, assignee: *See*—
Kelly, Thomas N.

Smith, Roy A., Oklahoma City, Okla. Pumping assembly. 2,652,231, Sept. 15.

Smith, Russell M., Ripley, N. Y., assignor to General Electric Company. Wheel slip protective system. 2,652,555, Sept. 15.

Smith, William F., Irvington, N. J., assignor to Curtiss-Wright Corporation. Apparatus for measuring the spray angle of a nozzle. 2,651,844, Sept. 15.

Snook, W. B., Mfg. Co., Inc., assignee: *See*—
Snook, Walter B., and Isenberg.

Snook, Walter B., and R. A. Isenberg, assignors to W. B. Snook Mfg. Co., Inc., Palo Alto, Calif. Apparatus for rapid X-ray exposures. 2,652,498, Sept. 15.

Snowden, Franklin C.: *See*—
Marnon, Donald E., and Snowden.

Snyder, Austin B., assignor to Owens Brush Company, Toledo, Ohio. Apparatus and method for molding brushes. 2,651,810, Sept. 15.

Societe Anonyme des Etablissements Roure-Bertrand Fils & Justin Dupont, assignee: *See*—
Crabalona, Laurent L.

Societe a Responsabilite Limitee dite: Hewittic, assignee: *See*—
Demontvignier, Marcel.

Société pour l'Union des Transports Ferroviaires et Routiers, assignee: *See*—
Porte, René.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Hartough, Howard D.
Hartough, Howard D., Dickert, and Meisel.

Solar Aircraft Company, assignee: *See*—
Hodgson, Grant B.
Zakarian, Arsham D.

Soloff, Milton, Flushing, N. Y. Internal carving machine. 2,631,975, Sept. 15.

Solonen, Nicholas W., and D. I. Randall, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. 2,2'-(2,5-lower dialkoxy-p-phenylene)-di-(anthra[2,1] thiazole-6,11-diones). 2,652,400, Sept. 15.

Sorensen, Phillips N., assignor to The Ohio Crankshaft Company, Cleveland, Ohio. Heating opposed edges of elongated members. 2,652,474, Sept. 15.

Sparks, Morgan: *See*—
Bond, Walter L., Sparks, and Teal.

Spencer, Percy L., West Newton, assignor to Raytheon Manufacturing Company, Newton, Mass. Microwave apparatus. 2,652,475, Sept. 15.

Sperry Corporation, The, assignee: *See*—
McCartney, Earl, and Watt.
Muchmore, Robert B.
Ogle, James A.

Sprung, Joseph A., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. High-speed silver dye bleachout taking and printing film. 2,652,328, Sept. 15.

Square D Company, assignee: *See*—
Jackson, John G.

Standard Brands Incorporated, assignee: *See*—
Barch, William E.

Standard Car Truck Company, assignee: *See*—
Christenson, Gust J.

Standard Oil Development Company, assignee: *See*—
Arendt, Harry S., and Abendroth.
Ballenger, James M.
Gleason, Anthony H.
Heigl, John J.
Holland, Hal H., Jr.
Rees, Kenneth A., Innes, and L. M. and R. W. Williams.
Sayko, Andrew F., and Briggs.
Sweetser, Sumner B., and Scharmann.
Williams, William A.

Stanolind Oil and Gas Company, assignee: *See*—
Lash, Charles C.
Michael, Vesta F.

Stayner, Richard D., Albany, assignor to California Research Corporation, San Francisco, Calif. Preparation of alkane phosphonic acids. 2,652,426, Sept. 15.

Stearns, Frank H., Meriden, and A. J. Thibault, Enfield, N. H., said Stearns assignor to said Thibault. Fastening device. 2,652,297, Sept. 15.

Steele, James W., North Kansas City, Mo. Garment folding apparatus. 2,652,178, Sept. 15.

Steen, Harford K., and H. L. Thompson, Newburgh, assignors to Interstate Bag Company, Inc., Walden, N. Y. Paper bag handle. 2,652,187, Sept. 15.

Steiger, Norbert, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Benzothiazole derivatives and production. 2,652,401, Sept. 15.

Stein, Martin: *See*—
Siegel, Philip G., and Stein.

Steinberg, Eliot, North Arlington, N. J., assignor to Warner-Hudnut, Inc., New York, N. Y. 1,2,3,10b-tetrahydrofluoranthene-10b-carboxylic acid. 2,652,417, Sept. 15.

Steps, Robert A.: *See*—
Hartman, William W., and Steps.

Sterland, Ernest G., Rugby, assignor to The English Electric Company Limited, London, England. Power plant having a common manual control for the fuel valves of the compressor and power turbines. 2,651,911, Sept. 15.

Sterling Drug Inc., assignee: *See*—
Clinton, Raymond O.

Sterling, John L., Bellerose, assignor to Remington Rand Inc., New York, N. Y. Wire recording storage mechanism for bookkeeping machines. 2,652,196, Sept. 15.

Stern, A. Richard, assignee: *See*—
Herzig, Leonard A., and Coan.

Stevens, Carl L., assignor of fifty per cent to J. F. McCarthy, Grand Island, Nebr. Display rack. 2,652,154, Sept. 15.

Stevens, George R., Albuquerque, N. Mex. Differential gearing. 2,651,946, Sept. 15.

Stewart-Warner Corporation, assignee: *See*—
Miner, Floyd E., and Murbach.

Stickney, Arwood D., Missoula, Mont. Garbage disposal unit. 2,652,163, Sept. 15.

Stiefel, Mona, and M. Kalichman, New York, N. Y. Fountain pen. 2,652,030, Sept. 15.

Stierlin, Hans, Zurich, Switzerland. Evaporator for refrigerating apparatus. 2,651,923, Sept. 15.

Stokes, Florene, assignee: *See*—
Riza, Thomas H.

Stough, Gerald D., Detroit, assignor to Whitehead & Kales Company, River Rouge, Mich. Cargo brace structure. 2,652,004, Sept. 15.

Stough, Gerald D., Detroit, assignor to Whitehead & Kales Company, River Rouge, Mich. Cargo brace structure. 2,652,005, Sept. 15.

Strato Equipment Company, assignee: *See*—
Luck, Lucille D., and Norby.

Streeter-Amet Company, assignee: *See*—
Kennedy, Verne C., Jr.

Strobush, Herman J.: *See*—
Swedman, Enoch, and Strobush.

Studders, Robert J., Schenectady, N. Y., assignor to General Electric Company. Composite sintered metal powder article. 2,652,520, Sept. 15.

Stull, Keefer S., Jr., Baltimore, assignor to Bendix Aviation Corporation, Towson, Md. Reactance system. 2,652,537, Sept. 15.

Sun Oil Company, assignee: *See*—
Hall, Chester L.
Hodges, James W.

Sunroc Refrigeration Company, assignee: *See*—
Morrison, Samuel O.

Surface Combustion Corporation, assignee: *See*—
Hughes, George E.
Nesbitt, John D.

Sutherland, Daniel M., Morrisville, Pa., assignor to L. M. and D. G. Sutherland, as trustees. Grinding disk. 2,651,976, Sept. 15.

Sutherland, Douglas G., trustee, assignee: *See*—
Sutherland, Daniel M.

Sutherland, Lionel M., trustee, assignee: *See*—
Sutherland, Daniel M.

Sutherland Paper Company, assignee: *See*—
Lighter, Stephen.

Swain, Harold S.: *See*—
Taber, Frederic H., and Swain.

Swedman, Enoch, and H. J. Strobush, assignors to Seeger Refrigerator Company, St. Paul, Minn. Service door for refrigerator display cases. 2,652,305, Sept. 15.

Sweeney, B. K., Mfg. Co., assignee: *See*—
Able, Edward T.

Sweetser, Sumner B., Cranford, and W. G. Scharmann, Westfield, N. J., assignors to Standard Oil Development Company. Water-gas generation. 2,652,319, Sept. 15.

Swift & Company, assignee: *See*—
Burnett, Alexander H., and Prohaska.
Hensgen, Bernard T., and Rueckert.

Sylvania Electric Products Inc., assignee: *See*—
Freeman, Walter C., Jr.
Graham, Robert E.
Walker, Richard M.

Taber, Frederic H., New Bedford, and H. S. Swain, Brockton, Mass. Ventilated shoe. 2,651,854, Sept. 15.

Taranto, Monroe, Ridgewood, N. J. Box transfer mechanism. 2,652,137, Sept. 15.

Taylor Bedding Manufacturing Co., assignee: *See*—
Forwood, David F.

Taylor, Samuel, Santa Monica, Calif. Pointed tool. 2,651,840, Sept. 15.

Teague, Ernest D., Welwyn Garden City, England, assignor to Norton Company, Worcester, Mass. Grinding wheel. 2,652,320, Sept. 15.

Teague, Ernest D., Welwyn Garden City, England, assignor to Norton Company, Worcester, Mass. Grinding wheel. 2,652,321, Sept. 15.

Teal, Gordon K.: *See*—
Bond, Walter L., Sparks, and Teal.

Teeter, Howard M., and J. C. Cowan, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture. Alkyl acyloxy stearates. 2,652,411, Sept. 15.

Teleflex Products Limited, assignee: *See*—
Bentley, James S.

Tenge, William P., St. Louis, Mo., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Floating inner sole binding gauge. 2,651,793, Sept. 15.

Terry, David E., and D. T. Warner, Minneapolis, Minn., assignors to General Mills, Inc. Preparation of saturated fatty acids of improved color and color stability. 2,652,414, Sept. 15.

Texas Company, The, assignee: *See*—
Arnold, George B., and Hess.
Conary, Robert E., and McCleary.
Hersog, Gerhard, and McKay.
Hess, Howard V., and Arnold.
La Mulle, Bernie P.
Rosenthal, Robert W.

Thibault, Arthur J.: *See*—
Stearns, Frank H., and Thibault.

Thielers, Gustav, and E. Sjökvist, assignors to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Low-frequency two-phase commutator machine. 2,652,508, Sept. 15.

Thirtle, John R.: *See*—
Weissberger, Arnold, and Thirtle.
Weissberger, Arnold, Thirtle, and Bent.

Thomas, John B., Watertown, and C. E. Moorhouse, Waterbury, Conn., assignors to Roto-Matic Screen Printer, Ltd., New York, N. Y. Stencil printing apparatus. 2,651,988, Sept. 15.

Thomas, Leonard L., Sacramento, Calif. Motion-picture projector cabinet. 2,651,987, Sept. 15.

Thomas, Wilbur H., Costa Mesa, Calif. Whip action device for the head of golf clubs. 2,652,256, Sept. 15.

Thompson, Harold L.: *See*—
Steen, Harford K., and Thompson.

Thompson, John M., Manchester, Iowa. Adjustable gate hinge. 2,651,806, Sept. 15.

Thompson Products, Inc., assignee: *See*—
Booth, James H., and Gair.
Booth, James H., and Warner.

Thompson, Ralph N., Mount Lebanon Township, Allegheny County, Pa., assignor to Calgon, Incorporated. Water resistant paper coatings and making same from urea-formaldehyde, ammonium metaphosphate, amylaceous material and clay. 2,652,374, Sept. 15.

Thomson, Judson L., Manufacturing Company, assignee: *See*—
Havener, Arthur R.

Thor, Edward J., San Francisco, Calif. Multipurpose microscope attachment. 2,651,969, Sept. 15.

Threads Incorporated, assignee: *See*—
Cone, Richard R.

Tiller, Hans, Zurich, Switzerland, assignor to Cycloptic Anstalt für Optik und Mechanik, Vaduz, Liechtenstein. Highly corrected image producing photographic objective system. 2,651,970, Sept. 15.

Timken Roller Bearing Company, The, assignee: *See*—
Kiehl, Royal D., and Wagenhals.

Timpe, Atwood M., Los Angeles, Calif. Tobacco smoking pipe. 2,652,062, Sept. 15.

Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Closure fastener. 2,652,273, Sept. 15.

Tinnerman Products, Inc., assignee: *See*—
Tinnerman, George A.

Tippa, Jake B., Laurel, Miss. Lumber hoist truck. 2,652,164, Sept. 15.

Tivollier, Juan B., assignee: *See*—
Lagardère, Alberto.

Tjomsland, Eli H., Maywood, and K. D. Isecke, Teaneck, assignors to Vibro Vita Products Co., Ridgefield Park, N. J. Cutting tip of composite construction. 2,652,105, Sept. 15.

Todd, Walter H.: *See*—
Kohler, Marvin C., and Todd.

Toledo Scale Company, assignee: *See*—
Hart, Norman E.
Williams, Lawrence S.

Tourshou, Simeon I., Philadelphia, Pa., assignor to Radio Corporation of America. Sync separation and automatic gain control. 2,652,450, Sept. 15.

Travilla, James C., Jr., Swarthmore, and W. M. Sheehan, Philadelphia, Pa., assignors to General Steel Castings Corporation, Granite City, Ill. Railway truck. 2,652,001, Sept. 15.

Trico Products Corporation, assignee: *See*—
Horton, Erwin C.

Tri-State Engineering Company, assignee: *See*—
Arthur, Oscar F.

Tritt, Harold J., assignor of fifty per cent to M. A. Tritt, Cheyenne, Wyo. Exhaust feed supply for engines. 2,652,040, Sept. 15.

Tritt, Marian A., assignee: *See*—
Tritt, Harold J.

Tullock, Charles W.: *See*—
Raasch, Maynord S., and Tullock.

Turpin, Elias B., Battle Creek, Mich. Sandwich cutting block. 2,652,087, Sept. 15.

Tuttle, Fordyce E., assignor to Eastman Kodak Company, Rochester, N. Y. Display sign and making the same. 2,651,866, Sept. 15.

Twin Disc Clutch Company, assignee: *See*—
Batten, Percy H.
Venstrom, Evert L.

Umbdenstock, Robert R., Brooklyn, assignor to Chas. Pfizer & Co., Inc., New York, N. Y. Coated rubber stopper and preparing same. 2,652,182, Sept. 15.

Union Metal Manufacturing Company, The, assignee: *See*—
Shea, Lindsey, West, and Osborne.

Union Oil Company of California, assignee: *See*—
Cunningham, Orin D., and Polly.

United Aircraft Corporation, assignee: *See*—
Kearns, Charles M., Jr.
Kearns, Charles M., Jr., and Lampton.
Longfellow, Melvin E.

United Mattress Machinery Co. Inc., assignee: *See*—
Wanser, Arthur W., Way, and Kaining.

United Shoe Machinery Corporation, assignee: *See*—
Newton, Charles G., Jr.
Phillips, Harry.
Roske, Milton H.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Cyr, Rob R.
Kline, Kenneth H.
Landrey, Leo R., and Mazzei.
Miller, Arthur J.

Universal Lubricating Systems, Inc., assignee: *See*—
Farrell, Richard R.

Universal Oil Products Company, assignee: *See*—
Johnstone, Warren W.

Upjohn Company, The, assignee: *See*—
Ford, Jared H., and Jackson.
Hanson, Frederick R., and Eble.

Urbain, Leon F., Chicago, Ill. Blackboard supporting structure. 2,651,852, Sept. 15.

Utz, Georg, Zurich, Switzerland. Device adapted to be secured to sewing machines for the production of zigzag seams. 2,652,015, Sept. 15.

Valpey, Arthur L., Plymouth, Mich. Toy. 2,651,851, Sept. 15.

Van Degrift, Thomas C., Detroit, C. W. Gadd, Orchard Lake, and R. S. Matsen, assignors to General Motors Corporation, Detroit, Mich. Combustion chamber pressure indicator. 2,652,517, Sept. 15.

Vanderhoof, Alton S., Maplewood, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Rectifier stack. 2,652,522, Sept. 15.

Van Doren, William L., Wenatchee, Wash. Chain conveyer. 2,652,143, Sept. 15.

Van Ramshorst, Steven G., Dordrecht, assignor to M. J. van Tongeren-Boers, Heemstede, Netherlands. Pulverized fuel burner. 2,652,011, Sept. 15.

Van Tongeren-Boers, Maria J., assignee: *See*—
Van Ramshorst, Steven G.

Van Wessem, Gijsbertus: *See*—
Ercoli, Nicholas, and van Wessem.

Varnum, Richard O., Fort Klamath, Oreg. Wheel tilting mechanism for automobiles. 2,652,263, Sept. 15.

Vawter, James A., Milan, Tenn. Cultivator attachment. 2,651,984, Sept. 15.

Venstrom, Evert L., Rockford, Ill., assignor to Twin Disc Clutch Company, Racine, Wis. Rotary hydraulic coupling. 2,651,919, Sept. 15.

Verburg, Robert M., Plainfield, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Golf ball. 2,652,254, Sept. 15.

Vibro Vita Products Co., assignee: *See*—
Tjomsland, Eli H., and Isecke.

Vigmostad, Trygve, assignor to Briggs Manufacturing Company, Detroit, Mich. Seat structure. 2,652,096. Sept. 15.

Vigren, Sten D., Stockholm, P. H. E. Claesson, Jakobsberg, and R. A. Zander, Stockholm, Sweden. Polarized relay. 2,652,464, Sept. 15.

Villa, Carlo, Meiso, and A. Moriani, assignors of one-half to G. Piazzolla, Milan, Italy. Shuttleless loom with continuous weft supply. 2,652,072, Sept. 15.

Vincent, Edwin E.: *See*—
De Lancey, Warren H., and Vincent.

Virkus, Robert M.: *See*—
Anthony, Myron L., and Virkus.

Von Hoorn, Fred G., and H. B. Bennett, Bridgeport, Conn., assignors to General Electric Company. Renewable with porous metal ends. 2,652,467, Sept. 15.

Vossi, Joseph J.: *See*—
Bonner, Edwin K., Jr., and Vossi.

Vroman, William R.: *See*—
Willett, George H., Jr., and Vroman.

Wacker-Chemie G. m. b. H., assignee: *See*—
Gruber, Wolfang, Heckmaier, and Zoebelein.

Waco Aircraft Company, The, assignee: *See*—
Brukner, Clayton J.

Wagenhals, Robert E.: *See*—
Kiehl, Royal D., and Wagenhals.

Wagner, E. R., Manufacturing Company, assignee: *See*—
Wagner, Robert S., Himes, and Duwe.

Wagner, Harry H.: *See*—
Dale, Colin B., Berg, and Wagner.

Wagner, Robert S., J. M. Hines, and A. J. Duwe, assignors to E. R. Wagner Manufacturing Company, Milwaukee, Wis. Carpet sweeper. 2,651,796, Sept. 15.

Walker, Brooks, Piedmont, Calif. Venetian blind. 2,652,111, Sept. 15.

Walker, Brooks, Piedmont, Calif. Venetian blind bottom weights. 2,652,112, Sept. 15.

Walker, Richard M., Dorchester, assignor to Sylvania Electric Products Inc., Salem, Mass. High-frequency testing apparatus. 2,652,535, Sept. 15.

Walker, Thomas G., Nishnabotna, Mo. Wagon hoist. 2,652,229, Sept. 15.

Wall, Robert J.: *See*—
Jones, Robert C., and Wall.

Wallace, Robert L., Jr., Plainfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transistor amplifier circuits. 2,652,460, Sept. 15.

Wallenius, George W., Turners Falls, Mass., assignor to International Paper Company, New York, N. Y. Core cap remover. 2,651,836, Sept. 15.

Wallman, Harold, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Continuous preparation of beaded phenolsulfonic acid-formaldehyde condensation product. 2,652,386, Sept. 15.

Walworth Company, assignee: *See*—
Davis, Ralph P.

Wanser, Arthur W., Hingham, D. G. Way, and F. E. Kalning, assignors to United Mattress Machinery Co. Inc., Quincy, Mass. Mattress tufting machine. 2,652,013, Sept. 15.

War, United States of America as represented by the Secretary of, assignee: *See*—
Kearney, Joseph W., and Rambo.
Rambo, William R.
Simpson, Clarence B.

Warner, Donald T.: *See*—
Terry, David E., and Warner.

Warner, Eldon C.: *See*—
Booth, James H., and Warner.

Warner-Hudnut, Inc., assignee: *See*—
Ercoli, Nicholas, and Van Wessem.
Steinberg, Eliot.

Warren, Eugene R., San Francisco, Calif. Rolling crutch. 2,652,097, Sept. 15.

Warstler, Walter H., assignor to The Garrett Corporation, Los Angeles, Calif. Valve. 2,651,985, Sept. 15.

Washburn, Harold W., assignor to Consolidated Engineering Corporation, Pasadena, Calif. Process monitor mass spectrometer minimizing high-voltage history effects. 2,652,495, Sept. 15.

Wassell, Frank L., assignor to G. P. Wassell, Westport, Conn. Index card and removable index tab. 2,652,050, Sept. 15.

Wassell, Georgene P., assignee: *See*—
Wassell, Frank L.

Watson, Forrest J.: *See*—
Meistrom, Donald S., and Watson.

Watt, Gordon J.: *See*—
McCartney, Earl, and Watt.

Waugh Equipment Company, assignee: *See*—
Simonson, Sigvard.

Way, David G.: *See*—
Wanser, Arthur W., Way, and Kalning.

Weast, Willie N., Silverton, Tex. Mechanical turn lift. 2,651,983, Sept. 15.

Weaver, Beatrice B., Yuba City, Calif. Film developing table. 2,651,982, Sept. 15.

Weaver, Eastman A., Winchester, assignor to Comstock & Wescott, Inc., Cambridge, Mass. Apparatus for measuring the contents of large tanks. 2,651,939, Sept. 15.

Webbeking, Carl, Cleveland, Ohio. Novelty fly swatter. 2,651,878, Sept. 15.

Webster-Chicago Corporation, assignee: *See*—
Dale, Colin B., Berg, and Wagner.

Weeks, Norman E., Normandy, assignor to Bemis Bro. Bag Company, St. Louis, Mo. Manufacture of articles, such as valved bags, made of waterproof laminated fabric. 2,652,088, Sept. 15.

Weeks, Robert W., West Chester, Pa., assignor to Wind Turbine Company. Rod joint or coupling. 2,652,274, Sept. 15.

Weiger Weed & Company, assignee: *See*—
Huebner, Ernest W.

Weinig, Arthur J., Golden, assignor to Potash Company of America, Denver, Colo. Froth flotation of sylvinite ore. 2,652,150, Sept. 15.

Weissberger, Arnold: *See*—
McCrossen, Fred C., Parmerter, and Weissberger.

Weissberger, Arnold, and J. R. Thirtle, assignors to Eastman Kodak Company, Rochester, N. Y. 4-amino-N,N-dialkyl-3-dialkylaminoanilines as developers for photographic silver halide emulsions. 2,652,331, Sept. 15.

Weissberger, Arnold, J. R. Thirtle, and R. L. Bent, assignors to Eastman Kodak Company, Rochester, N. Y. N - alkyl - N - (β-methylsulfonamidoethyl) - P - aminophenols. 2,652,428, Sept. 15.

Welding Research, Inc., assignee: *See*—
Berger, Jacques.

Wells, Edmund E., and E. R. West, Tulsa, Okla. Machine for compacting materials. 2,651,980, Sept. 15.

Wells, Richard T., assignee: *See*—
Lucas, Joseph E.

Wener, David L., Santa Ana, Calif. Rupturable crown cap. 2,652,165, Sept. 15.

Werner, John E., Columbiana, Ohio. Self-irrigating plant receptacle. 2,651,884, Sept. 15.

Weslake, Henry, St. Leonards-on-Sea, England. Supply system for combustible mixture for internal-combustion engines. 2,652,039, Sept. 15.

West, Everette R.: *See*—
Wells, Edmund E., and West.

West, John C.: *See*—
Williams, Frederic C., and West.

Western Union Telegraph Company, The, assignee: *See*—
Frost, Albert E.

Westinghouse Air Brake Company, assignee: *See*—
Gorman, Andrew T.

Westinghouse Electric Corporation, assignee: *See*—
Laidig, Alfred H., and Evans.

Weston, Donald E., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Arc chute with slotted and perforated barrier plates. 2,652,469, Sept. 15.

Westphal, Leslie C., Wauwatosa, Wis., assignor to The Nu-Way Corporation, Rock Island, Ill. Shield for transformer coils. 2,652,521, Sept. 15.

White, Eric L. C., Iver, assignor to Electric & Musical Industries, Hayes, England. Negative feed-back amplifier. 2,652,459, Sept. 15.

Whitehead & Kales Company, assignee: *See*—
Stough, Gerald D.

Whitehouse, Karl C.: *See*—
Locher, Hans Z., and Whitehouse.

Wicks, John, Biloxi, Miss., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Nonnumerical telephone switching arrangement. 2,652,456, Sept. 15.

Wiesner-Rapp Company, Inc., assignee: *See*—
Baehr, Sylvester C., and Roubloff.

Wilcox, Isaac L., Fulton, and N. S. Cole, Baldwinsville, assignors to Oswego Falls Corporation, Fulton, N. Y. Machine for securing end closures to container barrels. 2,651,977, Sept. 15.

Wilkelis, Andrew H.: *See*—
Eidman, Albert W., and Wilkelis.

Wilken, Carl E., Dayton, Ohio., and L. L. McGladrey, Cloquet, Minn., assignors to The Lau Blower Company, Dayton, Ohio. Apparatus for forming blower wheels. 2,651,830, Sept. 15.

Wilken, Carl E., Dayton, Ohio, and L. L. McGladrey, Cloquet, Minn., assignors to The Lau Blower Company, Dayton, Ohio. Apparatus for forming blower wheels. 2,651,837, Sept. 15.

Wilkin, Ellsworth D., assignor to Johnston Lawn Mower Corporation, Ottumwa, Iowa. Mower handle. 2,651,804, Sept. 15.

Willett, George H., Jr., Birmingham, and W. R. Vroman, assignors to Incinerator Products Company, Detroit, Mich. Chimney wall mounted incinerator. 2,652,010, Sept. 15.

Willetts, Elwood H., Douglaston, N. Y. Irrigation apparatus. 2,652,282, Sept. 15.

Willey, Chester L.: *See*—
Kalikow, Irving, Wiley, and Poole.

Williams, Frederick C., Timperley, and J. C. West, Hindley, assignors to National Research Development Corporation, London, England. Magnetic storage system for electronic binary digital computers. 2,652,554, Sept. 15.

Williams, Lawrence S., assignor to Toledo Scale Company, Toledo, Ohio. Strut platform support. 2,652,241, Sept. 15.

Williams, Leonard M.: *See*—
Rees, Kenneth A., Innes, and L. M. and R. W. Williams.

Williams, Robert F.: *See*—
Hiatt, Gordon D., and Williams.

Williams, Robert W.: *See*—
Rees, Kenneth A., Innes, and L. M. and R. W. Williams.

Williams, William A., Sarnia, Lambton, Ontario, Canada, assignor to Standard Oil Development Company. Liquid-liquid contacting apparatus. 2,652,316, Sept. 15.

Williams, William D.: *See*—
Cordier, David E., and Williams.

Wilson, Albert A., Chicago, Ill. Combined flashlight and mirror support. 2,652,479, Sept. 15.

Wilson, John H., Wichita Falls, Tex. Multiple engine coupling. 2,651,947, Sept. 15.

Wilson, John N.: *See*—
Moore, Robert J., and Wilson.

Wilson, Matthew W., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Adhesion of rubber to fiber. 2,652,353, Sept. 15.

Wilson, Volney C., Schenectady, N. Y., assignor to General Electric Company. Binary magnetic system. 2,652,501, Sept. 15.

Wind Turbine Company, assignee: *See*—
Weeks, Robert W.

Windsor, Walter E., Essex, and A. J. Koll, assignors to Bendix Aviation Corporation, Baltimore, Md. Humidity responsive device. 2,651,941, Sept. 15.

Winkler, Albert H., assignor to Bendix Aviation Corporation, South Bend, Ind. Multiple cylinder internal-combustion engine. 2,652,038, Sept. 15.

Wisherd, Thomas G., assignor, by mesne assignments, to Sinclair Oil and Gas Company, Tulsa, Okla. Breaking soap-thickened petroleum gels. 2,652,370, Sept. 15.

Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Shutter-governor assembly for motion-picture apparatus. 2,651,965, Sept. 15.

Wohlman, Beatrice, New York, N. Y. Maternity girdle. 2,651,778, Sept. 15.

Wolfram, William S.: *See*—
Kelley, Oliver K., and Wolfram.

Wollin, Morey E., Harrisburg, Pa. Rotary bearing construction. 2,652,295, Sept. 15.

Wolverton, Marcine P.: *See*—
Durant, Lyndon A., and Wolverton.

Wood, Bryan S.: *See*—
Moore, John D., and Wood.

Wood, Glenn D., assignor to Posture Research Institute, Inc. Elkhart, Ind. Seat post construction for chairs. 2,652,272, Sept. 15.

Wood, Joseph E., Toronto, Ontario, Canada. Folding ironing board. 2,651,861, Sept. 15.

Woodall Industries, Inc., assignee: *See*—
Greig, James W.

Woodford Hydrant Company, assignee: *See*—
Noland, Wayne B.

Woodruff, George M., and H. Heitlage, assignors to The Procter & Gamble Company, Cincinnati, Ohio. Container opening and positioning machine. 2,651,896, Sept. 15.

Woods, Harold A., and L. C. Bollinger, Martinez, assignors to Shell Development Company, Emeryville, Calif. Grease compositions. 2,652,361, Sept. 15.

Woods, Harold A., Martinez, and R. C. Jones, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Grease composition. 2,652,362, Sept. 15.

Woods, Harold A., and L. C. Bollinger, Martinez, assignors to Shell Development Company, Emeryville, Calif. Grease compositions. 2,652,363, Sept. 15.

Woods, Harold A., and L. C. Bollinger, Martinez, assignors to Shell Development Company, Emeryville, Calif. High-temperature grease compositions. 2,652,364, Sept. 15.

Woolsey, Sterling W., Houston, Tex. Combination reservoir energy and pumping equipment control. 2,652,000, Sept. 15.

Worthen, Richard P., Modesto, Calif. Convertible sawhorse and work support. 2,652,079, Sept. 15.

Wright, Mildred A., and D. E. Gates, Bevier, Mo. Restoration surgical breast. 2,651,783, Sept. 15.

Wright, Richard H., Bratenahl, assignor to The Guarantee Specialty Manufacturing Company, Cleveland, Ohio. Tape support for Venetian blinds. 2,652,114, Sept. 15.

Wyssen, Jakob, Reichenbach, Kandertal, Switzerland. Overhead log carrier. 2,652,157, Sept. 15.

Yaeger, Luther L., Hammond, Ind., assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Solution of cellulose acetate butyrate. 2,652,339, Sept. 15.

Yates, Henry G., Riding Mill, assignor to The Parsons and Marine Engineering Turbine Research and Development Association, Wallsend, England. Rotary hydraulic coupling for forward and reverse drive. 2,651,917, Sept. 15.

York Industries, a division of York Manufacturing Company, assignee: *See*—
Frey, Joseph.

Young, L. A., Spring & Wire Corporation, assignee: *See*—
Heilman, Bernard.

Zachary, James H., Arlington, Calif. Apparatus for manufacturing artificial mushrooms. 2,652,006, Sept. 15.

Zakarian, Arsham D., Del Mar, assignor to Solar Aircraft Company, San Diego, Calif. Turbine starting mechanism. 2,651,910, Sept. 15.

Zander, Rolf A.: *See*—
Vigren, Sten D., Claesson, and Zander.

Zanelli, Albert P., Wyckoff, N. J. Nail holding attachment for hammers. 2,652,082, Sept. 15.

Zeidler, Howard M.: *See*—
Hewlett, William R., and Zeidler.

Zeigler, James W., Oakland, Calif. Excess weight reducing mat. 2,652,049, Sept. 15.

Zemany, Paul D., Schenectady, N. Y., assignor to General Electric Company. Electrical vapor detector. 2,652,532, Sept. 15.

Zenith Radio Corporation, assignee: *See*—
Knowles, Hugh S.
Mullaney, Ralph A.

Zimmerman, Clarence C.: *See*—
Kent, John B., and Zimmerman.

Zinn, Julius A., Jr., Chicago, Ill. Carton. 2,652,186, Sept. 15.

Zoebelein, Hugo: *See*—
Gruber, Wolfgang, Heckmaier, and Zoebelein.

LIST OF DESIGN INVENTIONS

Bib or similar article. L. Rudin. 170,430, Sept. 15.
Bottle and applicator or similar article, Combined. H. M. Mullen. 170,426, Sept. 15.
Bracelet or similar article. G. de Saint-Germain. 170,403, Sept. 15.
Brassiere. J. J. Lo Cascio. 170,419, Sept. 15.
Cap. M. Briers. 170,398–9, Sept. 15.
Cap for tube or similar article. M. Brav. 170,395, Sept. 15.
Car body, Railway. J. E. Candlin, Jr. 170,400, Sept. 15.
Caulking gun. W. P. Peterson. 170,428, Sept. 15.
Control panel, Television cabinet. S. E. Adler. 170,394, Sept. 15.
Cooler, Automobile air. W. J. Stolz and A. Glassenhart. 170,431, Sept. 15.
Crutch. L. A. Wood. 170,437, Sept. 15.
Cup, Drinking. J. R. Hare. 170,409, Sept. 15.
Dispenser, Tape. J. O. Reinecke. 170,429, Sept. 15.
Dispensing device for small elements, Hand. E. Ischinger, Sr. 170,411–14, Sept. 15.
Handbag, Child's. B. David. 170,402, Sept. 15.
Hexagon capped nut. O. Gries. 170,408, Sept. 15.
Holder, Scouring pad. S. Ziskind. 170,438, Sept. 15.
Instrument case or similar article. J. Labe, III. 170,418, Sept. 15.
Letter opener and pencil, Combined. P. R. Horwitch. 170,410, Sept. 15.
Louver panel. E. Walthall. 170,434, Sept. 15.
Luggage, Article of. J. Brier, E. M. Belber, M. Kolson, and J. H. Walter. 170,397, Sept. 15.
Milk can carrier. D. M. Mestmaker. 170,424, Sept. 15.
Mixer, Hand-operated food. C. E. Elliott. 170,404, Sept. 15.
Motor, blower, and cover for a vacuum cleaner housing, Combined. J. J. Cinelli. 170,401, Sept. 15.
Potentiometer. M. E. Bourns. 170,396, Sept. 15.
Rack, Bottle. A. I. Wahren. 170,433, Sept. 15.
Scabbard. R. D. Knapp. 170,417, Sept. 15.
Shoehorn or the like. T. Jaderborg, Jr. 170,415, Sept. 15.
Spectacle front. H. Weissman. 170,435, Sept. 15.
Stapler or similar article, Desk. H. W. Marano. 170,423, Sept. 15.
Stocking. M. Fisher. 170,405–6, Sept. 15.
Stocking, M. Fisher and G. J. Ellgman. 170,407, Sept. 15.
Stopper, Suction sink. G. J. Monahan, Jr. 170,425, Sept. 15.
Sundress, Child's. E. Kairalla. 170,416, Sept. 15.
Table, Coffee. A. Luhrs. 170,420, Sept. 15.
Thermometer and holder for a scratch-pad or the like, Combined. R. Viemeister. 170,432, Sept. 15.
Toy figure. L. L. White. 170,436, Sept. 15.
Toy train block puzzle. G. Peterson. 170,427, Sept. 15.
Wheel cover or similar article. G. A. Lyon. 170,421–2, Sept. 15.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 15TH DAY OF SEPTEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acid fractional esters of oxypropylated hexanetriol-1,2,6. M. De Groote. 2,652,424, Sept. 15.
Acidic esters of oxyalkylated tetramethylolcyclohexanol. M. De Groote. 2,652,418, Sept. 15.
Acidising siliceous earth formations. D. C. Bond and R. H. Lorens. 2,652,360, Sept. 15.
Adhesion of rubber to fiber. M. W. Wilson. 2,652,353, Sept. 15.
Adhesive tape dispenser. K. J. Mysels. 2,652,115, Sept. 15.
Adhesive tape, Paper. J. S. Gerhardt. 2,652,351, Sept. 15.
Adsorption-stripping separation system. S. J. Marwil. 2,652,437, Sept. 15.
After-treating viscose threads advancing in a helical path. K. M. McLellan. 2,652,311, Sept. 15.
Aircraft control system. J. D. Moore and B. S. Wood. 2,652,526, Sept. 15.
Aircraft landing gear. C. J. Brukner. 2,652,215, Sept. 15.
Aircraft retractable and steerable nose-wheel and tail-wheel mountings. R. C. Cusons. 2,652,214, Sept. 15.
Aircraft structure cooling means. J. D. Hoffman. 2,652,216, Sept. 15.
Air-moving device. C. M. Buttner. 2,651,987, Sept. 15.
Alkane phosphonic acids, Preparation of. R. D. Stayner. 2,652,426, Sept. 15.
Alkanoic acids, Preparing. R. W. Rosenthal. 2,652,413, Sept. 15.
Alkyl acyloxy stearates. H. M. Teeter and J. C. Cowan. 2,652,411, Sept. 15.
Alkylation of thianaphthene. R. E. Conary and R. F. McCleary. 2,652,405, Sept. 15.
Alkylation process. W. W. Johnstone. 2,652,434, Sept. 15.
Alpha radiation detector. G. A. Argabrite. 2,652,490. Sept. 15.
Alternator and exciter combination. I. Kalikow, C. L. Willey and J. W. Poole. 2,652,507, Sept. 15.
Amplifier circuits, Transistor. R. L. Wallace, Jr. 2,652,460, Sept. 15.
Amplifier, Microwave. A. V. Hollenberg. 2,652,513, Sept. 15.
Amplifier, Negative feed-back. E. L. C. White. 2,652,459, Sept. 15.
Amplifier with positive and negative feedback. J. M. Miller, Jr. 2,652,458, Sept. 15.
Antenna and feed arrangement therefor, Dipole. J. P. Shanklin. 2,652,492, Sept. 15.
Anthraquinone compounds, Preparation of. H. Z. Lecher and K. C. Whitehouse. 2,652,408, Sept. 15.
Antijackknife fifth wheel coupling. W. G. Sherry. 2,652,262, Sept. 15.
Antislip decking. G. W. Causey. 2,651,978, Sept. 15.
Antistatic treatment of shaped articles comprising a vinyl resin and treated articles. J. J. Carnes and W. T. Booth, Jr. 2,652,348, Sept. 15.
Apparatus and method for molding brushes. A. B. Snyder. 2,651,810, Sept. 15.
Apparatus for cutting materials. C. M. Hannum. 2,651,889, Sept. 15.
Apparatus for determining magnetic properties of well cores. W. M. Schaufelberger, H. N. Herrick, and J. B. Leggett. 2,652,531, Sept. 15.
Apparatus for feeding rodlike articles. N. W. Jackson. 2,652,138, Sept. 15.
Apparatus for forming blower wheels. C. E. Wilken and L. L. McGladrey. 2,651,830, Sept. 15.
Apparatus for forming blower wheels. C. E. Wilken and L. L. McGladrey. 2,651,837, Sept. 15.
Apparatus for manufacturing artificial mushrooms. J. H. Zachary. 2,652,008, Sept. 15.
Apparatus for measuring liquid level. K. H. Kline. 2,651,940, Sept. 15.
Apparatus for measuring the contents of large tanks. E. A. Weaver. 2,651,939, Sept. 15.
Apparatus for measuring the spray angle of a nozzle. W. F. Smith. 2,651,844, Sept. 15.
Apparatus for measuring the thickness of nonmagnetizable coatings on magnetizable materials. T. R. Rudge. 2,652,846, Sept. 15.
Apparatus for modifying the amplitude range of microwave signals. A. F. Dietrich. 2,652,540, Sept. 15.
Apparatus for packing and sealing shipping cases. W. D. Kimball. 2,651,898, Sept. 15.
Apparatus for rapid X-ray exposures. W. B. Snook and R. A. Isenberg. 2,652,498, Sept. 15.
Arc chute with slotted and perforated barrier plates. D. E. Weston. 2,652,469, Sept. 15.
Armchair, Folding. J. Lee. 2,652,100, Sept. 15.
Armrest and brace for composite metal and wood chairs. J. S. Burdick. 2,652,102, Sept. 15.
Articles of improved water resistance from urea-formaldehyde resins, Production of. D. E. Cordier and W. D. Iliams. 2,652,373, Sept. 15.
Articles, such as valved bags, made of waterproof laminated fabric, Manufacture of. N. E. Weeks. 2,652,068, Sept. 15.
Asbestos dispersions. I. J. Novak. 2,652,325, Sept. 15.
Asphalt emulsion. W. G. Craig. 2,652,341, Sept. 15.
Automatic shutoff safety clutch coupling. J. J. Flaton. 2,652,135, Sept. 15.
Baby holder for children's chairs. B. Hlivka. 2,652,183, Sept. 15.
Balancing machine. F. A. Martin and S. J. Jeffery. 2,651,937, Sept. 15.
Balloon stick. H. A. Longino. 2,651,879, Sept. 15.
Balls, Making tennis. J. Anderson and R. S. Goy. 2,652,094, Sept. 15.
Barometric draft regulator. E. A. Field. 2,652,200, Sept. 15.
Baseball batting tee. O. J. Alder and F. Jacobs. 2,652,250, Sept. 15.
Basket guide. W. W. Hartman and R. A. Steps. 2,652,118, Sept. 15.
Bathing suit, One-piece. N. L. Miller. 2,651,780, Sept. 15.
Bearing: *See*—
Journal bearing. Self-aligning bearing.
Multirow cylindrical roller bearing.
Bearing-cleaning device and method. P. T. Dailey. 2,652,350, Sept. 15.
Bearing construction. R. H. Merrick. 2,652,228, Sept. 15.
Bearing construction, Rotary. M. E. Wollin. 2,652,295, Sept. 15.
Bearing mount for disk plows. M. C. Magarian. 2,652,291, Sept. 15.
Bed, Vertically adjustable segmental. H. M. Berner 2,651,785, Sept. 15.
Benzothiazole derivatives and production. N. Steiger. 2,652,401, Sept. 15.
Binary magnetic system. V. C. Wilson. 2,652,501, Sept. 15.
Bis-cyanine dyes and preparation. G. H. Keyes and L. G. S. Brooker. 2,652,396, Sept. 15.
Bit: *See*—
Square hole drilling bit. Wood bit
Blackboard supporting structure. L. F. Urbain. 2,651,852, Sept. 15.
Blade retention means with increased stiffness. C. M. Kearns, Jr. 2,652,123, Sept. 15.
Block: *See*—
Sandwich cutting block.
Block lift, Building. D. A. Allen. 2,652,278, Sept. 15.
Board: *See*—
Folding ironing board. Three-dimensional checker
Pattern tracing board. or chess game board.
Bobbin. J. W. Bourassa. 2,652,213, Sept. 15.
Boiler: *See*—
Plate type, undulating flue boiler.
Bolt or pin, Wedge type. J. V. Hammond. 2,651,962, Sept. 15.
Book and wrapper feed mechanism for wrapping machines. R. E. Ackley. 2,651,899, Sept. 15.
Boot with adhesive tape securing means, Animal. F. P. Lewis. 2,651,853, Sept. 15.
Bowling pin billets, Manufacturing. J. R. Curtis. 2,652,081, Sept. 15.
Bowling pin elevating and resetting mechanism. L. A. Durant and M. P. Wolverton. 2,652,557, Sept. 15.
Box transfer mechanism. M. Taranto. 2,652,127, Sept. 15.
Brake mechanism. R. L. Browning. 2,652,132, Sept. 15.
Brassière having cups made from elastic material. T. B. Schaumer. 2,651,779, Sept. 15.
Breaking soap-thickened petroleum gels. T. G. Wisherd. 2,652,370, Sept. 15.
Breech locking mechanism. C. E. Simpson. 2,651,974, Sept. 15.
Brush. W. A. Lombardi. 2,651,799, Sept. 15.
Brush and dispensing cabinet. E. R. Lindsay. 2,652,306, Sept. 15.

Brush comprising brush strips and holder therefor. W. A. Lombardi. 2,651,798, Sept. 15.
Brush, Power-driven fountain. G. H. Kilgore. 2,651,795, Sept. 15.
Brush, Rotary. L. J. Rousseau. 2,651,797, Sept. 15.
Brushes for sweepers, Pickup. J. H. Browne. 2,651,803, Sept. 15.
Buffer mechanism for railway vehicles. W. J. Metzger. 2,652,159, Sept. 15.
Burner control system, Gas. W. A. Ray. 2,652,109, Sept. 15.
Burner: *See*—
Pulverized fuel burner.
Burner having a bimetallic primary air valve, Gas fueled pilot. G. F. Jenkins. 2,652,108, Sept. 15.
Butt welding, Electric. C. G. Gordon and R. R. Cameron. 2,652,473, Sept. 15.
Cabinet: *See*—
Motion-picture projector cabinet. Tray cabinet.
Cabinet construction. A. K. Peterson. 2,652,308, Sept. 15.
Cable entrance for sealed enclosures. J. H. Simpson. 2,652,445, Sept. 15.
Camera support. P. W. Calhoun. 2,651,981, Sept. 15.
Camera support means for photographic tripods. H. E. B. Nocht. 2,652,220, Sept. 15.
Cap: *See*—
Rupturable crown cap.
Car construction, Railway. S. Simonson. 2,652,158, Sept. 15.
Carbon black pelleting. R. K. Simms. 2,652,344, Sept. 15.
Carburetor, Two fuel. H. A. Boller. 2,652,237, Sept. 15.
Cargo brace structure. G. D. Stough 2,652,004–5, Sept. 15.
Carrier: *See*—
Overhead log carrier.
Carton. J. A. Zinn, Jr. 2,652,186, Sept. 15.
Carving machine, Internal. M. Soloff. 2,651,975, Sept. 15.
Case: *See*—
Toothbrush case. Utility and spectacle case.
Cast iron. H. W. G. Hignett. 2,652,324, Sept. 15.
Casting of metals, Continuous or semicontinuous. R. Chadwick and J. F. Hobbs. 2,651,821, Sept. 15.
Catalytic hydrogenation of carbon monoxide to orientable, essentially hydrocarbon polymers. M. W. Farlow and E. C. Herrick. 2,652,372, Sept. 15.
Catamenial device. W. V. Lay. 2,652,056, Sept. 15.
Catch for vertically sliding doors, Safety. C. C. Moler. 2,651,817, Sept. 15.
Cellulose lower alkanoates, Stabilised. G. D. Hiatt and R. F. Williams. 2,652,340, Sept. 15.
Cellulose propionate gel lacquer composition and method of applying. R. E. Porzer and A. P. Baruch. 2,652,346, Sept. 15.
Cementing machine for flexible material having a worktable and extended guide rolls. W. P. Osgood. 2,652,022, Sept. 15.
Centrifugal pump. C. J. Bergh. 2,651,998, Sept. 15.
Ceramic bodies for plastic forming, Preparation of. H. H. Greger. 2,652,338, Sept. 15.
Chain: *See*—
Cutting saw chain.
Chain and means of making same, Endless. G. L. Oswalt. 2,652,142, Sept. 15.
Chain pipe cover and seal. F. J. Griffith. 2,652,018, Sept. 15.
Chair: *See*—
Folding chair.
Chaplet. H. F. Hohlfelder. 2,651,823, Sept. 15.
Chloromethyl methyl ether, Making. W. C. Bauman and E. L. McMaster. 2,652,432, Sept. 15.
Christmas tree stand. A. J. Schulz. 2,652,217, Sept. 15.
Cigarette and igniting means, Combined. C. Shio. 2,652,060, Sept. 15.
Circle marker. A. J. Goodford. 2,651,843, Sept. 15.
Circuit: *See*—
Color pulse selector circuit. Interpolating circuit.
Pulse generating circuit.
Gaseous discharge tube circuit. Reactance tube circuit.
Squelch circuit.
Circuit breaker. J. G. Jackson. 2,652,465, Sept 15.
Circuit breaker, Shielded. M. Mallory. 2,652,462, Sept. 15.
Circuit for television receiver tuners, Constant band width coupling. E. J. H. Bussard. 2,652,487, Sept. 15.
Circuits, Discriminator. H. A. Robinson. 2,652,489, Sept. 15.
Circuits, Thermionic valve integrating. M. M. Levy. 2,652,490, Sept. 15.
Clad magnesium base alloys. J. H. Jackson. 2,651,835, Sept. 15.
Clamp: *See*—
Dental clamp. Tire traction clamp.
Spring clamp.
Closure fastener. G. A. Tinnerman. 2,652,275, Sept. 15.
Closure remover with container gripping means. C. C. Phillips. 2,651,957, Sept. 15.
Clutch and brake, Spring. G. A. Montooth. 2,652,134, Sept. 15.
Coaxial line connector. R. B. Muchmore. 2,652,544, Sept. 15.
Collar retaining device. M. Oulouhojian. 2,651,782, Sept. 15.
Color couplers containing isophthalic acid radicals. F. C. McCrossen, S. M. Parmerter, and A. Weissberger. 2,652,329, Sept. 15.
Color pulse selector circuit. R. A. Maher and C. C. Pfitser. 2,652,491, Sept. 15.
Colostomy device. C. M. Baron. 2,652,055, Sept. 15.
Combination package. G. T. Pfeifer. 2,652,148, Sept 15.
Combustion chamber, Gas turbine. G. B. Hodgson. 2,651,913, Sept. 15.
Combustion chamber pressure indicator. T. C. Van Degrift, C. W. Gadd, and R. S. Matsen. 2,652,517, Sept. 15.
Combustor and cooling means therefor. R. W. Abbott. 2,651,912, Sept. 15.
Communication system. A. W. Borsum and W. W. Brockway. 2,652,556, Sept. 15.
Commutator. S. E. Gall. 2,652,509, Sept. 15.
Commutator blank and making commutators. J. Klym. 2,651,834, Sept. 15.
Commutator machine, Low-frequency two-phase. G. Thielers and E. Sjökvist. 2,652,508, Sept. 15.
Compass, Integrating. C. L. Otto, Jr. 2,651,842, Sept. 15.
Composite sintered metal powder article. R. J. Studders. 2,652,520, Sept. 15.
Composition for coloring margarine. W. E. Barch. 2,652,334, Sept. 15.
Composition of a premilled butadieneacrylonitrile copolymer and a nonrubbery thermoplastic synthetic resin. A. F. Sayko and J. R. Briggs. 2,652,384, Sept. 15.
Composition of matter with plastic bonding and making from cresol-formaldehyde, comminuted wood, and sodium silicate. S. Z. Avedikian. 2,652,373, Sept. 15.
Compressor for cigarettes. D. R. P. Jackson. 2,652,061, Sept. 15.
Computer, Electrical. C. J. Hirsch. 2,652,194, Sept. 15.
Condensation products of polyvinyl alcohol and aldehydes, Producing. W. Gruber, J. Heckmaier, and H. Zoebelein. 2,652,387, Sept. 15.
Conditioning agricultural soil and growing plants therein. R. M. Hedrick and D. T. Mowry. 2,651,885, Sept. 15.
Conditioning agricultural soil and growing plants therein. D. T. Mowry and R. M. Hedrick. 2,651,886, Sept. 15.
Conductor roll for apparatus for electrolytically treating strip. C. J. Klein. 2,652,461, Sept. 15.
Connector: *See*—
Coaxial line connector.
Connector having terminal clamping means, Detachable electrical. M. R. Rathborne. 2,652,547, Sept. 15.
Containing closure having spring biased slidable dispensing valve. R. J. Lagemann. 2,652,177, Sept. 15.
Container for turbine wheels, Shipping. J. Jenkins and I. B. Beren. 2,652,147, Sept. 15.
Container forming and filling machine. S. R. Howard. 2,651,897, Sept. 15.
Container opening and positioning machine. G. M. Woodruff and H. Heitlage. 2,651,896, Sept. 15.
Container opening, Hand pressure released. P. E. Brusienski. 2,652,109, Sept. 15.
Continuous preparation of beaded phenolsulfonic acid-formaldehyde condensation product. H. Wallman. 2,652,386, Sept. 15.
Control apparatus for fluid compressors. A. T. Gorman. 2,652,189, Sept. 15.
Conversation timing controlled in linefinders and repeaters. C. E. Lomax. 2,652,455, Sept. 15.
Conveyer, Chain. W. L. Van Doren. 2,652,143, Sept. 15.
Coop, Chicken. E. W. Aylor. 2,651,815, Sept. 15.
Copolymers of alpha-methylstyrene and alpha-methacrylonitrile. R. M. Schulken, Jr., and R. E. Boy, Jr. 2,652,391, Sept. 15.
Core cap remover. G. W. Wallenius. 2,651,836, Sept. 15.
Core recovery indicating device. H. H. Holland, Jr. 2,652,232, Sept. 15.
Correction device for function generators. P. T. Nickson. 2,652,195, Sept. 15.
Cotton stripping machine. T. H. Riza. 2,651,903, Sept. 15.
Cotton turbo-cleaner process. D. G. Black. 2,651,812, Sept. 15.
Coupling: *See*—
Antijackknife fifth wheel coupling. Multiple engine coupling.
Rotary hydraulic coupling.
Automatic shutoff safety clutch coupling.
Coupling. J. A. Jones. 2,652,270, Sept. 15.
Coupling and mechanical brake means, Rotary hydraulic. P. H. Batten. 2,651,916, Sept. 15.
Coupling for forward and reverse drive, Rotary hydraulic. H. G. Yates. 2,651,917, Sept. 15.
Cover for temporary protection of shoes. S. M. Griswold and H. C. Reynolds, Jr. 2,651,857, Sept. 15.
Cover securing means for wall boxes. C. A. P. Johnson. 2,652,171, Sept. 15.
Cranking device, Engine. M. H. Cole. 2,652,045, Sept. 15.
Crib and playpen, Combination. J. J. Field. 2,651,786, Sept. 15.
Cross-bearer construction for railway cars. S. Simonson. 2,652,006, Sept. 15.
Cross lighter and removable port-forming grid. G. E. Hughes. 2,652,107, Sept. 15.
Crutch, Rolling. E. R. Warren. 2,652,097, Sept. 15.
Crystallization process and apparatus. B. L. Graham. 2,651,922, Sept. 15.

Cultivator attachment. J. A. Vawter. 2,651,984, Sept. 15.
Curtain rod. E. J. Dubiell. 2,652,156, Sept. 15.
Curtain support. E. L. Potter. 2,652,155, Sept. 15.
Cutter: *See*—
Weed cutter.
Cutter bar for lawn mowers, Adjustable. F. W. Jatunn. 2,651,904, Sept. 15.
Cutting saw chain. N. C. Bye. 2,652,076, Sept. 15.
Cutting tip of composite construction. E. H. Tjomsland and K. D. Isecke. 2,652,105, Sept. 15.
Dairy feeder. C. E. Iddings. 2,652,026, Sept. 15.
Dash panel. J. W. Greig. 2,651,986, Sept 15.
Decanter, Bubble tray water. H. B. Manley. 2,652,238, Sept. 15.
Dental clamp. H. C. Peterson. 2,651,841, Sept. 15.
Dental impression material. A. Fink. 2,652,312, Sept. 15.
Deviation compensator. D. W. Halfhill. 2,652,545, Sept. 15.
Device adapted to be secured to sewing machines for the production of zigzag seams. G. Uts. 2,652,015, Sept. 15.
Device for cleaning grate bars of sintering machines. A. L. Sapp. 2,652,242, Sept. 15.
Device for removing layers of paint. J. Prent. 2,652,104, Sept. 15.
Die-bowl assembly. E. N. Meakin. 2,652,007, Sept. 15.
Die for extruding compressed powder rods. E. K. Leavenworth. 2,651,952, Sept. 15.
Differential gearing. G. R. Stevens. 2,651,946, Sept. 15.
Dispenser: *See*—
Adhesive tape dispenser.
Dispensing apparatus for coffee-making and dispensing machines, Cream. E. J. Lime. 2,652,176, Sept. 15.
Dispensing device, Multipurpose tape. P. Balaban. 2,652,205, Sept. 15.
Dispensing mechanism, Sheet-material. E. J. Friday. 2,652,302–3, Sept. 15.
Dispensing system, Article. T. S. Skillman and P. L. Law. 2,652,301, Sept. 15.
Display arrangement. A. Davison. 2,652,514, Sept. 15.
Display device. J. A. Fine. 2,651,862, Sept. 15.
Display rack. C. L. Stevens. 2,652,154, Sept. 15.
Distributing and venting header. H. M. Goheen. 2,652,069, Sept. 15.
Ditching plow adjustment mechanism. J. Schwindt. 2,651,856, Sept. 15.
Door: *See*—
Sliding door.
Door buck and trim, Adjustable. A. Alvarez, Jr. 2,651,813, Sept. 15.
Door for refrigerator display cases, Service. E. Swedman and H. J. Strobush. 2,652,305, Sept. 15.
Doorframe. L. L. Lester, Jr. 2,651,814, Sept. 15.
Door lock. A. E. Chesler. 2,651,934, Sept. 15.
Drier: *See*—
Oven drier.
Drill jig, Universally adaptable. H. G. Altenburger. 2,651,951, Sept. 15.
Drum tumbler. C. L. Hall. 2,652,140, Sept. 15.
Drying oil and enamel paint and making same, Synthetic. A. H. Gleason. 2,652,342, Sept. 15.
Dustpan. R. B. Lawrence. 2,651,924, Sept. 15.
Ear treating apparatus. C. F. Joers. 2,652,048, Sept. 15.
Electric arc melting furnace. O. W. Simmons. 2,652,440, Sept. 15.
Electric cord, Extensible. F. J. M. Dansard. 2,652,444, Sept. 15.
Electric melting furnace. S. E. Gynt, V. Poulsen, and R. Lundqvist. 2,652,441, Sept. 15.
Electrical control means for liquid fuel burning apparatus. A. E. Cleveland. 2,652,106, Sept. 15.
Electrical measuring system, Antihunt. A. J. Hornfeck. 2,652,524, Sept. 15.
Electrically heated steering wheel. L. T. Di Langiano. 2,652,476, Sept. 15.
Electromagnetic induction method and apparatus for locating subterranean electrically conductive bodies. S. Davidson. 2,652,530, Sept. 15.
Electromechanical filter. M. L. Anthony and R. M. Virkus. 2,652,542–3, Sept. 15.
Electron gun. A. V. Hollenberg. 2,652,512, Sept. 15.
Embossed article and product thereof, Making. A. E. Murray. 2,652,352, Sept. 15.
End roll adjustment. E. T. Peterson. 2,651,956, Sept. 15.
Engine: *See*—
Hydraulic engine.
Multiple cylinder internal-combustion engine.
Engine stopping device for motor vehicles. J. F. Dewhirst. 2,652,125, Sept. 15.
Ensilage distributor. C. Sands. 2,652,288, Sept. 15.
Epoxide resins heated with vegetable oils in the presence of steam. J. Rinse. 2,652,376, Sept. 15.
Eraser device, Refillable. E. H. Metcalf. 2,652,029, Sept. 15.
Esters of alpha-hydroxy acids and their estolides. O. D. Cunningham and O. L. Polly. 2,652,410, Sept. 15.
Etching machine. W. Guenst. 2,651,869, Sept. 15.
Evaporator for refrigerating apparatus. H. Stierlin. 2,651,923, Sept. 15.
Exhaust feed supply for engines. H. J. Tritt. 2,652,040, Sept. 15.
Expander for microwave signals. C. C. Cutler. 2,652,541, Sept. 15.
Facsimile apparatus for repeat copies. C. E. Hunt, Jr. 2,652,448, Sept. 15.
Fan, Ventilating. C. A. Lindberg and H. W. Eckles. 2,652,193, Sept. 15.
Fastener: *See*—
Closure fastener.
Fastening device. F. H. Stearns and A. J. Thibault. 2,652,297, Sept. 15.
Feed mechanism for carton blank forming apparatus. G. Kane. 2,652,247, Sept. 15.
Feed mechanism for nipple threading machines and the like. G. B. Marsden. 2,651,791, Sept. 15.
Feeder: *See*—
Dairy feeder.
Feeder. S. C. Baehr and A. D. Roubloff. 2,652,139, Sept. 15.
Feeding mechanism for chippers. R. R. Alexander. 2,652,077, Sept. 15.
Film developing table. B. B. Weaver. 2,651,982, Sept. 15.
Film-winding device. H. L. Fitch. 2,652,208, Sept. 15.
Filter: *See*—
Electromechanical filter.
Filter. P. L. Legus. 2,652,151, Sept. 15.
Filtration method. C. A. Frankenhoff. 2,652,152, Sept. 15.
Fire alarm signal station, Automatic and manually operated. M. Levy. 2,652,468, Sept. 15.
Fire alarm station, Automatic and manually operated multiple switch. M. Levy. 2,652,463, Sept. 15.
Fire extinguishing apparatus for homes. J. Petro. 2,652,068, Sept. 15.
Fishing lure. M. C. Kohler and W. H. Todd. 2,651,876, Sept. 15.
Fishing reel. W. C. Hanse. 2,652,211, Sept. 15.
Fishing tip-up, Ice. R. E. Brockman. 2,651,875, Sept.15.
Fishing vessel. E. W. Key. 2,651,874, Sept. 15.
Flashlight and mirror support, Combined. A. A. Wilson. 2,652,479, Sept. 15.
Flexible abrasive wheel. G. O. Leggett. 2,651,894, Sept. 15.
Floating inner sole binding gauge. W. P. Tenge. 2,651,793, Sept. 15.
Floor and threshold plate structure for railway cars, Adjacent. E. G. Doke. 2,651,819, Sept. 15.
Fly swatter, Novelty. C. Webbeking. 2,651,878, Sept. 15.
Flywheel magneto. G. E. Pinter. 2,652,504, Sept. 15.
Foldable bed frame. J. Pillero. 2,651,787, Sept. 15.
Folding apparatus, Garment. J. W. Steele. 2,652,178, Sept. 15.
Folding chair. W. E. Nordmark. 2,652,098, Sept. 15.
Folding chair. N. H. C., C. E. N., and R. H. Sciarrillo. 2,652,099, Sept. 15.
Folding ironing board. J. E. Wood. 2,651,861, Sept. 15.
Footrest for automotive vehicle drivers. C. H. Schetner. 2,651,944, Sept. 15.
Forming spheroidal catalyst particles. J. L. Gring. 2,652,371, Sept. 15.
Fountain, Wash. J. Rothmayr. 2,652,284, Sept. 15.
4-amino-N,N-dialkyl-3-dialkylaminoanilines as developers for photographic silver halide emulsions. A. Weissberger and J. R. Thirtle. 2,652,331, Sept. 15.
Fractional esters of oxypropylated 4,4′-dihydroxydiphenyl sulfone. M. De Groote. 2,652,420, Sept. 15.
Fractional esters of polyoxyalkylated furfurylamine. M. De Groote. 2,652,407, Sept. 15.
Fractional esters of polyoxyalkylated glyceryl ethers. M. De Groote. 2,652,421, Sept. 15.
Fractional esters of polyoxyalkylated glycerol ethers. M. De Groote. 2,652,422, Sept. 15.
Fractional esters of polyoxyalkylated glyceryl ethers. M. De Groote. 2,652,423, Sept. 15.
Fractional esters of polyoxyalkylated p,p′-dihydroxydiphenyl-dimethyl-methane. M. De Groote. 2,652,419, Sept. 15.
Fractionation of black grease. M. Mattikow. 2,652,412, Sept. 15.
Frame: *See*—
Foldable bed frame.
Froth flotation of sylvinite ore. A. J. Weinig. 2,652,150, Sept. 15.
Fuel feeding apparatus for internal-combustion engines. H. L. Knudsen. 2,652,041, Sept. 15.
Fumagillin and preparation. F. R. Hanson and T. E. Eble. 2,652,356, Sept. 15.
Fumigant compositions containing completely halogenated bromochloromethanes having at least two chlorine atoms. J. A. Pianfetti, R. Melvin, and H. H. Earle, Jr. 2,652,337, Sept. 15.
Fungicides. N. Ercoli and G. van Wessem. 2,652,355, Sept. 15.
Furnace: *See*—
Electric arc melting furnace. Electric melting furnace.
Furnace carbon black, Manufacture of. W. L. Loving. 2,652,313, Sept. 15.
Fuse and indicator, Combined. H. H. Mohring. 2,652,466, Sept. 15.
Fuse with porous metal ends, Renewable. F. G. von Hoorn and H. B. Bennett. 2,652,467, Sept. 15.
Fuse, Delay arming. H. Berzof and F. A. Rogers. 2,651,993, Sept. 15.

Garbage disposal unit. A. D. Stickney. 2,652,163, Sept. 15.
Garment for infants, Sleeping. G. R. Buchholz. 2,651,781, Sept. 15.
Garment hanger. R. E. Franco. 2,652,179, Sept. 15.
Garment, Infant's. P. G. Siegel and M. Stein. 2,652,057, Sept. 15.
Garment, Infant's sleeping. D. J. Smith. 2,652,052, Sept. 15.
Gas analyzing devices. J. E. McEvoy. 2,652,315, Sept. 15.
Gas discharge device. L. R. Landrey and A. Maxsel. 2,652,510, Sept. 15.
Gaseous discharge tube circuit. D. A. Griffin. 2,652,519, Sept. 15.
Gas-oil separator. C. K. Ferguson. 2,652,130, Sept. 15.
Gasoline tank truck valve. R. D. Marx. 2,652,070, Sept. 15.
Gauge: *See*—
Floating inner sole binding gauge. Roundness checking gauge.
Gauging apparatus, Tank. J. H. Heigl. 2,651,938, Sept. 15.
Gausemeter. M. J. Lush. 2,652,533, Sept. 15.
Gear: *See*—
Aircraft landing gear.
Gear for trailers, Steering. A. Bocci. 2,652,124, Sept. 15.
Gear with cushioned lubricated leakproof skid suspension, Tracked. M. G. Bekker. 2,652,289, Sept. 15.
Generator: *See*—
High-frequency generator. Thermoelectric generator.
Germicidal receptacle. R. R. Farrell. 2,652,173, Sept. 15.
Girdle, Maternity. B. Wohlman. 2,651,778, Sept. 15.
Girdle, Panty. A. J. Fox. 2,651,777, Sept. 15.
Golf ball. R. M. Verburg. 2,652,254, Sept. 15.
Golf indicator apparatus. A. Molinar. 2,652,251, Sept. 15.
Grapple. R. O. Billings. 2,652,280, Sept. 15.
Gravel packing wells, Method and apparatus for. H. S. Arendt and G. F. Abendroth. 2,652,117, Sept. 15.
Grease composition. H. A. Woods and R. C. Jones. 2,652,362, Sept. 15.
Grease compositions. H. A. Woods and L. C. Bollinger. 2,652,361, Sept. 15.
Grease compositions. H. A. Woods and L. C. Bollinger. 2,652,363, Sept. 15.
Grease compositions, High-temperature. H. A. Woods and L. C. Bollinger. 2,652,364, Sept. 15.
Grease compositions, Manufacture of. R. J. Moore and J. N. Wilson. 2,652,365, Sept. 15.
Grille. R. L. Leigh. 2,652,133, Sept. 15.
Grinder, Snagging. G. E. Comstock, 3d. 2,651,888, Sept. 15.
Grinding disk. D. M. Sutherland. 2,651,976, Sept. 15.
Grinding machine for lenses, Automatic edge. R. Rubinstein. 2,651,890, Sept. 15.
Grinding wheel. E. D. Teague. 2,652,320–1, Sept. 15.
Gripper for printing presses. S. Meckler. 2,651,991, Sept. 15.
Hair curler and key. R. Seyffarth. 2,652,063, Sept. 15.
Hand device for selectively dispensing and locating small elements. E. Ischinger, Sr. 2,652,012, Sept. 15.
Handle: *See*—
Mower handle. Paper bag handle.
Hanger: *See*—
Garment hanger.
Harvester, Beet. E. C. Roepke. 2,651,901, Sept. 15.
Headband for hearing aid transducers. H. S. Knowles. 2,652,457, Sept. 15.
Headrest, Adjustable. A. Samsky and H. M. Houseman. 2,652,101, Sept. 15.
Heat exchange apparatus. E. D. Lewis and R. M. Luckring. 2,652,037, Sept. 15.
Heater fittings, Water. F. A. McFerran. 2,652,358, Sept. 15.
Heater for internal-combustion engines, Automatic. J. B. Kent and C. C. Zimmerman. 2,652,042, Sept. 15.
Heating apparatus, Electric induction. J. C. Howard. 2,652,478, Sept. 15.
Heating attachment for electric food mixers. B. L. Samuelsen. 2,652,235, Sept. 15.
Heating opposed edges of elongated members. P. N. Sorensen. 2,652,474, Sept. 15.
Herbicides. R. M. Hedrick and D. T. Mowry. 2,652,322, Sept. 15.
Herbicides. D. T. Mowry and R. M. Hedrick. 2,652,323, Sept. 15.
High-frequency generator. W. R. Hewlett and H. M. Zeidler. 2,652,311, Sept. 15.
High-speed silver dye bleachout taking and printing film. J. A. Sprung. 2,652,328, Sept. 15.
Hinge, Adjustable gate. J. M. Thompson. 2,651,806, Sept. 15.
Hinge, Automobile door. R. A. Laible. 2,651,805, Sept. 15.
Hinge for shoe lasts. C. H. Heitman and R. R. Niehaus. 2,651,794, Sept. 15.
Hobbyhorse. E. M. Kennedy. 2,651,880, Sept. 15.
Hoist, Wagon. T. G. Walker. 2,652,229, Sept. 15.
Holder: *See*—
Picture frame holder. Welding electrode holder.
Homogenizer. B. Feldman. 2,652,234, Sept. 15.
Homogenising mill. J. H. Mallinson and C. J. Geyer, Jr. 2,652,202, Sept. 15.
Hook and lure, Weedless. H. P. Olson. 2,651,877, Sept. 15.
Hook lock. W. A. Cole. 2,652,276, Sept. 15.
Hose nozzle support. C. Dean. 2,652,218, Sept. 15.
Humidity responsive device. W. E. Windsor and A. J. Koll. 2,651,941, Sept. 15.
Hydraulic engine. P. Bayer. 2,652,085, Sept. 15.
Hydrocarbon separation. F. C. Neuhart and G. A. Gohlke. 2,652,439, Sept. 15.
Illuminated level. A. H. Hall. 2,652,481, Sept. 15.
Illuminator and reflector, Combined. P. C. Duval. 2,652,480, Sept. 15.
Impeller wheel. R. L. and H. E. Meltzer. 2,652,190, Sept. 15.
Improvement in wall hydrant of the nonfreezing type. W. B. Noland. 2,652,224, Sept. 15.
Incinerator, Chimney wall mounted. G. H. Willett, Jr. and W. R. Vroman. 2,652,010, Sept. 15.
Index card and removable index tab. F. L. Wassell. 2,652,059, Sept. 15.
Indexing device. H. N. Rocks. 2,651,895, Sept. 15.
Indicator: *See*—
Combustion chamber pressure indicator.
Insole having separate attached sewing ribs. V. A. Sherbrook. 2,651,855, Sept. 15.
Instrument for producing colors by means of polarization. S. Rösch. 2,651,971, Sept. 15.
Interlining for the manufacture of chemically stiffened articles of wearing apparel. L. Bihaly. 2,652,349, Sept. 15.
Interpolating circuit. A. E. Frost. 2,652,452, Sept. 15.
Intravenous solution flask provided with a snap-up bail. C. B. Bishop. 2,652,054, Sept. 15.
Inverse rotor. R. A. Mathelsel. 2,652,505, Sept. 15.
Iron: *See*—
Cast iron.
Irrigation apparatus. E. H. Willetts. 2,652,282, Sept. 15.
Jaw for clamping fixtures on workbenches, Adjustable. H. E. Clauss. 2,652,080, Sept. 15.
Joint: *See*—
Rope and cable joint.
Journal bearing. R. N. Sabee. 2,652,292, Sept. 15.
Knife assembly. S. J. Folland. 2,651,839, Sept. 15.
Knife cradle. H. G. Mullins. 2,651,927, Sept. 15.
Knitting. P. L. St. Pierre. 2,651,929, Sept. 15.
Knitting machine tensioning device, Warp. C. J. Brown and T. F. Schwanda. 2,651,930, Sept. 15.
Knurling machine, Piston. H. P. Phillips. 2,651,953, Sept. 15.
Lactones, Preparation of. L. L. Crabalona. 2,652,406, Sept. 15.
Lamp and lamp socket assembly, Electric portable. G. B. Benander. 2,652,485, Sept. 15.
Lamp and socket, Arcuate discharge. A. H. Laidig and G. S. Evans. 2,652,483, Sept. 15.
Lamp shade seam sealing machine. J. J. Cahill. 2,652,095, Sept. 15.
Landside end connection for bulldozer blades. G. W. Mork. 2,651,860, Sept. 15.
Latch mechanism. L. L. Anderson. 2,652,277, Sept. 15.
Lawn edge trimmer and weed puller. E. Schlueter. 2,651,905, Sept. 15.
Level. J. W. Sims. 2,651,848, Sept. 15.
Life line for boats. I. A. Newland. 2,651,789, Sept. 15.
Lifter: *See*—
Linoleum lifter.
Light guard, Trouble. F. G. Graves. 2,652,484, Sept. 15.
Lighter, Cigar. A. A. Johnson. 2,652,477, Sept. 15.
Lighter, Cigarette. E. P. Gaillmard, Sr. and E. P. Gaillmard, Jr. 2,651,931, Sept. 15.
Lighting unit, Vented explosion-proof. C. H. Bissell. 2,652,482, Sept. 15.
Liner support and closure for acid resistant drums. C. Negola. 2,652,172, Sept. 15.
Linoleum lifter. R. Goedken. 2,652,207, Sept. 15.
Liquid addition product of an acetal and dialkyl esters of an alpha-beta unsaturated aliphatic dicarboxylic acid as an antifoaming agent for hydrocarbon oils. J. E. Fields. 2,652,369, Sept. 15.
Liquid-liquid contacting apparatus. W. A. Williams. 2,652,316, Sept. 15.
Lock: *See*—
Door lock. Hook lock.
Lock for storm sash. I. H. Schwartz. 2,651,818, Sept. 15.
Locking construction for paperboard containers, Corner. R. E. Acker. 2,652,185, Sept. 15.
Locking stem adjustment valve. N. M. Huff. 2,652,226, Sept. 15.
Locking stem adjustment valve. V. C. Peterson and H. H. Nadasdy. 2,652,225, Sept. 15.
Locomotive, Compound steam. G. Baillot. 2,652,034, Sept. 15.
Loom and actuation means for loom shuttles. A. Longoria. 2,652,073, Sept. 15.
Loom with continuous weft supply, Shuttleless. C. Villa and A. Moriani. 2,652,072, Sept. 15.
Lubricating composition. D. E. Adelson. 2,652,367, Sept. 15.
Lubricating grease compositions, Preparing. R. C. Jones and R. J. Wall. 2,652,366, Sept. 15.
Lubricating oil composition. D. S. Melstrom and F. J. Watson. 2,652,368, Sept. 15.

m-Nitro and m-amino-benzyl derivatives of α-mono- and α,α'-diketo-pyrrolidines and -piperidines and tetrahydrophthalimides, Preparing. S. R. Buc. 2,652,403, Sept. 15.
Machine controls, Folding. B. S. Kagan. 2,652,246, Sept. 15.
Machine for coating back seams of shoe uppers. H. Phillips. 2,652,021, Sept. 15.
Machine for compacting materials. E. E. Wells and E. R. West. 2,651,980, Sept. 15.
Machine for filling cartons. M. Fox. 2,652,180, Sept. 15.
Machine for finishing pistons. C. G. Menard and J. J. McCabe. 2,651,832, Sept. 15.
Machine for planting grass and clover seed. J. L. Presler. 2,652,261, Sept. 15.
Machine for processing thermoplastic hosiery. H. S. Drum and W. C. Dodson. 2,651,932, Sept. 15.
Machine for securing end closures to container barrels. I. L. Wilcox and N. S. Cole. 2,651,977, Sept. 15.
Magazine for cameras, Strip film. I. W. Doyle. 2,651,964, Sept. 15.
Magnetic storage system for electronic binary digital computers. F. C. Williams and J. C. West. 2,652,554, Sept. 15.
Magnetron, Simplitron. C. V. Litton. 2,652,516, Sept. 15.
Making available the bitter substances from hops. T. R. Nilsson and K. E. Sandegren. 2,652,333, Sept. 15.
Manipulative mixer. J. Lum. 2,652,236, Sept. 15.
Manually actuated device for projecting successively spaced film frames. J. Frey. 2,651,968, Sept. 15.
Margarine package. B. T. Henagen and D. E. Rueckert. 2,652,336, Sept. 15.
Marine seismometer spread. C. C. Lash. 2,652,550, Sept. 15.
Mat, Excess weight reducing. J. W. Zeigler. 2,652,049, Sept. 15.
Matrix assembly stick. A. N. Lewandoski. 2,652,145, Sept. 15.
Mattress. D. F. Forwood. 2,651,788, Sept. 15.
Means for use in stenciling and the like. W. J. Kerr. 2,651,989, Sept. 15.
Mechanical turn lift. W. N. Weast. 2,651,963, Sept. 15.
Mechanism for the opening and closing of windows, louvers, or the like. J. S. Bentley. 2,652,245, Sept. 15.
Merchandising machine, Candy. C. Gabrielsen. 2,652,304, Sept. 15.
Metal-backed wood floor. E. Hirsch. 2,651,820, Sept. 15.
Meter: *See*—
Parking meter.
Metering and phasing mechanism, Film. H. T. Hodges. 2,652,210, Sept. 15.
Metering mechanism, Film. H. T. Hodges. 2,652,209, Sept. 15.
Microscope attachment, Multipurpose. E. J. Thor. 2,651,969, Sept. 15.
Microwave apparatus. P. L. Spencer. 2,652,475, Sept. 15.
Mill: *See*—
Homogenizing mill.
Rotary disk type homogenizing mill.
Mixer: *See*—
Manipulative mixer.
Mixtures comprising acrylonitrile polymers and vinyl acetate-fumaric amide interpolymers. J. R. Caldwell. 2,652,378, Sept. 15.
Mobile support. M. G. Bekker. 2,652,290, Sept. 15.
Modulating relay, Pneumatic. H. L. Bowditch. 2,652,066, Sept. 15.
Mold supporting device. R. P. Davis. 2,651,822, Sept. 15.
Molded decoy. A. H. Risch and A. J. Nelson. 2,651,873, Sept. 15.
Motion-picture projector cabinet. L. L. Thomas. 2,651,967, Sept. 15.
Motional correlation in reduced band width television. R. E. Graham. 2,652,449, Sept. 15.
Motor control, Electric. N. B. Nichols and J. P. Aloisio. 2,652,525, Sept. 15.
Mounting: *See*—
Aircraft retractable steerable nose-wheel and tail-wheel mounting.
Rearview mirror mounting.
Turbine wheel mounting.
Weighing scale lens frame mounting.
Mounting apparatus. J. J. J. Kernahan. 2,651,833, Sept. 15.
Mounting for auxiliary powered sailboats, Shiftable engine and propeller. E. O. Hurst. 2,652,019, Sept. 15.
Mounting for electric motor starters. W. C. Furnas and N. H. Koertge. 2,652,506, Sept. 15.
Mower handle. E. D. Wilkin. 2,651,804, Sept. 15.
Mowing machine having vibration neutralizing means. E. K. Bonner, Jr., and J. J. Zozzi. 2,651,906, Sept. 15.
Muffler with expansion chambers, Retroverted passage type. B. B. Cary. 2,652,128, Sept. 15.
Multiple cylinder internal-combustion engine. A. H. Winkler. 2,652,038, Sept. 15.
Multiple engine coupling. J. H. Wilson. 2,651,947, Sept. 15.
Multirow cylindrical roller bearing. P. G. Palmgren and A. S. Murray. 2,652,296, Sept. 15.
Musical instrument, Educational. P. P. Pattya. 2,651,960, Sept. 15.
N-alkyl-N-(β-methylsulfonamidoethyl)-P-aminophenols, A. Weissberger, J. R. Thirtle, and R. L. Bent. 2,652,428, Sept. 15.
N-(C mercapto-pyrimidyl)-P-aminobenzenesulfonamides. W. A. Lott and F. H. Bergeim. 2,652,395, Sept. 15.
N-substituted saturated diamines, Preparation of. H. D. Finch and S. A. Ballard. 2,652,430, Sept. 15.
N-substituted-2-amino (methyl) quinolines. I. A. Kaye. 2,652,398, Sept. 15.
Nail holding attachment for hammers. A. P. Zanelli. 2,652,082, Sept. 15.
Negative charge image television transmission tube. J. D. McGee. 2,652,515, Sept. 15.
Nozzle clip for lamp sockets, Threaded. G. B. Benander. 2,652,548, Sept. 15.
Obtaining carotene from palm oil. P. Blaizot. 2,652,433, Sept. 15.
Odometer resetting mechanism. F. E. Miner and E. C. Murbach. 2,652,199, Sept. 15.
Oil well contamination removing tool. J. W. Hodges. 2,652,120, Sept. 15.
1,2,3,10b-tetrahydrofluoranthene-10b-carboxylic acid. E. Steinberg. 2,652,417, Sept. 15.
Opener, Can. E. W. Curtis. 2,651,838, Sept. 15.
Ornamental device for pyrophoric lighters. S. G. Lipic and H. R. Morrow. 2,651,870, Sept. 15.
Oven drier. A. J. Kisskalt. 2,651,849, Sept. 15.
Overcoming elongation of pulses. L. C. Fetea. 2,652,451, Sept. 15.
Overhead log carrier. J. Wyssen. 2,652,157, Sept. 15.
Overload relief for electric motors. J. L. Moody and E. A. Davis. 2,652,527, Sept. 15.
Oxyalkylated derivatives of sucrose, Certain. M. De Groote. 2,652,394, Sept. 15.
Oxyalkylation of the amides of secondary amines. M. De Groote. 2,652,400, Sept. 15.
Oxypropylated fractional esters of polycarboxylic acids. M. De Groote. 2,652,425, Sept. 15.
Oxypropylated polyamide-polycarboxylic acid reaction product. M. De Groote. 2,652,388, Sept. 15.
Package. J. D. Conti. 2,652,335, Sept. 15.
Package memo pad. J. R. O'Meara. 2,652,149, Sept. 15.
Packaging device, Shirt. S. Lighter. 2,652,146, Sept. 15.
Pad: *See*—
Package memo pad.
Pail, Nipple-equipped feeder. J. M. Coyner. 2,652,027, Sept. 15.
Paint spray mask for auto tires. M. J. Kletsky. 2,652,023, Sept. 15.
Painting and decorating. C. P. Lynden. 2,651,871, Sept. 15.
Palette, Multiple leaf. J. A. Siegel. 2,651,868, Sept. 15.
Paper bag handle. H. K. Steen and H. L. Thompson. 2,652,187, Sept. 15.
Parking meter. D. G. Gumpertz and R. C. Alexander. 2,652,551, Sept. 15.
Pattern tracing board. B. T. Endlich. 2,652,267, Sept. 15.
Paving machine, including means for spading at the sides of the forms. C. Jackson. 2,651,979, Sept. 15.
Pen assembly, Demountable animal. W. G. Beatty. 2,652,025, Sept. 15.
Pen, Ball-point. M. J. Reed. 2,652,031, Sept. 15.
Pen, Fountain. M. Stiefel and M. Kalichman. 2,652,030, Sept. 15.
Perforating system. R. F. Mallina and J. M. Melick. 2,652,116, Sept. 15.
Phase balancing system. E. F. W. Alexanderson. 2,652,529, Sept. 15.
Phonograph. C. B. Dale, A. L. Berg, and H. H. Wagner. 2,652,258, Sept. 15.
Phonograph pickup apparatus, Improved. B. B. Bauer. 2,652,260, Sept. 15.
Photographic color reproduction process. L. M. Condax. 2,652,327, Sept. 15.
Photographic dye solution. C. E. Payne. 2,652,343, Sept. 15.
Photographic objective system, Highly corrected image producing. H. Tiller. 2,651,970, Sept. 15.
Picture frame holder. H. A. Prew. 2,651,867, Sept. 15.
Pin: *See*—
Rolling pin.
Pin retaining means for bowling alleys. H. S. and W. H. Johns. 2,652,253, Sept. 15.
Pipe: *See*—
Tobacco smoking pipe.
Pipe handling device. B. P. La Mulle. 2,652,160, Sept. 15.
Pistol, Helmet mounted. A. B. De Salardi. 2,651,872, Sept. 15.
Piston sealing ring. M. E. Estey. 2,652,298, Sept. 15.
Pitting and halving machine, Fruit. C. H. Ansley. 2,652,085, Sept. 15.
Plate type, undulating flue boiler. J. A. Grace. 2,652,036, Sept. 15.
Platform, Portable. O. F. Arthur. 2,652,219, Sept. 15.
Pliers for applying split-shot fishing sinkers. W. W. Deline. 2,651,958, Sept. 15.
Plug: *See*—
Removable contactor connection plug. Spark plug.
Polarized relay. S. D. Vigren, P. H. E. Claesson, and R. A. Zander. 2,652,464, Sept. 15.
Polarised tool. S. Taylor. 2,651,840, Sept. 15.

Polyamide containing beta carbonamido-alpha-amino-propionic acid units. M. S. Raasch and C. W. Tullock. 2,652,389, Sept. 15.
Polyester resin compositions and preparing same. J. F. Davis. 2,652,382–3, Sept. 15.
Polymeric compositions. C. H. Basdekis. 2,652,381, Sept. 15.
Polymerization of α-acyloxyacrylonitriles in aqueous systems using a redox catalyst and polymers obtained therefrom. H. J. Hagemeyer, Jr. 2,652,390, Sept. 15.
Polymerization with alkyl phosphite catalysts. J. B. Dickey and H. W. Coover, Jr. 2,652,393, Sept. 15.
Power indicating apparatus for internal-combustion engines or motors provided with governor. A. Lagardère. 2,652,046, Sept. 15.
Power plant having a common manual control for the fuel valves of the compressor and power turbines. E. G. Sterland. 2,651,911, Sept. 15.
Power transmission mechanism in storage equipment. H. Auger. 2,652,162, Sept. 15.
Predetermined counter. V. C. Kennedy, Jr. 2,652,198, Sept. 15.
Predetermining system, including devices providing continuous operation without homing or resetting. J. Berger. 2,652,197, Sept. 15.
Preserving and presenting a urine sample for analysis thereof. N. W. Drey. 2,652,314, Sept. 15.
Press: *See*—
Sheet controlled rotary Web printing press.
printing press.
Presser-foot, Sewing machine. J. P. Enos. 2,652,016, Sept. 15.
Pressure cooker. W. and M. Lotter. 2,652,170, Sept. 15.
Printing apparatus, Stencil. J. B. Thomas and C. E. Moorhouse. 2,651,988, Sept. 15.
Process monitor mass spectrometer minimizing high-voltage history effects. H. W. Washburn. 2,652,495, Sept. 15.
Projection apparatus, Continuous loop film. A. J. Bradford. 2,651,966, Sept. 15.
Propeller blade with bulbed core, Hollow. C. M. Kearns, Jr., and G. T. Lampton. 2,652,121, Sept. 15.
Propeller pitch stop system. M. E. Longfellow. 2,652,122, Sept. 15.
Pulse generating circuit. W. S. Melville and G. R. Jackson. 2,652,502, Sept. 15.
Pulverised fuel burner. S. G. van Ramshorst. 2,652,011, Sept. 15.
Pump: *See*—
Centrifugal pump. Rotary pump.
Pump. J. J. Lyth. 2,651,997, Sept. 15.
Pump and motor hydraulic system, including reversing and automatic by-pass valve units. L. M. Chattler. 2,651,915, Sept. 15.
Pump motor controller. D. R. Nahmens. 2,651,996, Sept. 15.
Pump with dual discharge means, Variable capacity. W. H. De Lancey and E. E. Vincent. 2,651,994, Sept. 15.
Pumping apparatus and pumping fluids. W. E. Rupp. 2,652,181, Sept. 15.
Pumping assembly. R. A. Smith. 2,652,231, Sept. 15.
Pumping head and operating mechanism for wells. J. F. Joy. 2,651,914, Sept. 15.
Purse with attached loss-preventing device. E. C. Henderson. 2,652,090, Sept. 15.
Push button. H. W. Batcheller. 2,652,470, Sept. 15.
Rack: *See*—
Display rack.
Radiator core, Automotive type cellular. S. Prayborowski. 2,652,233, Sept. 15.
Radioactivity method and apparatus for bore-hole logging. G. Herzog and A. S. McKay. 2,652,496, Sept. 15.
Radio broadcast system. J. R. Alburger. 2,652,536, Sept. 15.
Radio communication system, Multichannel. W. G. Alexander and C. M. Harden. 2,652,453, Sept. 15.
Radio location system. J. E. Hawkins. 2,652,558–62, Sept. 15.
Rake. C. L. Morris. 2,652,279, Sept. 15.
Rake, Quiller. R. R. Cone. 2,652,203, Sept. 15.
Reactance system. K. S. Stull, Jr. 2,652,537, Sept. 15.
Reactance tube circuit. W. R. Rambo. 2,652,538, Sept. 15.
Reaction of cracked petroleum fractions, formaldehyde and ammonium halides and products. H. D. Hartough, J. J. Dickert, Jr., and S. L. Meisel. 2,652,429, Sept. 15.
Reaction of lactones with trialkyl phosphite. H. W. Coover, Jr., and J. B. Dickey. 2,652,416, Sept. 15.
Reactor inlet. K. A. Rees, T. J. Innes, Jr., and L. M. and R. W. Williams. 2,652,317, Sept. 15
Rearview mirror mounting G. L. Kampa. 2,652,221, Sept. 15.
Receptacle: *See*—
Germicidal receptacle. Water-holding and dispensing receptacle.
Self-irrigating plant receptacle.
Record storing and ejecting mechanism for phonographs. R. A. Mullaney. 2,652,257, Sept. 15.
Recorder, Magnetic tape. N. M. Haynes. 2,652,204, Sept. 15.
Recorder, Radiation beam pattern. A. F. Bischoff. 2,651,963, Sept. 15.
Recovery of organic oxygenated compounds. V. F. Michael. 2,652,415, Sept. 15.
Rectifier stack. A. S. Vanderhoof. 2,652,522, Sept. 15.
Reel: *See*—
Fishing reel. Thread advancing reel.
Surf casting fishing reel.
Refill unit for ball-point pens. S. G. Lipic. 2,652,032, Sept. 15.
Regulator: *See*—
Barometric draft regulator.
Remote electrical drive unit. H. H. Harada. 2,652,471, Sept. 15.
Removable contactor connection plug. D. Ingalls and J. W. Anderson. 2,652,549, Sept. 15.
Removing carbon from the interior walls of combustion chambers, Process of and apparatus for. G. M. Graham. 2,651,887, Sept. 15.
Removing excess impregnant from impregnated wood. M. S. Hudson. 2,652,347, Sept. 15.
Removing stacked articles, Method of and apparatus for. L. A. Herzig and M. Coan. 2,652,161, Sept. 15.
Reservoir energy and pumping equipment control, Combination. S. W. Woolsey. 2,652,000, Sept. 15.
Resetting device for clinical thermometers. W. E. McCormick. 2,651,943, Sept. 15.
Ring: *See*—
Piston sealing ring.
Riveting machine, Automatic. A. R. Havener. 2,652,167, Sept. 15.
Rod: *See*—
Curtain rod.
Rod joint or coupling. R. W. Weeks. 2,652,274, Sept. 15.
Roller skate wheel. F. G. Negri. 2,652,285, Sept. 15.
Rolling pin. J. Mees, Sr. 2,652,009, Sept. 15.
Rolling strip material, Method of and means for. F. P. Dahlstrom. 2,651,954, Sept. 15.
Rope and cable joint. E. C. Elsner. 2,651,824, Sept. 15.
Rosary assemblage. S. J. Czerwicznik. 2,651,850, Sept. 15.
Rotary connector switch. M. E. Griffins. 2,652,434, Sept. 15.
Rotary disk type homogenizing mill. J. H. Mallinson and C. J. Geyer, Jr. 2,652,201, Sept. 15.
Rotary hydraulic coupling. E. L. Venstrom. 2,651,919, Sept. 15.
Rotary pump. L. B. Harrington. 2,651,999, Sept. 15.
Rotor for compressing machines such as centrifugal blowers and pumps. A. Büchi. 2,652,191, Sept. 15.
Roundness checking gauge. R. D. Kiehl and R. E. Wagenhals. 2,651,845, Sept. 15.
Rubber hose, Making reinforced. F. L. Burton. 2,652,093, Sept. 15.
Rubber stopper and preparing same, Coated. R. R. Umbdenstock. 2,652,182, Sept. 15.
Rubber tire valve. O. W. Hosking. 2,652,067, Sept. 15.
Rupturable crown cap. D. L. Wener. 2,652,165, Sept. 15.
Safety device. R. J. Kutsler. 2,652,065, Sept. 15.
Sanding machine, Belt. S. and H. C. Johannsen. 2,651,891, Sept. 15.
Sandwich cutting block. E. B. Turpin. 2,652,087, Sept. 15.
Sanitary belt. V. W. Carpenter .2,652,058, Sept. 15.
Saturated fatty acids of improved color and color stability, Preparation of. D. E. Terry and D. T. Warner. 2,652,414, Sept. 15.
Sausage link forming machine. A. H. Burnett and J. J. Prohaska. 2,651,808, Sept. 15.
Sawhorse and work support, Convertible. R. P. Worthen. 2,652,079, Sept. 15.
Scalding apparatus, Poultry. R. D. Pitts. 2,651,807, Sept. 15.
Scoring apparatus for bowling games, Automatic. D. S. Alexander. 2,652,252, Sept. 15.
Scotching arrangement, especially for the scotching of rolling loads on railway trucks. R. Porte. 2,652,003, Sept. 15.
Screen for the air intake of jet engines and shields or shutters for the same, Retractable. T. N. Kelly. 2,652,131, Sept. 15.
Screw compressor or fluid motor, Compound-lead. R. Chilton. 2,652,192, Sept. 15.
Sealing medium and cuff for an artificial respirator housing opening, Combined. L. D. Luck and G. K. Norby. 2,652,047, Sept. 15.
Sealing of fluid systems. M. F. Peters. 2,652,223, Sept. 15.
Seat post construction for chairs. G. D. Wood. 2,652,272, Sept. 15.
Seat structure. T. Vigmostad. 2,652,096, Sept. 15.
Seat union, Multiple. J. H. Goode. 2,652,268, Sept. 15.
Securing conductors to outlet boxes, Means for. S. D. J. Dunlap. 2,652,269, Sept. 15.
Seed product, Pelleted. R. M. Hedrick and D. T. Mowry. 2,651,883, Sept. 15.

Selective extraction of substances possessing anti-pernicious anemia activity with diethylacetic acid. J. H. Ford and W. G. Jackson. 2,652,357, Sept. 15.
Self-aligning bearing. L. H. Phillips. 2,652,263, Sept. 15.
Self-contained inverted rectifier. M. Demontvignier. 2,652,528, Sept. 15.
Self-irrigating plant receptacle. J. E. Werner. 2,651,884, Sept. 15.
Self-loading device for shaker conveyers. W. W. Sloane. 2,652,144, Sept. 15.
Self-releasing fishing rod tool. T. M. Hunt and T. L. Nichols. 2,652,231, Sept. 15.
Semiconductor translating device. W. L. Bond, M. Sparks, and G. K. Teal. 2,651,831, Sept. 15.
Sensitising dyes containing a 2-acylamino-5 (4)-thiazolone nucleus. P. Aubert and E. B. Knott. 2,652,397, Sept. 15.
Separating acenaphthene. G. B. Arnold and H. V. Hess. 2,652,438, Sept. 15.
Separating β-chloro-α-alkoxyethylbenzenes from their reaction mixture. F. Grosser. 2,652,431, Sept. 15.
Separating polycyclic aromatic compounds from organic mixtures. H. V. Hess and G. B. Arnold. 2,652,435–6, Sept. 15.
Separation of mixed gases by absorption. M. Benedict. 2,652,129, Sept. 15.
Separator: *See*—
Gas-oil separator.
Series of new 3-amino-2-oxazolidones and the preparation thereof. G. Gever. 2,652,402, Sept. 15.
Servo apparatus, Reversible. E. McCartney and G. J. Watt. 2,652,523, Sept. 15.
Setting protein containing coatings with ammonium. J. E. Jones. 2,652,345, Sept. 15.
Sewing machine for stitching leather cases. J. Heggie. 2,652,014, Sept. 15.
Sheet controlled rotary printing press. C. W. Johnson. 2,651,990, Sept. 15.
Sheet separating and feeding mechanism, Automatic. E. L. Johnson. 2,652,248, Sept. 15.
Shield for transformer coils. L. C. Westphal. 2,652,521, Sept. 15.
Shield, Hand. J. L. Beatty. 2,651,776, Sept. 15.
Shoe upper provided with protective spray cover and forming same. C. G. Newton, Jr. 2,651,856, Sept. 15.
Shoe, Ventilated. F. H. Taber. 2,651,854, Sept. 15.
Shorts. E. G. Dann. 2,652,053, Sept. 15.
Shoulder pad molding apparatus. B. Mechur and W. Riedler. 2,651,809, Sept. 15.
Shutter-governor assembly for motion-picture apparatus. O. Wittel. 2,651,965, Sept. 15.
Sign and making the same, Display. F. E. Tuttle. 2,651,866, Sept. 15.
Sign construction. J. A. Howenstine. 2,651,864, Sept. 15.
Sign structure. J. A. Howenstine. 2,651,863, Sept. 15.
Sign structure. J. A. Howenstine. 2,651,865, Sept. 15.
Signal for telegraph systems, Release. R. M. M. Oberman. 2,652,446, Sept. 15.
Signal seeking tuner. J. H. Guyton. 2,652,486, Sept. 15.
Signal seeking tuner. J. H. Guyton. 2,652,494, Sept. 15.
Signal system, Directional. J. R. Hollins. 2,652,553, Sept. 15.
Siloxane resins. M. J. Hunter and E. J. Smith. 2,652,385, Sept. 15.
Sink dividing partition, Removable. L. G. Johnson and C. S. Johnson. 2,651,784, Sept. 15.
Skid rail structure for forge furnaces. J. D. Nesbitt. 2,652,240, Sept. 15.
Skiving machine. M. H. Roske. 2,651,933, Sept. 15.
Slicer, Bun. A. O. Goldstein. 2,652,086, Sept. 15.
Sliding door. A. T. C. Burrows. 2,651,816, Sept. 15.
Soil additive. R. M. Hedrick and D. T. Mowry. 2,652,379, Sept. 15.
Solid materials consisting of aggregated solid particles, Manufacture of. J. H. McKee. 2,652,318, Sept. 15.
Soluble calcium salt of a copolymer of vinyl acetate and a mono-ester of maleic acid. R. M. Hedrick and D. T. Mowry. 2,652,380, Sept. 15.
Solution of cellulose acetate butyrate. L. L. Yaeger. 2,652,339, Sept. 15.
Solutions of formaldehyde-urea reaction products, Production of. M. A. Klee. 2,652,377, Sept. 15.
Solvent polishing-injection molded articles of cellulose acetate-butyrate. C. H. Coney. 2,651,811, Sept. 15.
Sound-absorbing structure. J. Maser. 2,652,126, Sept. 15.
Sound separation means for carrier frequency difference television receivers. E. L. Crosby, Jr. 2,652,447, Sept. 15.
Spark plug. S. I. Johnson. 2,652,043, Sept. 15.
Spark plug. H. P. Phillips. 2,652,044, Sept. 15.
Splicer, Line. H. D. Davis. 2,652,273, Sept. 15.
Spraying mechanism for livestock cars. J. M. Coyner. 2,652,024, Sept. 15.
Spring clamp. A. D. Carpenter and J. A. Carpenter. 2,651,826, Sept. 15.
Spring package. G. J. Christenson. 2,652,244, Sept. 15.
Square hole drilling bit. J. E. Lucas. 2,652,084, Sept. 15.
Squelch circuit. R. F. Smeltzer, R. B. Edwards, R. C. Baker, Jr., and S. D. Burton. 2,652,488, Sept. 15.
Stabilization of lipoidal substances. H. S. Olcott and T. W. Campbell. 2,652,332, Sept. 15.
Stack construction, Totebox. L. W. Shea and M. J. Osborne. 2,652,174, Sept. 15.
Stack support for sheet feeders. H. F. Bruns. 2,652,249, Sept. 15.
Stand: *See*—
Christmas tree stand.
Stapler, Electrical. T. M. Sasser. 2,651,775, Sept. 15.
Steering knuckle. J. H. Booth and E. C. Warner. 2,652,264, Sept. 15.
Steering knuckle. J. H. Booth and A. W. Gair. 2,652,265, Sept. 15.
Stepladder. G. E. Loucks. 2,652,184, Sept. 15.
Stereoscopic pictures, Making. J. A. Ogle. 2,652,326, Sept. 15.
Stitch retainer, Accidentally dropped knitted. W. Henderson. 2,651,928, Sept. 15.
Stock guide for rolling mills and the like. W. J. Fisher. 2,651,958, Sept. 15.
Stone collector. W. H. Curry. 2,651,902, Sept. 15.
Stop shoulder for recoilless rifle ammunition. E. H. Engelke. 2,651,972, Sept. 15.
Storage and vaporizing apparatus for liquefied petroleum gas mixtures. J. W. Du Rant. 2,651,921, Sept. 15.
Strainer, Pipe line. A. Perrault. 2,652,153, Sept. 15.
Strap, Expansible link. E. Kiefer. 2,651,909, Sept. 15.
Strut platform support. L. S. Williams. 2,652,241, Sept. 15.
Stuffing gland assembly for fluid filled cables. P. N. Bosworth. 2,652,443, Sept. 15.
Sulfonation products, Preparation of. A. Shultz, Jr. 2,652,427, Sept. 15.
Supersensitization of photographic emulsions with complex merocyanine dyes. B. H. Carroll. 2,652,330, Sept. 15.
Supply system for combustible mixture for internal-combustion engines. H. Weslake. 2,652,039, Sept. 15.
Support: *See*—
Camera support. Mobile support.
Curtain support. Strut platform support.
Hose nozzle support. Surgical arm support.
Support for tape. J. W. Gibney. 2,651,792, Sept. 15.
Support structure. S. J. Harasim. 2,652,307, Sept. 15.
Supporting means used in connection with electroplating racks. M. S. Schneider. 2,652,350, Sept. 15.
Surf casting fishing reel. J. M. Holahan, Jr. 2,652,212, Sept. 15.
Surface active media. J. Nüsslein. 2,651,829, Sept. 15.
Surgical arm-support. C. H. Schoeller. 2,652,050, Sept. 15.
Surgical breast, Restoration. M. A. Wright and D. E. Gates. 2,651,783, Sept. 15.
Suspension polymerization of unsaturated organic compounds. W. P. Hohenstein, R. N. Haward, and J. Elly. 2,652,392, Sept. 15.
Sweeper, Carpet. R. S. Wagner, J. M. Hines, and A. J. Duwe. 2,651,796, Sept. 15.
Switch: *See*—
Rotary connector switch.
Switch for automatic pumping units. C. W. Blackburn. 2,651,995, Sept. 15.
Switching apparatus for electron tube capacitance measurements. R. E. Graham. 2,652,534, Sept. 15.
Sync separation and automatic gain control. S. I. Tourshou. 2,652,450, Sept. 15.
System and apparatus for determining the listening habits of wave signal receiver users. S. A. Scherbatskoy. 2,652,310, Sept. 15.
Table: *See*—
Film developing table.
Table or tray, Crossed leg folding. J. W. Bryan. 2,652,299, Sept. 15.
Table with elevating structure, Folding end extensible. D. Graber and H. Graber. 2,652,300. Sept. 15.
Tail pipe terminal silencer. J. G. Johnston. 2,652,127, Sept. 15.
Tank pump down, Automatic. R. R. Cyr. 2,652,188, Sept. 15.
Tape applying movement. A. E. Johnson. 2,652,166, Sept. 15.
Tape support for Venetian blinds. R. H. Wright. 2,652,114, Sept. 15.
Telephone switching arrangement, Nonnumerical. J. Wicks. 2,652,456, Sept. 15.
Temperature measurement. A. J. Miller. 2,652,497, Sept. 15.
Template for lock plate mortises. E. P. Sacrey. 2,651,847, Sept. 15.
Temporary outlet box mounting for use with concrete forms. C. G. Nelson and R. W. Hayden. 2,652,168, Sept. 15.
Tension device for belts. M. F. Green. 2,651,825, Sept. 15.
Tertiary-aminoalkyl derivatives of coumarilic acids and their preparation. R. O. Clinton. 2,652,399, Sept. 15.
Testing apparatus, High-frequency. R. M. Walker. 2,652,535, Sept. 15.
Theft-preventing arrangement for motorcars. H. V. Hueso. 2,652,552, Sept. 15.
Thermocouple. R. M. Scott. 2,652,442, Sept. 15.
Thermoelectric generator. H. G. Pack. 2,652,503, Sept. 15.
Thermometer, Linear response vapor pressure. C. C. Minter. 2,651,942, Sept. 15.

Thread advancing reel. A. W. Eldman and A. H. Wilkelis. 2,651,828, Sept. 15.
Thread clamping mechanism, Sewing machine. R. K. Hohmann. 2,652,017, Sept. 15.
Three-dimensional checker or chess game board. C. D. Rutz. 2,652,255, Sept. 15.
Time compensator, Hydraulic. R. W. Patterson. 2,651,945, Sept. 15.
Tire bead breaking hand tool. E. J. Danroth and A. Petkau. 2,652,103, Sept. 15.
Tire shaping machine. J. H. Braley. 2,651,893, Sept. 15.
Tire traction clamp. B. H. Lantz. 2,652,092, Sept. 15.
Tobacco smoking pipe. A. M. Timpé. 2,652,062, Sept. 15.
Tool: *See*—
Oil well contamination removing tool. — Tire bead breaking hand tool.
Pointed tool. — Wire bending and coiling tool.
Self-releasing fishing rod tool.
Tool for reclaiming broken drill parts, etc., from wells, Hydraulically actuated fishing. S. R. Knapp. 2,652,119, Sept. 15.
Tool for woodworking, Sawing, cutting, and rasping. G. Mannes. 2,652,075, Sept. 15.
Toothbrush case. A. L. Shook. 2,652,064, Sept. 15.
Torque converter for varying speed ratios, Rotary turbine type. O. W. Roosevelt. 2,651,920, Sept. 15.
Torque converter with dynamic braking, Rotary hydraulic. O. K. Kelley and W. S. Wolfram. 2,651,918, Sept. 15.
Torque indicator for torque wrenches. E. T. Able. 2,651,935, Sept. 15.
Totaliser, Electronic coin. J. F. Morrison. 2,652,136, Sept. 15.
Toy. A. L. Valpey. 2,651,851, Sept. 15.
Toy kangaroo. M. I. Glass, J. W. Ehemann, and M. R. Kraus. 2,651,881, Sept. 15.
Toy vehicle and steering means therefor. T. H. Core. 2,651,882, Sept. 15.
Track shifting and adjusting device for magnetic sound recorders and reproducers. E. Keller. 2,652,259, Sept. 15.
Tractor ditch digging attachment. N. M. Gralenski. 2,651,859, Sept. 15.
Transformer, Variable voltage. J. L. Bonanno. 2,652,500, Sept. 15.
Transmission, Automatic. W. B. Barnes. 2,651,949, Sept. 15.
Transmission, Fourteen-speed planetary. C. E. Schou. 2,651,950, Sept. 15.
Transmission operating mechanism. H. W. Price. 2,651,948, Sept. 15.
Tray cabinet. W. J. Gray. 2,652,309, Sept. 15.
Tray, Crumb. R. B. Lawrence. 2,651,925, Sept. 15.
Tray for the blind, Food. V. W. Enslein. 2,651,926, Sept. 15.
Tray structure, Fractionation and distillation. J. M. Ballenger. 2,652,239, Sept. 15.
Truck, Lumber hoist. J. B. Tipps. 2,652,164, Sept. 15.
Truck, Railway. J. C. Travilla, Jr. and W. M. Sheehan. 2,652,001, Sept. 15.
Truck, Snubbed. C. J. Clasen. 2,652,002, Sept. 15.
Truss, Hernia. G. A. Hoover. 2,652,051, Sept. 15.
Tube: *See*—
Negative charge image television transmission tube. — Variable capacitor tube.
Tufting machine, Mattress. A. W. Wanzer, D. G. Way, and F. E. Kalning. 2,652,013, Sept. 15.
Turbine. G. K. W. Boestad and T. I. Lindhagen. 2,652,227, Sept. 15.
Turbine bearing cooling means. L. Islip and S. W. H. Perry. 2,652,294, Sept. 15.
Turbine starting mechanism. A. D. Zakarian. 2,651,910, Sept. 15.
Turbine wheel mounting. A. W. Gaubatz. 2,652,271, Sept. 15.
Turret unit. L. Elliott. 2,651,973, Sept. 15.
2-thenylformaldimines, Preparation of. H. D. Hartough, 2,652,404, Sept. 15.
2,2'-(2,5-lower dialkoxy-p-phenylene)-di-(anthra[2,1] thiazole-6, 11-diones). N. W. Solonen and D. I. Randall. 2,652,400, Sept. 15.
Unipolarized wave refractor. W. E. Kock. 2,652,493, Sept. 15.
Uniting solids with the aid of binding and adhesive agents. I. G. C. Dryden and J. H. McKee. 2,652,354, Sept. 15.
Universal connection for electric service cords. R. M. Christner. 2,652,546, Sept. 15.
Utility and spectacle case. M. K. Cramer. 2,652,069, Sept. 15.
Valve: *See*—
Gasoline tank truck valve. — Rubber tire valve.
Locking stem adjustment valve.
Valve. S. O. Morrison. 2,652,071, Sept. 15.
Valve. W. H. Warstler. 2,651,985, Sept. 15.
Valve control, Diaphragm. R. C. Main. 2,652,110, Sept. 15.
Valve for controlling the flow of solids laden liquid, Plug. N. L. Davis. 2,652,175, Sept. 15.
Valve for dispensing apparatus and the like, Collapsible. D. A. McCowan. 2,652,222, Sept. 15.
Valve operating mechanism, Pressure fluid actuated. H. J. Shafer. 2,652,033, Sept. 15.
Vapor detector, Electrical. P. D. Zemany. 2,652,532, Sept. 15.
Variable capacitor tube. W. C. Freeman, Jr. 2,652,518, Sept. 15.
Vehicle mud flap. G. C. Miller. 2,652,266, Sept. 15.
Venetian blind. B. Walker. 2,652,111, Sept. 15.
Venetian blind bottom weights. B. Walker. 2,652,112, Sept. 15.
Venetian blind head rail assembly. E. E. Schaefer. 2,652,113, Sept. 15.
Vibrating mechanism. G. L. Oswalt. 2,651,827, Sept. 15.
Violin rest. R. H. Heimers. 2,651,961, Sept. 15.
Vise, including a presettable, lever-actuated, jaw locking means, Sliding jaw. D. K. Harrington. 2,651,959, Sept. 15.
Wall mounting for clocks. L. K. Fargo. 2,651,908, Sept. 15.
Washing and drying machine. G. Markovich. 2,651,892, Sept. 15.
Water-gas generation. S. B. Sweetser and W. G. Scharmann. 2,652,319, Sept. 15.
Water-holding and dispensing receptacle. N. W. Roop. 2,652,283, Sept. 15.
Water resistant paper coatings and making same from urea formaldehyde, ammonium metaphosphate, amylaceous material and clay. R. N. Thompson. 2,652,374, Sept. 15.
Water shoe. L. A. Geiger. 2,651,790, Sept. 15.
Watering device, Poultry. L. D. Banks. 2,652,028, Sept. 15.
Web printing press. W. Säuberlich. 2,651,992, Sept. 15.
Web roll winder. G. Baechli. 2,652,206, Sept. 15.
Weed cutter. E. Schlueter. 2,651,907, Sept. 15.
Weighing mechanism for solids, Continuous. F. E. Gilmore. 2,652,141, Sept. 15.
Weighing scale lens frame mounting. N. E. Hart. 2,652,020, Sept. 15.
Weld L cutting and beveling machine, Vertical. W. R. Reed. 2,652,243, Sept. 15.
Welding electrode holder. E. W. Huebner. 2,652,472, Sept. 15.
Wetting test device. D. E. Marnon and F. C. Snowden. 2,651,936, Sept. 15.
Wheel: *See*—
Electrically heated steering wheel. — Grinding wheel.
Flexible abrasive wheel. — Impeller wheel.
Roller skate wheel.
Wheel aligning ring for vehicles, Dual. J. F. Kane. 2,652,091, Sept. 15.
Wheel slip protective system. R. M. Smith. 2,652,555, Sept. 15.
Wheel structure. G. A. Lyon. 2,652,286–7, Sept. 15.
Wheel support with a circumferentially and axially movable toolholder. H. M. Rockwell. 2,652,078, Sept. 15.
Wheel tilting mechanism for automobiles. R. O. Varnum. 2,652,263, Sept. 15.
Whip action device for the head of golf clubs. W. H. Thomas. 2,652,256, Sept. 15.
Wide band frequency modulation, Method and means for. J. W. Kearney and W. R. Rambo. 2,652,539, Sept. 15.
Winch. A. C. Hoyle and H. Knutson. 2,652,230, Sept. 15.
Windshield cleaner system. E. C. Horton. 2,651,801, Sept. 15.
Windshield wiper. J. R. Picon. 2,651,800, Sept. 15.
Windshield wiper, Electric. G. G. Kearful. 2,651,802, Sept. 15.
Wire bending and coiling tool. R. Cantu. 2,652,074, Sept. 15.
Wire recording storage mechanism for bookkeeping machines. J. L. Sterling. 2,652,196, Sept. 15.
Wood bit. J. V. Emmons. 2,652,083, Sept. 15.
Wrapping machine. B. Heilman. 2,651,900, Sept. 15.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 15, 1953

NOTE.—First number—class, second number—subclass, third number—patent number

1– 3: 2,651,775
2– 16: 2,651,776
37: 2,651,777
41: 2,651,778
42: 2,651,779
67: 2,651,780
69.5: 2,651,781
122: 2,651,782
3– 1: 2,651,783
4– 183: 2,651,784
5– 63: 2,651,785
93: 2,651,786
183: 2,651,787
242: 2,651,788
8–151.1: 2,652,311
9– 1: 2,651,789
21: 2,651,790
10– 108: 2,651,791
120: 2,651,792
12– 24.5: 2,651,793
139: 2,651,794
13– 11: 2,652,440
26: 2,652,441
15– 27: 2,651,795
48: 2,651,796
153: 2,651,797
2,651,798
2,651,799
245: 2,651,800
253: 2,651,801
2,651,802
373: 2,651,803
16– 111: 2,651,804
135: 2,651,805
158: 2,651,806
17– 11.2: 2,651,807
34: 2,651,808
18– 20: 2,651,809
42: 2,651,810
47: 2,652,312
48: 2,651,811
19– 72: 2,651,812
20– 11: 2,651,813
2,651,814
16: 2,651,815
19: 2,651,816
2,651,817
55: 2,651,818
64: 2,651,819
75: 2,651,820
22– 57.2: 2,651,821
90: 2,651,822
184: 2,651,823
23– 209.8: 2,652,313
230: 2,652,314
255: 2,652,315
270.5: 2,652,316
288: 2,652,317
24–122.6: 2,651,824
163: 2,651,825
257: 2,651,826
25– 41: 2,651,827
28– 71.7: 2,651,828
72.3: 2,651,829
29– 23.5: 2,651,830
25.2: 2,651,831
36: 2,651,832
155.5: 2,651,833
155.54: 2,651,834
197.5: 2,651,835
252: 2,651,836
266: 2,651,837
30– 9: 2,651,838
125: 2,651,839
151: 2,651,840
32– 63: 2,651,841
33– 1: 2,651,842
27: 2,651,843
75: 2,651,844
147: 2,651,845
172: 2,651,846
197: 2,651,847
215: 2,651,848
34– 155: 2,651,849
35– 23: 2,651,850
31: 2,651,851
63: 2,651,852
36– 2.5: 2,651,853
3: 2,651,854
22: 2,651,855
72: 2,651,856
2,651,857
37– 98: 2,651,858
139: 2,651,859
144: 2,651,860
38– 117: 2,651,861
40– 4: 2,651,862
130: 2,651,863
2,651,864
2,651,865
132: 2,651,866
152: 2,651,867
41– 5: 2,651,868
9: 2,651,869
10: 2,651,870
26: 2,651,871
42– 1: 2,651,872
43– 3: 2,651,873
6.5: 2,651,874
17: 2,651,875
42.22: 2,651,876
42.41: 2,651,877
137: 2,651,878
44– 15: 2,652,316
46– 88: 2,651,879
98: 2,651,880
123: 2,651,881
201: 2,651,882
47– 1: 2,651,883
38: 2,651,884
58: 2,651,885
2,651,886
48– 206: 2,652,319
51– 8: 2,651,887
33: 2,651,888
100: 2,651,889
101: 2,651,890
135: 2,651,891
164: 2,651,892
179: 2,651,893
193.5: 2,651,894
216: 2,651,895
226: 2,652,320
2,652,321
53– 45: 2,651,896
89: 2,651,897
91: 2,651,898
98: 2,651,899
2,651,900
55– 9: 2,651,901
17: 2,651,902
56– 11: 2,651,903
249: 2,651,904
255: 2,651,905
257: 2,651,906
2,651,907
58– 56: 2,651,908
59– 79: 2,651,909
60–30.14: 2,651,910
39.15: 2,651,911
39.65: 2,651,912
39.74: 2,651,913
51: 2,651,914
52: 2,651,915
54: 2,651,916
2,651,917
2,651,918
2,651,919
2,651,920
62– 1: 2,651,921
124: 2,651,922
126: 2,651,923
65– 20: 2,651,924
2,651,925
53: 2,651,926
65: 2,651,927
66– 1.5: 2,651,928
24: 2,651,929
86: 2,651,930
67– 71: 2,651,931
68– 20: 2,651,932
69– 9.5: 2,651,933
70– 146: 2,651,934
71– 2.7: 2,652,322
71– 2.7: 2,652,323
73– 1: 2,651,935
53: 2,651,936
66: 2,651,937
290: 2,651,938
301: 2,651,939
304: 2,651,940
337: 2,651,941
369: 2,651,942
373: 2,651,943
74– 504: 2,651,944
589: 2,651,945
711: 2,651,946
722: 2,651,947
731: 2,651,948
752: 2,651,949
759: 2,651,950
75– 130: 2,652,324
77– 62: 2,651,951
78– .5: 2,651,952
80– 5.1: 2,651,953
38: 2,651,954
51: 2,651,955
58: 2,651,956
81– 2.36: 2,651,957
15: 2,651,958
17: 2,651,959
84– 102: 2,651,960
261: 2,651,961
85– 6: 2,651,962
86– 14: 2,651,963
17: 2,651,964
2,651,965
18.7: 2,651,966
24: 2,651,967
28: 2,651,968
40: 2,651,969
57: 2,651,970
65: 2,651,971
89– 1.7: 2,651,972
36: 2,651,973
157: 2,651,974
90– 11: 2,651,975
92– 1: 2,652,325
26: 2,651,976
93– 55.1: 2,651,977
94– 5: 2,651,978
48: 2,651,979
2,651,980
96– 2: 2,652,326
2,652,327
2,652,328
6: 2,652,329
7: 2,652,330
86: 2,651,981
88: 2,652,331
91: 2,651,982
97–46.87: 2,651,983
47.16: 2,651,984
98– 1.5: 2,651,985
2: 2,651,986
116: 2,651,987
99– 2: 2,652,332
80.5: 2,652,333
148: 2,652,334
171: 2,652,335
179: 2,652,336
225: 2,652,337
101– 122: 2,651,988
127: 2,651,989
233: 2,651,990
408: 2,651,991
416: 2,651,992
102– 80: 2,651,993
103– 2: 2,651,994
25: 2,651,995
27: 2,651,996
44: 2,651,997
108: 2,651,998
161: 2,651,999
203: 2,652,000
105– 198: 2,652,001
197: 2,652,002
268: 2,652,003
360: 2,652,004
2,652,005
419: 2,652,006
106– 39: 2,652,338
179: 2,652,339
181: 2,652,340
277: 2,652,341
285: 2,652,342
287: 2,652,343
307: 2,652,344
107– 8: 2,652,007
2,652,008
80: 2,652,009
108– 18: 2,652,010
104: 2,652,011
111– 92: 2,652,012
112– 3: 2,652,013
40: 2,652,014
160: 2,652,015
225: 2,652,016
255: 2,652,017
114– 180: 2,652,018
115– 34: 2,652,019
116– 129: 2,652,020
117– 34: 2,652,345
85: 2,652,346
102: 2,652,347
128.5: 2,652,348
130.4: 2,652,349
118– 2: 2,652,021
260: 2,652,022
305: 2,652,023
119– 7: 2,652,024
27: 2,652,025
58: 2,652,026
71: 2,652,027
74: 2,652,028
120– 30: 2,652,029
42.08: 2,652,030
42.4: 2,688,681
2,652,082
121– 38: 2,652,033
102: 2,652,034
120: 2,652,035
122– 135: 2,652,036
510: 2,652,037
123– 52: 2,652,038
119: 2,652,040
140: 2,652,041
142.5: 2,652,042
169: 2,652,043
3,652,044
185: 2,652,045
198: 2,652,046
126– 30: 2,652,047
39: 2,652,048
58: 2,652,049
94: 2,652,050
100: 2,652,051
134: 2,652,052
139: 2,652,053
214: 2,652,054
283: 2,652,055
285: 2,652,056
287: 2,652,057
291: 2,652,058
120–16.8: 2,652,059
131– 7: 2,652,060
107: 2,652,061
194: 2,652,062
133– 43: 2,652,063
84: 2,652,064
134– 23: 2,652,350
136– 4: 2,652,442
137– 66: 2,652,065
85: 2,652,066
223: 2,652,067
266: 2,652,068
271: 2,652,069
326: 2,652,070
630.22: 2,652,071
139– 124: 2,652,072
145: 2,652,073
164: 2,652,074
140– 124: 2,652,075
143– 133: 2,652,076
135: 2,652,076
144– 178: 2,652,077
2-8: 2,652,078
2,652,079
144– 307: 2,652,080
309: 2,652,081
145– 30: 2,652,082
117: 2,652,083
122: 2,652,084
146– 28: 2,652,085
72: 2,652,086
150: 2,652,087
150– 9: 2,652,088
38: 2,652,089
47: 2,652,090
182– 220: 2,652,091
228: 2,652,092
184– 2: 2,652,093
16: 2,652,094
42: 2,652,095
53.5: 2,652,351
108: 2,652,352
138: 2,652,353
142: 2,652,354
156– 14: 2,652,096
22: 2,652,097
139: 2,652,098
147: 2,652,099
150: 2,652,100
177: 2,652,101
197: 2,652,102
157– 1.17: 2,652,103
158– 12.6: 2,652,104
27.4: 2,652,105
28: 2,652,106
115: 2,652,107
118: 2,652,108
124: 2,652,109
2,652,110
160– 108: 2,652,111
173: 2,652,112
177: 2,652,113
178: 2,652,114
164– 84.5: 2,652,115
113: 2,652,116
166– 1: 2,652,117
13: 2,652,118
19: 2,652,119
20: 2,652,120
167– 58: 2,652,355
65: 2,652,356
81: 2,652,357
170– 159: 2,652,121
160.2: 2,652,122
160.88: 2,652,123
174– 19: 2,652,443
60: 2,652,444
77: 2,652,445
178– 4.1: 2,652,446
5.8: 2,652,447
6.6: 2,652,448
6.8: 2,652,449
7.3: 2,652,450
66: 2,652,451
70: 2,652,452
179– 15: 2,652,453
18: 2,652,454
2,652,455
27.82: 2,652,456
158: 2,652,457
171: 2,652,458
2,652,459
2,652,460
180– 14: 2,652,124
82: 2,652,125
181– 33: 2,652,126
41: 2,652,127
64: 2,652,128
182– 2: 2,652,129
2.7: 2,652,130
183– 62: 2,652,131
188– 75: 2,652,132
189– 82: 2,652,133
191– 1: 2,652,461
192– 14: 2,652,134
150: 2,652,135
194– 6: 2,652,136
198– 21: 2,652,137
32: 2,652,138
33: 2,652,139
2,652,140
198– 26: 2,652,141
176: 2,652,142
182: 2,652,143
220: 2,652,144
199– 1: 2,652,145
200– 19: 2,652,462
82: 2,652,463
93: 2,652,464
116: 2,652,465
121: 2,652,466
132: 2,652,467
138: 2,652,468
144: 2,652,469
172: 2,652,470
201– 55: 2,652,471
204– 197: 2,652,358
207: 2,652,359
206– 7: 2,652,146
44: 2,652,147
47: 2,652,148
2,652,149
209– 106: 2,652,150
210– 124: 2,652,151
131: 2,652,152
167: 2,652,153
211– 49: 2,652,154
105.2: 2,652,155
105.3: 2,652,156
212– 98: 2,652,157
213– 8: 2,652,158
221: 2,652,159
214– 2.5: 2,652,160
3.5: 2,652,161
14.1: 2,652,162
518: 2,652,163
672: 2,652,164
215– 48: 2,652,165
216– 21: 2,652,166
218– 2: 2,652,167
219– 4: 2,652,472
10: 2,652,473
2,652,474
14: 2,652,475
19: 2,652,476
22: 2,652,477
47: 2,652,478
220– 3.4: 2,652,168
24: 2,652,169
40: 2,652,170
55: 2,652,171
63: 2,652,172
87: 2,652,173
222– 185: 2,652,174
195: 2,652,175
361: 2,652,176
209: 2,652,177
223– 37: 2,652,178
91: 2,652,179
226– 16: 2,652,180
20.8: 2,652,181
89: 2,652,182
227– 49: 2,652,183
228– 31: 2,652,184
229– 35: 2,652,185
38: 2,652,186
54: 2,652,187
230– 2: 2,652,188
7: 2,652,189
134: 2,652,190
2,652,191
142: 2,652,192
230: 2,652,193
235– 61: 2,652,194
2,652,195
61.9: 2,652,196
132: 2,652,197
2,652,198
144: 2,652,199
236– 45: 2,652,200
240– 2.16: 2,652,470
4.2: 2,652,480
6.44: 2,652,481
11.2: 2,652,482
51.12: 2,652,483
54: 2,652,484
81: 2,652,485
241– 148: 2,652,201

241— 255: 2,652,202
242— 35.5: 2,652,203
54: 2,652,204
55.5: 2,652,205
58: 2,652,206
2,652,207
66: 2,652,208
71: 2,652,209
2,652,210
84.4: 2,652,211
2,652,212
120: 2,652,213
244— 50: 2,652,214
2,652,215
74: 2,652,216
248— 48: 2,652,217
86: 2,652,218
120: 2,652,219
187: 2,652,220
278: 2,652,221
250— 20: 2,652,486
2,652,487
2,652,488
27: 2,652,489
2,652,490
2,652,491
33: 2,652,492
33.63: 2,652,493
40: 2,652,494
41.9: 2,652,495
43.5: 2,652,496
2,652,497
98: 2,652,498
77: 2,652,499
251— 5: 2,652,222
31: 2,652,223
35: 2,652,224
152: 2,652,225
163: 2,652,226
252— 3.55: 2,652,360
21: 2,652,361
28: 2,652,362
34.7: 2,652,363
40: 2,652,364
41: 2,652,365
253— 41: 2,652,366
46.7: 2,652,367
48.2: 2,652,368
56: 2,652,369
326: 2,652,370
448: 2,652,371
69: 2,652,227
175: 2,652,228
254— 47: 2,652,229
173: 2,652,230
255— 26: 2,652,231
72: 2,652,232
257— 130: 2,652,233
259— 4: 2,652,234
84: 2,652,235
144: 2,652,236
260— 2: 2,652,372
17.2: 2,652,373
17.3: 2,652,374
2,652,375
18: 2,652,376
29.4: 2,652,377
30.4: 2,652,378
41: 2,652,379
2,652,380
2,652,381
44: 2,652,382
2,652,383
45.5: 2,652,384
46.5: 2,652,385
49: 2,652,386
73: 2,652,387
75: 2,652,388
77.5: 2,652,389
80.5: 2,652,390
85.5: 2,652,391
86.7: 2,652,392
88.7: 2,652,393
200: 2,652,394
230.75: 2,652,395
240.1: 2,652,396
240.4: 2,652,397
288: 2,652,398
294.3: 2,652,399
303: 2,652,400
300— 306: 2,652,401
307: 2,652,402
326: 2,652,403
329: 2,652,404
330.5: 2,652,405
343: 2,652,406
347.4: 2,652,407
389: 2,652,408
404: 2,652,409
404.5: 2,652,410
408: 2,652,411
412.5: 2,652,412
413: 2,652,413
419: 2,652,414
450: 2,652,415
461: 2,652,416
469: 2,652,417
475: 2,652,418
2,652,419
2,652,420
2,652,421
2,652,422
2,652,423
2,652,424
2,652,425
800: 2,652,426
806: 2,652,427
556: 2,652,428
563: 2,652,429
583: 2,652,430
611: 2,652,431
614: 2,652,432
666: 2,652,433
671: 2,652,434
674: 2,652,435
2,652,436
2,652,437
2,652,438
676: 2,652,439
261— 18: 2,652,237
114: 2,652,238
2,652,239
263— 6: 2,652,240
265— 47: 2,652,241
266— 21: 2,652,242
266— 23: 2,652,243
267— 9: 2,652,244
268— 21: 2,652,245
270— 81: 2,652,246
271— 2.4: 2,652,247
39: 2,652,248
61: 2,652,249
273— 36: 2,652,250
35: 2,652,251
38: 2,652,252
54: 2,652,253
62: 2,652,254
126: 2,652,255
170: 2,652,256
274— 10: 2,652,257
2,652,258
20: 2,652,259
37: 2,652,260
275— 8: 2,652,261
280—33.06: 2,652,262
95: 2,652,263
96.2: 2,652,264
2,652,265
154.5: 2,652,266
282— 28: 2,652,267
285— 122: 2,652,268
287— 20: 2,652,269
53: 2,652,270
52.06: 2,652,271
58: 2,652,272
113: 2,652,273
119: 2,652,274
292— 17: 2,652,275
108: 2,652,276
332: 2,652,277
294— 18: 2,652,278
50.9: 2,652,279
88: 2,652,280
102: 2,652,281
299— 47: 2,652,282
103: 2,652,283
140: 2,652,284
301— 5.7: 2,652,285
37: 2,652,286
2,652,287
302— 00: 2,652,288
2: 2,652,289
2,652,290
307— 2: 2,652,500
88: 2,652,501
108: 2,652,502
149: 2,652,503
308— 29: 2,652,291
88: 2,652,292
72: 2,652,293
77: 2,652,294
174: 2,652,295
180: 2,652,296
189: 2,652,297
309— 44: 2,652,298
310— 42: 2,652,504
67: 2,652,505
71: 2,652,506
112: 2,652,507
173: 2,652,508
236: 2,652,509
311— 83: 2,652,299
90: 2,652,300
312— 35: 2,652,301
38: 2,652,302
2,652,303
94: 2,652,304
138: 2,652,305
207: 2,652,306
255: 2,652,307
311: 2,652,308
328: 2,652,309
313— 54: 2,652,510
315— 1: 2,652,511
2,652,512
3: 2,652,513
9: 2,652,514
11: 2,652,515
40: 2,652,516
58: 2,652,517
2,652,518
170: 2,652,519
317— 201: 2,652,520
208: 2,652,521
234: 2,652,522
318— 24: 2,652,523
28: 2,652,524
347: 2,652,525
372: 2,652,526
478: 2,652,527
321— 36: 2,652,528
323— 101: 2,652,529
324— 6: 2,652,530
14: 2,652,531
33: 2,652,532
47: 2,652,533
60: 2,652,534
95: 2,652,535
332— 18: 2,652,536
28: 2,652,537
2,652,538
29: 2,652,539
333— 14: 2,652,540
2,652,541
71: 2,652,542
2,652,543
95: 2,652,544
336— 135: 2,652,545
339— 7: 2,652,546
76: 2,652,547
124: 2,652,548
196: 2,652,549
340— 7: 2,652,550
81: 2,652,551
63: 2,652,552
81: 2,652,553
174: 2,652,554
288: 2,652,555
324: 2,652,556
376: 2,652,557
343— 105: 2,652,558
2,652,559
2,652,560
2,652,561
2,652,562
346— 37: 2,652,310

CLASSIFICATION OF DESIGNS

D 3—13: Des. 170,398
Des. 170,399
26: Des. 170,416
Des. 170,430
D 9— 2: Des. 170,401
Des. 170,438
D14— 3: Des. 170,424
30: Des. 170,421
D14—30: Des. 170,422
D20— 4: Des. 170,419
D22— 6: Des. 170,417
D33—14: Des. 170,420
D34— 2: Des. 170,436
15: Des. 170,427
D44— 1: Des. 170,404
9: Des. 170,409
D45— 4: Des. 170,403
D46— 1: Des. 170,428
D47— 7: Des. 170,405
Des. 170,406
Des. 170,407
D52— 1: Des. 170,396
2: Des. 170,411
Des. 170,412
D53— 2: Des. 170,413
Des. 170,414
Des. 170,415
D54— 2: Des. 170,434
7: Des. 170,408
D56— 4: Des. 170,394
D57— 1: Des. 170,435
D58— 4: Des. 170,433
D58— 6: Des. 170,426
26: Des. 170,395
D62— 4: Des. 170,431
D66— 1: Des. 170,400
D74— 1: Des. 170,410
Des. 170,423
Des. 170,429
Des. 170,432
D63— 1: Des. 170,437
D64—10: Des. 170,418
D87— 3: Des. 170,402
5: Des. 170,397
D91— 1: Des. 170,425

U. S. GOVERNMENT PRINTING OFFICE: 1953

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE ODEEN

No. 5963. Decided April 15, 1953

[207 F.2d 766; — USPQ —]

1. CLAIMS—BROADER THAN INVENTION—MUST BE LIMITED TO OPERATIVE PROCEDURE.
Where it is admitted that certain proportions of ingredients in a composition are critical in a process employing the composition, *Held* that a claim which is not limited to those proportions does not point out and distinctly claim the invention as required by statute.
2. PATENTABILITY — PARTICULAR SUBJECT MATTER — METHOD OF RECOVERING OIL FROM SPENT EARTH.
A certain claim to a method of removing oil from spent earth, *Held* properly rejected as non-statutory.

APPEAL from the Patent Office. Serial No. 761,165.

AFFIRMED.

H. C. Bierman for appellant.

E. L. Reynolds (*S. W. Cochran* of counsel) for the Commissioner of Patents.

O'CONNELL, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner in finally rejecting claim 25 of appellant's application for a patent on a method of recovering oil from spent earth. Fifteen claims were allowed by the Examiner, 1–3, 7, 13–16, and 18–24. No prior art is involved in the rejection of the appealed claim which sufficiently discloses the nature of the involved process and reads as follows:

25. In a method of treating spent earth containing glyceride oil, the step which comprises treating said earth with an aqueous solution consisting essentially of sodium carbonate and sodium chloride at elevated temperatures.

The Examiner held that the limitations of claim 25 fail to define the invention and include an inoperative procedure:

As pointed out in the last Office action applicant has argued that the lower limits of the proportions of salt and solution employed is a critical aspect of his invention. Moreover it appears that applicant's process would not be operative with any and all combinations of sodium chloride and sodium carbonate.

[1] The Board in sustaining the Examiner noted that in his own disclosure appellant admits certain specific proportions of the sodium chloride and the sodium carbonate are necessary to make his method work. Appellant likewise admits in his brief on appeal that certain minimum proportions of the salts employed are critical in carrying out the process. Since these proportions are not defined by the limitations of the claim, the claim does not point out or distinctly claim the invention as required by the statute.

[2] The decision of the Board of Appeals is accordingly affirmed.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

IN RE SCHECHTER ET AL.

No. 5935. Decided June 3, 1953

[— F.2d —; 90 USPQ 144]

1. CLAIMS—INDEFINITE—NEGATIVE LIMITATION.
Where a claim is so worded as to exclude what the applicant did not invent rather than particularly and distinctly pointing out what he did invent, as by seeking to establish a monopoly to all of a genus excepting two prior art compounds, *Held* that the claim includes a negative limitation which renders it indefinite and unpatentable, and this is particularly clear where the applicant urges that there is a high degree of unpredictability in the art involved.
2. SAME—SAME—NEGATIVE LIMITATION IN FORM OF POSITIVE STATEMENT RENDERS CLAIM INDEFINITE.
Held that a claim which, in affirmative terms, includes all compounds in a group excepting those which are shown in the prior art, is indefinite and unpatentable, because "—in determining whether part of a claim is a negative limitation of the type which renders a claim fatally indefinite, we must look to the substance and not the mere form of the language in which the claim is cast."
3. APPEAL TO U. S. COURT OF CUSTOMS AND PATENT APPEALS—PATENT OFFICE DECISIONS PERSUASIVE ON QUESTION OF INVENTION.
Rule restated that "concurrent findings of lack of inventive novelty by the Patent Office tribunals are not conclusive upon this court, but they are persuasive since those tribunals presumably are familiar with the art."
4. CLAIMS—MARKUSH GROUPING—ANTICIPATION OF ONE OF GROUP RENDERS ENTIRE GROUP UNPATENTABLE.
Held that if it be found that a Markush group includes one or more members known to be old in the art for the claimed purpose, "the group in its entirety must fail of recognition in exactly the same manner as would have been the case had the group of elements of the claim been identified by a single term."
5. SAME—SAME—IF PART ANTICIPATED, REMAINDER OF GROUP MAY BE PATENTABLE.
If one or more of a Markush group is anticipated in the art, *Held* that "—a formula of lesser scope may be invoked, provided that the remaining members of the group have a common quality which is distinctive from the characteristics of the major group, and which itself imparts patentable merit to the sub-group over the generic group."

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6. SAME—SAME—WHERE PROPER.

"A Markush grouping is proper where the substances grouped have a community of chemical and physical characteristics which justify their inclusion in a common group, and such inclusion is not repugnant to the principles of scientific classification."

7. PATENTABILITY—COMPOSITION OF MATTER—HOMOLOGS AND ISOMERS MAY BE PATENTABLE IF INVENTIVE.

Although a novel useful chemical compound which is homologous or isomeric with compounds of the prior art is unpatentable unless it possesses some unobvious or unexpected beneficial property, *Held* that homologs and isomers may be patentable if they are inventive over known prior art compounds.

8. SAME—SAME—INSECTICIDE FIELD UNPREDICTABLE.

Held that "there is a considerable degree of unpredictability in the insecticide field with homologs, isomers and analogs of known effective insecticides having proven ineffective as insecticides."

9. APPEAL TO U. S. COURT OF CUSTOMS AND PATENT APPEALS—COURT MAY CONSIDER ALLOWED CLAIMS.

Although the allowability of an appealed claim is not controlled by the fact that similar claims have been allowed in the Patent Office, *Held* that "similar claims allowed by the Patent Office tribunals furnish evidence of what features those tribunals regard as patentable, and we think it proper, and sometimes necessary, to consider allowed claims in order to fully determine the views of the Board and the Examiner."

10. PATENTABILITY—PARTICULAR SUBJECT MATTER—SYNTHETIC CYCLOPENTENOLONE.

Certain claims to a synthetic cyclopentenolone, *Held* properly rejected as indefinite and a certain other claim to material of the same type, *Held* to define invention over the cited prior art.

APPEAL from the Patent Office. Serial No. 75,282.

MODIFIED.

T. A. Seegrist (*L. M. Mantell* of counsel) for appellants.

E. L. Reynolds (*J. Schimmel* of counsel) for the Commissioner of Patents.

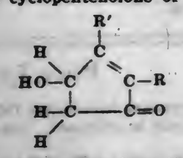
JOHNSON, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the action of the Primary Examiner in finally rejecting claims 17, 19, 20, 21, 23, 46, 47 and 48 of appellants' application, Serial No. 75,282, for a patent on "Synthesis of 4-Hydroxy-2-Cyclopenten-1-Ones." All appealed claims are product claims. Twelve method claims and one product claim, claim 18, were allowed by the Examiner.

Claims 19, 20, 21 and 23 have been rejected as drawn to non-elected species and that rejection is not challenged by appellants. Accordingly, those claims will not be considered on their merits by this court. See *In re Jones*, 34 CCPA (Patents) 1168, 162 F.2d 638, 74 USPQ 152.

Appealed claims 17, 46, 47 and 48 read as follows:

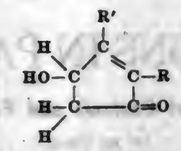
17. A synthetic cyclopentenolone of the formula:



in which R′ is a radical taken from the group consisting of alkyl, alkenyl and aryl and R is an alkenyl radical *other than 2-butenyl and 2,4-pentadienyl.*

46. A racemic synthetic compound of the formula defined in claim 17.

47. A synthetic 4-hydroxy cyclopentenolone of the formula:



in which *R is a hydrocarbon radical taken from the group consisting of those having less than four and those having more than five carbon atoms*, the R radical having at least one olefinic double bond, and in which R′ is a hydrocarbon radical.

48. A 4-hydroxy cyclopentenone of the group consisting of 2-allyl-4-hydroxy-3-methyl-2-cyclopenten-1-one; 4-hydroxy - 3 - methyl - 2 - (2 - methylallyl) - 2 - cyclopenten - 1-one; *synthetic racemic 2-(2-butenyl)-4-hydroxy-3-methyl-2-cyclopenten-1-one, the semi-carbazone of which has a melting point with decomposition at about 222–223° C.*; 2 - (3 - butenyl) - 4 - hydroxy - 3 - methyl - 2 - (3 - methyl-2-butenyl)-2-cyclopenten-1-one; 4-hydroxy-3-methyl-2-cyclopenten-1-one; and 2-allyl-4-hydroxy-3-phenyl-2-cyclopenten-1-one.

The present application relates to the preparation of a new class of synthetic organic compounds called cyclopentenolones, which are used as intermediates in the synthesis of pyrethrinlike insecticides by esterifying the said cyclopentenolones. Appellants state that they believe they are the first to succeed in synthesizing pyrethrinlike insecticides. Heretofore, according to appellants, the sole source of pyrethrin insecticides has been from the natural products, mainly from the pyrethrum flower, grown primarily in Kenya Colony, Africa. It appears from the record that this class of natural insecticides consisted of two known natural pyrethrins and two natural cinerins.

The preparation of the cyclopentenolones here claimed required the synthesis of a new class of hydroxydiketone compounds to be used as starting materials. Those starting material compounds are covered by allowed claims in appellants' divisional application, Serial No. 168,142, which has issued as U. S. Patent No. 2,574,500.

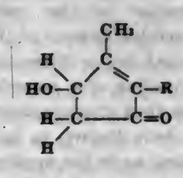
The final synthetic pyrethrinlike insecticides which are esters of the cyclopentenolones of the appealed claims are covered in allowed claims in another divisional application, Serial No. 161,481, issued as U. S. Patent No. 2,603,652.

Appellants claim the inventions of these three applications have led to a new industry devoted to production of synthetic pyrethrinlike insecticides having special desirable properties not possessed by the natural pyrethrins.

The process required to make the claimed cyclopentenolones essentially comprises the following steps: Pyruvaldehyde (CH_3COCHO), or other substituted glyoxal, is reacted with a sodium salt of a beta-keto acid thereby yielding a hydroxydiketone of the type covered in appellants' Patent No. 2,574,500. The hydroxydiketone so produced is cyclized to yield the cyclopentenolones of the appealed claims by treating them with a cyclizing agent, such as an aqueous alkali, in accordance with the method of the allowed process claims in the instant case.

The sole reference relied on by the Patent Office tribunals is: La Forge et al., Journal of the American Chemical Society, vol. 69, page 186, January 1947.

The La Forge et al. article discloses that the alcoholic-ketonic components of the natural pyrethrins have been shown to consist of pyrethrolone and cinerolone which are cyclopentenolones probably having the structure



wherein R is the 2,4 pentadienyl radical ($—CH_2—CH=CH—CH=CH_2$), and the 2-butenyl radical ($—CH_2—CH=CH—CH_3$), respectively. These keto-alcohol components are made through scission, i. e., breaking down, of the natural pyrethrins which are esters of the said keto-alcohol components. Hence, as the Examiner pointed out, the old compounds pyrethrolone and cinerolone are not actually "natural" compounds, but they have been consistently identified as such by the Examiner, the Board, and appellants, apparently for convenience.

All of the appealed claims have been rejected by the Examiner as unpatentable over the La Forge et al. reference. The Examiner also rejected claims 17, 46, and 47 as indefinite, and claim 48 was rejected as setting up an improper Markush group. The Board affirmed all of these rejections for substantially the same reasons advanced by the Examiner.

In rejecting claim 17 as indefinite, the Examiner stated:

It is seen that "R" in the structural formula of this claim is defined as "an alkenyl radical other than 2-butenyl and 2,4-pentadienyl." The latter expression is of negative nature and is considered to render the claim indefinite. The claim does not point out which of all the many possible "alkenyl" radicals are of any special advantage and constitute the invention. To the contrary, this is an improper attempt to claim all compounds except those of the prior art. *In re Langdon*, [22 CCPA (Patents) 1245] 77 F.2d 920, 25 USPQ 415: *In re Rose*, [37 CCPA (Patents) 1034] 182 F.2d 198, 86 USPQ 77.

Claim 47 was rejected as indefinite similarly to claim 17.

Appellants concede here, as they did before the Patent Office tribunals, that the La Forge et al. article discloses two cyclopentenolone compounds of the type recited in claim 17 in which R is 2-butenyl and 2,4-pentadienyl, respectively. Appellants strongly contend, however, that a claim such as claim 17 is permissible in the circumstances of this case because there are critically novel and inventive patentable differences between the prior art and appellants' claimed cyclopentenolones.

A large number of points are presented by appellants to support this contention. Those points will subsequently be discussed in considering appealed claim 48.

Even if there is a critically novel and inventive patentable difference between the prior art and their invention here claimed, as appellants contend, we think this contention is not actually in point insofar as the rejection of claim 17 as indefinite is concerned.

Under R. S. 4888, it was required that the inventor "shall *particularly point out and distinctly claim* the part, improvement, or combination which he claims as his invention or discovery." This provision has been carried forward into § 112, Title 35, U. S. C. (1952, with slight modification of language.[1]

[1] In the light of the prior art of record, the italicized portion of claim 17 is an attempt by appellants to claim their invention by excluding what they did not invent rather than by particularly and distinctly pointing out what they did invent. Further, it is clear that claim 17 is a broad generic claim in which appellants are seeking to establish a monopoly to *all* such cyclopentenolones, whether known or unknown, excepting the two prior art compounds which are recited in the italicized exclusionary clause of claim 17.

In view of this, we think the Examiner properly regarded the italicized portion of claim 17 as a negative limitation. We are also of the opinion that this renders the claim indefinite and unpatentable. *In re Rose*, supra. See also *In re Langdon*, supra. As this court pointed out in the *Rose* case, the basic objection to use of expressions of this kind is that there is a failure to comply with the statutory requirement that the applicant shall in his claims particularly point out and distinctly claim his invention when all he does is claim everything, whether known or unknown, except that which is shown in the prior art.

To support their above-noted contention that they have disclosed subject matter which is patentably inventive over the prior art, appellants have argued that there is a high degree of unpredictability in the insecticide art. Appellants have stated in the record herein that there are many instances when isomers and analogs of excellent known insecticides have proven ineffective as insecticides. This being the case, it seems particularly clear that appellants have not complied with the statute by claiming all but what was previously known.

The Examiner rejected claim 47 as indefinite similarly to claim 17. This claim excludes those cyclopentenolones wherein the alkenyl radical has four or five carbon atoms while including all others. The 2-butenyl radical and the 2,4-pentadienyl radical disclosed in La Forge et al. are alkenyl radicals having four and five carbon atoms, respectively. Thus, in claim 47, as in claim 17, appellants seek to claim all such compounds, whether known or unknown, excepting those which are shown in the prior art.

[2] Although the italicized portion of claim 47 is affirmative in form, it is clearly a negative limitation in substance. In determining whether part of a claim is a negative limitation of the type which renders a claim fatally indefinite, we must look to

[1] "The specification shall conclude with one or more claims *particularly pointing out and distinctly claiming* the subject matter which the applicant regards as his invention."

the substance and not the mere form of the language in which the claim is cast. A limitation though affirmative in form may be negative in substance, and vice versa. The essential question is whether the claim meets the requirements of the pertinent provisions of R. S. 4888 and 35 U. S. C. § 112 (1952), supra. We therefore think that the principles applied to claim 17 are applicable to claim 47 and we are of the opinion that claim 47 is indefinite and unpatentable.

Claim 46 calls for a racemic mixture of the compounds defined in claim 17. The Examiner held claim 46 indefinite for the same reasons as claim 17, stating that "the natural compounds referred to in La Forge et al. article exist as a racemic mixture." The Examiner also stated:

> • • • It should be noted that the compounds of claim 17 and of La Forge et al. are by mere inspection of their structural formulas capable of rotating light since they contain an asymmetric carbon atom (see Gilman, "Organic Chemistry" (1938), vol. 1, pages 155–176; or Fieser and Fieser, "Organic Chemistry" (1944), pages 244–279). The skilled chemist would know, therefore, that the compounds involved here are capable of existing in dextro and levo forms and as racemic mixtures thereof.

These statements made by the Examiner indicated he was of the opinion that the term racemic does not define anything inventively and patentably novel over the teaching of the La Forge et al. reference. The Board in its decision has implicitly concurred in this holding. [3] Concurrent findings of lack of inventive novelty by the Patent Office tribunals are not conclusive upon this court, but they are persuasive since those tribunals presumably are familiar with the art. *In re Kaufmann*, 39 CCPA (Patents) 769, 193 F.2d 331, 92 USPQ 141. Appellants have presented little to convince us that this holding by the Examiner and the Board is erroneous. Thus, it seems to us that claim 46 must stand or fall with parent claim 17, and we therefore consider claim 46 indefinite and unpatentable for the reasons applied to claim 17.

In view of the foregoing, the rejection of claims 17, 46 and 47 as indefinite will be sustained. Having reached this conclusion, it is unnecessary to discuss the rejection of these claims as unpatentable over the La Forge et al. reference.

Claim 48 was rejected as an improper Markush claim, the Examiner stating that:

> • • • This claim sets up a Markush group which illogically excludes the natural member of this group[2] which is disclosed by La Forge et al. That this is an improper Markush group, and therefore indefinite and alternative is indicated by *In re Hass et al.*, 563 O. G. 576, 60 USPQ 544, 1944 C. D. 234, [31 CCPA (Patents) 895].

Claim 48 was also rejected on prior art. That rejection will be discussed in detail later in this opinion.

Appellants agree that claim 48 excludes the moieties derived from the natural pyrethrin esters. As they point out in their brief, the moiety with a 2-(4-pentadienyl) radical at R is excluded, since it is not recited in the Markush group. That with 2-butenyl at R, which corresponds to the natural cinerolone, is also excluded. This is so because of the expression "the semicarbazone of which has a melting point with decomposition at about 222–223° C." This melting point limitation excludes not only the optically active form but also the racemic form of natural cinerolone. This melting point limitation also limits the Markush species of the claim to the geometric isomer of the naturally derived moiety, since the semicarbazone of the racemic form of the natural moiety has a different melting point.

[4] If on examination of a generic Markush type claim, it be found that the applicant has included one or more members known to be old in the art for the same purpose as in the applicant's invention, the group in its entirety must fail of recognition in exactly the same manner as would have been the case had the group of elements of the claim been identified by a single term. [5] In such contingency, a formula of lesser scope may be invoked, provided that the remaining members of the group have a common quality which is distinctive from the characteristics of the major group, and which itself imparts patentable merit to the subgroup over the generic group. *In re Haas et al.*, supra.[3]

[6] A Markush grouping is proper where the substances grouped have a community of chemical and physical characteristics which justify their inclusion in a common group, and such inclusion is not repugnant to the principles of scientific classification. *In re Jones*, 34 CCPA (Patents) 1150, 162 F.2d 479, 74 USPQ 149.

Claim 48 lists a series of new synthetic substituted cyclopentenolones disclosed in appellants' application which are produced by cyclyzing the hydroxydiketones covered in allowed claims of U. S. Patent No. 2,574,500, supra. All of these listed cyclopentenolones may be esterified by chrysanthemum monocarboxylic acid to yield active synthetic pyrethrinlike insecticides of the type covered in allowed claims of U. S. Patent No. 2,606,652, supra. On the other hand, however, the two prior art cyclopentenolones disclosed by La Forge et al. are scission products of the natural pyrethrin esters. Hence, although these scission products may be esterified with chrysanthemum monocarboxylic acid, such esterification merely results in the original starting ester from which they were made. Manifestly, from a practical viewpoint, if one is seeking a method of synthesizing pyrethrinlike products, to follow such a course is to wend a useless circle. Thus, the prior art scission product cyclopentenolones can in no way serve as a tool in the preparation of synthetic pyrethrinlike insecticides.

In the light of these factors, and in view of other factors discussed below in considering patentability of the compounds recited therein, we think the Markush grouping of claim 48 complies with the requirements of *In re Jones*, supra.

Further, appellants' new synthesized cyclopentenolone intermediates are affirmatively recited

[2] The compound apparently referred to here is the "natural" scission product cinerolone, 2-(2-butenyl)-4-hydroxy-3-methyl-2-cyclopenten-1-one, which is disclosed in that reference.

[3] Quoting with approval from *Ex parte Burke*, 1934 C. D. 5.

in the claim and the exclusion of the known prior compounds results merely from claiming a subgroup of lesser scope having a common quality which is distinctive from the characteristics of the major group. This common distinctive quality is that the compounds recited are novel synthesized intermediates produced by a novel process from a novel synthesized starting material for use in a novel method of providing by synthesis the novel desired pyrethrinlike insecticides. We therefore think claim 48 presents a subgroup meeting the first of the two requirements for such subgroups as set out in *In re Haas et al.*, supra. In the peculiar facts of this case, we think the recitation of the italicized compound in specific form, whereas the others are recited in broad form so as to include dextro and levo isomers and racemic mixtures, does not, ipso facto, make the claim an improper Markush claim. Whether a Markush grouping is proper must be decided in view of the facts in each case. *In re Jones*, supra.

Accordingly, the rejection of claim 48 as an improper Markush claim will not be sustained.

The subgroup, however, must have patentable merit over the major group. If any one or more of the compounds included in Markush claim 48 is not inventive and patentable over the La Forge et al. disclosure, that claim is unpatentable. *In re Hass et al.* and *Ex parte Burke*, supra.

Claim 48 (and claim 20) was further rejected by the Patent Office tribunals as unpatentable over La Forge et al. The rejection is based primarily on the ground that the italicized portion of claim 48 (which is the same as claim 20) is drawn to an isomer of the known cinerolone scission product, 2-(2-butenyl)-4-hydroxy-3-methyl-2-cyclopenten-1-one, and that such isomer is not inventive and patentable over the compound of the reference.

It appears from the record, that synthetic 2-(2-butenyl)-4-hydroxy-3-methyl-2-cyclopenten-1-one recited in claims 20 and 48 is not the same compound as the natural product or any racemized form derivable from natural cinerolone. The natural cinerolone scission product is now known to have a *cis* double bond linkage, whereas the new synthesized product defined in these claims has a *trans* double bond. Thus, the latter is a geometrical isomer of the former.

[7] This court has previously held that a novel useful chemical compound which is homologous[4] or isomeric[5] with compounds of the prior art is unpatentable unless it possesses some unobvious or unexpected beneficial property not possessed by the prior art compounds. We also implicitly indicated in the decisions here cited that homologs and isomers may be patentable if they are inventive over known prior art compounds. See also *Parker v. Marzall*, 86 USPQ 446, a decision of the District Court for the District of Columbia.

[4] *In re Hass et al.*, supra.
[5] *In re Norris*, 37 CCPA (Patents) 876, 179 F.2d 970, 84 USPQ 458.

The Examiner and the Board nowhere asserted that the compounds affirmatively claimed were available before appellants devised the synthesis they have disclosed in their application. Nor have those tribunals challenged appellants' claim that the compounds synthesized by them have made it possible to synthesize for the first time highly successful pyrethrinlike insecticides.

The sole reference La Forge et al. does not disclose or even suggest any process for synthesizing even the cyclopentenolone scission products disclosed therein, let alone the new cyclopentenolones disclosed herein. The preparation of the cyclopentenolones here claimed required the discovery and development of a complex process of synthesis, and a new class of patentable hydroxydiketones for starting materials.

Moreover, it appears from the record that the cyclopentenolones of claim 48 when esterified yield improved synthetic pyrethrin analogs having commercial advantages over the natural pyrethrin insecticides; and that the synthetic pyrethrin esters developed by appellants have already formed the basis for extensive commercial production and use.

There is also in the record a publication from the Journal of the Chemical Society of London indicating that a research team of competent chemists sought to synthesize cyclopentenolones of the type claimed and failed to do so.

[8] We are convinced after a review of the record herein that, as appellants contend, there is a considerable degree of unpredictability in the insecticide field with homologs, isomers and anologs of known effective insecticides having proven ineffective as insecticides. In view of this, and the other factors previously discussed, we conclude that all the compounds of the subgroup in Markush claim 48 are inventive and patentable over the prior art of record, albeit they include isomers and homologs of the compounds shown in La Forge et al. Considering the history of the art at the time of the invention, the occasion for the invention, and its success, we think such a conclusion unavoidable. See *In re McKenna et al.*, 40 CCPA (Patents)—, — F.2d —, — USPQ —. *In re Bowden et al.*, 37 CCPA (Patents) 1201, 183 F.2d 115, 86 USPQ 419.

We note that the Examiner allowed in claim 18 the allyl species of cyclopentenolone, which is 2-allyl-4-hydroxy-3-methyl-2-cyclopenten-1-one, the first compound recited in claim 48. It appears to us that this species is a homolog of the cinerolone moiety shown in La Forge et al. In the former, R in the 2 position is the radical C_3H_5 having a double bond; in the latter, it is the 2-butenyl radical C_4H_7 having a double bond.

[9] Allowability of an appealed claim is not controlled by the fact that similar claims have been allowed in the Patent Office, since an appealed claim must be patentable in its own right in the opinion of this court. However, similar claims allowed by

the Patent Office tribunals furnish evidence of what features those tribunals regard as patentable, and we think it proper, and sometimes necessary, to consider allowed claims in order to fully determine the views of the Board and the Examiner. *In re Bisley*, 39 CCPA (Patents) 982, 197 F.2d 355, 94 USPQ 80, and cases cited therein.

We think the Examiner's allowance of the specific compound of claim 18 indicates recognition of the presence of invention therein, notwithstanding the disclosure of a homolog in the prior art. We think the Patent Office tribunals erred in not extending similar recognition of invention in the other compounds of claim 48, which are analogous to the allyl species allowed in claim 18.

In view of the foregoing, the rejection of claim 48 will not be sustained.

[10] Accordingly, the rejection of claim 48 is hereby reversed and the rejection of claims 17, 46 and 47 is affirmed.

MODIFIED.

U. S. Court of Customs and Patent Appeals

IN RE PRUTTON

No. 5975. Decided June 24, 1953

[— F.2d —; 97 USPQ 447]

1. RES JUDICATA—MAY BE AVOIDED ONLY IF CLAIMS ARE PATENTABLY DISTINCT.

Where the Court of Appeals for the District of Columbia Circuit has held claims in applicant's earlier application unpatentable over a certain patent, *Held* that the applicant is bound by that decision, and only if the claims on appeal are patentably different from the subject matter of those claims is appellant entitled to have them considered on their merits.

2. SAME—APPLICATION OF DOCTRINE NOT CONDITIONED ON CORRECTNESS OF EARLIER DECISION.

Although the Board of Appeals held the claims on appeal to be patentable over the reference used in rejecting the claims in the prior decision, *Held* that it does not follow that the claims on appeal are distinct from those rejected in the prior case since res judicata applies whether the final decision in the earlier application was right or wrong, or was induced by want of the particular evidence offered to the Board in this case.

3. APPEAL TO U. S. COURT OF CUSTOMS AND PATENT APPEALS—NO REVIEW OF PRIOR DECISION OF COURT OF APPEALS.

"Appellant having elected in the earlier case to proceed by civil suit under R. S. 4915, the final decision rendered in that proceeding is conclusive of the issues determined therein, and appellant cannot obtain a further review of such issues in a later filed application brought before this court."

4. PATENTABILITY—PARTICULAR SUBJECT MATTER—LUBRICATING COMPOSITION.

Certain claims to a lubricating composition *Held* properly rejected on the ground of res judicata.

APPEAL from Patent Office. Serial No. 738,497.

AFFIRMED.

Oscar C. Limbach and *Oberlin & Limbach* (*Almon S. Nelson* of counsel) for appellant.

E. L. Reynolds (*J. Schimmel* of counsel) for the Commissioner of Patents.

JOHNSON, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the action of the Primary Examiner rejecting claims 1 to 3, 5 to 14 and 21 to 24 of appellant's application, Serial No. 2,321, for a patent on a "Lubricating Composition." No claims were allowed.

In his brief appellant withdrew the appeal as to claims 3, 6, 7, 9, 13 and 24, which are directed to a non-elected species. Such withdrawal is treated as a motion to dismiss these claims and the motion is allowed. *In re Horneman et al.*, 39 CCPA (Patents) 809, 194 F.2d 108, 92 USPQ 316. This leaves for our consideration claims 1, 2, 5, 8, 10 to 12, 14 and 21 to 23.

The application at bar is said to be a continuation-in-part of a copending application Serial No. 197,732, filed March 23, 1938, which in turn is said to be a continuation-in-part of appellant's then copending application Serial No. 760,038, filed December 31, 1934.

The appealed claims relate to a lubricating composition comprising the usual or ordinary mineral oil and containing an addition agent effective under conditions of extreme pressure and effective to inhibit corrosion of metallic surfaces and oxidation and sludging in the oil. These addition agents are alkylated aromatic esters of an acid of phosphorus, the preferred ones being those which contain at least one alkyl group having at least two, and still more desirably at least four, carbon atoms in the chain. The following is a list of examples disclosed in the application illustrating but not limiting the type of addition agent contemplated:

I. The alkylated Aryl Phosphates, e. g.,
tri-(tertiary amyl phenyl) phosphate
tri-(butyl phenyl) phosphate
tri-(iso-butyl phenyl) phosphate
tri-(iso-propyl phenyl) phosphate

II. The alkylated Aryl Phosphites, e. g.,
tri-(butyl phenyl) phosphite
tri-(iso-butyl phenyl) phosphite
tri-(iso-propyl phenyl) phosphite

III. The alkylated Aryl Thiophosphates, e. g.,
tri-(butyl phenyl) thiophosphate
tri-(iso-butyl phenyl) thiophosphate
tri-(iso-propyl phenyl) thiophosphate

The application states that the compounds with the longer alkyl groups are more soluble in the mineral oil and also appear to exhibit better antioxidant properties and cause greater reduction in sludge formation. These addition agents are used in small amounts, the usual range being from about 0.1% to 0.5% for oxidation or corrosion resistance purposes. About .5% to 5% is used to achieve increased film strength of the lubricant.

According to the application, compounds of the type illustrated above may be obtained by condensing unsaturated chain compounds, and more specifically aliphatic hydrocarbons, with aromatic esters of acids of phosphorus, such as triphenyl phosphate or tricresyl phosphate.

Claim 23 is regarded as representative of species claims 14 and 23, which are specifically directed to a phosphate ester. Claim 1 is generic to phosphate, phosphite, and thiophosphate esters and is regarded as representative of all the other appealed claims. Those claims read as follows:

1. A lubricating composition comprising a mineral lubricating oil and a minor amount of alkylated aromatic triester of an acid of phosphorus wherein the alkyl group contains at least two carbon atoms and is directly attached to a ring carbon atom.

23. A lubricating composition comprising a mineral oil solution of an aliphatic substituted aromatic triester of phosphoric acid, wherein the aliphatic substituents contain at least 2 carbon atoms and are directly attached to a ring carbon atom.

The references relied on in rejections affirmed by the Board are: Downing et al., 2,215,956, Sept. 24, 1940, (filed Oct. 21, 1937); Downing et al., 2,285,853, June 9, 1942, (filed Feb. 23, 1934); Powers, 2,208,102, June 4, 1940, (filed Jan. 18, 1938).

The Board affirmed the Examiner's rejection of the lubricant of the appealed claims as unpatentable over Downing et al., No. 2,215,956. Specifically, the Board pointed out that it did not consider "tri-(tertiaryamyl phenyl)phosphate," which applicant discloses as illustrative of his additives, to be patentably distinct from the "mixed tri-tertiaryamylphenyl phosphate" lubricant additive disclosed in that reference.

The Board also affirmed the Examiner's rejection of the appealed claims as unpatentable over the Powers patent which discloses the use of minor amounts of tri-para-tertiary-amyl-phenyl phosphite as an additive for lubricants.

Appellant does not appear to contest the pertinency of the patents to Powers and Downing et al., No. 2,215,956, but contends that the instant application is a continuation-in-part of his prior application Serial No. 760,038, filed December 31, 1934; and that this prior application discloses the invention of the appealed claims and hence constitutes a constructive reduction to practice antedating and obviating those references. The Examiner and the Board ruled that appellant was not entitled to the earlier filing date because the prior application he relies on does not sufficiently disclose the invention herein claimed so as to constitute a constructive reduction to practice of it.

Downing et al., No. 2,285,853, discloses the use of minor amounts of organic esters of the phosphorous acids as additives in lubricating oil and indicates, inter alia, the use of tri-cresyl phosphate, mixed tertiaryamylphenyl phosphates, and dilorol cresyl phosphate.

The Examiner also rejected the appealed claims as unpatentable over the use of tri-cresyl phosphate as a lubricant additive as disclosed in Downing et al., No. 2,285,853. He held that the use of higher homologs of tri-cresyl phosphate (i. e., the use of an alkyl group containing at least *two* carbon atoms, as recited in the appealed claims) would be obvious in view of the obvious improvement in oil solubility. The Board reversed this rejection holding that an affidavit submitted by appellant adequately establishes that the higher homologs have better corrosion loss characteristics than tri-cresyl phosphate, the Board apparently regarding this as an unobvious and unexpected improvement.

The Examiner further rejected the appealed claims on the ground of res judicanta in view of the adverse decision holding the claims of appellant's earlier application, Serial No. 197,732, unpatentable over Downing et al., No. 2,285,853 (the application herein allegedly being a continuation-in-part of that application). The Examiner stated that the claims on appeal in that case were clearly directed to the same subject matter as claimed herein, namely, tri-aryl esters. He pointed out that he considered the appealed claims broader than claim 12 of the earlier application, that claim being drawn to a mineral oil containing "tri-tertiary amyl phenyl phosphate."

The Board, although it reversed the Examiner's prior art rejection based on Downing et al., No. 2,285,853, affirmed the rejection on the ground of res judicata stating:

• • • The decision of the Court of Appeals for the District of Columbia [*Lubri-Zol Corp. v. Kingsland, Comr. Pats.*, 83 App. D. C. 331, 169 F.2d 306, 78 USPQ 13.] in the prior application 197,732 held that the claims there involved were unpatentable to applicant in view of Downing et al. 2,285,853. We will not here enter into a discussion of the rationale of that decision. As we view the matter the issue to be decided is whether the claims before us are patentable over those involved in the decision in Serial No. 197,732. *Ex parte Ittner*, 85 USPQ 24 [Bd. of App.]. In our opinion, the present claims are not patentably different from the claims in application Serial No. 197,732 and we, accordingly, affirm the rejection of claims 1, 2, 5, 7, 8, 10, 11, 12, 14, 21, 22, and 23 on the ground of res adjudicata.

Clearly the rejection of res judicata if affirmed will be dispositive of the case regardless of whether the prior art rejections on Powers and Downing et al., No. 2,215,956, are proper or improper. We therefore will consider that rejection first.

The mere fact that appellant's earlier application, Serial No. 197,732, would have supported the appealed claims had they been presented therein does not in itself render the claims rejectable on the ground of res judicata. [1] However, the decision of the Court of Appeals on the earlier application became the final decision, so far as appellant is concerned, as to all subject matter actually contained in any of the claims involved in that proceeding, and appellant is bound by that decision holding those claims unpatentable over the Downing et al. patent, No. 2,285,853. Only if the instant claims on appeal contain subject matter *patentably different* from the subject matter of those claims is appellant entitled to have them considered on their merits. *In re Ellis*, 24 CCPA (Patents) 759, 86 F.2d 412, 31 USPQ 380. See also *Hemphill v. Coe*, 74 App. D. C. 123, 121 F.2d 897, 48 USPQ 501.[1] Thus the issue to be determined is not whether the appealed claims are patentable over Downing et al., No. 2,285,853, but whether they are patentably different from the claimed subject matter of his earlier application, Serial No. 197,732.

Appellant contends that the rejection of res judicata is improper because the appealed claims

[1] It is here noted that there are certain distinctions between the doctrine of res judicata as applied to judicial court proceedings and as applied to administrative or quasi-judicial action in the Patent Office. See *In re Barratt's Appeal*, 14 App. D. C. 235, a decision by our jurisdictional predecessor, the Court of Appeals for the District of Columbia, cited and quoted from with approval in *Overland Co. v. Packard Co.*, 274 U. S. 417.

are patentably distinct from the claims in application Serial No. 197,732. He points out that the Examiner, the Board, and the Court of Appeals held the claims in the parent application unpatentable over the tri-cresyl phosphate lubricant additive disclosed by Downing et al., No. 2,285,853, whereas in this case the Board has specifically held the appealed claims patentable over a lubricant having a tri-cresyl phosphate additive. Appellant argues that the only logical conclusion that can be drawn from this situation is that there is a patentable difference between the claims in the two cases.

[2] We do not agree with appellant's conclusion. We think this simply means that the present Board thought the claims in the earlier application were erroneously held unpatentable over Downing et al., No. 2,285,853. The Board clearly considered this to be immaterial insofar as the question of res judicata was concerned, and properly so. Res judicata applies whether the final decision in the earlier application was right or wrong, or was induced by want of the particular evidence offered to the Board in this case, *Blackford* v. *Wilder*, 28 App. D. C. 535, unless the appealed claims are patentably different from those refused in that application. *In re Ellis*, supra.

Moreover, the Board's reversal of the prior art rejection on Downing et al., No. 2,285,853, and its affirmance of the rejection of res judicata is not in fact anomalous, although seemingly so at first impression. It was necessary for the Board to have ruled on the merits of the prior art rejection based on Downing et al., No. 2,285,853, in view of the possibility that the rejection on res judicata might be reversed on appeal. Otherwise, the former rejection, not having been expressly overruled by the Board, would be regarded by this court as having been affirmed. See *In re Boyce*, 32 CCPA (Patents) 718, 144 F.2d 896, 63 USPQ 80.

We turn therefore to a determination of whether the appealed claims are patentably different from those refused in application Serial No. 197,732.

Claim 12 of the latter application reads as follows:

> 12. A lubricating composition comprising a mineral lubricating oil and a minor amount of tri-tertiary amyl phenyl phosphate.

In neither the record nor in his brief has appellant contradicted or challenged the Examiner's statement that the appealed claims are broader than claim 12 of the earlier case. After a study of the record we do not see how he could do so.

In his request for reconsideration before the Board of Appeals in the earlier case, appellant stated as follows:

> The first specific example given in the specification, namely, tri-tertiary amyl phenyl phosphate, is representative of all of the examples and all of the compounds covered by the claims and has the structure of Formula I on the attached sheet.
>
> A somewhat more simplified representation of this specific example is found in Formula II on the attached sheet.
>
> It will be observed that Formula II is generic to all of the alkylated aromatic phosphates disclosed in the application. * * *

"Formula I" discloses a tri-ester of phosphoric acid having three phenyl groups, one substituted for each of the three hydrogen atoms of the acid; a tertiary amyl group (i. e., an alkyl group with 5 carbon atoms) is directly attached to a ring carbon atom in each of the phenyl groups. "Formula II" discloses a similar tri-ester with "an alkyl group having at least 2 and preferably 4 carbon atoms" attached to each of the phenyl groups.

According to appellant's brief, the appealed claims are directed to tri-esters of phosphorous acids having a phenyl group substituted for each of the three hydrogen atoms of the acid, and an alkyl group attached to a ring carbon atom in at least one of the phenyl groups. Moreover, the present application lists "tri (tertiary amyl phenyl) phosphate" as one of the 10 specific illustrative additive agents contemplated by the disclosed invention, and it appears that this term must be directed to a compound having the structure of "Formula I," supra.

It is true that the claims before us define the additives somewhat differently than in the earlier case; e. g., the present claims call for an "aromatic tri-ester" and recite that the "alkyl group is attached to a ring carbon atom." However, in view of the foregoing, it seems clear to us that the appealed claims are broader than, and read directly on, the compound recited in claim 12 of the earlier application. This being the case, we concur with the Board and the Examiner that the appealed claims are not patentably different from the claims of application Serial No. 197,732, but are directed to essentially the same subject matter. Hence, the differences in phraseology do not effect the conclusiveness of the former adjudication by the Court of Appeals. *In re Edison*, 30 App. D. C. 321.

Having reached the foregoing conclusion, we think the Board's rejection of the claims on the ground of res judicata must be affirmed. *In re Ellis*, supra. Were we to hold otherwise, we would nullify the decision of the Court of Appeals in the earlier case. Under R. S. 4911 and R. S. 4915 (see now 35 U. S. C. §§ 141 and 145 (1952)) appeal to this court and remedy by civil action in the District Court are alternative and mutually exclusive remedies. [3] Appellant having elected in the earlier case to proceed by civil suit under R. S. 4915, the final decision rendered in that proceeding is conclusive of the issues determined therein, and appellant cannot obtain a further review of such issues in a later-filed application brought before this court. See *Hemphill* v. *Coe*, supra.

In view of our affirmance of the res judicata rejection, it is unnecessary to consider the rejections based on the patents to Powers and Downing et al., No. 2,215,956.

[4] For the reasons hereinbefore set out, the appeal is dismissed as to claims 3, 6, 7, 9, 13, and 24, and the decision of the Board of Appeals as to claims 1, 2, 5, 8, 10 to 12, 14 and 21 to 23 is affirmed.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

1,960,309, Herron & Lertzman, Spark plug; 1,960,316, H. Rabezzana, Spark plug electrode with resistance in center wire; 2,272,338, Fessler & Schwartzwalder, Ceramic body, especially adapted for use as a spark plug insulator; 2,272,618, same, Ceramic body; 2,308,115, same, Ceramic body and method of making same, filed June 19, 1953, D. C., N. D. Ohio (Cleveland), Doc. 7036, *General Motors Corp.* v. *The Electric Auto-Lite Co.*

1,960,316. (See 1,960,309.)

2,045,328, H. A. Levey, Producing continuous film from plastic, filed June 22, 1953, D. C. N. J. (Newark), Doc. 530/53, *Herold A. Levey* v. *Celanese Corp. of America, Inc.* Same, D. C., S. D. N. Y., Doc. 86/43, *H. A. Levey* v. *Eastman Kodak Co., Inc., et al.*

2,120,667, B. Gruskin, Therapeutic agent for use in the treatment of infection, filed June 19, 1953, D. C., S. D. N. Y., Doc. 86/39, *Colgate-Palmolive-Peet Co.* v. *Ryston Co.*

2,128,239, E. T. Ferngren, Process of molding plastic materials; 2,175,053, same, Process and apparatus for working organic plastic material and producing container therefrom; 2,230,188, same, Process of and apparatus for forming articles from plastic material; 2,349,177, W. H. Kopitke, Method of and apparatus for making blown plastic articles, D. C., N. D. Ill. (Chicago), Doc. 50c234, *Plax Corp.* v. *E. E. Mills Corp.* Judgment of June 16, 1952 affirmed in part and reversed in part June 18, 1953.

2,175,053. (See 2,128,239.) 2,230,188. (See 2,128,239.)

2,272,338. (See 1,960,309.) 2,272,618. (See 1,960,309.)

2,308,115. (See 1,960,309.)

2,310,058, Bolten & Spitz, Garment hanger, filed June 22, 1953, D. C., E. D. N. Y., Doc. 13606, *Henry Hanger Co. of America, Inc.* v. *Stuart M. Lerner et al.*

2,328,283, Koppitz & Zeth, Disconnect switch, filed June 22, 1953, D. C., E. D. Pa. (Philadelphia), Doc. 15435, *I-T-E Circuit Breaker Co.* v. *Roller-Smith Corp.*

2,349,177. (See 2,128,239.)

2,566,287, L. H. Finneburgh, Jr., Television antenna system; 2,630,531, same, Television antenna, filed June 23, 1953, D. C., N. D. Ohio (Cleveland), Doc. 30365, *The Pinny Co.* v. *McPherson Pedal Co.*

2,628,415, T. J. Brown, Toolholder, suit for declaratory judgment filed June 19, 1953, D. C., S. D. Ind. (Indianapolis), Doc. 3483, *Kennametal, Inc.* v. *Thomas J. Brown.*

2,630,295, 2,630,296, M. B. Lucker, Automobile jack; 2,637,523, same, Lifting jack, filed June 24, 1953, D. C., N. D. Ohio (Cleveland), Doc. 30366, *Auto Specialties Mfg. Co.* v. *Superior Tool & Die Co.*

2,630,296. (See 2,630,295.) 2,630,531. (See 2,566,287.)

2,631,864, Dick & Banderburg, Take-up attachment for steering idler arms, filed June 17, 1953, D. C., S. D. Ind. (Indianapolis), Doc. 3480, *The D. & V. Mfg. Co.* v. *Accurate Products, Inc.*

2,633,368, W. Ross, Stabiliser device for vehicles, filed June 19, 1953, D. C., N. D. Ohio (Cleveland), Doc. 30353, *Gyro Skid-Control Co., Inc.* v. *The Kimball Co.*

2,637,523. (See 2,630,295.)

2,638,032, Kieffer & Strom, Telescope having prism movable for focusing; Des. 165,231, same, Telescope, filed June 18, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15631WM, *Bausch & Lomb Optical Co.* v. *Bushnell Optical Corp. of America et al.*

2,641,036, D. I. Reiter, End clamp for pocketbook handles, filed June 18, 1953, D. C., S. D. N. Y., Doc. 86/12, *D. I. Reiter* v. *De Clair Handbags, Inc.*

Des. 151,733, W. G. Bley et al., Lady's stocking, D. C., E. D. Pa. (Philadelphia), Doc. 13680, *Sanson Hosiery Mills, Inc., et al.* v. *Lexington Hosiery Co., Inc.* Consent judgment favor plaintiff and granting injunction June 18, 1953. Doc. 13701, *Sanson Hosiery Mills, Inc., et al.* v. *Guarantee Hosiery Co.* Decree as above.

Des. 165,231. (See 2,638,032.)

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946

T. M. 203,931, T. M. 333,549, T. M. 421,117, U. S. Plywood Co., Inc., Plywood; T. M. 570,623, same, Plastic surface material in sheet form for a wall covering; T. M. 390,115, same, Waterproof glue; T. M. 315,978, G. W. Flynn, Adhesives and wood and mineral mixtures, filed Mar. 17, 1953, D. C., E. D. N. Y. (Brooklyn), Doc. 13347, *U. S. Plywood Corp.* v. *Georgia-Pacific Plywood Co.*

T. M. 315,978. (See T. M. 203,931.)

T. M. 333,549. (See T. M. 203,931.)

T. M. 390,115. (See T. M. 203,931.)

T. M. 421,117. (See T. M. 203,931.)

T. M. 555,664, L. Silvers, Phonograph records for instructing in the art of dancing, D. C., S. D. Calif. (Los Angeles), Doc. 13957-T, *Stepping Tones, Inc.* v. *Russell Records.* Trade-mark held infringed, injunction granted, special master appointed (notice June 15, 1953).

T. M. 570,623. (See T. M. 203,931.)

NOTICES

Adjudicated Patents

(D. C. Mich.) Place Patent No. 2,057,587, for a gripping fastener. Claims 4, 7, and 8, *Held* invalid and not infringed. *Gagnier Fibre Products Co.* v. *Fourslides, Inc.*, 112 F. Supp. 926; 98 USPQ 9.

(D. C. Mich.) Place Patent No. 2,057,588, for a securing trim material. Claim 5, *Held* invalid and not infringed. *Id.*

(C. A. Tex.) Ball Patent No. 2,114,013, for a valve control. Claim 2, *Held* valid and infringed. *E-I-M Company, Inc.* v. *Philadelphia Gear Works, Inc.*, 205 F.2d 28; 97 USPQ 508.

Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,503,274, C. H. Jorgensen and L. C. Dermond. Engine pressure regulator, decided June 17, 1953, claims 1, 2, 3, 8, 9, 16, 17, and 20.

Pat. 2,559,790, C. F. Peters. Cyclopentadiene-vinyl acetate polymers, decided Aug. 6, 1953, claims 1, 2, 4, 5, and 7.

Pat. 2,568,325, H. Diamond. Ultra high frequency generator, decided May 29, 1953, claims 8 and 9.

Cancellation Notice

[No. 6084]

Philip R. Meyers, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Wm. Sanderson & Son Ltd., 11 Quality Street, Leith, Edinburgh, Scotland, to effect the cancellation of trade-mark registration of Philip R. Meyers of 271 Madison Avenue, New York, N. Y., No. 377,839 dated May 14, 1940, and the notice of such proceeding sent by registered mail to the said Philip R. Meyers at the said address having been returned by the post office as being undeliverable, notice is hereby given that unless Philip R. Meyers, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published for three consecutive weeks. (Date of first publication—Sept. 1, 1953.)

ARTHUR W. CROCKER,
Assistant Commissioner of Patents.

Aug. 4, 1953.

Disclaimers

2,540,412.—*Robert Adler*, Northfield, Ill. PIEZOELECTRIC TRANSDUCER AND METHOD FOR PRODUCING SAME. Patent dated Feb. 6, 1951. Disclaimer filed Aug. 17, 1953, by the inventor and the assignee, *Zenith Radio Corporation*.

Hereby enter this disclaimer to claims 1, 2, 3, 6, 7, and 8 of said patent.

2,548,452.—*Clarence M. Turner*, Stony Brook, N. Y. CORONA TRIODE VOLTAGE REGULATOR. Patent dated Apr. 10, 1951. Disclaimer filed Aug. 27, 1953, by the assignee, *United States of America, as represented by the United States Atomic Energy Commission*.

Hereby enters this disclaimer to claim 3 of said patent.

2,613,350.—*Spencer Kellogg, 2nd*, Glen Head, N. Y. FLIGHT INDICATING SYSTEM FOR DIRIGIBLE CRAFT. Patent dated Oct. 7, 1952. Disclaimer filed July 28, 1953, by the assignee, *The Sperry Corporation*.

Hereby enters this disclaimer to claims 31, 32, and 33 of said patent.

2,613,352.—*Spencer Kellogg, 2nd*, Glen Head, N. Y. RADIO NAVIGATION SYSTEM. Patent dated Oct. 7, 1952. Disclaimer filed July 28, 1953, by the assignee, *The Sperry Corporation*.

Hereby enters this disclaimer to claim 23 of said patent.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,630,538. Electric Lamp Stand. Patented Mar. 3, 1953. Portable electric lamp stand is provided with a system of dual control of the lamp at two points separated by the length of the lamp cord to effect more extensive visibility, and thus prevent fumbling and stumbling through the dark to control the lamp. The lamp, with the dual control integral with the unit construction of the lamp, may be carried about and plugged into any convenient outlet. A rotary single pole double throw snap switch is mounted in the base of the lamp stand. A three conductor lamp cord extends outwardly through the base and is connected to a plug switch. The plug switch embodies a rotary single pole double throw snap switch combined with terminal prongs for plugging into a socket. Either switch may be used to open or close the lamp circuit. The invention may be applied to any ordinary lamp stand. (Owner) Erwin F. Brede, 18900 Warrington Drive, Detroit 21, Mich. Group 36—51. Reg. No. 51,552.

Pat. 2,633,763. Angle Drilling and Tapping Device. Patented Apr. 7, 1953. Jig and fixture for holding round workpieces such as gears, pulleys, etc., at various angles to facilitate drilling and tapping openings therein at different angles. The jig and fixture have a base to be bolted to the bed of a drill press. A plate is rockably mounted at one end of the base. A protractor scale on the base and pointer on the plate cooperate to indicate various angular positions of the plate. A shaft is adjustably secured to the plate to receive the central opening of a round workpiece. A disc on the outer end of the shaft clamps the workpiece in position. One end of an actuator shaft is pivoted to the upper end of the plate, and its other end is threaded to be received in a threaded bore in a manually operable control sleeve provided with a hand wheel. The sleeve is rotatably mounted within a journal column between brackets secured to the base. (Owner) Charles Sperling, 2351 South 8th St., Camden 4, N. J. Group 35—41—43. Reg. No. 51,553.

Pat. 2,590,431. Water Aerator and Filter. Patented Mar. 25, 1952. Water purification and supply system for household use includes an aerator tank, a filter tank, and a pressure tank. A pump for pumping water from a well into the aerator tank is connected to a motor which is controlled by a float-actuated switch associated with the upper end of the aerator tank. A second pump for pumping water through a conduit system from the upper end of the aerator tank into the upper end of the filter tank, and an agitator in the aerator tank, are both driven by a second motor. Operation of the second motor is controlled by a second float-actuated switch associated with the upper end of the pressure tank. The pressure tank, which receives filtered water from the lower end of the filter tank, is connected by a service pipe to a faucet. (Owner) Le Roy Rose, 2806 9th St. West, Bradenton, Fla. Group 35—61. Reg. No. 51,554.

Pat. 2,594,206. Oil-Burning and Control Apparatus. Patented Apr. 22, 1952. Oil burning and heating apparatus includes a burner having an outer air flow tube and an inner oil flow tube. The outer end of the inner tube together with a spreader valve forms a nozzle from which oil is sprayed into the incoming air. Displacement pumps for delivering air and oil to the tubes are preferably driven at the same speed, but with their speed jointly varied, to always feed air and oil at a given volume ratio. During operation of the burner, the spreader valve is magnetically biased toward closed position to maintain the discharge pressure of the oil substantially constant in spite of variations in the rate of delivery. The biasing force is discontinued when the burner is shut down to permit oil to escape from the burner. Air pressure stored in a special chamber during operation of the burner is automatically released as the burner is shut down to blow the oil out of the burner. (Owner) William Harvey Payne, Laurelwood, Pine Hall, N. C. Group 33—63—65. Reg. No. 51,555.

Pat. 2,604,230. Liquid Supply Tank. Patented July 22, 1952. Supply tank for storing liquid oxygen and the like under pressure and delivering it under pressure at the points of use. A cylindrical tank having a liquid discharge outlet at one end contains a slidable piston which is pressed against the liquid by gas under pressure to maintain the liquid under pressure. As the liquid is drawn off, the expanding gas moves the piston to maintain pressure on the liquid. The piston has a seal at each end and is of slightly reduced diameter between the seals to provide a relief chamber so that any leakage past either of the seals may be automatically drawn off by relief valves mounted along the sides of the tank. The valves are spaced apart so that at least one of the valves will always be positioned between the seals as the piston moves within the tank. Springs incapable of opening the valves against the pressures within the storage spaces of the tank automatically open the valves as they successively communicate with the relief chamber. As the rear end of the piston passes a valve, it cams the valve to closed position. (Owner) William Harvey Payne, Laurelwood, Pine Hall, N. C. Groups 34—95; 37—22. Reg. No. 51,556.

Pat. 2,619,320. Tire Lifter With Fulcrum Element. Patented Nov. 25, 1952. This is a tire tool which combines in one tool a wrench, a cap remover, and a tire-lifting device. A triangular fulcrum is included for use in lifting and supporting the tire while changing tires. (Owner) August A. Miller, 1616 North Main St., Dayton 5, Ohio. Groups 33—52; 38—31. Reg. No. 51,557.

Pat. 2,641,292. Container. Patented June 9, 1953. Re-usable collapsible container of rubber-like material for petroleum products and chemicals is provided with unique shock-absorbing means so that it may be dropped from relatively high altitudes from an airplane without causing a leakage to occur in the container or bung therefor. The container comprises a hemispherical diaphragm having an internal reversible hemispherical bubble integral with the center of the flat circular face of the diaphragm. A bung is integral with the bubble. Spring means on the circular face are adapted to urge the two halves of the circular face to folded position and cause the container to assume an egg-like shape with the bubble concealed within the container. When the container, dropped from high altitudes, strikes the ground, the percussive force of the contents unfolds the circular face against the force of the spring means and causes the bubble to pop outwardly to reverse position. The popped-out bubble prevents the spring means from refolding the circular face. (Owner) Michael J. Quillinan, 87—10 37th Ave., Jackson Heights, New York, N. Y. Groups 26—64; 30—32. Reg. No. 51,558.

Pat. 2,620,859. Folding Chair. Patented Dec. 9, 1952. Folding rocking chair, with flexible back and seat, is constructed to avoid toppling backward when rocking. A tubular metal frame at each side of the chair is curved to form a rocker web and a curved stop at the rear, terminating at the back in a back standard and at the front in a leg and an arm rest which is fastened to the back. Tubular crossbars slidable along the inner sides of the frames are attached to the upper ends of pairs of criss-cross tubular braces which are hingedly connected at their lower ends to the rocker webs. A flexible back secured to the standards and a flexible seat secured to the crossbars are provided with removable decorative covers. Horizontal support members for the crossbars are secured to the inner sides of the standards and legs, and are provided with rubber bumpers on top to resiliently support the seat when the chair is occupied. The cross braces are pivotally connected where they cross for folding. The chair is folded by moving the side frames toward each other. (Owners) Louvenia L. Kundtz and Theodore S. Kundtz. Correspondence to L. L. Kundtz, 528 S. W. 28th Road, Miami 45, Fla. Group 25—14—19. Reg. No. 51,559.

Pat. 2,525,844. Parachute for Aerodynamic Braking of Airplanes. Patented Oct. 17, 1950. Reg. No. 51,560.

Pat. 2,533,702. Pilot Operated Control System for Aircraft. Patented Dec. 12, 1950. Reg. No. 51,561.

These two patents show an airplane having a fuselage with a box-like tail with main wings pivoted to the fuselage adjacent the nose and a braking parachute releasably stored in the tail. Combined steering and braking flaps of stiff panel-like form are pivoted to the sides, top, and bottom of the tail at a point well inwardly from the terminal end of the tail. A cable wound on a reel inside the fuselage is connected to the parachute. To effect ejection of the parachute, the pilot releases the reel and opens a valve to admit air into the tail to force the parachute out of the tail to braking position. The wings may be bodily adjusted about their horizontal pivots to serve as brakes, and also to counteract the tendency of the braking parachute to nose the plane downwardly. The combined steering and braking flaps may be independently adjusted for steering purposes, or they may all be simultaneously swung outwardly for braking purposes. A valve in the top of the parachute is opened as the parachute is drawn into the tail, to permit air to escape. (Owner) Chalmers L. Weaver, 4533 St. Ferdinand St., St. Louis, Mo. Group 37—21—22.

Pat. 2,093,568. Method of and Apparatus for Mining and Recovering Minerals. Patented Sept. 21, 1937. Method and machine for mining and recovering minerals where the vein is undercut. The operation is carried out by: Undercutting a kerf in the mineral vein; laying plates on the bottom strata below the mineral vein successively and in edge-to-edge relation with one end of the plates extending into the kerf; feeding a conveyor belt over the successively laid plates directly behind the undercutting machine; next, shooting or snubbing down the mineral onto the conveyor; and finally withdrawing the conveyor with the piled mineral thereon for deposit onto a second conveyor extending at right angles to the first conveyor. (Owner) Ida Marian McFarland, % Earl Kilburn, North Clarendon, Vt. Group 35—33. Reg. No. 51,562.

General Electric Company offers the 36 patents listed below for non-exclusive licensing upon reasonable terms to domestic manufacturers.

Applications for license may be addressed to: Manager, Patent Services Department, General Electric Company, 1 River Road, Schenectady, N. Y.

The following 8 patents relate to: Voltage regulators; protective arrangement for electric circuits; a polyphase transformer; switching mechanism for rectifiers; method of bonding nickel structures of large electron discharge devices; and an electronic capacitor employing an electron cloud as the dielectric medium.

Pat. 2,075,709. Selective Protective Device for Electric Lines. Mar. 30, 1937. Group 36—19. Reg. No. 51,563.

Pat. 2,230,945. Alternating Current Voltage Regulator. Feb. 4, 1941. Group 36—19. Reg. No. 51,564.

Pat. 2,230,946. Alternating Current Voltage Regulator. Feb. 4, 1941. Group 36—19. Reg. No. 51,565.

Pat. 2,243,584. Voltage Regulation. May 27, 1941. Group 36—19. Reg. No. 51,566.

Pat. 2,247,079. Variable Ratio Transformer. June 24, 1941. Group 36—19. Reg. No. 51,567.

Pat. 2,616,997. Cyclic Fluid Pressure Overlapped Multicontact Switching Mechanism for Rectifiers. Nov. 4, 1952. Group 36—19. Reg. No. 51,568.

Pat. 2,627,110. Method of Bonding Nickel Structures. Feb. 3, 1953. Group 36—19. Reg. No. 51,569.

Pat. 2,629,050. Variable Electronic Capacitance Device. Feb. 17, 1953. Group 36—61—62. Reg. No. 51,570.

The following 6 patents relate to: A pressure cooker; governor for electrically driven food mixers and the like; control device especially useful in the control of electric blankets and similar heating devices; transmission belt for a vacuum cleaner; electric fan; and a bearing assembly for a garbage disposal unit of the type mounted beneath a sink.

Pat. 2,584,759. Cover Securing Means for Pressure Cookers and the Like. Feb. 5, 1952. Group 34—41. Reg. No. 51,571.

Pat. 2,598,481. Centrifugally Operated Motor Speed Governor. May 27, 1952. Group 36—21. Reg. No. 51,572.

Pat. 2,613,630. Control Device. Oct. 14, 1952. Group 36—19—21. Reg. No. 51,573.

Pat. 2,627,185. Transmission Belt. Feb. 3, 1953. Group 30—31. Reg. No. 51,574.

Pat. 2,628,771. Electric Fan Having a Resiliently Supported Motor. Feb. 17, 1953. Group 36—21. Reg. No. 51,575.

Pat. 2,628,871. Tandem Bearing Assembly and Lubrication Thereof. Feb. 17, 1953. Group 36—21. Reg. No. 51,576.

The following 4 patents relate to: A system for scavenging oil from bearings of aircraft turbine power plants; aircraft booster jet engines; a helicopter; and a fuel metering system of the type utilized to supply a controlled amount of fuel to a reaction motor carried on the tip of a helicopter rotor blade.

Pat. 2,609,065. Means for Scavenging Engine Bearings. Sept. 2, 1952. Group 37—22. Reg. No. 51,577.

Pat. 2,619,795. Aircraft Booster Jet Power Unit. Dec. 2, 1952. Group 37—22. Reg. No. 51,578.

Pat. 2,622,826. Helicopter-Airplane. Dec. 23, 1952. Group 37—22. Reg. No. 51,579.

Pat. 2,627,718. Fuel Metering System. Feb. 10, 1953. Group 37—22. Reg. No. 51,580.

The following 2 patents relate to: A device for translating linear motion of a universally mounted control lever into rotary motion of a pair of shafts, or vice versa; and an air bearing comprising the combination of a stainless steel shaft in a graphitized carbon sleeve.

Pat. 2,610,520. Motion Translating Device. Sept. 16, 1952. Group 35—69. Reg. No. 51,581.

Pat. 2,627,443. Air Bearing. Feb. 3, 1953. Group 35—66. Reg. No. 51,582.

The following 3 patents relate to: A stabilized electrically insulating and lubricating oil; gasket material having outstanding resistance to cresylic acid at elevated temperatures; and a synthetic resinous composition.

Pat. 2,316,587. Stabilized Oil. Apr. 13, 1943. Groups 28—96; 29—11. Reg. No. 51,583.

Pat. 2,627,482. Gasket Material and Process for Making Same. Feb. 3, 1953. Group 32—93. Reg. No. 51,584.

Pat. 2,628,210. Oxygenated Polymerizable Esters as Cure Accelerators and as Copolymerizable Materials. Feb. 10, 1953. Group 28—83. Reg. No. 51,585.

The following 2 patents relate to: A thermostatic control for heating systems; and a motor control system for regulating tension of warp threads of a knitting machine.

Pat. 2,620,469. Temperature Responsive Variable Reactance. Dec. 2, 1952. Group 33—66. Reg. No. 51,586.

Pat. 2,627,592. Motor Control System for Regulating Tension. Feb. 3, 1953. Groups 36—19; 35—52. Reg. No. 51,587.

The following 2 patents relate to: An instrument for measuring the surface tension of a liquid; and apparatus for measuring the hot inner portions of the flame of rocket and jet motors.

Pat. 2,627,177. Surface Tension Measuring Device. Feb. 3, 1953. Group 35—66. Reg. No. 51,588.

Pat. 2,627,202. Apparatus for Measuring Flame Temperatures. Feb. 3, 1953. Group 39—13. Reg. No. 51,589.

The following 4 patents relate to washing machines, wringers, and ironers.

Pat. 2,599,238. Shoe Actuating Means for Automatic Flatplate Ironers. June 3, 1952. Group 35—81. Reg. No. 51,590.

Pat. 2,599,239. Wringer Drive Gear Mechanism. June 3, 1952. Group 35—81. Reg. No. 51,591.

Pat. 2,599,243. Emergency Declutching Mechanism for Clothes Wringers. June 3, 1952. Group 35—81. Reg. No. 51,592.

Pat. 2,608,082. Automatic Washing Machine Control. Aug. 26, 1952. Group 35—81. Reg. No. 51,593.

The following 5 patents relate to: Refrigerator systems and cabinets; devices for indicating the amount of frost on evaporators; and automatic defrosting means.

Pat. 2,618,934. Defrost Indicator for Refrigerators. Nov. 25, 1952. Group 35—84. Reg. No. 51,594.

Pat. 2,619,067. Frost Indicator for Refrigerators. Nov. 25, 1952. Group 35—84. Reg. No. 51,595.

Pat. 2,621,489. Refrigerator Cabinet Having Means To Improve Temperature Distribution. Dec. 16, 1952. Group 35—84. Reg. No. 51,596.

Pat. 2,622,405. Two-Temperature Refrigerating System. Dec. 23, 1952. Group 35—84. Reg. No. 51,597.

Pat. 2,624,180. Automatic Defrost Actuator. Jan. 6, 1953. Group 35—84. Reg. No. 51,598.

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 15, 1953

[VOL. 674. No. 3]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 613,652. Edward H. Scanlon, doing business as Westlake Horticultural Estab., Cleveland, Ohio. Filed May 8, 1951.

TAILORED

For Natural Trees.
Claims use since Mar. 23, 1950.

Ser. No. 619,202. Victor J. Judson, doing business as Judson Nurseries, Bristol, Ind. Filed Sept. 25, 1951.

red rich

For Strawberry Plants.
Claims use since January 1951.

Ser. No. 638,010. National Plastics, Inc., Knoxville, Tenn. Filed Nov. 13, 1952.

PLASTONE

For Phenolic Molding Compound.
Claims use since Nov. 15, 1940.

Ser. No. 639,181. Madagascar Graphite and Mica Company, New York, N. Y. Filed Dec. 8, 1952.

TEXTIGLASS

For Textile Cloth Made of Glass Fibres for Use With Other Raw Materials Including Chemicals in Making Reinforced Plastics.
Claims use since Apr. 18, 1952.

Ser. No. 642,112. Magnet Cove Barium Corporation, Bellaire, Tex. Filed Jan. 26, 1953. (Sec. 2f.)

SALT GEL

The word "Gel" is disclaimed Apart From the Mark as shown.
For Dry Ground Native Clay.
Claims use since May 1, 1946.

Ser. No. 642,518. The Barash Company, Inc., New York, N. Y. Filed Feb. 20, 1953.

BARCO

Apart from the combination shown the words "All Leather Fibres" are disclaimed.
For Combination of 100% Leather Fibres and a Saturant Latex.
Claims use since Jan. 15, 1951.

CLASS 2

RECEPTACLES

Ser. No. 630,946. Motor Products Corporation, Detroit, Mich., and North Chicago, Ill. Filed June 9, 1952.

Deepfreeze

Applicant claims ownership of Registrations Nos. 390,264 and 540,892.
For Plastic Bags, Waxed Paper Cartons, and Heat Sealing Paper Bags for Frozen Food Packaging.
Claims use since Mar. 4, 1952.

Ser. No. 633,243. Newark Paraffine & Parchment Paper Co., Newark, N. J. Filed May 23, 1952.

LUSTASEEL

Applicant disclaims the term "Seel" apart from the mark as shown in the drawing. Applicant claims ownership of Registration No. 296,366.

For Paper Bags, Paper Cardboard Boxes, Paper Trays, Paperboard Shipping Cases, and Paperboard Shipping Cartons and Waxed Paper Cups.

Claims use since Mar. 8, 1932.

Ser. No. 639,098. Juil R. Goggins, Minneapolis, Minn. Filed Dec. 18, 1952.

MCV

For Military Casket and Vault.

Claims use since 1933.

Ser. No. 645,612. Wolf Brothers, Inc., Philadelphia, Pa. Filed Apr. 20, 1953.

THICKET

For Paper Bags.

Claims use since Apr. 1, 1953.

Ser. No. 645,613. Wolf Brothers, Inc., Philadelphia, Pa. Filed Apr. 20, 1953.

VALANCE

For Paper Bags.

Claims use since Dec. 4, 1952.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 617,422. Curtiss G. Strausser, doing business as Brite Side Products, Akron, Ohio. Filed Aug. 7, 1951.

Brite Side

The word "Brite" is disclaimed.

For All-Purpose Cleaning and Polishing Preparation.

Claims use since June 1951.

Ser. No. 641,460. National Laboratories, Inc., Toledo, Ohio. Filed Jan. 28, 1953.

DURA-TEX

For Self-Polishing Wax for Creating a Glossy Protective Coating on Floor Surfaces.

Claims use since Oct. 7, 1952.

CLASS 5

ADHESIVES

Ser. No. 626,996. Nu-Seal Mfg., Co., Oakland, Calif. Filed Mar. 25, 1952.

TWIN SEAL

The drawing is lined for orange and brown.

For Glues.

Claims use since Jan. 15, 1952.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 593,734. Magno-Syn-Werk, G. m. b. H., Duisburg am Rhein, Germany. Filed Mar. 10, 1950.

MAGNO

Priority is claimed under Sec. 44(d). German application filed Sept. 12, 1949, Registration No. 616,843, dated Feb. 15, 1952.

For Water Purification Compound Made Primarily From Dolomite Stone.

Ser. No. 631,128. Mary Louise Shepard, doing business as Shepard's Chemical Works, Wilmington, N. C. Filed June 12, 1952.

PINESOL

For Disinfectants and Deodorizers for Household and Industrial Use.

Claims use since Jan. 25, 1918.

Ser. No. 632,624. Marco Chemicals, Inc., Linden, N. J., assignor to Celanese Corporation of America, a corporation of Delaware. Filed July 16, 1952.

MARCO

For Liquid Synthetic Resins.

Claims use since in or about July 1942.

Ser. No. 632,625. Marco Chemicals, Inc., Linden, N. J., assignor to Celanese Corporation of America, a corporation of Delaware. Filed July 16, 1952.

MR

For Liquid Synthetic Resins.

Claims use since in or about July 1942.

Ser. No. 634,584. Foam-Crete, Incorporated, Scranton, Pa. Filed Aug. 28, 1952.



For Liquid Chemical Compound for Addition to Concrete Mixes and the Like for Making Lightweight Concrete Products.

Claims use since Aug. 16, 1952.

Ser. No. 636,972. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Filed Oct. 22, 1952.

Desmodur

Applicant claims ownership of German Registration No. 555,351, dated Mar. 11, 1943.

For Synthetic Plastic Materials in the Form of Liquid Compositions, Powders, and Granules Having Various Uses in the Industrial Arts.

Ser. No. 639,078. The River Plate Corporation, New York, N. Y. Filed Dec. 5, 1952.

ARGAM

For Quebracho Extract.

Claims use since Mar. 15, 1902.

Ser. No. 639,975. Jamil Akhtar, doing business as India Cosmetic Co., Detroit, Mich. Filed Dec. 24, 1952.

THE RACER

For Incense.

Claims use since May 1947.

Ser. No. 643,187. Chester H. Roth Co., Inc., New York, N. Y. Filed Mar. 5, 1953.

NYLONG

For Liquid Preparation To Rinse Nylon Hose.

Claims use since Jan. 26, 1953.

Ser. No. 645,395. Culligan, Inc., Northbrook, Ill. Filed Apr. 16, 1953.

HUMI-SORB

For Desiccant for Use in Packaging Food, Pharmaceuticals, and Other Products.

Claims use since Mar. 23, 1953.

Ser. No. 645,441. Thompson Chemicals Corporation, Los Angeles, Calif. Filed Apr. 16, 1953.

WEEDABOMB

Applicant claims ownership of Registration No. 514,966.

For Concentrate Liquid Chemical Used in a Solution as a Spray on Weeds, for the Purpose of Destroying Said Weeds.

Claims use since Feb. 25, 1953.

Ser. No. 645,467. Raffaele De Angelis, doing business under the name of Thymoform Company, Providence, R. I. Filed Apr. 17, 1953.

Thymoform

Applicant claims ownership of Registration No. 237,831.

For Disinfectant.

Claims use since Dec. 1, 1925.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 602,327. Midwest Plywood Company, Detroit, Mich. Filed Aug. 17, 1950.

Ranchwood

For Wall Board.

Claims use since Aug. 5, 1950.

Ser. No. 617,257. E. J. Lavino and Company, Philadelphia, Pa. Filed Aug. 2, 1951.

HOTKROME

For Ground Dry Refractory Product in Granular Form To Be Applied by Gunning for Repairing Hot Furnaces.

Claims use since Oct. 12, 1950.

Ser. No. 626,118. Roma Tex Brix Co., Portland, Oreg. Filed Mar. 7, 1952.

ROMA TEX BRIX

The term "Brix" is disclaimed apart from the mark as shown.

For Bricks Made of Concrete and Having One Rough Face.

Claims use since June 1, 1951.

Ser. No. 630,711. Lasio Horecny, Seaside, Oreg. Filed June 4, 1952.

AIRLINE SHAKES

The exclusive use of the term "Shakes" is disclaimed apart from the mark as shown in the drawing.
For Wooden Shingles and Shakes.
Claims use since June 5, 1951.

Ser. No. 630,974. Trimedge, Inc., Youngstown, Ohio. Filed June 9, 1952.

Bonn-e-trim

No claim is made to the word "Trim" apart from the mark as shown.
For Extruded and Rolled Metal Moldings for Architectural Use.
Claims use since May 12, 1952.

Ser. No. 630,975. Trimedge, Inc., Youngstown, Ohio. Filed June 9, 1952.

Bonn-e-Luster

No claim is made to the word "Luster" apart from the mark as shown.
For Extruded and Rolled Metal Moldings for Architectural Use Having a Corrosion-Resistant Finish.
Claims use since May 12, 1952.

Ser. No. 632,918. Martin Capp, doing business as M. Capp Manufacturing Co., Minneapolis, Minn. Filed July 23, 1952. (Sec. 2f.)

CAPP-HOMES

The use of the word "Homes" apart from the mark is disclaimed.
For Prefabricated, or Pre-Cut Homes.
Claims use since on or about Sept. 15, 1946.

Ser. No. 635,682. Bond-Howell Lumber Company, Jacksonville, Fla., assignor to Con-Dor Corporation of America, Jacksonville, Fla., a corporation of Florida. Filed Sept. 24, 1952.

CON DOR

No exclusive claim is made to the representation of the door as it appears in the design or to the word "Dor" apart from the mark as shown in the drawing.
For Packaged Door Units, Consisting of Door, Frame, Trim, and Hardware Attached.
Claims use since Sept. 11, 1952.

Ser. No. 642,644. H. D. Hudson Manufacturing Company, Chicago, Ill. Filed Feb. 24, 1953.



Although the drawing is lined to show the colors red and yellow, no specific color is claimed as a feature of the mark.
For Stalls, Partitions, Cattle Pen Panels Sold Together With Fittings Therefor, Columns and Stock Stanchions.
Claims use since 1925.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 581,270. John R. Lentz, trading as Lentz Novelty Co., Philadelphia, Pa. Filed June 29, 1949. (Sec. 2f.)

BACK O'DOOR

For Utility Racks, Adapted To Be Secured to Any Desired Surface, Especially the Inside Surface of a Door, for Hanging Hats, Shoes, Neckties, Brooms, Kitchen Utensils, and Other Articles Thereon, Made of Metal or Other Suitable Material.
Claims use since on or about Apr. 29, 1927.

Ser. No. 632,542. Whitney Screw Corporation, Nashua, N. H. Filed July 14, 1952.

double-quick

For Wood Screws.
Claims use since June 23, 1952.

Ser. No. 636,137. The Mellowes Company, Milwaukee, Wis. Filed Oct. 3, 1952.

Coin Pak

No claim is made to the word "Pak" apart from the mark as shown.
For Washers (the Type Used With Nuts and Bolts) and More Specifically Lock Washers.
Claims use since June 2, 1952.

Ser. No. 636,479. Vern J. Hively, doing business as Alliance Valve Company, Alliance, Ohio. Filed Oct. 10, 1952.

alliance TEMPERATOR

For Valves for Tempering Water in Toilet Tanks and the Like.
Claims use since Sept. 11, 1952.

Ser. No. 641,465. Richmond Engineering Co., Inc., Richmond, Va. Filed Jan. 28, 1953.

RECO

Applicant claims ownership of Registration No. 179,664.
For Septic Tanks.
Claims use May 1, 1921.

Ser. No. 642,923. Flodar Corporation, Cleveland, Ohio. Filed Feb. 25, 1953. (Sec. 2f.)

Griptube

For Metal Hydraulic Tube Fittings.
Claims use since on or about Feb. 5, 1946.

Ser. No. 643,030. Colonial Sales Corporation, Columbus and Worthington, Ohio. Filed Mar. 3, 1953.

KAN KADDY

The term "Kan" is disclaimed apart from the mark as shown.
For Paint Bucket Supporting Bracket for Use in Conjunction With Ladders.
Claims use since Nov. 11, 1952.

Ser. No. 643,198. Vance Industries, Inc., Evanston, Ill. Filed Mar. 5, 1953.

VAN SEAL

For the purpose of this registration the word "Seal" is disclaimed apart from the mark, but no common law or other rights are waived.
For Frames, Supporting Brackets, and Clamps for Use in Installing Sink Bowls in Drain Boards and Electric Burner Plates and Wooden Chopping Blocks in Kitchen Counter Tops.
Claims use since Apr. 24, 1950.

Ser. No. 643,555. P and G Supply Company, Inc., New York, N. Y. Filed Mar. 12, 1953.

P and G

For Hose Couplings, Including Y Mixers, Elbow Couplings, Gooseneeks, Snap Couplers, Hose Clamps, Hose Fittings, By-Pass Valves, Faucet Adaptors, Faucet Strainers, Hose Nipples, Pump Drain Fittings, Hose Shanks, Hose Splines; Shut-Off Valves for Washing Machine Inlet Hose.
Claims use since 1947.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 627,644. Reish Products, Inc., South Bend, Ind. Filed Apr. 5, 1952.

TEMP

For Aluminum Foil Sold in Sheets and Rolls.
Claims use since Jan. 24, 1952.

Ser. No. 630,371. Aluminum Foils, Inc., New York, N. Y. Filed May 28, 1952.

HIGHEST QUALITY

The words "Highest Quality" are disclaimed apart from the mark as shown.
For Metal Sheets and Particularly Foils of Aluminum and Aluminum Alloys.
Claims use since Jan. 2, 1950.

CLASS 15

OILS AND GREASES

Ser. No. 630,961. Royal Engineering Co., East Hanover, N. J. Filed June 9, 1952.

Molyfilm

For Lubricant for Internal Combustion Engines.
Claims use since Aug. 18, 1951.

Ser. No. 631,862. Gulf Oil Corporation, Pittsburgh, Pa. Filed June 27, 1952.

HI-JET

For Cutting Oil.
Claims use since on or about Dec. 11, 1951.

Ser. No. 643,772. Muench-Kreuser Candle Co., Inc., Syracuse, N. Y. Filed Mar. 17, 1953.

AMBASSADOR

For Candles.
Claims use since Nov. 20, 1935.

Ser. No. 643,778. Muench-Kreuser Candle Co., Inc., Syracuse, N. Y. Filed Mar. 17, 1953.

ROYAL

For Candles.
Claims use since July 1, 1925.

Ser. No. 643,780. Muench-Kreuser Candle Co., Inc., Syracuse, N. Y. Filed Mar. 17, 1953.

WHITE ROCK

For Candles.
Claims use since Aug. 23, 1941.

Ser. No. 644,434. National Chemical Company, Los Angeles, Calif. Filed Mar. 30, 1953.

TYFO

For Fuel Oil Additives for Dissolving Gums, Sludge, and Tars and Increasing Combustion Efficiency.
Claims use since Nov. 15, 1948.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 607,919. Alton Laboratories, Inc., Chicago, Ill. Filed Dec. 21, 1950.

LUCITEX

For Ready Mixed Paints Containing a Water Dispersion Vehicle.
Claims use since June 5, 1950.

Ser. No. 639,700. Minnesota Mining and Manufacturing Company, St. Paul, Minn. Filed Dec. 18, 1952.

SCOTCHCAL

Applicant claims ownership of Registration No. 565,512.
For High Viscosity Coating Compound of Pigment and Vehicle for Use in the Graphic Arts Process Called Silk Screening.
Claims use since at least as early as September 1952.

Ser. No. 643,745. Western Mineral Products Company, Minneapolis, Minn. Filed Mar. 16, 1953.

PERLTEX

For Paint Additive.
Claims use since Aug. 3, 1951.

Ser. No. 644,396. Duron Paint Manufacturing Company, Washington, D. C. Filed Mar. 30, 1953.

DURAN

For Ready-Mixed Paint, Varnishes, Wood Stains, Rubber Base Paint, and Paint Enamels.
Claims use since Jan. 28, 1953.

Ser. No. 644,397. Duron Paint Manufacturing Company, Washington, D. C. Filed Mar. 30, 1953.

DURON

For Ready-Mixed Paint, Varnishes, Wood Stains, Rubber Base Paint, and Paint Enamels.
Claims use since Jan. 28, 1953.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 609,371. Medical Specialties, Inc., Rochester, Minn. Filed Jan. 29, 1951.

EMEBAL

For Sedative Containing Barbiturate and Emetic.
Claims use since Jan. 19, 1951.

Ser. No. 622,607. Marlyn Co., Inc., Los Angeles, Calif. Filed Dec. 17, 1951.

TEST-ESTRIN

The term "Estrin" is disclaimed apart from the mark as shown on the drawing.
For Buccal or Sublingual Tablets Containing Crystalline Alpha-Estradiol and Testosterone for Use in the Treatment of Hypo-Ovarianism.
Claims use since Nov. 30, 1948.

Ser. No. 623,827. The Drug Products Co., Inc., East Orange, N. J. Filed Jan. 21, 1952.

DERMACOL

For Medicinal Skin Lotion for External Application in Sunburn, Chafing, and Minor Skin Irritations.
Claims use since May 12, 1913.

Ser. No. 626,682. The S. E. Massengill Company, Bristol, Tenn. Filed Mar. 19, 1952.

BESEM

For Oral Pharmaceutical Preparation Indicated for Use Where a Vitamin B-Complex Supplement Is Required.
Claims use since Oct. 15, 1951.

Ser. No. 626,685. The S. E. Massengill Company, Bristol, Tenn. Filed Mar. 19, 1952.

NUTRIL

For Oral Veterinary Preparation Indicated for Conditions Requiring a Nutritional Supplement.
Claims use since Feb. 13, 1952.

Ser. No. 627,967. Schenley Laboratories, Inc., New York, N. Y. Filed Apr. 11, 1952.

MEPHYLINE

For Medicinal Preparation for the Treatment of Pre-Menstrual Tension.
Claims use since Sept. 27, 1951.

Ser. No. 627,968. Schenley Laboratories, Inc., New York, N. Y. Filed Apr. 11, 1952.

MEPHYLLAMINE

For Medicinal Preparation for the Treatment of Pre-Menstrual Tension.
Claims use since Sept. 27, 1951.

Ser. No. 627,969. Schenley Laboratories, Inc., New York, N. Y. Filed Apr. 11, 1952.

PRETENSIN

For Medicinal Preparation for the Treatment of Pre-Menstrual Tension.
Claims use since Sept. 27, 1951.

Ser. No. 628,953. E. S. Miller Laboratories, Inc., Los Angeles, Calif. Filed Apr. 30, 1952.

POLYVIMS

For Multi-Vitamin and Multi-Mineral Preparation.
Claims use since Jan. 7, 1952.

Ser. No. 632,363. Philip Fischer, doing business as Phil Fischer Company, Chicago, Ill. Filed July 10, 1952.

STOP-AID

For Antiseptic, Hemostatic, and Styptic Ointment.
Claims use since Jan. 12, 1952.

Ser. No. 633,327. Prop Products, Los Angeles, Calif. Filed July 31, 1952.

PROP

For Food Supplements in Liquid and Powder Form, and Containing Vitamins, Enzymes, Minerals, and Amino Acids.
Claims use since Apr. 21, 1952.

Ser. No. 634,017. Joseph Steele Johnson, doing business as Steele Formulae Company, Cleveland, Ohio. Filed July 14, 1952.

POMAGNIDE

For Preparation for the Treatment of High Blood Pressure.
Claims use since July 1, 1942.

Ser. No. 637,614. Robinson-Wagner Co., Inc., New York, N. Y. Filed Nov. 4, 1952.

ASTRINGEL

For Aqueous Solutions of an Aluminum Salt of an Inorganic Acid Having Astringent Properties as Medicinal Astringents.
Claims use since Oct. 1, 1952.

Ser. No. 640,517. Italian Drugs Importing Co. Inc., New York, N. Y., assignor to Delmond Pharmaceutical Corporation, New York, N. Y. Filed Jan. 8, 1953.

SPUN-GEL

No claim is made herein to the exclusive right to the word "Gel" apart from the mark as shown.
For Absorbable Hemostatic Gelatin Sponge.
Claims use since Jan. 6, 1953.

Ser. No. 640,535. Sutliff & Case Co. Inc., Peoria, Ill. Filed Jan. 8, 1953.

SINCE 1883

Applicant claims ownership of Registration No. 564,700.
For Medicinal Preparations—Humans: Group 1—Atropine Sulfate Tablets; Group 2—Soluble Capsule Useful for the Control of Anemia; Soluble Capsule for Use as a Vasodilator and Sedative; Group 3—Preparation for Prevention of B-Complex Deficiency and as a Dietary Supplement; Group 4—Medicinal Tablet Useful for the Control of Arterial Hypertension; Group 5—Medicinal Tablet Useful for Prevention of Iron, Calcium, and Phosphorus Deficiencies; Group 6—Vitamin Capsules Containing Niacin Amide and Calcium Pantothenate; Group 7—Medicinal Capsule for the Treatment of Iron Deficiency and as a Dietary Supplement; Capsules of Powdered Digitalis; Group 8—Medicinal Tablets Useful as Myocardial Stimulant and Diuretic; Group 9—Medicinal Preparation for Use as a Cholagogue Laxative; Group 10—Quinidine Sulfate Tablets; Medicinal Liquid of Vitamins A, B, B_2, C, and D, With Niacinamide; Group 11—Astringent Powder; Group 12—Sodium Salicylate Tablets; Ammoniated Brown Mixture Compound; Group 13—An Anodyne Expectorant and Sedative Compound; Group 14—A Sedative and Expectorant Compound; Group 15—An Intestinal Anti-Ferment Compound; Group 16—Quinine Sulfate Tablets; an Anal-

gesic and Antipruritic Lotion; Group 17—An Antipyretic and Analgesic Compound; Denatured Alcohol for External Use, Medicated With Thymol, Menthol, and Eucalyptol; Group 18—Medicinal Tablet Comprising Hexamine and Sodium Acid Phosphate; Gargle and Spray in Throat and Nasal Affections; Group 19—d-Amphetamine Sulfate Tablets; Group 20—Calcium Iodized Tablets; Suspension of Compounded Sulfonamides in a Flavored Base; Group 21—Liquid Medicinal Preparation Useful for Control of Arterial Hypertension; Group 22—Vaginal Douche Powder; Compound Useful as an Antianemic and for Vitamin B_1 Deficiency; Group 23—Medicinal Tablet Consisting of Methenamine and Hexamethylenamine; Lactated Pepsin Elixir; Phenolphthalein Aloin Compound With Strychnine; Diascarica Enzyme Ipecac Compound; Group 24—Sodium Bicarbonate Tablet; Group 25—Expectorant Compound; Compound Useful To Counteract Symptoms of Gastric Hyperacidity and Peptic Ulcer; Group 26—Saccharin Tablet; Tonic Compound With Strychnine; an Analgesic, Local Anesthetic, and Counter-Irritant; Group 27—Alterative Tablet; Group 28—Antacid and Stomachic Compound; Carotene Ointment; Group 29—Tablet for Preventing Vitamin B_1 Deficiency; Group 30—Ointment Having Antibiotic, Germicidal, and Antihistaminic Properties; Group 31—A Laxative Compound; Group 32—Desiccated Thyroid Gland; an Antispasmodic Compound; Group 33—Aspirin-Dover Compound With Atropine; Adult Size Suppositories; Astringent Ointment; Rutin Tablets; Theophylline-Ethylenediamine Tablets; Elixir Pepsin Compound; White Pine Compound Syrup; Group 34—Pentobarbital Sodium Tablets; Phenobarbital Tablets; Group 35—Strychnine Sulfate Tablets; Group 36—Medicinal Tablets Useful for the Control of Arterial Hypertension; Group 37—Soda Mint Tablets; Group 38—Analgesic Tablets; Group 39—Antirheumatic Tablets; Ferrous Gluconate Tablets; Antasthmatic Tablet; Group 40—Medicinal Syrup Containing Choline Dihydrogen Citrate; Group 41—Phenobarbital Sedative Elixir; Group 42—Fluid Extract of Cascara Sagrada; Group 43—Long Suppositories for Infants; Bismuth-Kaolin Mixture, Useful in Simple Diarrhea; Group 44—Camphorated Tincture of Opium (Paregoric); Group 45—Tablet Containing d-Desoxyephedrine Hydrochloride; Liniment; Group 46—Tincture of Iodine; Group 47—Expectorant Useful for Coughs Due to Colds; Group 48—Lugol's Solution of Iodine; Antirheumatic Compound; Group 49—Haines' Test Solution for the Detection of Sugar; Group 50—Medicinal Compound Containing Phenobarbital and Atropine Sulfate; Wafer of Dicalcium Phosphate; Tablets Containing Sodium 2,5 Dihydroxybenzoate; Group 51—3-Ortho-Toloxy-1,2-Propanediol (Mephenesin) Tablets; Medicinal Liquid Containing 3-Ortho-Toloxy-1,2-Propanediol (Mephenesin); Group 52—Niacinamide Tablets; Group 53—Elixir of Phenobarbital; Terpin Hydrate and Codeine Elixir; Expectorant Compound With Morphine; Group 54—Non-Greasy Ointment Useful Where a Local Anesthetic, Astringent, and Anti-Pruritic Is Required; Group 55—Analgesic Ear Drops; Antineuritic Tablet; Aspirin-Phenacetin Tablets With Codeine; Group 56—Salicylamide Tablets; Iron, Quinine, and Strychnine Elixir; Group 57—Benedict's Qualitative Reagent for Sugars Reduction; Buchuatropine Compound; Digitalis-Strophanthus Belladonna Compound; Sedative Compound Containing Phenobarbital; Group 58—Antispasmodic, Expectorant, and Sedative Cough Syrup; Group 59—Milk of Magnesia Tablets; Aspirin-Phenacetin With Caffeine; Rhubarb and Sodium Laxative Compound; Group 60—Sodium Nitrite Compound Useful in the Treatment of Hypertension of the Cardio-Vascular System; Group 61—Nose Drops; Group 62—Analgesic Throat Wafers; Medicinal Preparations—Animal: Group V1—Ointment for Use in Burns and as a Vulnerie; Compound for Use in Nicotinic Acid Deficiency and Anemia in Enteric Conditions of Swine; Group V2—Astringent Compound for Addition to Poultry Drinking Water; Group V3—Pheno-Thiazine Vermifuge Compound; Group V4—Sodium Fluoride Powder; Borated Zinc-Naphthalene Antiseptic and Astringent Dusting Powder; Group V5—Mercury-Perchloride Antiseptic and Disinfectant Compound; Bismuth Salicylate Compound Useful in Diarrhea and Gastro-Intestinal Fermentation; Group V6—Krameria-Catechu and Rubus Compound Useful in Diarrhea and Other Intestinal Disturbances Requiring an Astringent; Sulfathiazole Compound Useful Against Infections Caused by Susceptible Bacteria; Antiseptic Compound; Group V7—Camphor, Ether, and Guaiacol Compound Useful as a Circulatory and Respiratory Stimulant; Group V8—Ointment for Use as an Antiseptic, Analgesic, and Astringent; Group V9—Iron Sulfate Compound Useful as an Aid in the Prevention of Anemias; Group V10—Phenol and Camphor Compound, Useful as a Local Antiseptic Solution; Group V11—Iron, Strychnine, and Arsenic Compound Useful as a General Systemic Tonic, Hematinic, and Alterative; Group V12—Potassium Guaiacol Sulfonate and Ammonium Chloride Compound for the Alleviation of Simple Affections of the Respiratory Tract; Group V13—Sodium Arsanilate Tablets; Compound of Sulfo-Carbolates for Addition to Poultry Drinking Water as an Intestinal Antiseptic; Liniment; Group V14—Triple Sulfa Solution; Group V15—Liquid Antiseptic and Astringent for Burns, Wounds, and Ulcers; Group V16—Dextrose Solution; Cresol-Guaiacol Compound; Group V17—Calcium Gluconate and Dextrose Compound Useful in Calcium Deficiency and Milk Fever; Group V18—Fluid Extract of Nux Vomica.

Claims use since Aug. 15, 1950.

Ser. No. 640,919. The Denver Chemical Manufacturing Company, New York, N. Y. Filed Jan. 19, 1953.

Inongan

For Medicated Rub.

Claims use since Jan. 2, 1953.

Ser. No. 641,050. The Harrower Laboratory, Inc., Jersey City, N. J. Filed Jan. 21, 1953.

ISOPAQUE

For Preparation for Internal Administration Used as an Aid in X-Ray Diagnosis.

Claims use since Dec. 1, 1952.

Ser. No. 641,645. James F. Stilwell, doing business under the style and title of J. F. S. Company, Omaha, Nebr. Filed Feb. 2, 1953.

5 in 1

For Liniment Used for the Relief of Rheumatism, Arthritis, Neuritis, Sore Muscles, and Sprains.

Claims use since on or about Jan. 5, 1953.

Ser. No. 641,657. Chichester Chemical Co., Philadelphia, Pa. Filed Jan. 15, 1953.

DIAMOND ◆ BRAND

The word "Brand" is disclaimed. Applicant claims ownership of Registration No. 435,513.

For Product for the Relief of Menstrual Pain.

Claims use since Oct. 20, 1887.

CLASS 19

VEHICLES

Ser. No. 642,553. Industrial Shipping Company Limited, Mahone Bay, Lunenburg, Nova Scotia, Canada. Filed Feb. 20, 1953.



No claim is made to the representation of a boat apart from the mark as shown. The drawing is lined for orange and gold but color is not an essential feature of the mark.

For Wooden Boats and Unfinished Hulls of Boats Used as Motor Boats, Row Boats, Tenders, Dinghies, Sailing Dinghies, Life Boats, and Outboard Cruisers and Patrol Boats.

Claims use since Nov. 26, 1952; and first used in commerce between Canada and the United States on Jan. 7, 1953.

Ser. No. 643,252. Trailmobile Inc., Cincinnati, Ohio. Filed Mar. 6, 1953.

T/M

For Cargo Trailers, Truck Bodies, and Structural Parts Thereof.

Claims use since Jan. 29, 1953.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 630,478. Congoleum-Nairn Inc., Kearny, N. J. Filed May 29, 1952.

DURALIN

Applicant claims ownership of Registrations Nos. 120,019 and 202,155.

For Flexible Floor and Wall Coverings in the Nature of Linoleum, Felt Base, Having Wear-Resistant Composition, Coated or Printed Surfaces.

Claims use since Jan. 26, 1917.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 610,674. Duro-Test Corporation, North Bergen, N. J. Filed Mar. 1, 1951.

Tuxor

For Incandescent Bulbs, Fluorescent Tubes, and Fluorescent Tube Fixtures.

Claims use since Nov. 23, 1948.

Ser. No. 623,568. U. S. Electrical Motors, Inc., Los Angeles, Calif. Filed Jan. 14, 1952.

VELVATROL

For Electromagnetically Operated Combination Brake and Clutch Mechanism Especially Adapted To Be Applied to an Electric Motor.

Claims use since Nov. 15, 1951.

Ser. No. 637,380. Irvington Varnish & Insulator Company, Irvington, N. J. Filed Oct. 30, 1952.

IRV-O-BESTOS

For Electrical Insulation Material Consisting of Film Bonded to Asbestos Paper.

Claims use since Aug. 27, 1952.

Ser. No. 640,175. True Tronics, Inc., Chicago, Ill. Filed Dec. 30, 1952.

WHIRL WIN

For Television Antennae.

Claims use since on or about Oct. 11, 1952.

Ser. No. 641,853. Miller Electric Manufacturing Co., Appleton, Wis. Filed Feb. 6, 1953. (Sec. 2f.)

miller

The drawing is lined for shading purposes only.

For Electrical Welders, Spot Welders, and Welding Equipment, Including Combination Welders and Generators.

Claims use since Apr. 10, 1938.

Ser. No. 642,394. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Filed Feb. 18, 1953.

ARC-O-GEN

The word "Arc" is disclaimed apart from the mark as shown.

For Arc Welding Machines.

Claims use since Jan. 6, 1953.

Ser. No. 643,561. Spiegel, Inc., Chicago, Ill. Filed Mar. 12, 1953.

Homestead

Applicant claims ownership of Registrations Nos. 421,853, 543,061, and 568,250.

For Electric Ranges and Electric Dish Washers.

Claims use since on or about Jan. 1, 1951.

Ser. No. 645,718. Kliegl Bros. Universal Electric Stage Lighting Co., Inc., New York, N. Y. Filed Apr. 22, 1953.

KLIEGTRONIC

For Electrical Apparatus—Namely, Electronic Switchboards.
Claims use since December 1952.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 622,020. Jet-Ball Game Company, St. Louis, Mo. Filed Dec. 3, 1951.



Applicant makes no claim to any of the wording except "Jet" apart from the mark shown.
For Mechanical Tennis-Simulating Table Game.
Claims use since Nov. 10, 1951.

Ser. No. 622,520. Franklin H. Weber, doing business as Weber Mfg. Co., Chicago, Ill. Filed Dec. 14, 1951.

Dot Line

No registration rights are claimed for the word "Line" apart from the mark shown in the drawing.
For Fish Nets, Fish Bags, and Basketball Nets, and Cut to Size Replacement Netting Therefor.
Claims use since Aug. 16, 1949.

Ser. No. 628,466. Burke Golf Equipment Corporation, Newark, Ohio. Filed Apr. 22, 1952.

HY+SPEED LUS

For Golf Balls.
Claims use since Mar. 25, 1952.

Ser. No. 632,072. Burke Golf Equipment Corporation, Newark, Ohio. Filed July 2, 1952.

HYSPEED

For Golf Clubs and Golf Balls.
Claims use since September 1938.

Ser. No. 632,073. Burke Golf Equipment Corporation, Newark, Ohio. Filed July 2, 1952. (Sec. 2f.)

"SAV-A-SHOT"

For Golf Clubs.
Claims use since September 1938.

Ser. No. 632,106. The Actual Lure Co., Inc., New York, N. Y. Filed July 3, 1952.

Spin-ster

The word "Spin" is disclaimed apart from the mark as shown.
For Fish Lures Comprising Real Fish Encased in Plastic.
Claims use since June 10, 1952.

Ser. No. 632,567. Arthur F. Marquette, doing business under the trade-name of Auto-Bet Co., Chicago, Ill. Filed July 15, 1952.

AUTO-BET

The term "Auto" is disclaimed apart from the mark as shown.
For Game Consisting of a Plurality of Cards Depicting Words and Objects To Be Identified While Traveling.
Claims use since May 20, 1952.

Ser. No. 643,750. Ziff-Davis Publishing Company, New York, N. Y. Filed Mar. 16, 1953.



Applicant claims ownership of Registration No. 565,097.
For Children's Play Cartridge Belts, Crayon Receptacles, Coloring Books, Balloons and Other Inflatable Toys, Children's Pocket Knives, Toy Soldiers, Toy Tanks, Toy Planes, Toy Guns, Toy Tents, Toy Mess Kits.
Claims use since Mar. 1, 1952.

Ser. No. 644,697. Toy Tinkers, Inc., Evanston, Ill., assignor to A. G. Spalding & Bros., Inc., Chicopee, Mass., a corporation of Delaware. Filed Apr. 3, 1953.



Applicant claims ownership of Registration No. 135,346.
For Children's Building Elements.
Claims use since Nov. 15, 1919.

Ser. No. 645,330. Louis Marx & Co., Inc., New York, N. Y. Filed Apr. 15, 1953.

Robert E. Lee

Applicant's trade-mark consists of the name of a now deceased famous Confederate general, "Robert E. Lee."
For Toy Pistol.
Claims use since Mar. 17, 1953.

Ser. No. 649,249. Rain-Beau Products Company, Canton, Mass. Filed June 23, 1953.

STOP LITE

For Fishing Lines.
Claims use since Aug. 1, 1952.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 527,143. Lincoln Engineering Company, St. Louis, Mo. Filed July 5, 1947. (Sec. 2f.)

AIRLINE

Applicant claims ownership of Registration No. 215,210.
For Portable and Stationary Air-Operated Pumping Apparatus for Lubricants and Other Fluids—Namely, Air-Operated Lubricant Pumps, Lubricant Guns, and Pressure-Fluid Distribution Systems.
Claims use since Nov. 9, 1925.

Ser. No. 608,004. Holthouse & Hartup, Inc., Waynesboro, Tenn. Filed Dec. 22, 1950. (Sec. 2f.)

Hickory

No claim is made herein to the word "Hickory" apart from the mark as shown.
For Striking Tool Handles.
Claims use since June 1936.

Ser. No. 625,369. Leo C. Robinson, Indianapolis, Ind. Original filed, act of 1946, Supplemental Register, Feb. 21, 1952; amended to application, Principal Register, Mar. 9, 1953.

Jetmatic

For Venetian Blind Spray Cleaning Unit Comprising Pump System, Heater, Tank, and Control Valves.
Claims use since June 15, 1949.

Ser. No. 629,656. Dittmer Gear and Manufacturing Corp., Lockport, N. Y. Filed May 14, 1952. (Sec. 2f.)

DITTMER

For Spur and Helical Gears, Shafts, Hubs, Flanges, and Associated Parts—Namely, Springs, Bearings, Bushings, and Snap Rings, All for Use as Components in Power Mechanisms Generally but Particularly for Use in Internal Combustion Engines and Motor Vehicle Transmissions and Differentials.
Claims use since 1919.

Ser. No. 632,644. Mima Sewing Machine Mfg. Co., Ltd., Fukushima-Ku, Osaka, Japan. Filed Apr. 26, 1952.



For Sewing Machines.
Claims use since July 1935; and since January 1947, in commerce between foreign nations and the United States.

Ser. No. 633,427. A. Reynolds Morse, doing business as Injection Molders Supply Company, Cleveland, Ohio. Filed Aug. 2, 1952.

IMS STARV-WAY

No claim is made to the phrase "Starv-Way," apart from its use in connection with the mark as shown.
For Injection Molding Machine Feeders.
Claims use since on about Jan. 31, 1951.

Ser. No. 633,824. Vaughan Mfg. Co., Chicago, Ill. Filed July 23, 1952.

SAFETY ROLL

Applicant claims ownership of Registration No. 291,079.
For Can Opener.
Claims use since Apr. 18, 1930.

Ser. No. 634,820. White Sewing Machine Corporation, Lakewood, Ohio. Filed Sept. 3, 1952.

miracle stitch

The word "Stitch" apart from the mark as shown is disclaimed.
For Sewing Machines.
Claims use since on or about Aug. 1, 1952.

Ser. No. 637,367. Foley Manufacturing Company, Minneapolis, Minn. Filed Oct. 30, 1952. (Sec. 2f.)

Foley

Applicant claims ownership of Registrations Nos. 289,006 and 519,250.
For Pastry Frames, Spatulas, Juicers, Saw Setters, Saw Sharpeners and Gummers, Lawn Mowers, Files, Saws, Lathes, Jointer Planers, Drill Presses, and Sanding Machines.
Claims use since Nov. 14, 1923.

Ser. No. 637,845. Mima Sewing Machine Mfg. Co., Ltd., Chome, Fukushima-Ku, Osaka, Japan. Filed Apr. 26, 1952.

PEGASUS

For Sewing Machines.
Claims use since July 1935; and since January 1947, in commerce between foreign nations and the United States.

Ser. No. 642,028. Federated Department Stores, Inc., Cincinnati, Ohio. Filed Feb. 10, 1953.

Fed-sharp

No claim is made to the exclusive right to the use of the term "Sharp" separate and apart from the mark as shown. Applicant claims ownership of Registration No. 574,654.
For Household Scissors and Household Shears.
Claims use since Jan. 27, 1953.

Ser. No. 642,225. Hyde Manufacturing Company, Southbridge, Mass. Filed Feb. 13, 1953.



For Putty Knives and Scrapers.
Claims use since Dec. 15, 1952.

Ser. No. 642,612. The E. C. Brown Co., Canandaigua, N. Y. Filed Feb. 24, 1953. (Sec. 2f.)

BROWN'S

For Hand-Operated Pump Type Sprayers, and Parts Therefor.
Claims use since Mar. 19, 1904.

Ser. No. 643,283. The E. C. Brown Co., Canandaigua, N. Y. Filed Mar. 9, 1953.

SIREN

For Hand-Operated Pump Type Sprayers and Parts Therefor.
Claims use since 1922.

Ser. No. 644,331. Mid-West Tool Company, Grand Rapids, Mich. Filed Mar. 27, 1953.

STUDMASTER

For Stud Driving and Removing Tools.
Claims use since Nov. 3, 1951.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 527,888. Victorlite Industries, Los Angeles, Calif., assignee of Victorlite Industries, a partnership. Filed July 5, 1947. (Sec. 2f.)

VISUALCAST

For Still Picture Projecting Machines for Instructional Uses.
Claims use since January 1943.

Ser. No. 606,213. Electronic Tube Corporation, Wyndmoor, Pa. Filed Nov. 10, 1950.

STRAINALYZER

For Electronic Apparatus for Measuring Vibration, Strain, and Dynamic Stresses.
Claims use since Oct. 13, 1950.

Ser. No. 613,717. The Lufkin Rule Company, Saginaw, Mich. Filed May 10, 1951. (Sec. 2f.)

PEERLESS

For Measuring Tape.
Claims use since Sept. 27, 1940.

Ser. No. 618,872. Kent H. Wilson, doing business as Bio-Supply Co., Moscow, Idaho. Filed Sept. 15, 1951.

BIOSCO

For Biological Specimen-Examination Kits, Biological Specimen Jars, Biological and Insect Compartmented Storing Boxes, Plant Presses for Laboratory Use, Microscopes, Microtomes, and Biological Specimens for Microscopic Study.
Claims use since Jan. 1, 1951.

Ser. No. 624,614. Stevens Manufacturing Co., Inc., Mansfield, Ohio. Filed Feb. 6, 1952.

STEMCO

For Thermostats, Temperature Responsive Switches and Valves, and Components Thereof.
Claims use since Nov. 24, 1951.

Ser. No. 624,615. Stevens Manufacturing Co., Inc., Mansfield, Ohio. Filed Feb. 6, 1952.

STEMCO

For Thermostats, Temperature Responsive Switches and Valves, and Components Thereof.
Claims use since Nov. 24, 1951.

Ser. No. 626,986. Regner A. Ekstrom, Jr., doing business as Seico, Instruments, Harvey, Ill. Filed Mar. 25, 1952.

SEICO

The terms "Industrial," "Appliances," and "Instruments" are disclaimed.
For Flow Meters, Pyrometers, Thermometers, and Thermostats for Controlling Temperatures.
Claims use since 1945.

Ser. No. 627,802. Louis D. Bronson, doing business as Franklin Optical Co., Franklin Square, N. Y. Filed Apr. 9, 1952.

MAGNA READA

For Binocular Magnifying Lenses.
Claims use since July 2, 1951.

Ser. No. 628,424. Harry Olson, Seattle, Wash. Filed Apr. 21, 1952. (Sec. 2f.)

REPETEZE

For Photo-Composing Apparatus Sold as a Unit, Comprised of a Precision Line Up and Register Table, a Carrier Glass and Associated Registering Instruments, for Making Sets of Films Which Same Are Used To Produce Sets of Printing Plates for Multiple Color Printing.
Claims use since May 1945.

Ser. No. 630,488. Fairchild Camera and Instrument Corporation, Syosset, N. Y. Filed May 29, 1952.



The applicant disclaims that portion of the mark reading "Fairchild."
For Camera Shutters.
Claims use since Feb. 6, 1952.

Ser. No. 631,957. Zeiss Ikon, A. G., Stuttgart, Germany. Filed Mar. 5, 1952.

CONTESSA

For Photographic Apparatus—Namely, Photographic Lenses, Shutters, Light Filters, View Finders, Stereoscopes, Selftimers, Tripods, Tripod Heads, Camera Filters, Sensitised Plates, Sensitised Films, Sensitised Roll Films, Sensitised Film Packs, Sensitised Photographic Papers, Sensitised Photographic Cards, Masks, Vignettes, Finders for Picture Delineation, Plate Slides, Roll Film Slides, Film-Pack Slides, Developing Basins, Fixing Basins, Photographic-Developing Machines, Dropping Bottles, Plate Lifters, Plate Holders, Draining Clamps for Films, Printing Frames, Photo-Flash Lamps, Scales for Use in the Art of Photography, Weights for Scales, Thermometers, Film Enlargers, Episcopes, Epidiascopes, Apparatus for the Projection of Lantern Slides, Projecting Microscopes, Cinematographic Moving-Picture Cameras, Cinematographic Projectors and Machines, Cine Printing Machines, Film Rewinders, Projection Screens, Slide Carriers Forming Part of Projecting Machines, Condenser Lenses, Prisms, Hemometers, Exposure Meters, Chronographs, Gas-Pressure Meters; Barometers, Field Prism Glasses, Telescopes, Microscopes, Densographs, Spectrodensographs, Calculating Machines.
Claims use since Dec. 1, 1949.

Ser. No. 633,092. Trans-Sonics, Inc., Bedford, Mass. Filed July 25, 1952.

TRANS-SONICS

For Pressure Gauges or Pressure Sensing Devices Operated by Gas Pressures and Giving an Electrical Signal Output; Temperature Gauges or Temperature Sensing Devices Provided With a Resistance Element Subjected to Variations in Temperature and Giving an Electrical Signal Output; and Devices for Simulating the Output of Strain Gauges Provided With a Beam Carrying Electrical Resistance Elements on Which Weights Are Placed To Vary the Electrical Output of the Resistance Elements.
Claims use since Aug. 6, 1948.

Ser. No. 633,756. Da-Lite Screen Company, Inc., Chicago, Ill. Filed Aug. 12, 1952.

Black Magic

For Motion Picture Screens.
Claims use since July 15, 1952.

Ser. No. 635,209. Imperial World Films, Inc., Chicago, Ill. Filed Sept. 16, 1952.



No claim is made for color, the stippling being for shade purposes only.
For Motion Picture Films Relating to Sporting Events, Educational Subjects, Documentary Matters, Religious Subjects, and General Entertainment.
Claims use since June 1, 1950.

Ser. No. 637,133. Optische Werke C. A. Steinheil Sohne G. m. b. H., Munich, Germany. Filed Oct. 24, 1952.

CASCA

Applicant claims ownership of German Registration No. 600,948, dated Aug. 30, 1950.
For Photographic Cameras.
Claims use since Sept. 25, 1947; and since Oct. 16, 1948, in commerce between foreign nations and the United States.

Ser. No. 637,146. Optische Werke C. A. Steinheil Sohne G. m. b. H., Munich, Germany. Filed Oct. 24, 1952. (Sec. 2f.)

STEINHEIL

For Photographic and Other Objectives, Oculars, Telescopes, Field Glasses, Photographic Cameras, Spectrographs, Optical Lenses for Television, Projectors and Optical Vitreous Goods—Namely, Lenses and Objectives, Coated With Interference Layers for the Purpose of Diminishing or Increasing Reflections From the Surfaces Thereof, and for the Purpose of Filtering or Transmitting Heat.

Claims use since 1855; and since 1884 in commerce between foreign nations and the United States.

Ser. No. 640,630. Harlequin Corporation, New York, N. Y. Filed Jan. 12, 1953.

HARLEQUEEN

For Spectacles and Parts Thereof.
Claims use since July 11, 1952.

Ser. No. 640,706. Robert L. Sjostrom, doing business as Sjostrom Machine Company, Lawrence, Mass. Filed Dec. 17, 1952.

PROJECTINA

For Combination Thread Counting and Cloth Examining Machines.
Claims use since Nov. 1, 1952.

Ser. No. 641,492. Bay State Optical Company, Westbury, N. Y. Filed Jan. 29, 1953.

Heiress

For Ophthalmic Frames and Mountings.
Claims use since Oct. 17, 1950.

Ser. No. 641,627. Hew B. McMurdo, San Francisco, Calif. Filed Feb. 2, 1953.

HED-RITE

For Golfers' Goggles.
Claims use since on or about Sept. 8, 1941.

Ser. No. 642,027. Fairbridge Co. Incorporated, Bridgeport, Conn. Filed Feb. 10, 1953.

HI-BRITE

The word "Brite" is disclaimed apart from the mark as shown.

For Magnifying Lens Attachments for Incandescent Electric Bulbs.
Claims use since May 10, 1951.

Ser. No. 642,084. Arch Oboler, Hollywood, Calif. Filed Feb. 11, 1953.

MAGIC-VUERS

No claim is made to the word "Vuers" apart from the mark as shown.

For Polarising Lenses and Eyeglasses.
Claims use since Feb. 2, 1953.

Ser. No. 642,931. Bellco Glass, Inc., Vineland, N. J. Filed Mar. 2, 1953.



For Laboratory and Scientific Glassware—Namely, Pipettes, Burrettes, Weighing Bottles, Graduated Cylinders, Centrifuge Tubes, Nessler Tubes, Folin Sugar Tubes, Folin Digestion Tubes, and Rothberg-Evans Blood Sugar Tubes.
Claims use since March 1942.

Ser. No. 643,040. Lugene, Inc., New York, N. Y. Filed Mar. 3, 1953.

ADJUSTERULE

For Rules for Alignment of Spectacles.
Claims use since Jan. 26, 1953.

Ser. No. 643,573. Universal Pictures Company, Inc., New York, N. Y. Filed Mar. 12, 1953.

UNIVISION

For Series of Stereoscopic Motion Picture Films, Creating an Illusion of Three Dimensions, Synchronized With a Stereophonic-Type Sound.
Claims use since Jan. 13, 1953.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 623,588. Felix K. Bogan, Plantsville, Conn. Filed Jan. 15, 1952.



The word "Get" and the expression "You'll Be Proud of It" are disclaimed apart from the mark as shown.

For Rubber Sponge-Floor Mops With Squeese Drying Attachments.
Claims use since Nov. 26, 1951.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 641,194. Marco Refrigerators Limited, London, England. Filed Jan. 23, 1953.

SERVISEAL

Applicant claims ownership of British Registrations Nos. 708,123 and 708,124, dated June 16, 1952.

For Condensing Units and Compressors for Refrigerators.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 633,792. Smokador Manufacturing Co., Inc., Bloomfield, N. J. Filed Aug. 12, 1952.

SWINGADOR

For Smoking Stands.
Claims use since July 1, 1952.

Ser. No. 638,602. New York Feather Co. Inc., New York and Brooklyn, N. Y. Filed Nov. 25, 1952.

Serenade

Applicant claims ownership of Registration No. 510,120.

For Pillows, Cushions, Throw Pillows, and Foam Rubber Mattress Topper Pads.
Claims use since Dec. 24, 1947.

Ser. No. 640,570. Laminated Veneers Co., Richmond Hill, N. Y. Filed Jan. 9, 1953.

lami-lok

Applicant disclaims the word "Lok" apart from the mark as shown.

For Table Tops.
Claims use since Nov. 19, 1952.

Ser. No. 641,334. Sealy, Incorporated, Chicago, Ill. Filed Jan. 26, 1953.

POSTURE - FOAM

The word "Foam" is disclaimed.
For Mattresses and Box Springs.
Claims use since Jan. 1, 1953.

Ser. No. 641,335. Sealy, Incorporated, Chicago, Ill. Filed Jan. 26, 1953.

POSTURE - FORM

For Mattresses and Box Springs.
Claims use since Jan. 1, 1953.

Ser. No. 642,178. Sun Outdoor Products Company, Incorporated, Little Ferry, N. J. Filed Feb. 12, 1953.

AUTO-CLOSE

No registration rights are claimed for the word "Close" apart from the mark shown in the drawing, and applicant waives none of its common-law rights therein.

For Beach and Garden Umbrellas.
Claims use since Feb. 2, 1953.

Ser. No. 642,179. Sun Outdoor Products Company, Incorporated, Little Ferry, N. J. Filed Feb. 12, 1953.

AUTO-LIFT

No registration rights are claimed for the word "Lift" apart from the mark shown in the drawing, and applicant waives none of its common-law rights therein.

For Beach and Garden Umbrellas.
Claims use since Feb. 2, 1953.

Ser. No. 642,462. The Columbus Show Case Company, Columbus, Ohio. Filed Feb. 19, 1953. (Sec. 2f as to "Columbus.")

COLUMBUS TILT-SERVE

No claim is made to the word "Tilt" apart from the mark as shown. Applicant claims ownership of Registration No. 510,052.

For Show and Display Cases Having Movable Merchandise-Supporting Shelves.
Claims use since September 1948 as to the mark shown; and since 1895 as to the mark "Columbus."

Ser. No. 642,822. The Lane Company, Inc., Altavista, Va. Filed Feb. 26, 1953.



Applicant claims ownership of Registration No. 341,498.

For Cedar Wardrobes, Cedar Chifforobes, Cedar Closets, Cedar Chests, and Tables.
Claims use since May 21, 1923.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 602,262. Hook & Acherman, Inc., Philadelphia, Pa. Filed Aug. 16, 1950. (Sec. 2f.)

H & A

For Gas Fired Boilers, Conversion Burners, and Unit Heaters.
Claims use since January 1937.

Ser. No. 632,750. Sears, Roebuck and Co., Chicago, Ill. Filed July 18, 1952.

Mira-cold

Applicant disclaims the word "Cold" apart from the mark as shown. Applicant claims ownership of Registration No. 295,588.

For Air Conditioners Employing Mechanical Refrigeration Mechanism.

Claims use since on or about Jan. 31, 1952.

Ser. No. 634,505. York-Shipley, Inc., York, Pa. Filed Aug. 26, 1952.



No claim is made herein to that part of the mark consisting of the word "York," or consisting of the word "Base-Heat," apart from the mark as shown. Applicant claims ownership of Registrations Nos. 396,036 and 399,838.

For Oil or Gas Burning Air Conditioning Systems and Parts Thereof—Namely, Air-Conducting Boots, Plenums, and Ducts, Air Cooling Units, and Air-Distributing Baseboard Grilles.

Claims use since June 21, 1952.

Ser. No. 636,980. Harper-Wyman Company, Chicago, Ill. Filed Oct. 22, 1952.

ALLTROL

Applicant claims ownership of Registrations Nos. 505,686 and 505,934.

For Gas Valves for Gas Stove and Gas Range Burners.

Claims use since Oct. 7, 1952, as to the mark shown; and since 1947 in different form.

Ser. No. 640,958. Pennant Corporation, Grand Rapids, Mich. Filed Jan. 19, 1953.



For Duct Outlet Fixtures.

Claims use since Dec. 4, 1952.

Ser. No. 643,562. Spiegel, Inc., Chicago, Ill. Filed Mar. 12, 1953.

Homestead

Applicant claims ownership of Registrations Nos. 421,853, 543,061, and 568,250.

For Oil Heaters.

Claims use since on or about July 1, 1951.

Ser. No. 643,707. Peerless Furnace and Foundry, Inc., Indianapolis, Ind. Filed Mar. 16, 1953.

VERSAT-ALL

For Hot Air Furnaces, and Burners Therefor.

Claims use since Jan. 2, 1953.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 568,091. Wicks Organ Company, Highland, Ill. Filed Oct. 15, 1948. (Sec. 2f.)

DIRECT-ELECTRIC

No exclusive claim is made to the word "Electric" apart from the mark as shown. Applicant claims ownership of Registration No. 214,726.

For Pipe Organs.

Claims use since September 1916.

Ser. No. 611,574. Les Disques de France, Paris, France. Filed Mar. 20, 1951.

FESTIVAL

Applicant claims ownership of French Registration No. 396,804, dated Sept. 28, 1949.

For Grooved Phonograph Records.

Ser. No. 629,283. Cabral-Duncan-Jones, Providence, R. I. Filed May 7, 1952.

FÁTIMA

For Religious Grooved Phonograph Records.

Claims use since Mar. 26, 1952.

Ser. No. 632,438. Pancordion, Inc., New York, N. Y. Filed July 11, 1952.

Bellaira

For Musical Instruments—Namely, Accordions.

Claims use since Mar. 12, 1952.

Ser. No. 638,561. M. Hohner, Inc., New York, N. Y. Filed Nov. 25, 1952.

COMET

For Harmonicas.

Claims use since Nov. 7, 1952.

CLASS 37

PAPER AND STATIONERY

Ser. No. 582,295. The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio. Filed July 21, 1949. (Sec. 2f as to "Goodrich.")



The name "Goodrich" is the proper name of one of the founders of applicant's business. Applicant claims ownership of Registrations Nos. 64,996, 65,422, and others.

For Stationers' Bands Made of Rubber or Rubbery Resilient Material.

Claims use since November 1946 as to the mark shown; and since 1889 as to the name "Goodrich."

Ser. No. 626,569. Edward Hugetz, New York, N. Y. Filed Mar. 17, 1952.

Victor

Applicant claims ownership of Registration No. 115,967.

For Fountain, Stylographic, Ball Point, and Other Mechanical Pens; Mechanical Pencils; Nibs, Clips, and Ball Point Cartridges.

Claims use since about May 1, 1916.

Ser. No. 626,819. Packaging Materials Corp., Providence, R. I. Filed Mar. 21, 1952.

PILLO-WRAP

No claim is made to the word "Wrap" alone. Applicant claims ownership of Registration No. 566,542.

For Corrugated Paper Board.

Claims use since Feb. 7, 1952.

Ser. No. 637,995. Kaeser & Blair, Incorporated, Cincinnati, Ohio. Filed Nov. 13, 1952.

MINUTE MAN BOND
1776

Applicant disclaims the word "Bond."

For Bond Papers.

Claims use since Oct. 29, 1952.

Ser. No. 643,782. The Parker Pen Company, Janesville, Wis. Filed Mar. 17, 1953.

41

For Fountain Pens, Mechanical Pencils, and Pen and Pencil Desk Sets.

Claims use since Mar. 9, 1953.

Ser. No. 643,785. The Parker Pen Company, Janesville, Wis. Filed Mar. 17, 1953.

81

For Fountain Pens, Mechanical Pencils, and Pen and Pencil Desk Sets.

Claims use since Mar. 9, 1953.

Ser. No. 643,793. Scripto, Inc., Atlanta, Ga. Filed Mar. 17, 1953.

CRYSTALLOY

For Ball Point Pens.

Claims use since Feb. 24, 1953.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 634,153. Modern Displays, Detroit, Mich. Filed Aug. 19, 1952.

VIS-A-NAME

The word "Name" is disclaimed apart from the mark as shown.

For Printed Decalcomanias Used as a Protective Covering for Gummed Paper Strips Displaying Identification Symbols.

Claims use since July 1, 1951.

Ser. No. 635,433. The Post Printing and Publishing Company, Denver, Colo. Filed Sept. 18, 1952.

THE DENVER POST

The word "Denver" is disclaimed, apart from the mark as shown.

For Daily Newspaper.

Claims use since Jan. 1, 1901.

Ser. No. 638,770. The Howard Company, Inc., Indianapolis, Ind. Filed Nov. 29, 1952.



The words "Facts" and "Replacement Data Service" are disclaimed apart from the mark as shown.

For Technical Manuals and Replacement Sheets Therefor, Issued From Time to Time.

Claims use since Jan. 11, 1952.

Ser. No. 642,489. Robert M. Poe, doing business as E. Holley Poe Associates, Stamford, Conn. Filed Feb. 19, 1953.

POESCRIPTS

For Periodical Publications of Abstracts of Articles From Current Periodicals, Technical Society Publications, and Pamphlets.
Claims use since Aug. 15, 1949.

Ser. No. 643,431. The McNaught Syndicate, Inc., New York, N. Y. Filed Mar. 10, 1953.

Your Guiding Star

For Daily and Sunday Newspaper Feature.
Claims use since Jan. 3, 1953.

Ser. No. 645,234. Dell Publishing Company, Inc., New York, N. Y. Filed Apr. 14, 1953. (Sec. 2f.)

COOK BOOK

Applicant claims ownership of Registration No. 540,226.
For Magazine Published Periodically.
Claims use since Mar. 12, 1948.

CLASS 39

CLOTHING

Ser. No. 645,690. Beaumart Co., New York, N. Y. Filed Apr. 22, 1953.

BEAUMAKER

For Ladies' and Misses' Dresses.
Claims use since Apr. 14, 1952.

Ser. No. 645,805. Jet Knitting Mills, Inc., Brooklyn, N. Y. Filed Apr. 23, 1953.

Jif-Hat

For Bandeaux, and Hair Nets.
Claims use since on or about Feb. 4, 1952.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 601,018. Burlington Mills Corporation, Greensboro, N. C. Filed July 21, 1950.

Counteraide

Applicant claims ownership of Registration No. 348,393.
For Textile Ribbons Made of Synthetic or Natural Fibers or Combinations Thereof.
Claims use since July 11, 1950.

Ser. No. 621,456. Eagle Clothes, Inc., New York, N. Y. Filed Nov. 20, 1951.

TERRAPIN

For Piece Goods of Wool and Synthetic Fibers.
Claims use since Oct. 23, 1951.

Ser. No. 628,714. Raybestos-Manhattan, Inc., Passaic, N. J. Filed Apr. 25, 1952.

Glassbestos

Applicant claims ownership of Registrations Nos. 365,073 and 402,345.
For Light Weight Open Weave Cloth Made From a Combination of Asbestos and Glass Yarns.
Claims use since Jan. 18, 1946.

Ser. No. 631,495. Roll-O-Graphic Corporation, New York, N. Y. Filed June 20, 1952.

TRI MOL

For Molleton Fabrics of Cotton and Synthetic Fibres, Sold in Bolts, Rolls, and by the Yard, Made Especially for Use With Lithographic Rolls.
Claims use since April 1951.

Ser. No. 637,561. AaBe Wollenstoffen- en Wollendekenfabrieken N. V., Tilburg, Netherlands. Filed Nov. 4, 1952.

AaBe

Applicant claims ownership of Dutch Registration No. 61,289, dated Apr. 27, 1931.
For Woollen Blankets, Including Plaids and Travelling Rugs.

Ser. No. 637,562. AaBe Wollenstoffen en Wollendekenfabrieken N. V., Tilburg, Netherlands. Filed Nov. 4, 1952.



The drawing is lined for the colors blue, red, brown, and yellow. The representation of the persons shown on the drawing is fanciful. The wording "Woolen Blankets Prevent Rheumatism, 100% Wool" and the representation of the goods apart from the mark as shown on the drawing are disclaimed. Applicant claims ownership of Dutch Registration No. 106,868, dated Nov. 20, 1950.
For Woollen Blankets, Including Plaids and Travelling Rugs.

Ser. No. 640,667. Charles Bloom Inc., New York, N. Y. Filed Jan. 13, 1953.



The word "Fabrics" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 296,060 and 507,146.
For Fabrics in the Piece Made of Cotton, Silk, Wool, and Synthetic Fibres and Mixtures Thereof.
Claims use since Sept. 1, 1952.

Ser. No. 645,132. Forstmann Woolen Co., Passaic, N. J. Filed Apr. 13, 1953.

KASHMUTARA

Applicant claims ownership of Registration No. 284,787.
For Woolen Piece Goods.
Claims use since Apr. 8, 1953.

Ser. No. 645,360. Dan River Mills, Incorporated, Danville, Va. Filed Apr. 15, 1953.

PLAYHOUSE PLAIDS

Applicant hereby disclaims the word "Plaids" apart from the mark as shown on the drawing.
For Textile Fabrics in the Piece of Cotton and Synthetic Fibers.
Claims use since Feb. 11, 1953.

CLASS 43

THREAD AND YARN

Ser. No. 634,510. Societe Rhodiaceta, Paris, France. Filed Aug. 13, 1952.

NYLFRANCE

Applicant claims ownership of French Registration No. 418,049, dated Feb. 19, 1952.
For Single Threads and Threads Woven Into Strands, of Natural and Synthetic Fibers, for Use in Producing Woven Fabrics.

Ser. No. 638,134. The Chemstrand Corporation, Decatur, Ala. Filed Nov. 15, 1952.

A

Applicant claims ownership of Registration No. 545,734.
For Yarns, Threads, and Yarn and Thread Filaments.
Claims use since Nov. 11, 1952.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 605,297. George B. Coggins, Asheville, N. C. Filed Oct. 23, 1950.

Nu-Yu

For Disposable Apertured Facial Masks of Fabric-Covered, Laminated Cellulosic Materials for Use in Soaking the Face With Warm Water or the Like.
Claims use since Mar. 8, 1950.

Ser. No. 633,112. Madison Products Company, Toledo, Ohio. Filed July 26, 1952.

SUNNIES

For Opaque Eye Shields.
Claims use since Apr. 14, 1947.

Ser. No. 633,224. Nat P. Steckler, doing business under the name and style of E-Z Products, New York, N. Y. Filed July 29, 1952.

AQUAPRUF

For Ear Drum Protectors for Therapeutic Purposes, and Athletic Supporters.
Claims use since Sept. 25, 1935.

Ser. No. 633,485. Jayne Bryant, Chicago, Ill. Filed Aug. 5, 1952.

Jayne Bryant

For Restraining Blankets or Sheets for Restraining Patients During Therapeutic Treatment.
Claims use since Sept. 4, 1951.

Ser. No. 634,019. Rajowalt Company, Warsaw, Ind. Filed Aug. 2, 1952.

Rajowalt

For Fracture and Surgical Appliances—Namely, Splints, Cushioned Walking Heels, Stainless Steel Nails and Screws, and Traction and Extension Apparatus.
Claims use since July 7, 1946.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 598,546. Presto Beverage Corporation, Brooklyn, N. Y. Filed June 3, 1950.

PRESTO

For Fruit Flavored Bases for Making Soft Drinks.
Claims use since October 1949.

Ser. No. 633,857. Nedick's, Inc., New York, N. Y. Filed Aug. 13, 1952.



Applicant disclaims the wording "Old Fashioned Lemonade Concentrate" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 107,900, 342,017, and others.
For Lemonade Concentrate Consisting of a Concentrated Mixture of Lemon Juice, Natural Lemon Oil, and Sugar.
Claims use since Feb. 20, 1952.

Ser. No. 639,144. Rotella Beverages, Inc., Newark, N. J., assignor to Slim-Line, Inc., Newark, N. J., a corporation of New Jersey. Filed Dec. 6, 1952.

Slim-Line

The word "Lime" shown in the mark is disclaimed apart therefrom.
For Non-Alcoholic Maltless Soft Drinks and Carbonated Waters.
Claims use since Aug. 15, 1952.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 616,857. J. Lyons & Co. Ltd. Inc., Baltimore, Md., and Jersey City, N. J. Filed July 24, 1951. (Sec. 2f as to "Rich's.")



All wording on the drawing except "Rich's" is disclaimed. The background of the trade-mark herein applied for is yellow, but it is not feasible to line the drawing in order to indicate that color. Applicant claims ownership of Registrations Nos. 212,979 and 212,980.
For Cartons of Crystallized Ginger Composed of Ginger, Sugar, and Water, Sold for Food Purposes.
Claims use since 1887.

Ser. No. 624,036. The Larsen Company, Green Bay, Wis. Filed Jan. 24, 1952. (Sec. 2f.)

Freshlike

For Canned Vegetables.
Claims use since May 9, 1934.

Ser. No. 627,841. Rothman Pickle Products, Inc., Jamaica, N. Y. Filed Apr. 9, 1952.

Katie's

For Pickles and Sauerkraut.
Claims use since Mar. 12, 1951.

Ser. No. 630,001. Foremost Dairies, Inc., Jacksonville, Fla. Filed May 21, 1952.



Applicant claims ownership of Registrations Nos. 360,949 and 274,581.
For Fresh Milk, Including Also Homogenized Vitamin-D Fresh Milk, Buttermilk, Sour Cream, Chocolate Milk, Light and Heavy Cream, Butter, Cottage Cheese, Ice Cream, Sherbets and Frozen Custards, Ice Cream Products—Namely, Bars, Sandwiches, and Cones; Frozen Confections on a Stick—Namely, Chocolate Covered Ice Cream, Sherbets, and Custards; Dry Whole Milk Solids and Dry Non-Fat Milk Solids; Oleomargarine; Peanut Butter, Mayonnaise; Jellies and Jams; Canned Frozen Orange Juice Concentrate; and Yogurt.
Claims use since April 1929.

Ser. No. 631,986. Foremost Dairies, Inc., Jacksonville, Fla. Filed June 30, 1952.

FOREMOST

Applicant claims ownership of Registrations Nos. 301,356 and 360,949.
For Fresh Milk Including Also Homogenized Vitamin-D Fresh Milk, Buttermilk, Sour Cream, Chocolate Milk, Light and Heavy Cream, Butter, Cottage Cheese, Ice Cream and Ice Cream Products—Namely, Bars, Sandwiches, Cones, and Cake Roll; Frozen Confections on a Stick—Namely, Chocolate Covered Ice Cream, Sherbets, and Custards; Dry Whole Milk Solids and Dry Non-Fat Milk Solids; Oleomargarine; Peanut Butter, Mayonnaise; Jellies and Jams; Canned Frozen Orange Juice Concentrate; and Yogurt.
Claims use since April 1929.

Ser. No. 643,543. Flavor Corporation of America, Chicago, Ill. Filed Mar. 12, 1953.

NEUTONE

For Liquid Concentrate of Flavoring Materials for Use in the Manufacture of Food Flavoring Extracts, Compounds, Concentrates, and Syrups.
Claims use since Feb. 26, 1953.

Ser. No. 643,659. Cottage Products, Incorporated, New York, N. Y. Filed Mar. 16, 1953.

COTTAGE

Applicant claims ownership of Registrations Nos. 270,735 and 536,920.
For Partially Baked Frozen Waffles Required To Be Toasted or Broiled Before Serving.
Claims use since Aug. 29, 1952.

Ser. No. 644,306. International Milling Company, Minneapolis, Minn. Filed Mar. 27, 1953.

CAPTAIN KIDD

Applicant claims ownership of Registration No. 229,764.
For Wheat Flour.
Claims use since June 2, 1925.

Ser. No. 644,306. International Milling Company, Minneapolis, Minn. Filed Mar. 27, 1953.

DEPENDON

Applicant claims ownership of Registration No. 125,057.
For Wheat Flour, Barley Flour, Rye Flour, Cornmeal, Corn Flour, and Rolled Oats.
Claims use since Mar. 26, 1909.

Ser. No. 644,314. International Milling Company, Minneapolis, Minn. Filed Mar. 27, 1953.

PRETTY MAID

Applicant claims ownership of Registration No. 256,748.
For Wheat Flour.
Claims use since Nov. 1, 1928.

Ser. No. 644,317. International Milling Company, Minneapolis, Minn. Filed Mar. 27, 1953.

SPARKLING JEWEL

Applicant claims ownership of Registration No. 424,135.
For Wheat Flour.
Claims use since May 23, 1931.

Ser. No. 644,318. International Milling Company, Minneapolis, Minn. Filed Mar. 27, 1953.

STRONGHOLD

Applicant claims ownership of Registration No. 191,535.
For Wheat Flour.
Claims use since Dec. 13, 1923.

Ser. No. 644,319. International Milling Company, Minneapolis, Minn. Filed Mar. 27, 1953.

TOPMOST

Applicant claims ownership of Registration No. 192,420.
For Wheat Flour.
Claims use since May 28, 1924.

Ser. No. 645,709. M. J. Holloway & Co., Chicago, Ill. Filed Apr. 22, 1953.

I.O.U.

For Candy.
Claims use since in the year 1924.

CLASS 47

WINES

Ser. No. 615,682. A. Bologna & Company, New Orleans, La. Filed June 26, 1951.

Monogram

For Wines.
Claims use since Dec. 9, 1936.

Ser. No. 641,630. National Distillers Products Corporation, New York, N. Y. Filed Feb. 2, 1953. (Sec. 2f.)

BELLOWS

The lining on the drawing is for shading purposes only. Applicant claims ownership of Registrations Nos. 319,166, 342,703, and others.
For Wines.
Claim use since in or about 1850.

Ser. No. 642,942. California Cellars, doing business as Napa & Sonoma Wine Co., Sonoma and San Francisco, Calif. Filed Mar. 2, 1953.

CASTLER

Applicant claims ownership of Registrations Nos. 395,554 and 570,112.
For Wines.
Claims use since June 1, 1949.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 633,311. Los Angeles Brewing Company, Los Angeles, Calif. Filed July 31, 1952.



Applicant claims ownership of Registrations Nos. 77,932, 261,001, and others.
For Beer.
Claims use since Mar. 24, 1952.

Ser. No. 641,621. G. Krueger Brewing Company, Newark, N. J. Filed Feb. 2, 1953. (Sec. 2f as to "Krueger.")



The stippling shown on the drawing is for shading purposes only. Applicant claims ownership of Registrations Nos. 323,590, 355,866, and 333,508.
For Beer and Ale.
Claims use since Oct. 30, 1952, as to the mark shown; and since 1858 as to the mark "Krueger."

Ser. No. 642,522. The Buckeye Brewing Co., Toledo, Ohio. Filed Feb. 20, 1953.



The figure in the mark is fanciful, and the mark is lined for green and gold. The words "Sparkling Dry Ale" are disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 335,012, 336,369, and others.
For Ale.
Claims use since Feb. 25, 1952.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 607,896. Joseph S. Finch and Company, also doing business as The Gibson Distilling Company, New York, N. Y. Filed Dec. 20, 1950.

DIAMOND 12 TWELVE

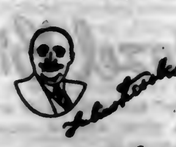
Applicant claims ownership of Registration No. 320,010.
For Whiskey.
Claims use since Aug. 30, 1950.

Ser. No. 617,715. Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier Fils Aine et Cie), Paris, France. Filed Aug. 15, 1951. (Sec. 2f.)



The name "E. Cusenier" and the facsimile signature on the drawing are those of the founder of applicant's business. All wording except "Cusenier" and "Freezomint" is disclaimed. Applicant claims ownership of Registrations Nos. 62,200, 62,370, and others.
For Alcoholic Liqueurs—Namely, Creme de Menthe.
Claims use since 1911 in France; and first used in commerce between France and the United States in 1920.

Ser. No. 621,562. Julius Kessler Distilling Co., Inc., Lawrenceburg, Ind. Filed Nov. 23, 1951. (Sec. 2f.)



KESSLER'S

The trade-mark consists of a portrait of the late Julius Kessler, former president and director of applicant, a facsimile of his signature, and the word "Kessler's," the use of which were authorized by the late Julius Kessler. Applicant claims ownership of Registration No. 372,573.
For Alcoholic Beverages—Namely, Whiskey.
Claims use since Aug. 10, 1935.

Ser. No. 622,156. Highspire Distillers Corporation, Philadelphia, Pa., assignor to Renfield Importers, Limited, Newark, N. J., a corporation of New Jersey. Filed Dec. 6, 1951.

HIGHSPIRE

For Whiskey.
Claims use since Nov. 21, 1951.

Ser. No. 640,130. Robertson and Baxter, Limited, Glasgow, Scotland. Filed Dec. 29, 1952.



All wording shown upon the drawing is disclaimed apart from the mark as shown. Applicant claims ownership of British Registration No. 22,381, dated May 8, 1880; and United States Registration No. 304,330.
For Whisky.

Ser. No. 641,631. National Distillers Products Corporation, New York, N. Y. Filed Feb. 2, 1953. (Sec. 2f.)

BELLOWS

The lining on the drawing is for shading purposes only. Applicant claims ownership of Registrations Nos. 319,166, 342,703, and others.
For Whiskey, Gin, and Brandy.
Claims use since in or about 1850.

Ser. No. 642,411. Laird & Company, doing business as Diamond State Distilling Company, Scobeyville, N. J. Filed Feb. 18, 1953.

OLD CATSKILL

No registration rights are claimed for the word "Old" apart from the mark shown.
For Apple Brandy.
Claims use since June 1, 1937.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 610,025. The Pure Oil Company, Chicago, Ill. Filed Feb. 13, 1951.

Pure-sure

For Automobile Seat Cover Installation Kit Containing a Pair of Hog Ring Pliers, Seat Cover Pins, Hog Ring Fasteners, and Cut Tacks.
Claims use since June 1944.

Ser. No. 623,883. Ralph E. Grossman, doing business as Picture Craft Company, Decatur, Ill. Filed Jan. 22, 1952.

Ro-Lex

For Artist's Canvases.
Claims use since June 7, 1948.

Ser. No. 635,101. Herbert Schmiege, Saginaw, Mich. Filed Sept. 10, 1952.

W
CAR
Y

The above-named applicant does not make claim to an exclusive appropriation of the word "Car" except in the precise relation and association in which it appears in the drawing.
For Portable Collapsible Tent Adapted To Fit on the Roof of an Automobile.
Claims use since July 15, 1949.

Ser. No. 636,148. Rack Engineering Company, Connellsville, Pa. Filed Oct. 3, 1952.

'STOCKTAINER'

For Pallet Boxes Having Supporting Legs Used in Material Handling Operations.
Claims use since Mar. 31, 1952.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 622,811. Helene Curtis Industries, Inc., Chicago, Ill. Filed Dec. 26, 1951.

Stardust

For Colored Glass Particles To Be Sprayed on a Hair-Do or on the Hair To Give a Sequin Effect to the Hair.
Claims use since Nov. 30, 1951.

Ser. No. 624,041. Lucky Strike Perfumeries Corporation, New York, N. Y. Filed Jan. 24, 1952.

MISS LVCKY

The mark is fictitious. Applicant claims ownership of Registrations Nos. 515,581, 528,983, and 551,628.
For Beauty Cream for the Hands, Brilliantine, Dusting Powder, Eau de Cologne, Face Cream, Face Milk, Face Powder, Hair Dressing, and Perfume.
Claims use since Aug. 9, 1949.

Ser. No. 624,050. Park Avenue Perfumers Associates, Detroit, Mich. Filed Jan. 24, 1952.



The background against which the trade-mark appears is gold, but no claim is made to color.
For Perfume.
Claims use since Dec. 27, 1951.

Ser. No. 625,205. Jessop Products, Inc., New York, N. Y. Filed Feb. 19, 1952.

Yúth

Applicant claims ownership of Registration No. 247,780.
For Hair Tonic, After Shave Lotion, Estrogenic Hormone Cream, and Toilet Water.
Claims use since June 1943.

Ser. No. 627,042. Hazel Bishop Inc., New York, N. Y. Filed Mar. 26, 1952.

Hazel Bishop

"Hazel Bishop" is the name of a particular living individual who has given written consent to the use of her name as the trade-mark.
For Lipsticks and Liquid Creme Rouge.
Claims use since Dec. 29, 1949.

Ser. No. 628,776. Raimondo Peria, Rome, Italy. Filed Apr. 26, 1952.

ACQUA  DI ROMA

Applicant disclaims the words "Acqua di Roma" apart from the mark as shown. Applicant claims ownership of Italian filing N. 28/299, Serial No. 688, dated Feb. 20, 1952.
For Dye for Hair and Beard.

Ser. No. 630,923. Contress, Inc., New York, N. Y. Filed June 9, 1952.

Contress

For Hair Coloring Powder.
Claims use since on or about Apr. 1, 1952.

Ser. No. 633,070. Mil-Hi Laboratories, Inc., New York, N. Y. Filed July 25, 1952.

HelenWard

"Helen Ward" is the name of a particular living individual whose written consent to the right to use and register her name as a trade-mark is filed with this application.
For Nail Polish and Lipstick.
Claims use since Mar. 1, 1952.

Ser. No. 636,059. Beauty Counselors, Inc., Grosse Pointe, Mich. Filed Oct. 2, 1952.

BEAUTY COUNSELOR

Applicant claims ownership of Registrations Nos. 386,217 and 297,197.
For Nail Polish, Nail Polish Remover, Cuticle Cleanser, Cuticle Lubricator, Perspiration Cream and Deodorant, Hair Rinse, Hair Oil, Perfume, Cologne, and Toilet Water.
Claims use since Feb. 1, 1935.

Ser. No. 643,609. Pond's Extract Company, New York, N. Y., and elsewhere. Filed Mar. 13, 1953. (Sec. 2f as to "Pond's.")

POND'S
VANISHING CREAM
Crema Base para Polvos

No claim is made to the words "Vanishing Cream" or "Crema Base para Polvos" apart from the mark shown.

The drawing is lined for red, but applicant does not limit itself to said color. Applicant claims ownership of Registrations Nos. 180,503, 215,081, and others.
For Toilet and Cosmetic Product—Namely, Vanishing Cream.
Claims use since in or about July 1942 on the mark as shown; and since in or about 1846 as to "Pond's."

Ser. No. 643,610. Pond's Extract Company, New York, N. Y., and elsewhere. Filed Mar. 13, 1953. (Sec. 2f as to "Pond's.")

POND'S
COLD CREAM
Crema Limpiadora

No claim is made herein to the words "Cold Cream" or "Crema Limpiadora" apart from the mark shown in the drawing. The letter "C" in the drawing is lined to indicate that it is printed solid in red, but applicant does not limit itself to said color. Applicant claims ownership of Registrations Nos. 180,511, 215,081, and others.
For Toilet and Cosmetic Product—Namely, Cold Cream.
Claims use since in or about July 1942 as to the mark shown; and since in or about the year 1846 as to the word "Pond's."

Ser. No. 643,747. Grant Wilkins, doing business as Norfleet Products, Atlanta, Ga. Filed Mar. 16, 1953.

norfleet

For Toilet Preparations—Namely, a Dandruff Remover.
Claims use since Dec. 22, 1952.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 626,799. Lewal Industries, Inc., New York, N. Y. Filed Mar. 21, 1952. (Sec. 2f.)

INSTANT-DIP
MAGIC

For Silver Cleaning Preparation in Liquid Form.
Claims use since Jan. 15, 1952.

Ser. No. 642,584. The J. R. Watkins Company, Winona, Minn. Filed Feb. 20, 1953.

Jean Wade

The name "Jean Wade" is fanciful. Applicant claims ownership of Registration No. 304,690.
For Shampoo.
Claims use since Feb. 16, 1932.

Ser. No. 643,002. The Steri-Wite Corporation, New York, N. Y. Filed Mar. 2, 1953.

STERI-DIPE

For Sanitizing Detergent.
Claims use since Feb. 9, 1953.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 529,749. Consolidated Cosmetics, Chicago, Ill., assignor, by mesne assignments, to Les Parfums de Dana, Inc., New York, N. Y., a corporation of New York. Filed July 28, 1947.

TABU

For Beauty Shop Services—Namely, Hair Styling, Hair Cutting, Hair Coloring, Permanent Waving, Manicuring, Facial Treatments, Weight Reducing Treatments, Skin Therapy, and Skin Treatments.
Claims use since May 1, 1942.

Ser. No. 585,108. Diebold, Incorporated, Canton, Ohio. Filed Sept. 21, 1949. (Classified in Class 103.)
Applicant claims ownership of Registration No. 519,498.
See this serial number in Class 103 for goods and mark.
Claims use since Dec. 7, 1947.

Ser. No. 618,065. Tourinns, Incorporated, New York, N. Y. Filed Aug. 24, 1951.



For Lodgings for Guests in Motor Courts.
Claims use since Aug. 3, 1950.

Ser. No. 618,066. Tourinns, Incorporated, New York, N. Y. Filed Aug. 24, 1951.



For Lodgings for Guests in Motor Courts.
Claims use since Aug. 3, 1950.

Ser. No. 633,287. The Fraternity of Phi Gamma Delta, Washington, D. C. Filed Aug. 16, 1952. COLLECTIVE MARK.

PHI GAMMA DELTA

Applicant claims ownership of Registrations Nos. 538,303 and 540,113.
For Organizing of Chapters and Alumni Groups in a National Fraternity and Maintaining Membership Therein, and Furthering the Civic and Educational Ideals Thereof.
Claims use since May 1, 1848.

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 596,069. Bourke, Holland & Miller, Inc., New York, N. Y., now by change of name Envoys, Incorporated. Filed Apr. 21, 1950.



The words "In Envelopes" are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 426,369.
For Advertising Services—Namely, Creating, Planning, Writing, and Producing Direct Mail Campaigns, Including Idea, Art Work, Copy.
Claims use since July 15, 1945, on the mark as shown; and since Sept. 7, 1943, on the phrase "Envoys in Envelopes."

Ser. No. 599,925. Baltimore-Washington Childrens Wear Show, Inc., Baltimore, Md. Filed June 29, 1950.



The figures of the children in the drawing are fanciful.
For Advertising the Goods of Others, Which Comprise Children's Wear, Through the Medium of Shows and Exhibitions Promoted Periodically in Different Cities of Different States of the United States.
Claims use since Jan. 1, 1946.

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 635,627. Bank of America National Trust and Savings Association, San Francisco, Calif. Filed Sept. 23, 1952. (Sec. 2f.)

BANK OF AMERICA

Applicant claims ownership of Registration No. 523,812.
For Commercial, Savings, Loans and Trust Department Banking Services.
Claims use since Apr. 30, 1928.

Ser. No. 641,175. Continental Casualty Company, Chicago, Ill. Filed Jan. 23, 1953.

GROUPOMATIC

No claim is made to the exclusive use of the word "Group" alone.
For Underwriting of Group Health and Accident Insurance.
Claims use since Sept. 10, 1952.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 571,293. Nathan Root, doing business as Root & Company, Grand Rapids, Mich. Filed Dec. 29, 1948. (Sec. 2f.)

Lusterway

Applicant claims ownership of Registration No. 431,419.
For Cleaning and Glazing of Furs and Fur Garments.
Claims use since Apr. 24, 1941.

Ser. No. 585,108. Diebold, Incorporated, Canton, Ohio. Filed Sept. 21, 1949.

FLOPRINT

Applicant claims ownership of Registration No. 519,498.
For Making Photographic Prints From Customers' Original Records; Developing and Printing Photographic Films; Renting Photographic Equipment; Maintaining and Repairing Photographic Equipment of Others.
Claims use since Dec. 7, 1947.

Ser. No. 618,549. Morton's Inc., Boston, Mass. Filed Sept. 8, 1951.

mortonizing

For Cleaning of Fur Coats.
Claims use since June 8, 1949.

Ser. No. 641,965. Pipelife, Inc., Odessa, Tex. Filed Feb. 9, 1953.

PIPELIFE

For Cleaning and Painting the Interior of Pipe Lines, Wells, and the Like.
Claims use since Apr. 18, 1951.

CLASS 106

MATERIAL TREATMENT

Ser. No. 571,293. Nathan Root, doing business as Root & Company, Grand Rapids, Mich. Filed Dec. 29, 1948. (Classified in Class 103.) (Sec. 2f.)
Applicant claims ownership of Registration No. 431,419.
See this serial number in Class 103 for goods and mark.
Claims use since Apr. 24, 1941.

Ser. No. 585,108. Diebold, Incorporated, Canton, Ohio. Filed Sept. 21, 1949. (Classified in Class 103.)
Applicant claims ownership of Registration No. 519,498.
See this serial number in Class 103 for goods and mark.
Claims use since Dec. 7, 1947.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1946, PRINCIPAL REGISTER

579,888. Infants', Girls', Pre-Teens', Teens', Women's Slips, Half Slips, Panties, Nightgowns, and Pajamas. Her Majesty Underwear Company, West Columbia, S. C., and New York, N. Y.
Original filed, act of 1905, Oct. 24, 1946; amended to application under act of 1946, Principal Register, Mar. 23, 1953, Serial No. 511,389. Published June 16, 1953. Class 39.

579,889. Flatware of Base Metal—Namely, Knives, Forks, and Spoons. Englishtown Cutlery, Ltd., New York, N. Y.
Original filed, act of 1905, Jan. 6, 1947; amended to application under act of 1946, Principal Register, Mar. 10, 1952, Serial No. 515,300. Published June 2, 1953. Class 23.

579,890. CONSOLIDATED CERTIFICATE. Metals & Controls Corporation and Spencer Thermostat Company, Attleboro, Mass., assignor to Metals & Controls Corporation.
Temperature and Pressure Relief Valves. Filed Jan. 6, 1950, Serial No. 590,450. Published Oct. 31, 1950. Class 13.
Electric Switches. Filed July 5, 1947, Serial No. 527,209. Published Nov. 27, 1951. Class 21.
Thermostatic Controls for Actuating Valves and Electric Switches. Filed July 5, 1947, Serial No. 527,158. Published Nov. 11, 1952. Class 26.

579,891. Floor Enamels, Implement Paint, Screen Paint, Carriage Paint, Varnish Stain, Aluminum Enamel, Gold Enamel, and Protective Floor Wax Coatings. Phelan-Faust Paint Mfg. Co., St. Louis, Mo.
Filed Sept. 4, 1947, Serial No. 533,358. Published June 16, 1953. Class 16.

579,892. Wheat Flour. B. A. Eckhart Milling Co., Chicago, Ill.
Filed Jan. 14, 1948, Serial No. 546,979. Published Oct. 25, 1949. Class 46.

579,893. Cardboard and Corrugated-Board Storage Filing Boxes. Bankers Box Company, Chicago, Ill.
Filed Mar. 26, 1948, Serial No. 553,063. Published Dec. 11, 1951. Class 32.

579,894. Carbon Compounding Material Used Principally as a Filler in Rubber or Synthetic Rubber. Phillips Petroleum Company, Bartlesville, Okla.
Filed Mar. 14, 1949, Serial No. 575,424. Published June 23, 1953. Class 6.

579,895. Women's and Misses' Dresses. Varden Dress, Inc., New York, N. Y.
Filed May 20, 1949, Serial No. 579,240. Published May 2, 1950. Class 39.

579,896. Photographic Projectors for Transparencies and Slides, Mounted or Unmounted. Golde Manufacturing Co., Chicago, Ill.
Filed June 17, 1949, Serial No. 580,658. Published June 16, 1953. Class 26.

579,897. Ammoniated Chewing Gum. Kathryn, Inc., Chicago, Ill.
Filed July 23, 1949, Serial No. 582,436. Published June 16, 1953. Class 46.

579,898. Coffee and Tea. Thomas J. Webb Company, Chicago, Ill.
Filed Aug. 1, 1949, Serial No. 582,808. Published June 23, 1953. Class 46.

579,899. Insulation and Other Wall Board, Batt or Loose Insulation, Etc. Lumber Dealers, Inc., Denver and Pueblo, Colo., and Billings, Mont.
Filed Dec. 1, 1949, Serial No. 588,647. Published June 23, 1953. Class 12.

579,900. Box Containing Earth With a Layer of Seeds on the Top Thereof in Position To Start Growing When Water Is Added. Camden Park Greenhouses, Braham, Minn.
Filed Jan. 3, 1950, Serial No. 590,255. Published June 23, 1953. Class 1.

579,901. Safety Clothing for the Use and Protection of Industrial Workers—Namely, Fabric Gloves and Mitts, Aprons, Pants, Jackets, Protective Sleeves, Overalls, Spats, and Leggings. Peter C. Tainsh, doing business as Seco Safety Products Company, Detroit, Mich.
Filed Jan. 12, 1950, Serial No. 590,765. Published May 20, 1952. Class 39.

579,902. Ready Mixed Paints Sold in Liquid Form, Paint Enamel Sold in Liquid Form, Varnish, Shellac, Wood Stains, Varnish Stains, and Paint and Varnish Remover Sold in Liquid Form. Chicago Paints, Inc., Chicago, Ill.
Filed Feb. 8, 1950, Serial No. 592,124. Published Nov. 27, 1951. Class 16.

579,903. Ready Mixed Paints Sold in Liquid Form, Paint Enamel Sold in Liquid Form, Varnish, Shellac, Wood Stains, Varnish Stains, and Paint and Varnish Remover Sold in Liquid Form. Chicago Paints, Inc., Chicago, Ill.
Filed Feb. 8, 1950, Serial No. 592,125. Published Nov. 27, 1951. Class 16.

579,904. Ready Mixed Paints Sold in Liquid Form, Paint Enamel Sold in Liquid Form, Varnish, Shellac, Wood Stains, Varnish Stains, and Paint and Varnish Remover Sold in Liquid Form. Chicago Paints, Inc., Chicago, Ill.
Filed Feb. 8, 1950, Serial No. 592,126. Published Nov. 27, 1951. Class 16.

579,905. Ready Mixed Paints Sold in Liquid Form, Paint Enamel Sold in Liquid Form, Varnish, Shellac, Wood Stains, Varnish Stains, and Paint and Varnish Remover Sold in Liquid Form. Chicago Paints, Inc., Chicago, Ill.
Filed Feb. 8, 1950, Serial No. 592,127. Published Nov. 27, 1951. Class 16.

579,906. Picture Frames Made of Glass, Wood and Glass, and Composition and Glass; Table Tops; and Glass Ornamental Trimming for Table Tops. Eastern Art Products, Chicago, Ill.
Filed Apr. 28, 1950, Serial No. 596,488. Published June 16, 1953. Class 32.

579,907. Sugar. American Crystal Sugar Company, Denver, Colo.
Filed May 18, 1950, Serial No. 597,647. Published June 23, 1953. Class 46.

579,908. Sugar. American Crystal Sugar Company, Denver, Colo.
Filed May 18, 1950, Serial No. 597,648. Published June 23, 1953. Class 46.

579,909. Sugar. American Crystal Sugar Company, Denver, Colo.
Filed May 18, 1950, Serial No. 597,649. Published June 23, 1953. Class 46.

579,910. Liquid Composition for the Weatherproofing of Fabrics and Leather. Champion Textile Finishing Co., Chicago, Ill.
Filed July 18, 1950, Serial No. 600,814. Published Mar. 25, 1952. Class 6.

579,911. Compound for Polishing Copper, Stainless Steel, Chrome, Brass, and Like Metals. Lusto Company, Inc., Chicago, Ill., assignor to Ekco Products Company, Chicago, Ill., a corporation of Illinois.
Filed Sept. 14, 1950, Serial No. 603,533. Published June 23, 1953. Class 4.

579,912. Brushes for Painting, Varnishing, or Applying Liquids and for Cleansing, Polishing, and Sweeping. Star Brush Manufacturing Co., Inc., Boston, Mass.
Filed Sept. 22, 1950, Serial No. 603,901. Published June 16, 1953. Class 29.

579,913. Vacuum Tube Testing and Inspecting Apparatus and Instruments. Buck Engineering Company, Inc., Freehold, N. J.
Filed Oct. 3, 1950, Serial No. 604,355. Published June 16, 1953. Class 26.

579,914. Breads, Rolls, Pastries, Cookies, Cakes, Pies, Buns, Rusks, and Doughnuts. Vega Baking Company Incorporated, Norwood, Mass.
Filed Oct. 14, 1950, Serial No. 604,939. Published June 23, 1953. Class 46.

579,915. Breads, Cookies, Pastries, Rolls, and Doughnuts. Vega Baking Company Incorporated, Norwood, Mass.
Filed Oct. 14, 1950, Serial No. 604,940. Published June 23, 1953. Class 46.

579,916. Wall Coatings in the Nature of Paint. United States Gypsum Company, Chicago, Ill.
Filed Nov. 28, 1950, Serial No. 607,057. Published June 16, 1953. Class 16.

579,917. Hair Bleaching Powder. Albert Kemp, Boone, N. C.
Filed Jan. 12, 1951, Serial No. 608,708. Published June 9, 1953. Class 51.

579,918. Wieners. J. M. Schneider Limited, Kitchener, Ontario, Canada.
Filed Jan. 19, 1951, Serial No. 609,004. Published Dec. 2, 1952. Class 46.

579,919. Silk Screen Type Printing Machines. Hank Sign & Display Co., Adams, Mass.
Filed Feb. 9, 1951, Serial No. 609,857. Published June 2, 1953. Class 23.

579,920. Unfinished Pressed Steel Stampings, for Use in the Manufacture of Automotive Brake Drums, Etc. Truecon Steel Company, Youngstown, Ohio, assignor to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey.
Filed Mar. 12, 1951, Serial No. 611,203. Published June 16, 1953. Class 14.

579,921. Candy. Almo Candy Co., New York, N. Y.
Filed Mar. 28, 1951, Serial No. 611,874. Published June 23, 1953. Class 46.

579,922. Pneumatically-Operated Punches for Reboring Access Holes in Rock Drilling Bits. Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y.
Filed Mar. 28, 1951, Serial No. 611,899. Published June 2, 1953. Class 23.

579,923. Piece Goods of Linen, Cotton, Silk, Rayon, Nylon, and Mixtures Thereof. Everfast Fabrics, Inc., New York, N. Y.
Filed Apr. 11, 1951, Serial No. 612,490. Published June 16, 1953. Class 42.

579,924. Publications—Namely, Books, Magazines, and Newspaper Columns. Dalton Film Company, Tulsa, Okla.
Filed Apr. 18, 1951, Serial No. 612,808. Published June 23, 1953. Class 38.

579,925. Chemical Liquid Paint Remover. Chasco, Inc., Baltimore, Md.
Filed Apr. 24, 1951, Serial No. 613,049. Published June 23, 1953. Class 52.

579,926. Mattresses and Box Springs. Superior Sleeprite Corporation, Chicago, Ill.
Filed Apr. 30, 1951, Serial No. 613,350. Published June 16, 1953. Class 32.

579,927. Shingles and Doors. Nova Sales Co., Trenton, N. J.
Filed May 9, 1951, Serial No. 613,678. Published June 23, 1953. Class 12.

579,928. Hydraulically Operated Control Unit Comprising Motors, Valves, Switches, and Cylinders for Controlling the Operation of a Flash Welding Machine. Kingsley A. Doutt, Detroit, Mich.
Filed May 10, 1951, Serial No. 613,706. Published June 2, 1953. Class 23.

579,929. Seasoning Composition in Dry Soluble Form Comprising Pepper Extractives Carried on Soluble Edible Crystals Such as Sodium Chloride or Dextrose. The Griffith Laboratories, Inc., Chicago, Ill.
Filed May 12, 1951, Serial No. 613,814. Published June 9, 1953. Class 46.

579,930. Silicone Treated Fabrics for Use in Polishing Glass and Other Smooth Surfaces. Dow Corning Corporation, Midland, Mich.
Filed June 2, 1951, Serial No. 614,654. Published June 16, 1953. Class 29.

579,931. Artists' Highlight White and Wash Black Paints Used in Preparing Art Work for Photomechanical Reproduction. Kemart Corporation, San Francisco, Calif.
Filed Apr. 26 ,1951, Serial No. 615,513. Published June 16, 1953. Class 16.

579,932. Picture, Photograph, and Mirror Frames. Century Industries, Inc., Chicago, Ill.
Filed July 10, 1951, Serial No. 616,278. Published June 16, 1953. Class 32.

579,933. Mattresses. Rose-Derry Company, Newton, Mass.
Filed Aug. 1, 1951, Serial No. 617,213. Published June 16, 1953. Class 32.

579,934. Floor Finish Varnish and Reducer Therefor. The Woodzan Co., Inc., Ridgewood, N. J.
Filed Sept. 5, 1951, Serial No. 618,430. Published June 16, 1953. Class 16.

579,935. Fresh Grapes, Cherries, Peaches, Plums, and Nectarines in Their Natural State. Anthony A. Bianco, Inc., New York, N. Y., and Fresno, Calif.
Filed Sept. 27, 1951, Serial No. 619,290. Published June 23, 1953. Class 46.

579,936. Strippable Protective Coating Composition. Bee Chemical Company, Chicago, Ill.
Filed Sept. 29, 1951, Serial No. 619,378. Published June 16, 1953. Class 16.

579,937. Medical Preparation—Namely, a Palatable Suspension Indicated in Certain Cases of Intestinal Disturbance. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn.
Filed Oct. 8, 1951, Serial No. 619,710. Published July 8, 1952. Class 18.

579,938. Instrument for Removing Foreign Particles From the Eye, Etc. Sam S. Miller, doing business as Ohio First Aid & Pharmacal Company, Cleveland, Ohio.
Filed Oct. 10, 1951, Serial No. 619,842. Published June 23, 1953. Class 44.

579,939. Plastic Coating Sprays for Water Proofing and Preventing Corrosion on Ignition and Electrical Systems of Automobiles. Dupli-Color Products Co., Inc., Chicago, Ill.
Filed Oct. 12, 1951, Serial No. 619,929. Published June 16, 1953. Class 16.

579,940. Face Creams, Face Powders, Body Powders, Talcum Powder, Etc. Hindu Products Mfg. Corp., Chicago, Ill.
Filed Oct. 15, 1951, Serial No. 619,999. Published June 23, 1953. Class 51.

579,941. Hammers and Hatchets. Estwing Manufacturing Company, Incorporated, Rockford, Ill.
Filed Nov. 1, 1951, Serial No. 620,776. Published June 2, 1953. Class 23.

579,942. Synthetic Resinous Particles, Principally for Use as a Rubber Modifier. Heyden Chemical Corporation, New York, N. Y.
Filed Nov. 3, 1951, Serial No. 620,852. Published June 23, 1953. Class 6.

579,943. Cough Syrup. National Package Drugs, Inc., St. Louis, Mo., now by change of name Drugmaster, Inc.
Filed Nov. 8, 1951, Serial No. 621,025. Published June 16, 1953. Class 18.

579,944. Ointment Used on Felons, Burns, Boils, Bruises, Carbuncles, Ulcers, Insect Bites, Cuts, Eczema, Varicose Ulcers, Blood Poisoning, and Abscesses. Reuben Hess, Benton Harbor, Mich.
Filed Nov. 13, 1951, Serial No. 621,148. Published June 16, 1953. Class 18.

579,945. Sewing Machines. I. J. Moritt Corporation, New York, N. Y.
Filed Nov. 15, 1951, Serial No. 621,280. Published June 24, 1952. Class 23.

579,946. Air-Powered Controlled Volume Pump. Milton Roy Company, Philadelphia, Pa.
Filed Nov. 19, 1951, Serial No. 621,423. Published June 16, 1953. Class 26.

579,947. Soaps. The Baker Castor Oil Company, Jersey City, N. J.
Filed Nov. 20, 1951, Serial No. 621,445. Published June 23, 1953. Class 32.

579,948. Fastening Unit To Be Used for Suspending or Furring Plasterboard Base Ceilings, Etc. Detroit Acoustical Contracting Co., Detroit, Mich., assignor to Rollform, Incorporated, Detroit, Mich., a corporation of Michigan.
Filed Nov. 30, 1951, Serial No. 621,870. Published June 23, 1953. Class 12.

579,949. Construction Cement of the Hardened Silicate Type, Etc. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa.
Filed Jan. 5, 1952, Serial No. 623,256. Published June 23, 1953. Class 12.

579,950. Carbon Black Used as an Ingredient of Protective and Decorative Coatings. Godfrey L. Cabot, Inc., Boston, Mass.
Filed Jan. 10, 1952, Serial No. 623,400. Published June 16, 1953. Class 16.

579,951. Steel Bars of All Shapes and Sizes, Blocks, Etc. Firth Sterling, Inc., Pittsburgh, Pa., by change of name from Firth Sterling Steel & Carbide Corporation.
Filed Jan. 22, 1952, Serial No. 623,880. Published June 23, 1953. Class 14.

579,952. Cotton, Rayon, Tinsel, and Cellophane Ribbon and Cord Used for Tying and Ornamenting Packages. National Tinsel Manufacturing Co., Manitowoc, Wis.
Filed Jan. 22, 1952, Serial No. 623,901. Published May 5, 1953. Class 7.

579,953. Metal Die Castings Made to Specifications as to Composition or Form. Blue Ridge Pressure Castings, Inc., Lehighton, Pa.
Filed Dec. 26, 1951, Serial No. 623,932. Published June 16, 1953. Class 14.

579,954. Ready Mixed Colorants for Use in Paints, Enamels, and Similar Coatings. Rockford Paint Manufacturing Co., Rockford, Ill.
Filed Jan. 30, 1952, Serial No. 624,298. Published June 16, 1953. Class 16.

579,955. Ready Mixed Colorants for Use in Paints, Enamels, and Similar Coatings. Rockford Paint Manufacturing Co., Rockford, Ill.
Filed Jan. 30, 1952, Serial No. 624,299. Published June 16, 1953. Class 16.

579,956. Thread Marketed in Bobbin Form. The Heminway & Bartlett Mfg. Co., Watertown, Conn.
Filed Feb. 9, 1952, Serial No. 624,741. Published June 16, 1953. Class 43.

579,957. Titanium Carbon Compositions, and Particularly High Temperature Compositions Formed From Sintered Briquetted Powdered Titanium Carbide and Auxiliary Binding Metals of the Iron Group. Kennametal Inc., Latrobe, Pa.
Filed Feb. 12, 1952, Serial No. 624,836. Published June 23, 1953. Class 14.

579,958. Semi-Finished Castings for Making Automotive Equipment, Engine Parts, Aircraft Parts, Metal Covers, Brackets, Lifting Eyes, and Hinges. Crucible Steel Company of America, New York, N. Y.
Filed Feb. 14, 1952, Serial No. 624,932. Published June 16, 1953. Class 14.

579,959. Comic Strips. News Syndicate Co. Inc., New York, N. Y.
Filed Mar. 5, 1952, Serial No. 625,995. Published June 16, 1953. Class 38.

579,960. Insulating Siding Consisting of Fibrous Insulation Board Coated With Waterproof Material. Mastic Asphalt Corporation, South Bend, Ind.
Filed Mar. 7, 1952, Serial No. 626,095. Published June 23, 1953. Class 12.

579,961. Apparatus for Steam-Treating Clothes Which Removes the Wrinkles Therefrom and May Also Effect a Partial Cleaning Action Thereon. Henry J. Fawcett, Cleveland, Ohio.
Filed Mar. 18, 1952, Serial No. 626,614. Published June 16, 1953. Class 24.

579,962. Solution of Succinonitrile Used by Parenteral Injection for Psychiatric Disorders. E. Fougera & Co., Inc., New York, N. Y.
Filed Mar. 22, 1952, Serial No. 626,870. Published June 16, 1953. Class 18.

579,963. Brochures, Leaflets, Textbooks. Alice Trachtenberg, Zurich, Switzerland.
Priority under Sec. 44(d). Swiss Registration No. 140,718, filed Oct. 12, 1951.
Filed Mar. 21, 1952, Serial No. 626,929. Published June 16, 1953. Class 38.

579,964. Polysaccharide, Glucuronolactone, Sodium Glucuronate, and Potassium Glucuronate. Corn Products Refining Company, New York, N. Y.
Filed Mar. 27, 1952, Serial No. 627,117. Published June 16, 1953. Class 6.

579,965. Back Rests for Seats for Sports Use. Welcraft Products Co., Inc., North Liberty, Ind.
Filed Mar. 27, 1952, Serial No. 627,157. Published June 16, 1953. Class 32.

579,966. Sewing and Darning Machines and Parts Thereof. Brütsch & Co., Zurich, Switzerland.
Filed Apr. 5, 1952, Serial No. 627,622. Published May 19, 1953. Class 23.

579,967. Painting Rollers. A. G. Jacobus' Sons Inc., Verona, N. J.
Filed Apr. 7, 1952, Serial No. 627,686. Published June 23, 1953. Class 29.

579,968. Dairy, Cattle, Stock, Swine, Pigeon, and Horse Feeds; Calf Meal; Poultry Scratch Feeds, Mashes, Pellets, and Crumbles. Northern Milling Company, Wausau, Wis.
Filed Apr. 8, 1952, Serial No. 627,767. Published June 23, 1953. Class 46.

579,969. Bituminous Emulsions and Suspensions Used in Paving Construction, and Pre-Mix Paving Compositions Comprising Mineral Aggregate and Bituminous Binder. Koppers Company, Inc., Pittsburgh, Pa.
Filed Apr. 12, 1952, Serial No. 628,003. Published June 23, 1953. Class 12.

579,970. Combined Table and Chair. Karl M. Jacobs, Fowler, Ind.
Filed Apr. 23, 1952, Serial No. 628,539. Published June 16, 1953. Class 32.

579,971. CONSOLIDATED CERTIFICATE. The Singer Manufacturing Company, Elizabeth, N. J.
Belt Hooks and Cabinet and Furniture Hardware—Namely, Hinges, Brackets, Braces, and Handles. Filed Apr. 23, 1952, Serial No. 628,578. Published Apr. 21, 1953. Class 13.
Electric Motors, Electro-Mechanical Drives, Electric Transmitters, Etc. Filed Apr. 23, 1952, Serial No. 628,579. Published May 19, 1953. Class 21.
Toy Sewing Machines. Filed Apr. 23, 1952, Serial No. 628,580. Published Apr. 7, 1953. Class 22.
Family and Commercial Sewing Machines; Darning, Embroidery, Article Fastening, Hemstitching, Etc. Filed Apr. 23, 1952, Serial No. 628,581. Published May 5, 1953. Class 23.
Locks and Keys. Filed Apr. 23, 1952, Serial No. 628,582. Published June 23, 1953. Class 25.
Cord Belts, Composition Belts, and Power Transmission Belting. Filed Apr. 23, 1952, Serial No. 628,583. Published Sept. 30, 1952. Class 35.

579,972. Asbestos Yarns and Asbestos Thread With a Glass Core. Raybestos-Manhattan, Inc., Passaic, N. J.
Filed Apr. 25, 1952, Serial No. 628,715. Published June 16, 1953. Class 43.

579,973. Metal Castings. Qualcast Limited, Derby, England.
Filed Apr. 29, 1952, Serial No. 628,872. Published June 16, 1953. Class 14.

579,974. Files and Rasps. Nicholson File Company, Providence, R. I.
Filed May 5, 1952, Serial No. 629,213. Published June 2, 1953. Class 23.

579,975. Metal Step Railings and Metal Porch Railings. Logan Co., Louisville, Ky.
Filed May 9, 1952, Serial No. 629,441. Published June 23, 1953. Class 12.

579,976. Woolen Piece Goods for Ladies' Coats. Forstmann Woolen Co., Passaic, N. J.
Filed May 16, 1952, Serial No. 629,789. Published June 23, 1953. Class 42.

579,977. Quilted Mattress Pads and Protectors. National Sure-Fit Quilting Co., Inc., New York, N. Y.
Filed May 21, 1952, Serial No. 630,015. Published June 16, 1953. Class 42.

579,978. Pyrophoric Pocket and Table Lighters, Flints, and Smoking Pipe Cleaners. Bowers Lighter Company, Kalamazoo, Mich.
Filed May 27, 1952, Serial No. 630,308. Published June 16, 1953. Class 8.

579,979. Piece Goods of Silk, Rayon, Cotton, Synthetic Fibres, and Mixtures Thereof. Oberman Fabrics, Inc., New York, N. Y.
Filed May 27, 1952, Serial No. 630,344. Published June 16, 1953. Class 42.

579,980. Various Fabrics for Use in Draperies and in Upholstering, Made From All Fibres With Which Drapery and Upholstering Fabrics Are Being Made, Etc. Wayne Weavers, Inc., Philadelphia, Pa.
Filed May 27, 1952, Serial No. 630,363. Published June 16, 1953. Class 42.

579,981. Thermosetting Resins in the Forms of Granules and Powders. Capital Plastics, Inc., Rochester, N. Y.
Filed May 28, 1952, Serial No. 630,387. Published June 9, 1953. Class 6.

579,982. Photographic Developer, Sold in the Form of a Concentrate To Be Diluted With Water To Form a Photographic Paper Developer. Edwal Scientific Products Corp., Ringwood, Ill.
Filed June 2, 1952, Serial No. 630,589. Published June 9, 1953. Class 6.

579,983. Ladies' Dresses, Skirts, Suits, and Blouses. David Crystal, Inc., New York, N. Y.
Filed June 5, 1952, Serial No. 630,765. Published June 16, 1953. Class 39.

579,984. Knitting Yarn. Pauline Denham Yarns, Petaluma, Calif.
Filed June 9, 1952, Serial No. 630,925. Published June 16, 1953. Class 43.

579,985. Fabrics Made of a Combination of Rayon and Cotton Excluding Curtain, Upholstery, and Drapery Fabrics. Duchess Fabrics, Inc., New York, N. Y.
Filed June 17, 1952, Serial No. 631,277. Published Dec. 16, 1952. Class 42.

579,986. Intermittent Photographic Instruction Manuals and Publications; and Photographic Prints and Enlargements. Polaroid Corporation, Cambridge, Mass.
Filed June 21, 1952, Serial No. 631,569. Published June 2, 1953. Class 38.

579,987. Roll Coater, Impregnator, and Laminator Machines. John Waldron Corporation, Highland Park, N. J.
Filed Jan. 30, 1953, Serial No. 641,586. Published June 16, 1953. Class 23.

579,988. Children's, Girls', and Misses' Blouses, Skirts, Jumpers, Dresses, Outer Shorts, Playsuits, and Jackets. Johny Lee of California, Los Angeles, Calif.
Filed July 17, 1952, Serial No. 632,679. Published June 23, 1953. Class 39.

579,989. Steel and Alloy Steel Machined Parts, Forgings, and Stampings Made to Specification. The Zeller Corporation, Defiance, Ohio.
Filed July 17, 1952, Serial No. 632,705. Published June 16, 1953. Class 14.

579,990. Synthetic Organic Chemical Used as an Ore Flotation Agent. The Dow Chemical Company, Midland, Mich.
Filed July 19, 1952, Serial No. 632,775. Published June 23, 1953. Class 6.

579,991. Carpet Sweepers. The Fuller Brush Company, Hartford, Conn.
Filed June 17, 1952, Serial No. 632,813. Published June 2, 1953. Class 23.

579,992. Soft Hammers Adapted for Use in Applications Wherein It Is Necessary That the Hammer Be Softer Than the Work. The Custanite Corporation, Larchmont, N. Y.
Filed July 21, 1952, Serial No. 632,828. Published June 2, 1953. Class 23.

579,993. Textile Fabrics, Including Pile, Corduroy, and Velveteen, of Cotton and Rayon. Merrimack Manufacturing Company, Lowell, Mass., assignor to Merrimack Manufacturing Company (1952), Lowell, Mass.
Filed July 25, 1952, Serial No. 633,069. Published June 23, 1953. Class 42.

579,994. Rodenticides. Rose R. Newgren, Gates Mills, Ohio.
Filed July 29, 1952, Serial No. 633,212. Published June 16, 1953. Class 6.

579,995. Chemical-Metallurgical Preparation — Namely, a Rutile Substitute for the Manufacture of Arc Welding Electrodes. Foote Mineral Company, Philadelphia, Pa.
Filed Aug. 1, 1952, Serial No. 633,358. Published June 9, 1953. Class 6.

579,996. Spiced Olives, Packed in Cans or Jars. J. Ossola Co. Inc., also known as J. Ossola Co., New York, N. Y.
Filed May 21, 1952, Serial No. 633,694. Published June 16, 1953. Class 46.

579,997. Low-Carbon Ferrochrome Pellets for Use in Making Stainless and Other Alloy Steel. Union Carbide and Carbon Corporation, New York, N. Y.
Filed Aug. 12, 1952, Serial No. 633,796. Published Apr. 14, 1953. Class 14.

579,998. Polyvinyl Acetate. Chemische Forschungsgesellschaft m. b. H., Munich, Bavaria, Germany.
Filed July 12, 1952, Serial No. 633,822. Published June 9, 1953. Class 6.

579,999. Column Heading Appearing Periodically in Publications. The J. R. Watkins Company, Winona, Minn.
Filed Aug. 13, 1952, Serial No. 633,896. Published June 9, 1953. Class 38.

580,000. Dinette and Kitchen Tables. F. S. Harmon Manufacturing Company, Tacoma, Wash.
Filed Aug. 23, 1952, Serial No. 634,370. Published June 16, 1953. Class 32.

580,001. Polyvinyl Chloride. Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany, now by change of name Wacker-Chemie G. m. b. H.
Filed June 13, 1952, Serial No. 634,507. Published Mar. 31, 1953. Class 6.

580,002. Odor Dispersing Candle. Repello Products Company, Chicago, Ill.
Filed Sept. 3, 1952, Serial No. 634,807. Published June 23, 1953. Class 6.

580,003. Metal Awnings. Skaggs Mfg. Co., Inc., Memphis, Tenn.
Filed Sept. 4, 1952, Serial No. 634,866. Published June 9, 1953. Class 12.

580,004. Bag Making Machinery and Perforating Machines and Parts Therefor for Making Paper Foil and Plastic Bags and Like Articles. Roto Bag Machine Corporation, New York, N. Y.
Filed Sept. 8, 1952, Serial No. 634,991. Published June 2, 1953. Class 23.

580,005. Comic Strips in Periodical Publications. Milton Gross, Beverly Hills, Calif.
Filed Sept. 9, 1952, Serial No. 635,034. Published June 9, 1953. Class 38.

580,006. Medicinal Preparation in Tablet Form, Useful in the Treatment of Colds, Pains, and for Other Purposes. R. J. Strasenburgh Company, Rochester, N. Y.
Filed Sept. 9, 1952, Serial No. 635,068. Published June 23, 1953. Class 18.

580,007. Electronic Measuring Instruments and Auxiliary Apparatus—Namely, Oscilloscopes, Etc. Tektronix, Inc., Portland, Oreg.
Filed Sept. 10, 1952, Serial No. 635,104. Published June 16, 1953. Class 26.

580,008. Synthetic Waxes and Substitute Waxes. Strohmeyer & Arpe Company, New York, N. Y.
Filed Sept. 12, 1952, Serial No. 635,200. Published June 23, 1953. Class 6.

580,009. Medicinal Ointment. Victor Drug Company, Chicago, Ill.
Filed Sept. 12, 1952, Serial No. 635,206. Published June 23, 1953. Class 18.

580,010. Oral Antiseptic, Deodorant Preparation in Chewing Gum Form. Pharmaco, Inc., Kenilworth, N. J.
Filed Sept. 13, 1952, Serial No. 635,232. Published June 23, 1953. Class 18.

580,011. Plastic Sealing and Coating Composition for All Surfaces. Albert M. Cleaver, Fontana, Calif.
Filed Sept. 15, 1952, Serial No. 635,251. Published June 16, 1953. Class 16.

580,012. Antibiotic. American Cyanamid Company, New York, N. Y.
Filed Sept. 16, 1952, Serial No. 635,284. Published June 23, 1953. Class 18.

580,013. Liniment for Muscular Soreness, Cuts, Bruises, Sprains, Sunburn, and Frost Bites, and for an Eye Lotion for Care and Treatment of Eye Irritations. D. Ransom, Son and Company, Buffalo, N. Y.
Filed Sept. 16, 1952, Serial No. 635,318. Published June 23, 1953. Class 18.

580,014. Syrup Compound for Minor Coughs Due to Simple Colds. D. Ransom, Son and Company, Buffalo, N. Y.
Filed Sept. 16, 1952, Serial No. 635,320. Published June 23, 1953. Class 18.

580,015. Ointment for Muscular Aches and Pains, Minor Burns, and Minor Skin Irritations. D. Ransom, Son and Company, Buffalo, N. Y.
Filed Sept. 16, 1952, Serial No. 635,321. Published June 23, 1953. Class 18.

580,016. Rust Preventing Phosphate Coating for Ferrous and Non-Ferrous Metals. Apothecaries Hall Co., Waterbury, Conn.
Filed Sept. 17, 1952, Serial No. 635,341. Published June 16, 1953. Class 16.

580,017. Plywood. Georgia Lumber and Veneer Corporation, Toomsboro, Ga.
Filed Sept. 22, 1952, Serial No. 635,593. Published June 23, 1953. Class 12.

580,018. Razors of the Type Including a Cartridge Containing an Extended Length of Steel Ribbon Sharpened on One Edge. Warner-Hudnut, Inc., New York, N. Y.
Filed Sept. 23, 1952, Serial No. 635,667. Published June 2, 1953. Class 23.

580,019. Paint and Similar Type Protective and Decorative Coating and Surfacing Brushes. Samuel M. Dell & Co., Inc., Baltimore, Md.
Filed Sept. 24, 1952, Serial No. 635,690. Published June 23, 1953. Class 29.

580,020. Fresh Onions. Sherman K. Hardy, doing business as Hardy Herbs, Lexington, Mass.
Filed Sept. 25, 1952, Serial No. 635,766. Published June 9, 1953. Class 46.

580,021. Hard Paste Waxlike Material for Providing a Coating or Film, Particularly for Protective and Preservative Purposes, and for Use on Automobiles, Furniture, and the Like. Simoniz Company, Chicago, Ill.
Filed Sept. 27, 1952, Serial No. 635,887. Published June 16, 1953. Class 16.

580,022. Power Shovels. The Transmission & Gear Co., Dearborn, Mich., assignor to Le Roi Company, Milwaukee, Wis., a corporation of Wisconsin.
Filed Sept. 30, 1952, Serial No. 635,982. Published May 5, 1953. Class 23.

580,023. Piston Pins and Ball Bearings. Burgess-Norton Mfg. Co., Geneva, Ill.
Filed Oct. 1, 1952, Serial No. 635,994. Published June 2, 1953. Class 23.

580,024. Ladies' and Misses' Blouses, Dresses, Skirts, Jackets, and Suits. Susan Thomas, New York, N. Y.
Filed Oct. 6, 1952, Serial No. 636,260. Published June 23, 1953. Class 39.

580,025. Ophthalmic Preparation. Schering Corporation, Bloomfield, N. J.
Filed Oct. 10, 1952, Serial No. 636,399. Published June 23, 1953. Class 18.

580,026. Eyeshields and Goggles. Bausch & Lomb Optical Company, Rochester, N. Y.
Filed Oct. 11, 1952, Serial No. 636,508. Published June 16, 1953. Class 26.

580,027. Dressed Poultry. Pelahatchie Poultry Company, Pelahatchie, Miss.
Filed Oct. 14, 1952, Serial No. 636,602. Published June 9, 1953. Class 46.

580,028. Dressed Poultry. Pelahatchie Poultry Company, Pelahatchie, Miss.
Filed Oct. 14, 1952, Serial No. 636,603. Published June 23, 1953. Class 46.

580,029. Knitted Fabrics in the Piece, Having an Alpaca Face and Cotton Back. Security Mills, Inc., Newton, Mass., and New York, N. Y.
Filed Oct. 22, 1952, Serial No. 637,006. Published June 23, 1953. Class 42.

580,030. Turkish Towels. Cone Mills Inc., New York, N. Y.
Filed Nov. 1, 1952, Serial No. 637,480. Published June 23, 1953. Class 42.

580,031. Massage Lotion Used in the Treatment of Sprains, Strains, Bruises, and Contusions. Drake Laboratories, Incorporated, Orange, N. J.
Filed Nov. 12, 1952, Serial No. 637,916. Published June 23, 1953. Class 18.

580,032. Vegetable Fat Frozen Dessert, Made From Milk Solids, Vegetable Fat, Sugar, and Other Ingredients. Pevely Dairy Company, St. Louis, Mo.
Filed Nov. 14, 1952, Serial No. 638,094. Published June 16, 1953. Class 46.

580,033. Canned Fruits and Vegetables. Salter Canning Company, North Rose, N. Y.
Filed Nov. 15, 1952, Serial No. 638,162. Published June 2, 1953. Class 46.

580,034. Weed Killer. Spencer Chemical Company, Kansas City, Mo.
Filed Nov. 17, 1952, Serial No. 638,218. Published June 23, 1953. Class 6.

580,035. Prophylactic Rubber Articles for the Prevention of Contagious Diseases. National Hygienic Products Corp., Akron, Ohio.
Filed Nov. 25, 1952, Serial No. 638,595. Published June 16, 1953. Class 44.

580,036. Preparation for Hair Treatment, Eczema, Skin Itch, Old Sores, Pile Sufferers, Athlete's Foot, and Dandruff. Thomas Medella, doing business as Thos. Medella Co., St. Paul, Minn.
Filed Nov. 28, 1952, Serial No. 638,732. Published June 23, 1953. Class 18.

580,037. Preparation Useful in the Treatment of Conditions of the Vascular System, Particularly Hypertensia, and Having Vasodilator and/or Sedative Properties. Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc., a corporation of New Jersey.
Filed Nov. 28, 1952, Serial No. 638,739. Published June 23, 1953. Class 18.

580,038. Grey Iron Castings, Bars, and Plates. Lake Shore Engineering Company, Iron Mountain, Mich.
Filed Nov. 29, 1952, Serial No. 638,771. Published June 16, 1953. Class 14.

580,039. Glass Fabric in Stripe. Iden Associates, Chicago, Ill.
Filed Dec. 1, 1952, Serial No. 638,799. Published June 23, 1953. Class 42.

580,040. Sedative and Anti-Convulsant. Schering Corporation, Bloomfield, N. J.
Filed Dec. 1, 1952, Serial No. 638,814. Published June 23, 1953. Class 18.

580,041. Anti-Menorrhagic Factor. Armour and Company, Chicago, Ill.
Filed Dec. 4, 1952, Serial No. 638,942. Published June 23, 1953. Class 18.

580,042. Hand Woven Woolen Tweed Piece Goods. D. A. Smith & Co., New York, N. Y.
Filed Dec. 5, 1952, Serial No. 639,083. Published June 23, 1953. Class 42.

580,043. Dentifrice. The Lambert Company, St. Louis, Mo.
Filed Dec. 8, 1952, Serial No. 639,180. Published June 23, 1953. Class 51.

580,044. Sympatholytic and Adrenolytic Agent and as an Agent Affecting the Central Nervous System. Smith, Kline & French Laboratories, Philadelphia, Pa.
Filed Dec. 10, 1952, Serial No. 639,292. Published June 23, 1953. Class 18.

580,045. Preparation for Prophylactic Management of Ambulatory Patients With Coronary Insufficiency or Vascular Encephalopathies. Allied Laboratories, Inc., Kansas City, Mo.
Filed Dec. 11, 1952, Serial No. 639,306. Published June 23, 1953. Class 18.

580,046. Textile Fabrics Made of a Combination of Wool and Synthetic Fibers. Samuel P. Gross, Inc., Philadelphia, Pa.
Filed Dec. 11, 1952, Serial No. 639,327. Published June 23, 1953. Class 42.

580,047. Hair Conditioning Preparation. Perry Golden, doing business under the name Lampo Products, New York, N. Y.
Filed Dec. 12, 1952, Serial No. 639,366. Published June 23, 1953. Class 51.

580,048. Liquid Sulfur Dioxide, Liquid Methyl Chloride, Comminuted Free-Flowing Fire-Extinguishing Dry Chemical. Ansul Chemical Company, Marinette, Wis.
Filed Dec. 17, 1952, Serial No. 639,607. Published June 23, 1953. Class 6.

580,049. Purifying, Catalytic, and Decolorizing Materials—Namely, Magnesium Oxides. Food Machinery and Chemical Corporation, New York, N. Y.
Filed Dec. 19, 1952, Serial No. 639,752. Published June 16, 1953. Class 6.

580,050. Perfume. Otis Clapp & Son, Inc., Boston, Mass.
Filed Dec. 20, 1952, Serial No. 639,808. Published June 23, 1953. Class 51.

580,051. Demulsifier. Petrolite Corporation, Webster Groves, Mo.
Filed Dec. 20, 1952, Serial No. 639,829. Published June 9, 1953. Class 6.

580,052. Fresh Oysters. The Great Atlantic and Pacific Tea Company, New York, N. Y.
Filed Dec. 24, 1952, Serial No. 639,991. Published June 16, 1953. Class 46.

580,053. Cigarettes. International Minerals & Chemical Corporation, Chicago, Ill.
Filed Dec. 24, 1952, Serial No. 639,995. Published June 16, 1953. Class 17.

580,054. Candy. McAfee Candy Co., Inc., Macon, Ga.
Filed Jan. 6, 1953, Serial No. 640,405. Published June 23, 1953. Class 46.

580,055. Mailing Lists. Boyd's City Dispatch Incorporated, New York, N. Y.
Filed Jan. 7, 1953, Serial No. 640,438. Published June 23, 1953. Class 38.

580,056. Woolen Piece Goods. Forstmann Woolen Co., Passaic, N. J.
Filed Jan. 7, 1953, Serial No. 640,450. Published June 16, 1953. Class 42.

580,057. Textile Fabrics of Cotton, Wool, Silk, and Synthetic Fibres and Mixtures Thereof. The Duplan Corporation, New York, N. Y.
Filed Jan. 9, 1953, Serial No. 640,555. Published June 16, 1953. Class 42.

580,058. Acetone, Carbon Tetrachloride, Caustic Soda, and Trisodium Phosphate. John A. Chew, Incorporated, New York, N. Y.
Filed Jan. 15, 1953, Serial No. 640,784. Published June 9, 1953. Class 6.

580,059. Yarn of Natural and Synthetic Fibers and Combinations Thereof. Spinnerin Yarn Co., Inc., South Hackensack, N. J.
Filed Jan. 15, 1953, Serial No. 640,816. Published June 16, 1953. Class 43.

580,060. Girdles. Willoform Mfg. Co. Inc., New York, N. Y.
Filed Jan. 15, 1953, Serial No. 640,827. Published June 16, 1953. Class 39.

580,061. Textile Tufted Rugs and Carpets. Aldon Rug Mills, Inc., Philadelphia, Pa.
Filed Jan. 19, 1953, Serial No. 640,895. Published June 23, 1953. Class 42.

580,062. Vegetable Oil Shortening. Anderson, Clayton & Co., Sherman, Tex., and elsewhere.
Filed Jan. 21, 1953, Serial No. 640,997. Published June 23, 1953. Class 46.

580,063. Pile Fabrics in the Piece Composed of Nylon and Cotton. Sidney Blumenthal & Co., Inc., New York, N. Y.
Filed Jan. 21, 1953, Serial No. 641,005. Published June 23, 1953. Class 42.

580,064. Pile Fabrics in the Piece Composed of Wool, Cotton, and Rayon, or Various Combinations Thereof. Sidney Blumenthal & Co., Inc., New York, N. Y.
Filed Jan. 21, 1953, Serial No. 641,006. Published June 23, 1953. Class 42.

580,065. Sheets, Pillow Cases, and Piece Goods of Cotton, Rayon, and Mixtures Thereof. Oscar A. Brunner, doing business under the name Victoria Distributors, New York, N. Y.
Filed Jan. 21, 1953, Serial No. 641,010. Published June 23, 1953. Class 42.

580,066. Coal Tar Colors. Ciba Limited, Basel, Switzerland.
Priority under Sec. 44(d). Swiss Registration No. 144,267, filed Nov. 10, 1952.
Filed Feb. 10, 1953, Serial No. 642,014. Published June 23, 1953. Class 6.

580,067. Antiseptic Treatment for Rayon, Nylon, Other Synthetic Fibers, Cotton, Wool, and Silk in the Form of Fiber, Roving, Sliver, and Fabric. Scholler Brothers, Inc., Philadelphia, Pa.
Filed Jan. 21, 1953, Serial No. 641,094. Published June 23, 1953. Class 6.

580,068. Fabrics Made From Cotton and/or Synthetic Fibers or Blends Thereof. J. P. Stevens & Co. Inc., New York, N. Y.
Filed Jan. 21, 1953, Serial No. 641,099. Published June 23, 1953. Class 42.

580,069. Wool Braided Rugs. Topton Rug Manufacturing Co., Mertztown, Pa., and New York, N. Y.
Filed Jan. 21, 1953, Serial No. 641,101. Published June 23, 1953. Class 42.

580,070. Paint Mixers of the Shaker Type. Harbil Manufacturing Co., Chicago, Ill.
Filed Jan. 23, 1953, Serial No. 641,185. Published June 2, 1953. Class 23.

580,071. Composition in the Nature of a Solvent for Use in Removing Asphalt Tile Cement. Lino Paste Co., Chicago, Ill.
Filed Jan. 27, 1953, Serial No. 641,387. Published June 23, 1953. Class 52.

580,072. Hunters' Gloves Made of Leather. The Banton Corporation, New York, N. Y., and San Francisco, Calif.
Filed Jan. 29, 1953, Serial No. 641,491. Published June 16, 1953. Class 39.

580,073. Insecticides. Reefer-Galler, Incorporated, New York, N. Y.
Filed Jan. 30, 1953, Serial No. 641,574. Published June 23, 1953. Class 6.

580,074. Photographic Developers. Ilford, Limited, Ilford, Essex, England.
Filed Feb. 24, 1953, Serial No. 642,654. Published June 23, 1953. Class 6.

580,075. Fresh Apples. Hilliard Joseph, doing business as Joseph Northwest, Yakima, Wash.
Filed Feb. 24, 1953, Serial No. 642,659. Published June 23, 1953. Class 46.

580,076. Chemical Additives for Acid Pickling Baths. Quaker Chemical Products Corporation, Conshohocken, Pa.
Filed Feb. 27, 1953, Serial No. 642,904. Published June 23, 1953. Class 6.

580,077. Plasticizers for Use in Plastics. Hatco Chemical Company, Kearny, N. J.
Filed Mar. 16, 1953, Serial No. 643,683. Published June 16, 1953. Class 6.

580,078. Colloidal Penetrating Agent Used in the Textile Industry. Synthetic Chemicals, Inc., Paterson, N. J.
Filed Mar. 16, 1953, Serial No. 643,734. Published June 9, 1953. Class 6.

580,079. Fresh Grapes. Jasmine Vineyards, Delano, Calif.
Filed Mar. 20, 1953, Serial No. 643,962. Published June 23, 1953. Class 46.

580,080. Water Softening Compound. Wyandotte Chemicals Corporation, Wyandotte, Mich.
Filed Mar. 20, 1953, Serial No. 643,989. Published June 9, 1953. Class 6.

Service Marks

580,081. Food and Drink Catering Service. Vincent J. Jeep, Chicago, Ill.
Filed July 5, 1947, Serial No. 527,562. Published June 16, 1953. Class 100.

580,082. Automotive Vehicle Inspection, Lubrication, Repair, Cleaning, and Polishing. Pate Oil Company, Milwaukee, Wis.
Filed Sept. 24, 1947, Serial No. 535,601. Published June 16, 1953. Class 103.

580,083. Services Rendered by the Member Chapters and Members for Male College Students—Namely, the Encouragement and Practice of Good Fellowship and the Furthering of Good Study Habits and Educational Ideals. Chi Psi Fraternity, Ann Arbor, Mich.
Filed July 21, 1948, Serial No. 561,802. Published June 16, 1953. Class 100.

580,084. Finishing of Textile Fabrics To Render Them Crease Resistant. Ramapo Piece Dye Works, Inc., Sloatsburg, N. Y.
Filed May 9, 1950, Serial No. 597,166. Published June 23, 1953. Class 106.

580,085. Cleaning Carpets, Rugs, and Upholstered Furniture. Leon C. Schrack, Columbus, Ohio.
Filed June 5, 1950, Serial No. 598,606. Published June 23, 1953. Class 103.

580,086. Advertising the Goods of Others, Which Comprise Children's Wear, Through the Medium of Shows and Exhibitions Promoted Periodically in Different Cities of Different States. Philadelphia Childrens Wear Show, Inc., Philadelphia, Pa.
Filed June 20, 1950, Serial No. 599,450. Published June 16, 1953. Class 101.

580,087. Producing and Directing Musical and Dramatic Presentations. St. John Terrell, doing business under the name and style of Music Circus, Lambertville, N. J., Miami, Fla., and Hyannis, Cape Cod, Mass.
Filed Oct. 27, 1950, Serial No. 605,500. Published June 23, 1953. Class 107.

580,088. Manufacturing on a Custom Basis Gages, Jigs, Fixtures, Paper Roll Machines, Drilling Machines, Tube Rolling Machines, Machines for Sorting Nuts and Assembling Them to Bolts, Aircraft Parts, and Tool and Jet Engine Parts. Atlantic Machine Tool Works, Inc., Newington, Conn.
Filed Oct. 19, 1951, Serial No. 620,186. Published June 16, 1953. Class 106.

580,089. Treating Textile Fabrics of Others To Impart a Wrinkle Resistant Finish Thereon. Associated Dye & Print Co. Inc., Paterson, N. J.
Filed Jan. 24, 1952, Serial No. 624,007. Published June 23, 1953. Class 106.

580,090. Treating Fabrics of Others To Impart Water-Repellent Stain and Wrinkle Resistant Finishes Thereto. Associated Dye & Print Co. Inc., Paterson, N. J.
Filed Jan. 24, 1952, Serial No. 624,008. Published June 23, 1953. Class 106.

580,091. Catering Services. Louis Vaudable, Paris, France.
Filed Mar. 20, 1952, Serial No. 626,767. Published June 23, 1953. Class 100.

580,092. Management Counseling to the Bakery Industry Relating to Personnel, Organization, Production, Sales, Quality Control, Automotive and Plant Maintenance, and Finance. Bakers Associates Incorporated, Chicago, Ill.
Filed Mar. 31, 1952, Serial No. 627,313. Published June 23, 1953. Class 101.

580,093. Research and Community Service in the Field of Cardiovascular Disease. American Heart Association, Inc., New York, N. Y.
Filed Apr. 29, 1952, Serial No. 628,838. Published June 23, 1953. Class 100.

580,094. Gasoline Filling Station Services—Namely, Lubrication and Washing of Motor Vehicles. Farris C. Lind, Boise, Idaho.
Filed May 28, 1952, Serial No. 630,421. Published June 23, 1953. Class 103.

580,095. Towel Supply Service—Namely, Supplying Clean Towels and Exchanging Clean Towels for Soiled Towels on a Rental Basis. Industrial Garment Service, Inc., Chicago, Ill.
Filed Sept. 5, 1952, Serial No. 634,901. Published June 23, 1953. Class 100.

580,096. Drive-In Restaurant Service. Ken E. Bemis, Jr., Oakland, Calif.
Filed Sept. 30, 1952, Serial No. 635,949. Published June 23, 1953. Class 100.

580,097. Estate Planning Services—Namely, Making a Written Analysis for Individuals, Etc. Acacia Mutual Life Insurance Company, Washington, D. C.
Filed Oct. 6, 1952, Serial No. 636,189. Published June 23, 1953. Class 102.

580,098. Storage and Packing of Household Goods and for the Transportation of Household Goods by Motor Vehicle. Allied Van Lines, Inc., Broadview, Ill.
Filed Nov. 26, 1952, Serial No. 638,624. Published June 16, 1953. Class 105.

Certification Mark

580,099. Blueprints and Engineering Drawings. American Federation of Technical Engineers, Washington, D. C.
Filed Mar. 26, 1952, Serial No. 627,027. Published June 16, 1953. Class 38.

Collective Mark

580,100. Renting Vehicles for Use at Funerals and Furnishing Liveried Chauffeurs Therefor. Chicago and Suburban Livery Association, Chicago, Ill.
Filed July 19, 1949, Serial No. 582,164. Published June 23, 1953. Class 105.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

580,101. (Class 46. Foods and Ingredients of Foods.) The Maryland Biscuit Company, Baltimore, Md. Original filed, act of 1905, July 3, 1947; amended to application under act of 1946, Supplemental Register, June 24, 1953, Serial No. 525,910.



For Salted Crackers.
Claims use since June 1932.

580,102. (Class 46. Foods and Ingredients of Foods.) Zion Industries, Inc., Zion, Ill. Original filed, act of 1946, Principal Register, Dec. 10, 1948; amended to application, Supplemental Register, May 16, 1950, Serial No. 570,346.

Keep 'Em Handy—They're Dandy

For Candies, Cookies, and Pastries.
Claims use since Nov. 18, 1948.

580,103. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Walter F. Kiemer, Faribault, Minn., assignor to Faribault Woolen Mill Company, Faribault, Minn., a corporation of Minnesota. Original filed, act of 1946, Principal Register, Feb. 28, 1949; amended to application, Supplemental Register, Aug. 18, 1952, Serial No. 574,626.

Pak-a-Robe

For Combined Automobile or Stadium Robe and Carrying Case Therefor.
Claims use since Dec. 10, 1948.

580,104. (Class 52. Detergents and Soaps.) Albert J. Arena, doing business as De-Odor-Dent Co., Oakland, Calif. Original filed, act of 1946, Principal Register, Oct. 4, 1949; amended to application, Supplemental Register, Mar. 4, 1953, Serial No. 585,738.

Diamond-Brite

For Soluble Crystals for Cleaning and Removing Foreign Matter From Dental Tools.
Claims use since Oct. 15, 1948.

580,105. (Class 39. Clothing.) Richfield Clothes, New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 30, 1949; amended to application, Supplemental Register, Dec. 10, 1952, Serial No. 590,181.



For Men's Suits.
Claims use since Dec. 1, 1948.

580,106. (Class 8. Smokers' Articles, Not Including Tobacco Products.) Brown & Bigelow, St. Paul, Minn. Original filed, act of 1946, Principal Register, Aug. 2, 1950; amended to application, Supplemental Register, July 6, 1953, Serial No. 601,598.

REDI-FLAME

Applicant claims ownership of Registration No. 266,667.
For Automatic Cigarette Gas Lighters.
Claims use since April 1950.

580,107. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) George A. Gentry and Son, Newport News, Va. Original filed, act of 1946, Principal Register, Sept. 26, 1950; amended to application, Supplemental Register, Aug. 14, 1951, Serial No. 603,994.

Super Sickle

The drawing is shown in Stippling for Purposes of Shading Only.
For Power Lawn Mowers.
Claims use since Jan. 1, 1950.

580,108. (Class 39. Clothing.) Avon Shoe Co., Inc., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Oct. 25, 1950; amended to application, Supplemental Register, Dec. 23, 1950, Serial No. 605,400.

the softest shoes that ever walked

For Ladies' and Misses' Shoes, Made of Leather, Suede, Canvas, Fabric, or Compositions, and Combinations Thereof.
Claims use since July 1943.

580,109. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Harry V. Rooke, Fort Worth, Tex. Original filed, act of 1946, Principal Register, Oct. 30, 1950; amended to application, Supplemental Register, June 19, 1953, Serial No. 605,613.

TRIPPLE TRIMMER

The word "Trimmer" is disclaimed apart from the mark as shown.
For Electrically Operated Grass and Hedge Trimmers.
Claims use since May 15, 1948.

580,110. (Class 21. Electrical Apparatus, Machines, and Supplies.) International Resistance Company, Philadelphia, Pa. Original filed, act of 1946, Principal Register, Nov. 15, 1950; amended to application, Supplemental Register, July 20, 1953, Serial No. 606,428.

Concentrikit

For Package Containing Parts for Electronic Controls, Comprising a Control Cover, a Small Diameter Shaft and Contactor, Coupler, Resilient Retaining Ring, Spring Thrust Washer, Disc Washer, a Larger Diameter Shaft and Contactor, Bushing Ground Plate, Shaft Extension, Grounding Lug and Mounting Nut.
Claims use since Nov. 1, 1949.

580,111. (Class 39. Clothing.) D. A. Schulte, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, June 25, 1951; amended to application, Supplemental Register, June 17, 1953, Serial No. 609,261.

Lovely Leeds

For Ladies' Hosiery.
Claims use since Nov. 1, 1949.

580,112. (Class 15. Oils and Greases.) Consolidated Oil Company, Detroit, Mich. Original filed, act of 1946, Principal Register, Feb. 12, 1951; amended to application, Supplemental Register, Jan. 11, 1952, Serial No. 609,963.

"CLEARFLAME"

For Fuel Oil and Kerosene.
Claims use since Apr. 1, 1950.

580,113. (Class 18. Medicines and Pharmaceutical Preparations.) Melville Sahyun, doing business as Sahyun Laboratories, Santa Barbara, Calif. Original filed, act of 1946, Principal Register, Feb. 15, 1951; amended to application, Supplemental Register, Mar. 11, 1953, Serial No. 610,146.

TWIN-CAPS

For Vitamins for Children in Capsule Form.
Claims use since Jan. 18, 1951.

580,114. (Class 7. Cordage.) National Printed String Co., Chicago, Ill. Original filed, act of 1946, Principal Register, Mar. 3, 1951; amended to application, Supplemental Register, May 22, 1953, Serial No. 610,795.

TIE-N-CURL

For Ribbon-Like Material Formed of Unwoven Cotton Fibers and a Plastic Bonding Substance for the Fibers, Adapted for Use in Tying Packages and Capable of Being Curled by Drawing It Across an Edge.
Claims use since Sept. 13, 1950.

580,115. (Class 32. Furniture and Upholstery.) Royal Typewriter Company, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, May 11, 1951; amended to application, Supplemental Register, Apr. 8, 1953, Serial No. 613,783.

PEDESTALEG

For Auxiliary Leg-Like Support To Be Used for Instance, To Keep the Slidable Leaf of a Desk From Wobbling When Extended.
Claims use since Apr. 11, 1951.

580,116. (Class 2. Receptacles.) Standard Folding Trays Corp., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, July 21, 1953; amended to application, Supplemental Register, May 26, 1951, Serial No. 614,413.

TWIN-CUSHION

For Folding Paper Boxes.
Claims use since Dec. 1, 1950.

580,117. (Class 18. Medicines and Pharmaceutical Preparations.) Sanford Kornfeld, doing business under the name and style of K & L Drug Company, Oakland, Calif. Original filed, act of 1946, Principal Register, July 13, 1951; amended to application, Supplemental Register, July 1, 1953, Serial No. 616,427.

ACETO-LAC

For Vaginal Suppositories.
Claims use since Apr. 16, 1951.

580,118. (Class 37. Paper and Stationery.) David Kahn, Inc., North Bergen, N. J. Original filed, act of 1946, Principal Register, Oct. 2, 1951; amended to application, Supplemental Register, July 15, 1953, Serial No. 619,512.

GILTONE

For Fountain Pens, Ball-Pointed Pens, Mechanical Pencils, and Parts Therefor—Namely, Clips, Ornamental Bands, Eraser Retainers, Caps, Barrels, Tips, and Pen Points.
Claims use since Sept. 12, 1951.

580,119. (Class 26. Measuring and Scientific Appliances.) Knopf Instrument Company, Jersey City, N. J., now by change of name Engler Instrument Company. Original filed, act of 1946, Principal Register, Oct. 9, 1951; amended to application, Supplemental Register, Aug. 29, 1952, Serial No. 619,762.

TRAVEL LOG

For Recorders for Vehicles for Making Continuous Records of the Speed, Distance Traveled, Number of Stops, and Time Elapsed During Each Stop and While the Vehicle Is Traveling.
Claims use since 1933.

580,120. (Class 12. Construction Materials.) The William Bayley Company, Springfield, Ohio. Original filed, act of 1946, Principal Register, Oct. 16, 1951; amended to application, Supplemental Register, May 7, 1953, Serial No. 620,021.

SAF-T-GARD

For Hospital and Institution Windows.
Claims use since May 1949.

580,121. (Class 46. Foods and Ingredients of Foods.) Top Wip Company, St. Louis, Mo., by mesne assignments, from Development Research, Inc. Original filed, act of 1946, Principal Register, Nov. 28, 1951; amended to application, Supplemental Register, July 13, 1953, Serial No. 621,759.

top wip

For Fluffed Cream for Use as a Food Topping.
Claims use since Nov. 16, 1951.

580,122. (Class 19. Vehicles.) Ideal Kitchen Equipment Co., Inc., New York, N. Y. Filed Jan. 14, 1952, Serial No. 623,543.

"SUPER-STURDY"

For Hand Pushed Trucks for Use in Hospitals, Kitchens, and on Platforms To Convey Food, Dishes, Baggage, and the Like.
Claims use since July 1948.

580,123. (Class 38. Prints and Publications.) Soil and Water Conservation, Inc., Temple, Tex. Original filed, act of 1946, Principal Register, Feb. 14, 1952; amended to application, Supplemental Register, June 29, 1953, Serial No. 624,976.

SOIL and WATER

For Periodical.
Claims use since Jan. 7, 1952.

580,124. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) T. B. Wood's Sons Company, Chambersburg, Pa. Original filed, act of 1946, Principal Register, Feb. 28, 1952; amended to application, Supplemental Register, Feb. 11, 1953, Serial No. 625,705.

LIFE-LUBE

For Ball Bearing Pillow Blocks and Flange Units and Related Housings.
Claims use since Mar. 21, 1951.

580,125. (Class 32. Furniture and Upholstery.) Hudson Foam Latex Fabricators, Inc., Yonkers, N. Y. Original filed, act of 1946, Principal Register, Mar. 13, 1952; amended to application, Supplemental Register, June 25, 1953, Serial No. 626,378.

Pad-o'-Foam

For Foam Rubber Cushions.
Claims use since Mar. 5, 1952.

580,126. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Michigan Powdered Metal Products Company, Inc., Northville, Mich. Filed Jan. 18, 1952, Serial No. 626,432.



The word "Bearings" is disclaimed apart from the mark as shown.

For Machine Elements—Namely, Sintered Powdered Metal Bearings With Lubricant Reservoirs Therein.

Claims use since Sept. 12, 1949.

580,127. (Class 44. Dental, Medical, and Surgical Appliances.) Hugo R. Hustad, doing business as M-R Guide Company, Detroit, Mich. Original filed, act of 1946, Principal Register, Mar. 17, 1952; amended to application, Supplemental Register, Mar. 11, 1953, Serial No. 626,571.

Twirlit

For Receptacles for Holding and Shaking Down Clinical Thermometers.

Claims use since Oct. 18, 1951.

580,128. (Class 26. Measuring and Scientific Appliances.) Toledo Scale Company, Toledo, Ohio. Filed Mar. 15, 1952, Serial No. 626,844.

HONEST WEIGHT

Applicant claims ownership of Registration No. 178,449.

For Weighing Scales, and Devices for Measuring, Indicating and/or Recording Gravitational; Centrifugal, Inertial, Elastic, Adhesive, Viscous, Electrical and Magnetic Forces, Stresses and Conditions of Balance and Imbalance, and Parts Thereof.

Claims use since Jan. 1, 1909.

580,129. (Class 32. Furniture and Upholstery.) Sport Seat, Columbus, Miss. Original filed, act of 1946, Principal Register, Mar. 24, 1952; amended to application, Supplemental Register, Mar. 26, 1953, Serial No. 626,963.



The lining on the drawing is for shading purposes only.

For Portable Collapsible Seat Made From Foldable Flat Paper Sheet Material, Which May Be Readily Carried in a Compact, Folded Position, and Unfolded To Provide Individual Seat and Backrest.

Claims use since Sept. 15, 1951.

580,130. (Class 21. Electrical Apparatus, Machines, and Supplies.) Winterwarm Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Apr. 14, 1952; amended to application, Supplemental Register, July 14, 1953, Serial No. 628,075.

Winterwarm

For Electric Blankets, Electric Sheets, Electric Mattress Pads, and Electric Foot Warmers.

Claims use since December 1951.

580,131. (Class 12. Construction Materials.) Kesko Products, Inc., Bristol, Ind. Filed Apr. 26, 1952, Serial No. 628,765.

Therm-o-Sash

For Window Sash and Closure Consisting of an Insulated Metal Window.

Claims use since Feb. 7, 1950.

580,132. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Miron Mills, Incorporated, Clinton, Mass. Original filed, act of 1946, Principal Register, May 24, 1952; amended to application, Supplemental Register, June 30, 1953, Serial No. 630,199.

VOILANA

For Woolen Piece Goods.

Claims use since Mar. 4, 1952.

580,133. (Class 32. Furniture and Upholstery.) Dallas Smith Corporation, Indianapolis, Ind. Original filed, act of 1946, Principal Register, June 4, 1952; amended to application, Supplemental Register, June 25, 1953, Serial No. 630,702.



For Cardboard Chairs.

Claims use since Apr. 10, 1952.

580,134. (Class 39. Clothing.) Carlye Dress Corporation, St. Louis, Mo. Original filed, act of 1946, Principal Register, June 5, 1952; amended to application, Supplemental Register, June 25, 1953, Serial No. 630,755.

Tremayne

For Women's Dresses.

Claims use since May 23, 1952.

580,135. (Class 51. Cosmetics and Toilet Preparations.) Sales Affiliates, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, June 12, 1952; amended to application, Supplemental Register, May 25, 1953, Serial No. 631,124.

COLOR-QUICK

For Hair Coloring Product.

Claims use since May 15, 1952.

580,136. (Class 51. Cosmetics and Toilet Preparations.) Lester Scott Whitaker, Jr., Niles, Calif. Original filed, act of 1946, Principal Register, June 16, 1952; amended to application, Supplemental Register, May 25, 1953, Serial No. 631,387.

BAN BURN

For Sunscreen-Suntan Lotion.

Claims use since June 1, 1949.

580,137. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Einiger Mills, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, June 21, 1952; amended to application, Supplemental Register, Mar. 30, 1953, Serial No. 631,550.

LUXURY-LOOMED BY
EINIGER

For Textile Fabrics in the Piece Made of Wool or Combinations With Cashmere Thereof.

Claims use since on about May 10, 1951.

580,138. (Class 46. Foods and Ingredients of Foods.) Dubuque Packing Company, Dubuque, Iowa. Original filed, act of 1946, Principal Register, July 2, 1952; amended to application, Supplemental Register, June 25, 1953, Serial No. 632,079.

IOWA MAID

For Canned Vienna Sausage, Pressed Ham, and Pork Luncheon Meat.

Claims use since Apr. 1, 1952.

580,139. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Gordon Johnson Company, Kansas City, Mo. Original filed, act of 1946, Principal Register, July 16, 1952; amended to application, Supplemental Register, June 3, 1953, Serial No. 632,613.

GIANT QUILL PULLER

For Poultry Plucking Machines and Parts Thereof.

Claims use since December 1949.

580,140. (Class 26. Measuring and Scientific Appliances.) Duroloid Optical Company, Providence, R. I. Original filed, act of 1946, Principal Register, July 21, 1952; amended to application, Supplemental Register, June 29, 1953, Serial No. 632,832.

COPLEY

For Optical Frames.

Claims use since June 25, 1952.

580,141. (Class 22. Games, Toys, and Sporting Goods.) Price-Driscoll Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, July 21, 1952; amended to application, Supplemental Register, May 14, 1953, Serial No. 632,849.

handy-reel

For Combination Reel and Handle for Storage and Manipulation of Control Lines for Model Craft (Air and Surface).

Claims use since Feb. 29, 1952.

580,142. (Class 26. Measuring and Scientific Appliances.) Micro Record Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 5, 1952; amended to application, Supplemental Register, July 15, 1953, Serial No. 633,501.

Micro Record

For Cameras, Film Projectors, Film Developing Tanks, and Film Dryers.

Claims use since February 1947.

580,143. (Class 26. Measuring and Scientific Appliances.) Jacob N. Weber, Seattle, Wash. Original filed, act of 1946, Principal Register, Aug. 12, 1952; amended to application, Supplemental Register, July 10, 1953, Serial No. 633,809.

Weber
MEASURITE

For T-Shaped Projectable and Retractable Measuring Sticks for Use by Tailors in Measuring the Length of Trousers.

Claims use since May 26, 1952.

580,144. (Class 49. Distilled Alcoholic Liquors.) The Kinloch Distillery Company, Limited, Glasgow, Scotland. Filed Aug. 13, 1952, Serial No. 634,067.

Scottish Cream

No claim is made to the words "Scottish Cream." Applicant claims ownership of British Registration No. 656,659, dated Feb. 20, 1947.
For Scotch Whisky.

580,145. (Class 19. Vehicles.) Cobbs Manufacturing Company, Des Moines, Iowa. Original filed, act of 1946, Principal Register, Aug. 18, 1952; amended to application, Supplemental Register, June 17, 1953, Serial No. 634,073.

Snap-on Visor

For Automotive Vehicle Registration Certificate Holder.
Claims use since Nov. 15, 1925.

580,146. (Class 32. Furniture and Upholstery.) Douglas Furniture Corporation, Chicago, Ill. Original filed, act of 1946, Principal Register, Aug. 25, 1952; amended to application, Supplemental Register, June 11, 1953, Serial No. 634,393.

Chromspun

For Kitchen and Dinette Tables and Chairs.
Claims use since June 9, 1952.

580,147. (Class 39. Clothing.) Glovecraft, Inc., Johnstown, N. Y. Original filed, act of 1946, Principal Register, Feb. 20, 1953; amended to application, Supplemental Register, June 18, 1953, Serial No. 642,544.

GRIPTITE

For Ladies' and Men's Fabric Gloves.
Claims use since Oct. 22, 1951.

580,148. (Class 38. Prints and Publications.) G. & C. Merriam Company, Springfield, Mass. Filed Feb. 20, 1953, Serial No. 642,563.

A Merriam-Webster

Applicant claims ownership of Registration No. 300,136.
For Dictionaries.
Claims use since Nov. 2, 1931.

Service Mark

580,149. (Class 106. Material Treatment.) The Kenyon Piece Dyeworks, Inc., Kenyon, R. I. Original filed, act of 1946, Principal Register, July 24, 1952; amended to application, Supplemental Register, May 28, 1953, Serial No. 632,990.

MET-L-CHINE

For Dyeing and Printing Piece Goods.
Claims use since Apr. 30, 1952.

TRADE-MARK REGISTRATIONS RENEWED

41,413. LISTERINE. Registered Nov. 3, 1903. Lambert Pharmacal Company. Re-renewed Nov. 3, 1953, to The Lambert Company, St. Louis, Mo., a corporation of Delaware. Liquid Chemical or Medical Preparation Manufactured by Us Under a Private Formula and More Especially Known as an Antiseptic, Etc. Class 51.

41,630. VANILLODINE. Registered Dec. 8, 1903. Haarmann-De Laire-Schaefer Co. Re-renewed Dec. 8, 1953, to Maywood Chemical Works, Maywood, N. J., a corporation of New Jersey. Perfumery and Flavoring Products. Class 51.

41,631. IRALDEINE. Registered Dec. 8, 1903. Haarmann-De Laire-Schaefer Co. Re-renewed Dec. 8, 1953, to Maywood Chemical Works, Maywood, N. J., a corporation of New Jersey. Perfumery. Class 51.

90,635. BIG VICTOR. Registered Mar. 11, 1913. The Globe Soap Company. Re-renewed Mar. 11, 1953, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio. Soap. Class 52.

92,534. REPRESENTATION OF TREFOIL. Registered July 15, 1913. Chesebrough Manufacturing Company, Consolidated, New York, N. Y., a corporation of New York. Re-renewed July 15, 1953. Petroleum Jelly. Class 6.

92,608. MALO. Registered July 15, 1913. White-Stokes Company, Incorporated, Chicago, Ill., a corporation of Delaware. Re-renewed July 15, 1953. Icing, Dressing for Salad, Fruits, Hot Chocolate, and Ice-Cream. Class 46.

92,659. ALUMINA SOAPALITE. Registered July 22, 1913. The Electric Smelting and Aluminum Company, Lockport, N. Y. Re-renewed July 22, 1953, to Cowles Chemical Company, Cleveland, Ohio, a corporation of Ohio. Soluble Chemical Compound for Use as a Detergent. Class 52.

92,678. JOHNSON'S. Registered July 22, 1913. Johnson & Johnson, New Brunswick, N. J., a corporation of New Jersey. Re-renewed July 22, 1953. Surgical Dressings of Gauze and Cotton and Wool, Adhesive Plasters, Etc. Class 44.

92,784. BOAT HOUSE. Registered July 29, 1913. John Blyth, assignor to The Blyth Tea Company. Re-renewed July 29, 1953, to The Boat House Coffee & Tea Company, Cincinnati, Ohio, a corporation of Ohio. Bourbon Santos Coffee. Class 46.

93,055. "MONTEZUMA" AND DESIGN. Registered Aug. 12, 1913. Warner-Quinlan Asphalt Company, Syracuse, N. Y. Re-renewed Aug. 12, 1953, to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania. Asphaltum. Class 12.

93,484. TOWN TALK. Registered Sept. 16, 1913. Worcester Baking Company, Worcester, Mass., a corporation of Massachusetts. Re-renewed Sept. 16, 1953. Bread. Class 46.

94,413. "AMERICAN FELT COMPANY" AND DESIGN. Registered Dec. 9, 1913. American Felt Company, Boston, Mass. Re-renewed Dec. 9, 1953, to American Felt Company, Glenville, Conn., a corporation of Massachusetts. Felt in the Piece. Class 50.

94,424. "SWEETHEART NOVIA" AND DESIGN. Registered Dec. 9, 1913. Frank Gaius Burke. Re-renewed Dec. 9, 1953, to Manhattan Soap Company, Inc., New York, N. Y., a corporation of New York. Toilet Soaps. Class 52.

300,876. SERVICE. Registered Feb. 14, 1933. John F. Rider Publications. Renewed Feb. 14, 1953, to Bryan Davis Publishing Company, Inc., New York, N. Y., a corporation of New York. Monthly Digest of Radio and Allied Maintenance. Class 38.

302,401. COLUMBIA. Registered Apr. 18, 1933. Columbia Phonograph Company, Inc. Renewed Apr. 18, 1953, to Columbia Records Inc., Bridgeport, Conn., a corporation of Delaware. Laundry Cabinet Dryers, Dry Cleaning Machines, Ironing Boards, Etc. Class 24.

303,123. "DRACKETT" AND DESIGN. Registered May 9, 1933. The Drackett Chemical Company. Renewed May 9, 1953, to The Drackett Company, Cincinnati, Ohio, a corporation of Ohio. Caustic Soda, Chlorinated Lime, Epsom Salt, Etc. Class 52.

303,235. NUWAY. Registered May 16, 1933. Henney Motor Company. Renewed May 16, 1953, to Henney Motor Company, Inc., Freeport, Ill., a corporation of New York. Motor-Driven Ambulances, Hearses, Funeral Coaches, Etc. Class 19.

303,467. THOROFARE. Registered May 23, 1933. The Dayton Rubber Manufacturing Company. Renewed May 23, 1953, to The Dayton Rubber Company, Dayton, Ohio, a corporation of Ohio. Vehicle Tires and Inner Tubes, Made of Rubber and Rubber and Fabric. Class 35.

303,744. COLUMBIA. Registered June 6, 1933. Columbia Phonograph Company, Inc. Renewed June 6, 1953, to Columbia Records Inc., Bridgeport, Conn., a corporation of Delaware. Refrigerators and Parts Thereof. Class 31.

303,861. SEALED POWER. Registered June 13, 1933. The Piston Ring Company. Renewed June 13, 1953, to Sealed Power Corporation, Muskegon, Mich., a corporation of Michigan. Piston Rings. Class 35.

303,885. ROLLON. Registered June 13, 1933. The Dayton Rubber Manufacturing Company. Renewed June 13, 1953, to The Dayton Rubber Company, Dayton, Ohio, a corporation of Ohio. Vehicle Tires and Inner Tubes, Made of Rubber and Rubber and Fabric. Class 35.

303,953. ROLA. Registered June 13, 1933. The Rola Company. Renewed June 13, 1953, to The Rola Company Inc., Cleveland, Ohio, a corporation of Ohio. Radio Receiving Sets and Parts Thereof, Loud Speaker Diaphragms, Etc. Class 21.

303,962. "CERA-LAC" ETC. AND DESIGN. Registered June 13, 1933. The Cera-Lac Company. Renewed June 13, 1953, to Albert Langlois, Los Angeles, Calif. Natural Grain Flour With Bran, Cereal Breakfast Food, and Bread. Class 46.

304,091. "KREPPELINE". Registered June 20, 1933. I. P. Bemberg Aktiengesellschaft, Wuppertal-Oberbarmen and Wuppertal-Elberfeld, Germany, assignor to American Bemberg Corporation. Renewed June 20, 1953, to Beaunit Mills, Inc., New York, N. Y., a corporation of New York. Textile Materials in the Piece, Composed Wholly or in Part of Artificial Silk. Class 42.

304,150. "WRIGLEY'S" AND DESIGN LINED FOR RED. Registered June 20, 1933. Wm. Wrigley Jr. Company, Chicago, Ill., a corporation of Delaware. Renewed June 20, 1953. Chewing Gum. Class 46.

304,583. ARBORDALE. Registered July 11, 1933. International Distributing Co. Renewed July 11, 1953, to Hough Shade Corporation, Janesville, Wis., a corporation of Connecticut. Porch Shades and Window Shades. Class 32.

304,588. BRAFORM. Registered July 11, 1933. I. B. Kleinert Rubber Company, New York, N. Y., a corporation of New York. Renewed July 11, 1953. Ladies' Undergarments—I. E., Brassières With and Without Dress Shields. Class 39.

304,591. TARNISHIELD. Registered July 11, 1933. Crompton Company. Renewed July 11, 1953, to Crompton Company, West Warwick, R. I., a corporation of Delaware. Treated Tarnish Proof, Napped and Pile Fabrics for Use in Packing Silver. Class 42.

304,606. LE COULTRE CO. Registered July 11, 1933, Société Anonyme de la Fabrique d'Horlogerie Le Coultre & Cie, Le Sentier, Switzerland, a corporation organized under the laws of the Confederation of Switzerland. Renewed July 11, 1953. Watches, Watch Movements, and Parts Thereof. Class 27.

304,607. LECOULTRE. Registered July 11, 1933. Société Anonyme de la Fabrique d'Horlogerie Le Coultre & Cie, Le Sentier, Switzerland, a corporation organized under the laws of the Confederation of Switzerland. Renewed July 11, 1953. Watches, Watch Movements, and Parts Thereof. Class 27.

304,765. TRADITION BOND. Registered July 18, 1933. E. E. Lloyd Paper Company, Chicago, Ill., a corporation of Illinois. Renewed July 18, 1953. Writing Paper. Class 37.

305,168. "PETITES" ETC. Registered Aug. 8, 1933. Saks & Company, New York, N. Y., a corporation of New York. Renewed Aug. 8, 1953. Handbags, Suit-Cases, Valises, Overnight Cases, and Hat Boxes. Class 3.

305,558. SEXOLOGY. Registered Aug. 22, 1933. Hugo Gernsback, doing business as Sexology Magazine, New York, N. Y. Renewed Aug. 22, 1953. Quarterly Publication. Class 38.

305,623. FLEXEES. Registered Aug. 22, 1933. Artistic Brassiere Co. Inc. Renewed Aug. 22, 1953, to Artistic Foundations Inc., New York, N. Y., a corporation of New York. Girdles, Corsets, and Brassières and Combinations Thereof. Class 39.

306,089. TEXROPE. Registered Sept. 5, 1933. Allis-Chalmers Manufacturing Company, Milwaukee and West Allis, Wis., a corporation of Delaware. Renewed Sept. 5, 1953. Transmission Belts and Belting of Fabric, and of Rubber or Gutta Percha, Etc. Class 35.

306,140. SUPER-CLINCH. Registered Sept. 12, 1933. Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut. Renewed Sept. 12, 1953. Hose Couplings and Menders. Class 13.

306,178. LISTERINE. Registered Sept. 12, 1933. Lambert Pharmacal Company, Wilmington, Del. Renewed Sept. 12, 1953, to The Lambert Company, St. Louis, Mo., a corporation of Delaware. Atomizers. Class 44.

306,455. "PETITES" ETC. Registered Sept. 19, 1933. Saks & Company, New York, N. Y., a corporation of New York. Renewed Sept. 19, 1953. Ladies' Shoes of Leather, Rubber, and Fabric and Combinations of These Materials; Etc. Class 39.

306,553. CITIES SERVICE 60. Registered Sept. 26, 1933. The Cities Service Oil Company, Cleveland, Ohio. Renewed Sept. 26, 1953, to Cities Service Oil Company, Bartlesville, Okla., a corporation of Delaware. Dry Cleaning Preparation. Class 52.

306,714. SIGNAL LIGHT. Registered Sept. 26, 1933. The Diamond Match Company. Renewed Sept. 26, 1953, to The Diamond Match Company, New York, N. Y., a corporation of Delaware. Matches. Class 9.

306,715. "GREEN GODDESS" AND DESIGN. Registered Sept. 26, 1933. The Diamond Match Company. Renewed Sept. 26, 1953, to The Diamond Match Company, New York, N. Y., a corporation of Delaware. Matches. Class 9.

306,716. GREEN GODDESS. Registered Sept. 26, 1933. The Diamond Match Company. Renewed Sept. 26, 1953, to The Diamond Match Company, New York, N. Y., a corporation of Delaware. Matches. Class 9.

306,719. "SIGNAL LIGHT" AND DESIGN. Registered Sept. 26, 1933. The Diamond Match Company. Renewed Sept. 26, 1953, to The Diamond Match Company, New York, N. Y., a corporation of Delaware. Matches. Class 9.

306,866. MAZETTA. Registered Oct. 3, 1933. White-Stokes Company, Incorporated, Chicago, Ill., a corporation of Delaware. Renewed Oct. 3, 1953. Confectioners' Paste To Be Used in Making Candies. Class 46.

306,876. ZENEL. Registered Oct. 3, 1933. Bonney Forge & Tool Works, Allentown, Pa., a corporation of Pennsylvania. Renewed Oct. 3, 1953. Wrenches. Class 23.

306,883. BLUETTE. Registered Oct. 3, 1933. Gillette Safety Razor Company. Renewed Oct. 3, 1953, to The Gillette Company, Boston, Mass., a corporation of Delaware. Safety Razor Blades, Packaged or Unpackaged. Class 23.

306,894. COSMOPOLITAN. Registered Oct. 3, 1933. Otto Roth, Inc., Newark, N. J. Renewed Oct. 3, 1953, to Cotton Razor Blade Company, Boston, Mass., a corporation of Massachusetts. Safety Razor Blades, Packaged or Unpackaged. Class 23.

307,595. SIMCO. Registered Oct. 31, 1933. Simmons Hardware Company. Renewed Oct. 31, 1953, to Shapleigh Hardware Company, St. Louis, Mo., a corporation of Missouri. Ready Mixed Paints, Varnishes, and Paint Enamels. Class 16.

307,596. PENNANT. Registered Oct. 31, 1933. Simmons Hardware Company. Renewed Oct. 31, 1953, to Shapleigh Hardware Company, St. Louis, Mo., a corporation of Missouri. Ready Mixed Paints, Varnishes, and Paint Enamels. Class 16.

307,642. "FORMLINE". Registered Oct. 31, 1933. The Enro Shirt Company, Inc., Louisville, Ky., a corporation of Kentucky. Renewed Oct. 31, 1953. Negligee and Dress Shirts, Etc. Class 39.

307,857. CHILIO. Registered Nov. 7, 1933. Worumbo Manufacturing Company, Lisbon Falls, Maine, a corporation of Maine. Renewed Nov. 7, 1953. Woolen Fabrics in the Piece. Class 42.

307,858. CHINEELO. Registered Nov. 7, 1933. Worumbo Manufacturing Company, Lisbon Falls, Maine, a corporation of Maine. Renewed Nov. 7, 1953. Woolen Fabrics in the Piece. Class 42.

308,133. GOLD RUSH. Registered Nov. 21, 1933. Becker-Best Company, Phoenix, Ariz. Renewed Nov. 21, 1953, to Earl C. Becker, doing business as Earl C. Becker Company, Mesa, Ariz. Fresh Vegetables and Melons. Class 46.

308,143. "KING KORN" ETC. AND DESIGN LINED FOR GREEN AND YELLOW. Registered Nov. 21, 1933. Food Display Machine Corporation, Chicago, Ill. Renewed Nov. 21, 1953, to King Kone Corporation, New York, N. Y., a corporation of New York. Corn Chips. Class 46.

308,199. MAMA'S. Registered Nov. 21, 1933. Mama Cookie Bakeries, Inc., Chicago, Ill., a corporation of Delaware. Renewed Nov. 21, 1953. Puddings and Malted Milk Desserts. Class 46.

308,316. "AVALON" AND DESIGN. Registered Nov. 28, 1933. Elizabeth City Hosiery Co. Renewed Nov. 28, 1953, to Robinson Manufacturing Company, Elizabeth City, N. C., a corporation of North Carolina. Hosiery. Class 39.

308,427. BALUX. Registered Dec. 5, 1933. Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York. Renewed Dec. 5, 1953. Ophthalmic Lenses. Class 26.

308,439. FLEISHMANN'S. Registered Dec. 5, 1933. Standard Brands Incorporated, New York, N. Y., a corporation of Delaware. Renewed Dec. 5, 1953. Gin and Other Potable Distilled Liquors. Class 49.

308,486. "STEPHANO'S CIGARETTES" ETC. AND DESIGN. Registered Dec. 5, 1933. Stephano Brothers, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Dec. 5, 1953. Cigarettes. Class 17.

308,492. TUSSY. Registered Dec. 5, 1933. Lesquendieu, Incorporated, New York, N. Y. Renewed Dec. 5, 1953, to Lehn & Fink Products Corporation, Bloomfield, N. J., a corporation of Delaware. Face Powder, Liquid Face Powder, Rouge, Etc. Class 51.

308,530. GOTHIC. Registered Dec. 5, 1933. The Ruberoid Co., Bound Brook, N. J., and New York, N. Y., a corporation of New Jersey. Renewed Dec. 5, 1953. Asbestos-Cement Shingles. Class 12.

308,549. "PROBAK" AND DESIGN. Registered Dec. 5, 1933. Probak Corporation, Jersey City, N. J., assignor to Gillette Safety Razor Company. Renewed Dec. 5, 1953, to The Gillette Company, Boston, Mass., a corporation of Delaware. Shaving Cream, Shaving Soap, and Razor Strops. Class 4.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

114,671. EATMOR. Registered Jan. 2, 1917. American Cranberry Exchange, New York, N. Y. Cranberries. Class 46. Amended as follows: In the certificate, lines 2 and 17; in the heading to the registration; and in line 2 of the statement, after "Exchange," *now by change of name Eatmor Cranberries, Inc.*, is inserted; and a new declaration wherein, among other changes, "the" in line 2 has been deleted and *Eatmor Cranberries, Inc., formerly* inserted in lieu thereof, has been substituted for the original.

502,485. SNOWHITE. Registered Sept. 28, 1948. Stauffer Chemical Company, San Francisco, Calif. Cream Tartar, Tartaric Acid, Etc. Class 6. The drawing is hereby amended to appear as follows:

SNOWHITE

521,297. REPRESENTATION OF A CRANBERRY MAN. Registered Feb. 21, 1950. American Cranberry Exchange, New York, N. Y. Fresh Cranberries. Class 46. Amended as follows: In the certificate, lines 2 and 14; in the heading and signature to the registration; and in line 1 of the statement, after "Exchange," *now by change of name Eatmor Cranberries, Inc.*, is inserted; and a new declaration wherein, among other changes, *Eatmor Cranberries, Inc., formerly* has been inserted after "of" in line 3, has been substituted for the original.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 436,546. Registered Feb. 10, 1948. Cummings-Moore Graphite Company, Detroit, Mich., a corporation of Michigan. Republished by registrant.



For Amorphous Graphite Ores, Pulverised Mexican, Ceylon, and Artificial Graphites, Flake Graphites, Mixtures or Blends of the Foregoing, and Mixtures or Blends of Graphite With Talc and Other Forms of Carbon.
Claims use since Mar. 15, 1947.

CLASS 12

CONSTRUCTION MATERIALS

Reg. No. 158,603. Registered Sept. 12, 1922. Baker Paint & Varnish Co., Jersey City, N. J., a corporation of New Jersey. Republished by registrant.

GOLD BOND

For Putty.
Claims use since the year 1916.

Reg. No. 272,870. Registered July 15, 1930. Pratt & Lambert, Inc., Buffalo, N. Y., a corporation of New York. Republished by registrant.



The drawing is lined for red, gold, and white.
For Varnishes, Paint Enamels, Lacquers, Oil-Base and Lacquer-Base Primers, Oil-Base and Lacquer-Base Surfacers, Oil-Base and Lacquer-Base Glazing and Knifing Putties, Enamel Undercoatings, Cement Undercoatings, Primers for Plaster Walls; Dry, Ready-Mixed, and Paste Paints; Water Stains, Acid Stains, Oil Stains, Benzol Stains, Japans, Liquid Fillers, Paste Fillers, Oil Driers, Japan Driers, Paint and Varnish Removers.
Claims use since May 7, 1928.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Reg. No. 272,870. Registered July 15, 1930. (Classified in Class 12.) Pratt & Lambert, Inc., Buffalo, N. Y., a corporation of New York. Republished by registrant.
The drawing is lined for red, gold, and white.
See this number in Class 12 for goods and mark.
Claims use since May 7, 1928.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 86,811. Registered June 4, 1912. Mack's Medical Co. Inc., Boston, Mass., a corporation of Massachusetts. Republished by registrant, present address Waltham, Mass.



For Medical Preparation for Over-Perspiring and Sore Feet.
Claims use since July 1, 1910.

Reg. No. 107,370. Registered Nov. 23, 1915. Ortha James Parham, Shreveport, La. Republished by registrant.

OJ'S

For Chemical Combination Used for an External Application in the Treatment of Skin Diseases Such as Pimples,

Freckles, Blackheads, Liver-Spots, Tan, Sunburn, Eczema, and Other Skin Complications.
Claims use since Sept. 1, 1909.

Reg. No. 435,060. Registered Dec. 9, 1947. Van Pelt & Brown, Inc., Richmond, Va., a corporation of Virginia. Republished by registrant.

VB

For Medicine for Use in the Treatment of Constipation; Medicine in Tablet Form for Use as a Urinary Antiseptic in the Treatment of Pyelitis, Cystitis, and Urethritis; Capsules for Use in Conditions of the Genito-Urinary Tract and Diseases of the Kidney and Bladder Caused by Such Conditions; a Liquid Analgesic; Emulsion of Mineral Oil, Agar, and Phenolphthalein; Medicine in Liquid Form for Use as a Laxative; Liquid Laxative; Preparation for Use in the Treatment of Angina Pectoris and Other Cardiovascular Ailments; Preparation for Use in the Treatment of "Secondary" or "Hypochromic" Anemia; Preparation for Use in the Treatment of Gastro-Intestinal Disorders; Preparation for Use in the Treatment of Cardiac Disorders; Urinary Antiseptic; Medicine To Be Taken Internally for Use as an Antiacid in the Treatment of Gastro-Intestinal Disturbances and Hyperacidity; Nasal Spray and Inhalant; Medicinal Preparation Used in the Treatment of Infections of the Nasal Passages; Medicinal Preparation for Use in the Treatment of Infections, Fevers and Other Conditions, and for Relieving the Toxic Effects Incident to Sulfanilamide Therapy, in the Form of Tablets Containing Sulfanilamide and Sodium Bicarbonate; Medicinal Water Dispersable Ointment Containing Sulfathiasole, Sulfanilamide and Vitamins Sold as an Ethical Preparation and Recommended for the Treatment of Burns, Wounds, Ulcers or Similar Conditions, for the Treatment of Which Local Application of Sulfa Drugs Is Indicated; Lotion for External Use in the Treatment of Scabies; Synthetic Female Hormone Tablet To Be Taken by Oral Administration; Medicinal Preparation, in Liquid and Tablet Form, Used for Increasing the Hemoglobin Content of the Blood; Vitamin Compounds; Vitamin B_1 Complex Tablets; Analgesic Tablet; and Cough Syrup.
Claims use since 1930.

Reg. No. 437,741. Registered Mar. 30, 1948. Van Pelt & Brown, Inc., Richmond, Va., a corporation of Virginia. Republished by registrant.

HYCETIN

For Analgesic Tablet.
Claims use since 1940.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 408,730. Registered Aug. 29, 1944. George Gorton Machine Co., Racine, Wis., a corporation of Wisconsin. Republished by registrant.

GORTON SPIT-FIRE

The representation of the etching electrode and the name "Gorton" are disclaimed apart from the mark as shown.
For Electric Arc Etching Machines, Single and Multiple Attachable Electric Arc Etching Heads for Pantograph and Other Machines, the Necessary Controlling Electrical Equipment for Said Machines and Heads, and Specially Designed Etching Electrodes for Said Machines and Heads.
Claims use since Apr. 15, 1942.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 317,545. Registered Sept. 25, 1934. Breese Corporations, Inc., Newark, N. J., a corporation of New Jersey. Republished by registrant.

AEROFLEX

For Accessories for Internal Combustion Engines—Namely, Flexible Conduits Complete With Couplings for Use as Fuel and Oil Lines, Air Lines, Gas Lines, and Flexible Shaft Housings.
Claims use since Oct. 17, 1927.

CLASS 27

HOROLOGICAL INSTRUMENTS

Reg. No. 35,047. Registered Sept. 18, 1900. Webster C. Ball, Cleveland, Ohio. Republished by The Ball Company, Chicago, Ill., a corporation of Ohio.

Commercial.

For Watches and Portable Clocks.
Claims use since Feb. 22, 1897.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Reg. No. 402,257. Registered July 13, 1943. James B. Shaver, doing business as Iron Lung Ventilator Company, Cleveland, Ohio. Republished by registrant.

IRON LUNG FOR INDUSTRIAL BUILDINGS

The words "For Industrial Buildings," "Iron" and the representation of the ventilator are disclaimed apart from the mark as shown.
For Gravity and Forced Draft Roof Ventilators.
Claims use since June 15, 1942.

CLASS 37

PAPER AND STATIONERY

Reg. No. 40,093. Registered Apr. 14, 1903. Mittineague Paper Co., West Springfield, Mass. Republished by Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts.

ALEXIS

For Fine Writing Paper.
Claims use since on or about Jan. 1, 1893.

Reg. No. 40,094. Registered Apr. 14, 1903. Mittineague Paper Co., West Springfield, Mass. Republished by Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts.

ALEXANDRA

For Fine Writing-Paper.
Claims use since on or about Sept. 1, 1902.

Reg. No. 264,527. Registered Nov. 26, 1929. Strathmore Paper Company, Mittineague, Mass., a corporation of Massachusetts. Republished by registrant, present address, West Springfield, Mass.

CARILLON

For Papetries, Bristol Board, Paper and Cards for Wedding, Announcement, and Greeting Purposes and Mailing Envelopes.
Claims use since Apr. 29, 1929.

Reg. No. 302,389. Registered Apr. 18, 1933. Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts. Republished by registrant.

For Writing and Printing Paper.
Claims use since June 1912.

Reg. No. 302,550. Registered Apr. 25, 1933. Strathmore Paper Company, Mittineague, Mass., a corporation of Massachusetts. Republished by registrant, present address, West Springfield, Mass.

Thistlemark

For Writing and Printing Paper.
Claims use since Dec. 2, 1932.

CLASS 39

CLOTHING

Reg. No. 409,521. Registered Oct. 10, 1944. Siegel Bros. Garment Corp., New York, N. Y. Republished by Leeds Ltd. Coats, Inc., New York, N. Y., a corporation of New York.

CLOUDTONE

For Ladies' and Misses' Coats and Suits.
Claims use since May 15, 1936.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 208,669. Registered Feb. 9, 1926. N. Fluegelman & Co., Inc., New York, N. Y., a corporation of New York. Republished by registrant.

RAYOLA

For Fabric of Silk and Cotton for Slips, Linings, Lingerie, Draperies, Fancywork, Dresses, Hats, Sport Shirts, Bed Coverings, and Table Covers.
Claims use since July 3, 1924.

Reg. No. 409,175. Registered Sept. 19, 1944. Siegel Bros. Garment Corp., New York, N. Y. Republished by Leeds Ltd. Coats, Inc., New York, N. Y., a corporation of New York.

WINTERIZED

For Woolen and Worsted Fabrics in the Piece.
Claims use since July 22, 1941.

Reg. No. 429,969. Registered June 3, 1947. Wawak Company, Inc., Chicago, Ill., a corporation of Illinois. Republished by registrant.

WYNCLIFF

For Piece Goods—Namely, Woolen Summer Suiting.
Claims use since July 2, 1936.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 37,897. Registered Mar. 4, 1902. Henry H. Ottens, Philadelphia, Pa. Republished by Henry H. Ottens Mfg. Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania.

ICILINE

For Filling for Marshmallow Goods, Meringues, Macaroons, Cream-Puffs, and Similar Articles.
Claims use since Oct. 27, 1896.

Reg. No. 38,075. Registered Apr. 8, 1902. Henry H. Ottens, Philadelphia, Pa. Republished by Henry H. Ottens Mfg. Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania.



For Icing-Powder for Cakes and Confectionery.
Claims use since Oct. 27, 1896.

Reg. No. 226,104. Registered Mar. 29, 1927. Arrow Packing Co., Exeter, Calif., a corporation of California. Republished by registrant.

Golden Arrow

For Fresh Deciduous Fruits—Namely, Plums, Pomegranates, Peaches, and Fresh Grapes.
Claims use since May 1, 1926.

Reg. No. 226,105. Registered Mar. 29, 1927. Arrow Packing Co., Exeter, Calif., a corporation of California. Republished by registrant.

Silver Arrow

For Fresh Deciduous Fruits—Namely, Plums, Pomegranates, Peaches, and Fresh Grapes.
Claims use since May 1, 1926.

Reg. No. 303,133. Registered May 9, 1933. Leadway Stores Corporation, Wilmington, Del., a corporation of Delaware. Republished by registrant, present address San Francisco, Calif.

LEADWAY

For Salad Dressing, Vinegar; Canned Vegetables—Namely, Canned Corn, Canned Tomatoes, and Canned Peas; Canned Meats—Namely, Canned Tongue and Canned Pigs Feet; Tea, Coffee, Condiments—Namely, Table Salt and Pepper; Spices, Confectionery—Namely, Chocolate Bars and Packaged Hard Candies; Corn Starch, Canned Soup, Packaged Macaroni, Spaghetti, Noodles, Canned Spaghetti, Rice, Mince Meat, Jell Powder—Namely, Powdered Gelatine; Packaged Cod Fish, Evaporated and Dried Fruits, Prepared Cocoanut, Cake Flour, Pancake Flour, Canned Mushrooms, Canned Malt Syrup, Fruit Flavoring for Food Purposes, Chocolate, Cocoa, Syrup—Namely, Corn Syrup; Flavoring Extracts for Foods; Pickles, Canned Fish, Canned Olives; Canned Evaporated and Powdered Milk, Packaged Cereal—Namely, Cereal Breakfast Food; Packaged Sugar, Cheese, Fruit Jelly, Fruit Preserves, Butter, Oleomargarine, Eggs, Bread, Pastry Flour, Honey, Peanut Butter, Olive Oil, Salad Oil, Tapioca, Apple Butter, Bird Seed, Salted Peanuts, Prepared Mustard, Salad Mustard, Mayonnaise Dressing, Relish Spread.
Claims use since Nov. 10, 1932.

Reg. No. 309,855. Registered Feb. 6, 1934. Chitty & Co., Jacksonville, Fla., a corporation of Florida. Republished by registrant.



For Coffee, Canned Vegetables, Canned Fruits, Canned Oysters, and Canned Fish, Jellies, Peanut Butter, Tea, Berry Preserves and Fruit Preserves.
Claims use since Oct. 1, 1912.

Reg. No. 437,699. Registered Mar. 30, 1948. American Laboratories Incorporated, Richmond, Va., a corporation of Virginia. Republished by registrant.



For Imitation Food Flavorings Comprising Compounds of Vanillin, Coumarin, Citral, Traces of Lemon Oil, and Vanilla Extract.
Claims use since Apr. 10, 1919.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 261,353. Registered Sept. 17, 1929. Myrurgia, S. A., Barcelona, Spain, a corporation organized under the laws of Spain. Republished by registrant.

Maderas de Oriente

For Perfumes, Perfume Essences, Toilet Water, Face Powder, Talcum Powder, Face Creams, Rouge, Lipsticks, Sachets, Brilliantine, Bath Salts.
Claims use since March 1920.

Reg. No. 317,830. Registered Oct. 9, 1934. Arthur J. Hettel, Rochester, N. Y. Republished by Mayme J. Hettel, Rochester, N. Y.



For Hardening Powder, Mortuary Powder, Drying Powder, Massage Cream and Massage Lotion, and Hair and Skin Cleanser, the Said Products Being for Use by Undertakers.
Claims use since Jan. 1, 1930.

Reg. No. 399,249. Registered Dec. 22, 1942. Firmenich & Co., New York, N. Y. Republished by Myrurgia, S. A., Barcelona, Spain, a corporation under the laws of Spain.

INSINUATION

For Soaps and Shaving Creams.
Claims use since Nov. 5, 1941.

Reg. No. 300,250. Registered Dec. 22, 1942. Firmenich & Co., New York, N. Y. Republished by Myrurgia, S. A., Barcelona, Spain, a corporation under the laws of Spain.

INSINUATION

For Sachets, Bath Salts, Lipsticks, Perfumes, Toilet Waters, Face Powders.
Claims use since Nov. 5, 1941.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 65,194. Registered Sept. 10, 1907. The Brown Soap Co., Columbus, Ohio. Republished by The Climalene Company, Canton, Ohio, a corporation of Ohio.

Skidoo

For Soap.
Claims use since Jan. 1, 1906.

Reg. No. 272,870. Registered July 15, 1930. (Classified in Class 12.) Pratt & Lambert, Inc., Buffalo, N. Y., a corporation of New York. Republished by registrant. The drawing is lined for red, gold, and white.
See this number in Class 12 for goods and mark.
Claims use since May 7, 1928.

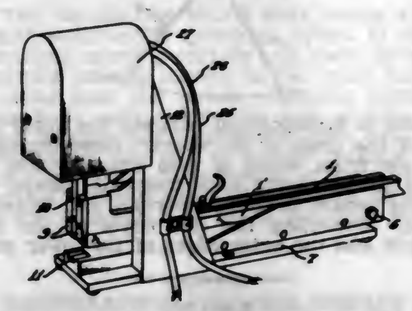
Reg. No. 399,249. Registered Dec. 22, 1942. (Classified in Class 51.) Firmenich & Co., New York, N. Y. Republished by Myrurgia, S. A., Barcelona, Spain, a corporation under the laws of Spain.
See this number in Class 51 for goods and mark.
Claims use since Nov. 5, 1941.

PATENTS

GRANTED SEPTEMBER 15, 1953

GENERAL AND MECHANICAL

2,651,775
ELECTRICAL STAPLER
Travis M. Sasser, Terrace Park, Ohio, assignor to Shipping Room Suppliers, Inc., Cincinnati, Ohio, a corporation of Ohio
Application April 19, 1950, Serial No. 156,787
4 Claims. (Cl. 1—3)



1. In a stapler, a staple feeding track terminating in a head, a staple driving blade reciprocably mounted in guides affixed to the face of the head and having its working end positioned over a clinching anvil for driving and clinching a staple, the other end of the blade carrying a block having parallel sides and a top surface transversed by a channel joining the parallel sides, said block being positioned above the head and urged upwardly therefrom by a spring, driving means for said blade comprising an armature slidably but nonrotatably mounted within an electric solenoid, said armature having two parallel downwardly projecting straps joined by a cross member spaced from their ends, said strap ends embracing the parallel sides of the block and the cross member positioned within the channel so as to steady the block and blade when the solenoid is energized and the armature forces the block and blade downwardly against the anvil.

2,651,776
HAND SHIELD
John L. Beatty, Milwaukee, Wis.
Application March 31, 1950, Serial No. 153,153
2 Claims. (Cl. 2—16)



1. A hand shield comprising a substantially circular body portion of asbestos adapted to cover the back of the hand having a rounded inlet opening from an edge thereof, a tab of the same material on either side of said inlet opening subjoined to said body portion to form stalls to accommodate the thumb and forefinger, a felt backing for the under side of the body portion, and similar felt backings on the upper sides of said tabs, and an integral arm shield extension on said body portion opposite said inlet opening.

2,651,777
PANTY GIRDLE
Asher J. Fox, Philadelphia, Pa., assignor to Caryl Leslie Creations, Philadelphia, Pa., a partnership
Application November 1, 1951, Serial No. 254,393
7 Claims. (Cl. 2—37)

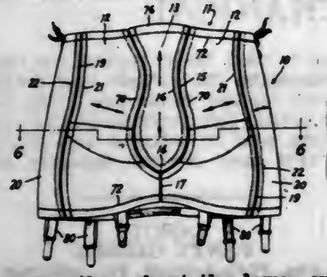


1. In a foundation garment of the panty girdle type, an upper elastic front panel having horizontally stretchable yarns and relatively non-stretchable vertical yarns, an upper elastic rear panel having horizontally stretchable yarns and relatively non-stretchable vertical yarns, a lower front panel of knitted tricot fabric secured to the front elastic panel, a lower rear panel of knitted tricot fabric secured to the rear elastic panel, said front and rear lower panels having stitches stretchable horizontally but relatively non-stretchable vertically, said front and rear upper panels and front and rear lower panels being secured together along their respective opposite side edges with the front upper and lower panels and the rear upper and lower panels, respectively, in vertical alignment with one another, and a continuous seam of horizontally stretchable overlock stitches connecting the upper and lower panels and encircling the garment, said seam in the portion between the upper and lower rear panels being located substantially between the hollow of the wearer's back and the buttocks and in the portion between the upper and lower front panels being located to substantially register with the top of the wearer's pelvic region.

2,651,778
MATERNITY GIRDLE
Beatrice Wohlman, New York, N. Y.
Application December 1, 1949, Serial No. 130,479
8 Claims. (Cl. 2—41)

1. A girdle comprising a front section consisting of one piece side panels stretchable transversely, and an intermediate one piece panel having its upper end even with upper ends of the side panels and its lower end spaced upwardly

from lower ends of the side panels, said intermediate panel being stretchable up and down and being gradually reduced in width from its upper end for a portion of its length and then gradually increasing in width downwardly and forming a widened lower portion having a tapered lower end, said side panels having reversely curved inner side edges sewed to side edges of the intermediate panel and extending



towards each other about the lower end of the intermediate panel and terminating in vertical edges sewed together between the lower end of the intermediate panel and the lower end of the front section, side sections stretchable transversely and having front side edges sewed to outer side edges of the side panels of said front section, and a rear section stretchable up and down and having side edges sewed to rear side edges of the side sections.

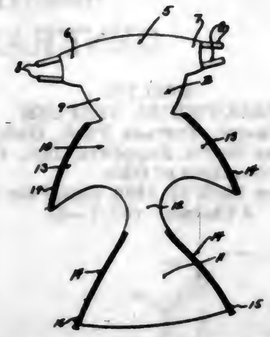
2,651,779
BRASSIÈRE HAVING CUPS MADE FROM ELASTIC MATERIAL
Theo B. Schaumer, Los Angeles, Calif.
Application May 16, 1949, Serial No. 93,521
3 Claims. (Cl. 2—42)



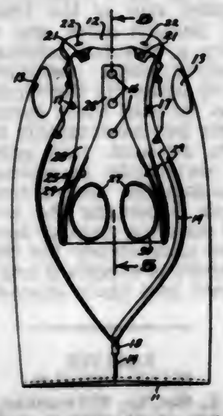
1. In a brassière: a body encircling portion; and breast cups attached thereto; each breast cup being made from a plurality of sections joined together, each of said sections being made from material having threads that are elastic in the direction from the base of the cup to the apex of the cup so that the cup is substantially uniformly resilient around the entire cup in a direction from the base of the cup to the apex of the cup the joining between sections being such as to permit stretching of the cup sections along said joining; each cup section being furthermore provided with a plurality of spaced rows of stitching transverse to the said direction.

2,651,780
ONE-PIECE BATHING SUIT
Naomi L. Miller, Rochelle, Ill., assignor of thirty-three and one-third per cent to Norine Shewalter, Madison, and thirty-three and one-third per cent to James D. Sammarco, Milwaukee, Wis.
Application February 15, 1951, Serial No. 211,079
1 Claim. (Cl. 2—67)

A one piece garment formed from a single blank of material, comprising a pair of trunks and an upper chest portion, including front and rear portions and an integral connecting narrow crotch portion, said rear portion including lower wings foldable over the sides of the wearer and terminating adjacent the front of the abdomen and upper wings foldable over the chest of the wearer, said upper wings having front edges terminating in juxtaposition adjacent the upper middle of the chest of the wearer, fastening means for the front edges of said upper wings, said front portion being of a triangular shape narrowing toward the crotch portion, and releasable means connecting the side edges of the front portion and the outer edges of the lower wings.

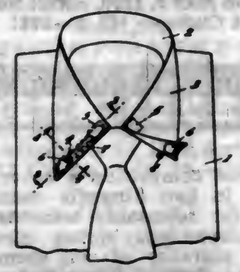


2,651,781
SLEEPING GARMENT FOR INFANTS
Georgia E. Buchholz, San Francisco, Calif.
Application April 26, 1949, Serial No. 89,613
3 Claims. (Cl. 2—69.5)



1. An infant's sleeping garment comprising a supporting undergarment, said undergarment extending from the rear of the shoulders of the infant, down under the crotch defining leg openings and up to the chest, first fastening elements on said undergarment over the chest, second fastening elements at each shoulder of said undergarment, a sleeping bag having a central opening extending down the front, third fastening elements on said bag over the chest and fourth fastening elements on said bag at each shoulder, said third and fourth fastening elements cooperable with said first and second fastening elements to permit attachment of said undergarment to said sleeping bag interiorly thereof, the crotch portion of said garment located approximately midway between the top and bottom extremities of the sleeping bag.

2,651,782
COLLAR RETAINING DEVICE
Michael Oulouhojian, Upper Darby, Pa.
Application May 21, 1952, Serial No. 289,140
2 Claims. (Cl. 2—133)
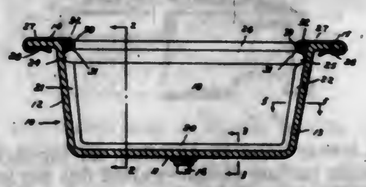


1. The combination with a shirt having a collar with downwardly diverging points, of upper downwardly opening pockets and lower upwardly opening pockets secured to the inner face of the collar near the points, retaining members having their ends received in said pockets and having longitudinally extending slots with enlargements at one end to receive buttons, and buttons fixed to the body portion of the shirt and insertable through said enlargements to overhang the slots and hold down the collar points.

2,651,783
RESTORATION SURGICAL BREAST
Mildred A. Wright and Dora E. Gates, Bevier, Mo.
Original application November 22, 1949, Serial No. 128,974. Divided and this application November 22, 1950, Serial No. 197,104
2 Claims. (Cl. 2—1)



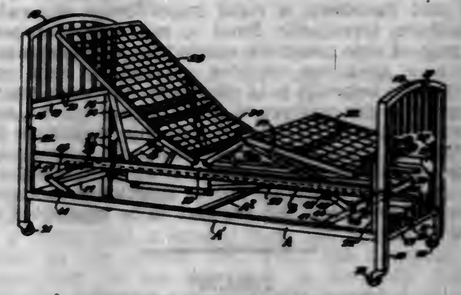
2. In an artificial breast having the configuration of a woman's breast that has been removed, a rubber outer casing having a nipple projecting from the front thereof, a rubber back member secured to the rear of said casing, said back member being cut away so as to compensate for scars and the like on the woman's body, and ground sponge rubber arranged in said casing, said breast being waterproof and flexible.

2,651,784
REMOVABLE SINK DIVIDING PARTITION
Leonard G. Johnson and Charles S. Johnson, Springfield, Oreg.
Application October 29, 1951, Serial No. 253,633
4 Claims. (Cl. 4—188)



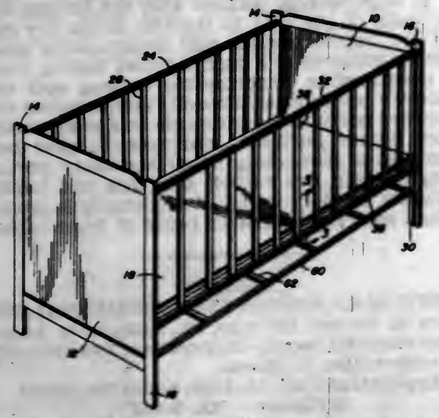
1. A partition for compartmentalizing a sink or the like having fluid impermeable bottom and side and end walls, said partition comprising an impermeable plane member and means for removably securing said impermeable plane member in a vertical plane transversely in the sink with the bottom and side edges of the plane member in impermeable contact with the bottom and side walls of the sink to thereby divide the sink into two compartments, said impermeable plane member comprising a rigid member having readily compressible impermeable bottom and side boundary portions, said readily compressible side boundary portions merging into less compressible upper corner portions, said upper corner portions and a connecting upper boundary portion being of hard live rubber, said side and bottom boundary portions being of impermeable sponge rubber, said rigid member being of hard rubber.

2,651,785
VERTICALLY ADJUSTABLE SEGMENTAL BED
Harry M. Berner, Chicago, Ill., assignor to American Hospital Supply Corporation, Evanston, Ill., a corporation of Illinois
Application June 10, 1948, Serial No. 32,107
2 Claims. (Cl. 5—63)



2. In a hospital bed structure, a bed frame having corner posts, a spring frame mounted for vertical movement upon said bed frame, adjustable segmental spring sections mounted upon said spring frame, means for raising and lowering said spring frame independently of the adjustment of said segmental spring sections comprising a floating transverse cross bar adjacent each end of said spring frame, each of said cross bars being mounted below said spring frame and having a threaded opening therethrough, a link arm pivotally connected at one end to each end of each cross bar and being pivotally connected at its other end to said spring frame, a second link arm pivotally connected at one end to each end of each cross bar and being pivotally connected at its other end to said bed frame, a handle-equipped rod having threaded portions rotatably engaging the threaded openings of said cross bars, said threads being disposed so that said rod is selectively rotatable to raise and lower said spring frame, and means for guiding said spring frame for vertical movement upon said bed frame, said means for guiding the spring frame comprising a vertical track member rigidly secured to each of said corner posts, said track members having side walls defining a substantially enclosed track for receiving a rotatably-mounted roller, one side wall of each track member having a longitudinally-extending slot therein adapted to receive a roller shaft, and a roller shaft rigidly mounted at each corner of said spring frame in alignment with said slots and equipped with a rotatably-mounted roller received within the adjacent track member.

2,651,786
COMBINATION CRIB AND PLAYPEN
John Jay Field, Pocatello, Idaho
Application May 27, 1948, Serial No. 29,602
7 Claims. (Cl. 5—93)



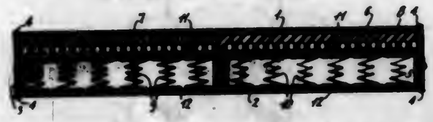
1. In a combination crib and play pen, a pair of end members, a rigid imperforate elongated platform terminally fixed to said end members, a pair of side members carried by said end members, a mattress support pivoted to said end members beneath said platform and coextensive therewith for downward swinging movement, and means carried by one of the side members for retaining the support in a raised and locked position and spaced sufficiently from said platform to permit a mattress to be positioned between the platform and the support to be supported on the latter.

2,651,787
FOLDABLE BED FRAME
James Pilliero, Asteria, N. Y., assignor to The Englander Company, Inc., Chicago, Ill., a corporation of Delaware
Application March 16, 1951, Serial No. 215,937
6 Claims. (Cl. 5—152)



1. In a foldable bed frame, end frame sections having leg members pivoted to the opposite sides thereof, an intermediate frame section pivoted to the end sections, pivotally connected crossed legs supporting said intermediate section at each side thereof and connected therewith for movement of the intermediate section from bed forming relation to a collapsed relation with the intermediate section arranged at a lower level, links connected to the crossed legs and to the end sections respectively for collapsing the crossed legs to lowered relation for lowering the intermediate frame section with the swinging of the end sections to upwardly extending relation, longitudinally extending members adapted to engage a supporting surface at each side of the intermediate frame section, said members having longitudinally extending guide slots, and means at the lower ends of said crossed legs slidably engaging said guide slots to connect the crossed legs with said members for movement of the lower ends of the crossed legs longitudinally of the slots with the collapsing of the crossed legs to said lowered relation.

2,651,788
MATTRESS
David F. Forwood, Taylor, Tex., assignor to Taylor Bedding Manufacturing Co., Taylor, Tex., a corporation of Texas
Application May 9, 1950, Serial No. 160,850
4 Claims. (Cl. 5—352)



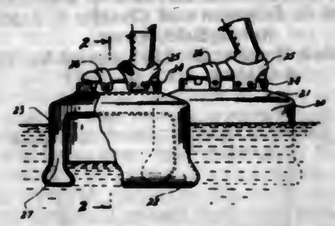
3. A mattress comprising a cover of the box type formed in two hingedly connected parts with means for releasably securing said parts and two independent spring elements each formed of a plurality of coil springs, the coil springs in one element being stiffer than those in the other, the said spring elements combined being coextensive with the cover and separated on a line extending from head to foot of the mattress.

2,651,789
LIFE LINE FOR BOATS
Isaac A. Newland, Duluth, Minn.
Application September 12, 1952, Serial No. 309,223
2 Claims. (Cl. 9—1)



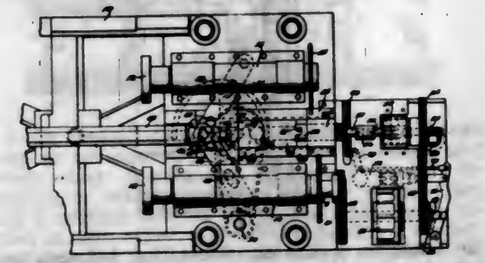
1. A life line for small boats having a gunwale on the upper edge of their sides comprising a spring metal clip for engagement around said gunwale, and members on said clip for gripping said sides, said clip having a pair of openings therethrough, one of said openings being close to one of said end members, the other of said openings being a slot diametrically opposite from said end members, and a flexible cord extending through said openings within said clip between said openings, and means securing said cord from removal from said clip.

2,651,790
WATER SHOE
Ludwig A. Geiger, New York, N. Y., assignor to Gerald L. Geiger, Washington, D. C.
Application May 24, 1950, Serial No. 163,957
2 Claims. (Cl. 9—31)



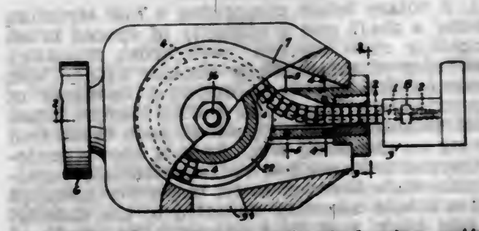
1. A water shoe comprising an air-tight hollow casing having double-walled flat top and bottom portions respectively, means for securing a foot to the top of said top portion, said bottom portion being open at the bottom and surrounding an upwardly extending central chamber closed by said top portion for entrapping air, said top portion comprising the entrapped air to maintain buoyancy as the shoe is plunged into the water.

2,651,791
FEED MECHANISM FOR NIPPLE THREADING MACHINES AND THE LIKE
George B. Marsden, Chicago, Ill., assignor to Chicago Nipple Manufacturing Company, Cicero, Ill., a corporation of Delaware
Application September 27, 1950, Serial No. 187,091
13 Claims. (Cl. 10—105)



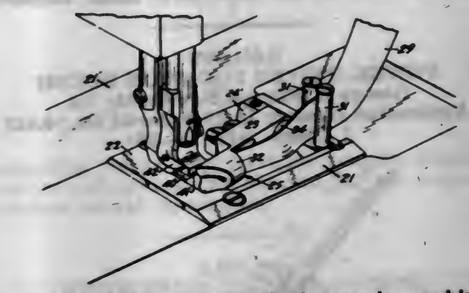
1. Feeding mechanism for nipple threading machines and the like comprising a frame, a rotatable cutting head on the frame, a carriage slidable on the frame toward and away from the head, rotatable cam device and a cam follower, one on the carriage and the other on the frame to move the carriage toward the head, the cam device having inner and outer cam surfaces engageable with the follower to shift the carriage positively toward and away from the head, the portions of the cam surfaces which register with the follower when the carriage is adjacent to the head being spaced apart farther than the thickness of the follower so that the carriage and follower can move farther toward the head, drive means intermittently to turn the cam through half revolutions, supplementary feed means effective when the cam has moved the carriage toward the head to move the carriage farther toward the head, and control means operable at the end of a threading operation to energize the drive means.

2,651,792
SUPPORT FOR TAPS
Joseph W. Gibney, Port Chester, N. Y., assignor to Russell, Burdsall & Ward Bolt and Nut Company, Port Chester, N. Y., a corporation of New York
Application April 7, 1950, Serial No. 154,616
5 Claims. (Cl. 10—129)



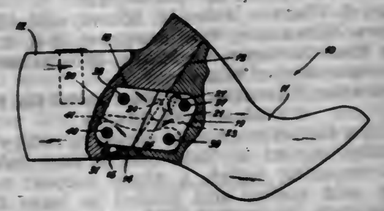
1. A tap comprising a shank having cutting threads adjacent one end, the other end of the tap forming an arc of a circle of more than 180° curved on a center lying in the longitudinal axis of the shank portion of the tap, a support for the curved portion of the tap, the support comprising a guide wheel concentric with the curved portion of the tap and having a periphery shaped to receive the curved portion of the tap and to be engaged by nuts thereon, and means for rotating the support and the tap.

2,651,793
FLOATING INNER SOLE BINDING GAUGE
William P. Tenge, St. Louis, Mo., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application March 3, 1949, Serial No. 79,416
1 Claim. (Cl. 12—24.5)



A floating gauge assembly for use in combination with a machine for applying normally tacky pressure-sensitive adhesive tape as a binding around the edges of shoe soles having a presser foot for causing adherence of the tape to the sole, the said assembly comprising a normally horizontally disposed plate member having a flat upper surface that forms a support for the sole being bound, a lug attached to the plate member at a point that is spaced from the operating position of the presser foot when the assembly is positioned in the machine, a normally horizontally disposed arm pivotally mounted at one end in the lug for oscillation of the free end of the arm upwardly and downwardly in relation to the plate member, and a gauge head attached to the free end of the arm, the gauge head having a throat shaped to receive the edge of the sole and having guide means for directing the tape into contact with the edge of the sole at the throat.

2,651,794
HINGE FOR SHOE LASTS
Clarence H. Heitman, University City, and Roy R. Niehaus, Kirkwood, Mo.; said Niehaus assignor to said Heitman
Application November 3, 1949, Serial No. 125,212
12 Claims. (Cl. 12—136)



1. A hinge for a last or the like device having relatively movable fore and aft sections, the hinge comprising forward and aft said hinge plate members for attachment in the respective sections, a link, pivot pins extending through each of the opposite ends of said link and supported respectively in said hinge members, and a lock device comprising interengaging hook mem-

bers, one member of which is carried by one of said hinge members and the other of which is carried by the other of said hinge members, the hook members being adapted to lock said fore and aft sections with each other when the device is in expanded and closed adjustment, and a spring in one of said sections bearing against the hook member of the other section to yieldably force said hook member of the other section in contact with the hook member of the section in which said spring is disposed, said spring comprising a leaf spring secured to the hook member carried by the hinge and extending therefrom in position to be engaged by the nose carried by hook of the said other hinge member.

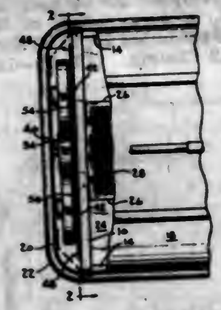
2,651,795
POWER-DRIVEN FOUNTAIN BRUSH
George H. Kilgore, New Castle, Pa.
Application January 10, 1949, Serial No. 70,018
1 Claim. (Cl. 15—39)



A power driven fountain brush comprising an elongated, tubular sectional handle including an angularly turned open end portion, a brush rotatably mounted on said end portion, a substantially flat block interposed between and secured to the handle sections and having a central opening therethrough, said block further having an endless chamber therein surrounding the opening in spaced relation thereto and communicating with the handle sections, said opening and chamber being out of communication with each other, an electric motor mounted in the opening and adapted to be cooled by fluid passing through the chamber, means operatively connecting said motor to the brush, and means for connecting the other end of the tubular handle to a source of fluid.

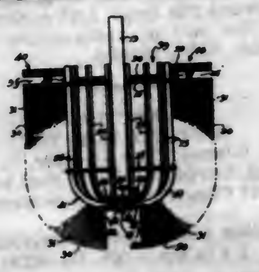
2,651,796
CARPET SWEEPER
Robert S. Wagner, John M. Himes, and Albert J. Duwe, Milwaukee, Wis., assignors to E. R. Wagner Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application November 13, 1948, Serial No. 59,792
4 Claims. (Cl. 15—48)

1. In a carpet sweeper, a casing, a rotary brush floatably carried by said casing and having a wheel-engaging pulley, a wheel support mounted on said casing and guided to have limited independent horizontal and vertical movement in a vertical plane relative to said casing, said support having on its outer end an axle for supporting a wheel and a camming surface adapted to provide an inwardly horizontally acting force upon engagement with a stop on said casing, a wheel rotatably mounted on said axle and engageable with the floor and said pulley to rotate said brush, a spring carried by said casing and engaging said support in a manner to press said wheel downwardly and inwardly of said pulley, said downward pressure being small enough to permit said casing of its own weight plus the influence of any vertically acting component of the force normally applied to said sweeper to produce horizontal motion thereof to flex said spring and move downwardly of said wheel until said casing is in contact with a floor covering, said inward pressure being sufficient



to establish a driving connection between said wheel and said pulley, and a stop on said casing having a portion adapted to engage with said camming surface to limit downward movement of said casing with respect to said wheel with the periphery of said wheel below the bottom of said casing, said portion and said surface upon engagement providing a horizontal component of force acting on said support to press said wheel inwardly toward said pulley to provide additional driving connection therebetween.

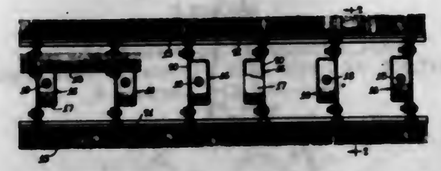
2,651,797
ROTARY BRUSH
Lee J. Rousseau, Grosse Pointe Park, Mich., assignor to Minit-Man, Inc., Detroit, Mich., a corporation of Michigan
Application September 23, 1950, Serial No. 186,445
2 Claims. (Cl. 15—183)



1. A rotary brush comprising a hub structure having a shaft and a plurality of spaced brush mounting discs thereon, each brush mounting disc being of substantially circular outline with circumferentially-spaced undercut openings of approximately rectangular outline therein, brush units mounted in said openings, each brush unit having an elongated brush back of approximately channel cross-section with substantially parallel side walls inserted in its respective openings and a bristle assembly mounted in the channel of said back, said discs adjacent the mouth of each opening having shoulders overhanging and abuttingly engaging said brush back, each brush back being substantially straight throughout the major portion of its length and having an arcuately bent portion at one end thereof directed toward the axis of said hub structure, and a

holding member secured to said hub structure and having end receiving portions adapted to receive the bent ends of said brush backs.

2,651,798
BRUSH COMPRISING BRUSH STRIPS AND HOLDER THEREFOR
William A. Lombardi, Derby, Conn.
Application May 28, 1947, Serial No. 750,928
8 Claims. (Cl. 15—183)



1. In combination, a frame member, a brush strip to be secured to said frame member, said brush strip having an elongated binder for bristles, a bracket member having a first face and a second face at an obtuse angle with respect to each other, said bracket having a binder-receiving slot in one of said faces, said slot being defined by opposed walls converging toward the opening of said slot, and securing means for clamping the other of said faces of said bracket to said frame member, said elongated binder being within said slot and held by the converging walls of said slot to said frame member.

2,651,799
BRUSH
William A. Lombardi, Derby, Conn.
Application August 1, 1947, Serial No. 765,506
23 Claims. (Cl. 15—183)



1. In a device of the character indicated, a frame having a relatively continuous smooth outer surface, a brush strip having a binding to be secured on said surface, clip means including a unitary structure with jaws embracing opposite sides of said binding, and securing means for securing said clip means to said frame, said securing means being oriented to permit effectively drawing one of said jaws toward said surface so that said jaws may effectively squeeze said binding against said surface.

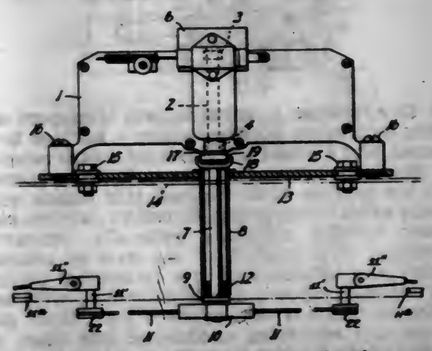
2,651,800
WINDSHIELD WIPER
Jesse R. Ficen, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 28, 1946, Serial No. 680,130
13 Claims. (Cl. 15—245)

1. In a windshield wiper assembly, an arm, an elongated yieldable member having a transverse width and being transversely rigidly connected at an intermediate point thereof to the end of said arm, a flexible wiper element having parts in longitudinal alinement and adapted to assume positions angularly related to each other jointly with the bending of said yieldable member, attaching means being secured to each of said flexible wiper element parts, U-shaped stirrups having the same transverse width as said yieldable member and having the free ends secured to said



attaching means, said yieldable member extending through and supporting said stirrups without relative lateral movement.

2,651,801
WINDSHIELD CLEANER SYSTEM
Erwin C. Herten, Hamburg, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application April 16, 1949, Serial No. 88,010
8 Claims. (Cl. 15—253)



1. A windshield cleaning system having a power unit, a wiper, a wiper actuating transmission unit, the power unit having a drive shaft, the transmission unit having a driven shaft with wiper actuating means connected to the latter, the two shafts being arranged end to end, means providing a fixed journal support for the adjacent end of one shaft about a fixed axis, a support for the remote end only of the companion shaft providing a loose journal bearing by which the unsupported adjacent end of said companion shaft may be brought substantially in axial alignment with the one shaft, and means coupling the adjacent ends of the shafts for torque transmission and for the lateral support of the adjacent end of the companion shaft.

2,651,802
ELECTRIC WINDSHIELD WIPER
Godfrey G. Kearful, Saginaw, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 10, 1946, Serial No. 675,539
19 Claims. (Cl. 15—253)

1. In windshield wiper operating mechanism, a reversible motor, reduction gearing including

bers, one member of which is carried by one of said hinge members and the other of which is carried by the other of said hinge members, the hook members being adapted to lock said fore and aft sections with each other when the device is in expanded and closed adjustment, and a spring in one of said sections bearing against the hook member of the other section to yieldably force said hook member of the other section in contact with the hook member of the section in which said spring is disposed, said spring comprising a leaf spring secured to the hook member carried by the hinge and extending therefrom in position to be engaged by the nose carried by hook of the said other hinge member.

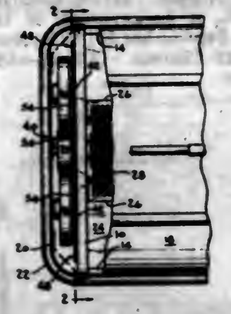
2,651,795
POWER-DRIVEN FOUNTAIN BRUSH
George H. Kilgore, New Castle, Pa.
Application January 10, 1949, Serial No. 70,018
1 Claim. (Cl. 15—39)



A power driven fountain brush comprising an elongated, tubular sectional handle including an angularly turned open end portion, a brush rotatably mounted on said end portion, a substantially flat block interposed between and secured to the handle sections and having a central opening therethrough, said block further having an endless chamber therein surrounding the opening in spaced relation thereto and communicating with the handle sections, said opening and chamber being out of communication with each other, an electric motor mounted in the opening and adapted to be cooled by fluid passing through the chamber, means operatively connecting said motor to the brush, and means for connecting the other end of the tubular handle to a source of fluid.

2,651,796
CARPET SWEEPER
Robert S. Wagner, John M. Himes, and Albert J. Duwe, Milwaukee, Wis., assignors to E. R. Wagner Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application November 13, 1948, Serial No. 59,792
4 Claims. (Cl. 15—48)

1. In a carpet sweeper, a casing, a rotary brush floatably carried by said casing and having a wheel-engaging pulley, a wheel support mounted on said casing and guided to have limited independent horizontal and vertical movement in a vertical plane relative to said casing, said support having on its outer end an axle for supporting a wheel and a camming surface adapted to provide an inwardly horizontally acting force upon engagement with a stop on said casing, a wheel rotatably mounted on said axle and engageable with the floor and said pulley to rotate said brush, a spring carried by said casing and engaging said support in a manner to press said wheel downwardly and inwardly of said pulley, said downward pressure being small enough to permit said casing of its own weight plus the influence of any vertically acting component of the force normally applied to said sweeper to produce horizontal motion thereof to flex said spring and move downwardly of said wheel until said casing is in contact with a floor covering, said inward pressure being sufficient



to establish a driving connection between said wheel and said pulley, and a stop on said casing having a portion adapted to engage with said camming surface to limit downward movement of said casing with respect to said wheel with the periphery of said wheel below the bottom of said casing, said portion and said surface upon engagement providing a horizontal component of force acting on said support to press said wheel inwardly toward said pulley to provide additional driving connection therebetween.

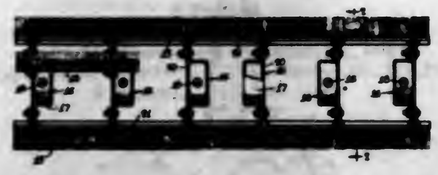
2,651,797
ROTARY BRUSH
Leo J. Rousseau, Grosse Pointe Park, Mich., assignor to Minit-Man, Inc., Detroit, Mich., a corporation of Michigan
Application September 23, 1950, Serial No. 186,445
2 Claims. (Cl. 15—183)



1. A rotary brush comprising a hub structure having a shaft and a plurality of spaced brush mounting discs thereon, each brush mounting disc being of substantially circular outline with circumferentially-spaced undercut openings of approximately rectangular outline therein, brush units mounted in said openings, each brush unit having an elongated brush back of approximately channel cross-section with substantially parallel side walls inserted in its respective openings and a bristle assembly mounted in the channel of said back, said discs adjacent the mouth of each opening having shoulders overhanging and abuttingly engaging said brush back, each brush back being substantially straight throughout the major portion of its length and having an arcuately bent portion at one end thereof directed toward the axis of said hub structure, and a

holding member secured to said hub structure and having end receiving portions adapted to receive the bent ends of said brush backs.

2,651,798
BRUSH COMPRISING BRUSH STRIPS AND HOLDER THEREFOR
William A. Lombardi, Derby, Conn.
Application May 28, 1947, Serial No. 750,928
8 Claims. (Cl. 15—183)



1. In combination, a frame member, a brush strip to be secured to said frame member, said brush strip having an elongated binder for bristles, a bracket member having a first face and a second face at an obtuse angle with respect to each other, said bracket having a binder-receiving slot in one of said faces, said slot being defined by opposed walls converging toward the opening of said slot, and securing means for clamping the other of said faces of said bracket to said frame member, said elongated binder being within said slot and held by the converging walls of said slot to said frame member.

2,651,799
BRUSH
William A. Lombardi, Derby, Conn.
Application August 1, 1947, Serial No. 765,506
23 Claims. (Cl. 15—183)



1. In a device of the character indicated, a frame having a relatively continuous smooth outer surface, a brush strip having a binding to be secured on said surface, clip means including a unitary structure with jaws embracing opposite sides of said binding, and securing means for securing said clip means to said frame, said securing means being oriented to permit effectively drawing one of said jaws toward said surface so that said jaws may effectively squeeze said binding against said surface.

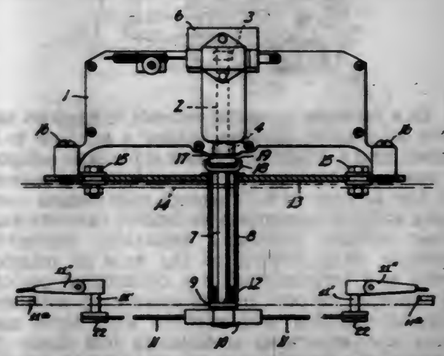
2,651,800
WINDSHIELD WIPER
Jesse R. Floon, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 28, 1946, Serial No. 680,126
12 Claims. (Cl. 15—245)

1. In a windshield wiper assembly, an arm, an elongated yieldable member having a transverse width and being transversely rigidly connected at an intermediate point thereof to the end of said arm, a flexible wiper element having parts in longitudinal alinement and adapted to assume positions angularly related to each other jointly with the bending of said yieldable member, attaching means being secured to each of said flexible wiper element parts, U-shaped stirrups having the same transverse width as said yieldable member and having the free ends secured to said



attaching means, said yieldable member extending through and supporting said stirrups without relative lateral movement.

2,651,801
WINDSHIELD CLEANER SYSTEM
Erwin C. Herten, Hamburg, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application April 16, 1949, Serial No. 88,010
8 Claims. (Cl. 15—253)

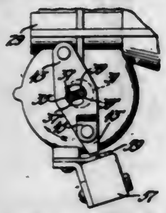


1. A windshield cleaning system having a power unit, a wiper, a wiper actuating transmission unit, the power unit having a drive shaft, the transmission unit having a driven shaft with wiper actuating means connected to the latter, the two shafts being arranged end to end, means providing a fixed journal support for the adjacent end of one shaft about a fixed axis, a support for the remote end only of the companion shaft providing a loose journal bearing by which the unsupported adjacent end of said companion shaft may be brought substantially in axial alignment with the one shaft, and means coupling the adjacent ends of the shafts for torque transmission and for the lateral support of the adjacent end of the companion shaft.

2,651,802
ELECTRIC WINDSHIELD WIPER
Godfrey G. Kearful, Saginaw, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 10, 1946, Serial No. 675,539
19 Claims. (Cl. 15—253)

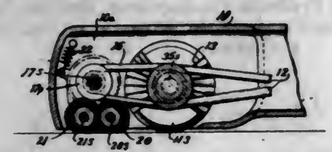
1. In windshield wiper operating mechanism, a reversible motor, reduction gearing including

a slow speed gear rotated by said motor, a shaft driven by said slow speed gear, a crank carried by said shaft, said crank having a backlash connection with said shaft consisting of an eccentric cam surface with abutment means at both ends on one and cooperating cam and abutment en-



gaging means on the other whereby reversal of said motor and gearing changes the radial projection of said crank, a rockshaft having a lever arm and a link between said lever arm and said crank and means associated with said rockshaft to oscillate a wiper arm.

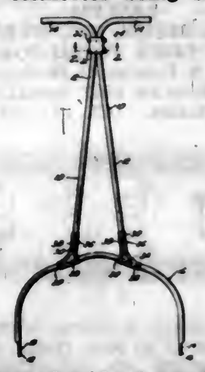
2,651,803
PICKUP BRUSHES FOR SWEEPERS
James H. Browne, Lisbon, Ohio
Application February 16, 1949, Serial No. 76,797
6 Claims. (Cl. 15—373)



5. In a sweeper, a casing, wheels to support said casing at a given distance above a surface to be cleaned, and a dual rotary pick up means adapted for generally tangentially sweeping engagement with the surface to be cleaned, said means comprising at least two rotatable bristle carriers each having bristles radiating generally outwardly therefrom with respect to the axis of rotation thereof and terminating in a cylindrical peripheral contour, support means connected with said casing to position said carriers with their axes spaced and separated a distance less than the lengths of the bristles respectively of said carriers to deeply intermingle the bristles of said carriers within the tangential zone located between said two carriers, said supporting means being located and arranged in relation to said casing to position said carriers at such a distance from the surface to be cleaned so as to cause flexing and surface dispersion of said bristles against said surface and along the tangential zone of said carrier bristle portions located adjacent said surface, and actuating means connected with said carriers to rotate the carriers in opposite directions with respect to each other and to move the bristles of said carriers toward each other along the surface being cleaned and away from such surface through the zone between said carriers.

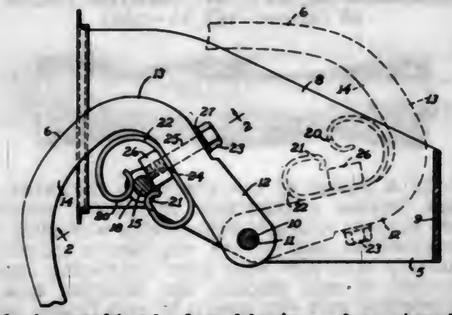
2,651,804
MOWER HANDLE
Ellsworth D. Wilkin, Ottumwa, Iowa, assignor to Johnston Lawn Mower Corporation, Ottumwa, Iowa, a corporation of Iowa
Application August 26, 1950, Serial No. 181,660
1 Claim. (Cl. 16—111)

In a handle-to-mower connection of the character disclosed, a yoke having a pair of angular portions, and means for connecting diverged ends of handle members to said angular portions of said yoke, comprising handle-to-yoke connectors having arms at obtuse angles to each other, one arm of each connector being secured to said



angular portions of said yoke and the other arm thereof being detachably secured to said handle members, said last arms having key and slot connections with said handle members to resist torsional movement of the handle members relative to said connectors.

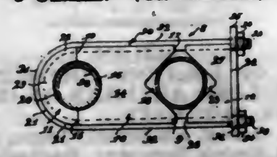
2,651,805
AUTOMOBILE DOOR HINGE
Ray A. Laible, Freeport, Ill., assignor of one-half to Hennecy Motor Company, Inc., Freeport, Ill., a corporation of New York
Application August 14, 1948, Serial No. 44,359
4 Claims. (Cl. 16—135)



1. A combined door-hinging, door-stopping, and door-holding device comprising a stationary outer hinge member of generally U-shaped form for mounting in a door supporting structure, an inner hinge member of gooseneck form attachable to a door and pivoted at its gooseneck end by a pintle between the arms of the U-shaped outer hinge member, a generally U-shaped leaf spring disposed with both arms of its U in the longitudinal plane of the gooseneck and fastened by its cross-portion to one side of the gooseneck in radially spaced relation to the pintle with the arms of the U-spring in part extending forwardly from the gooseneck in the direction of door opening movement, the outer end portions of the arms of the U-spring being formed to define with respect to a narrow throat in the open end of the U-spring opposed outwardly diverging walls and opposed inwardly diverging walls, and a cooperating striker fixedly mounted between the arms of the U-shaped outer hinge member in the path of swinging movement and at what corresponds to the open position of the gooseneck, said striker being of a width slightly greater than that of

the narrow throat defined in the open end of said U-spring and arranged to have wedging engagement between said outwardly diverging walls in the opening of the door so as to spread the arms of said U-spring apart for a door checking action, said striker after passing through the throat having abutment within the U-spring positively to limit door opening movement and having contact with the inwardly diverging walls so as to hold the door open.

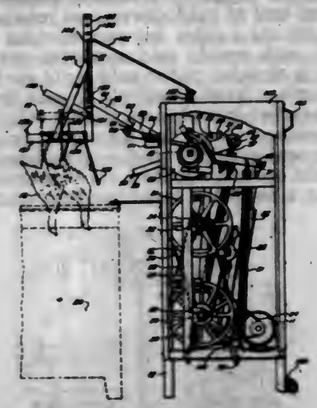
2,651,806
ADJUSTABLE GATE HINGE
John M. Thompson, Manchester, Iowa
Application October 10, 1951, Serial No. 250,710
5 Claims. (Cl. 16—158)



5. An elongated gate hinge comprising an intermediate section, a first end section and a second end section, said sections being disposed in end-to-end relationship when assembled, fastening means surrounding the remote ends and the side edges of the hinge sections and adjustable for urging the sections thereof toward one another endwise of the gate hinge, and the adjacent end of the intermediate section and first end section being recessed to define an opening adapted to loosely engage an upright supporting member around which the gate hinge is adapted to swing in a horizontal plane about the supporting member as an axis, said intermediate section and second end section having adjacent ends normally disposed in spaced end-to-end relationship and having complementary opposed recesses each forming a plurality of jaw faces between which an upright end portion of a gate is adapted to be clamped by tightening of said fastening means for securing the gate end to the hinge and for swingably supporting the gate for swinging movement with the hinge relatively to the upright gate supporting member.

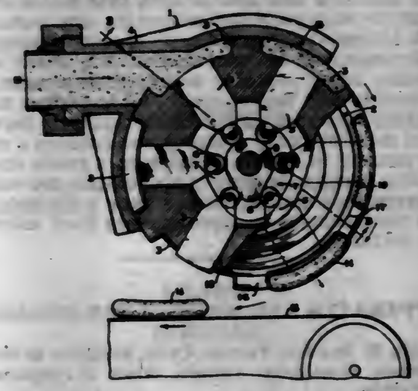
2,651,807
POULTRY SCALDING APPARATUS
Robert D. Pitts, Cedar Rapids, Iowa, assignor to Pickwick Company, Cedar Rapids, Iowa, a corporation of Iowa
Application December 1, 1949, Serial No. 130,379
5 Claims. (Cl. 17—11.3)

1. In a poultry scalding apparatus, a tank for scalding fluid, a supporting member positioned adjacent said tank, a lever pivotally mounted on said supporting member and extending over said tank, a poultry supporting shackle mounted on said lever and positioned in said tank, said lever being pivotal about an axis normal to the longitudinal axis of said lever extending between said supporting member and said tank, a second lever pivotally mounted on said supporting member and positioned adjacent said first named lever, power means operably associated with said second named lever for continuously reciprocally pivoting said second named lever in a vertical plane, interlocking means mounted on one of said levers for interlocking said levers in engagement, and a releasing means operably associated with said interlocking means for releasing said interlocking means to disengage said levers whereby said first named lever may be released from engagement with said second named lever and moved to a position above said



tank with said poultry supporting shackle withdrawn therefrom.

2,651,808
SAUSAGE LINK FORMING MACHINE
Alexander H. Burnett, Chicago, and James J. Prohaska, La Grange, Ill., assignors to Swift & Company, Chicago, Ill., a corporation of Illinois
Application September 26, 1949, Serial No. 117,858
6 Claims. (Cl. 17—34)

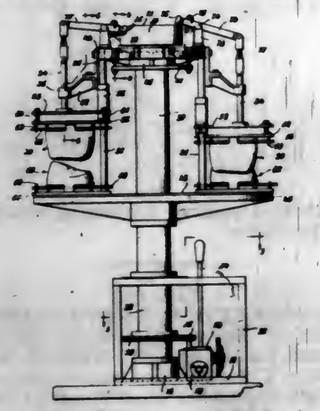


1. In a sausage link forming machine, the combination comprising: a narrow supporting surface having a recessed portion defining a pocket therein; a narrow ejector member mounted in said pocket and adapted to move outwardly therefrom; and a pair of abutments on said supporting surface at either side of the recessed portion thereof, said abutments being substantially wider than said supporting surface and ejector member.

2,651,809
SHOULDER PAD MOLDING APPARATUS
Berthold Mechur and Walter Riedler, New York, N. Y.
Application September 21, 1948, Serial No. 50,324
2 Claims. (Cl. 18—30)

1. Molding apparatus comprising, in combination, a base; a column extending substantially centrally from said base; a sleeve embracing said column and rotatable thereon; said column extending beyond said sleeve at each end; means for rotating said sleeve; a first support fixed to said sleeve intermediate its ends and rotatable

therewith; a plurality of pressure molds carried by said first support; a second support fixed to the upper end of said sleeve and rotatable therewith; vertical guides interconnecting said supports at each mold; said supports carrying said molds in a circular path; said mold each comprising a member fixed relatively to said first support and a member movable vertically relative to said fixed member along the adjacent guide; a cam fixed on said column; and cam followers mounted on said second support, each operatively connected to a movable mold member and engaging



said cam and effective to open said molds at one point in said path for unloading and reloading and to maintain said molds closed throughout the remainder of said path; said fixed mold member being rockably mounted on a radial rod secured to said first support and including means limiting such rocking movement and said movable mold member being rockably mounted on a radial rod secured to a plate slidable on a guide and including means limiting such rocking movement, whereby said mold members have a limited relative displacement to accommodate their interfacing surfaces.

2,651,811

PROCESS OF SOLVENT POLISHING-INJECTION MOLDED ARTICLES OF CELLULOSE ACETATE-BUTYRATE

Charles H. Coney, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application June 23, 1951, Serial No. 233,254
3 Claims. (Cl. 18—48)

1. A process of polishing injection molded cellulose acetate-butyrate articles, which consists in softening the surface of the article by immersing it in a solvent mixture consisting of 50–45% of isopropyl alcohol and 50–55% of a hydrocarbon selected from the group consisting of toluene and xylene for a period of from 10 to 20 minutes, removing the article from the solvent mixture, and allowing it to dry.

2,651,812

COTTON TURBO-CLEANER PROCESS

David G. Black, Pataskala, Ohio, assignor, by mesne assignments, to the United States of America as represented by the Secretary of Agriculture

Application August 11, 1950, Serial No. 180,230
2 Claims. (Cl. 19—72)



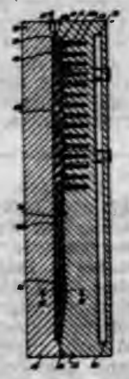
1. A process of cleaning seed cotton employing differential motion of air jets and cotton tufts, comprising: introducing the cotton tufts into an annular air zone; therein impinging the tufts with high velocity jets of air that are under pressure, have a diameter less than that of the tufts, are disposed at an angle to the diameter of the annular zone, and are directed toward and along the periphery of said zone; permitting the tufts to descend under gravity in said air zone as they are repeatedly impinged by said air jets, thereby causing the tufts to circle down through the annular zone; the foreign matter in the tufts being disentangled and disengaged from the tufts by the air jets and being forced to the outer periphery of said zone; and skimming off the foreign matter therefrom at the outer periphery.

2,651,810

APPARATUS AND METHOD FOR MOLDING BRUSHES

Austin B. Snyder, Toledo, Ohio, assignor to Owens Brush Company, Toledo, Ohio, a corporation of Ohio

Application July 10, 1952, Serial No. 298,674
28 Claims. (Cl. 18—42)



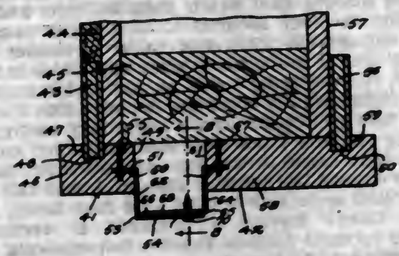
13. An injection molding assembly for molding an integral plastic article having a body and a plurality of spaced slender round-tipped fingers extending from a face thereof, which comprises a plurality of relatively movable mold elements adapted to open and close and to define in closed position a suitable mold cavity for the article, one of such elements having unvented finger-forming holes on the cavity face thereof said holes each having a first portion near the cavity mouth of substantially uniform diameter of 0.06–0.1 inch and a depth of ⅛ to ⅜ inch and having a second portion inward from the first and closed at its inner end, the second portion having a substantially uniform diameter of 0.04–0.08 inch and a depth of ¼ to ¾ inch, and said elements defining air-bleed vents at contiguous faces thereof in closed position in communication with said mold cavity.

2,651,813

ADJUSTABLE DOOR BUCK AND TRIM

Alfonso Alvarez, Jr., Upper Montclair, N. J.

Application October 15, 1951, Serial No. 251,299
3 Claims. (Cl. 20—11)



1. An adjustable door buck and trim construction for a door or other opening, said construction comprising a pair of longitudinal vertical members, a first of said members having a first wood portion extending inwardly and adapted to form a trim for one side of the wall adjacent the door opening, a second wood portion extending laterally from the inner edge of the first portion and perpendicular thereto, a third portion of metal extending inwardly from the second portion and parallel to the first portion, and a fourth metal portion extending laterally from the inner edge of the third portion and integral therewith and in the same direction as and parallel to the second portion, the second of said members having a first wood section extending inwardly and spaced from and parallel to said first portion and adapted to form a trim for the other side of said wall, a second wood section extending laterally from the inner edge of the first section and towards the first portion, a third section of metal extending inwardly from said second section and parallel to said third portion, and a fourth section integral with said third section extending parallel to and in slidable abutting relation against said fourth portion of the first member, said third and fourth portions and sections forming a door stop, said members being relatively movable laterally toward or away from each other to various relative positions so as to adjust for various wall thicknesses, and selectable means for fixedly securing said fourth portion with respect to said fourth section so as to maintain said members in fixed position with respect to each other in any selected one of said various relative positions.

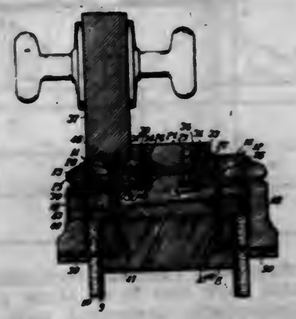
2,651,814

DOORFRAME

Lawson L. Lester, Jr., Martinsville, Va.

Application May 22, 1952, Serial No. 289,327
7 Claims. (Cl. 20—11)

1. A prefabricated door frame adapted to be inserted in an opening in a wall, said door frame including a jamb structure comprising two longitudinal sections, each section composed of side strips and a top strip, the top strip being secured at its ends to the upper ends of the side strips, means for connecting the sections together including a longitudinal groove in the inner edge of each jamb section thus forming a pair of laterally spaced tongues, intermediate longitudinal side and transverse top strip members interposed lengthwise between the side and top strips respectively of the jamb sections and each having a longitudinal groove in each edge thereof thus forming a pair of laterally spaced tongues, the tongues of each of the intermediate strip members that will be nearest the wall of the opening when the frame is applied thereto being adapted to fit into the grooves in the inner edges of the jamb sections, and the tongues of the jamb sections that will be farthest from the wall of the opening being formed to fit into the longitudinal grooves in the edges of the intermediate strip members, the tongues on one edge of the intermediate strip members that will be farthest from the wall of the opening forming a door stop, fastening members extending transversely of one of



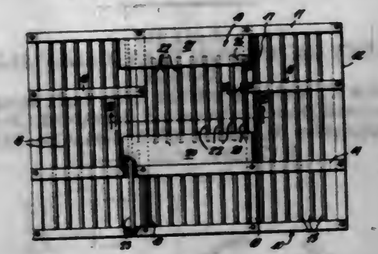
the jamb sections intermediate the edges thereof permanently securing the tongues on one edge of the intermediate strip members to the tongues on one of the jamb sections for movement of the intermediate strip members with said last mentioned jamb section into position into a wall opening, fastening members for securing the tongues of the other jamb section to the tongues on the adjoining edges of the intermediate strip members, and facings secured at the outer edges of the jamb sections.

2,651,815

CHICKEN COOP

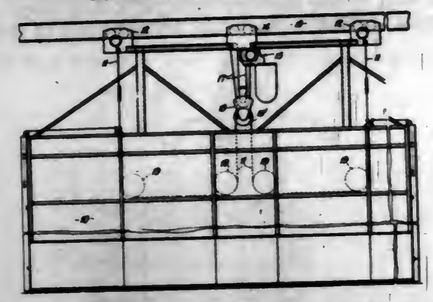
Eugene W. Ayler, Brightwood, Va.

Application June 19, 1952, Serial No. 294,340
5 Claims. (Cl. 20—16)



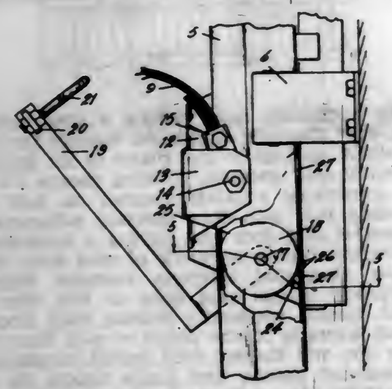
1. In a chicken coop having a door opening and a door pivotally supported therein for rotation about an axis in the plane of an adjacent one end of said opening, latching means for said door comprising a catch member on said coop projecting into said door opening adjacent the free end of said door and having a latching recess therein facing inwardly of said door opening, an elongated latching element disposed transversely across said door at the free end thereof, means resiliently biasing said latching element laterally in the plane of said door relative to one end thereof into seated condition in said latching recess, and guide means on said door having cam surfaces inclined to the plane of said door to engage said latching element and translate upward and downward forces thereon into movement on said latching element away from and toward said recess respectively.

2,651,816
SLIDING DOOR
Arthur Thomas Charles Burrows, Hitchin, England, assignor to Geo. W. King Limited, Hitchin, England, a British company
Application June 21, 1950, Serial No. 169,459
In Great Britain June 7, 1949
10 Claims. (Cl. 20—19)



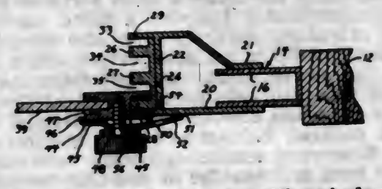
1. A sliding door assembly comprising a rigid door slidable back and forth along a predetermined substantially horizontal path into and out of a position wherein it is adapted to close a door opening; sealing mechanism for displacing said door transversely of said path into and out of sealing engagement with the door opening and including brackets fixedly mounted at either side of the door opening, and latch elements pivotally mounted at the leading and trailing edges of the door and movable between inoperative positions wherein they are retracted behind the plane of the door face and operative positions wherein they project beyond said door face and engage the brackets; means for lifting and lowering said door through a predetermined vertical distance; and means actuated by said lifting and lowering means and operating in response to the vertical movement applied to the door to effect retraction and projection of said latch elements from and into their operative positions.

2,651,817
SAFETY CATCH FOR VERTICALLY SLIDING DOORS
Charles C. Meier, Hartford City, Ind., assignor to Overhead Door Corporation, Hartford City, Ind.
Application August 18, 1950, Serial No. 180,269
5 Claims. (Cl. 20—19)



2. Safety catch mechanism for a vertically slidable door having a channel shaped guide rail along the side thereof and a lifting and sustaining cable secured to the bottom thereof, said mechanism comprising a rotatable catch member mounted on said door and projecting into the channel of said rail, said catch member having a projecting portion thereon rotatable into wedging engagement with a flange of said rail, spring means biasing said catch member into wedging position, a lever secured to said catch member and engageable with said cable to render said spring means inoperative when said cable is taut, a first rail engaging tooth on said catch member projecting radially from the opposite side thereof from said projection and a secondary tooth projecting radially from said catch member and at an oblique angle to the axis of said catch member to engage the interior corner of said rail and positioned angularly behind said first tooth, said other flange having a plurality of vertically spaced recesses formed therein for receiving and engaging said first tooth.

2,651,818
LOCK FOR STORM SASH
Irving H. Schwartz, Philadelphia, Pa.
Application July 11, 1952, Serial No. 298,328
2 Claims. (Cl. 20—55)



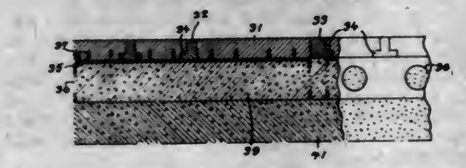
1. For use in connection with window construction of the type which includes a window frame, an inwardly projecting track carried by said frame, a sash for closing the window opening, and a pair of outwardly projecting walls defining a channel for receiving said track with said walls disposed along the opposite sides of said track, a lock for securing said sash to said window frame, said lock including a plate, a tongue projecting from said plate in the direction of said track, there being a passage formed in the adjacent one of said pair of walls through which said tongue is adapted to pass to engage said track, said plate having an opening therein and said sash frame having a tapped hole therein, and a bolt having a reduced portion adapted to pass through the opening in said plate to engage said tapped hole and having an enlarged head adapted to bear on said plate to press said tongue against said track.

2,651,819
ADJACENT FLOOR AND THRESHOLD PLATE STRUCTURE FOR RAILWAY CARS
Ernest G. Doke, Winnetka, Ill., assignor to Mac-Lean-Fogg Lock Nut Company, Chicago, Ill., a corporation of Illinois
Application February 20, 1951, Serial No. 211,900
4 Claims. (Cl. 20—64)



1. In a railway car having side sills extending longitudinally of opposite sides of the car and each comprising a web portion and an integral flange extending inwardly of the car from the top of the web portion, and door posts extending upwardly in spaced relationship from each of the side sills to define door openings on opposite sides of the car; the combination therewith of a threshold plate of formed metal section for each door opening and having a top web portion, an inner flange extending downwardly in substantially right angular relationship from the top web portion, and an outer flange extending inwardly and downwardly from the top web portion in acute angular relationship thereto, each threshold plate being secured to the upper and outer surfaces of one of the side sills by having the lower edge of the inner flange and the inner edge of the outer flange welded to the mid-portions of each of the top flange and web portion respectively of the side sill so that the web portion of the threshold plate is above the side still flange and the inner flange of the threshold plate provides a floor abutment, said threshold plates also having their opposite ends secured to the door posts and forming with the side sills a hollow and tubular reinforcing structure extending across the door opening, and a metal floor extending between the threshold plates in spaced relationship to the side sill flanges and having its ends welded to each of the threshold plates at the juncture of the web portion and inner flange thereof.

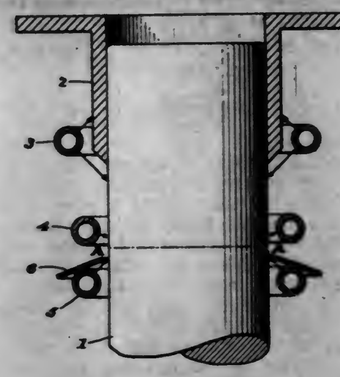
2,651,820
METAL-BACKED WOOD FLOOR
Emile Hirsch, Cairo, Egypt
Application January 27, 1948, Serial No. 4,510
1 Claim. (Cl. 20—75)



In a floor for a building construction, a horizontally disposed concrete base, a plurality of metal box-like apertured members positioned on said base, a plurality of circular sets of pointed teeth extending upwardly from said members and formed integral therewith, a plurality of triangular shaped inclined pointed lugs extending upwardly from said members and positioned between said circular sets of teeth, a plurality of wooden floor pieces mounted on said box-like members, each of said floor pieces being provided with circular openings in their lower surface to receive said teeth, spacer strips interposed between the individual floor pieces and engaged by said lugs, and further spacer strips contacting the base and positioned between the metal box-like members, and tongue and groove connections between the last named spacer strips and the floor pieces.

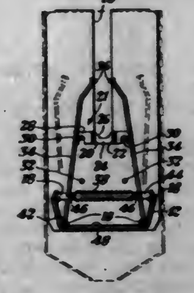
2,651,821
CONTINUOUS OR SEMICONTINUOUS CASTING OF METALS
Richard Chadwick, King's, Norton, Birmingham, and John F. Hobbs, Birmingham, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
Application November 20, 1950, Serial No. 196,542
In Great Britain November 24, 1949
5 Claims. (Cl. 22—57.2)

1. In apparatus for the continuous or semicontinuous casting of metals and their alloys having means for limited direct cooling of the cast product, the improvement comprising a coolant spray disposed around said casting for spraying a coolant directly upon the peripheral surface of the casting, a pair of vertically spaced compressed air spray rings disposed around said casting below the said coolant spray, said air spray rings having openings therein disposed to



direct air in opposed convergent directions toward a region on the casting intermediate the levels of said compressed air spray rings so that the coolant is removed from the casting at a substantially constant level between the positions of impingement of said air sprays.

2,651,822
MOLD SUPPORTING DEVICE
Ralph P. Davis, Squantum, Mass., assignor to Walworth Company, Boston, Mass., a corporation of Massachusetts
Application April 17, 1951, Serial No. 221,423
5 Claims. (Cl. 22—99)



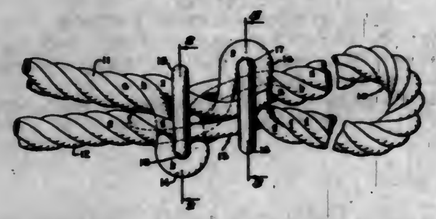
1. A supporting device for a shell-type mold, comprising a pair of oppositely disposed side-wall members, a plurality of connecting members extending between said side-wall members and being connected thereto for retaining the same in spaced relation, support means carried by said side-wall members, said support means extending between said side wall members and being adapted to engage the lower edge of a mold to support the same, and means for preventing lateral displacement of a mold on said support means including at least two oppositely disposed members pivotally mounted on said connecting members, yieldable means for biasing said pivoted members toward each other for engagement with the mold on said support means, and stop means for limiting said pivotal movement under said bias to maintain a spaced relation between said pivoted members in the biased position thereof.

2,651,823
CHAPLET
Harvey F. Hehlfelder, North Perry, Ohio, assignor to The F. Hehlfelder Company, Cleveland, Ohio, a corporation of Ohio
Original application January 9, 1951, Serial No. 205,696. Divided and this application February 7, 1952, Serial No. 270,389
3 Claims. (Cl. 22—184)



1. A chaplet adapted to be positioned substantially entirely within the metal receiving cavity of a mold and for supporting a core or the like therein, said chaplet comprising a single length of wire, the central portion of which is formed into a connecting stem and the end portions of which are formed into supporting heads, one at each end of the stem, each of said heads consisting of a single turn of the wire and the adjacent end of the connecting stem being positioned in a plane substantially at right angles to the main portion of the stem and being open so as to permit the escape of gas therethrough.

2,651,824
ROPE AND CABLE JOINT
Edwin C. Elsner, Glendale, Calif.
Application September 15, 1950, Serial No. 185,135
7 Claims. (Cl. 24—122.6)



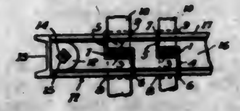
1. A joint for connecting adjacently disposed elongate flexible stranded members, comprising: a laterally extending loop formed from a strand of each member, the loop of each of the adjacently disposed members being positioned between strands of the other member and projecting therethrough; and a split ring of deformable material extending through each projecting loop, the ends of each ring being initially spaced apart sufficiently to receive the members sidewise therethrough upon swinging movement of the ring from a position extending beyond the associated loop to an opposite position around the adjacent members, and in the latter position being deformable into gripped relation with said members.

2,651,825
TENSION DEVICE FOR BELTS
Marjorie F. Green, New York, N. Y.
Application January 10, 1952, Serial No. 265,757
4 Claims. (Cl. 24—163)



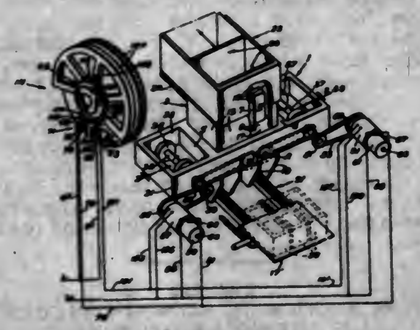
1. In a tensioning device for a belt buckle having an open frame including two side bars, two end cross pieces, and an intermediate cross bar extending between the said side bars and adapted to receive the captured end of a belt secured around the cross bar: the combination of a one-piece unit having an intermediate web, a yieldable plate portion and a pair of resilient jaw members, the jaw members extending from said intermediate web for yieldably gripping the belt-covered cross bar against accidental removal, but enabling intentional removal, of the device, from the belt covered cross bar between said jaw members, and the yieldable plate portion extending outwardly from said intermediate web back over one of said jaw members to engage the free end of the belt threaded under the two end cross pieces and over the belt covered cross bar and thereby yieldingly press the free end of the belt against the said end cross pieces, with the jaw members and intermediate web extending in one direction and the yieldable plate portion extending in the opposite direction.

2,651,826
SPRING CLAMP
Arley D. Carpenter, Los Angeles, and John A. Carpenter, North Hollywood, Calif.
Application April 20, 1951, Serial No. 222,029
1 Claim. (Cl. 24—257)



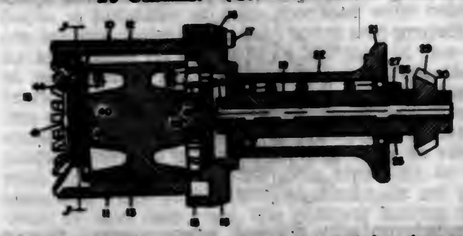
A spring clamp as disclosed including a single elongated coil spring with its end extensions extending outwardly tangentially therefrom in parallel relation, and bent at right angles in opposite directions toward the spring axis and bent again in planes at right angles to the planes of the extensions and toward the spring forming arcuate cable hooks from the outer ends of said extensions.

2,651,827
VIBRATING MECHANISM
George L. Oswalt, Forest Park, Ill.
Application February 27, 1948, Serial No. 11,482
9 Claims. (Cl. 25—41)



3. In combination, a mold body, a rotatable shaft supported at each end of the mold body, an eccentric weight fixed to each shaft, each shaft being adapted to be motor driven by a separate motor, braking means adapted to be automatically applied to each shaft whenever its motor is de-energized, means for releasing the brakes when the motors are re-energized whereby the force of gravity will rotate the shafts into positions wherein the eccentric weights are in their lowermost positions.

2,651,828
THREAD ADVANCING REEL
Albert W. Eidmann, South Euclid, and Andrew H. Wilkelis, Cleveland, Ohio, assignors to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
Application January 22, 1948, Serial No. 3,968
10 Claims. (Cl. 28—71.7)

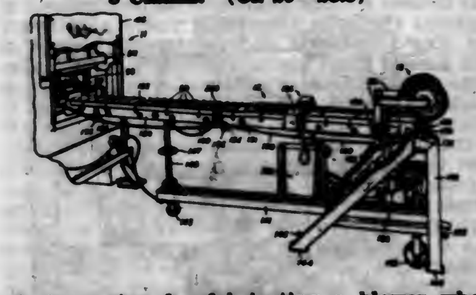


1. A thread-advancing reel comprising two reel members each having a periphery of a plurality of circumferentially spaced bar members, the bar members of both reel members being interleaved, one of said reel members being hollow, and the other of said reel members being rotatable about a substantially freely movable axis and gravitationally positioned substantially within the hollow reel member.

2,651,829
SURFACE ACTIVE MEDIA
Joseph Nimsheim, Frankfurt am Main, Germany, assignor to Metallgesellschaft Aktiengesellschaft, Frankfurt am Main, Germany, a corporation of Germany
No Drawing. Application July 25, 1950, Serial No. 175,871. In Germany January 12, 1949
9 Claims. (Cl. 28—72.3)

1. In the processing of wool the step of fulling the wool with a surface active phosphoric acid ester in an aqueous medium, said phosphoric acid ester being selected from the group consisting of an ortho-phosphoric acid monoester, an ortho-phosphoric acid di-ester and a mixture of the said esters.

2,651,830
APPARATUS FOR FORMING BLOWER WHEELS
Carl E. Wilken, Dayton, Ohio, and Lyle L. McGladrey, Cloquet, Minn., assignors to The Lau Blower Company, Dayton, Ohio, a corporation of Ohio
Application July 17, 1947, Serial No. 761,476
8 Claims. (Cl. 29—33.5)



1. Apparatus for fabricating a blower wheel having therein a predetermined number of individually formed blower blades arranged in angularly spaced circumferential alignment about a central axis and each having an edge of the working face thereof adapted to lie innermost in the finished wheel and including flanges at the opposite ends thereof adapted to extend generally radially of the finished wheel, comprising a work station including a fixture for assembling and holding said predetermined number of said blades in said spaced circumferential alignment, periodically operable forming means for successively forming said blades from sheet stock, said forming means being constructed and arranged to form each said blade with said working face lying downwardly and with said flanges thereon projecting upwardly, means for conveying successive said blades from said forming means to said work station, delivering means connecting said forming means with said conveying means, means on said delivering means for causing each said blade to rotate through a sufficient arc to be deposited on said conveying means with said edge thereof uppermost and with said flanges thereon extending downwardly, means on said conveying means receivable between said flanges on said blades for maintaining and guiding said blades in parallel relation along said conveying means, means at said work station for mounting said fixture for rotation above said conveying means, and said fixture including portions for frictionally gripping and removing each successive advancing blade from said conveying means in said spaced circumferential alignment upon rotation of said fixture in the same general direction with said conveying means.

2,651,831
SEMICONDUCTOR TRANSLATING DEVICE
Walter L. Bond, New Providence, and Morgan Sparks and Gordon K. Teal, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 24, 1950, Serial No. 175,584
5 Claims. (Cl. 29—25.3)

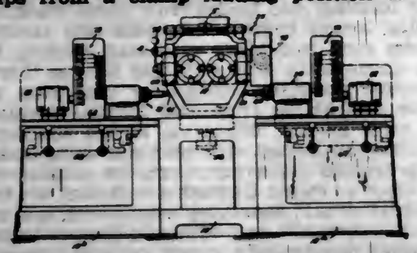


1. The method of preparing a rod of semiconductor material composed of two elongated crystals of n-type electrical conductivity with a longitudinally intervening sheet of p-type conductivity, which comprises melting a mass of semiconductor material having n-type electrical conductivity, maintaining the mass at a temperature above the melting point, partly immersing in the melt a pair of adjoined elongated seed single crystals of the material having along their junction a difference of the order of ten degrees in crystalline orientation, and lifting the seeds from the melt at a rate substantially equal to the rate of solidification of the uplifted material adherent to the seeds.

2,651,832
MACHINE FOR FINISHING PISTONS
Clifford G. Menard, Shrewsbury, and John J. McCabe, Worcester, Mass., assignors to The Heald Machine Company, Worcester, Mass., a corporation of Massachusetts
Application January 16, 1951, Serial No. 206,214
3 Claims. (Cl. 29—36)

1. A machine for producing a peripheral surface and an internal wrist pin hole surface, said surfaces having a predetermined accurate relation to each other in each of a succession of

pistons, said machine comprising work clamping mechanism having a plurality of piston clamps in spaced relation, a turning tool and a boring tool each operable upon different successive pistons in said clamps, said clamping mechanism being movable step-by-step to index each of said clamps from a clamp loading position to said



turning and boring tools successively, locating means operable at said loading position for accurately orienting said pistons in said clamps, said locating means including positioning pins engageable with preformed holes in said pistons and means preventing movement of clamping mechanism until after retraction of said locating means.

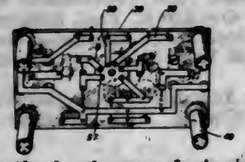
2,651,833

METHOD OF MOUNTING APPARATUS

John J. J. Kernahan, Whippany, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application April 28, 1950, Serial No. 158,862

3 Claims. (Cl. 29—155.5)



1. The method of manufacturing electronic equipment which comprises forming to size a panel of a thermoplastic having the ability to reshape itself on heating to a temperature range in which the material is quasi-elastic, in accordance with stresses introduced thereinto during a prior heating to a quasi-elastic condition; heating said panel and a backing plate having a plurality of apertures precisely aligned with the bores to be punched, to a temperature at which said panel is quasi-elastic; applying a punch, having a plurality of punch pins extending therefrom and through an aperture stripper plate, to said heated panel and punching the panel; cooling said backing plate, panel, stripper plate, and punch, removing said stripper plate punch and punch pins from said panel, inserting connecting wires and components to be mounted on said panel in the bores left by said punch pins, maintaining said wires and components in position while reheating the panel to the quasi-elastic temperature range; and cooling said panel to room temperature.

2,651,834

COMMUTATOR BLANK AND METHOD OF MAKING COMMUTATORS

Julius Klym, Cleveland, Ohio, assignor to Kirkwood Commutator Company, Cleveland, Ohio, a partnership

Application October 19, 1950, Serial No. 190,977

7 Claims. (Cl. 29—155.54)

1. That method of making a commutator comprising the steps of forming an elongate metal bar of substantially triangular cross sectional contour, which bar has a laterally offset section at its base, blanking a plurality of commutator segments from the metal bar, arranging a plurality of commutator segments in annular form with their side edges abutting each other at least at their offset sections and with their apices extending inwardly of the ring and being spaced



circumferentially thereof, encompassing the positioned commutator segments in a plastic insulation material that is positioned intermediate the adjacent side edges of the segments except at the offset sections thereof to form a commutator blank, and removing the peripheral portion of the commutator blank including the offset sections of the commutators segments to form a commutator.

2,651,835

CLAD MAGNESIUM BASE ALLOYS

John H. Jackson, Columbus, Ohio, assignor, by mesne assignments, to Mathieson Chemical Corporation, New York, N. Y., a corporation of Virginia

No Drawing. Application July 21, 1948, Serial No. 40,005

1 Claim. (Cl. 29—197.5)

An article comprising a high-strength magnesium-lithium base alloy containing 15% Cd and 5% Ag with the remaining 80% consisting essentially of magnesium and lithium the ratio of magnesium to lithium being 6:1, and a corrosion resistant cladding consisting of a binary alloy of about 8 parts of magnesium to 1 part of lithium which cladding is in direct contact with the base alloy and is strongly bonded thereto.

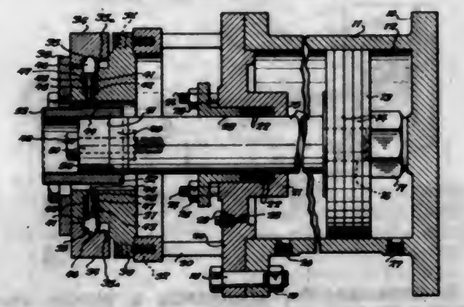
2,651,836

CORE CAP REMOVER

George W. Wallenius, Turners Falls, Mass., assignor to International Paper Company, New York, N. Y., a corporation of New York

Application March 14, 1951, Serial No. 215,533

3 Claims. (Cl. 29—252)



3. A machine to remove internally skirted core caps from hollow cores, comprising a base, a cylinder block fastened on said base and including a cylinder head, a double acting piston, a plunger attached to said piston and extending through said cylinder head, means for actuating said piston, and a clamping assembly attached to and extending beyond said cylinder head and including a clamping ring provided with a plurality of radially disposed bores, a cam ring rotatably mounted on said clamping ring and provided with a plurality of inwardly disposed spiral cams numerically corresponding to and aligned with said bores, a plurality of pins provided with retracting springs mounted in said bores and projectable by said cams to firmly hold the end of the core in preparation for the removal of the cap therefrom, means to rotate said cam ring, rotation in one direction effecting propulsion of said pins inwardly toward the center and rotation in the opposite direction allowing said springs to retract said pins, and a locking ring attached to said clamping ring to frictionally maintain set positions of said cam ring, the plunger having a diameter substantially equal to the inside diameter of said core and receivable within the core held by said clamping ring and being provided at its outer end with a portion of reduced diameter whereby to form an abutment shoulder engageable with the internal skirted portion of said cap.

2,651,837

APPARATUS FOR FORMING BLOWER WHEELS

Carl E. Wilken, Dayton, Ohio, and Lyle L. McGladrey, Cloquet, Minn., assignors to The Lau Blower Company, Dayton, Ohio, a corporation of Ohio

Original application July 17, 1947, Serial No. 761,476. Divided and this application June 21, 1948, Serial No. 34,334

6 Claims. (Cl. 29—236)



6. A fixture of the character described for assembling and holding a plurality of blower blades in circumferential alignment about a central axis, comprising a pair of circular members arranged in spaced coaxial relation about said axis and each having a plurality of angularly spaced slots in the periphery thereof to receive the inner edges of blower blades, a member positioned intermediate said slotted members and coaxial therewith, resilient means extending radially outward from said intermediate member into overlapping relation with said slots in said slotted members, a shaft eccentrically mounted in one of said slotted members and extending into said intermediate member, a cam mounted on said shaft, a cam lever mounted on said cam, said intermediate member having a cut-out portion therein for cooperation with said cam lever, and means for causing rotation of said shaft and resultant relative movement between said cam lever and said cut-out portion in said intermediate member effective to cause relative rotation of said intermediate member and said slotted members and to arrange said resilient means in position to exert circumferential tension about blades positioned in said slots to hold such blades yieldably in said slots.

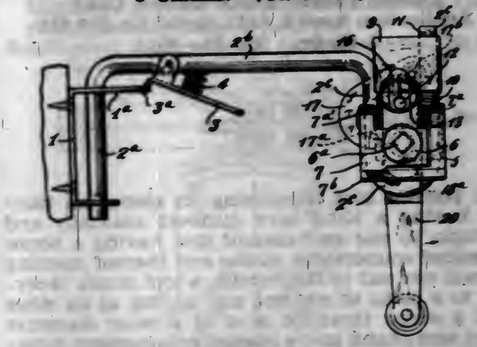
2,651,838

CAN OPENER

Earl W. Curtis, Temple, Pa.

Application August 26, 1950, Serial No. 181,607

8 Claims. (Cl. 30—9)



1. A can opener comprising rotatable means adapted to be brought into operative engagement with one side of the edge portion of a can for cutting the same, rotatable means adapted for operative engagement with the opposite side of the same edge portion of the can for effecting rotation thereof, said last-named rotatable means having a shaft, and a unitary manipulatable means for effecting operative engagement of said rotatable means with the opposite sides, respectively, of the same edge portion of a can so as to effectively position the same therebetween for the cutting operation and for effecting the rotation and simultaneous cutting operation thereupon, said last-named means including a rotatable disk means on the shaft of said second-named means and a companion means associated with said cutting means for co-operative releasable engagement with said disk means, said companion means and cutting means being bodily movable towards and from said second-named means so as to position said cutting means with respect to the can, and said companion means being adapted to be moved into engagement with said disk means for effecting said movement of said cutting means and being adapted also to accommodate said disk means in continued rotation in operative direction for the cutting operation.

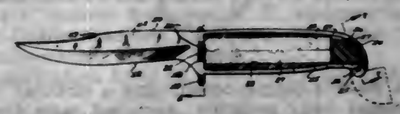
2,651,839

KNIFE ASSEMBLY

Sidney J. Folland, Malad City, Idaho

Application February 28, 1950, Serial No. 146,825

3 Claims. (Cl. 30—125)



2. A knife assembly including a blade having a pair of spaced tangs extending longitudinally from one end thereof, a handle extending between said tangs, means connecting the handle to said tangs, said handle having an open ended chamber for receiving an article, said tangs having the outer ends projecting beyond said handle, a pommel pivotally connected to the outer

end of one of said tangs and arranged to close said chamber, the other of said tangs having a yieldable outer end provided with a detent portion, and means on the pommel for releasably engaging the detent portion when the pommel is moved to close the chamber.

2,651,840
POINTED TOOL
Samuel Taylor, Santa Monica, Calif.
Application April 6, 1951, Serial No. 219,639
1 Claim. (Cl. 30—151)



A pointed tool comprising an elongated handle having a blind bore disposed coaxially and opening to one end thereof and having a screw threaded counterbore at the end thereof opening to said one end of the handle, a tool shank tapering to a point at one end and having at its other end a screw threaded stud of greater diameter than said shank and a coaxial enlargement intermediate the length of said stud providing annular shoulders one at each end of said enlargement and screw threaded stud portions extending one from each of said annular shoulders, the portions of said stud at opposite ends of said enlargement being selectively receivable in said counterbore to dispose said shank in said bore or in a position in which it extends longitudinally from said one end of said handle, and a cap having a bore extending coaxially therethrough and a screw threaded counterbore at one end thereof receiving the portion of said stud disposed outside of said handle, said cap having a length materially less than the length of said shank so that when said shank is secured to said handle in position to project longitudinally from said one end of the handle and the counterbore in said cap receives the portion of said stud disposed outside of said handle with said shank extending through the bore in said cap, said shank extends beyond the end of said cap remote from said handle and the bore in said handle having a length at least as great as the length of said shank.

2,651,841
DENTAL CLAMP
Howard C. Peterson, Sioux Falls, S. Dak.
Application July 30, 1952, Serial No. 301,742
1 Claim. (Cl. 32—63)



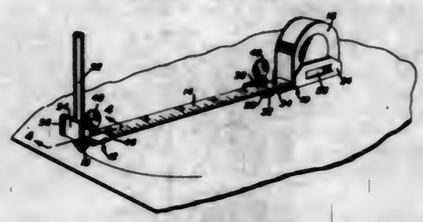
In a matrix clamp comprising a circular resilient metal body member, serrated jaws formed on the ends of the resilient body member, at substantially right angles to said body member, the outer ends of said jaws contacting each other, and manipulating members for the resilient body member comprising projections extending downwardly at right angles from the resilient body member and in opposite direction from the serrated jaws thereof.

2,651,842
INTEGRATING COMPASS
Carl L. Otte, Jr., Lummi, Wash.
Application July 25, 1947, Serial No. 763,521
16 Claims. (Cl. 33—1)



9. A direction sensitive instrument comprising a movable direction reference on the instrument, a movable element, a mask cooperating therewith and movable relative thereto with the reference, having a geometric shape for generating a positive or negative integratable function of element deviation from the direction reference, means responsive to the instant position of the mask and element to pass a positive or negative electric current in accordance with the instant value of said function, and means including a capacitor algebraically summing and storing the electricity conveyed by said current to provide the integral of said function.

2,651,843
CIRCLE MARKER
Anthony J. Goodford, Wilkes-Barre, Pa.
Application August 16, 1950, Serial No. 179,741
3 Claims. (Cl. 33—27)

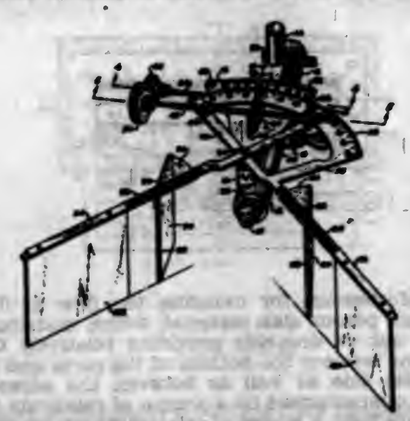


1. A circle marker attachment for rulers comprising a center point clip and a scriber clip adapted for attachment to spaced portions of a ruler, said center point clip comprising an elongated plate having a center point depending therefrom, a pair of side walls rising from said plate for receiving the edges of a ruler therebetween, a bracket mounted on said plate and disposed forwardly of said side walls in spaced overhanging relation upon said plate, a clamping member on said bracket for adjustably securing a ruler between said plate and bracket, a resilient member on one wall for yieldingly biasing a ruler against the other wall, said clamping member being disposed in axial alignment with said center point.

2,651,844
APPARATUS FOR MEASURING THE SPRAY ANGLE OF A NOZZLE
William F. Smith, Irvington, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application January 4, 1952, Serial No. 264,961
8 Claims. (Cl. 33—75)

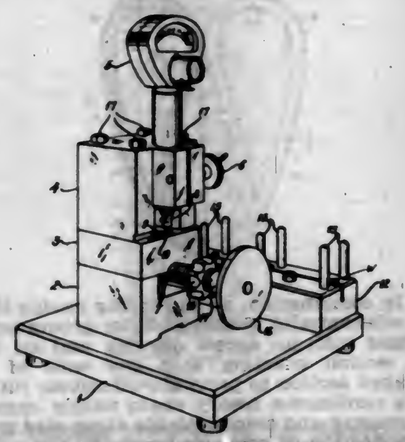
1. Apparatus for measuring the spray angle of a fluid spray nozzle; said apparatus comprising

a pair of arms; means pivotally connecting said arms; means for supporting said arms on a fluid spray nozzle with the axis of said pivotal connection disposed perpendicular to the nozzle axis and intersecting said nozzle axis at the discharge end of the nozzle; a pair of means, one for and carried by each of said arms for movement into



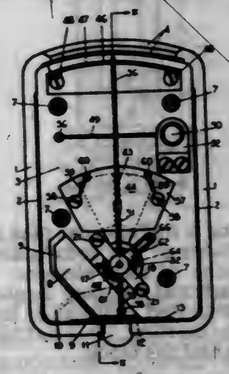
and out of the path of the nozzle fluid spray upon pivotal movement of said arms about said pivot axis; and means operatively connected to said arms for pivotally moving said arms about said pivot axis for changing the angle between said pair of means about said pivot axis and for changing the direction of the bisector of said angle.

2,651,845
ROUNDNESS CHECKING GAUGE
Royal D. Kiehl and Robert E. Wagenhals, Canton, Ohio, assignors to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application February 18, 1948, Serial No. 9,077
5 Claims. (Cl. 33—147)



5. A roundness checking gauge for a work piece comprising a frame; a member secured to said frame and having a bore therein in which a work piece is rotatably received; resilient rings concentric with said bore and integral with said member for compensating for the roundness variations in a work piece and urging the work piece radially inwardly of said bore; a rod slidably mounted in a bore in said member and disposed at right angles to the axis of said bore, the rod being contactable with the work piece and flexible reed means secured to said frame supporting said rod for axial movement in the bore receiving same.

2,651,846
APPARATUS FOR MEASURING THE THICKNESS OF NONMAGNETIZABLE COATINGS ON MAGNETIZABLE MATERIALS
Thomas Richard Budge, Timperley, Altrincham, England, assignor to The General Electric Company Limited, London, England
Application September 23, 1950, Serial No. 186,266
In Great Britain September 29, 1949
9 Claims. (Cl. 33—172)

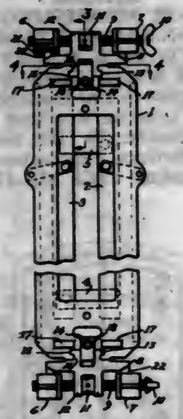


1. Apparatus for measuring the thickness of layers of non-magnetizable material on magnetizable materials comprising, a bar magnet, a single contact-making unit of magnetizable material, said unit being in contact with one end only of the bar magnet and having a contact-making surface at least part of which in operation is brought into contact with the surface of the material on which measurements are to be made, the said contact-making surface being smooth and non-concave and having a configuration such that the tangents at the points on said surface which in operation are brought into contact with the surface of said material are inclined to the longitudinal axis of the bar magnet, a moving-iron element, means for supporting the moving-iron element near the mid-point of the bar magnet said means permitting rotation of the moving-iron element about an axis fixed with respect to the bar magnet, means for exerting a force biasing the moving-iron element towards a chosen orientation about said axis of rotation, and a scale and an associated index coupled to the moving-iron so as to move across the scale in dependance upon rotations of the moving-iron element about said axis of rotation.

2,651,847
TEMPLATE FOR LOCK PLATE MORTISES
Elmer P. Sacrey, Syracuse, N. Y., assignor to Porter-Cable Machine Company, Syracuse, N. Y., a corporation of New York
Application April 12, 1949, Serial No. 87,247
1 Claim. (Cl. 33—197)

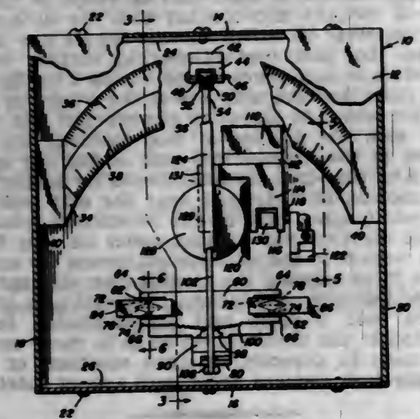
A templet for mortises comprising a body plate, mortise locating gages carried by the body plate and means for supporting the body plate on the edge face of an element to be provided with the mortise, the body plate having faces for pressing flatwise against the edge of said element, the supporting means comprising a block, a pair of jaws adjustable lengthwise of the block and transversely of the plate for clamping on opposite side

faces of said element, the block having a hub arcuate in cross section and swiveled in an arcuate bearing in the body plate, the hub being formed with an axial bore arcuate in cross section, and a stud carried by the body plate and rotatably fitting the bore, the stud being arcuate in cross sec-



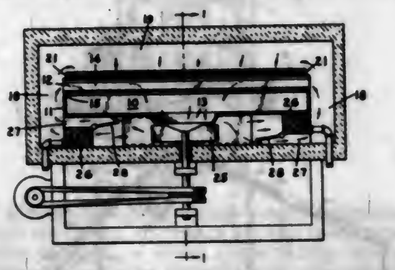
tion and having a flat chordal face located in the plane of the faces of the body plate which press against the edge of said element, and the hub having a diametrical flat face located out of said plane in any swiveled position of the body plate, and a stop for limiting the relative swiveling of the body plate and the block.

2,651,848
LEVEL
Jack W. Sims, New York, N. Y.
Application August 2, 1948, Serial No. 42,087
4 Claims. (Cl. 33—215)



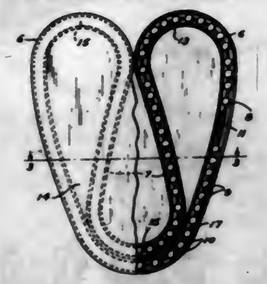
2. A level comprising a casing having a window opening therein, a graduated plate fixed in the housing behind and in registry with the window opening, first and second spaced parallel vertically swingable pendulums in the casing, said first pendulum including an end extending across the graduated plate and forming a pointer, said first pendulum including a pivot underlying the second pendulum, a rack bar at the lower end of the second pendulum and comprising the weighted end of the pendulum, a gear secured to the pivot of said first pendulum and meshing with said rack bar, a pair of guides secured in the casing, and anti-friction elements at the ends of said bar engaging the guides throughout swinging movement of the second pendulum.

2,651,849
OVEN DRIER
Adam J. Kisukait, Grosse Pointe, Mich., assignor to Mechanical Handling Systems Inc., Detroit, Mich., a corporation of Michigan
Application April 2, 1949, Serial No. 85,100
13 Claims. (Cl. 34—155)



1. Mechanism for inducing the flow of fluid through porous slab material, which material is cored out on one side providing relatively thin sections between the bottom of the cores and the opposite side as well as between the adjacent cores, characterized by a source of relatively low pressure fluid, a source of relatively high pressure fluid, and a housing defining a plurality of passages terminating in closely adjacent areas of a common surface substantially contiguous with the cored surface of said porous material, adjacent passages alternately communicating with each of said sources, said areas being adapted to be substantially covered by the cored side of said porous material.

2,651,850
ROSARY ASSEMBLAGE
Stanley J. Czerwiczuik, Milwaukee, Wis.
Application June 28, 1951, Serial No. 234,118
2 Claims. (Cl. 35—33)



1. In combination, a rigid casing having therein a substantially U-shaped outer groove section provided with an access opening and an inner loop section coacting with the ends of said U-shaped section to provide a circuitous runway, and a continuous rosary chain snugly engaging said runway and being slidable along said groove by application of pressure longitudinally against the chain through said access opening.

2,651,851
TOY
Arthur L. Valpey, Plymouth, Mich.
Application September 4, 1948, Serial No. 47,839
8 Claims. (Cl. 35—31)

8. In an educational toy, a number dial having a plurality of consecutive integers visibly

arranged thereon in a series, an indicating hand movable relative to said integers for indexing therewith, a plurality of counters, a container for said counters, a display chute associated with said container to receive the counters therefrom for visual display, escapement means for holding the counters in the container and being op-



erative to discharge a counter from the container to the display chute, and manually actuated means operative for recessively indexing said indicating hand from one integer of said dial to the next smaller integer and conjointly operating the escapement means to discharge a counter from the container into the display chute.

2,651,852
BLACKBOARD SUPPORTING STRUCTURE
Leon F. Urbain, Chicago, Ill.
Application August 17, 1949, Serial No. 110,701
16 Claims. (Cl. 35—63)



5. A building construction for supporting a display board or the like on a wall comprising a ground construction forming a framework having a front surface and comprising a plurality of elongated strips arranged on the surface of a wall and extending therefrom, a plurality of securing members on said strips, a plurality of trim members secured over said securing members and covering some of said strips and said securing members, and a chalk trough securable over the remainder of said securing members and covering the remainder of said elongated strips, said chalk trough including an upper longitudinal edge for bearing against a display board in mounted position and a lower longitudinal wall vertically displaced from said longitudinal edge and extending rearwardly beyond said display board and said edge and abutting said wall to underlie and cover the remainder of said ground strips.

2,651,853
ANIMAL BOOT WITH ADHESIVE TAPE SECURING MEANS
Fred Peter Lewis, Enid, Okla.
Application November 29, 1951, Serial No. 258,947
1 Claim. (Cl. 36—3.5)



An animal boot of flexible durable rubberized material including a foot portion and a tubular leg portion, said foot portion having a sole, said leg portion projecting upwardly from the foot portion, said leg portion at its rear having a wide elongated vertical slot extending to its upper end to provide spaced adjustable opposed sides arranged to conform to the shape of the leg of an animal, a flexible flap vulcanized to the leg portion at the bottom of the said slot and having a free unattached portion of greater width than the slot so as to completely close the slot and overlap the opposed sides thereof, and means for connecting the boot to the animal including a strip of circumferentially disposed adhesive tape adapted to hold the sides of the slotted leg portions and the flap in close engagement with the leg of the animal, and a vertically disposed adhesive strip connected to the leg portion of the boot and having an extension for attachment to the leg of the animal.

2,651,854
VENTILATED SHOE
Frederic H. Taber, New Bedford, and Harold S. Swain, Brockton, Mass.
Application January 5, 1952, Serial No. 265,098
5 Claims. (Cl. 36—3)



1. A shoe comprising a vamp, a vamp lining and a tip whose rear marginal portion overlies the vamp, the shoe having registering openings in the overlapping portions of the tip and vamp, a grid of flexible material interposed between the vamp and vamp lining at the forepart portion of the shoe, the grid having slots registering with the aforesaid openings, and the vamp lining having apertures rearwardly of said tip, which communicate with the slots in the grid.

2,651,855
INSOLE HAVING SEPARATE ATTACHED SEWING RIBS
Victor A. Sherbrook, Milford, Mass., assignor to Milford Shoe Co., Milford, Mass., a corporation of Massachusetts
Original application October 4, 1950, Serial No. 188,446, now Patent No. 2,595,895, dated May 6, 1952. Divided and this application March 22, 1952, Serial No. 277,963
8 Claims. (Cl. 36—22)



1. An insole comprising an insole blank, a tape secured to the insole blank at the forepart edges and extending into the shank, separate tapes at the shank secured to the insole blank and cemented to the first-named tape in upstanding relation relative to the insole blank, each tape being folded lengthwise and in turn secured to the insole blank, the separate shank tapes being secured to the insole blank adjacent the line of securement of the first-named tape to the insole blank, a cover at the side of the blank opposite the tapes, the cover having edges turned up over the edges of the insole blank and secured to the tapes to aid in maintaining the latter in substantially upright condition.

2,651,856
SHOE UPPER PROVIDED WITH PROTECTIVE SPRAY COVER AND METHOD FOR FORMING SAME
Charles G. Newton, Jr., Newburyport, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application November 19, 1948, Serial No. 61,044
10 Claims. (Cl. 36—72)



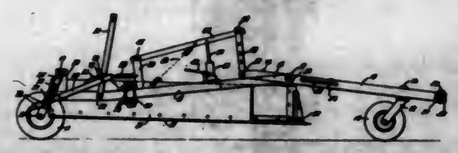
1. A method for forming on the surface of an article a tough, strong, lightly adherent film serving as a removable temporary protective cover which comprises injecting a coating solution into a high pressure, high velocity air blast to form a spray of fine droplets of the coating solution, and directing said spray of coating solution at the surface of the article, the coating solution comprising a film forming component and a solvent therefor, said film forming component consisting of an unplasticized copolymer of from 40% to 75% by weight of styrene with from 60% to 25% by weight of a member selected from the group consisting of isobutylene and butadiene, and said solvent comprising a highly volatile nonpolar organic solvent medium for the copolymer having a boiling range such that at least 50% of the solvent will boil below 50° C., the copolymer being present to the extent of from 15% to 40% by weight of the solution.

2,651,857
COVER FOR TEMPORARY PROTECTION OF SHOES
Stanley M. Griswold, West Newton, and Harold C. Reynolds, Jr., Belmont, Mass., assignors to B. B. Chemical Co., Boston, Mass., a corporation of Massachusetts
Application April 18, 1950, Serial No. 156,588
2 Claims. (Cl. 36—72)



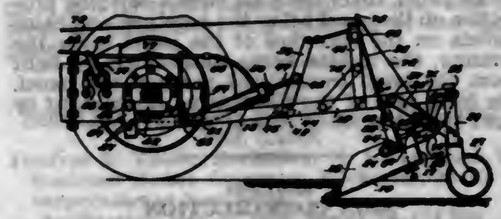
1. A temporary protective cover for application to the upper of a shoe to guard the upper against soiling during shoemaking operations comprising an integral, thin, flexible sheet conforming generally to the shape of and having a width and length to extend to the lasting margin of a shoe upper with a seamless portion for covering the forward part of the shoe upper and with the rear edge portions of the sheet secured together to hold the sheet in shoe conforming shape providing a pocket for receiving the heel portion of a shoe, and a layer of a heat-activatable adhesive bonded by an intervening adhesive precoat to the inner face of the sheet adapted to form, when heated and pressed against the shoe upper, a readily ruptursable bond to a shoe to hold the cover in protective relation to the shoe during shoemaking, said heat-activatable adhesive comprising an intimate mixture of a wax having a melting point above 120° F. and an uncured thermoplastic rubber softenable by said wax when said wax is molten, said wax and uncured thermoplastic rubber being in the ratio of from 4:1 to 1:4 parts by weight and said mixture being nontacky and non-pressure sensitive when cool.

2,651,858
DITCHING PLOW ADJUSTMENT MECHANISM
Jack Schwindt, Fort Morgan, Colo., assignor of fifty per cent to Katherine W. Schwindt, Fort Morgan, Colo.
Application July 16, 1951, Serial No. 236,937
2 Claims. (Cl. 37—86)



1. In a ditching plow of the type having mold boards in V-shaped arrangement, the flared extremity of said V being directed rearwardly, said latter extremity being wheel-supported, means for variably supporting the apex of said V comprising: supporting arms secured to and extending upwardly from said mold boards; a horizontal hinge member supported by said arms above the apex of said V; a tongue member tiltably mounted on said hinge member and extending forwardly from said mold boards and rearwardly between the latter; a plow beam extending rearwardly from said arms medially of said mold boards and in fixed relation to the latter; an upright post member mounted on and arising from said plow beam rearwardly of said tongue member; a lifting lever hingedly mounted on said post member and extending forwardly over said tongue member; a suspension link hingedly suspending the rearward extremity of said tongue member from the forward extremity of said lifting lever; and variable supporting means supported on said plow beam below said lifting lever and acting upwardly against said lifting lever to cause said link to swing the rear extremity of said tongue member upwardly.

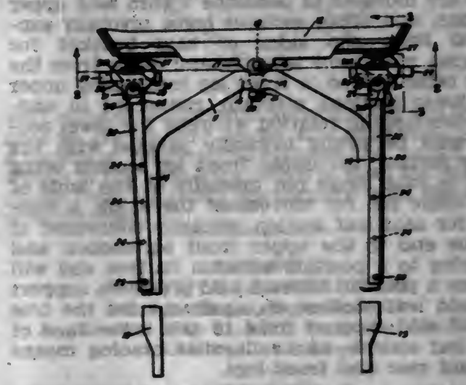
2,651,859
TRACTOR DITCH DIGGING ATTACHMENT
Nicholas M. Gralenski, Millers Falls, Mass.
Application November 29, 1950, Serial No. 198,137
4 Claims. (Cl. 37—129)



1. A tractor trench digging attachment comprising a tractor having a rear axle housing, a pair of booms, means pivotally attaching the forward ends of the booms to the said rear axle housing of the tractor, a wheel carried by a caster mounting pivotally mounted on the extended ends of the booms, arms pivotally mounted on the said extended ends of the booms, a scoop pivotally mounted on said arms, a latch carried by the arms for retaining the scoop in a scooping position, a lever pivotally mounted on a cross-bar fixed between the booms, a hydraulic cylinder pivotally mounted on a cross-bar fixed between the booms, said cylinder having a piston rod connected to the said lever, a brace mounted on the booms, a pulley journaled on the brace, a bail pivotally mounted on the arms between which the scoop is carried, a cable trained over the pulley on the brace connecting the bail to the lever, and means actuating the latch from the tractor for releasing the scoop for dumping.

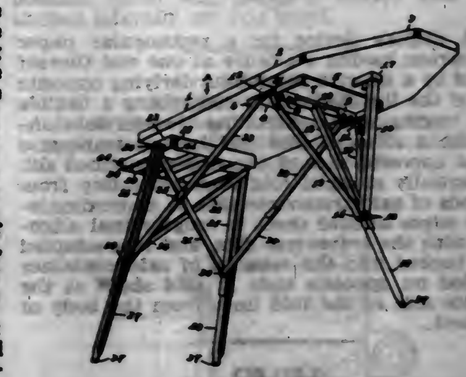
2,651,860
LANDSIDE END CONNECTION FOR BULLDOZER BLADES
George W. Mork, South Milwaukee, Wis., assignor to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware
Application December 30, 1949, Serial No. 135,887
3 Claims. (Cl. 37—144)

1. In a bulldozer of the type which includes: a supporting frame, a blade pivotally mounted thereon to tilt about an axis central and longitudinal with respect to the frame, two arcuate tracks rigidly mounted on the back of the blade and having their center of curvature on the tilting axis, two landsides each connected at its rear end to one side of the frame, a connecting member pivotally mounted on the front end of each landside to swing about a vertical axis with respect to the landside and adapted to engage the corresponding one of the two arcuate tracks for sliding along the track as the blade is tilted, and means to lock each connecting member to its arcuate track at selective points so as to lock the blade in selective tilted positions with respect to the frame; such locking means, further characterized by the fact: that each arcuate track has a vertical wedge-bearing surface on its rearward face, and two opposed undercut portions; that each connecting member has two opposed undercut portions adapted to slide along the undercut portions of one of the tracks; that there is on the front end of each landside a forwardly projecting wedge-seat, pivotally mounted



independently of the connecting member, to swing with respect to the landside about a vertical axis, and having at its forward end a vertical wedge-bearing surface; and that there is on each side a horizontally-driven wedge, adapted to engage and force apart the opposed wedge-bearing surfaces of the track and the wedge-seat, to force the undercut portions of the connecting member against the undercut portions of the track, and thereby to lock the blade in selected tilted positions.

2,651,861
FOLDING IRONING BOARD
Joseph E. Wood, Toronto, Ontario, Canada
Application January 9, 1952, Serial No. 265,637
1 Claim. (Cl. 38—117)



In a folding ironing board, a table comprising a main section and a leaf section, hinge plates secured to the inner faces of said sections, respectively, said hinge plates having opposed curved end extensions cooperating to provide sleeves longitudinally aligned transversely of the table, a hinge pin engaging within said sleeves, said sleeves and said hinge pin being spaced inwardly from said main table section whereby said leaf section may be swung to a position parallel

with but spaced from said main section, a bracket carried on the under side of said main table section near the end thereof farthest removed from said leaf section, said bracket having parallel side walls extending lengthwise of the main table section near opposite side edges of the latter, rear legs comprising upper sections of substantially U-shape in cross section and lower sections pivotally connected at their top ends to and within said upper sections, respectively, near the lower ends of said upper sections whereby the lower sections are movable to positions within said upper sections, said upper sections being pivotally supported from the sides of said bracket for swinging movement towards and away from the main table section, a front leg comprising upper and lower sections pivotally connected in endwise overlapping relation whereby the lower section may be swung inwardly parallel with the upper section, the upper front leg section being fixed to said hinge pin medially of the ends of said hinge pin for movement therewith, a support for said leaf section pivotally connected at its one end to the upper front leg section and swinging to a position wherein its free end will assume a position beneath and provide a support for said leaf section, an abutment for the free end of said support fixed to the lower face of said leaf section, and collapsible bracing means for said rear and front legs.

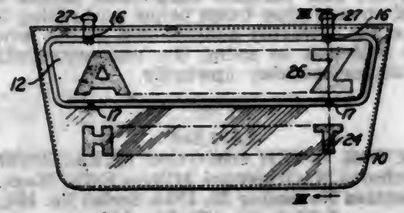
2,651,863
DISPLAY DEVICE
John A. Fine, Knoxville, Tenn.
Application August 20, 1948, Serial No. 45,337
5 Claims. (Cl. 40—4)



1. A display device for a rectangular paper milk carton having a closure at one end thereof formed by a lip with recesses underlying opposite ends of the lip, said device comprising a flexible sheet having a slit extending therein substantially in a straight line and having transverse slits at opposite ends of the first-mentioned slit, substantially straight fold lines extending from the ends of said transverse slits to approximately the edges of said sheet in longitudinal alignment with the transverse slits, and tabs adapted to be tucked into the recesses of said container provided on opposite ends of said sheet at the opposite side of the fold lines from the body of the sheet.

2,651,863
SIGN STRUCTURE
James A. Hewenstine, Lima, Ohio, assignor to Neon Products, Inc., Lima, Ohio, a corporation of Ohio
Application August 15, 1951, Serial No. 241,961
1 Claim. (Cl. 40—130)

A sign structure comprising an upright flat panel of transparent, light-piping material, there being an elongated aperture in said panel the edges of which aperture are perpendicular to the plane of the panel, an elongated lamp in said aperture, the longitudinal axis of the lamp being in the plane of the panel, whereby light from the lamp is transmitted through edges of the aperture into the body of the panel, a hollow housing of translucent material attached to the front face of the panel to cover the lamp and close the front side of the aperture, the lower side of said housing being substantially perpendicular to the plane of the panel, there being an indicia-carrying projection on the panel below the aperture, and paint indicia on the rear face of the panel below the housing, the indicia being illuminated by light from the lamp transmitted through the panel, the front face of the panel being illuminated by light from the lower face of the housing.



2,651,864
SIGN CONSTRUCTION
James A. Hewenstine, Lima, Ohio, assignor to Neon Products, Inc., Lima, Ohio, a corporation of Ohio
Application November 2, 1951, Serial No. 254,481
5 Claims. (Cl. 40—130)



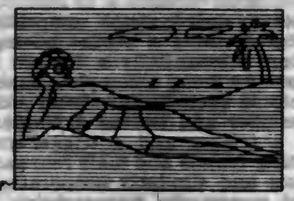
5. A sign which comprises an annular member of transparent light-conducting sheet material having a central cavity, a lamp mounted in said central cavity, said annular member having an outwardly projecting main flange adapted to receive edge light from the lamp, a translucent face plate attached to the annular member and overlying the cavity of the annular member to be illuminated by the lamp, the annular member having a peripheral flange on the outboard edge of the main flange terminating outboard of the face plate in a light-bleeding face to form an illuminated ring outboard of the face plate and facing in the same direction as the face plate.

2,651,865
SIGN STRUCTURE
James A. Hewenstine, Lima, Ohio, assignor to Neon Products, Inc., Lima, Ohio, a corporation of Ohio
Application May 9, 1952, Serial No. 286,955
3 Claims. (Cl. 40—130)

1. A sign which comprises an opaque cup-shaped housing having an outwardly projecting peripheral flange, a dished member of transparent light piping material secured by its base to said housing flange, said dished member having an aperture in the central portion thereof, the edge of said aperture being perpendicular to a cone coaxial with the housing and dished member, a light source in said cone so that said face receives light from said light source, a translucent face plate attached to the housing and to the dished member and overlying the aperture in the dished member to be illuminated by said light source, and a peripheral flange on the dished member terminating outboard of the face plate in a forwardly facing light-bleeding face to form an illuminated ring outboard of the face plate.



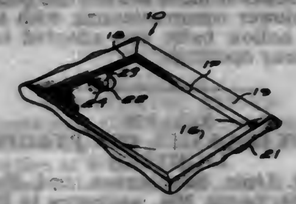
2,651,866
DISPLAY SIGN AND METHOD OF MAKING THE SAME
Ferdyce E. Tuttle, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application July 18, 1950, Serial No. 174,294
10 Claims. (Cl. 40—132)



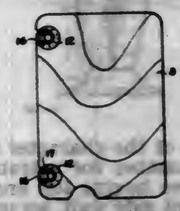
1. A composite display sign of the type described comprising in combination a plane supporting surface, a plurality of narrow, elongated channel-shaped members mounted in side-by-side relation on said supporting surface with their bases engaging said surface, electric lamps disposed in each of said channels, means on the inside wall of each arm of said channels for engaging and retaining the opposite edges of an elongated, narrow film strip, and an elongated, narrow, transparent strip of exposed and processed photographic film held in extended relation across the arms of each of said channels by said film-engaging means on the arms thereof, each of said strips of film constituting a photographic transparency bearing a photographic image depicting a different elongated elemental part of a complete picture and whose length extends completely across one dimension of the picture and whose width is a small fraction of the dimension of the picture orthogonally related to the first-mentioned dimension, said strips of film arranged so that when viewed simultaneously by transmitted light they form the complete picture.

2,651,867
PICTURE FRAME HOLDER
Howard A. Prew, Providence, R. I., assignor to Pru-Lesco, Inc., a corporation of Rhode Island
Application September 1, 1950, Serial No. 183,759
1 Claim. (Cl. 40—153)

A picture frame holder comprising a flexible resilient sheet metal base with a rectangular surrounding wall of resilient material upstanding at right angles thereto of a size and shape to resiliently frictionally engage the edge of a picture frame and hold the same therein and a flange extending outwardly from said wall, said wall being of a dimension substantially the thickness of the picture frame and said base being sufficiently resilient throughout the width and length of the base to be flexed to eject the picture frame from frictional engagement with the walls of the holder.

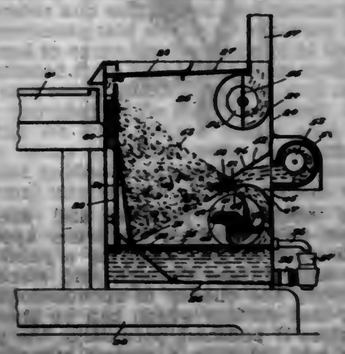


2,651,868
MULTIPLE LEAF PALETTE
John A. Siegel, Detroit, Mich.
Application May 31, 1952, Serial No. 290,983
3 Claims. (Cl. 41—5)



1. A device of the character described, comprising an upright member and a plurality of leaves pivoted thereto, each leaf being removably secured to a plate, a pivot pin connecting each said plate to said upright member, each said plate having an offset portion at one side arranged to engage one face of said upright member to lock said plate and leaf in elevated position when said plate is rocked and then shifted laterally on said pivot.

2,651,869
ETCHING MACHINE
William Guenst, Elkins Park, Pa.
Application April 19, 1950, Serial No. 156,987
3 Claims. (Cl. 41—9)



1. In an etching machine for etching a plate, a receptacle for etchant, a rotary spreader for

distributing etchant over a plate, a support for a plate to be etched at a position opposite the spreader, a hollow baffle above the spreader having spray openings through the baffle directed generally toward the plate, means for turning the spreader to make it move toward the plate at the top and a blower communicating with the interior of the hollow baffle and adapted to supply air to the spray openings.

2,651,870
ORNAMENTAL DEVICE FOR PYROPHORIC LIGHTERS
Sylvester G. Lipic, Sappington, and Herrell R. Morrow, St. Louis, Mo., assignors to Ritepoint Co., St. Louis, Mo., a corporation of Missouri
Application July 24, 1951, Serial No. 238,212
8 Claims. (Cl. 41—10)



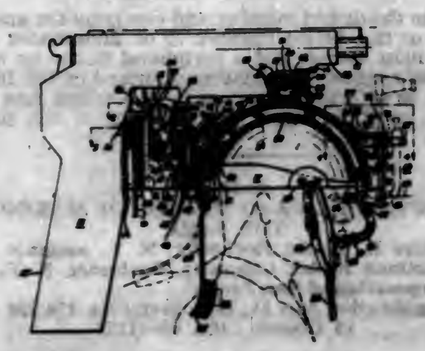
1. In a lighter of the character described having a storage chamber for a transparent liquid fuel, said chamber having top and bottom walls and a transparent side wall, an ornamental pellet in said storage chamber, and a flexible cable connected to said pellet and anchored to one of said top and bottom walls to suspend said pellet for free three-dimensional movement in said liquid fuel.

2,651,871
METHOD OF PAINTING AND DECORATING
Charles P. Lynden, Detroit, Mich.
Application May 21, 1953, Serial No. 356,439
3 Claims. (Cl. 41—26)



1. The method of painting and decorating walls and ceilings which comprises applying a stencil to such surface, applying a paint of one color to such surface through said stencil, said paint having the quality of spontaneously drying to a mat surface which can be changed to show a gloss if polished, permitting the paint to partially set, applying a second stencil to the same surface area, applying paint of the same character but of a second color to said surface through said second stencil, permitting the latter paint to partially set, applying a third stencil to the same surface area, and brushing the paints through the silhouette of said third stencil without removal of said paints to obtain a darker tone at the polished areas for each color of paint applied.

2,651,872
HELMET MOUNTED PISTOL
Albert B. De Salardi, Wilkinsburg, Pa.; Mary De Salardi, administratrix of said Albert B. De Salardi, deceased
Application February 14, 1949, Serial No. 76,288
8 Claims. (Cl. 42—1)
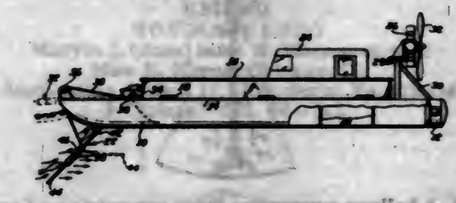


1. Helmet mounted pistol comprising a support member forming a helmet having a cavity for encasing substantially a human head and a pistol member being a complete repeating pistol operable as such by one hand without said support member and having a frame, a barrel, a handle, a trigger and a trigger-guard, slidingly coacting female and male rearward attachment means and similarly cooperating forward attachment means, the former being located in the proximity of said trigger and including a bracket fixed to said support member and having a hollow, upwardly protruding lug, the latter being located adjacent to the forward portion of said barrel, resilient locking means tending to keep said female and male attachment means assembled, firing means, independent from and unattached to said pistol member and carried by said support member, said firing means including a finger lever mounted oscillatably between ineffective and effective positions substantially in said hollow lug and extending in its ineffective position close to the operative side of said trigger, pressure exerting means and resilient return means, both of which being carried by said support member and to both of which said firing means are responsive, said pressure exerting means being energizable by human muscular action and being resiliently opposed by said return means whereby the energized pressure exerting means oscillates said finger lever from its ineffective into its effective position depressing said trigger and firing said pistol member and said return means restores said firing means to its ineffective position when said pressure exerting means is deenergized, said attachment means fasten said pistol member entirely outside of said support member, free and visible in the atmosphere, said support member shielding the therein encased human head from the effects of firing said pistol member and preserving the moral effect thereof by total and prominent display of it, outside of said support member.

2,651,873
MOLDED DECOY
Arthur H. Risch and Arthur J. Nelsen, Wauwatosa, Wis., assignors to Pulp Reproduction Company, Milwaukee, Wis., a corporation of Wisconsin
Application December 14, 1950, Serial No. 200,706
3 Claims. (Cl. 42—3)



3. An aquatic hunters' decoy comprising, a hollow molded pulp body having a top opening, a head having a neck portion penetrating the top opening of said body to normally seal the same, and means for maintaining said head in seated position on said body to seal said top opening while permitting rotation of said head relative to said body, said body having a similar external surface contour over an extended front portion thereof and having a dissimilar surface contour rearwardly of said top opening, and said head having the lower external surface of its front portion of a contour substantially corresponding to the adjacent external surface of the front portion of the body whereby those portions will remain in substantially contacting slidable relation when the head is turned relative to said body while relative rotation thereof is limited by the body portion of dissimilar contour.

2,651,874
FISHING VESSEL
Ellis W. Key, Eastside, Oreg., assignor of one-half to Earle E. Mandle, Seattle, Wash.
Application June 13, 1949, Serial No. 98,837
1 Claim. (Cl. 42—6.5)



Fishing apparatus comprising a grid-like deflector generally of flat construction and having an articulated frame structure comprising upper and lower, hingedly interconnected sections, each supporting a grid formed by closely spaced parallel rods extending between opposite sides thereof but otherwise substantially open, stress-relief means normally interconnecting said frame sections to restrain swinging thereof, but yieldable to permit swinging of the lower section relative to the upper section when subjected to excessive stress tending to produce such swinging, means supporting said deflector to project, from a location close to the surface of the water, downwardly into the water at an acute angle of inclination to the water's surface in the direction of said parallel elements, and means to propel said supporting means and the deflector, thus supported, through and along the surface of the water, in the sense of the deflector's downward inclination, at a speed sufficiently high to intercept and wash fish upwardly and over the top of the deflector as a result of such speed and the inclination of the deflector, said supporting means including a receiver adjoining and aft of the top of said frame to receive such fish.

2,651,875
ICE FISHING TIP-UP
Ray E. Breckman, Chicago, Ill., assignor to Frabill Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application October 20, 1949, Serial No. 122,519
4 Claims. (Cl. 42—17)



4. In a fishing tip up the combination with an ice hole spanner comprising spaced support members and a normally upright member pivotally supported between said spaced members and foldable into substantial parallelism with said support members, said upright being provided with a spring indicator carried at its upper end, said spring having a hook at its upper end and being longitudinally adjustable with respect to said upright, said upright being supported on said spanner members for projection above and below the ice, of a detent mounted in offset spaced relation near and at one side of the upper end of said upright member and engageable with the hooked end of said spring indicator when said spring is looped downwardly against its resilient bias, a trigger mechanism comprising a rod disposed longitudinally of said upright member between said member and said detent and having a forked hook proximate said detent to embrace the said spring end to cause the hooked end of the spring to be released from the detent upon rocking motion of said rod in either direction, said rod being further provided at its end operatively disposed below the ice level with a crank, said upright member being provided with a longitudinally channeled guideway extending above and below the normal intersection of said upright with the water level, said trigger rod being laterally confined and rockable on its longitudinal axis within said channel, said channel being substantially filled by said rod and a low freezing temperature lubricant, said upright being further provided below said guideway and proximate the trigger crank with a spool having a mounting axle on the same side of the upright member as the detent and carrying a fish line wound thereon and having a striker engageable with said crank upon

substantial rotation of said spool resultant from the unwinding of said fish line to rock said rod on its longitudinal axis.

2,651,876
FISHING LURE
Marvin C. Kohler and Walter H. Todd, Merced, Calif.
Application October 20, 1947, Serial No. 780,996
5 Claims. (Cl. 43—42.22)



1. In a fish lure the combination of a body, a hook construction connected with the body, a bearing fixedly connected with the body, and extending forwardly thereof and providing a transverse bearing opening, a shaft rotatably supported in said bearing opening, means to contract the bearing opening upon the shaft to hold it rigid against rotation in the bearing, and vanes connected upon the ends of the shaft laterally of the bearing.

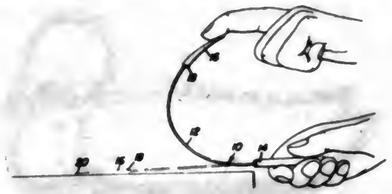
2,651,877
WEEDLESS HOOK AND LURE
Hans P. Olson, Racine, Wis.
Application October 13, 1950, Serial No. 189,941
1 Claim. (Cl. 43—42.41)



A fish lure comprising an elongated body, and a hook including a shank, an eye, a bight portion and a barb, a screw eye threaded into the extreme forward end of said body, a depending bracket on the forward end of the body having its upper end secured to said screw eye and having a depending loop on its lower end receiving the eye of the hook, an expansion spring coiled about said bracket and confined between the body and the eye of the hook for normally holding the hook in a lowered position with the barb engaging a part of the body, and a guard plate secured on the forward end of the body by said screw eye, said screw eye having its shank passing through the said bracket and said guard plate and into said body and said guard plate being disposed directly in front of the bracket and spring and against said bracket.

2,651,878
NOVELTY FLY SWATTER
Carl Webbeking, Cleveland, Ohio
Application March 13, 1950, Serial No. 149,273
1 Claim. (Cl. 43—137)

A fly swatter of substantially the length of a hand of a human, said fly swatter comprising a handle of greater length than width, its length and width being sufficient to enable gripping thereof by two or more fingers and the thumb of one hand, a paddle of a width substantially corresponding to the width of a human finger and of a length not less than the distance from the free end of the finger to the first joint thereof, said paddle having a cross section longitudinally giving the paddle a wedge-shape with the point of the wedge at the free end thereof, and a leaf spring having one end thereof embedded in the paddle at the thicker end thereof, its opposite end being embedded in the handle, the leaf spring, handle, and paddle being of such length that an operator may support the handle with one hand



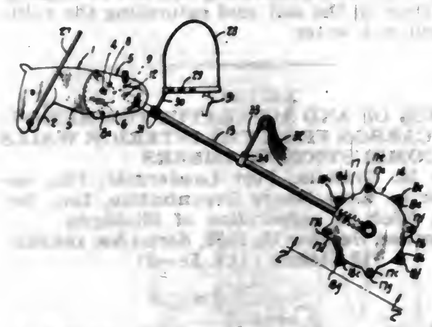
and flex the leaf spring by placing and pressing a finger against the paddle so that the paddle will be within approximately a finger's distance from and substantially above the handle for release by the latter finger to permit the paddle to strike an object substantially in line with the handle and paddle and within the limits of a distance from the first hand to the object substantially corresponding to the length of the fly swatter.

2,651,879
BALLOON STICK
Hugh A. Longino, O'Donnell, Tex.
Application December 21, 1951, Serial No. 262,840
3 Claims. (Cl. 46—88)



1. A balloon supporting stick comprising a handle having a bore therethrough, said handle adapted to be inserted into the neck of a balloon, a sleeve having slots therein extended from one end of the handle and the sleeve and slots communicate with the bore of the handle, a rod having grooves therein which communicates with the bore of the handle slidably mounted in said sleeve, a vacuum cup carried by the rod, a washer having inlet openings therein positioned in the handle in communication with the bore of the handle, and a cap having inlet openings therein threaded on the end of the handle opposite to that from which the sleeve extends and adapted to be rotated so that the inlet openings in the cap and washer are in alinement to permit the entrance of air into the bore of the handle or rotated so that the inlet openings in the cap and washer are out of alinement to seal the bore through the handle.

2,651,880
HOBBYHORSE
Earl M. Kennedy, Cleveland, Ohio
Application January 21, 1952, Serial No. 267,419
6 Claims. (Cl. 46—98)



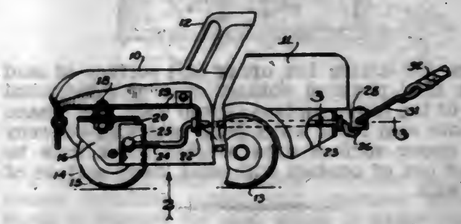
1. A hobby horse of the class described, comprising, in combination, a body unit, a head unit connected to the body unit, and a traction wheel unit associated with the body unit for supporting the lower end of the hobby horse upon a traction surface, said wheel unit comprising an axle, transversely spaced wheels one secured to each end of said axle whereby the wheels are rotatable together as a unit, each wheel having a plurality of peripheral legs extending radially outwardly a substantial distance from the periphery of the respective wheel and equidistantly spaced circumferentially of the respective wheel, each leg provided with a traction surface engaging metal shoe, the circumferential spacing of said legs being such that said shoes of no more than two legs of either wheel will engage the traction surface at any given time, the legs of one wheel being circumferentially displaced angularly with respect to the legs of the other wheel, in such a manner that each shoe of each wheel will engage the traction surface intermediate the engagement of adjacent shoes of the other wheel with said surface during rotation of said wheels.

2,651,881
TOY KANGAROO
Marvin I. Glass, John W. Ehemann, and Max R. Kraus, Chicago, Ill.
Application August 14, 1950, Serial No. 179,146
3 Claims. (Cl. 46—123)



1. A toy device comprising a body in the representation of a kangaroo, said body having an open ended chamber and an opening corresponding to the pouch of a kangaroo through each of which a projectile may be passed, said body supported on leg members pivotally attached thereto, a receptacle for said projectile carried on said leg members and adapted to register alternately with said chamber and said opening, a hammer member pivoted in said body and having a hammer head arranged to register with an opening in the bottom of said receptacle so as to impinge on a projectile contained therein, said hammer being operatively associated with said legs so that when said leg members are rocked in one direction a projectile will be deposited within said receptacle and said leg members upon being rocked in the opposite direction causing said hammer head to impinge on said projectile to project the same through said opening.

2,651,882
TOY VEHICLE AND STEERING MEANS THEREFOR
Thomas H. Core, Glendale, Calif.
Application February 23, 1950, Serial No. 145,860
3 Claims. (Cl. 46—201)



1. In a toy vehicle and steering means therefor, a toy body, a horizontal frame fixed in the forward portion of said toy vehicle, a member pivoted to swing in a horizontal plane on said horizontal frame, a wheel carrying axle journalled in said pivoted member rearwardly and below the pivot therefor, a pair of spaced vertical walls on the rear portion of said pivoted member to the rear of said wheel carrying axle and below the pivot therefor, a longitudinally disposed steering shaft journalled in the lower portion of said toy body, a depending crank on the forward end of said shaft, a ball on the forward end of which crank which ball is positioned between said spaced walls, and an operating handle flexibly connected to the rear end of said shaft.

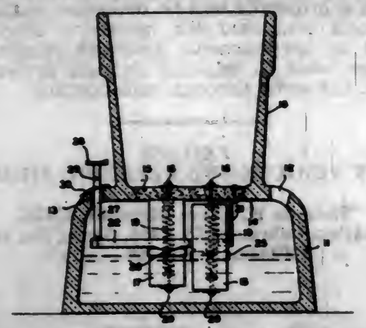
2,651,883
PELLETED SEED PRODUCT
Ross M. Hedrick and David T. Mowry, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application June 26, 1952, Serial No. 295,246
The portion of the term of the patent subsequent to January 13, 1970, has been disclaimed and dedicated to the public
15 Claims. (Cl. 47—1)

1. A pelleted seed product comprising a seed having adhered thereto a composition including a polymeric water-soluble polyelectrolyte having a weight average molecular weight of at least 10,000, and having a structure derived by the polymerization of a monoolefinic compound through the aliphatic unsaturated group.

2,651,884
SELF-IRRIGATING PLANT RECEPTACLE
John E. Werner, Columbiana, Ohio
Application December 2, 1949, Serial No. 130,710
4 Claims. (Cl. 47—33)

1. In a self-irrigating plant receptacle having a lower water reservoir and an upper chamber for potting soil the combination of a bottom wall

for said chamber formed of porous material capable of transmitting water by capillary action, a depending water transmitting block of similar material positioned below said bottom wall and adapted to have its lower end portion immersed in the water in said reservoir, said block having an upper end surface of substantial area, resilient



means for urging the upper end surface of said block into physical contact with a substantial area of the lower surface of said wall, and means to move said block away from said wall whereby said upper surface area of said block may be moved out of contact with said lower surface of said wall.

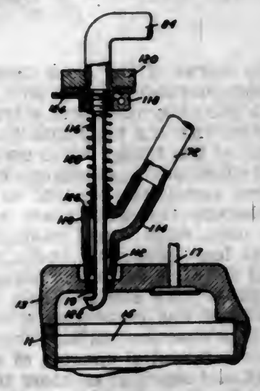
2,651,885
METHOD OF CONDITIONING AGRICULTURAL SOIL AND GROWING PLANTS THEREIN
Ross M. Hedrick and David T. Mowry, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application June 26, 1952, Serial No. 295,844
The portion of the term of the patent subsequent to January 13, 1970, has been disclaimed and dedicated to the public
19 Claims. (Cl. 47—58)

8. The method of growing plants which comprises establishing a living plant structure in a surface soil subject to slaking and erosion which soil has been previously cultivated to form unstable aggregates and subsequently to the cultivation stabilizing the aggregates by contacting them with a water solution of a synthetic water-soluble polymeric polyelectrolyte containing a substantially linear structure derived by the polymerization of a monoolefinic compound through aliphatic carbon to carbon unsaturation and having a molecular weight such as to improve the water-stability of the aggregates in the said soil.

2,651,886
METHOD OF CONDITIONING AGRICULTURAL SOIL AND GROWING PLANTS THEREIN
David T. Mowry and Ross M. Hedrick, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application June 26, 1952, Serial No. 295,845
The portion of the term of the patent subsequent to January 13, 1970, has been disclaimed and dedicated to the public
19 Claims. (Cl. 47—58)

1. A method of conditioning agricultural soil with polymers having weight average molecular weights greater than 10,000, and a substantially linear structure derived by the polymerization of a mono-olefinic compound through the aliphatic unsaturated group, said polymer being selected from the class consisting of water-soluble polyelectrolytes and polymers which react with soil moisture to generate water-soluble polyelectrolytes, which comprises spreading the solid polymer on a dry soil, cultivating the soil to disperse the polymer in the soil, and saturating the cultivated soil with water.

2,651,887
PROCESS OF AND APPARATUS FOR REMOVING CARBON FROM THE INTERIOR WALLS OF COMBUSTION CHAMBERS
George M. Graham, Fort Lauderdale, Fla., assignor to Kent-Moore Organization, Inc., Detroit, Mich., a corporation of Michigan
Application October 18, 1950, Serial No. 190,328
19 Claims. (Cl. 51—8)

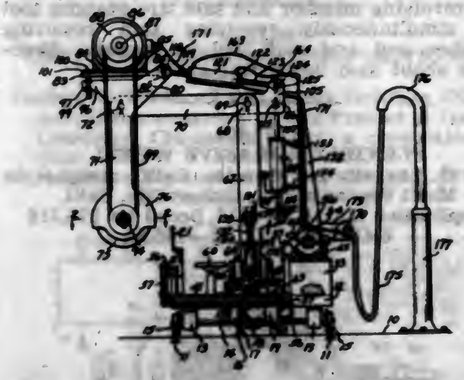


1. Apparatus for removing carbon particles from the head of a cylinder of an internal combustion engine, which cylinder is provided with an opening through its wall comprising, in combination, a granule discharge chamber, a granule delivery line leading from the chamber and terminating in a discharge nozzle receivable through the cylinder wall opening, a granule return line provided with a resistingly deformable tubular end fitting surrounding in spaced relation the discharge nozzle and adapted to communicate with the cylinder wall opening, said discharge nozzle being supported for rotatable and axial slidable movement within the end fitting and spring means exerting axial pressure on the discharge nozzle relative to the end fitting, and air blast mechanism adapted to project granules from the discharge chamber through the delivery line leading therefrom and through the discharge nozzle.

2,651,888
SNAGGING GRINDER
George E. Comstock 3d, Holden, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application May 13, 1952, Serial No. 287,530
8 Claims. (Cl. 51—33)

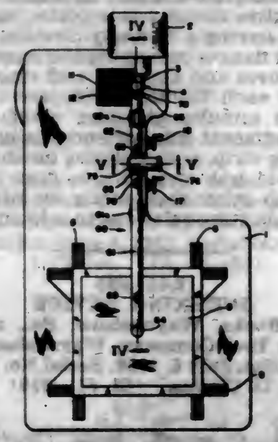
1. A snagging grinder comprising a rock shaft, an inverted pendulum mounted on said rock shaft, an overhead lever articulated to said inverted pendulum at a point well above said rock shaft said overhead lever extending in a horizontal direction well away from said inverted pendulum, a depending lever articulated to said overhead lever at a point well removed from the point of articulation of said overhead lever in said horizontal direction, a grinding wheel shaft mounted in said depending lever at a point well

below its articulation to said overhead lever, whereby a grinding wheel on said shaft can be tilted by moving said inverted pendulum, said grinding wheel can be raised or lowered by moving said overhead lever and said grinding wheel



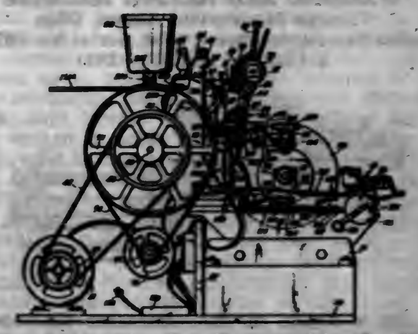
can be moved forwardly and rearwardly by moving said depending lever, power means to move said overhead lever to raise the grinding wheel, and power means to move and to hold said depending lever.

2,651,889
APPARATUS FOR CUTTING MATERIALS
Charles M. Hannum, Birmingham, Mich., assignor, by mesne assignments, to Kopti-Kut Company, Detroit, Mich.
Application September 23, 1950, Serial No. 186,465
10 Claims. (Cl. 51—100)



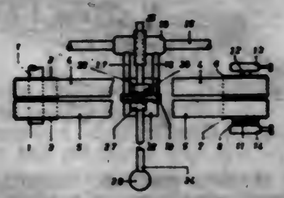
8. In a device of the character described, means for movably supporting a blank to be finished to a given size and shape relative to a tool, means for movably supporting a master of greater size than the finished blank, a connection between said blank supporting means and said master supporting means for moving said blank supporting means at a different rate of travel than said master supporting means by movement of said master supporting means, an optical system for projecting a magnified image of the cutting face of the tool and the blank into a plane where it can be viewed by the operator, an optical system for projecting an image of said master in superimposed relation on the tool cutting face image, the difference in rate of travel of said blank supporting means and said master supporting means being in proportion to the difference in size of optical magnification between said master image and said tool cutting face image, and means for moving said master supporting means.

2,651,890
AUTOMATIC EDGE GRINDING MACHINE FOR LENSES
Robert Rubinstein, Brooklyn, N. Y.
Application December 11, 1951, Serial No. 261,979
18 Claims. (Cl. 51—101)



1. In a lens edge beveling machine having a rotary grinding wheel with opposed grinding faces, a support for said wheel, a motor for rotating the grinding wheel, and a support for said motor a rotary lens holder for supporting a lens in grinding relation to the grinding wheel, means for rotating said lens holder, means for pivotally supporting said lens holder on an axis extended at right angles to the axis of rotation of said lens holder to assure a position in which the lens supported in said lens holder will be engaged with one of the grinding faces of the grinding wheel, and means operatively coupled to said lens holder and actuated by rotation thereof for pivoting said lens holder at certain predetermined times for engaging the lens, supported in said lens holder with the other grinding face of the grinding wheel.

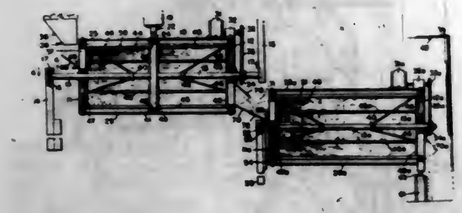
2,651,891
BELT SANDING MACHINE
Selvej Johannsen and Hans Christian Johannsen, Rattenberg (Eider), Germany
Application March 27, 1951, Serial No. 217,694
In Germany April 3, 1950
3 Claims. (Cl. 51—135)



1. A belt sanding machine of the kind having two sanding belts arranged side by side and travelling in opposite directions, comprising a rocking bracket, a two-armed swinging member mounted on said rocking bracket and extending above the lower flights of said belts, two presser shoes pivotally mounted one at each end of said two-armed swinging member and one above each of said belts, a single handle rod rotatably mounted in said rocking bracket, and elements extending laterally from said handle rod and capable of engaging said two-armed swinging

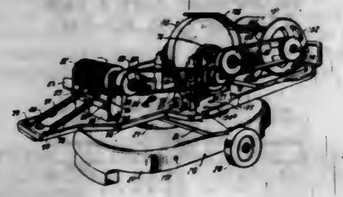
member, the arrangement being such that by swinging said handle rod up and down said rocking bracket is rocked and thereby said two-armed swinging member is bodily raised and lowered and by rotating said handle rod said elements engage said two-armed swinging member and thereby the latter is caused to swing and thereby alter vertically the relative positions of said presser shoes one to the other.

2,651,892
WASHING AND DRYING MACHINE
George Markovich, Akron, Ohio
Application September 4, 1952, Serial No. 307,754
3 Claims. (Cl. 51—164)



1. In a device of the character described, a washer drum comprising an elongated cylindrically shaped frame, a pair of stationary drumheads secured one to each end of said frame, a feed port in one of said pair of drumheads and a discharge port in the other, a hinged door on each of said ports, an annular channel on each of said drumheads inwardly disposed and adapted to receive an annularly shaped support member with relatively rotary movement therebetween, a mesh cylinder disposed within said frame attached to a pair of annular support members one at each end thereof, each of said annular support members being rotatably positioned in its associated annular channel in a drumhead, and driving means for said cylinder including an attached axle rotatably supported at each end in said drumheads.

2,651,893
TIRE SHAPING MACHINE
James H. Braley, Sacramento, Calif.
Application June 16, 1950, Serial No. 168,580
6 Claims. (Cl. 51—179)



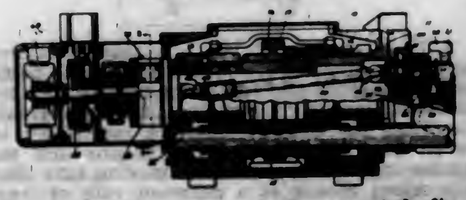
1. A tire shaping machine comprising a base having a longitudinal axis; a bearing plate slidably mounted on said base for movement parallel to said longitudinal axis; means connected to said base and said bearing plate for selectively slidably moving said bearing plate parallel to said longitudinal axis; a carriage plate on said bearing plate pivotally secured to said bearing plate for pivotal movement about a vertical axis; a supporting member mounted on said carriage plate for pivotal movement about a horisontal axis; a resilient member biasing said supporting member to an upper position; a tire revolving member mounted on said supporting member for rotary movement about a horizontal axis parallel to said first mentioned horizontal axis; a tire shaping tool mounted on said carriage for rotary movement about a horizontal axis parallel to said first mentioned horizontal axis; and a motor on said carriage plate connected to said tire revolving member and said tire shaping tool for simultaneously revolving said revolving member and and said tool in opposite directions about said horizontal axes.

2,651,894
FLEXIBLE ABRASIVE WHEEL
Guy O. Leggett, Los Angeles, Calif., assignor to Merit Products, Inc., Culver City, Calif.
Application March 13, 1952, Serial No. 276,316
2 Claims. (Cl. 51—193.5)



1. A flexible abrasive wheel comprising an annular pack of superimposed flaps having face portions coated with abrasive material, a strip of sheet material adhered to and binding said flaps together at their ends where said flaps border the space at the center of the annular pack, there being two oppositely disposed grooves in the side edges of said flaps circumjacent to said binding strip, a ring occupying the bottom portion of each of said grooves and inwardly spaced from the mouth of the groove, a hub structure comprising two concentric circular side plates, each of said side plates having a laterally directed peripheral flange, said flanges occupying the mouth portions of said grooves and abutting said rings, said side plates also each having circumjacent to its periphery an annular shoulder which internally abuts the adjacent side edge portion of the aforesaid binding strip, and clamping means extending through said hub structure to draw said plates toward each other thus firmly maintaining said flanges in abutting relations to said rings.

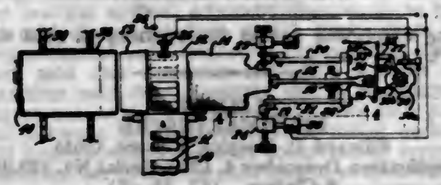
2,651,895
INDEXING DEVICE
Hugh N. Rocks, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa.
Application July 6, 1950, Serial No. 172,257
13 Claims. (Cl. 51—216)



1. In a machine for grinding crankshafts, a pair of headstocks, each having a spindle, a clamping fixture rotatably mounted thereon for holding a crankshaft eccentrically whereby to rotate the shaft about the axis of one of said pins, means for rotating said spindle and fixture, means for indexing said shaft angularly in said fixture, including an index plate eccentrically mounted relative to said spindle axis and having

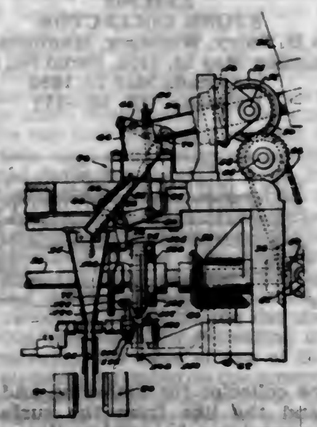
connection between said index plate and said crank shaft, a shaft rotatably mounted in the outer end of said spindle and having a braking mechanism thereon, said second shaft connecting said index plate and said first mentioned shaft.

2,651,896
CONTAINER OPENING AND POSITIONING MACHINE
George M. Woodruff and Henry Heitlage, Cincinnati, Ohio, assignors to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio
Application September 2, 1947, Serial No. 771,692
15 Claims. (Cl. 53—45)



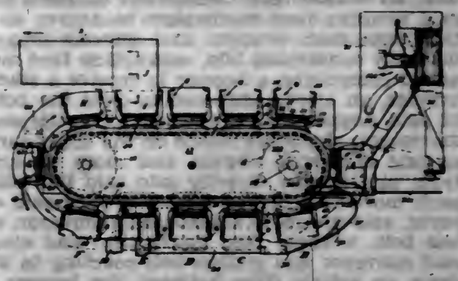
1. For use with a case packing machine having a funnel and a plunger for pushing rows of packages through said funnel, said plunger having a cycle of operation in which it makes a number of short feeding strokes one less than the number of rows of packages to be packed in said case, followed by a long packing stroke; an apparatus for successively presenting cases to said funnel in condition for packing in timed relation to the operation of said plunger, said apparatus comprising a number of intermittently operating mechanisms, a drive for said mechanisms including a one-revolution-clutch, and means operative in response to said long packing stroke of said plunger for actuating said one-revolution-clutch to cause said mechanisms to perform their functions.

2,651,897
CONTAINER FORMING AND FILLING MACHINE
Stanley R. Howard, Milton, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application June 4, 1947, Serial No. 752,544
1 Claim. (Cl. 53—89)



In a bag forming and filling machine; bag forming means including means for advancing a strip of connected bag sections a predetermined distance into filling position at each cycle of operation, material feeding means arranged a substantial distance above a bag in position to be filled for feeding a continuous stream of bag filling material at a predetermined rate, guiding means for guiding said stream as it descends by gravity into said bag, a first shutter adjacent said bag and movable into a closed position to interrupt said stream and accumulate material in said guide means, a second shutter adjacent said material feeding means and movable into a closed position to interrupt said stream, and means for alternately moving said shutters to and from their closed positions, said last named means being so constructed and arranged as to operate in timed relation to said strip advancing means to position said first shutter in said stream interrupting position while a bag section is being moved into said filling position and to move said shutter from said position before it accumulates a bag-filling charge of material to thereby dump accumulated material in said bag section and permit said stream to resume flowing into said bag until a bag-filling charge flows therepast, said last-named means being further constructed and arranged to move said second shutter to and from said stream interrupting position and to hold the same out of said position while a bag-filling charge of material flows therepast.

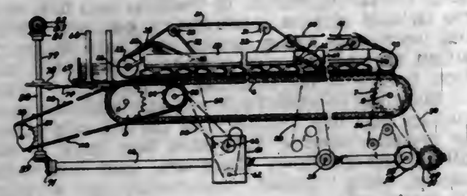
2,651,898
APPARATUS FOR PACKING AND SEALING SHIPPING CASES
Wallace D. Kimball, Middle Haddam, Conn., assignor, by mesne assignments, to Emhart Manufacturing Company, a corporation of Delaware
Original application April 12, 1941, Serial No. 388,284, now Patent No. 2,490,878, dated November 18, 1947. Divided and this application November 14, 1947, Serial No. 785,892
3 Claims. (Cl. 53—91)



1. In a machine of the class described, an endless step-by-step operated conveyor for advancing squared-out case blanks having flaps extending in the planes of the side and end walls upwardly from the top and downwardly from the bottom thereof, said endless conveyor having equally spaced case holders each comprising pairs of arms spring biased towards one another to grasp a case blank, mechanism for squaring out and inserting case blanks successively into said respective case holders, means timed with said mechanism for automatically opening and closing said arms to receive and hold such blank, said endless conveyor having associated therewith devices for folding the inner bottom case flaps from the planes of said end walls to closed position and the outer bottom flaps from the

planes of said side walls outwardly to horizontal position at right angles to the case blank, mechanism for thereafter packing articles therein, mechanically operated gluing means for applying adhesive to the outer bottom and top flaps, and means for closing and sealing the bottom and top flaps.

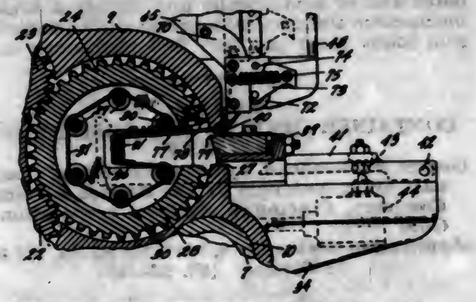
2,651,899
BOOK AND WRAPPER FEED MECHANISM FOR WRAPPING MACHINES
Raymond E. Ackley, Evanston, Ill., assignor to W. F. Hall Printing Company, Chicago, Ill., a corporation of Illinois
Application April 20, 1950, Serial No. 157,149
3 Claims. (Cl. 53—98)



3. In an apparatus for applying a band of wrapping paper around an article, an endless conveyor having its entire upper flight formed and disposed to receive and support a wrapper having an article mounted thereon, an endless belt having its lower flight engaging and extending along the upper flight of said conveyor to coact therewith in holding each wrapper and article against relative movement, the front end of said endless belt being disposed directly above and adjacent the front end of said conveyor to define therewith an inwardly converging bite to receive and engage an article and wrapper assembly for movement through the apparatus, a wrapper feed mechanism to deliver one wrapper at a time directly into said inwardly converging bite, an article feed mechanism disposed above said wrapper feed mechanism to deliver an article onto each wrapper and directly into said inwardly converging bite, said article feed mechanism comprising a hopper to receive a stack of articles, an ejector disposed to close the bottom of said hopper and supported for reciprocative movement, abutment means on the upper surface of said ejector to engage and move an article from said hopper directly into said bite during each movement of the ejector toward said conveyor, and means to actuate said conveyor, endless belt, wrapper feed mechanism and ejector, said conveyor and endless belt coacting to withdraw an article from between the hopper and ejector.

2,651,900
WRAPPING MACHINE
Bernard Heilman, Detroit, Mich., assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich.
Application July 5, 1951, Serial No. 235,511
15 Claims. (Cl. 53—98)

15. A machine for wrapping articles comprising, a base, a wrapper roll rotatably mounted on said base, said roll having a radially extending slot formed therein and adapted to receive the article to be wrapped in the center of rotation of the roll, means forming an axially extending guide mounted on said wrapper roll and annularly spaced around the axis of rotation thereof, said support having an opening therein registering with the slot in said roll, and an elastic band trained around said support with one reach of the



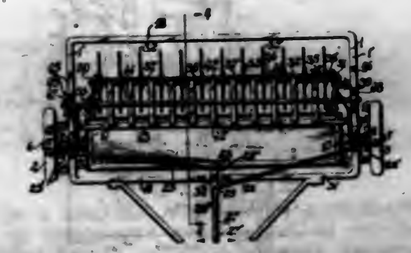
band extending across the opening in said support.

2,651,901
BEET HARVESTER
Edward C. Roepke, Elmore, Ohio
Application December 4, 1950, Serial No. 199,683
6 Claims. (Cl. 56—9)



1. A root crop harvester comprising: a frame guide means for attachment to the rear of a tractor, a lifter for the roots having a vertically extending portion vertically adjustable in said guide means, a mobile trailer pivotally attached to said frame guide means at a point vertically above said lifter, and a pick-up mechanism for the lifted roots mounted on said trailer, said pick-up mechanism including a conveyor which extends downwardly and forwardly from said trailer to a point adjacent the rear portion of said lifter whereby the forward end of said conveyor always trails said rear portion of said lifter regardless of the angular position between the tractor and said trailer.

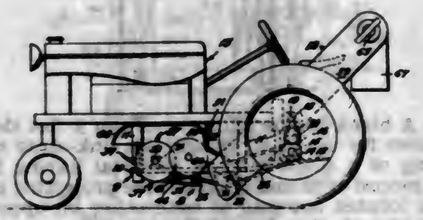
2,651,902
STONE COLLECTOR
William H. Curry, Winnipeg, Manitoba, Canada
Application May 14, 1951, Serial No. 226,173
In Canada May 11, 1950
1 Claim. (Cl. 55—17)



A stone collector for gathering and collecting stones and the like from the surface of the ground comprising in combination a substantially rectangular framework including two opposing side members and front and rear members, ground-engaging wheels journalled for

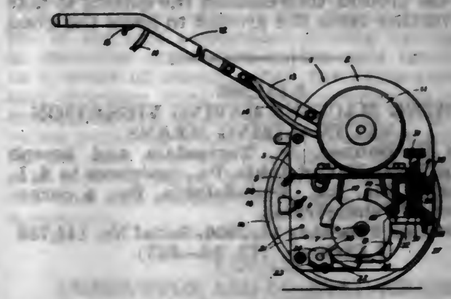
rotation upon each of said side members of said framework, a stone gathering disc assembly suspended from said framework, a trough also suspended from said framework, parallel to said stone gathering assembly, means connected to said disc assembly and cooperating therewith to disengage stones from said disc assembly and deposit same within said trough, said stone gathering disc assembly including a pair of cantilever arms pivotally secured at one end thereof to the said side members of said framework, a shaft journalled for rotation between the opposite ends of said arms, a plurality of discs rotatably mounted upon said shaft, spacers separating said discs rotatably mounted upon said shaft, compression springs surrounding said spacers and bearing against adjacent discs so as to permit said discs to deflect within limits from the perpendicular, said means for disengaging stones from said disc assembly including a cross bar spanning said disc assembly and a plurality of fingers extending from said cross bar to a position between adjacent discs, the distal ends of said fingers resting on said compression springs, said cross bar overlying said trough so that stones picked up by adjacent pairs of discs strike said fingers and roll forwardly down said fingers to be deposited in said trough.

2,651,903
COTTON STRIPPING MACHINE
Thomas H. Rias, Cleburne, Tex., assignor to Florene Stokes, Dallas, Tex.
Application April 21, 1950, Serial No. 157,223
3 Claims. (Cl. 56—11)



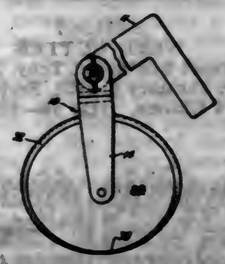
1. In a cotton harvester, a stationary shaft, said shaft having an eccentric portion adjacent each end thereof, a plurality of cotton stripping elements swingably mounted on each of said eccentric shaft portions and each including a bar having longitudinally spaced aligned journal eyes disposed in offset relationship to one longitudinal edge of the bar and journaled on said eccentric shaft portion and a plurality of longitudinally spaced tines extending laterally from the opposite longitudinal edge of the bar, a pair of drums supported by the shaft, each drum enclosing one of said eccentric shaft portions and being journaled on portions of the stationary shaft disposed beyond the ends of said eccentric shaft portion, and driving means connected to each drum for revolving the drums on the shaft, each drum having longitudinally extending slots each slidably engaging the tines of one of the cotton stripping elements mounted on the eccentric shaft portion enclosed by said drum whereby the cotton stripping elements will be revolved with the drum and eccentrically thereof so that the tines will be projected and retracted relatively to the periphery of the drum through said slots during each revolution of the drum.

2,651,904
ADJUSTABLE CUTTER BAR FOR LAWN MOWERS
Franklin W. Jatzun, Sacramento, Calif.
Application November 3, 1951, Serial No. 254,744
3 Claims. (Cl. 56—249)



1. A cutter bar assembly for a lawn mower which includes a transverse, wheel-supported frame structure having side members, a cross plate extending therebetween, a central block secured to the plate at its forward end, and a rotor extending between and journaled on the side members below and back of the block; said assembly comprising a transverse cutter bar cooperating with the rotor at substantially the low point thereof, pivot means connecting the cutter bar at its ends to the side members and disposed rearwardly of said low point, rigid arms rigid with and projecting forwardly from opposite ends of the cutter bar below the axis of the rotor and between said rotor and the side members, a rigid cross bar connecting the arms ahead of the rotor and disposed below the block, and a vertical adjustable stop screw threaded through said block and bearing at its lower end on the cross bar centrally of its ends.

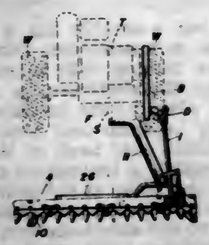
2,651,905
LAWN EDGE TRIMMER AND WEED PULLER
Ernest Schlueter, Troy, N. Y.
Application March 21, 1951, Serial No. 216,837
2 Claims. (Cl. 56—255)



1. A lawn edge trimming and weed pulling device comprising a fork having arms and having a handle for pulling or pushing; a pair of disks rotatably mounted on the arms of the fork at an acute angle to each other, each disk having an outer face, said disks having peripheral flanges overlapping flat against each other at a point of contact and having cutting edges; whereby forces tending to separate the disks at said point, urge said edge of the inner flange against the face of the outer flange; whereby pulling or pushing the device with said point lowermost causes said edges and faces substantially at said point to meet grass or weed substantially perpendicularly close to the ground to cut grass close to the ground;

and a removable gauge ring removably secured around the peripheral margin of the outer face of the disk carrying the outer flange and projecting outwardly equal distances from the axis of the such disk for holding the disk a distance from the ground while the ring frictionally engages the ground, thus causing the cutting to take place further from the ground to leave the grass longer.

2,651,906
MOWING MACHINE HAVING VIBRATION NEUTRALIZING MEANS
Edwin K. Bonner, Jr., Torresdale, and Joseph John Vezzi, Philadelphia, Pa., assignors to S. L. Allen & Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application February 17, 1950, Serial No. 144,756
2 Claims. (Cl. 56—257)



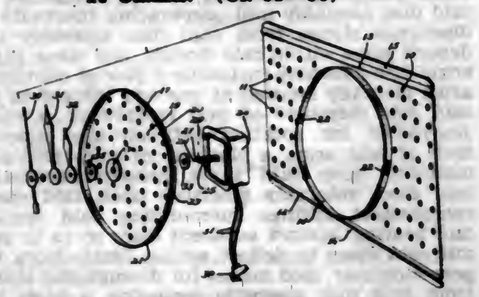
1. In a mower having a reciprocal cutting blade, a plate supporting the blade, an oscillatory drive shaft mounted proximate the plate and means including an arm projecting radially from the shaft operative to reciprocate the blade upon oscillation of the shaft, that improvement which comprises a guide carried by the plate, a bar slidable in the guide parallel to the blade, a second arm projecting radially from the shaft in diametrically opposed relation to the first arm, and a positive driving connection between the second arm and the bar whereby to reciprocate the latter in out-of-phase relation to the blade upon oscillation of the shaft.

2,651,907
WEED CUTTER
Ernest Schlueter, Troy, N. Y.
Application January 6, 1951, Serial No. 204,702
4 Claims. (Cl. 56—257)



1. A cutter comprising a roller provided with a longitudinal diametrical guide way extending substantially through the roller; a longitudinal blade of a width somewhat greater than the diameter of the roller, slidably disposed in the guide way and provided with cutting side edges and near the ends with diagonal slots inclined in the same direction; a short shaft passing through and projecting from each slot and having projecting ends, the roller being provided with bores receiving said projecting ends; and anti-friction rollers rotary on each shaft in each associated slot.

2,651,908
WALL MOUNTING FOR CLOCKS
Loren K. Fargo, St. Paul, Minn.
Application March 16, 1951, Serial No. 216,009
10 Claims. (Cl. 58—56)



1. A clock mounting including a panel designed for attachment between supports, a rim projecting from said panel, a pan shaped support removably engaged within said rim, and a clock mechanism secured to said removable support.

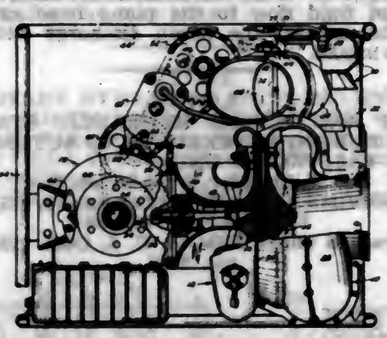
2,651,909
EXPANSIBLE LINK STRAP
Emil Kiefer, Pforzheim, Germany, assignor to Richard A. Kiefer, Elberon, N. J.
Application April 10, 1951, Serial No. 220,255
In Germany October 4, 1948
3 Claims. (Cl. 59—79)



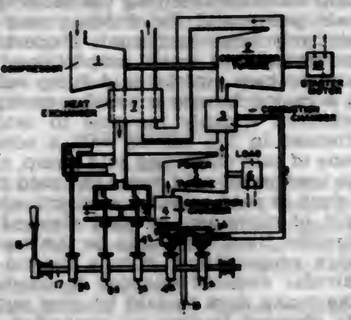
1. A blank for forming therefrom a flat sleeve member for use in an expandable link-strap consisting of a single strip of material having first and second ends and having three projecting portions located opposite to each other on opposite sides of said strip, two of the projections on each of said sides of the strip being located at the ends of the strip and the third projection on each of said sides of the strip being located substantially centrally of said projections at the ends of the strip, the projections at the first end of the strip being of a substantially smaller width than the projections at the second end of the strip, and said last mentioned projections and said centrally located projections being partially severed from said strip along lines which form a continuation of the sides of said strip.

2,651,910
TURBINE STARTING MECHANISM
Araham D. Zakarian, Del Mar, Calif., assignor to Solar Aircraft Company, San Diego, Calif., a corporation of California
Application March 13, 1951, Serial No. 215,253
11 Claims. (Cl. 60—39.14)

10. In combination with a single compressor and gas turbine assembly a single combustion chamber having an outlet port connected with the turbine and an air inlet port connected with the compressor, a power shaft connected through a gear transmission to a driven member, and manually operable means for transmitting starting torque to said power shaft through said gear transmission: a starting aid comprising a valve in the compressor outlet to close communication between the compressor and combustion chamber to stall fluid movement therebetween and effectively unload the compressor and turbine during the starting period.

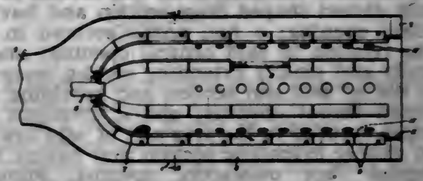


2,651,911
POWER PLANT HAVING A COMMON MANUAL CONTROL FOR THE FUEL VALVES OF THE COMPRESSOR AND POWER TURBINES
Ernest George Steriand, Rugby, England, assignor to The English Electric Company Limited, London, England, a British company
Application December 3, 1946, Serial No. 712,678
In Great Britain December 12, 1945
2 Claims. (Cl. 60—39.15)



1. A gas turbine power plant comprising in combination: a turbine connected to deliver useful power, a mechanically independent second turbine, a separate combustion chamber for each of the said turbines, a dynamic compressor in driving connection with the said second turbine and a connection between said compressor and both said combustion chambers for delivering compressed air in parallel to the same, a separate fuel control valve for each of the said combustion chambers, a control means common to the said separate fuel control valves, connecting means positively connecting the said control means to the said valves, the said control means through said connecting means in one extreme position fully opening both the said fuel control valves, in an intermediate position substantially closing the fuel control valve of the combustion chamber for the power delivering turbine while substantially keeping open the fuel control valve of the combustion chamber for the compressor driving turbine, and in the other extreme position fully closing both said fuel control valves, with gradual transitions from one extreme position through the said intermediate position to the other extreme position, a blow-off valve connected between the said dynamic compressor and the said combustion chambers, a throttle valve connected between the said dynamic compressor and the combustion chamber of the said power turbine, a thermostat in thermal connection with the entrance to the said compressor driving turbine, a fuel valve in series connection with the said fuel control valve to the combustion chamber of the said compressor driving turbine and in operative connection to the said thermostat in a sense of closing when the temperature in said entrance rises, the said connecting means connecting the said control means to the said valves including a cam-shaft, and cams arranged on the said cam-shaft positively operating the said blow-off valve, the said throttle valve and the said fuel control valves in a predetermined succession.

2,651,912
COMBUSTOR AND COOLING MEANS THEREFOR
Roy W. Abbott, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 31, 1950, Serial No. 193,169
3 Claims. (Cl. 60—39.65)

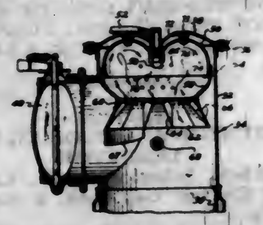


1. In combustion apparatus for burning fluid fuel, a liner of substantially circular cross-section closed at one end and open at the other end for the discharge of hot combustion gases, means for introducing fuel into said liner adjacent the closed end thereof, means for igniting the fuel, means for cooling the inner wall of said liner comprising a plurality of axially disposed slots in said liner extending from the fuel introducing means to nearly its discharge end, each of said slots having associated therewith deflecting means for deflecting air entering the slots circumferentially over the inner surface of the liner, said deflecting means comprising a plurality of T-shaped members mounted in inverse fashion in said slots and in end-to-end spaced relationship to compensate for relative axial expansion between the liner and said deflecting means, the distance between the upright portion of the deflecting means and the edge of the slots being 0.014 to 0.03 that of the liner diameter and the distance between the horizontally disposed portion of the deflecting means and inner surface of the liner being 0.003 to 0.01 that of the liner diameter.

2,651,913
GAS TURBINE COMBUSTION CHAMBER
Grant B. Hedgpeth, San Diego, Calif., assignor to Solar Aircraft Company, San Diego, Calif., a corporation of California
Application March 12, 1951, Serial No. 215,298
14 Claims. (Cl. 60—39.74)

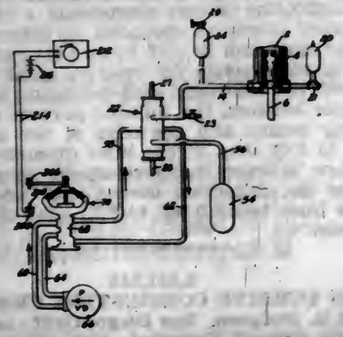
1. In a gas turbine combustion chamber structure comprising a cylinder of substantially uniform diameter having an outlet end adapted for direct connection with and to form a coaxial prolongation of the inlet end of a turbine scroll, a closure head secured on the remote end of said cylinder, and means in the cylinder wall adapted for connection to a source of compressed air: a

fuel and air mixing head mounted on said cylinder closure head and comprising an annular rear section having a central inwardly directed depression, a fuel injector in said central depression, a convergent annular wall extending generally axially from the periphery of said annular section, and a fluted divergent skirt the alternate flutes of which form passage means therein for deflecting air in a plurality of streams into said head and toward said fuel injector, said air thereby entraining fuel and thereafter flowing successively over said rear section and being discharged in a convergent stream from said convergent section.



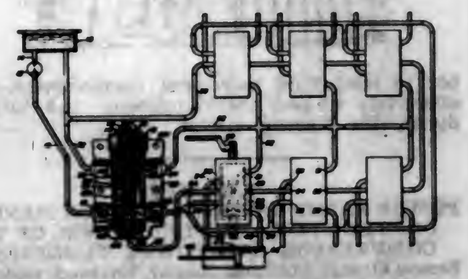
9. A fuel and air mixing head for a combustion chamber comprising an end section of generally dished shaped cross section and having a central opening; a fuel nozzle secured in fluid tight relation in said central opening; and inwardly and axially extending section secured to the rim of said end section and providing a restricted throat opening; and a divergent skirt portion secured to the free end of said inwardly and axially extending section and having in its external face outwardly opening, annularly spaced passages terminating at said throat opening and adapted to supply air interiorly of said head through said throat opening.

2,651,914
PUMPI'G HEAD AND OPERATING MECHANISM FOR WELLS
Joseph F. Joy, Pittsburgh, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application February 28, 1950, Serial No. 146,882
10 Claims. (Cl. 60—51)



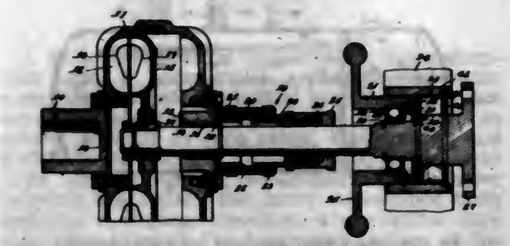
1. In a balanced system of deep-well pumping, a pump head cylinder having a working stroke and a return stroke, a hydraulic fluid pump having discharge and intake connections, an accumulator, and means including a valve to connect the discharge connection with the pump head cylinder during the working stroke and with the accumulator during the return stroke and to connect the intake connection with the accumulator during the working stroke and with the pump head cylinder during the return stroke, and including also a cutoff valve adapted, upon the occurrence of a condition relieving said cylinder of its working stroke load, to interrupt fluid flow to the pump head cylinder and to connect the pump discharge with the pump intake.

2,651,915
PUMP AND MOTOR HYDRAULIC SYSTEM, INCLUDING REVERSING AND AUTOMATIC BY-PASS VALVE UNITS
Leo M. Chattler, Washington, D. C.
Application August 22, 1949, Serial No. 111,753
2 Claims. (Cl. 60—53)
(Granted under Title 35, U. S. Code (1952), sec. 266)



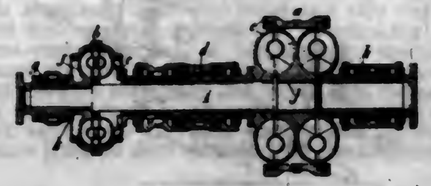
1. In a hydraulic system containing hydraulic fluid, the combination of a reservoir for said fluid, a delivery pump in communication with said reservoir on its suction side, a back pressure responsive dump valve for receiving the delivery of fluid from said pump and for dividing said delivery into relatively large and small proportions and for conducting said small proportioned flow to main and by-pass outlets, said dump valve comprising a casing having a tubular cavity, a valvular element slidably movable in said cavity, ducts formed in the casing wall, a conduit between one of said ducts and said pump, a conduit between another of said ducts and said reservoir, a first duct in said valvular element adapted at one limit of movement of said element to pass fluid directly from the pump to the reservoir in said large proportioned flow, a second duct in said valvular element adapted to conduct fluid from the pump duct to said by-pass outlet, said valvular element having an expanded pressure terminal susceptible to back pressure for moving said valvular element to close said first duct, a valve unit including a stationary tubular section and a valve section movable inside said stationary tubular section, main and by-pass ducts in opposed sides of the casing wall, main and by-pass ducts in said movable valve section, conduits connecting the dump valve main and by-pass outlets to the inlets of the main and by-pass ducts of said stationary valve section, outlet conduits for the main and by-pass conduits of said stationary valve section, manual means for moving said movable valve section to connect said stationary and movable main ducts and said stationary and movable by-pass ducts and to disconnect said stationary and movable by-pass ducts, whereby back pressure is made effective on the expanded pressure terminal of the valve element of said dump valve to cut off the large proportioned flow therethrough, a valve in said movable by-pass duct, a fluid pressure sensitive device connected to said movable by-pass valve for actuation thereof, a fluid pressure mechanism external to said valve unit, and a conduit connecting said fluid pressure mechanism and said pressure sensitive device, said pressure mechanism being operative to actuate said pressure sensitive device to open said movable by-pass duct whereby large proportioned flow through the dump valve may take place.

2,651,916
ROTARY HYDRAULIC COUPLING AND MECHANICAL BRAKE MEANS
Percy H. Batten, Racine, Wis., assignor to Twin Disc Clutch Company, Racine, Wis., a corporation of Wisconsin
Application June 12, 1948, Serial No. 32,647
2 Claims. (Cl. 60—54)



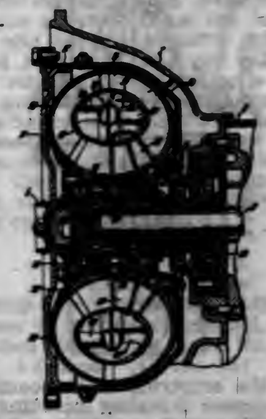
1. In a hydraulic coupling, the combination of an impeller, a runner coaxial with and axially movable relative to the impeller to vary the space therebetween, a shaft connected to the runner, a stationary frame having a threaded opening through which the output end of the shaft extends in spaced, coaxial relation, a sleeve threaded in the opening, and a thrust bearing interposed between and axially fixed relative to the sleeve and shaft whereby movements of the sleeve into and out of the frame opening effect axial movements of the shaft and variations in the spacing between the impeller and runner.

2,651,917
ROTARY HYDRAULIC COUPLING FOR FORWARD AND REVERSE DRIVE
Henry George Yates, Riding Mill, England, assignor to The Parsons and Marine Engineering Turbine Research and Development Association, Wallsend, England
Application June 13, 1949, Serial No. 99,053
In Great Britain July 19, 1948
2 Claims. (Cl. 60—54)



1. A power plant transmission gearing comprising an ahead driving hydraulic coupling and a reverse driving hydraulic coupling, both couplings having driving and driven elements, a hollow cylinder connecting the driving elements of said couplings, a quill shaft within said cylinder connecting the driven elements of said couplings and passing through both said couplings, a power output shaft connected to the end of said quill shaft remote from the ahead coupling, and a hollow power input shaft surrounding the other end of the quill shaft and connected to the ahead coupling driving element.

2,651,918
ROTARY HYDRAULIC TORQUE CONVERTER WITH DYNAMIC BRAKING
Oliver K. Kelley, Birmingham, and William S. Wolfram, Walled Lake, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 20, 1949, Serial No. 107,764
14 Claims. (Cl. 60—54)

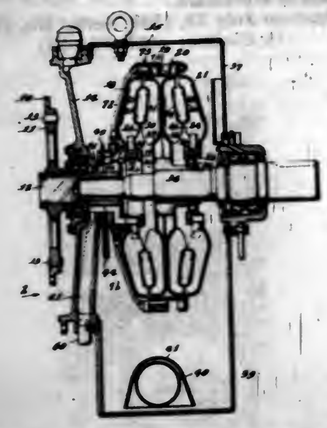


1. A kinetic energy type fluid torque-transmitting system including; an impeller member connected to a rotary source of energy, a turbine member connected to the mechanism to be driven, said impeller and turbine each including spaced shells forming a fluid circuit, a set of primary vanes on said impeller and a set of primary vanes on said turbine for transmitting energy from said impeller to said turbine, an additional shell carried by said impeller and an additional shell carried by said turbine, said additional shells forming with the adjacent turbine and impeller shells a second fluid circuit, a set of secondary vanes carried by said impeller and a set of secondary vanes carried by said turbine, all of said secondary vanes having concave and convex surfaces positioned in said second fluid circuit, the convex surfaces of the secondary vanes carried by said impeller facing the convex surfaces of the secondary vanes carried by said turbine, the convex surfaces of the secondary vanes carried by said impeller lying on the forward side thereof in the normal direction of rotation of said impeller such that minimum torque is transferred through said secondary vanes when said impeller over-runs said turbine and maximum torque is transmitted through said secondary vanes when said turbine over-runs said impeller.

2,651,919
ROTARY HYDRAULIC COUPLING
Evert L. Venstrom, Rockford, Ill., assignor to Twin Disc Clutch Company, Racine, Wis., a corporation of Wisconsin
Application August 12, 1949, Serial No. 109,973
7 Claims. (Cl. 60—54)

1. A hydraulic coupling having driving and driven members each including a plurality of radial passages cooperatively related to form a liquid working circuit, means for supplying liquid to the circuit including inlet ports around the central portion of the coupling at the inlet of the driving member radial passages, dump valve means positioned peripherally around the driving member, the dump valve means including a dumping port for discharging liquid from the

coupling and a valve oppositely subjected to the pressure of the supplied liquid and to the liquid pressure within the coupling, the valve being arranged to close the dumping port when subjected to the supplied pressure and to open when the supplied pressure is interrupted, and means for



facilitating the emptying of the coupling when the driven member is stalled including baffles extending radially into the working circuit adjacent to and ahead of the inlet ports in the direction of flow for biasing liquid flow from the driven member passages into the driving member passages and away from the inlet ports.

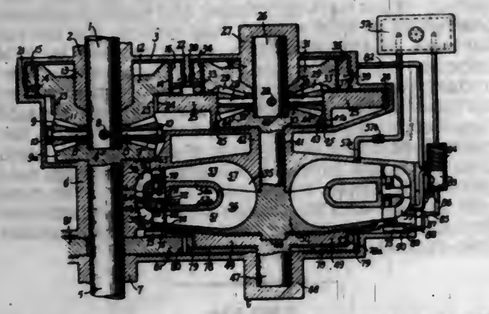
2,651,920

ROTARY TURBINE TYPE TORQUE CONVERTER FOR VARYING SPEED RATIOS

Oliver W. Roosevelt, New York, N. Y.

Original application January 20, 1945, Serial No. 573,740, now Patent No. 2,551,396, dated May 1, 1951. Divided and this application May 31, 1946, Serial No. 673,481

3 Claims. (Cl. 60—54)



1. A hydraulic torque converter provided with a torus chamber fluid circuit, having a rotary hydraulic impeller provided with a series of impeller blades in said circuit located radially on the impeller around its axis, a guide wheel having a series of fixed guide blades in said circuit coaxially adjacent to the impeller at the side of the radial impeller blades, a plurality of additional guide wheels having series of fixed blades, respectively, in said circuit forming channels in said circuit connected transversely of the outer periphery of the impeller, and a rotary runner cooperating with the impeller to receive liquid moved by the impeller blades, said runner having multiple series of rotatably featherable runner blades having between each adjoining series of them one of the said series of fixed guide blades, the rotatably featherable runner blades having a centrifugal counterweight outside of the periphery of said chamber for changing the angle of the same.

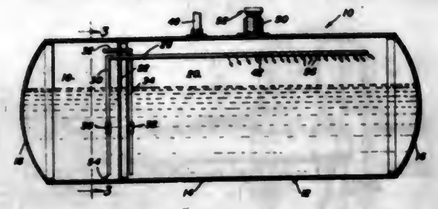
2,651,921

STORAGE AND VAPORIZING APPARATUS FOR LIQUEFIED PETROLEUM GAS MIXTURES

John W. Du Rant, Kingstree, S. C.

Application March 12, 1951, Serial No. 215,148

6 Claims. (Cl. 62—1)



1. In liquefied fuel storage and vaporizing apparatus, a tank having a partition therein dividing the interior thereof into first and second chambers, a conduit having its inner end disposed within and adjacent the bottom of the first chamber, said conduit extending through the partition and including a spray section disposed within and adjacent the top of the second chamber, such spray section having a plurality of spaced spray orifices therein, and a check valve in the conduit preventing flow into the first chamber through the conduit.

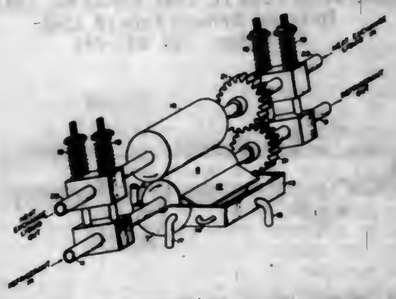
2,651,922

CRYSTALLIZATION PROCESS AND APPARATUS

Benton L. Graham, Cactus, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware

Application September 2, 1949, Serial No. 113,861

9 Claims. (Cl. 62—124)



1. The method of resolving a mixture of compounds into a higher-melting fraction and a lower-melting fraction which comprises freezing a portion of the mixture, removing the frozen portion from contact with the liquid, mechanically expressing the occluded mother liquor from the solid, returning the expressed liquid as reflux over the removed frozen portion to the mother liquor, re-melting the solid out of contact with its mother liquor to form a new mother liquor and repeating the step described.

2,651,923

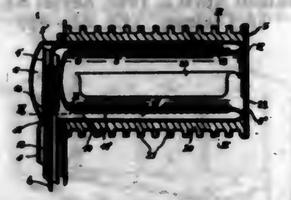
EVAPORATOR FOR REFRIGERATING APPARATUS

Hans Stierlin, Zurich, Switzerland

Application December 23, 1949, Serial No. 135,501

In Switzerland September 2, 1949

6 Claims. (Cl. 62—126)



1. In a refrigerating apparatus of the absorption type, a horizontally arranged evaporator comprising a pair of hollow cup-shaped bodies arranged co-axially one within the other in spaced relation to each other, the rims of said bodies being jointed together with a gas-tight joint thereby forming an evaporating chamber between the bodies, the inner cup-shaped body defining a cooling chamber, a gas-inflow pipe extending through the lower end portion of the side wall of the outer body opposite its rim in gas-tight relation to said side wall, said gas-inflow pipe extending into the space between the end walls of said bodies and having a discharge opening, means for conducting a refrigerant onto the outer surface of the inner body, and means for conducting gas and vapor from the evaporating chamber.

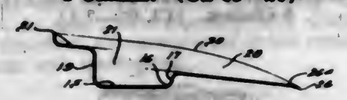
2,651,924

DUSTPAN

Richard B. Lawrence, Detroit, Mich.

Application January 7, 1949, Serial No. 69,743

3 Claims. (Cl. 65—30)



3. A dust pan made by stamping from a single piece of sheet metal, said dust pan including a dirt-receiving pocket having a flat bottom adapted to rest flatly on the floor and smooth walls surrounding said bottom from all four sides thereof, and merging smoothly and seamlessly therewith, an inclined ramp merging smoothly and seamlessly with the front and side walls of said dirt-receiving pocket and terminating in a floor-contacting lip, a horisontally extending flange provided along the back wall of said pocket and merging seamlessly therewith, said flange being adapted to be used as a handle for the dust pan, said ramp and said horisontally extending flange lying in said substantially parallel planes.

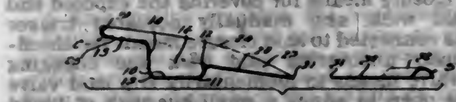
2,651,925

CRUMB TRAY

Richard B. Lawrence, Detroit, Mich.

Application January 7, 1949, Serial No. 69,744

3 Claims. (Cl. 65—30)



1. A crumb tray made by stamping from a single piece of sheet material, said tray including a crumb-receiving elongated pocket extending with its longer dimension transversely to the direction of sweeping into said pocket, said pocket having a flat bottom with well rounded ends and adapted to rest flat on a straight surface, walls surrounding said bottom and merging smoothly and seamlessly therewith, an inclined ramp merging smoothly and seamlessly with the front and side walls of said pocket and terminating in a table contacting lip, a horizontally extending flange provided along the back wall of said pocket and merging smoothly and seamlessly into said back wall and end walls of said pocket and adapted to be used as a handle for said tray, and inclined side flanges provided along the sides of said ramp and having front ends terminating at said lip and rear ends merging smoothly and seamlessly with the upper portion of the wall of said crumb-receiving pocket and also merging seamlessly with said horizontally extending flange.

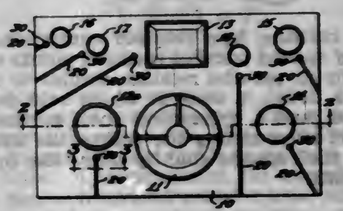
2,651,926

FOOD TRAY FOR THE BLIND

Vincent W. Ensicin, Cincinnati, Ohio

Application July 9, 1952, Serial No. 297,856

4 Claims. (Cl. 65—53)



1. A meal holding plaque for the blind, having a plurality of dish receiving holding means fixed in relation to said plaque in suitable spaced relation to each other, and tracks originating at peripheral edges of said plaque and extending across the upper surface of said plaque toward, but not touching, respective ones of said dish receiving holding means.

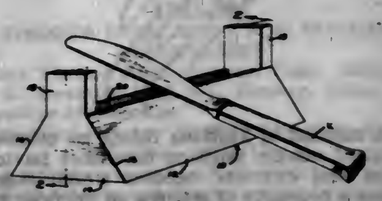
2,651,927

KNIFE CRADLE

Herbert G. Mullins, Park Ridge, Ill.

Application September 19, 1952, Serial No. 310,529

1 Claim. (Cl. 65—65)



A knife cradle comprising; an elongated body portion having a relatively wide base, said body portion being of upwardly tapered cross sectional configuration to define at its upper end a relatively elongated, narrow supporting surface across which the blade of a knife may be supportedly positioned; and upstanding guards formed upon opposite ends of the body portion and extending upwardly from the respective ends of said supporting surface to provide means for preventing said knife from slipping off said surface, said supporting surface being formed with a

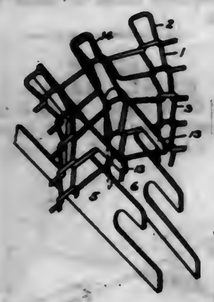
longitudinal groove extending from end to end thereof, the opposite ends of said groove being closed by the guards to form said groove into a receptacle disposed for receiving food scraped from the knife blade.

2,651,928
ACCIDENTALLY DROPPED KNITTED STITCH RETAINER
Willis Henderson, Los Angeles, Calif.
Application December 9, 1949, Serial No. 132,179
2 Claims. (Cl. 66—1.5)



1. A knitting loop retainer comprising a plurality of spaced parallel resilient points extended upwardly in parallel relation similar to the bristles of a brush, a base in which said points are mounted, and a cylindrical shell carried by the base and surrounding the points, the upper edge of said shell spaced slightly below the tips of the said points.

2,651,929
METHOD OF KNITTING
Paul L. St. Pierre, Pawtucket, R. I., assignor to Hemphill Company, Pawtucket, R. I., a corporation of Massachusetts
Application July 9, 1952, Serial No. 297,914
4 Claims. (Cl. 66—24)



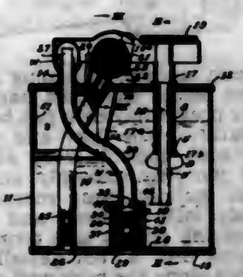
1. A method of knitting fabric on circular, independent needle, knitting machines having dial needles and cylinder needles which comprises knitting a plurality of courses on cylinder needles in some wales and dial needles in other wales, then knitting one or more courses on cylinder needles in all wales while holding on said dial needles their last knit loops, projecting said dial needles outwardly so as to put said loops into the path of upward projection of cylinder needles, holding said loops extended and taut by means of members projected into said fabric, raising cylinder needles to enter said extended loops, and withdrawing said dial needles thereby transferring said loops from said dial needles to said raised cylinder needles.

2,651,930
WARP KNITTING MACHINE TENSIONING DEVICE
Clarence J. Brown and Theodore F. Schwanda, Bangor, Pa., assignors to Blue Ridge Textile Company, Inc., Bangor, Pa., a corporation of Pennsylvania
Application April 2, 1949, Serial No. 85,106
16 Claims. (Cl. 66—86)



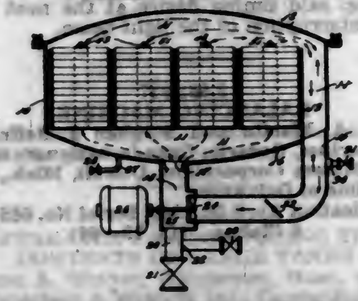
16. A method of preventing the formation of stop marks in the operation of a warp knitting machine having a resiliently mounted thread tensioning rod responsive to variations of the pull of the yarns flowing over it which comprises maintaining a predetermined range of tension on said rod during operation of the machine, increasing the tension applied to said rod as the machine is stopped and restoring said tension to said predetermined range when the machine is started up again.

2,651,931
CIGARETTE LIGHTER
Eugene P. Gallmard, Sr., Chicago, Ill., and Eugene P. Gallmard, Jr., Munster, Ind.; said Gallmard, Jr., assignor to said Gallmard, Sr.
Application July 2, 1950, Serial No. 171,896
5 Claims. (Cl. 67—7.1)



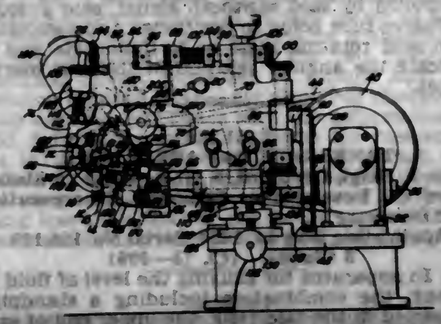
3. In a cigarette lighter, a body defining a reservoir to contain free liquid fuel; a wick having an end exposed for ignition and having its other end extending into said reservoir; a chamber closely surrounding said wick in said reservoir and having an opening therein adjacent said other end of said wick to permit direct contact between said wick and the fuel in said reservoir; valve means in said opening in control of contact between said wick and the fuel; resilient means urging said valve means into closed position; closure means for covering the exposed end of said wick, and manually actuated trigger means connected to said closure means for simultaneously uncovering said wick and engaging said valve means to momentarily trip said valve means open to admit a small quantity of liquid fuel to the wick but inoperable to hold said valve means open.

2,651,932
MACHINE FOR PROCESSING THERMOPLASTIC HOSIERY
Harry S. Drum and William C. Dodson, Abington, Pa., assignors to Smith, Drum & Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 16, 1952, Serial No. 282,606
4 Claims. (Cl. 68—20)



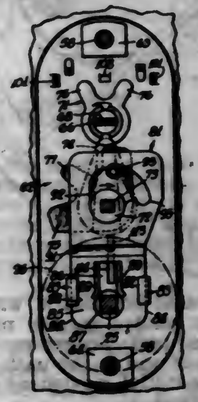
1. A machine for treating synthetic stockings which have been preset on boards, removed from the boards and arranged flat to form a stack of superposed stockings, comprising a casing and removable closure forming a closed chamber, a partition vertically disposed in said chamber forming a by-pass duct opening into the upper portion of said chamber, an apertured false bottom in said chamber mounted in spaced relation to the casing bottom, a plurality of trays arranged in superposed relation and supported by said false bottom, each tray having a pervious bottom supporting a stack of preset stockings, a fitting forming an outlet from the bottom of said chamber, a pipe connecting said fitting with said duct to form with said chamber a path for a treating medium, and means for successively circulating dye liquor, liquid finishing compound and air in said path, whereby said stockings are dyed, finished, extracted and dried ready for inspection and packaging.

2,651,933
SKIVING MACHINE
Milton H. Rocke, Malden, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application September 8, 1949, Serial No. 114,635
12 Claims. (Cl. 69—8.5)



1. In a skiving machine, the combination with a skiving knife of a feed roll having at one end a narrow rim and a portion contiguous thereto which are angularly disposed to each other to form a ridge over which the margin of the work is abruptly bent, an edge gage for positioning the edge of the work flush with the exposed end of said rim, and a presser foot constructed and arranged to hold the work at and at each side of said ridge against said roll thereby to form an abrupt bend in the work adjacent to its edge at the point of operation of said knife.

2,651,934
DOOR LOCK
Abraham E. Chesler, Woodmere, N. Y.
Application April 29, 1950, Serial No. 157,065
9 Claims. (Cl. 70—146)

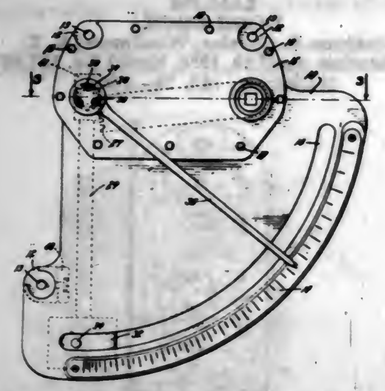


7. A door lock comprising a latch having a slidably mounted spring biased bolt, a door knob shaft operating said latch bolt, a cylinder lock, locking means for said shaft to prevent rotation of the latter, a transmission for operating said locking means from said cylinder lock, said transmission including a pair of meshing gear segments each having a fixed axis, one of said gear segments being directly driven from said cylinder lock and the other of said gear segments driving said locking means, said locking means comprising a reciprocable plate movable to locked and unlocked positions with respect to said shaft, said plate having a slot therein adapted to receive said shaft in locked position to restrain the latter against rotation, said slot having an enlarged portion adapted to receive said shaft in unlocked position to permit free rotation of the latter and a stop bar carried by said plate and coacting with said spring biased bolt in locked position of said plate to prevent sliding of said spring biased bolt.

2,651,935
TORQUE INDICATOR FOR TORQUE WRENCHES
Edward Thorne Able, Denver, Colo., assignor to B. K. Sweeney Mfg. Co., Denver, Colo., a corporation of Colorado
Application October 12, 1951, Serial No. 251,001
4 Claims. (Cl. 73—1)

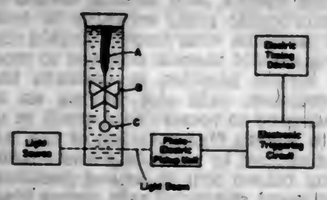
1. A torque wrench-testing device comprising: a frame; a torque-indicating scale supported by said frame; means for supporting said frame in a vertical position; an input shaft rotatably mounted in said frame and provided with means for receiving a wrench; a pendulum shaft rotatably mounted in said frame in parallel, spaced relation to said input shaft; a toothed pinion fixed on said pendulum shaft; a lever arm fixed on said input shaft; an arcuate series of teeth in the extremity of said lever arm, said teeth being arranged concentrically of the axis of said input shaft and continuously meshing with the teeth of said pinion; a weighted pendulum affixed to, and suspended from, said pendulum

shaft; a pointer mounted to rotate the axis of said pendulum shaft and extending to said indicating scale to indicate positions on the latter, said pendulum being positioned rearwardly of said frame, and said pointer being positioned forwardly thereof, there being an elongated, arcuate



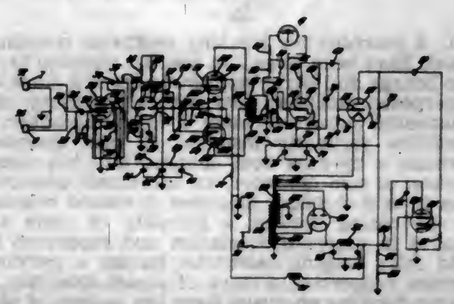
slot in said frame concentric with the axis of said pendulum; and a pusher pin mounted in said pendulum and projecting through said slot at one side of and in the path of said pointer to transmit the initial movement of said pendulum to said pointer.

2,651,936
WETTING TEST DEVICE
Donald E. Marmon, Phillipsburg, N. J., and Franklin C. Snowden, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application September 8, 1950, Serial No. 183,740
1 Claim. (Cl. 73—53)



An apparatus for measuring the wetting time of a textile material comprising a light-penetrable elongated vertical liquid container for receiving said textile material, a light source outside the container and adapted to pass a light beam therethrough near the bottom thereof, a first means and a second means for interrupting said light beam which means are connected together in spaced relationship and connected to the textile material, the said first means being of sufficient weight when submerged in the liquid of the container to overcome the buoyancy of the textile material and the said second means, the connecting means between the said first means and the textile material being of sufficient length so that when the textile material is completely submerged the second means is not drawn down into the light beam, the second means being of sufficient weight when submerged to overcome the buoyancy of the textile material when completely wet and insufficient until the textile material is completely wet to cause it to sink in said liquid, the first means interrupts the light beam when the textile material first contacts the liquid in said container and the said second means interrupts the light beam when the textile material begins to sink to the lower part of said liquid, a photoelectric pickup unit adapted to receive the light beam at the other end of said container, an electric timing device connected with an electric means for starting said timing device, said electric means being connected with said pickup unit so as to start said timing device at the first interruption of the light beam and stop said timing device at the next subsequent interruption of the light beam.

2,651,937
BALANCING MACHINE
Flyodd A. Martin and Stephen J. Jeffery, St. Catharines, Ontario, Canada, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 26, 1946, Serial No. 665,287
6 Claims. (Cl. 73—66)

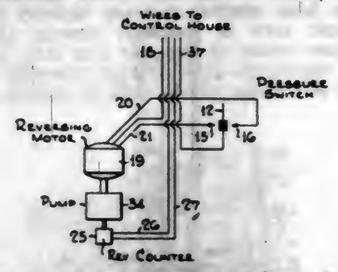


1. A device for determining the magnitude and angular position of inertia forces in rotating masses including, a piezo electric crystal for transforming said inertia forces into electrical signals, an electrical amplifier for amplifying said signal connected thereto, means for indicating the magnitude of the amplified signal, an electrical network for producing a sawtooth wave having a steep wave front said electrical network including, a condenser across which said sawtooth wave is generated, a direct current source capable of charging said condenser, a grid controlled gaseous discharge tube responsive to said amplified signal for rapidly discharging said condenser, said indicating means and said network both connected to said amplifier, a gaseous discharge tube controlled by said sawtooth signal, said gaseous discharge tube being so positioned and associated with said rotating mass as to illuminate and so indicate the angular position of the said inertia forces.

2,651,938
TANK GAUGING APPARATUS
John J. Heigl, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application May 31, 1950, Serial No. 165,169
5 Claims. (Cl. 73—290)

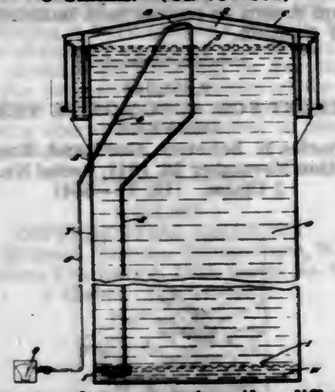
1. In apparatus for gauging the level of fluid in a tank, the combination including a standpipe supported in the said tank, the upper end of said standpipe being open and extending above the level of fluid in the tank and the lower end of said standpipe being closed, a reversible positive displacement pump, a fluid passageway extending between fluid in the tank and the inner portion of the standpipe at a point adjacent the lower end of the standpipe through the said pump whereby fluid may be pumped therebetween,

means to actuate the pump in a direction determined by pressure differences between fluid in the



standpipe and fluid in the tank, and means to indicate the rotation of the pump.

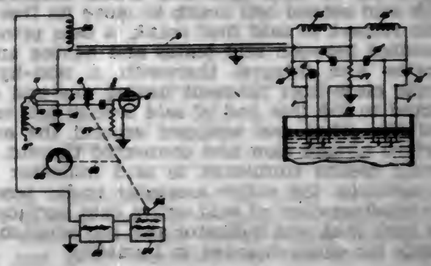
2,651,939
APPARATUS FOR MEASURING THE CONTENTS OF LARGE TANKS
Eastman A. Weaver, Winchester, Mass., assignor to Comstock & Wescott, Inc., Cambridge, Mass., a corporation of Massachusetts
Application December 27, 1948, Serial No. 67,517
5 Claims. (Cl. 73—301)



1. A device for measuring the difference in pressure between two fluids, comprising a fluid-tight enclosure including spaced plates of a material having substantially the same coefficient of expansion as the container holding the fluids, said enclosure having means for admitting one of said fluids and adapted to be surrounded by the other, a deformable member including an impedance element attached to said plates so as to undergo deformation in accordance with the difference in pressure between the two fluids, an electrical circuit connected to include said impedance element so that its electrical characteristics vary in accordance with the deformation of said deformable member, means for measuring the variations in impedance in said circuit, and a float for supporting said fluid-tight enclosure, the mean density of said float and enclosure being less than that of the denser of said fluids and greater than that of an underlying liquid.

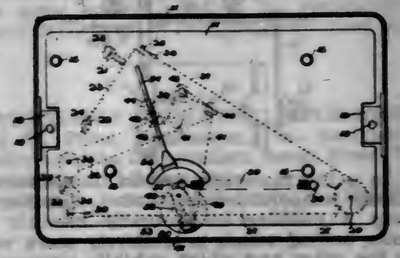
2,651,940
APPARATUS FOR MEASURING LIQUID LEVEL
Kenneth H. Kline, Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application August 10, 1950, Serial No. 178,696
9 Claims. (Cl. 73—304)

1. In apparatus for measuring the level of liquid in a container, in combination, means forming a pair of high frequency resonant circuits having different resonant frequencies, said circuits both being partially immersed in said liquid, whereby the resonant frequency of each of said circuits is dependent on the liquid level, means for generating a high frequency electrical



signal, means for applying said signal to both of said circuits, and frequency discriminator means connected to said circuits for deriving an error signal corresponding to the difference between the frequency of said high frequency signal and the mean resonant frequency of said circuits.

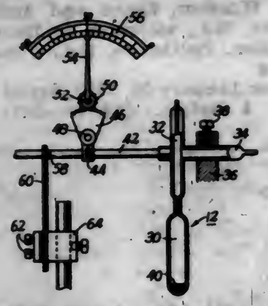
2,651,941
HUMIDITY RESPONSIVE DEVICE
Walter E. Windsor, Essex, and Andrew J. Keil, Baltimore, Md., assignors to Bendix Aviation Corporation, Baltimore, Md., a corporation of Delaware
Application January 20, 1950, Serial No. 139,678
4 Claims. (Cl. 73—337)



1. In a humidity indicator, in combination: A pair of substantially flat rectangular juxtaposed supporting plates rigidly held together in spaced relationship, a relatively stiff flexible member extending upwardly between said plates whereby its upper extremity is positioned near one of the upper corners of said plates, means for securing the lower extremity of said flexible member to one of said plates, a first screw adjustably mounted on one of said plates cooperating with said flexible member to change the position of the upper extremity thereof, an elongated hygroscopic element extending between said plates, said hygroscopic element changing in length in response to changes in humidity and having a non-linear characteristic whereby equal changes in humidity result in unequal changes in length, a pulley mounted for rotation between said plates near one of the lower corners thereof and diametrically disposed to said upper extremity of said flexible member, a first bell crank pivotally mounted between said plates and having its lower leg extending downwardly towards the other lower corner of said plates and its upper leg extending towards the opposite upper corner of said plates, a second screw carried by the said lower leg and adjustable to vary the effective lever arm of said lower leg, said hygro-

scopic element being looped around said pulley and having one end secured to the upper extremity of said flexible member and the other end secured to said second screw, a second bell crank pivotally mounted on the upper leg of said first bell crank, a third screw carried by said upper leg of said first bell crank cooperating with said second bell crank to move its free end with respect to said first crank, a cam pivotally mounted between said plates and having an indicator arm integral therewith, a non-hygroscopic glass-fiber filament having one end connected to the free end of said second bell crank and the other end wrapped around the active surface of said cam and connected thereto, and spring means connected to said indicator arm to maintain the entire assembly under tension, the configuration of said active cam surface being such that said indicator arm has equal movements for equal changes in humidity.

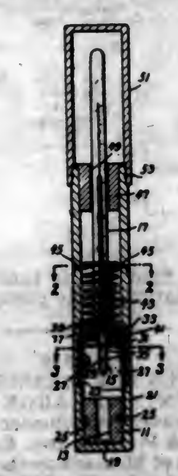
2,651,942
LINEAR RESPONSE VAPOR PRESSURE THERMOMETER
Clarke C. Minter, Washington, D. C., assignor to Foxboro Company, Foxboro, Mass., a corporation of Massachusetts
Application September 2, 1949, Serial No. 113,848
7 Claims. (Cl. 73—369)



1. In a thermometric system, in combination, a closed temperature-responsive chamber containing a mixture of mutually miscible compounds, one of which is relatively more volatile than the other and which exhibits a vapor pressure which varies non-linearly with temperature within the range of temperatures being measured, said chamber containing both liquid and vapor and the vapor space in said chamber being large in relation to the space occupied by said liquid, the relative and absolute quantities of said compounds in said chamber being such that the vapor pressure within said chamber is a substantially linear function of the temperature to which said chamber is responsive and means responsive to the pressure in said chamber for measuring the value of the temperature to which said chamber is made responsive.

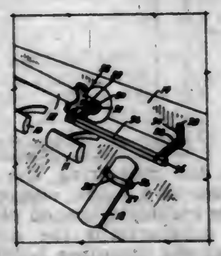
2,651,943
RESETTING DEVICE FOR CLINICAL THERMOMETERS
William Edward McCormick, New York, N. Y.
Application June 26, 1951, Serial No. 233,671
12 Claims. (Cl. 73—373)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A containing and resetting device for a clinical thermometer comprising a casing, an anvil mounted in said casing, a hammer carried slidably in said casing, a spring having an inwardly protuberant portion carried by said casing to retain said hammer spaced from said anvil, said hammer being engageable by a thermometer



to be thrust thereby past said spring to strike said anvil, and means to restore said hammer to said retained position.

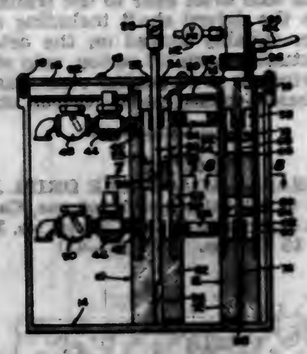
2,651,944
FOOTREST FOR AUTOMOTIVE VEHICLE DRIVERS
Charles H. Schetzer, Goodland, Kans.
Application November 28, 1949, Serial No. 129,869
1 Claim. (Cl. 74—564)



A foot rest for use with the accelerator pedal of an automotive vehicle of the type having a fire wall and a steering post, comprising: a screw-actuated clamp adapted to be clamped about said steering post; an angle clip; means for securing said clip to said fire wall; a threaded stud projecting from said screw-actuated clamp; a first arm pivotally mounted at its one extremity on said stud; a second arm pivotally mounted at its one extremity on said angle clip; a foot rest rod substantially longer than said arms secured to and extending between the other extremities of said arms; and screw fastening means for securing said arms at any desired angle relative to the stud and the angle clip so as to support the ball of a user's foot while his heel rests upon said accelerator pedal.

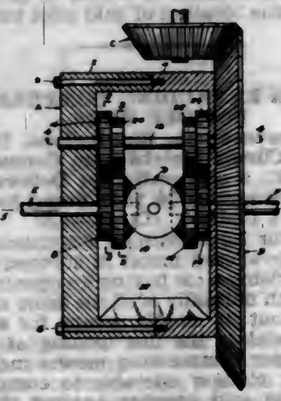
2,651,945
HYDRAULIC TIME COMPENSATOR
Edgar W. Patterson, Downey, Calif.
Application November 25, 1949, Serial No. 129,233
10 Claims. (Cl. 74—589)

3. A hydraulic time compensator for reciprocating machines including a time compensator unit having a cylinder and a piston which is longitudinally freely movable a fixed distance about a central position within said cylinder, actuating means disposed in said time compensator unit and adapted to move respectively in two different longitudinal directions responsive to motion of said piston when the latter is



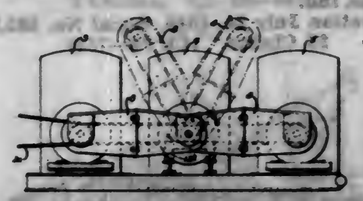
farthest from said central position and means for introducing a fixed quantity of fluid into the respective chambers on either side of said piston which is directly proportional to the time periods of the respective half cycles of the reciprocal motion of said machine, said actuating means being operatively connected to means for balancing said machine.

2,651,946
DIFFERENTIAL GEARING
George Richard Stevens, Albuquerque, N. Mex.
Application February 4, 1949, Serial No. 74,583
1 Claim. (Cl. 74—711)



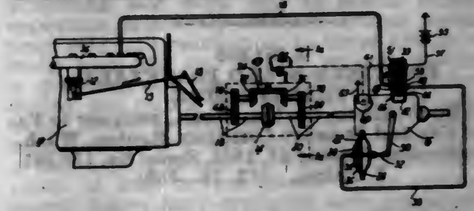
In a differential mechanism having a differential casing secured to ring gear, differential gearing therein joined to axle shafts, and means constituting a differential lock connected to said gearing, said means comprising pairs of gears mounted upon said axle shafts, respectively, within said casing, a countershaft journaled to and lying within said casing, second pairs of gears meshed, respectively with said gears on said axle shafts, the gears in each of said pairs of gears being of different size, and overrunning clutch means connecting said second pairs of gears to said countershaft.

2,651,947
MULTIPLE ENGINE COUPLING
John Hart Wilson, Wichita Falls, Tex.
Application May 24, 1949, Serial No. 94,953
5 Claims. (Cl. 74—723)



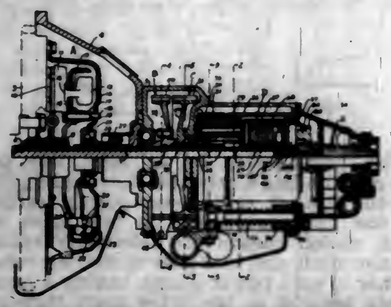
1. The combination of at least two power plants each having a drive shaft extending therefrom, the first of said power plants having at least one gear journaled on the drive shaft thereof, clutch means for selectively engaging said drive shaft and said gear in driving relation, the other of said power plants having a gear attachably secured to the drive shaft thereof for rotation therewith, an endless flexible transmission device surrounding said gears and in driving relation therewith, an elongated member interposed between said shafts and journaled with respect to the respective axes of said shafts so as to maintain said gears a spaced distance apart so when said gear of said last mentioned power plant is detached from its drive shaft, said last mentioned gear, said endless flexible transmission device, and said elongated member interposed between said drive shafts may be pivotally moved around the axis of said drive shaft of said first mentioned power plant and be maintained in the same spaced relation for reattachment with said drive shaft of said last mentioned power plant.

2,651,948
TRANSMISSION OPERATING MECHANISM
Harold W. Price, Bradenton, Fla., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application June 26, 1948, Serial No. 35,269
3 Claims. (Cl. 74—731)



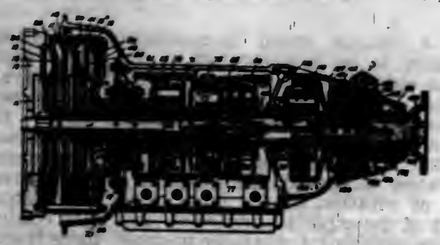
1. A change speed transmission mechanism adapted to be incorporated in the power plant of an automotive vehicle including two separate change speed transmission units, and power means, comprising a fluid pressure motor, for operating one of said units, said power means further including control means for the motor operative in accordance with the relative direction of rotation of the input shaft and output shaft of the other transmission unit, said control means including a rotatable member, force transmitting means interconnecting said input shaft with the rotatable member, other force transmitting means interconnecting said output shaft with the rotatable member, and switch means operatively connected with the latter member, the operation of said switch means being dependent on the direction of bodily movement of the rotatable member.

2,651,949
AUTOMATIC TRANSMISSION
William B. Barnes, Muncie, Ind., assignor, by mesne assignments, of three-fourths to himself and one-fourth to Freda Arthur Barnes, Muncie, Ind.
Application July 24, 1946, Serial No. 685,892
22 Claims. (Cl. 74—752)



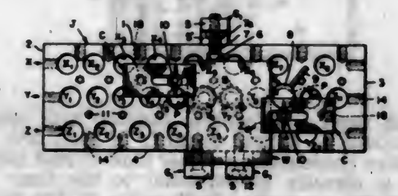
1. In a transmission, in combination, a rotatable driving structure and a rotatable driven structure, a gearing unit for effecting a drive from said driving structure to said driven structure, including a pinion cage, a ring gear drivingly associated with said driven structure, a first set of pinion gears carried by said pinion cage and meshing with said ring gear, a second set of pinion gears carried by said pinion cage and meshing with said first set of pinion gears, a first sun gear meshing with said first set of pinion gears, a second sun gear meshing with said second set of pinion gears, a first clutch for effecting a drive from said driving structure to said first sun gear, a brake for holding said second sun gear against rotation, and a second clutch for connecting said driving structure with said pinion cage, means for effecting the engagement of said first clutch; fluid pressure operated means for operating said brakes and said second clutch, and for effecting a release of said first clutch, and means driven from either said driving structure or from said driven structure for supplying fluid pressure to said fluid pressure operated means.

2,651,950
FOURTEEN-SPEED PLANETARY TRANSMISSION
Carl Einar Schou, Seattle, Wash., assignor to Pacific Car and Foundry Company, Renton, Wash.
Application October 24, 1949, Serial No. 123,267
3 Claims. (Cl. 74—759)



1. A transmission comprising, a casing, an input member connected to a multiple clutch housing, a plurality of drive shafts connectable to said clutch housing, a plurality of series connected brake controlled planetary gear sets and an auxiliary speed reducing unit, two of said drive shafts being connected to two elements of the first of said brake-controlled gear sets, a third of said drive shafts being connected to an element of the last of said gear sets, said auxiliary speed reducing unit including a sun gear connected to an output shaft from said last of said gear sets, planet pinions in mesh with the sun gear and rotatably mounted on a carrier connected to a driven shaft, an orbit gear in mesh with said planet pinions and means for selectively locking said orbit gear to the transmission casing or to the driven shaft including a shiftable member slidably moved on the orbit gear by a fluid actuated annular piston, said shiftable member having an overrunning connection with the transmission casing or the driven shaft.

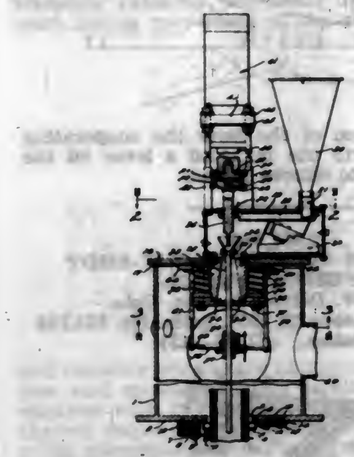
2,651,951
UNIVERSALLY ADAPTABLE DRILL JIG
Herman G. Altenburger, Montrose, Calif.
Application September 8, 1952, Serial No. 308,306
15 Claims. (Cl. 77—62)



1. A drilling jig comprising: a jig plate having a plurality of parallel rows of holes therein arranged with the holes of individual rows differently spaced apart than the holes of other rows, a pilot bushing insertible in a selected hole of one row, means for affixing a piece of work to said plate preparatory to a drilling operation, and means including gauges of fixed dimensions attachable to the marginal portions of said plate and plugs insertible in selected holes of said plate engaging and between which said piece of work may be located on the plate in accordance with predetermined location of a hole to be drilled in the work at the location of said pilot bushing.

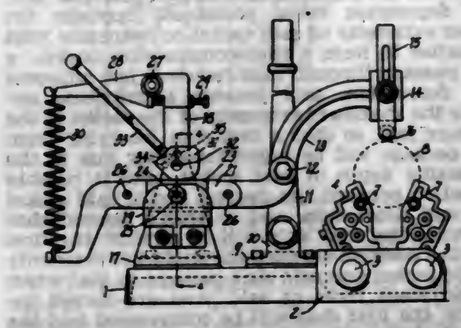
2,651,952
DIE FOR EXTRUDING COMPRESSED POWDER RODS
Edgar K. Leavenworth, Birmingham, Mich., assignor to Climax Molybdenum Company, New York, N. Y., a corporation of Delaware
Application November 24, 1947, Serial No. 787,797
12 Claims. (Cl. 75—0.5)

1. Apparatus for forming a continuous rod of compressed powdered metal in successive increments, comprising a die having an opening therethrough which normally is of the same cross section throughout its length, means for supplying powdered metal to the die opening at one end thereof, powder compressing means including a reciprocating plunger operable to compress the powder within said opening against the previously formed portion of the rod and thus compact to final form successive increments of said rod in a portion of the die opening adjacent said one end, the remaining and major portion of the length of said die opening receiving a length of the fully formed rod and being radially expansible, and mechanism normally clamping the expansible portion of the die with a radial force insufficient to stress the compressed rod beyond its elastic limit, the radial clamping force normally exerted by said mechanism being sufficient to develop a frictional resistance to movement of the compressed rod through the die opening which will prevent such movement in response to the force exerted by the plunger until after the radial clamping force is reduced, said mechanism including pressure responsive means operated by the powder compressing means for reducing the radial clamping force exerted by



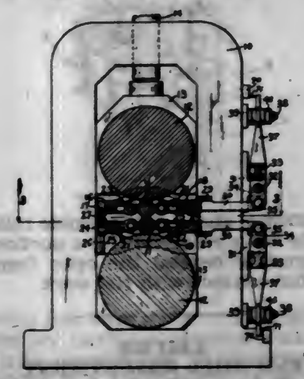
said mechanism and thus permitting expansion of said expansible portion of the die and movement of the compressed rod through the die opening after the plunger has completed only a portion of its stroke in the powder compressing direction.

2,651,953
PISTON KNURLING MACHINE
Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich.
Application January 27, 1949, Serial No. 73,065
10 Claims. (Cl. 80—5.1)



1. A machine for knurling pistons comprising a base, a work support transversely adjustable on said base for supporting a piston in a fixed position with its longitudinal axis extending transversely of the base, an operating lever having a handle and being pivotally mounted on said base behind said support and swingable in a vertical longitudinal plane, a pressure arm pivotally secured to said lever at a point spaced from the pivotal connection between said lever and base, a knurling tool carried by said pressure arm and located over said work support to engage a piston thereon, means at one end of said pressure arm for applying a pressure thereto for pressing said knurling wheel against a piston, and stop means on said base to limit the oscillation of said lever and said arm.

2,651,954
METHOD OF AND MEANS FOR ROLLING STRIP MATERIAL
Frank P. Dahlstrom, Woodbridge, Conn.
Application September 27, 1949, Serial No. 118,145
3 Claims. (Cl. 80—38)

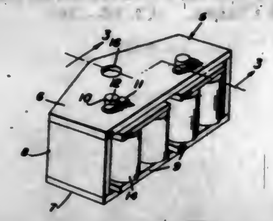


1. In apparatus for rolling strip material, a four-high stand of rolls comprising a pair of small diameter laterally movable work rolls providing the reducing pass and a large diameter back-up roll for each work roll, driving means connected to the back-up rolls for imparting frictionally through the latter the strip-propelling rotation of said work rolls, thereby normally creating a mill reaction tending to displace said work rolls in a direction opposite to the material's movement through said reducing pass, a supply reel and a take-up reel for the material undergoing reduction, driving means for each of said reels for respectively producing on said strip a back tension and a forward tension each of regulable amplitude, whereby to obtain, by preponderance of said forward tension a net forward tension tending normally to displace said work rolls in the same direction as said material's movement through said reducing pass, adjustable means for initially offsetting said work rolls, forwardly or rearwardly in relation to the plane containing the axes of the back-up rolls, thereby subjecting said work rolls to lateral forces in opposition selectively to those arising normally from said mill reaction or to those arising normally from said net forward tension, whichever is preponderant, means differentially actuated during the rolling operation by the two-directional lateral movements of said work rolls, and means connecting said last named means to each of said driving means, for decreasing the driving power of that driving means whose ascendant lateral forces have produced such displacement and for increasing the driving power of the other driving means, thereby to return said work rolls to their initially adjusted positions and to substantially balance the opposed lateral forces to which said work rolls are subjected.

2,651,955
STOCK GUIDE FOR ROLLING MILLS AND THE LIKE
William J. Fisher, Detroit, Mich.
Application May 20, 1952, Serial No. 288,982
2 Claims. (Cl. 80—51)

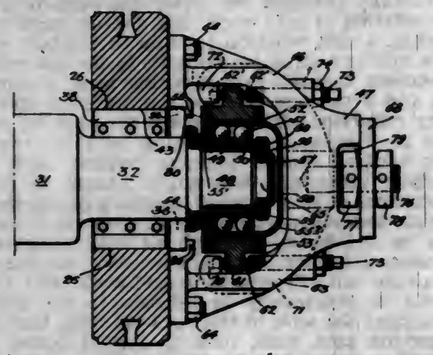
1. A stock guide of the class described comprising a roller mounting having an open front, means pivotally supporting the mounting for horizontal swinging movement adjacent an edge of work traveling along the open front of the mounting, a vertical pin in the mounting, a roller fix-

ture pivoted on the pin for horizontal swinging movement at the open front of the mounting, quick releasable locking means holding the pin



in the mounting, and a pair of guide rollers journaled in the fixture and having a portion of each roller protruding beyond the open front of the mounting for contact with the work.

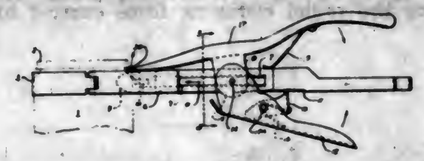
2,651,956
END ROLL ADJUSTMENT
Edward T. Petersen, Reading, Pa., assignor to Birdsboro Steel Foundry and Machine Company, Birdsboro, Pa., a corporation of Pennsylvania
Application April 10, 1948, Serial No. 20,287
5 Claims. (Cl. 80—56)



2. A rolling mill adjustment comprising a frame, rolls mounted thereon, a bracket mounted on the frame extending over one end of one of the rolls, slotted in a direction lengthwise of the roll and in plane parallel with the roll axis and having spaces above and below the end of the roll, a thrust bearing on the roll end, the spaces in the bracket being vertical and in line with the thrust bearing to permit vertical movement of the thrust bearing inside the bracket, flanges extending from the opposite lateral positions on the thrust bearing in line with the slot, a yoke in the slot of the bracket and guided thereon having yoke arms extending around the thrust bearing and releasably engaging opposite sides of the flanges to permit vertical adjustment of the flanges and thrust bearing with respect to the yoke, and adjustment means to axially position the yoke with respect to the bracket.

2,651,957
CLOSURE REMOVER WITH CONTAINER GRIPPING MEANS
Campbell C. Phillips, Dayton, Ohio
Application August 9, 1951, Serial No. 241,061
2 Claims. (Cl. 81—3.36)

1. In a lid remover, a handle, a member slidably mounted in the handle, cooperating members on the handle and the slidable member to grip a jar adjacent its lid and a lever pivoted to the slidable member and engaging the handle where-



by upon operation of the lever the cooperating members will grip the jar, and a lever on the slidable member to remove the lid.

2,651,958
PLIERS FOR APPLYING SPLIT-SHOT FISHING SINKERS
Walter W. Deline, Denver, Colo.
Application October 29, 1951, Serial No. 253,736
2 Claims. (Cl. 81—15)

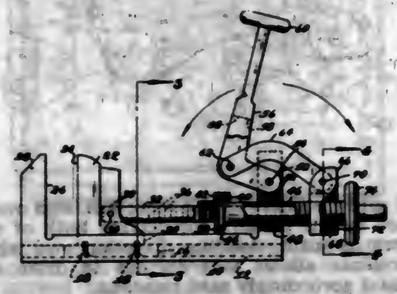


1. A split-shot applying tool comprising: a pressure jaw formed on the forward extremity of a first handle member; a reservoir jaw formed on the forward extremity of a second handle member; a hinge member hinging said two handle members together in crossed, plier-like relation so that the adjacent faces of said two jaws can be forced toward each other; an elongated, shot-receiving socket in the adjacent face of said pressure jaw, said socket increasing in depth as the extremity of said latter jaw is approached; a semi-spherical depression formed in the adjacent face of said reservoir jaw, said depression being positioned opposite the deeper extremity of said socket to cooperate with the latter to form a shot-compressing pocket; a shot passage through said reservoir jaw adjacent said depression, said passage terminating opposite the shallower extremity of the socket in the pressure jaw, so that a first shot emerging from said passage will be urged forwardly due to the increasing depth of said socket until it reaches a position between the deepest end of said socket and said depression, and so that a second shot following the first shot will lie against the first shot in a position between the shallower extremity of said socket and said shot passage so that when the adjacent faces of said jaws are forced together, the first shot will be compressed and the second shot will be forced back into said shot passage; and resilient means urging the shot from said passage.

2,651,959
SLIDING JAW VISE, INCLUDING A PRESET-TABLE, LEVER-ACTUATED, JAW LOCKING MEANS
Donald K. Harrington, McDonough, N. Y.
Application October 19, 1951, Serial No. 252,085
6 Claims. (Cl. 81—17)

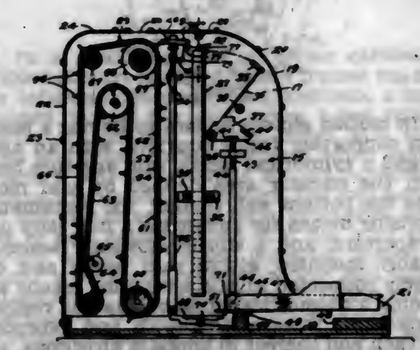
1. A vise comprising a bed plate; a fixed jaw thereon; a movable jaw and a carrier sleeve slidable in parallel paths upon the bed plate toward and away from the fixed jaw, said sleeve being rotatable upon the bed plate; a push rod fixedly connected to the movable jaw and connected to

the sleeve for adjustment longitudinally thereof and for rotation of the sleeve relative to the push rod in selected positions to which the push rod is adjusted longitudinally of the sleeve; a lever pivoted to the bed plate; and means connecting the lever and sleeve and operative to translate swinging movement of the lever into joint sliding movement of the sleeve, push rod,



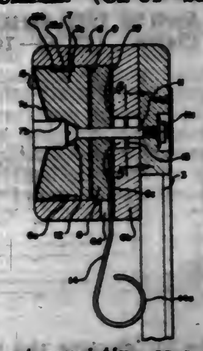
and movable jaw toward and away from the fixed jaw, said means including a follower threadedly engaged with the sleeve to shift longitudinally thereof responsive to rotation of the sleeve, and a link element connected to the follower and lever respectively and arranged to swingably adjust the lever to selected, pre-set rest positions responsive to shifting of the follower longitudinally of the sleeve.

2,651,960
EDUCATIONAL MUSICAL INSTRUMENT
Pierre P. Pattyn, Detroit, Mich.
Application April 7, 1952, Serial No. 280,913
3 Claims. (Cl. 84—102)



1. A musical instrument comprising a housing, musical tone elements in said housing, rockable percussion means in said housing engageable with said elements, manually operable keys carried by said housing engaging said percussion means, an endless web, means movably supporting said web in said housing, pins carried by said web, means engageable by said pins and engaging said keys whereby to rock said keys and thereby effect operation of said percussion means, said means comprising a block member, means rockably supporting said member, a lift rod engaging said member, a key pivotally secured to said rod, a stop member limiting the rocking of said member in one direction, a hammer, and a resilient bar secured to said hammer and said member, and means for adjusting said latter named means whereby to dispose said latter named means in either operative or inoperative position relative to said web.

2,651,961
VIOLIN REST
Rudolph H. Heimers, Coronado, Calif.
Application July 25, 1949, Serial No. 106,563
3 Claims. (Cl. 84—281)



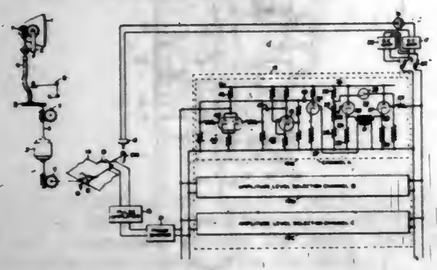
1. A violin rest consisting of a scroll-engaging socket member having a recessed socket portion provided with opposed side walls engageable with opposite sides of a violin scroll at its extremity, means for supporting the same, said scroll-engaging socket member pivotally adjustable on a horizontal axis substantially parallel to the longitudinal axis of a violin when engaging said socket member, a clutch intermediate said scroll-engaging socket member and said means, and an arm in connection with said clutch for pivotally shifting said scroll-engaging socket member.

2,651,962
WEDGE TYPE BOLT OR PIN
John V. Hammond, Spangler, Pa.
Application June 25, 1951, Serial No. 233,447
1 Claim. (Cl. 85—6)



A wedge type bolt for mines, comprising a cylindrical member having a V-shaped groove in each end of said member and a wedge in each groove, said wedges being of substantially the configuration of said grooves and when fully inserted extending beyond the ends of said member, the total length of said wedges being greater than the length of said member, said grooves being at right angles to each other and intersecting at the mid point of said cylindrical member, each said wedges being provided with a centrally positioned V-shaped groove at its apex whereby when fully inserted they may intersect, the sides of said wedges being arcuate and having a radius of curvature conforming to that of said cylindrical member, driving of said wedges in the grooves of said member effecting expansion of said member substantially throughout the length thereof.

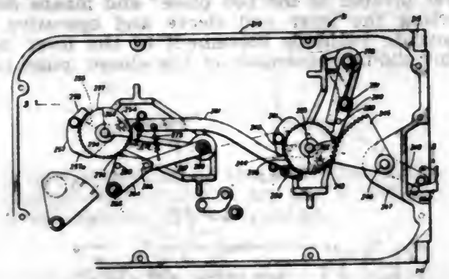
2,651,963
RADIATION BEAM PATTERN RECORDER
Alfred F. Bischoff, Ballston Spa, N. Y., assignor to General Electric Company, a corporation of New York
Application April 26, 1951, Serial No. 223,006
3 Claims. (Cl. 88—14)



1. In a device for plotting the beam intensity pattern of a light source, a combination comprising a rotatable helical conductor; an electrically conducting printing bar positioned adjacent said helical conductor; means for feeding a sheet of electro-sensitive material intermediate said helical conductor and said printing bar; means for rotating said light source and means for tilting said light source with respect to the axis of rotation thereof; said helical conductor being connected to said light source rotating means for rotation together with said radiation device; a light beam detection device for producing an electrical signal in response to the illumination thereof positioned to intercept the light beam produced by said light source; a pulse forming circuit comprising an amplitude level selection circuit including a plurality of parallel connected amplitude level selection channels for producing electrical pulses in response to different levels of applied signal, each of said amplitude level selection channels being responsive to a different level of applied signal, said pulse forming circuit connected to be actuated by said radiation detector device; and means including connections for applying the output of said pulse forming circuit between said helical conductor and said printing bar, whereby to produce marks on a sheet of electrosensitive material when said material is positioned intermediate said helical conductor and said printing bar, each of said marks being indicative of the presence and position of a certain level of intensity in said light beam.

2,651,964
STRIP FILM MAGAZINE FOR CAMERAS
Irving W. Doyle, Massapequa, N. Y., assignor to Fairchild Camera and Instrument Corporation, Jamaica, N. Y., a corporation of Delaware
Original application March 23, 1946, Serial No. 656,612, now Patent No. 2,537,040, dated January 9, 1951. Divided and this application October 10, 1950, Serial No. 189,375
5 Claims. (Cl. 88—17)

1. In a strip film magazine for a camera, the combination of, a casing, film supply and take-up spools rotatably mounted in said casing, a pair of ratchets respectively connected to said spools, a pair of members rotatably mounted in said casing respectively adjacent said ratchets, a pair of pawls pivotally mounted in said casing and respectively in ratcheting engagement with said ratchets so as to drive said ratchets upon operation of said pawls in one direction, a loadable spring connected to each of said pawls and biasing them in ratchet driving direction of movement, a driving connection between respective members and pawls adapted to drive said pawls in a spring loading direction upon opera-



tion of said members in one direction, and means operated by the camera for driving both of said members in spring-loading direction and which upon release allows said springs to drive said pawls and accordingly said ratchets.

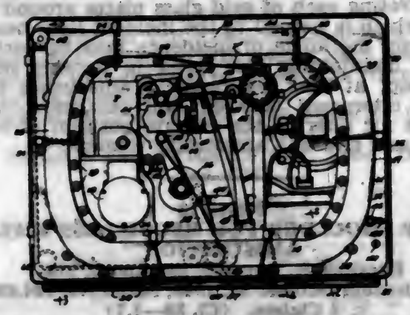
2,651,965
SHUTTER-GOVERNOR ASSEMBLY FOR MOTION-PICTURE APPARATUS
Otto Wittel, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application February 10, 1951, Serial No. 210,825
6 Claims. (Cl. 88—17)



1. In motion picture apparatus having a mechanism supporting frame provided with an aperture and a cylindrical recess, said aperture being within the circular area defined by said recess and in the bottom wall thereof, the combination comprising means for advancing a film strip past said aperture, and a shutter-governor assembly rotatably mounted within said recess and operatively connected to said advancing means and including a diametrical cross bar having resilient arcuate arms integral therewith and extending from each end thereof in opposite directions, and circular segmental members secured to each of said arms, one of said members being provided with a shutter opening adapted to be aligned with said aperture for intermittently exposing said film strip to the light entering said aperture, and adapted upon rotation of said assembly to flex said arms outwardly whereby the peripheral surfaces of said arms engage said recess to control the speed of said advancing means.

2,651,966
CONTINUOUS LOOP FILM PROJECTION APPARATUS
Arthur J. Bradford, Chicago, Ill.
Application July 29, 1949, Serial No. 107,436
16 Claims. (Cl. 88—18.7)

15. In a continuous loop film projection apparatus having a projector and a motor-driven film-feeding mechanism, a magazine, a coil comprising a plurality of layers of film, means for progressively withdrawing film from said coil and means for re-winding the film on said coil, said coil comprising a pair of substantially



straight horizontal segments spaced one from the other and non-circular substantially elliptical curved end segments connecting said horizontal segments.

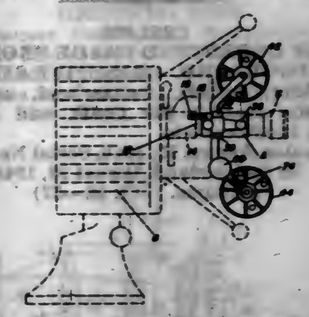
2,651,967
MOTION-PICTURE PROJECTOR CABINET
Leonard L. Thomas, Sacramento, Calif.
Application May 22, 1950, Serial No. 163,377
2 Claims. (Cl. 88—24)



1. In a motion picture projector cabinet, an enclosed cabinet provided with a hinged top movable between open and closed positions, a screen mounted on said top, said screen being retained entirely within said cabinet when said top is closed and being entirely exposed when said top is open, a pair of arcuately shaped portions depending from said top adjacent the side edges of said top and adapted to form extensions of the sides of said cabinet when said top is in raised position, a motion picture projector within said cabinet, a parabolic reflector within said cabinet, said projector and said parabolic reflector being so positioned that a picture projected from said projector to said parabolic reflector will be reflected and enlarged by said reflector upon said screen when said screen is in raised position, and a lip adjacent the inner edge of that end wall adjacent the screen and adapted to be engaged by the lower edge of said screen when the same is in elevated position to retain the same in proper predetermined elevated position.

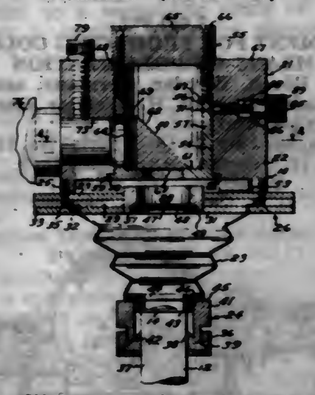
2,651,968
MANUALLY ACTUATED DEVICE FOR PROJECTING SUCCESSIVELY SPACED FILM FRAMES
Joseph Frey, Dearborn, Mich., assignor to York Industries, a division of York Manufacturing Company, a partnership
Application December 27, 1950, Serial No. 202,989
2 Claims. (Cl. 88—28)

1. An attachment for a motion picture projector to permit prolonged viewing of individual film frames comprising a member having a projection aperture therein, oppositely extending arms carried by said member and having film reel carrying spindles, a lens tube receiving cylinder hingedly mounted on said member and adapted to receive a projector lens tube in focusing relation relative to the aperture in said member, film guiding means to direct film between said aperture carrying member and said lens tube receiving cylinder from a reel carried by one of said film reel carrying spindles to a reel carried by the other of said film reel carrying spindles, yielding means between said member and the lens tube receiving cylinder to yieldingly urge film to a predetermined position relative to the



projection aperture, motion transmitting means to shift film to align successively spaced film frames with the aperture in said member, said motion transmitting means comprising a rotatable disk having a series of equally spaced indentations, a detent adapted to successively engage said indentations and so related to the spacing of the indentations in the disk that when the disk is rotated to shift the detent from one adjacently disposed indentation to another the adjacently disposed film frames are successively aligned with the projection aperture in said member, and a knob to actuate said motion transmitting means and disk.

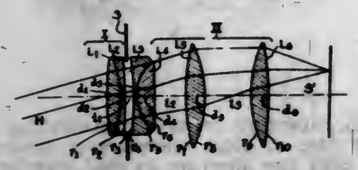
2,651,969
MULTIPURPOSE MICROSCOPE ATTACHMENT
Edward J. Thor, San Francisco, Calif.
Application June 14, 1952, Serial No. 293,531
8 Claims. (Cl. 88—40)



1. A multipurpose microscope attachment of the character described comprising a supported light excluding housing having an upper casing member attached at the lower portion thereof to an extensible bellows the lower portion of which may engage the eyepiece portion of a microscope, a ground surface transparent plate disposed

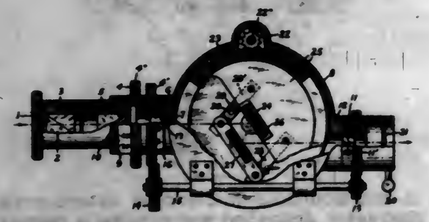
above and positionable in the focal plane of said eyepiece, an iris diaphragm disposed above and in alignment with said transparent plate, rotatable reflector means disposed within said casing member above said diaphragm on the optical axis of the microscope and at an angular inclination therewith, means provided in said casing member for positioning a plurality of peripherally spaced instruments so as to intercept an image reflected by said reflector means from said ground surface transparent plate, and indexing means provided in said casing for positioning the rotatable reflector means.

2,651,970
HIGHLY CORRECTED IMAGE PRODUCING PHOTOGRAPHIC OBJECTIVE SYSTEM
Hans Tiller, Zurich, Switzerland, assignor to Cycloptic Anstalt für Optik und Mechanik, Vaduz, Liechtenstein
Application August 17, 1949, Serial No. 110,718
In Switzerland August 24, 1948
4 Claims. (Cl. 88—57)



1. In a photographic objective lens unit, the combination comprising a front lens on the object-side determining substantially the aperture ratio of the whole lens system, being positioned substantially together with the front focal point of the rear lens portion, and a lens assembly on the image-side separated from said front lens by an air space, characterized by having the principal rays with their associated pencils of rays which are incident upon said front lens deflected towards the optical axis by said image-side lens assembly, the overall length of said objective being between at least 0.8 and at most 2 times the total focal length of said objective, while the focal length of said image-side lens assembly differs by an amount not exceeding 20% from the total focal length of the objective.

2,651,971
INSTRUMENT FOR PRODUCING COLORS BY MEANS OF POLARIZATION
Siegfried Rösch, Wetzlar, Germany, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany, a German corporation
Application July 18, 1950, Serial No. 174,289
In Germany August 29, 1949
8 Claims. (Cl. 88—65)



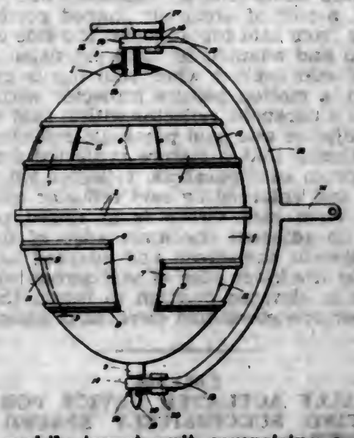
1. An instrument for producing light of a predetermined color of predetermined saturation, comprising at least two light polarizing systems arranged in series in the path of a light beam, each of said systems including at least two polarizers, of which one is a reflective polarizer consisting of at least two glass plates, the reflective planes of said glass plates being arranged parallel to and spaced from each other, and means for pivoting each of said glass plates around an axis which is normal to the incident light beam, whereby the angle of incidence may be varied, while maintaining the plates in parallel relationship; at least one optically anisotropic element interposed between said polarizers; and means for altering the relative position of said polarizers and said anisotropic element.

2,651,972
STOP SHOULDER FOR RECOILLESS RIFLE AMMUNITION
Edmund H. Engelke, Annapolis, Md.
Application October 31, 1949, Serial No. 124,691
4 Claims. (Cl. 89—1.7)
(Granted under Title 35, U. S. Code (1952), sec. 266)



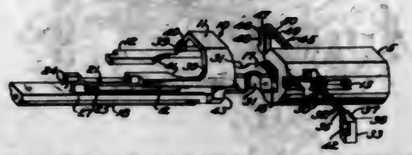
2. In a round of ammunition for a recoilless rifle having a barrel comprising a cartridge case and a projectile inserted in the mouth of said case, a stop shoulder consisting of an interrupted, rolled-in bead formed in the walls of said case, said stop shoulder engaging the rear of the barrel of said rifle when the round has been inserted in the rifle whereby said cartridge is positioned with respect to said barrel.

2,651,973
TURRET UNIT
Leo Elliott, Bakersfield, Calif.
Application January 16, 1951, Serial No. 206,165
5 Claims. (Cl. 89—36)



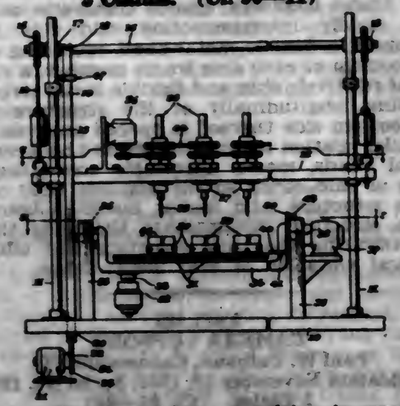
1. A mobile turret unit comprising a pair of initially separate turrets of substantially dome shape, said turrets being disposed with their axes horizontal and their open ends in engagement, a transverse axle, the turrets being quick-removably journaled on the axle, a draft yoke straddling the engaged turrets from the front, means quick-detachably connecting the rear ends of the yoke and axle, a central hitch on the yoke, and heavy-duty ground-engaging rings projecting radially from the turrets at said open ends, said rings being in matching abutment.

2,651,974
BREECH LOCKING MECHANISM
Clarence E. Simpson, Wilbraham, Mass., assignor to the United States of America as represented by the Secretary of War
Application September 22, 1949, Serial No. 117,101
3 Claims. (Cl. 89—187)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a firearm having a barrel, a reciprocable bolt, and a firing pin slidably mounted in the bolt, the combination of, a tubular member fixedly secured within the firearm and having one end arranged to slidably receive the front end of the bolt, means at the opposite end of said tubular member for detachably retaining the breech end of the barrel, a bolt extension having a channel for slidably receiving the rear end of the bolt, means for fixedly securing the firing pin to said bolt extension, an actuator member slidably engaged with the exterior of said fixed tubular member and arranged to transfer recoil movement thereof to said bolt extension, lug means on the bolt for engagement with said firing pin securing means whereby rearward movement of said bolt extension retracts the bolt and firing pin, a pair of locking members slidably retained in said tubular member and arranged for movement transverse of the longitudinal axis of the bolt, a first means in said actuating member for camming said locking members outwardly to unlock the bolt from said fixed tubular member, and a second means in said actuator member for camming said locking members inwardly to engage with and lock the bolt to said tubular member in a battery position.

2,651,975
INTERNAL CARVING MACHINE
Milten Seloff, Flushing, N. Y.
Application May 11, 1949, Serial No. 92,681
5 Claims. (Cl. 90—11)



1. A drilling machine comprising in combination a base support member, a column mounted upon said base, a tool support member slidable axially with respect to said column, means for moving the tool support axially of the column, a work support means mounted upon the base, a swingable cradle member below the tool support having the work support means rotatably secured thereto, means to swing said cradle through an arc, tool means on said tool support, means to simultaneously turn said tool, rotate the work support and reciprocate the tool support in timed relationship with each other and the cradle swing.

2,651,976
GRINDING DISK
Daniel Manson Sutherland, Morrisville, Pa., assignor to Lionel M. Sutherland and Douglas G. Sutherland, as trustees
Application November 5, 1952, Serial No. 319,813
14 Claims. (Cl. 92—26)

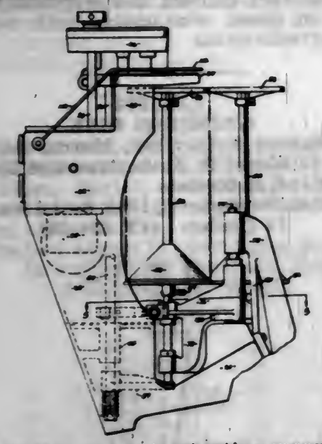


1. A grinding disk for use in attrition mills having a grinding face with a relatively wide crosswise grooved inner annular area, a crosswise grooved intermediate annular area of substantially the same width, a crosswise grooved narrower marginal check ring area at the periphery, and concentric annular channels separating said areas, the longitudinal axes of the grooves in the marginal or check ring area being tangential to a concentric circle of which the diameter is smaller than the diameter of the disk.

2,651,977
MACHINE FOR SECURING END CLOSURES TO CONTAINER BARRELS
Isaac L. Wilcox, Fulton, and Nathaniel S. Cole, Baldwinsville, N. Y., assignors to Oswego Falls Corporation, Fulton, N. Y., a corporation of New York
Application September 28, 1948, Serial No. 51,624
3 Claims. (Cl. 92—55.1)

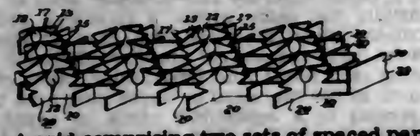
1. A machine for securing an end closure to the end of a container barrel comprising a frame, a head member mounted on the frame, a pair of crimping rolls journalled in the head, said head being cooperable upon engagement with a container to position the end portion of the container and an end closure seated thereon into crimping relation with said rolls, a carrier having a plurality of container supports, said carrier being movable about an axis extending parallel to and arranged at one side of the axis of the head to alternately move said supports from a loading

position to a position in axial alinement with the head, said supports being mounted in the carrier for axial movement toward and from the head, a power operated support actuating means operable to effect elevation of the support positioned in axial alinement with the head and move the container on said support into engagement with the head, a latch member mounted on the carrier in juxtaposition to each of said supports, a detent



carried by said support actuating means and being normally positioned to be engaged by said latch members when each support is moved into axial alinement with said head and being movable with said actuating means upon elevation of the support out of engagement with said latch, and means operable to close the crimping rolls on the peripheral portion of the end closure of the container during elevation thereof.

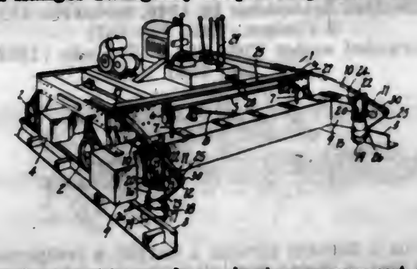
2,651,978
ANTISLIP DECKING
George W. Causey, Pittsburgh, Pa.
Application November 24, 1948, Serial No. 61,865
3 Claims. (Cl. 94—5)



1. A grid comprising two sets of spaced parallel bars, a series of spaced projections on the upper edge of each bar, interlocking slots in each space between said projections on one edge of one set of parallel bars, interengaging slots in corresponding positions on the opposite edge of the other set of parallel bars, both sets of spaced parallel bars interlocked in intersecting crossed relation by the corresponding slots with the tops of the spaced projections forming a deck and with their ends grouped around the intersections, the ends of said projections being undercut to provide sharp corners adjacent said intersections.

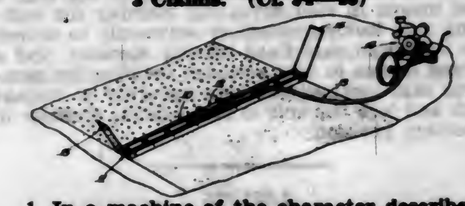
2,651,979
PAVING MACHINE, INCLUDING MEANS FOR SPADING AT THE SIDES OF THE FORMS
Cerwill Jackson, Ludington, Mich., assignor to Jackson Vibrators, Inc., Ludington, Mich., a corporation of Michigan
Application June 2, 1948, Serial No. 30,697
8 Claims. (Cl. 94—48)

3. In a machine of the class described the combination with a carriage adapted to travel on a form, of a screed translated with the carriage, an arm on said carriage projecting forwardly in overhanging relation to the screed and having a guide pulley at its front end, a vibrating unit provided with a submersible vibratory member, a hanger supported by and swingably connected to said arm, the axis of swinging movement of the hanger to the arm being disposed transverse to the direction of travel of the carriage on the form, said hanger swingably suspending said vibrating



unit from said arm for swinging movement at the front of the screed and in a plane approximately parallel of the path of travel of the carriage and at the inner side of and adjacent to the form on which the carriage is traveling, and means adjustably limiting the rearward swinging movement of the vibrating unit on said hanger, including a flexible cable connected to said vibrating unit and supportingly guided by said pulley, said pulley being disposed forwardly of the point of connection of said cable to said vibrating unit.

2,651,980
MACHINE FOR COMPACTING MATERIALS
Edmund E. Wells and Everette Kelley West, Tulsa, Okla.
Application December 13, 1948, Serial No. 65,032
3 Claims. (Cl. 94—48)



1. In a machine of the character described, a truss structure including a pair of spaced longitudinal side frame members and spaced transverse members bridging the space between said side frame members, spaced transverse connectors rigidly interconnecting said side frame members, a flexible metal band extending along the bottom of each side frame member, a plurality of relatively thin and flexible metal strips extending longitudinally of the structure along the bottom side thereof in spaced and relatively parallel relation to one another and between said metal bands, means adjustably connecting the ends of said strips to the opposite ends of the truss structure, and means mounted upon the truss structure intermediate the ends thereof for vibrating the truss structure and effecting vertical vibration of said metal strips.

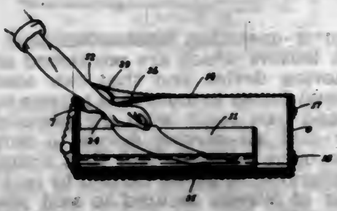
2,651,981
CAMERA SUPPORT
Paul W. Calhoun, Gainesville, Fla.
Application November 30, 1950, Serial No. 198,423
1 Claim. (Cl. 95—86)

A camera support comprising an elongated substantially rectangular ledge, a camera attaching screw carried by and extending through the ledge adjacent one end thereof, an elongated rectangular wall carried by the ledge and extending upwardly therefrom adjacent one longitudinal side edge thereof, said wall being of less length than the ledge and having one end spaced from the camera attaching screw to provide clearance for a camera resting on the ledge, a mouth piece



carried by the wall adjacent its upper edge and extending outwardly from said wall in a direction opposite the ledge, said mouth piece being adapted to enter the mouth of the user and to be clamped between the teeth of the user while taking a picture, and means detachably supported on the ledge between the camera and the ledge for positioning the view finder of the camera at the eye level of the user.

2,651,982
FILM DEVELOPING TABLE
Beatrice Benita Weaver, Yuba City, Calif.
Application March 23, 1951, Serial No. 217,107
4 Claims. (Cl. 95—91)

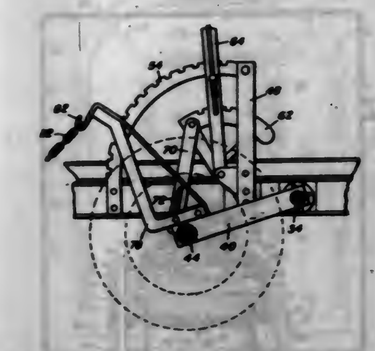


1. A film developing table comprising an elongated light-tight compartment, the latter including a flexible but relatively taut, opaque cover, means removably securing the cover on the table over the compartment, a row of tanks in the compartment, a plurality of openings in the cover for hand and arm entry into the compartment, sleeves on the cover within the compartment in communication with said openings and extending transversely of the compartments, elastic cuffs on the sleeve, and elastic cords suspending the sleeves at their free ends from the cover above the tanks.

2,651,983
MECHANICAL TURN LIFT
Willie N. Weast, Silverton, Tex.
Application September 2, 1949, Serial No. 113,715
5 Claims. (Cl. 97—46.87)

4. In a power lift for agricultural implements, a frame, a crank having its upper end pivoted to said frame for vertical swinging movement, an axle carried at the lower end of said crank having a wheel rotatably mounted thereon, a link provided with an aperture and an elongated slot therein, pivot pins carried by said frame and said axle, one of said pins being pivotally received in said aperture, the other of said pins

being slidably and pivotally received in said slot, manually operable means carried by said frame for adjusting the vertical position of the pin carried by said frame relative thereto, an upwardly extending bar rigidly secured to said lower end of said crank, a flexible member having a first end secured to an upper end of said bar, said flexible member being entrained over



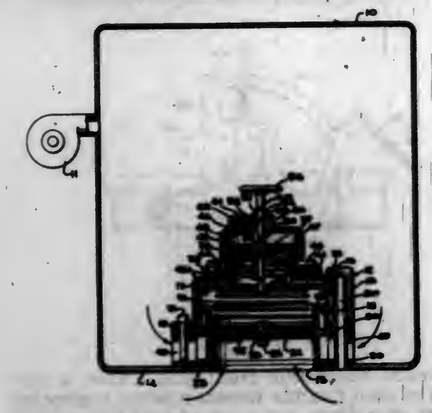
guide means depending from said frame, a second end of said flexible member being connected to a lever carried by a tongue of said frame, said lever being operative in response to movement of a towing vehicle relative to said frame to impart a downward thrust on the upper end of said bar to pivot said crank within the limits of the connection between said slot and its associated pin.

2,651,984
CULTIVATOR ATTACHMENT
James A. Vawter, Milan, Tenn.
Application August 22, 1949, Serial No. 111,630
1 Claim. (Cl. 97—47.16)



An agricultural machine comprising a tractor including a frame supported by traction means spaced on opposite sides of the frame, a transverse shaft secured to the frame and having its opposite end portions projecting into the spaces between the frame and the traction means, a pair of tubular bearing bushings rotatably journaled on and longitudinally slidable on said portions, a pair of spaced collars adjustably secured to each end portion with the associated bushing being retained therebetween, a pair of implement support arms, means for detachably securing the arms to the bearing bushings, said means comprising a pair of sleeves each having complemental clamping sections, each of the arms being attached to a section of one of the pair of sleeves, means for clamping the complemental sections of the pair of sleeves about the pair of tubular bushings, said arms projecting rearwardly of the shaft in the spaces between the frame and the traction means and being adapted to support implements at their rear ends, and means carried by the frame for adjustably supporting the arms.

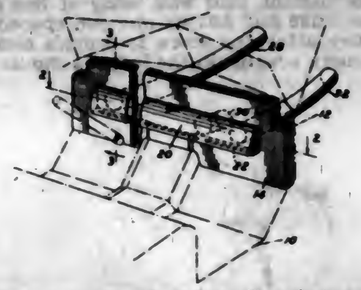
2,651,985
VALVE
Walter Herman Warstler, Los Angeles, Calif., assignor to The Garrett Corporation, Los Angeles, Calif., a corporation of California
Continuation of application Serial No. 629,422, November 19, 1945. This application July 17, 1952, Serial No. 299,481
3 Claims. (Cl. 98—1.5)



1. In a device for controlling the pressure within an enclosure having a connection with atmosphere: means defining a valve port communicating with said connection; a valve seat for said valve port; movable pressure sensitive control means, including a flexible diaphragm and a cup-shaped valve member attached to the central portion of said diaphragm and extending toward and having the rim thereof cooperating with said valve seat for controlling the flow of fluid through said port; walls, including said diaphragm, defining a chamber having a restricted inlet connection with the enclosure, said pressure sensitive control means being subjected on one side to chamber pressure and the annular portion on the opposite side outwardly of said valve member being subjected to enclosure pressure, the interior of said cup-shaped valve member being subjected to ambient atmospheric pressure; a passage adapted to connect the chamber with ambient atmosphere; a pilot valve controlling said passage; a bellows for controlling said pilot valve, the interior of said bellows being adapted to be connected to atmosphere and the exterior thereof being adapted to be subjected to enclosure pressure, said bellows being so calibrated as to collapse and open the pilot valve when the differential of pressure between that in the enclosure and ambient atmosphere exceeds a predetermined value; and yielding means urging the valve member in the closing direction.

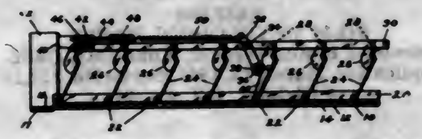
2,651,986
DASH PANEL
James W. Greig, Detroit, Mich., assignor to Woodall Industries, Inc., Detroit, Mich., a corporation of Michigan
Application January 19, 1951, Serial No. 206,877
4 Claims. (Cl. 98—2)

1. An automobile dash panel adapted to overlie the fire wall which separates the engine compartment from the passenger compartment of an automobile body, said panel comprising an outer finish lamination adapted for exposure within the passenger compartment and a complementary lamination of insulation material secured to the finish lamination and adapted to overlie the fire wall, said laminations being substantially coextensive and substantially coextensive with that portion of the fire wall within the passenger compartment of the body, said laminations being spread apart throughout complementary areas



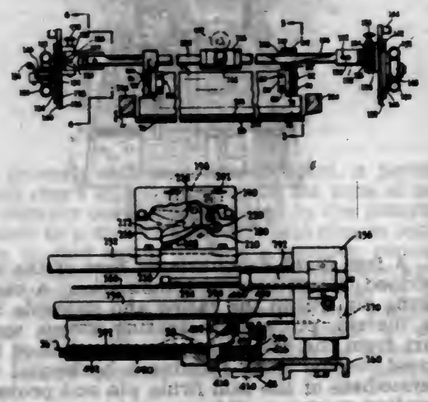
providing an air chamber therebetween, said chamber provided with an air intake passageway thereinto from the engine compartment and with an air exhaust opening leading therefrom into the passenger compartment.

2,651,987
AIR-MOVING DEVICE
Carl M. Buttner, Memphis, Tenn., assignor to Hunter Fan and Ventilating Company, Memphis, Tenn., a corporation of Tennessee
Application July 17, 1950, Serial No. 174,141
7 Claims. (Cl. 98—116)



1. A louver-operating mechanism, that can be used with louvers which are positioned adjacent an air-moving device and that can coact with gravitational forces to move said louvers to closed position and can coact with air pressure generated by said air-moving device to move said louvers to open position, and that comprises a frame, a plurality of pivots carried by said frame, a plurality of louvers secured to said pivots for rotation relative to said frame, a plurality of crank arms secured to and projecting from said louvers, a bar, a second plurality of pivots securing said crank arms to said bar to provide conjoint movement of said louvers, a lever pivoted intermediate its ends to said bar, the pivot for said lever being adjacent to but spaced from the pivot for the crank arm of one of said louvers, an inclined surface on said one louver that is disposed intermediate the pivot for said one louver and the free edge of said one louver, a wheel that is rotatably secured to one end of said lever and bears against one end of said inclined surface on said one louver whenever said louvers are in closed position, said wheel being movable by rotation of said lever to the other end of said inclined surface when said louvers are in open position, said one end of said inclined surface being adjacent the pivot for said one louver and said other end of said inclined surface being adjacent the free edge of said one louver, said one end of said inclined surface being below the level of said pivot for said lever and below the level of said other end of said inclined surface whenever said louvers are in closed position, a spring which has one end thereof secured to said bar and has the other end thereof secured to the other end of said lever, said spring acting through said lever to apply a louver-closing force on said one louver and to apply a louver-opening force on said bar, the spacing between the pivot for said lever and the pivot for the crank arm of said one louver causing said lever to rotate as said louvers move toward and away from open and closed positions, said rotation of said lever varying the effectiveness of the forces applied by said spring to said bar and said one louver, said other end of said lever extending away from said one end of said spring whenever said louvers are in the closed position, said other end of said lever extending toward said one end of said spring whenever said louvers are in open position.

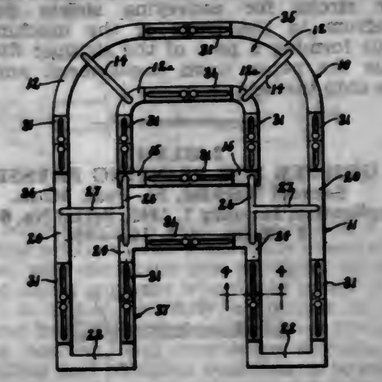
2,651,988
STENCIL PRINTING APPARATUS
John B. Thomas, Watertown, and Courtney E. Moorhouse, Waterbury, Conn., assignors to Rote-Matic Screen Printer, Ltd., New York, N. Y., a corporation of New York
Application February 5, 1947, Serial No. 726,594
24 Claims. (Cl. 101—123)



6. In combination in a silk screen printing machine, a printing table, a pair of parallel rails extending from the back to the front of the table and spaced apart in a direction from side to side of the table, a scraper between said rails, a means to mount said scraper on said rails whereby it can be moved back and forth across said table, power driven means to move said scraper back and forth across said table, switch means controlled by said scraper to reverse the direction in which the power driven means moves said scraper as said scraper approaches one end of the machine and to render said power driven means ineffective to move said scraper as said scraper approaches the other end of the machine, brake means to aid in stopping said scraper when it is reversed and when said power driven means is rendered ineffective, switch means at the front and back of said machine actuable by said scraper to render said brake means effective, means to mount all said switch means for adjustable movement along said rails, and buffing means at the front and back of the machine to aid in stopping the scraper when it is reversed and when the power driven means is ineffective to move said scraper.

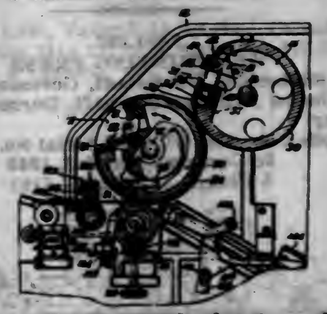
2,651,989
MEANS FOR USE IN STENCILING AND THE LIKE
William J. Kerr, Warren, Ohio
Application July 2, 1952, Serial No. 296,995
2 Claims. (Cl. 101—127)

1. An adjustable frame for forming a stencil character of varying dimensions upon a surface, comprising a plurality of elongated frame members disposed in end to end relation for outlining said character, a plurality of elongated connecting members superposed upon and respectively spanning the adjacent ends of a pair of aligned frame members, said connecting members and said frame members each having the same transverse dimension to define therealong a



smooth coincidental continuous edge for outlining said stencil character, and means for adjustably securing said connecting members to adjacent ends of said frame members to permit relative movement of the assembled members to vary the size of the stencil character without affecting the aforesaid smooth unbroken outline thereof, and tie connectors extending between disconnected parts of said frame when required.

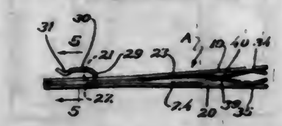
2,651,990
SHEET CONTROLLED ROTARY PRINTING PRESS
Clyde W. Johnson, Islington, Mass., assignor, by mesne assignments, to A. B. Dick Company, Niles, Ill., a corporation of Illinois
Application July 13, 1948, Serial No. 38,465
5 Claims. (Cl. 101—233)



1. In a printing machine wherein a sheet of paper is pressed between two printing cylinders one of which carries a resilient blanket and serves the purpose of transporting an ink impression to the paper, the other having a smooth surface and serving the purpose of pressing the sheet against the blanket, means for feeding successive sheets of paper into the front of the machine, means for returning successive printed sheets to the front of the machine with printed sides uppermost, comprising carriers mounted for reciprocal movement in the direction toward and away from the rear of the printing cylinders gripper jaws mounted on the carrier for movement therewith and including means forming a part of the gripper jaws to render same effective to grip the leading edge of each sheet as it

emerges from between the printing cylinders and leading it rearwardly and release the leading edge of the sheet near the end of the rearward stroke, fixed stripper fingers positioned alongside the grippers to engage the leading edge of the paper for removing same from the gripper jaws when open, a forwardly moving endless belt beneath the gripper jaws when in the rearward end of their stroke for conveying sheets deposited therefrom to the front of the machine, and means forming a part of the stripper fingers to buckle the paper upon engagement and guide same onto the belt.

2,651,991
GRIPPER FOR PRINTING PRESSES
Samuel Meckler, St. Paul, Minn.
Application January 7, 1949, Serial No. 69,716
1 Claim. (Cl. 101—408)



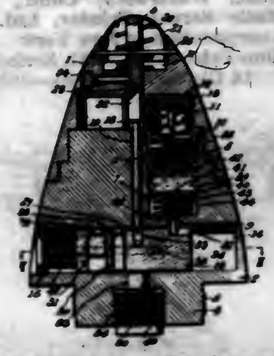
A gripper comprising a pair of resilient fingers anchored relative to each other at one end thereof, a pair of springs between said fingers, each spring including first, second and third sections, said first sections having their distal ends anchored between the anchored ends of said resilient fingers, said second sections residing intermediate said first and third sections and being in diverging relation with respect to said first sections, and said third sections being at a lesser degree of divergence than said second sections and slidably bearing against said resilient fingers whereby flexing of said resilient fingers toward each other will produce a double bowing of said springs in which the junctures of said first and second sections abut against each other and the junctures of said second and third sections abut respectively against said resilient fingers.

2,651,992
WEB PRINTING PRESS
Willy Säuberlich, Darmstadt, Germany, assignor to Goebel Aktiengesellschaft, Darmstadt, Germany
Application May 23, 1950, Serial No. 163,637
In Germany March 5, 1949
5 Claims. (Cl. 101—416)



1. In a web printing press, a plurality of printing units for multi-color printing arranged in series, drying means arranged below and for each printing unit and extending parallel a certain distance along the path of travel of the web adjacent the printing side of the paper web, guide plates arranged adjacent the paper web extending the length of the drying means and on the side of the paper opposite the printing side to restrict the amount of diversion of the paper web due to the effect of the drying means, rollers for guiding the web arranged in the press so that the web leaving each printing unit is guided downwards to its drying means arranged beneath its printing unit, and a main casing commonly enclosing all of said units and drying means, said casing comprising a plurality of upper compartments each encasing in its top portion one of the printing units, and a lower compartment extending along the base of the press underneath the compartments of the printing units and connected therewith and encasing all of the drying means.

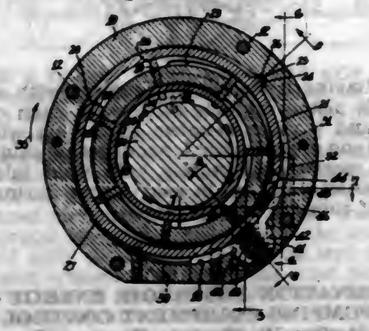
2,651,993
DELAY ARMING FUZE
Harold Bernef and Frank A. Rogers, Edgewood, Md., assignors to the United States of America as represented by the Secretary of the Army, as trustee
Application January 3, 1950, Serial No. 136,616
5 Claims. (Cl. 102—80)
(Granted under Title 35, U. S. Code (1952), sec. 266)



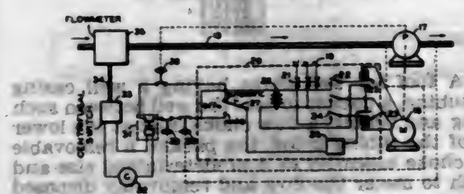
1. A free flight delay arming fuze of the class described, comprising in combination; a casing, a firing pin within the casing and slideable relative thereto, projectile actuating means spaced apart from the firing pin along the axis of slide thereof; casing walls forming a horizontal bore intermediate of the said firing pin and projectile actuating means; a slider in said bore, means to impel the slider in the bore, a detonating charge carried by said slider and normally being out of alignment with the firing pin and projectile actuating means; means to limit the travel distance of the slider whereby the charge may be brought into said alignment, and means to prevent the said alignment for a period of time after the fuze has left a gun, said means comprising a movable lock pin operable into and out of said bore and engageable with said slider to arrest the impelling thereof, means tending to move the lock pin out of engagement with said slider, rigid means acting thereon to prevent this disengagement and set back actuated means operable to effect the slow collapse of the said rigid member and thereby permit the disengagement of said pin from said slider, said rigid means comprising a flexible bellows filled with an incompressible fluid and said set back actuated means comprising a movable puncturing device located forward of the bellows and within puncturing distance thereof.

2,651,994
VARIABLE CAPACITY PUMP WITH DUAL DISCHARGE MEANS
Warren H. De Lancey and Edwin E. Vincent, Springfield, Mass., assignors, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application December 12, 1946, Serial No. 715,843
7 Claims. (Cl. 103—3)

1. In a variable delivery fluid pump, an outer housing providing a hollow chamber having a fluid intake port and first and second delivery ports, a modulator ring rockably mounted on a pivot axis adjacent to its outer periphery to swing within said chamber and presenting a substantially unbroken interior surface, a rotor rotatable within said ring and having radially slidable vanes cooperating with the interior surface of said ring, and spring means normally biasing the ring into eccentric position relative to the rotor so that the vanes will produce the pumping action thereby to force fluid under pressure through said first delivery port, a portion of said ring's interior surface in the zone of said first delivery port being acted on by the pumping pressure in a direction to shift said ring in opposition to said spring toward a position concentric with said rotor, said ring being effective when in its position of minimum eccentricity to expose said second delivery port to the pumping action, said ring being effective while in said first mentioned eccentric position to close off said second delivery port from said pumping action.

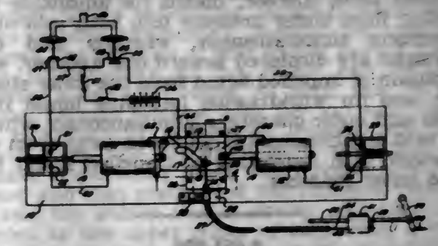


2,651,995
SWITCH FOR AUTOMATIC PUMPING UNITS
Charles W. Blackburn, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 23, 1951, Serial No. 252,715
12 Claims. (Cl. 103—21)



1. In a pipe line system, in combination, a pair of main pumping stations, a pipe line connecting said stations, and a booster station connected in the pipe line between said main pumping stations, said booster station including a pump connected in the pipe line, means for driving said pump, a flow meter at said booster station and connected in said pipe line, and a control device responsive to said flow meter to operate said driving means and pump when the flow rate in said pipe line rises above a predetermined value, said control means disabling said driving means when the rate of flow falls below such predetermined value.

2,651,996
PUMP MOTOR CONTROLLER
Donald R. Nahmens, Milwaukee, Wis.
Application August 18, 1950, Serial No. 180,132
15 Claims. (Cl. 103—27)



1. In combination: a fluid pump having a discharge line provided with a normally closed shut-off valve, said discharge line normally containing fluid under pressure when said pump is operating; a motor drivingly connected to said pump and having a speed control lever normally in idling position, said lever being movable between idling and pumping positions; a source of electrical current; a solenoid connected to said speed control lever in a manner to move said lever to pumping position when said solenoid is energized; a first pressure switch connected to said source of current and to said solenoid and responsive to a predetermined pressure in said discharge line to cause energization of said solenoid and movement of the speed control lever to pumping position; mechanism actuated by a second solenoid connected to said source of current for moving said speed control lever to idling position when said second solenoid is energized; and a second pressure switch responsive to a predetermined higher pressure in said discharge line to cause energization of said second solenoid and movement of the speed control lever to idling position.

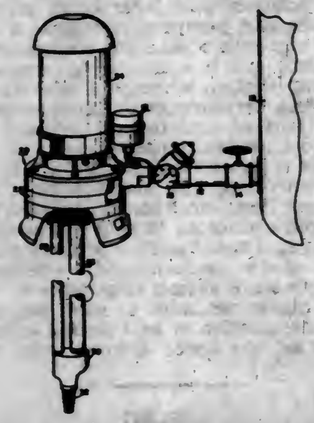
2,651,997
PUMP
John J. Lyth, Valleyfield, Quebec, Canada
Application May 29, 1950, Serial No. 165,051
9 Claims. (Cl. 103—44)



1. A diaphragm pump comprising a short tubular body; internally concave end caps for said body; flexible diaphragms engaged at their edge portions between the body and the end caps, dividing the space enclosed by the body and end caps into a single inner chamber for impelled liquid defined by said body and both said diaphragms and a pair of substantially equal outer chambers for

impelling liquid, each defined by one of said end caps and one of said diaphragms; bolts passing from cap to cap whereby the diaphragms and body are clamped between the end caps; a passage leading into said inner chamber at the highest point thereof; means for admitting impelling fluid under pressure into both said outer chambers simultaneously, whereby said diaphragms are displaced toward one another, with expulson of impelled liquid from the inner chamber, and for withdrawing impelling liquid from both said outer chambers simultaneously, whereby said diaphragms are displaced away from one another with indrawing of impelled liquid into said inner chamber.

2,651,986
CENTRIFUGAL PUMP
Charles J. Bergh, Vandalia, Ohio, assignor to The Dayton Pump & Manufacturing Company, Dayton, Ohio, a corporation of Ohio
Application June 29, 1951, Serial No. 234,237
6 Claims. (Cl. 103—108)



1. In a centrifugal pump; a rotary centrifugal impeller, a pump housing member extending across one face of said impeller and about the eye thereof so fluid to be pumped can enter said impeller and will be discharged about the periphery thereof, there being a substantial clearance between the periphery of said impeller and said pump housing member, and an adapter member fitting within said pump housing member and about the periphery of said impeller and comprising a scroll like wall part extending from a point closely adjacent the periphery of the impeller about the said impeller to a point closely adjacent the inner surface of said pump housing member, and a partition extending from the first mentioned end of said scroll like wall part outwardly to adjacent the wall of said pump housing member and spaced from the other end of the said scroll like wall part whereby a discharge opening is provided for said adapter member.

2,651,999
ROTARY PUMP
Lester B. Harrington, Pentwater, Mich.
Application November 13, 1950, Serial No. 195,424
2 Claims. (Cl. 103—161)

1. A pump comprising a casing, an annular cylindrical rotor journaled in said casing and having a series of radially extending angularly spaced cylindrical recesses therein closed at one end, each recess having a passage extending from near the closed end thereof axially of said rotor to a port at one end of the latter, a piston in each cylinder, an actuating rod extending from each piston through a bearing in the closed end of the cylinder, circular tracks respectively inside and outside said annular rotor concentric with each other and eccentric to the axis of rotation, one



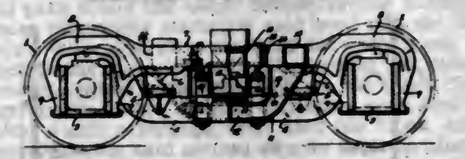
track having traveling engagement with an end of each piston and the other with each of said rods, and a valve member contacting with the ported end of said rotor for connecting said cylindrical recesses alternately with fluid inlet and fluid outlet passages in said casing during each cycle of rotation of said rotor.

2,652,000
COMBINATION RESERVOIR ENERGY AND PUMPING EQUIPMENT CONTROL
Sterling W. Woolsey, Houston, Tex.
Application March 20, 1945, Serial No. 583,746
8 Claims. (Cl. 103—203)



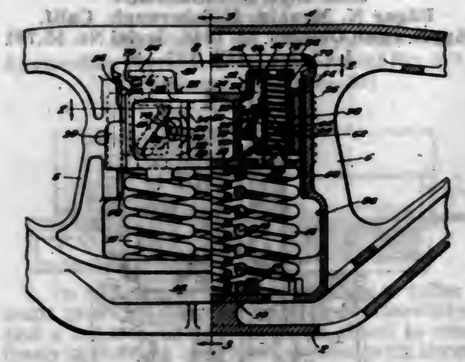
1. A tool for well bores having a well casing and tubing, a packer to seal the well between such casing and tubing, a flow choke inlet at the lower end of the tubing below the packer, a removable flow choke assembly of a predetermined size and length to meter the flow and removably disposed in the tubing above said inlet, means including pivoted dogs mounted on the assembly and releasably engageable with the tubing to latch said assembly including the choke in the tubing, flow choke outlet means from the tubing to the casing above the choke and also above the packer, a plug sealing the tubing above such outlet, a reciprocating pump in the tubing above said plug, pumping inlet conduits connected at one end into the tubing above the plug, the other ends of said conduits extending to points adjacent said packer and below said flow choke outlet means so that the flow through said choke may effect a gravitational separation outside the tubing, so that the pump intake withdraws sand, foreign matter and degassed liquids.

2,652,001
RAILWAY TRUCK
James C. Travilla, Jr., Swarthmore, and William M. Sheehan, Philadelphia, Pa., assignors to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application August 7, 1946, Serial No. 689,832
5 Claims. (Cl. 105—193)



1. In a railway truck, wheel and axle assemblies, equalizers at each side of the truck carried by said assemblies, a rigid truck frame including wheel pieces yieldingly supported on said equalizers and including spaced transoms extending between said wheel pieces and at substantially the same level as said wheel pieces, there being a U-shaped member at each side of the truck having upright legs and a cross bar at the lower end thereof with the upper ends of its legs integral with said transoms and with its cross bar adjacent the level of and parallel with said equalizers and spaced therefrom inwardly of the truck, pads of rubber-like material mounted on the cross bars of said members, and a load carrying bolster extending transversely of the truck between said wheel pieces and transoms and at substantially the same level as said wheel pieces and transoms, bolster carrying springs supported from said pads, the sides of said pads being free to incline for the pads to yield in shear to lateral forces applied in opposite directions transversely of the truck to their upper and lower surfaces respectively to accommodate relative lateral movement of said frame and bolster, there being a shock absorber attached to each end of the bolster and to the adjacent U-shaped member to control the action of the bolster springs.

2,652,002
SNUBBED TRUCK
Claus J. Werner Claeys, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application October 11, 1949, Serial No. 120,738
11 Claims. (Cl. 105—197)



1. In a railway car truck, a side frame comprising spaced columns, a bolster spring-supported from the frame between said columns and comprising spaced top and bottom walls and spaced side walls, spaced inboard and outboard wall and an interconnecting intervening rear wall at each side of the bolster extending substantially vertically and formed integral with said top and bottom walls and defining friction shoe pockets therewith open to respective columns, diagonal ledges in each pocket formed integral with the inboard and outboard walls thereof and with said top and bottom walls, the ledges in each pocket presenting coplanar wedge surfaces sloping downwardly toward the adjacent column, the top wall of said bolster having openings therethrough at the upper end of each pocket, a spring housing at each side of the bolster formed integral with the top wall thereof, each housing comprising inboard and outboard webs and an intervening rear web arranged respectively along the inboard and outboard and rear margins of the adjacent opening in said top bolster wall, a spring seat wall connected to the upper edges of said webs, a friction shoe in each pocket in wedge engagement with the surfaces therewith and in frictional engagement with the adjacent column, and a coil spring within each shoe extending between the wedge surfaces engaged by the shoe and seated at its lower end against a bottom wall of the shoe and at its upper end having several convolutions projecting out of the shoe into the associated housing and seated against the bottom side of the spring seat wall thereof.

2,652,003
SCOTCHING ARRANGEMENT, ESPECIALLY FOR THE SCOTCHING OF ROLLING LOADS ON RAILWAY TRUCKS
René Perte, Paris, France, assignor to Société pour l'Union des Transports Ferroviaires et Routiers, Paris, France, a French corporation
Application April 27, 1949, Serial No. 89,853
In France December 2, 1948
5 Claims. (Cl. 105—368)

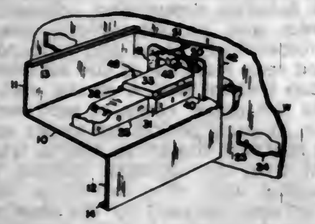


1. In combination with a railroad car having a load-supporting surface, a pair of spaced parallel rails extending longitudinally of said surface and adapted to receive wheel members of a road vehicle to support said road vehicle on the railroad car, chocks adapted to rest upon the rails to prevent movement of the road vehicle, said chocks including a ring member, a common longitudinally extending chock supporting means slidably engaging the ring member of the chocks and secured parallel to the rails on each side of said railroad car whereby to permit movement of the chocks along the rails, said chocks being transversely pivotable about said supporting means for movement into and out of engagement with said rails, and clamping means carried by said chocks for clamping said chocks against said rails.

2,652,004
CARGO BRACE STRUCTURE
Gerald D. Stough, Detroit, Mich., assignor to Whitehead & Kales Company, River Rouge, Mich., a corporation of Michigan
Application July 23, 1951, Serial No. 238,000
11 Claims. (Cl. 105—369)

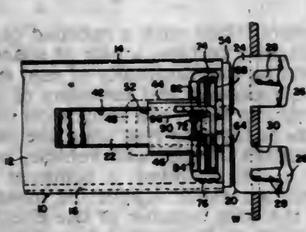
I. A cargo brace comprising a bar having a horizontal web provided with a centrally located slot extending inwardly from one end of said web, a vertical end plate secured to said bar

and having a vertical slot extending upwardly from the bottom edge of said end plate in registration with the slot in said web, a pair of vertically disposed plates at the sides of said slot, a pivot plate connecting the inner ends of said side plates below the top thereof, an abutment plate connecting the tops of said side plates forwardly of said pivot plate, an elongated head having an intermediate shank extending between said plates overlying said pivot plate and underlying said abutment plate, a hook on the outer



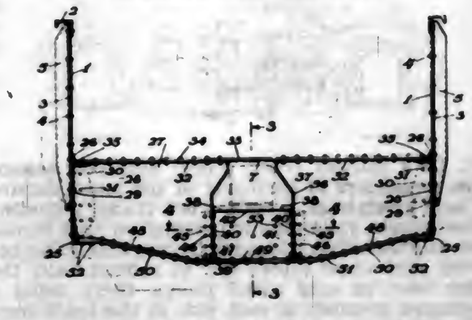
end of said head, an enlargement on the inner end of said head engageable with the upper edge of said pivot plate and the rear edge of said abutment plate to prevent removal of said head from said bar and limiting downward swinging movement of the hook end of said head relative to said bar, said end plate extending upwardly above said abutment plate, a pair of latch elements pivoted to said end plate above said head for lateral swinging movement, said latch elements having hook portions adapted to underlie said head outwardly from said pivot plate.

2,652,005
CARGO BRACE STRUCTURE
Gerald D. Stough, Detroit, Mich., assignor to Whitehead & Kales Company, River Rouge, Mich., a corporation of Michigan
Original application July 23, 1951, Serial No. 238,099. Divided and this application July 28, 1952, Serial No. 301,359
18 Claims. (Cl. 105—369)



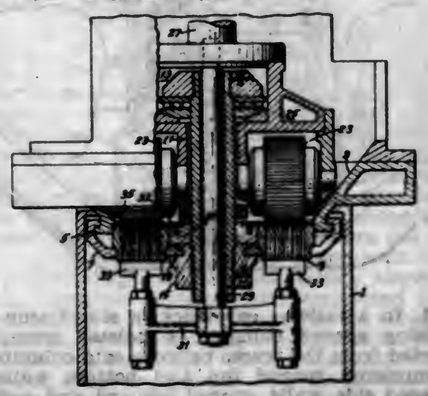
1. A cargo brace adapted to extend between a pair of spaced apart walls comprising a bar, an elongated supporting head connected to said bar adjacent but inwardly from an end thereof for pivoting movement about an axis transverse to the length of said brace and having a part adapted to extend beyond the end of said bar and engage in an opening in one of said walls, an abutment on said bar engageable with said head intermediate its pivot axis and the end of said bar, a latch member pivoted to said bar and including a latch portion adapted to engage said head at the side opposite said abutment and outwardly from the pivot axis of said head to support said head against swinging movement, and manually releasable lock means cooperating with said latch member to prevent movement of said latch member.

2,652,006
CROSS-BEARER CONSTRUCTION FOR RAILWAY CARS
Sigvard Simonsen, Butler, Pa., assignor, by mesne assignments, to Waugh Equipment Company, New York, N. Y., a corporation of Maine
Application July 11, 1950, Serial No. 172,672
3 Claims. (Cl. 105—419)



1. A railway car construction comprising a center sill extending longitudinally of the car, side structures the lower edges of which are located at a level substantially below said center sill, transverse members including body bolsters one near each end of the car and cross bearers intermediate said bolsters, vertically spaced horizontal side strengthening members secured to each side structure one at its lower edge and another at substantially the level of the top of said center sill, at least one of said cross bearers comprising vertical plates having flanged edges that are connected together to form an integral diaphragm structure, two sections of said diaphragm structure each having a flanged outer end substantially equal in height to the vertical spacing between said strengthening members and connected to said side structures and a flanged inner end adjacent the side of said center sill and extending downwardly below said sill at least to the level of the lower edge of the side structure, a third section of said diaphragm structure comprising a flanged plate extending beneath said center sill between said flanged inner edges and connected thereto.

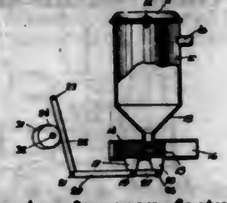
2,652,007
DIE-BOWL ASSEMBLY
Edgar N. Meakin, Hillsborough, Calif.
Application October 21, 1948, Serial No. 55,701
1 Claim. (Cl. 107—8)



In combination, a circular bowl, a bowl floor including a centrally disposed die block and a

ring die surrounding the same, said ring die having a plurality of holes therethrough defining a circular extrusion path along the compression surface of said die, and said bowl having an edge extending over the radial surface of said die, a ring disposed along the radial surface of said die beneath said die bowl edge and bordering said path along the outer circumference thereof, means removably clamping said bowl and die together with said ring clamped between them, a second ring, said second ring having an outer circumferential edge bordering on the inner circumferential edge of said extrusion path and a radial width extending onto said die block, and means affixing said second ring to said die block.

2,652,008
APPARATUS FOR MANUFACTURING ARTIFICIAL MUSHROOMS
James Hudson Zachary, Arlington, Calif.
Application September 30, 1947, Serial No. 775,253
4 Claims. (Cl. 107—8)



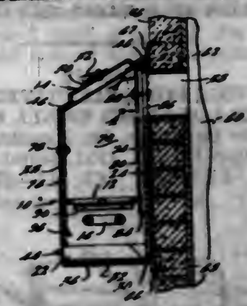
1. An apparatus for manufacturing artificial mushrooms comprising a pressure tank having an opening in the lower end thereof, a pair of mold blocks having a vertical line of separation and having cavities therein adjacent said line of separation, means supporting said mold blocks for lateral slidable movement beneath said tank, and mechanism for sliding said blocks simultaneously, said mechanism including means for limiting the sliding of one of said blocks when said block is in registry with the opening of said pressure tank to thereby seal said opening, said mechanism including means for continuing the motion of the other of said blocks beyond the limit of movement of said one block to provide sufficient relative separation thereof for release of the artificial mushrooms from said cavities.

2,652,009
ROLLING PIN
John Moss, Sr., Chicago, Ill.
Application November 23, 1951, Serial No. 257,815
2 Claims. (Cl. 107—50)



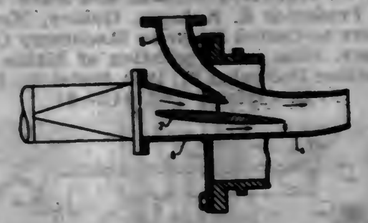
1. In rolling pin means, including a roller element provided with an axial bore therethrough, and a central supporting shaft fitted to operate freely in the said bore and provided with threaded portions extending beyond the confines of the said roller element, pressure applicator means of arcuate cross-sectional configuration and provided with depending ears at each end thereof, clearance bores at the lower portion of the said ears fitted over the said threaded portions, and lock nut means securing the said depending ears to the said shaft.

2,652,010
CHIMNEY WALL MOUNTED INCINERATOR
George H. Willett, Jr., Birmingham, and William R. Vroman, Detroit, Mich., assignors to Incinerator Products Company, Detroit, Mich., a corporation of Michigan
Application June 7, 1951, Serial No. 230,286
5 Claims. (Cl. 110—18)



5. In combination with a chimney wall, said chimney wall having a vent hole therein, a wall type incinerator comprising a sheet metal housing having a vent opening in the rear wall thereof, a metal collar on the outside of the housing fixed to the rear wall thereof around said vent opening, a sleeve fitted into said vent hole in said chimney wall, said collar fitted into said sleeve and, by reason of its engagement therewith supporting the weight of the incinerator and also serving to conduct gases and products of combustion from the incinerator housing into the chimney flue, at least one lug on and extending outwardly from the housing and having an opening therein, and a bolt extending through the lug opening and partially through said chimney wall to fasten said housing to said chimney wall.

2,652,011
PULVERIZED FUEL BURNER
Steven G. van Ramshorst, Dordrecht, Netherlands, assignor to Maria Justina van Tongeren-Beers, Heemstede, Netherlands
Application June 1, 1948, Serial No. 30,495
In the Netherlands June 17, 1947
2 Claims. (Cl. 110—106)



1. A burner of the type described comprising a horizontally arranged tube adapted to be connected at one end to a conduit means for a supply of compressed air, said tube having a bottom wall and a top wall, said top wall being formed with an opening adapted for communication with a nozzle for pulverized fuel, a partition transversely disposed in a portion of the tube and completely separating the bottom and top walls at said portion of the tube, said partition being spaced from the top and bottom walls and having one of its ends underlying and spaced forwardly of the opening, the opposing end of the partition terminating rearwardly of the opening and adjacent to the end of the tube adapted to be connected to the conduit means, said partition being inclined

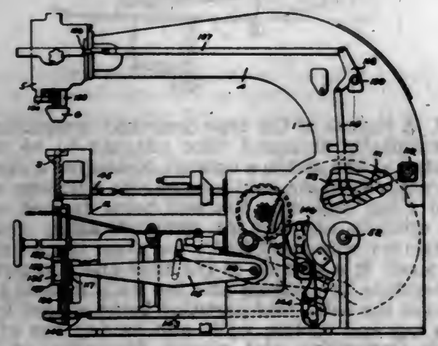
downwardly at its forward end relative to the bottom wall of the tube and defining a tapering nozzle with the bottom wall of the tube, the cross sectional area of the tube above the forward end of the partition being larger than the cross sectional area of the tube above the rearward end of the partition and the forward end of the partition and top wall of the tube defining a mixing zone where the air is mixed with the fuel.

2,652,012
HAND DEVICE FOR SELECTIVELY DISPENSING AND LOCATING SMALL ELEMENTS
Eric Ischinger, Sr., Reading, Pa.
Application May 23, 1951, Serial No. 227,805
4 Claims. (Cl. 111—92)



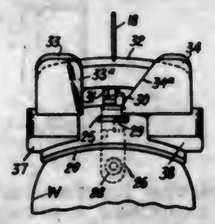
1. A device for holding a plurality of small elements in one hand and then selectively separating and dispensing said elements with a cooperative finger of said hand, which comprises: a handle structure; a neck section on said handle structure; a cavity for holding said elements in said handle structure; said cavity having a bottom surrounded by a wall with a portion of said wall inclined upwardly to said neck section; a chute on said neck section extending above and below the bottom of said cavity and having an inlet above the bottom of said cavity; a transfer surface on said neck section connecting the top of said inclined wall portion of said cavity with the inlet of said chute; and trap means indented in said transfer surface.

2,652,013
MATTRESS TUFTING MACHINE
Arthur W. Wanzer, Hingham, and David G. Way and Frederick E. Kalning, Quincy, Mass., assignors to United Mattress Machinery Co. Inc., Quincy, Mass., a corporation of Maine
Application December 27, 1950, Serial No. 202,921
18 Claims. (Cl. 112—3)



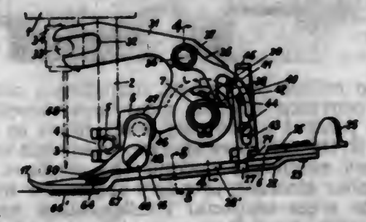
1. A mattress tufting machine comprising a frame, means mounted thereon to pass a tufting braid upwardly through a mattress to be tufted at one point therein and then downwardly through the mattress at another point thereby forming a loop of braid in the mattress with a portion of the loop exposed on the top surface of the mattress, means also carried by the frame to knot together the two legs of the loop beneath the mattress, a rotary toothed member mounted on the frame above the mattress being tufted and over which passes said exposed portion of the braid, and means cooperating with said toothed member to reeve the braid forming the loop through the mattress thereby to pull the knot through the mattress ticking on the under side thereof.

2,652,014
SEWING MACHINE FOR STITCHING LEATHER CASES
James Heggie, Clydebank, Scotland, assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application June 27, 1951, Serial No. 233,734
In Great Britain June 30, 1950
5 Claims. (Cl. 112—49)



1. In a machine for stitching leather cases and the like, the combination with a machine frame including a horizontal work-arm, a vertically reciprocatory and laterally movable needle, a throat-plate disposed at the free end of said work-arm, and presenting a needle thread, a needle feed driver movable in the direction transverse to said work-arm, said needle feed driver including a vertical arm and a horizontal arm formed with a needle slot and having a part entering said needle throat and a projecting part at one side of the needle, a part projecting from said vertical arm and having a projecting tip on the other side of the needle from said first mentioned projecting part, means for rocking said needle driver to impart oppositely directed lateral movements to the needle by way of said projecting parts.

2,652,015
DEVICE ADAPTED TO BE SECURED TO SEWING MACHINES FOR THE PRODUCTION OF ZIGZAG SEAMS
Georg Utz, Zurich, Switzerland
Application October 19, 1950, Serial No. 190,962
4 Claims. (Cl. 112—160)



1. In a sewing machine attachment for the production of zig-zag seams, a frame means for securing said frame to the presser bar of said machine, a forked lever pivotally connected to said frame, means for rotating said lever in response to reciprocatory movement of the needle bar of said machine, a pawl journalled on said forked lever, a control drum pivotally mounted in said frame, a ratchet wheel secured to said control drum for cooperation with said pawl, a spring urging said pawl towards said ratchet wheel, a presser foot, means pivotally and slidably connecting said presser foot to said frame, means on said control drum for imparting a transverse swinging movement to said presser foot upon rotation of said control drum, a slide bar reciprocally mounted in said frame adjacent the pawl, and means on said slide bar mounted to engage said pawl to move it out of engagement with said ratchet wheel against the action of said spring.

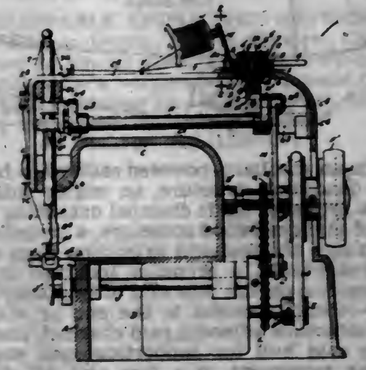
2,652,016
SEWING MACHINE PRESSER-FOOT
John P. Enes, Union, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application March 9, 1951, Serial No. 214,677
3 Claims. (Cl. 112—235)



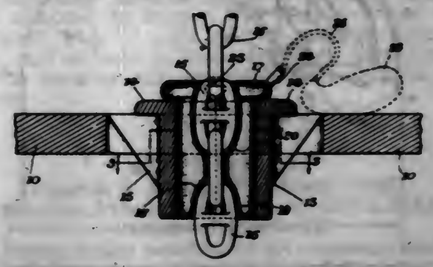
1. A sewing machine presser-foot having a shank, parallel ears depending from said shank, one of said ears having two parallel opposite faces, a sole plate having a work-engaging portion, said sole plate including an upstanding guide member having a bearing surface extending directly above said work-engaging portion and a support lug extending above and to one side of said work-engaging portion, said support portion having an elongated journal hole therein and a guide surface extending parallel to said bearing surface, said guide and bearing surfaces defining the sides of a slot, said ear being positioned between and in sliding engagement with said guide and bearing surfaces, a pivot pin secured in said parallel ears and passing through said journal hole and a second sole plate pivotally mounted on said pin and having a work-engaging portion extending beneath the entire width of said mounting lug of the first mentioned sole plate.

2,652,017
SEWING MACHINE THREAD CLAMPING MECHANISM
Richard K. Heimann, Jamaica, N. Y.
Application June 8, 1949, Serial No. 97,742
2 Claims. (Cl. 112—255)

1. In a chain stitch sewing machine comprising a frame including a work support and an elevated hollow arm, a rotary hook mounted in said frame below said support, a reciprocating needle bar mounted in said arm and carrying a needle at its lower end, mechanism for rotating said hook and reciprocating said needle bar in timed relation to form chain stitches and including a needle bar shaft mounted in said hollow arm to turn about an axis transverse to a plane including the needle bar axis; the combination controlling the passage of thread to said needle including a normally stationary thread clamping element external to and supported by said arm, a movable thread clamping element external to and supported by said arm and movable toward and away from the latter into and out of a position in which said thread is gripped between said elements and thereby held against longitudinal movement, a threaded connection between said normally stationary element and said arm for adjustment of that element toward and away from said arm, said movable element comprising a stem extending into said hollow arm, a bias spring within said arm and acting between the latter and said stem to bias said movable element for movement toward said arm and an actuating part within said hollow arm and pivotally connected thereto to oscillate about a horizontal axis laterally displaced from said stem, and arranged for connection to said mechanism for oscillation of said actuating part in time relation to the reciprocating movement of the needle bar, and including a portion arranged for oscillating movement toward, into and out of engagement with, and away from the end of said stem and thereby give said movable element a small movement away from said normally stationary element to permit longitudinal movement of the thread as the needle bar approaches the upper limit of its range of reciprocating movement.

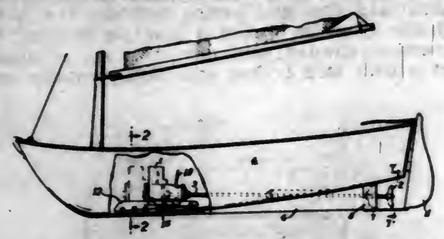


2,652,018
CHAIN PIPE COVER AND SEAL
Frederick J. Griffith, New York, N. Y.
Application June 12, 1952, Serial No. 293,221
5 Claims. (Cl. 114—199)



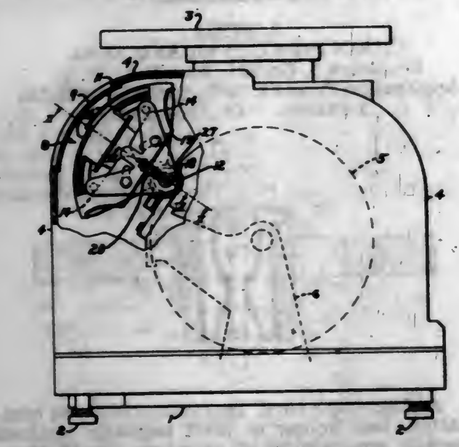
1. A chain pipe cover plug comprising, in combination, two hollow at least partially resilient generally semicylindrical members joined along one edge and having a single internal cavity, the plane wall of each said member having longitudinal grooves therein, said grooves forming a cross-shaped longitudinal bore conforming to an anchor chain shape when said two members are closed against each other, and means for creating and retaining pressure in said internal cavity to cause said members to press against the inner walls of a chain pipe and against the links of an anchor chain extending through said longitudinal bore.

2,652,019
SHIFTABLE ENGINE AND PROPELLER MOUNTING FOR AUXILIARY POWERED SAILBOATS
Earl O. Hurst, Douglaston, N. Y.
Application April 27, 1951, Serial No. 223,239
2 Claims. (Cl. 115—34)



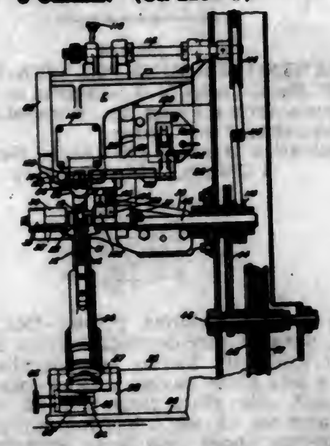
1. In an auxiliary-powered sailboat, a hull having a deadwood structure, an engine within said hull, a propeller shaft channel extending lengthwise of said deadwood structure, a propeller shaft within said channel and extending from said engine rearwardly, a propeller mounted in operative position on the rear end of said shaft, a propeller-receiving recess in the end of said deadwood structure adjacent said channel, and means within said hull for supporting said engine for shifting movement in a fore and aft direction, said engine when shifted rearward carrying with it said shaft and moving said propeller to operative position beyond the rear end of said deadwood, said engine when shifted forward carrying the propeller into said recess.

2,652,020
WEIGHING SCALE LENS FRAME MOUNTING
Norman E. Hart, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application September 5, 1951, Serial No. 245,113
7 Claims. (Cl. 116—129)



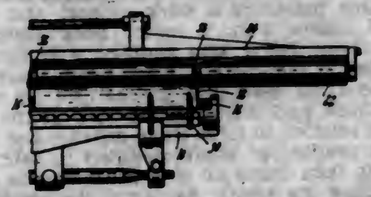
1. In a weighing scale having an indicia bearing chart that is rotated by weighing mechanism, in combination, a first frame for supporting the chart, an indicia viewing device, a second frame for supporting the viewing device, a reading line supported by one of said frames, a pair of trunnions on one of the frames each extending in the same direction and adapted to engage in a hole in an adjacent part of the other frame, said trunnions being aligned with the reading line and being directed such that both are engaged or disengaged upon lateral movement of the second frame, that frame not supporting the reading line also having a slot that accommodates the reading line during installation or removal of the second frame, and means for preventing endwise movement of the second frame tending to disengage the trunnions and the holes.

2,652,021
MACHINE FOR COATING BACK SEAMS OF SHOE UPPERS
Harry Phillips, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application April 26, 1951, Serial No. 223,986
5 Claims. (Cl. 118—3)



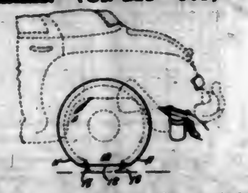
1. In a machine of the character described, a frame, a work supporting roll carried thereby having frusto conical side faces, said frame having a U-shaped bracket, frusto conical feed rolls mounted in the sides of said bracket and cooperating with an upper on said supporting roll to draw it tightly over said roll and to carry it forword, a nozzle on the frame directly above said supporting roll, and means for extruding a flowable material through said nozzle for application to the seam ridge of an upper on the supporting roll.

2,652,023
CEMENTING MACHINE FOR FLEXIBLE MATERIAL HAVING A WORKTABLE AND EXTENDED GUIDE ROLLS
Walter P. Osgood, Malden, Mass., assignor to Boston Machine Works Company, Lynn, Mass., a corporation of Massachusetts
Application April 17, 1951, Serial No. 221,454
3 Claims. (Cl. 118—250)



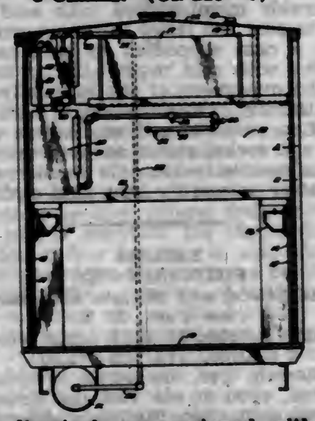
1. In a cementing machine which includes an open reservoir for liquid cement, a horizontal coating roll in said reservoir, and means for supporting and rotating said roll; two horizontal feed rolls above said coating roll and in operative position relative thereto, said feed rolls having substantially continuous extensions projecting a substantial distance beyond an end of said coating roll and independent of said coating roll to guide portions of work pieces which are not to be coated, means revolubly supporting said rolls, and a work table supported adjacent to said feed rolls.

2,652,022
PAINT SPRAY MASK FOR AUTO TIRES
Milton J. Kletsky, Albany, N. Y.
Application August 17, 1951, Serial No. 242,247
3 Claims. (Cl. 118—505)



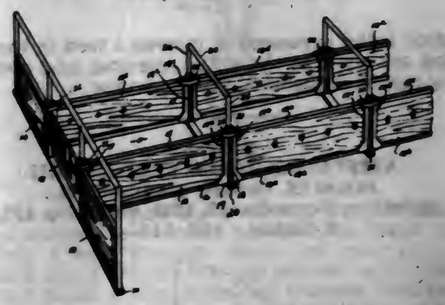
1. A mask adapted to cover the outside surface of a wheel, rim and pneumatic tire including the tread, on an automobile while the same is resting on a ground surface to protect the wheel, rim and tire from paint spray while the body of the automobile is being sprayed, comprising a disc-like sheet of material adapted to cover the outside surface of the wheel, rim and tire, and to conform to the circular formation of said tire and wheel except for a relatively short straight edge portion adjacent said ground surface when said mask is in adjusted position on a tire equipped wheel; an elongated strip of material to cover the tread surface of the tire and secured along one side edge thereof to the circular peripheral edge portion of said disc-like sheet and terminating adjacent the ends of said straight edge portion; an elastic member, stretchable along its longitudinal axis, secured along the other side edge of said elongated strip, and loops of similarly stretchable material connecting the ends of said other side edge and said straight edge, and adapted to extend transversely across the tread surface of said tire on opposite sides thereof adjacent the point where the tire contacts said ground surface.

2,652,024
SPRAYING MECHANISM FOR LIVESTOCK CARS
James M. Coyner, Madison, Wis.
Application December 26, 1951, Serial No. 263,295
3 Claims. (Cl. 119—7)



1. In a livestock car equipped with a compressed air reservoir, a water tank supported in the upper portion of said car, a spray tank supported therebelow and connected to the water tank by a valve-controlled conduit, a compressed air tank communicating with said car reservoir, a valve-controlled conduit connecting said compressed air tank and said water spray tank, and a spray conduit leading from said water spray tank across a portion of said car and equipped with spray orifices therein.

2,652,025
DEMOUNTABLE ANIMAL PEN ASSEMBLY
William George Beatty, Fergus, Ontario, Canada, assignor to Beatty Bros. Limited, Fergus, Ontario, Canada, a corporation of Canada
Application December 20, 1950, Serial No. 201,749
In Canada September 7, 1950
13 Claims. (Cl. 119—37)

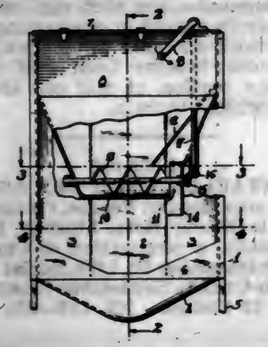


1. A portable animal pen comprising a plurality of panel sections, a vertically disposed upright positioned between the contiguous ends of each pair of adjacent panel sections, a sill at the lower end of and connected to each upright supporting said upright against displacement by the movement of animals tied thereto, a plate carried by said sill and projecting outwardly from opposite sides of the base of the upright and at right angles to the sill, said plate forming a support for the contiguous ends of each pair of adjacent panel sections, a pin projecting upwardly from the plate on opposite sides of the upright, a hole in the lower edge of each panel adjacent to said upright for receiving said pin, a detachable member carried by each upright and adapted to engage the upper edge of the adjacent ends of each pair of panel sections to hold said sections in fixed position and releasable means securing said member firmly in fixed position.

2,652,026
DAIRY FEEDER
Charles E. Iddings, Petaluma, Calif.
Application February 23, 1952, Serial No. 273,044
1 Claim. (Cl. 119—56)

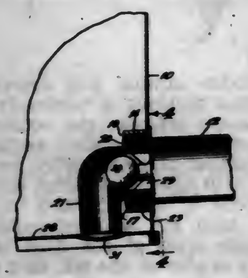
A dairy feeder comprising an enclosure having lateral and rear sides and a front opening adapted to permit access to the interior of the enclosure by a dairy cow when feeding, an open feed trough positioned in the lower area of the enclosure within reach of the dairy cow, a feed supply bin supported in the upper area of the enclosure within the lateral and rear sides of the said enclosure and rearwardly of the front opening, the said bin having a semi-circular bottom side positioned above the feed trough and downwardly converging side walls extending from the lateral sides of the enclosure to the said bottom side and the said bin having a front side extending downwardly and rearwardly, and the said bin lying entirely within the enclosure, an outlet

opening in one end of the semi-circular bottom side, a screw conveyor rotatably mounted within the semi-circular bottom of the bin, the said con-



veyor being arranged to intercept feed in the bin and convey it to the outlet opening, and operating means connected to the conveyor.

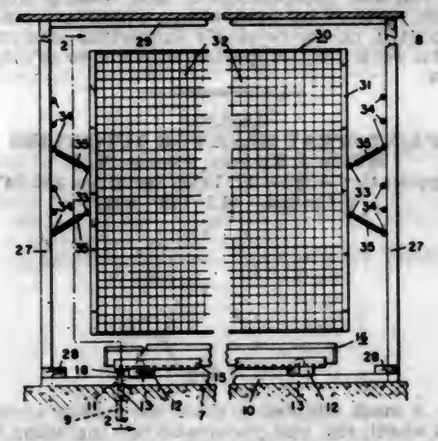
2,652,027
NIPPLE-EQUIPPED FEEDER PAIL
James M. Coyner, Madison, Wis.
Application November 28, 1950, Serial No. 197,980
6 Claims. (Cl. 119—71)



1. In a feeder pail structure, a pail having an opening in a side wall thereof and adjacent its bottom wall, a ferrule secured to said pail about said opening and having an inwardly-extending portion providing a cylindrical tube, a resilient nipple extending through said ferrule and equipped at its inner end with an enlarged and annular bead, and a drain tube equipped with a laterally-extending annular bead and received within the end of said nipple so that the nipple bead is on the inner side of the bead on said drain tube, the nipple bead having a greater outer diameter than the inner diameter of said cylindrical tube of the ferrule and a smaller inner diameter than the outer diameter of said drain tube so that when said nipple and drain tube are received within the cylindrical tube of said ferrule, the nipple bead is compressed between the drain tube and cylindrical tube of the ferrule and provides a liquid tight seal therebetween.

2,652,028
POULTRY WATERING DEVICE
Leon D. Banks, Alpine, N. Y.
Application September 21, 1949, Serial No. 117,041
9 Claims. (Cl. 119—74)

1. A poultry watering device having a platform, a pair of spaced crossbars, a drain pan removably held on the crossbars, a perch on the crossbars on each side of the pan and parallel thereto, and a narrow trough removably mounted in the pan in a fixed horizontal position, said trough having deflecting flanges sloping down-



wardly and outwardly toward the sides of the pan.

2,652,029
REFILLABLE ERASER DEVICE
Earl H. Metcalf, Ridgefield Park, N. J.
Application August 29, 1952, Serial No. 307,044
2 Claims. (Cl. 120—36)



1. An erasing device comprising an elongated casing rectangular in cross-section, a long and relatively thin eraser slidable within said casing and projecting from one end thereof, a slide-member frictionally engaging and slidable in said casing and provided with means cooperating with an end of said eraser and also provided with a lug adapted to cooperate with the ratchet-bar hereinafter mentioned, a manually-operable member slidable in said casing and projecting from the other end thereof, a ratchet-bar pivotally mounted on said manually-operable member and cooperating with said lug on said slide-member, a spring cooperating with said manually-operable member and with said ratchet-bar and biasing the latter into engagement with said lug, a cam supported by said casing and cooperating with said ratchet-bar at the end of the inward movement of the manually-operable member thereby pivotally moving said ratchet-bar out of engagement with said lug on said slide-member, and spring means cooperating with said casing and manually-operable member and biasing the latter outwardly from said casing.

2,652,030
FOUNTAIN PEN
Mona Stiefel and Miriam Kallchman, New York, N. Y.
Application October 30, 1952, Serial No. 317,666
7 Claims. (Cl. 120—42.03)

1. A fountain pen, including a hollow elongated barrel, open at one end and closed at the other, a pen holder longitudinally slidable within said barrel and through the open end thereof, a

nib and an ink sack secured to and supoprted by said pen holder, a channel extending along one side, across the closed end and along the other side of said barrel, a ribbon of springy material



slidable along said channel, and a closure member for the open end of said barrel, said closure member being secured to one end of said ribbon and said pen holder being secured to the other.

2,652,031
BALL-POINT PEN
Maurice J. Reed, Middletown Township, Monmouth County, N. J., assignor of three-eighths to Anne E. Reed, and two-eighths to Thomas J. Eurell II, both of Middletown Township, Monmouth County, N. J.
Application May 11, 1948, Serial No. 26,460
5 Claims. (Cl. 120—42.4)



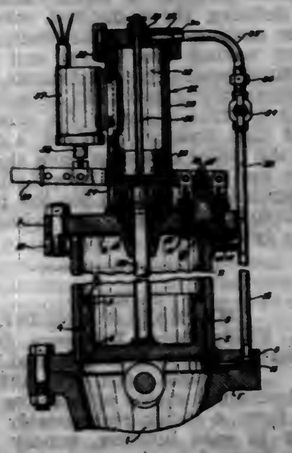
1. A writing instrument comprising a generally spherical writing fluid applicator, a hollow tip portion mounting said applicator for rotation with a portion of its surface in position to bear on a writing surface and a portion of its surface in position to receive writing fluid from within said tip, and a reservoir for supplying writing fluid to the hollow interior of said tip portion, the improvement that comprises a partition subdividing the hollow interior of said tip portion into at least two writing fluid supply conduits terminating adjacent but spaced from the ball whereby, in the writing position of the pen, the column of ink between the reservoir and the tip is subdivided into separate columns immediately above the ball whereby the expulsion of air bubbles from the tip is facilitated.

2,652,032
REFILL UNIT FOR BALL-POINT PENS
Sylvester G. Lipic, Sappington, Mo., assignor to Ritepoint Co., St. Louis, Mo., a corporation of Missouri
Application October 12, 1950, Serial No. 189,725
12 Claims. (Cl. 120—42.4)



1. In a refill unit for a writing instrument, a head adapted to receive a writing implement and having a bore through which ink may be fed to such tip, a flexible ink bag secured to the rear of said head, a thin extension element having a a pair of enlarged opposed ends mounted within said bag and having one of its ends in engagement with said head, and said element having the other of its ends abutting against the rear end of said bag to keep the latter extended lengthwise but permit it to collapse crosswise.

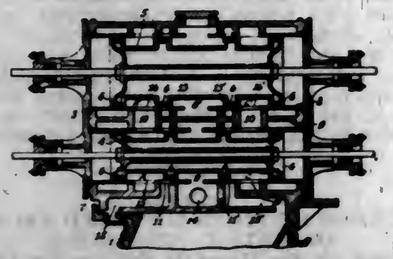
2,652,033
PRESSURE FLUID ACTUATED VALVE OPERATING MECHANISM
Homer J. Shafer, Mansfield, Ohio, assignor to The Shafer Valve Co., Mansfield, Ohio, a corporation of Ohio
Application August 25, 1947, Serial No. 770,430
3 Claims. (Cl. 121—38)



1. A pressure fluid actuated operator for a valve comprising a first cylinder; a first piston in said cylinder, one side of which is constantly subjected to pressure; a head for said cylinder; a second cyl-

inder mounted on said head; a second piston in said second cylinder; a piston rod for the piston in said first cylinder that extends through said head and is engageable with the second piston in said second cylinder; a head for said second cylinder; a rod for the second piston in said second cylinder extending through the head therefor for manually moving the second piston and for indicating the position of said first piston; a pressure supply pipe; a valve in the first mentioned cylinder head for applying pressure to the other side of the first piston in said first mentioned cylinder and for controlling the release of pressure from the other side of the first piston in said first cylinder; and a three way valve in said supply pipe for controlling the application and release of pressure from one side of the second piston in said second cylinder, the second piston moving the first piston in said first cylinder when pressure is substantially equalized on both sides of the first piston in said first cylinder.

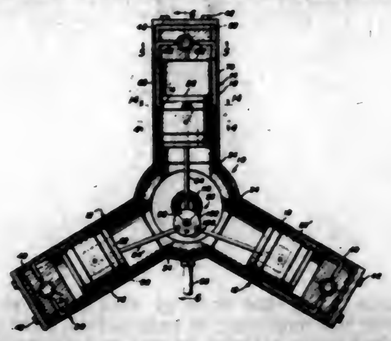
2,652,034
COMPOUND STEAM LOCOMOTIVE
Georges Baillet, deceased, late of Embourg, near Liege, Belgium, by Helene Baillet, Liege, and Germaine Baillet, Embourg, near Liege, Belgium, sole heirs, and Ernest Baillet, Liege, Belgium
Application May 25, 1950, Serial No. 164,132
In Belgium June 4, 1949
3 Claims. (Cl. 121—102)



1. In a compound steam locomotive, two cylinder groups, each comprising a high pressure cylinder and a low pressure cylinder, each group of cylinders being served by cylindrical distributing valves forming a block, said distributing valves defining three distinct compartments, a partition uniting the two distributing valves, said partition having two lateral end passages and two distinct central compartments, forming with the compartments provided in said distributing valves a central chamber for admitting steam into the high pressure cylinder, a central chamber for the outlet of steam from the low pressure cylinder, and two distinct lateral chambers defining independent receivers for the passage of the steam from the high pressure cylinder to the low pressure cylinder.

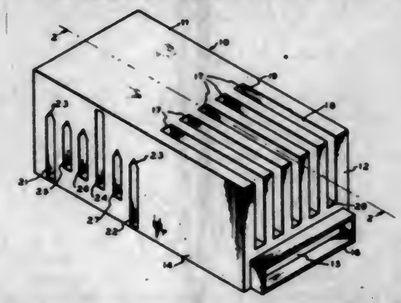
2,652,035
HYDRAULIC ENGINE
Philip Bayer, Delaware, Ohio
Application March 6, 1951, Serial No. 214,067
9 Claims. (Cl. 121—120)

1. A hydraulic engine comprising a housing of tubular form, a piston reciprocably disposed in a chamber in said housing, supply and exhaust passages formed in the wall of said housing, a valve casing secured to the outer end of said housing and having a transversely extending bore, valve means in said bore, first and second passages extending transversely of said bore and intercommunicating said supply and exhaust passages with the chamber above said piston, said valve means being reciprocable for effecting selective communication through said first and second passages, and means for effecting reciprocation of said valve means, said last named means including third and fourth passages interconnecting the ends of said bore and intermediate portions of the chamber in said housing, said supply and exhaust passages being disposed on op-



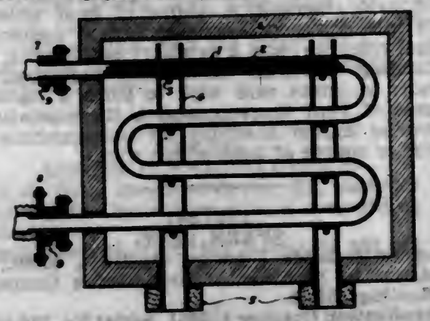
posite sides of each of said third and fourth passages and having openings communicating with said chamber at said intermediate portions thereof, and groove means formed in the wall of said piston for selectively intercommunicating said supply and exhaust with said fourth passage whereby reciprocation of said valve means is effected, thereby alternately supplying and exhausting pressure to said chamber above the piston.

2,652,036
PLATE TYPE UNDULATING FLUE BOILER
James A. Grace, Hazleton, Pa.
Application January 16, 1951, Serial No. 206,215
2 Claims. (Cl. 122—135)



1. A boiler unit for use in a domestic heating apparatus comprising an open-bottomed, box-like enclosure having a top wall adapted to be situated horizontally and further having a front, a back, and two side walls adapted to be situated vertically, said top and side walls being of generally elongated rectangular shape with the long dimensions adapted to extend horizontally, the edges of the top and front walls where these walls intersect being slotted, the sides of the slots in the top wall extending parallel to the side edges for about half the length of the unit and being equally spaced and equally wide, the slots in the front wall matching those of the side wall and extending parallel to the vertical sides of the unit for most of its height, recess walls extending inwardly from the edges of the slots perpendicularly to the planes of the top and front walls, said recess walls forming thin, broad water recesses which extend longitudinally of the unit from the front wall, the side walls in the rearward portion of the unit being provided with a plurality of generally vertical, elongated rectangular slots which are spaced from one another, each slot in one side wall having a complementary slot in the other side wall, the edges of said complementary side wall slots being joined by walls which are perpendicular to the side walls and which form a series of thin, broad water passages extending transversely of the unit, the said water passages being equally spaced longitudinally of the back portion of the unit and being equally wide, the foremost and the rearwardmost of said water passages extending upwardly from the bottom edges of the side walls of the unit to positions spaced from the top wall, at least one intermediate water passage extending downwardly from the top wall to a position spaced from the bottom edges of the side walls, the water passages between the forwardmost, the rearwardmost, and the intermediate water passages extending upwardly only as high as the said forwardmost and rearwardmost water passages and extending downwardly only as far as the said intermediate water passage.

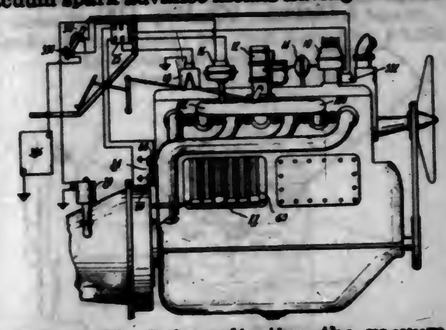
2,652,037
HEAT EXCHANGE APPARATUS
Ernest D. Lewis and Richard M. Luckring, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application September 3, 1947, Serial No. 771,986
3 Claims. (Cl. 122—510)



1. A support element enabling horizontal movement of a fused silica conduit employed in a furnace for heating corrosive fluids to elevated temperatures comprising in combination an elongated roller-bearing member mounted for restricted movement in a tubular support column, and a load distributing plate member disposed within said column and carried by said bearing member and upon which plate member said fused silica conduit rests.

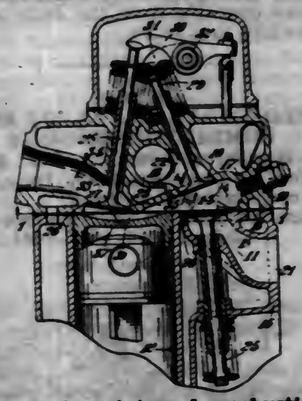
2,652,038
MULTIPLE CYLINDER INTERNAL-COMBUSTION ENGINE
Albert H. Winkler, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application May 20, 1947, Serial No. 751,282
10 Claims. (Cl. 123—53)

1. In a multiple cylinder internal combustion engine in which a portion of the cylinders are normal cylinders and a portion power cylinders: an intake manifold for said normal cylinders, an intake manifold for said power cylinders, separate carburetor elements for each manifold including a main discharge jet, a power enrichment jet and an accelerating pump, said carburetor elements of the power cylinders adapted to remain inoperative while said cylinders are inoperative, a vacuum spark advance means having a valve con-



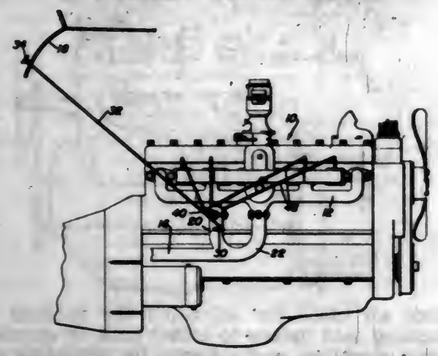
trolled air bleed for adjusting the vacuum for actuating said means to either split or standard engine operation, and a means for actuating said valve and regulating the accelerating pump for the power cylinders.

2,652,039
SUPPLY SYSTEM FOR COMBUSTIBLE MIXTURE FOR INTERNAL-COMBUSTION ENGINES
Henry Weslake, St. Leonards-on-Sea, England
Application February 14, 1949, Serial No. 76,376
In Great Britain February 18, 1948
15 Claims. (Cl. 123—75)



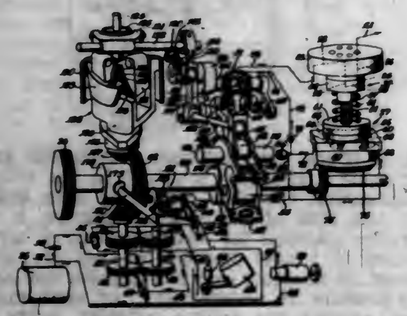
15. A spark fired internal combustion engine comprising a cylinder, a piston in the cylinder, a combustion chamber extending over and beyond one side of the engine cylinder, a valve controlled passage for weak mixture or air terminating in a port disposed in that part of the combustion chamber over the cylinder and adapted to produce an ordered swirl of weak mixture or air around the engine cylinder, valve controlled passages for a rich mixture and for exhaust gases terminating in ports disposed in that part of the combustion chamber beyond one side of the engine cylinder, which rich mixture passage and the shape of the latter part of the combustion chamber are adapted to produce an ordered swirl of rich mixture in that part of the combustion chamber, and a spark plug socket in that part, and valve gear arranged to open the exhaust valve and to open the air or weak mixture valve at the conventional time and to open the rich mixture valve after the closing of the exhaust valve and to close it before or at the same time as the air valve.

2,652,040
EXHAUST FEED SUPPLY FOR ENGINES
Harold J. Tritt, Cheyenne, Wyo., assignor of fifty per cent to Marian A. Tritt, Cheyenne, Wyo.
Application June 20, 1951, Serial No. 232,614
5 Claims. (Cl. 123—119)



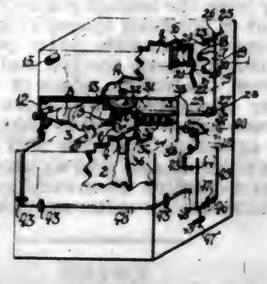
1. An exhaust gas feeder for internal combustion engines comprising a vertical exhaust gas removal conduit connected to the exhaust pipe of an internal combustion engine at a place remote from the exhaust manifold, a gas distributor cap for said removal conduit on the upper end thereof, exhaust tubes connected to said distributor cap and in communication with the intake manifold at spaced positions thereon, which positions are each adjacent one of the connections of the intake manifold with a cylinder inlet port of the engine, a valve in said removal conduit, means operable from the dash of a vehicle for controlling said valve.

2,652,041
FUEL FEEDING APPARATUS FOR INTERNAL-COMBUSTION ENGINES
Hans L. Knudsen, Columbus, Ind., assignor to Cummins Engine Company, Inc., Columbus, Ind., a corporation of Indiana
Application April 8, 1948, Serial No. 19,853
4 Claims. (Cl. 123—140)



1. A distributor for a fuel feeding apparatus for an internal combustion engine, said distributor comprising a pair of rotary devices, one of said devices being adapted to be connected to a fuel metering pump and to the cylinders of the engine for distributing to the respective cylinders the fuel delivered by said pump, the other of said devices comprising a stationary disc and a rotatably driven disc in face-to-face engagement, said stationary disc having a pair of passages respectively adapted to be connected to a source of fuel under pressure and to said pump and a plurality of openings extending from said passages to its engaged face, said driven disc having an annular passage and a plurality of openings extending therefrom to its engaged face and adapted to successively and intermittently register with the openings in the stationary disc to intermittently connect said source with said pump.

2,652,042
AUTOMATIC HEATER FOR INTERNAL-COMBUSTION ENGINES
John B. Kent, Hoey, Saskatchewan, and Clarence C. Zimmerman, Regina, Saskatchewan, Canada
Application July 17, 1950, Serial No. 174,218
5 Claims. (Cl. 123—142.5)



1. A heater for the coolant of automotive internal combustion engines and the like, comprising in combination, a coolant reservoir adapted to be connected with the coolant system of an associated engine, an outlet tube communicating with said reservoir, an inlet tube also communicating with said reservoir, a source of heat adjacent said inlet tube, said source of heat comprising a fuel reservoir, and a capillary action wick unit extending upwardly from said fuel reservoir, means to ignite said wick to form a flame or source of heat thereon, and a thermostatically operated snuffer assembly for extinguishing the flame or source of heat of the wick.

2,652,043
SPARK PLUG
Stephen Ironside Johnson, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich.
Application October 1, 1951, Serial No. 249,084
5 Claims. (Cl. 123—169)



2. A spark plug shell and ground electrode assembly comprising a tubular insulator shell having angularly spaced slots extending axially from its inner end, and a bendable ground electrode disposed in each of said slots against a side wall thereof and welded thereto and to the bottoms of the slots, the electrodes being within and guarded by the shell, their inner ends being free for adjustment, the slots being of a width substantially exceeding the thickness of the electrodes and open at one side thereof to receive a tool facilitating the adjustment of the electrodes within the shell.

2,652,044
SPARK PLUG
Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich.
Application October 1, 1951, Serial No. 249,133
2 Claims. (Cl. 123—169)



2. A spark plug insulator shell and ground electrode assembly comprising a tubular metallic shell having a pair of adjacent but angularly spaced slots extending axially from its inner edge, the slots of the pair being on opposite sides of a plane through the axial center of the shell, there being a third slot in the opposite side of the shell extending axially from its inner edge in the said plane of the axial center of the shell, and ground electrodes disposed in adjacent slots and fixedly secured therein in spaced parallel relation and with their inner ends within the shell and in laterally spaced side overlapping relation to the axial center of the shell and laterally spaced therefrom, said ground electrodes being within the shell and guarded thereby and bendably adjustable toward or from the axial center of the shell, said third slot being open for fulcrumingly engaging a tool therein for engagement with the inner end of either of the said ground electrodes facilitating the adjustment thereof.

2,652,045
ENGINE CRANKING DEVICE
Mark H. Cole, Downers Grove, Ill., assignor to The Safety Crank Company, a corporation of Illinois
Application May 20, 1952, Serial No. 288,865
1 Claim. (Cl. 123—185)



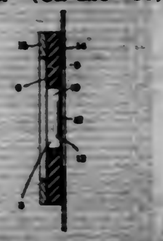
A device for cranking engines, comprising, a stationary housing, a drum member journaled for rotation in said housing and having a cylindrical peripheral surface and an axial passage therethrough, a shaft member having a shank slidably fitted in said passage but keyed therein to rotate with said drum member, said shaft member having an axial bore extending therethrough, a plurality of locking rollers in said housing engaging said peripheral surface of said drum member adapted to permit forward rotation of said drum member but to lock the same against reverse rotation, a coupling member releasably connectable to the engine shaft, a bolt traversing said bore to connect said coupling member to said shaft member, and a resilient collar interposed between said coupling and shaft members.

2,652,046
POWER INDICATING APPARATUS FOR INTERNAL COMBUSTION ENGINES OR MOTORS PROVIDED WITH GOVERNOR
Alberto Lagardère, Barcelona, Spain, assignor to Juan Baurier Tivollier, Barcelona, Spain
Application January 31, 1949, Serial No. 73,855
In Spain November 8, 1948
4 Claims. (Cl. 123—198)



1. Power-indicating apparatus for internal combustion engines having rectilinearly movable means actuated by a governor to control the amount of fuel supplied to the engine, comprising a casing with a dial, a needle coacting with said dial, a plunger centrally entering said casing, said plunger being axially slidably mounted in said casing and substantially parallel to said rectilinearly movable means, means supporting said plunger, said supporting means connecting said plunger to said rectilinearly movable means for direct corresponding movement therewith, so that the position of the plunger is at any moment directly related to the amount of fuel supplied to the engine, a toothed gearing connected to said needle, and a rod-and-lever mechanism for transmitting movement from said plunger to said gearing in order to move said needle in an amplified relation with the movements of the fuel supply means.

2,652,047
COMBINED SEALING MEDIUM AND CUFF FOR AN ARTIFICIAL RESPIRATOR HOUSING OPENING
Lucille D. Luck, Lima, Pa., and Gertrude K. Norby, Minneapolis, Minn., assignors to Strato Equipment Company, Minneapolis, Minn., a corporation of Minnesota
Application May 26, 1950, Serial No. 164,424
2 Claims. (Cl. 128—30)



1. A combined sealing medium and cuff for use in conjunction with an opening in the housing of an artificial respirator comprising a readily compressure plate member adapted to be secured to such a housing to circumvent such opening and having an aperture extending therethrough and communicating with such housing opening when

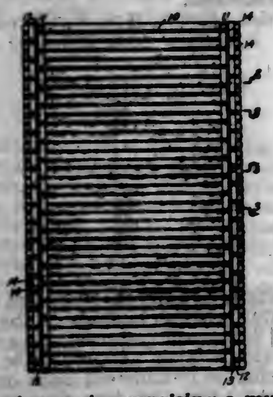
so secured, and a relatively thin but durable elastic sheet fixedly secured directly to said plate member and extending across said aperture of said plate member in a plane parallel and immediately adjacent to the plane of said plate member, said sheet being continuous except for having an opening therein adapted to snugly receive therethrough an adult human's arm whereby an effective seal may be maintained at all times about the arm of such a human when the same is inserted through such opening for the performance of necessary attending operations, said sheet opening communicating with said aperture of said plate member and with such housing opening when said plate member is so secured.

2,652,048
EAR TREATING APPARATUS
Carl F. Joers, Los Angeles, Calif.
Application June 9, 1952, Serial No. 292,452
6 Claims. (Cl. 128—39)



1. An ear treating apparatus comprising: a pair of electric vibrating units of the dynamic speaker type connected in parallel with an alternating electric circuit, a pair of applicators including ear pieces and flexible tubes connecting the ear pieces with enclosed air spaces adjacent the diaphragms of said vibrating units whereby to alternately compress air bodies in said tubes and to relieve pressure therein as said diaphragms are alternately flexed in opposite directions, and means for separately regulating the operation of said vibrating units to vary the effect on the ears of a patient.

2,652,049
EXCESS WEIGHT REDUCING MAT
James W. Zeigler, Oakland, Calif.
Application April 17, 1952, Serial No. 282,746
4 Claims. (Cl. 128—58)



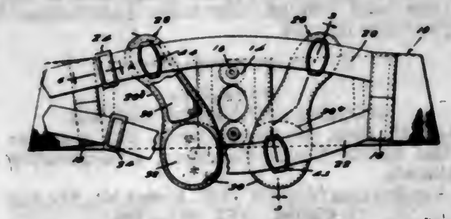
1. A reducing mat comprising a multiplicity of relatively cylindrical elongated members connected in alternate pairs to form a continuous mat with the connections comprising elastic bands individually connecting each pair of rolling and spreading action.

2,652,050
SURGICAL ARM SUPPORT
Charles H. Schoeller, San Diego, Calif.
Application August 13, 1951, Serial No. 241,537
4 Claims. (Cl. 128—94)



1. A surgical arm support, comprising a neck band, connector plates detachably and adjustably secured to the ends of said band, a human forearm carrier, and means detachably suspending said carrier from said connector plates.

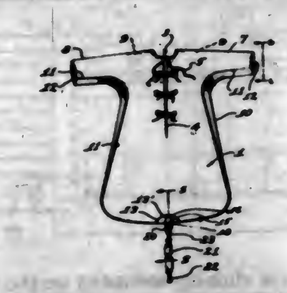
2,652,051
HERNIA TRUSS
Guy A. Hoover, Fort Wayne, Ind.
Application April 11, 1952, Serial No. 281,846
7 Claims. (Cl. 128—100)



4. A hernia support of the character stated comprising a body encircling member including spaced straps, a pair of elongate pad units disposed across the two straps, and a pair of buckles pivotally coupled to each unit and each having a strap slidably engaged therein, the buckles being turnable on an axis perpendicular to the straps.

2,652,052
INFANT'S SLEEPING GARMENT
Dorothea J. Smith, Burbank, Calif.
Application November 8, 1949, Serial No. 126,092
1 Claim. (Cl. 128—134)

A sleeved sleeping garment for infants comprising a strip of fabric folded on itself to form front and back portions of identical plan outline and having a neck opening intersecting said fold and a closure means for said opening adjacent said fold; the opposed edges of said portions being interconnected by the side edges of an interposed strip of fabric of substantially uniform width extending from the outer end of one sleeve around the lower ends of said portion and terminating at the outer end of the other sleeve with resultant closure of the sleeves and the sides and bottom of the garment, a strap looped over the bottom end of the garment and having its opposite ends connected to the front and back portions of the garment by a stitching passing through both ends of said strap and through both



front and back portions of the garment, and a ring on said strap adapted to facilitate the detachable connection of the bottom end of the garment to a bed structure.

2,652,053
SHORTS
Ernest G. Dana, New York, N. Y.
Application June 6, 1950, Serial No. 166,316
5 Claims. (Cl. 128—159)



1. A pair of shorts for men, having a front panel of woven material and a rear panel of knitted material said woven panel being formed in the shape of a sack whereby the woven material supports the organs and is substantially unstretched by wearing, and the knitted material is capable of conforming to the shape of the wearer.

2,652,054
INTRAVENOUS SOLUTION FLASK PROVIDED WITH A SNAP-UP BAIL
Clifford B. Bishop, Oakland, Calif., assignor to Cutter Laboratories, Berkeley, Calif., a corporation of California
Application October 6, 1951, Serial No. 250,174
2 Claims. (Cl. 128—214)



1. In combination: a flask and a spring wire bail, said flask having a substantially cylindrical lower end formed with diametrically opposed inclined portions and said inclined portions being formed with diametrically opposed sockets for the reception of the ends of said bail; means provided on the ends of said bail for constraining said ends always to remain centered in said sockets, said means having portions arranged to be maintained resiliently in engagement with the peripheral edges of said sockets.

2,652,055
COLOSTOMY DEVICE
Charlotte M. Baron, Toledo, Ohio
Application May 1, 1950, Serial No. 159,343
4 Claims. (Cl. 128—283)



1. A colostomy device for a body opening comprising: a substantially flat plate for covering said opening, a rib around said plate for sealing engagement with the skin surrounding said opening, a flushing opening into said plate, and a discharge opening in said plate.

2,652,056
CATAMENIAL DEVICE
Willard V. Lay, Denver, Colo., assignor to Earle C. Haas, Denver, Colo.
Application September 8, 1952, Serial No. 308,355
8 Claims. (Cl. 128—285)

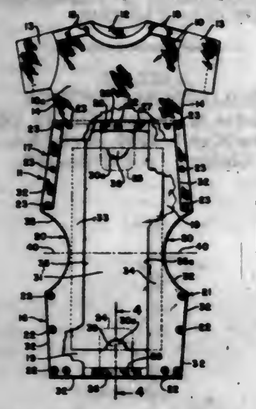


1. A catamenial device comprising: a highly compressed, cylindrical core of cellulose material and tying means extending longitudinally of the exterior surface of said cylindrical core and attached to the fibers of one side of said compressed core throughout the length of the latter to resist expansion of that side of the core.

2,652,057
INFANT'S GARMENT
Philip G. Siegel, Flushing, and Martin Stein, New York, N. Y., assignors to Perfect Knit Togs, Inc., New York, N. Y., a corporation of New York
Application November 28, 1952, Serial No. 323,100
1 Claim. (Cl. 128—287)

An infant's garment comprising pants constituted of a fabric having longitudinal edges and being folded on a transverse line with portions of said longitudinal edges releasably attached to each other, means for releasably securing a di-

aper to said fabric comprising tabs of flexible material secured to opposite ends of said fabric, each of said tabs having a serrated die-cut there-



through to form a flap whereby an edge of said diaper may be clamped into each of said tabs by means of the flap associated therewith.

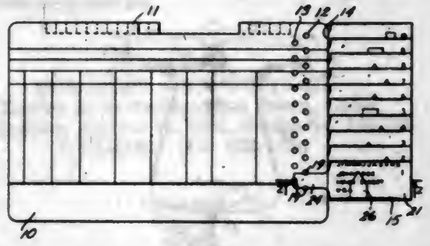
2,652,053
SANITARY BELT
Vera W. Carpenter, Grand Junction, Colo.
Application December 7, 1951, Serial No. 260,541
1 Claim. (Cl. 128—291)



A sanitary belt comprising an elastic waist encircling loop, a back panel having a straight transverse upper end secured at its inner face to the loop so that the panel depends therefrom, said panel having a lower narrow section, means for affixing one end of a napkin to the end, a front panel having a transverse straight upper end secured to the loop at a point diametrically opposed to the front panel and depending from the loop, said front panel having an elongated narrow lower section which is shorter than the lower section of the back panel and means for securing the other end of a napkin to the end of the lower section of the front panel, each of said panels having obtuse angled points on their opposing side edges, a pair of straps connecting the panels below the loop, said straps having their ends secured to the angled points on the panels on the inner faces of the panels.

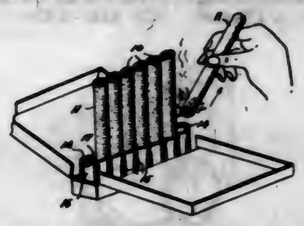
2,652,059
INDEX CARD AND REMOVABLE INDEX TAB
Frank Lloyd Wassell, Westport, Conn., assignor to Georgene Parkin Wassell, Westport, Conn.
Application November 15, 1950, Serial No. 195,835
6 Claims. (Cl. 129—16.8)

1. An index card having adjacent one edge thereof a plurality of spaced apertures adapted to receive means for holding index tabs removably therein, an index tab for the card formed with an arm having spaced extensions adapted to be received in any two apertures of the card.



and a face plate slidably mounted on the tab and having an extension thereon adapted to engage and lock the spaced extensions of the tab to the card.

2,652,060
COMBINED CIGARETTE AND IGNITING MEANS
Cheng Shie, New York, N. Y.
Application October 12, 1950, Serial No. 189,983
1 Claim. (Cl. 131—7)

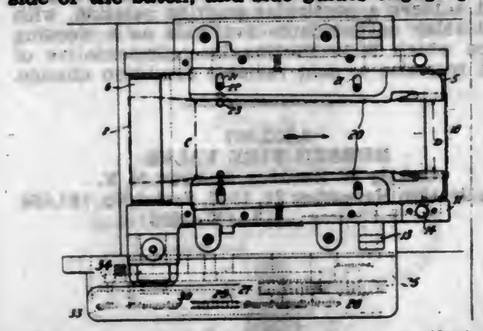


A device of the character described comprising, in combination, a package, a plurality of cigarettes each having a paper cover and a filler, said covers each being treated with a combustible substance at its inner end, a plurality of frictionally ignitable pieces of material affixed to the outer side of each of the covers in spaced relation and adjacent the inner end thereof, a plurality of sockets affixed to and mounted within said package and each adapted to receive the inner end of one of said cigarettes, and means in each of said sockets for igniting the pieces of material affixed to its associated cigarette when the same is withdrawn from said socket, said sockets all being formed of a single strip of material having a fold between the ends thereof to form the sides of said sockets.

2,652,061
COMPRESSOR FOR CIGARETTES
Donald Richard Patrick Jackson, Deptford, London, England, assignor to Molins Machine Company Limited, London, England, a British company
Application August 27, 1951, Serial No. 242,878
In Great Britain September 8, 1950
1 Claim. (Cl. 131—107)

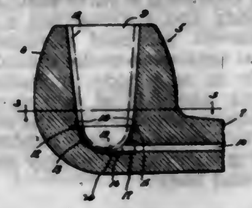
A cigarette compressor comprising a pair of endless bands between which a batch of cigarettes is moved in engagement with said bands, guiding devices for the bands whereby the cross-section of the space between the bands contracts from the inlet to the outlet of the device, said guiding devices comprising plates contacting with the bands and constraining them to assume the desired shape, whereby the desired cross-section of the space between the bands

is determined, said bands each engaging a broad side of the batch, and side guides engaging the



edges of the bands to turn them, so that the batch is embraced on all sides by the bands.

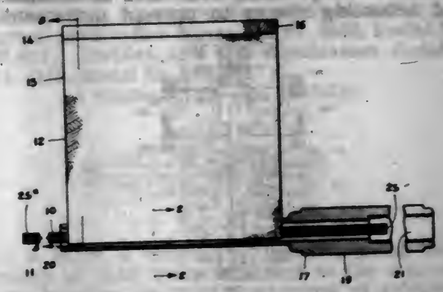
2,652,062
TOBACCO SMOKING PIPE
Atwood M. Timpó, Los Angeles, Calif.
Application February 23, 1950, Serial No. 145,713
2 Claims. (Cl. 131—194)



1. A tobacco pipe comprising a bowl and stem of wood so constituted that vapors may be absorbed thereby, said bowl having a side wall and a cavity, the bottom of the cavity having an opening at the base thereof, said stem having a bore in direct communication with the opening, a substantially semi-spherical cup of high heat retaining material positioned in said cavity and having a shape conforming substantially to the contour of the wall surface of the bottom of the bowl, said cup having a tubular stem extending outwardly from and coextensive and substantially in alignment with the bottom of the cup and bore of the bowl stem and extending outwardly from the base thereof and positioned in the bore of the stem and extending thereinto, and the outermost edge of said cup stem lying within a vertical plane which intersects the side wall of said bowl whereby the major portion of the wall surface of the bowl stem may be exposed to the passage of smoke generated in the cup and whereby the cup may absorb substantially entirely the heat generated in the cavity of the bowl as said heat is dissipated towards said bore.

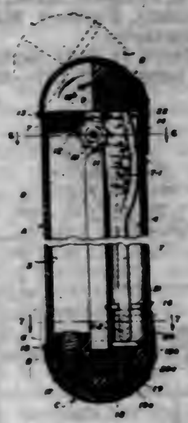
2,652,063
HAIR CURLER AND KEY
Richard Seyffarth, Long Island City, N. Y.
Application June 14, 1950, Serial No. 167,953
3 Claims. (Cl. 132—43)

1. A hair-curling apparatus, comprising a flexible rod, a thin strip of paper, folded to form a pair of webs, attached to said rod at the junction between the webs, the ends of the rod projecting beyond the ends of the webs, said webs being angularly separated to receive strands of hair between them, and a key comprising a substantially tubular shank, a handle formed integral with the shank, the shank having a circular opening formed therethrough to receive the flexible rod, the shank having a slot cut therethrough to receive the webs, said shank slidably supporting a portion of the webs, said key being manually



rotated to snugly wrap the webs around the shank of the key, the ends of the rod being bent over the end of the webs to retain the webs and hair in the curled position, after the curler is removed from the key.

2,652,064
TOOTHBRUSH CASE
Alvin Lee Shook, Dallas, Tex.
Application April 24, 1952, Serial No. 284,019
6 Claims. (Cl. 132—84)

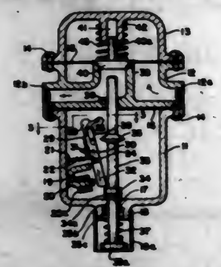


1. In a toothbrush case, the combination of a body having two chambers for containing the toothbrush and a mass of dentifrice, respectively, and having a passage connecting said chambers; rotatable means in said passage adapted to supply a quantity of the dentifrice to the tips of the bristles of the toothbrush engaging said means; and releasable, resilient means in the toothbrush chamber adapted to eject the toothbrush from its chamber sufficiently to cause its bristles to rotate said supplying means, said rotation actuating said supplying means.

2,652,065
SAFETY DEVICE
Robert J. Kutsler, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application January 19, 1950, Serial No. 139,518
14 Claims. (Cl. 137—66)

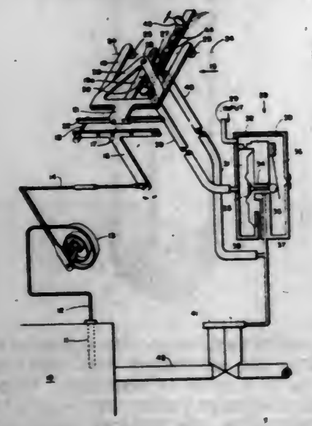
9. In a control device of the type described, the combination comprising control means having an operative position and an inoperative position, means biasing said control means toward

its inoperative position, means for actuating said control means to its operative position and having spaced abutments thereon, and means responsive to a condition and having spaced latch means for cooperating with said abutments on said actuating means to prevent movement of



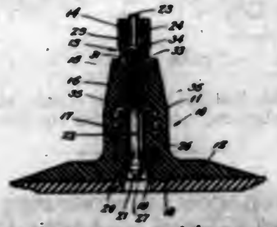
said actuating means when said condition does not exist and to move with respect to said actuating means to permit said actuating means to move said control means to its operative position when said condition exists and to hold said control means in its operative position only as long as said condition exists.

2,652,066
PNEUMATIC MODULATING RELAY
Hoel L. Bowditch, Foxboro, Mass., assignor to The Foxboro Company, Foxboro, Mass., a corporation of Massachusetts
Application March 14, 1951, Serial No. 215,611
1 Claim. (Cl. 137—85)



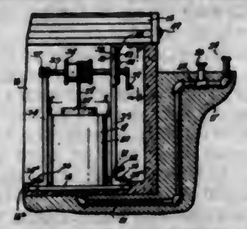
In a pneumatic action device for use in instruments as described, a nozzle, means for producing a pneumatic flow through said nozzle, a flapper unit mounted in the path of said pneumatic flow for pivotal movement about an axis with respect to said nozzle so as to vary said flow, said flapper unit including a flexible portion movable independently of said unit movement as another means of varying said flow, means for producing said unit movement in response to changes in a variable condition, a pneumatic relay connected to said nozzle and operable by variations of said flow to produce a relay output force, and a ball piston pneumatic unit arranged to direct said relay output force against said flapper unit flexible portion through ball contact therewith substantially on said flapper unit axis to produce said independent movement in opposition to said unit movement, whereby pivoting of said flapper unit about said axis causes said flexible portion to pivot about said ball without further flexing, and said nozzle and said flapper unit achieve a particular position relation, with said relay output force available as a working force which is proportionally representative of said response to said variable condition change.

2,652,067
RUBBER TIRE VALVE
Oakley W. Hosking, Monroe, N. Y.
Application November 21, 1947, Serial No. 787,458
9 Claims. (Cl. 137—223)



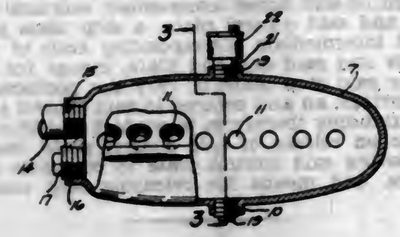
4. A valve structure comprising a resilient tubular rubber body having an integral annular shoulder in its bore providing a valve seat; means carried by the body and surrounding a portion of the body adjacent the said shoulder to limit circumferential expansion of the shoulder; a valve core insertable in said body, including a valve engageable with one side of said shoulder, and including means engageable with the other side of the shoulder to provide a non-yielding backing therefor; and means for removably securing the valve core in said body.

2,652,068
FIRE EXTINGUISHING APPARATUS FOR HOMES
Joseph Petro, Garfield Heights, Ohio
Application December 6, 1951, Serial No. 260,219
17 Claims. (Cl. 137—266)



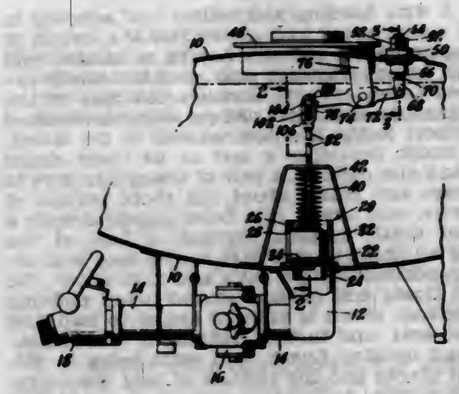
1. A fire extinguishing apparatus for a building, comprising a tank for containing water located below ground level and within the building, a water discharge pipe extended from the bottom of said tank and discharging above the ground level externally of the building, a vertically slidable piston within said tank for resting on the surface of the water contained in the tank, means including a pawl and ratchet for holding said piston in a raised position within said tank, a solenoid connected to the pawl of said holding means, circuit means including a switch located externally of the building for energizing said solenoid to lift said pawl free of said ratchet causing said holding means to release said piston to fall within said tank for forcing the contained water to exit through said discharge pipe, and a normally closed valve in said discharge pipe manually openable from the exterior of the building to permit the water to flow from the discharge pipe when said piston is moving downward within said tank.

2,652,069
DISTRIBUTING AND VENTING HEADER
Herman M. Goheen, Lansing, Mich.
Application May 26, 1947, Serial No. 750,563
4 Claims. (Cl. 137—271)



1. A venting and distributing header having an expansion chamber, a pair of main openings communicating with the interior of said chamber at vertically spaced levels, a plurality of longitudinally spaced distributing openings along each side of said chamber and communicating therewith at a level substantially midway between the levels of said main openings and upper and lower venting outlets communicating with said chamber.

2,652,070
GASOLINE TANK TRUCK VALVE
Robert D. Marx, Valley Stream, N. Y.
Application December 2, 1947, Serial No. 789,189
3 Claims. (Cl. 137—326)



1. A gasoline tank discharge valve including in combination an outlet in the bottom of a gasoline tank and having an apertured cylindrical guide surrounding a valve seat at the outlet port, a cylindrical valve member vertically slidable in said guide and adapted normally to rest against the seat to close the outlet, a slotted yoke supported by the bottom surface of the gasoline tank and extending immediately above the valve, a lift rod attached to the valve member guided by the slotted yoke and moveable sidewise into and out of the slot, a compression spring surrounding said lift rod and positioned between the yoke and valve member to seat the valve member in closed position, a lever pivoted to the upper internal portion of the gasoline tank and connected to the lift rod for actuation of the valve, and remote control fluid means for actuating the lever.

2,652,071
VALVE
Samuel O. Merrison, Media, Pa.; Ella P. Merrison, executrix of said Samuel O. Merrison, deceased, assignor to Sunroe Refrigeration Company, Dover, Del., a corporation of Delaware
Original application November 29, 1943, Serial No. 512,467. Divided and this application October 17, 1949, Serial No. 124,765
1 Claim. (Cl. 137—630.22)

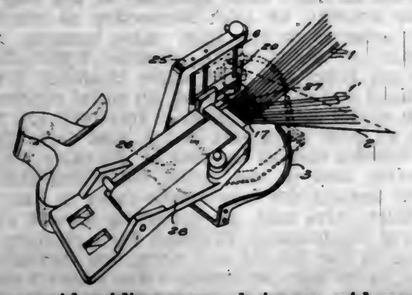


In a valve, a cylindrical valve housing, walls forming an inlet valve chamber at the rear end of the housing, an inlet connection at relatively high pressure to the inlet valve housing, walls forming an outlet valve chamber hydraulically separate from the inlet valve chamber toward the front end of the housing, an outlet connection to the outlet valve chamber at relatively low pressure, an inlet valve seat in the inlet valve chamber directed toward the rear of the valve, an outlet valve seat in the outlet valve chamber directed toward the rear of the valve in line with the inlet valve seat, an operating handle at the front of the housing, an outlet valve plunger connected to the handle and extending through the outlet valve seat, an outlet valve secured on the outlet valve plunger engaging the outlet valve seat in closed position, and closing by motion of the outlet valve plunger toward the front of the housing, spring means located inside the handle urging the outlet valve plunger toward closed position of the outlet valve, an inlet valve plunger extending in prolongation of the outlet valve plunger, making a lost motion connection with the outlet valve plunger and extending through the inlet valve seat, an outlet valve secured on the inlet valve plunger engaging the inlet valve seat in closed position and closing by motion toward the front of the housing, spring means urging the inlet valve toward closed position, a connection to the inlet valve seat on the side toward the front of the valve housing and a connection to the outlet valve seat on the side forward of that valve seat in the housing, the two connections last named being connected to one another to provide flow through the inlet valve seat and through the connections last mentioned and then through the outlet valve seat when both valves are open.

2,652,072
SHUTTLELESS LOOM WITH CONTINUOUS WEFT SUPPLY
Carlo Villa, Meina, and Asturio Meriani, Milan, Italy, assignors of one-half to Giovanni Piazzolla, Milan, Italy
Application June 24, 1949, Serial No. 101,892
In Italy July 8, 1948
2 Claims. (Cl. 139—124)

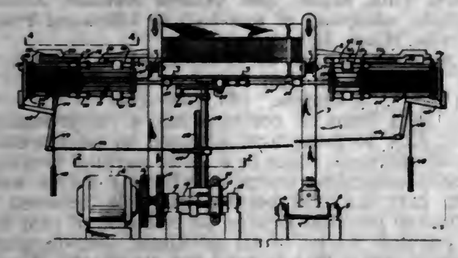
1. In a loom, in combination, a reciprocating weft loop forming arm adapted to pass transversely through sheds in a set of parallel longitudinally extending warps and having a free weft loop carrying end portion movable between a retracted position located on one side of said set of parallel warps to an advanced loop-forming position projecting beyond the other side of said set of warps so as to form a weft loop portion projecting beyond said other side of said set of warps; a guiding means composed of two coaxial rods extending normal to the weaving plane de-

fined by said set of warps and said weft loops, and located on said other side of said set of warps with the common axis of said two coaxial rods adapted to pass through a projecting weft loop portion formed by said weft loop-forming arm, said coaxial rods having free ends spaced a short distance from each other and from said weaving plane so as to define a gap permitting passing of said weft loop forming arm; movable carriage means having two spaced projecting arms, each of said arms formed with a bore at the free end thereof, said bores being coaxial, said carriage means being mounted on said loom movably in two opposite directions normal to said weaving plane with said guiding means passing through said bores; a bobbin-carrying means for weaving a binding thread into said weft loop end portions of said weft loops mounted axially slid-



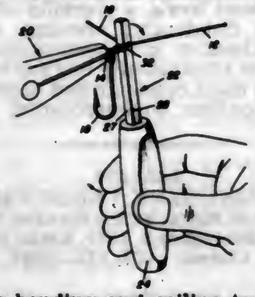
ably on said guiding means between said projecting arms of said movable carriage means so as to be taken along by the same during movement thereof so as to pass through said weft loop end portions, said bobbin-carrying means having a length shorter than the distance between said projecting arm of said carriage means so that a gap is formed between said bobbin-carrying means and the respective projecting arm of said carriage means located forwardly in the direction of movement of said carriage means, said gap coinciding with said above-mentioned gap between said free ends of said coaxial rods of said guiding means so as to permit said weft loop carrying end portion of said weft loop forming arm to pass through said coinciding gaps and to form a weft loop end portion adapted for the passing of said bobbin-carrying means; and means for reciprocating said carriage means.

2,652,073
LOOM AND ACTUATION MEANS FOR LOOM SHUTTLES
Antonio Longoria, Cleveland, Ohio
Application June 6, 1950, Serial No. 166,427
13 Claims. (Cl. 139—145)



1. In a loom, a frame, a pair of end plates secured to spaced portions of said frame, a plurality of bearing rods secured to and extending between said end plates in parallel relation to each other, a plurality of carrier sleeves slidably carried on said bearing rods, a compression control plate secured to said carrier sleeves for movement along said bearing rods, a plurality of positioning tubes extending between said end plates in spaced parallel relation to each other and to said bearing rods, a coil spring received on each of said tubes intermediate one said end plate and said control plate, a stop plate positioned intermediate corresponding ends of said springs and said one end plate, means for adjusting said stop plate to vary the positions of said springs, an arm secured to said control plate and extending therefrom to contact and throw a shuttle on release of said control plate, means for moving said control plate to compress said springs, and means for releasing said control plate.

2,652,074
WIRE BENDING AND COILING TOOL
Rudolph Cantu, Lyford, Tex.
Application September 18, 1952, Serial No. 310,234
3 Claims. (Cl. 140—124)



2. A wire bending and coiling tool adapted to form a permanent loop at one end of a length or wire comprising a shank having a handle, said shank being provided with a substantially V-shaped notch opening through one face of the shank, said notch being oblique and thus inclined in respect to the longitudinal axis of the shank, said notch providing a seat at its inner closed end and also defining a pair of triangular jaws to embrace and rotate about the shaft portion of the wire, said shank also being provided with a second notch opening through a face of the shank adjacent to said first named face and being in communication with said first notch, the inner closed end of said second notch defining a wire seat which is at right angles to said first named seat, and further defining a wire retaining and bending finger, said seats being in different planes and the vertices of said jaws serving to provide an entrance mouth for said first notch which is substantially coplanar with the seat in the second notch, the bottom of said second notch being undercut and including a lateral groove communicating with the mouth of the first notch and serving to permit the complemental right angularly disposed portions of the wire to unobstructedly and simultaneously pilot themselves into both notches.

2,652,075
SAWING, CUTTING, AND RASPING TOOL FOR WOODWORKING
Günter Mannes, Remscheid, Germany, assignor to F. Aug. Henneknovel, Remscheid-Bliedinghausen, Germany, a firm
Application October 27, 1950, Serial No. 192,501
In Germany November 15, 1948
2 Claims. (Cl. 142—133)

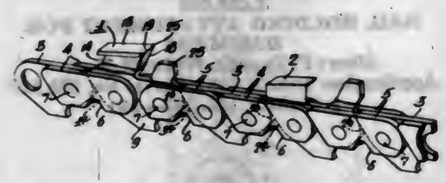
1. Improved sawing, cutting and rasping tool, particularly for use in woodworking, comprising a

flat rectangular steel bar having alternate sides of substantially different lengths and being twisted about its axis, said bar having saw teeth of substantially pyramidical shape extending along the four edges thereof, said teeth pointing in the same direction and being arranged in two pairs of continuous helical rows, said four



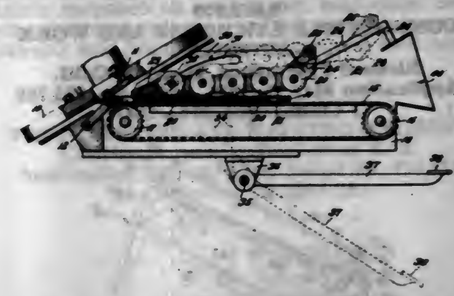
rows of teeth being parallel, the rows of each pair being closed spaced beside each other with two relatively wide and deep channels running between and parallel to said pairs, the width of the channels being substantially wider than the distance between the rows of teeth of any one of said pairs, the depth of the channels causing the teeth to protrude substantially.

2,652,076
CUTTING SAW CHAIN
Norman C. Bye, Wynnmoore, Pa., assignor to Henry Disston and Sons, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application March 10, 1950, Serial No. 148,787
9 Claims. (Cl. 142—135)



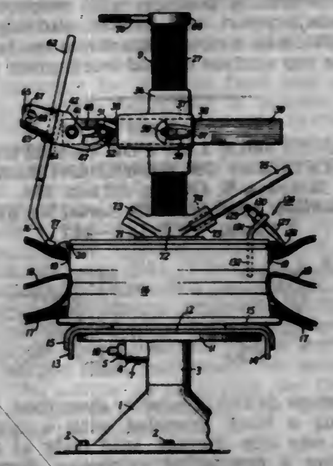
1. A cutting chain comprising cutter links and means for connecting said links in the chain assembly, said links each comprising a single shank and a chisel portion at the outer end of said shank having a transverse cutting edge, said links being divided into two groups in one of which the shanks and a major extent at least of the cutting edge of each of the chisel portions are disposed to one side of the median plane of the chain and in the other of which the shanks and at least a major extent of the said cutting edge of each of the chisel portions are disposed to the other side of the said median plane, the cutter links of one group being alternately interspersed longitudinally of the chain with the links of the other group to form cuts alternately at least in major part on either side of said median plane, and each of said links including a depth gauge finger offset to the opposite side of the said median plane from the shank portion of said link so as to travel in the cut of the chisel portion of an immediately preceding link of the other group.

2,652,077
FEEDING MECHANISM FOR CHIPPERS
Ronald R. Alexander, Carthage, N. Y., assignor to Carthage Machine Company, Carthage, N. Y., a corporation of New York
Application November 22, 1950, Serial No. 197,018
3 Claims. (Cl. 144—176)



1. Feeding mechanism for feeding material to chipper disks, comprising a conveyor and means disposed above and extending longitudinally of the conveyor for pressing the material downwardly on the conveyor, said means including a frame translatably disposed above the conveyor, rollers mounted on the frame, and downwardly and forwardly inclined means for slidably supporting the front and rear ends of said frame, said last named means including a guideway inclined downwardly toward and longitudinally of the path of movement of the conveyor and at an acute angle thereto, said frame being gravitationally movable bodily longitudinally and vertically on said supporting means.

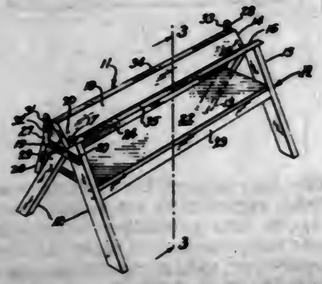
2,652,078
WHEEL SUPPORT WITH A CIRCUMFERENTIALLY AND AXIALLY MOVABLE TOOL-HOLDER
Hugh M. Rockwell, Freeport, N. Y.
Application August 27, 1948, Serial No. 46,445
2 Claims. (Cl. 144—288)



1. The combination comprising, a screw-threaded arbor, a base for the arbor, a support for a wheel having a detachable rim, on the base having means for preventing the wheel from turning on said base, a nut screw-threaded to the arbor, a tool, a tool holder support therefor laterally adjustable in the nut, a tool holder having an adjustable connection with said tool holder

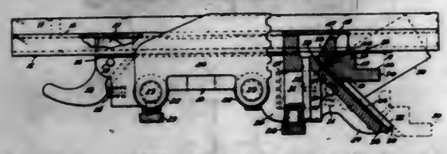
support, said tool holder being provided with a drive-bar for rotating the tool with regard to said wheel, and a clamp for engaging the edge of the wheel and detachable rim while having a tire associated therewith.

2,652,079
CONVERTIBLE SAWHORSE AND WORK SUPPORT
Richard P. Werthen, Modesto, Calif.
Application May 11, 1951, Serial No. 225,759
1 Claim. (Cl. 144—288)



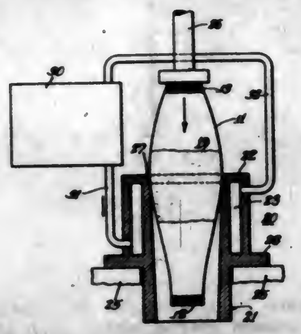
A work-bench construction comprising; a saw horse assembly including an elongate work-piece support, said work-piece support comprising two longitudinally extending relatively flat boards joined together along contiguous longitudinal marginal edges and disposed angularly to one another defining an upwardly facing V-shaped trough, a pair of similarly formed A-frames supporting said work-piece support adjacent opposite ends thereof, a bench top hingedly mounted by a hinge means under said saw horse, said hinge means comprising a pair of L-shaped brackets disposed adjacent opposite ends of said bench-top, each bracket having a longitudinal slot formed in one arm thereof and secured to said saw horse with the slotted arm thereof projecting upwardly, a hinge pin projecting outwardly from each end of said bench-top whereby said bench-top may be swung toward and away from an overlying position with respect to said work-piece support and moved slidably downwardly within said slotted bracket arms to a point below the top surface of said work-piece support.

2,652,080
ADJUSTABLE JAW FOR CLAMPING FIXTURES ON WORKBENCHES
Herman E. Clauss, Affton, Mo.
Application April 12, 1949, Serial No. 87,095
1 Claim. (Cl. 144—287)



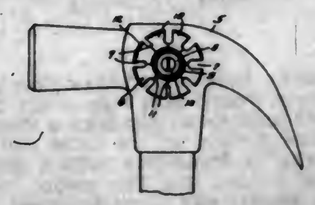
In a fixture of the character described, a member having a body provided with a cylindrical shank at one side thereof, said body at another side having a dovetailed guideway disposed at an acute angle to the longitudinal axis of the shank, the guideway having an elongated facial recess parallel with and midway the side edges of the guideway, a jaw having a plurality of right angular work engaging faces at one side thereof and having a dovetailed tongue at another side which is disposed at an angle to the work engaging faces and having sliding engagement with the guideway, and yieldingly supported means carried by the dovetailed tongue slidably engageable in the aforesaid facial recess to limit sliding movement of the jaw relative to the aforesaid body.

2,652,081
PROCESS OF MANUFACTURING BOWLING PIN BILLETS
John Ross Curtis, Nashotah, Wis.
Application August 23, 1949, Serial No. 111,794
1 Claim. (Cl. 144—309)



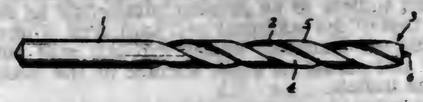
The process of treating a bowling pin billet of a size which will not pass through a ring gauge having an inside diameter of 5½ inches which comprises soaking a kiln-dried billet for a period of the order of one hour in a solution comprising linseed oil, turpentine and a naphtha petroleum solvent, coating the belly of said billet with a molten wax, and immediately thereafter forcing said billet through a tapered die having a minimum diameter of the order of 4¾ inches to densify the surface of an intermediate portion only of said billet while simultaneously heating said die to a temperature of the order of 240° F.

2,652,082
NAIL HOLDING ATTACHMENT FOR HAMMERS
Albert P. Zanelli, Wyckoff, N. J.
Application June 8, 1951, Serial No. 230,529
1 Claim. (Cl. 145—30)



A nail holding device for the head of a nail driving tool, comprising a disc-like body portion constructed of sheet metal material having a central depressed portion and an opening through the central depressed portion, said body having cut-out portions extending inwardly from the edge thereof terminating at points adjacent to the depressed portion, providing pairs of jaws with parallel side edges, portions of the body being slit from the inner ends of the cut-out portions to points at the edge of the depressed portion, said jaws adapted to grip a nail held therebetween, and a pivot screw extending through the opening in the center of the body portion rotatably mounting the body portion on the head of the tool.

2,652,083
WOOD BIT
Joseph V. Emmons, Shaker Heights, Ohio, assignor to The Cleveland Twist Drill Company, Cleveland, Ohio, a corporation of Ohio
Application August 2, 1951, Serial No. 239,940
1 Claim. (Cl. 145—117)



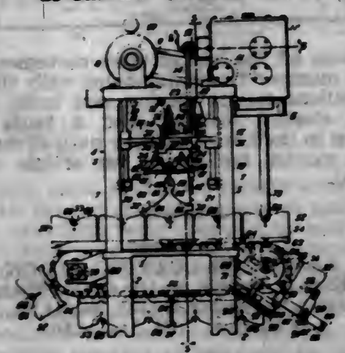
A wood bit comprising a main body portion having alternate helical flutes and lands, the ends of said lands terminating in divergent plane surfaces which are alternately oppositely inclined with respect to a plane normal to the axis of the bit to provide two principal cutting edges formed on the ends of said lands extending inwardly from the outside corner of the land in a continuous arc to the base of a pyramidal brad, the angle of the plane in which the arc is located being from 92° to 100° to the longitudinal axis of the bit, the tangent to the outside end of the arc forming a rake angle of the cutting lip of from 5° to 20°, the inner ends of the principal cutting edges terminating in the base of a pyramidal brad which has the form of a rhomboidal parallelogram, the long sides of which are on the surfaces of the helical flutes, two opposite edges of the pyramid being higher than the other two edges thus providing secondary cutting edges with clearance behind them.

2,652,084
SQUARE HOLE DRILLING BIT
Joseph E. Lucas, Longview, Tex., assignor, by direct and mesne assignments, of thirteen-twentieths to Richard T. Wells and one-twentieth to John S. T. McDowell, both of Longview, Tex.
Application August 12, 1948, Serial No. 43,887
5 Claims. (Cl. 145—123)



1. A square hole cutter comprising a square bearing block, said block having an axial bore therein, an auger, a shank on said auger, said shank being journaled in said axial bore, a square shell mounted on the bearing block and rigidly secured thereto, the sides of said shell being tangential to the circular path described by the outer extremities of the cutting edges of said auger, a square member embracing the lands of said auger and slidably mounted in said shell, corner cutters secured in depending relation on said square member, the outer surfaces of said corner cutters being flush with the outer surface of said shell, a plurality of offset spindles integral with said square member, said bearing block having bearing bores slidably mounting said spindles, an outer shell portion rigidly secured to said bearing block, a transverse member carried by said outer shell, radially extending cams rigidly mounted on said spindles, a cam actuator rigidly mounted on said auger, said cams overlying said cam actuator, spring means interposed between said transverse member and said cams.

2,652,085
FRUIT PITTING AND HALVING MACHINE
Charles H. Ansley, Rochester, N. Y.
Application July 20, 1950, Serial No. 174,915
13 Claims. (Cl. 146—28)



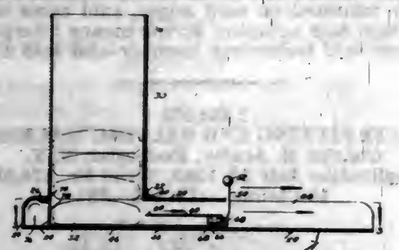
1. In a machine of the class described including a conveyor provided with blade units having means for engaging and holding the pit of the fruit, pit ejecting means located at one end of the conveyor and comprising spaced guides located at said end of the conveyor at opposite sides thereof, a pit ejecting slide having spaced sides slidable in said guides and provided with pit ejecting means arranged to extend transversely of the blade units in position for engaging and dislodging pits carried by the conveyor, a spring connected with the slide, and a cam arranged to move the slide in one direction and tension the spring and release the slide after the spring is tensioned whereby the spring will actuate the slide to dislodge the pits.

4. A machine for halving fruit and removing the pits thereof, including a support for the whole fruit, a vertically movable carriage over said support, fixed vertical guiding means for the carriage, driving mechanism for reciprocating the carriage toward and from the support, knives movably mounted on the carriage and arranged in two pairs with the cutting edges of one pair in opposing relation to the cutting edges of the other pair and with one flat face of each knife normally in juxtaposition to a flat face of the other knife of its pair, means yieldably urging the cutting edges of opposing pairs together so that upon the downward stroke of the carriage the knives cut the fruit, and means for laterally separating the knives of each pair for freeing the halves of the fruit from the pit thereof after being cut by the blade edges.

2,652,086
BUN SLICER
Adolph O. Goldstein, Santa Cruz, Calif.
Application May 11, 1951, Serial No. 225,783
3 Claims. (Cl. 146—72)

1. A slicing apparatus comprising a housing having a bottom wall and a spaced top wall, said

top wall being formed with an opening, a hopper mounted on the top wall for retaining articles in stacked formation and communicated with the opening, a carrier member slidably disposed in the housing and adapted to underlie the hopper for receiving an article from the hopper, a flexible baffle member connected to the carrier member



for closing off the hopper upon movement of the carrier member from alignment with the opening, resilient means biasing said baffle member out of closing position, and a knife fixedly mounted in the housing in the path of movement of the carrier for slicing an article disposed thereon.

2,652,687
SANDWICH CUTTING BLOCK
Elias B. Turpin, Battle Creek, Mich.
Application November 2, 1949, Serial No. 124,999
3 Claims. (Cl. 146—150)



1. A unitary rigid device for use in preparing sandwiches comprising a bottom having rectangularly arranged upstanding walls at its edges and corner slots extending from the tops of the walls to the bottom and adapted to receive the blade of a knife diagonally of the bottom, the walls having finger openings therein facilitating the grasping of the food within the walls.

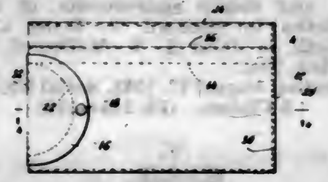
2,652,688
MANUFACTURE OF ARTICLES, SUCH AS VALVED BAGS, MADE OF WATERPROOF LAMINATED FABRIC
Norman E. Weeks, Normandy, Mo., assignor to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri
Application December 31, 1947, Serial No. 794,230
10 Claims. (Cl. 156—9)



1. The process of printing laminated material having an outer layer of porous sheet material forming the printing surface which is to be exposed to view, which layer is bonded to the next adjacent layer by a laminant of contrasting color with respect to said outer layer and adapted upon melting to bleed through the pores of the outer layer, comprising locally heating the laminant over a localized area corresponding in outline to desired indicia to be printed sufficiently to melt a portion of the laminant over said area, whereby the melted laminant bleeds through said outer layer and stains its outer surface in the outline of said indicia.

9. A valved bag formed of waterproof laminated bag fabric having an outer layer of porous sheet material bonded to an inner layer by a waterproofing laminant adapted to bleed through the outer layer when melted, the porous layer constituting the outside of the bag, said bag having a tucked-in valve flap extending into its mouth, and a valve sleeve of flexible sheet material heat sealed to the inside of the inner margin of the valve flap by a thermoplastic adhesive, a portion of the laminant in the inner margin of the valve flap being absorbed in the outer layer over an area corresponding in outline to a desired marking for the bag and extending completely through the outer layer to form a stain on its outer surface having the outline of said marking, and the valve sleeve being heat sealed over an area coextensive with the stained area of the porous layer.

2,652,689
UTILITY AND SPECTACLE CASE
Martha K. Cramer, New York, N. Y.
Application September 15, 1950, Serial No. 185,134
1 Claim. (Cl. 150—35)

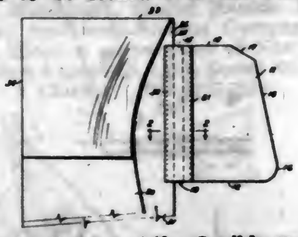


A combination utility and spectacle case comprising a sheet of pliable material having two portions the first of which in unfolded position forms a continuation of the second portion and lies in the same plane as the second portion, said first portion being L-shaped and having its extremities formed as flap sections, while the second portion is divided by a longitudinal folding line into two longitudinal sections, said first portion being folded upon one longitudinal section of said second portion so as to be parallel thereto, and the other longitudinal section of said second portion being folded upon said first portion, so that the latter is located between the two longitudinal sections of said second portion, two edges of that section of the second portion which is folded upon said first portion being secured to said first portion, and one edge of that section of the second portion upon which said first portion is folded being secured to said first portion.

2,652,690
PURSE WITH ATTACHED LOSS-PREVENTING DEVICE
Eldon C. Henderson, Paso Robles, Calif.
Application October 29, 1951, Serial No. 253,629
5 Claims. (Cl. 150—47)

1. The combination of a purse having side edges adapted to enter the pocket of an article

of clothing through the constricted mouth thereof with the said side edges perpendicular to the mouth; a guard tab of thin, stiff, sheet material extending beyond one of said side edges; and a hinge made of thin, flexible material, operable on a hinge line substantially parallel to said one side edge, said material being permanently fixed to said guard tab and to the purse along the said one side thereof and adapted to permit said guard tab to be folded over the outer face of



said purse by flexure of the flexible material, the distance from the edge of the guard tab that is remote from the purse to the remote side edge of the purse being slightly greater than the width of said mouth to prevent extraction of the purse from the pocket when the guard tab is extended and the width of the guard tab being not substantially greater than the width of the purse between said side edges thereof to permit passage of the purse through said mouth when the guard tab is folded over the outer face of the purse.

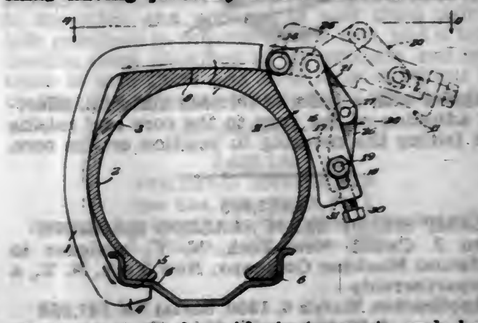
2,652,691
DUAL WHEEL ALIGNING RING FOR VEHICLES
John F. Kane, Fall River, Mass., assignor to Kane Chain Company, Incorporated, Fall River, Mass., a corporation of Massachusetts
Application March 17, 1948, Serial No. 15,446
7 Claims. (Cl. 152—220)



3. The combination with a dual vehicle wheel, comprising a hub portion, spokes radiating therefrom and connecting inner and outer wheel rims with tires mounted thereon, of an aligning ring positioned in a circumferential plane around the wheel intermediate said rims, consisting of a web portion and flange portions adjacent said rims, said ring having a plurality of spaced flange indentations disposed between said spokes, and a traction chain assembly of a type encircling said outer tire and wheel, passing through one of said indentations, the coinciding parts of said chain assembly being engageable with the body portion of said aligning member flange adjacent the indentation and the walls of said indentation, when the assembly is in an adjusted position.

2,652,692
TIRE TRACTION CLAMP
Brice H. Lantz, Valparaiso, Ind., assignor to Lantz Manufacturing Company, Inc., Valparaiso, Ind., a corporation of Indiana
Application January 5, 1950, Serial No. 136,903
4 Claims. (Cl. 152—228)

1. A tire traction device for a rim mounted tire comprising a rigid arm formed to extend transversely across the inner side wall of the tire, a rigid lip on the arm in position to engage the inner side of the wheel rim on which the tire is mounted, a rigid traction bar integral with the arm and disposed in position to extend transversely across the tread of the tire, a movable arm pivoted to the end of the bar and having a portion forming a shoe for engagement with the outer side wall of the tire, and a pair of toggle links having pivotally interconnected ends and



pivot remote ends, said pivot remote ends being respectively pivoted on said bar and on said movable arm, said links being operable, by movement of the pivotally interconnected ends thereof inwardly, to clamp said shoe against the outer side wall of the tire and thereby clamp the tire between said arms to thus secure the device upon a rim mounted tire, and to release the device from mounted position in response to outward movement of the pivotally interconnected ends of the links.

2,652,693
METHOD OF MAKING REINFORCED RUBBER HOSE
Frank L. Burton, Denver, Colo., assignor to The Gates Rubber Company, Denver, Colo., a corporation of Colorado
Application March 2, 1949, Serial No. 79,283
8 Claims. (Cl. 154—8)



1. A method of making a hose, which comprises forming a core having an outer layer of uncured rubber; winding, under tension and around the outside of said outer uncured rubber layer elements, formed of heat shrinkable synthetic fibers; and then curing by heat the rubber thereof, to form a hose wherein said elements are embedded within the outer layer of rubber after curing and the outer surface of said hose is rubber.

2,652,694
METHOD OF MAKING TENNIS BALLS
John Anderson, Sutton Coldfield, and Ronald Stansfield Goy, Castle Bromwich, Birmingham, England, assignors to Dunlop Tire and Rubber Corporation, Buffalo, N. Y., a corporation of New York
Application November 28, 1950, Serial No. 198,012
In Great Britain November 30, 1949
12 Claims. (Cl. 154—16)

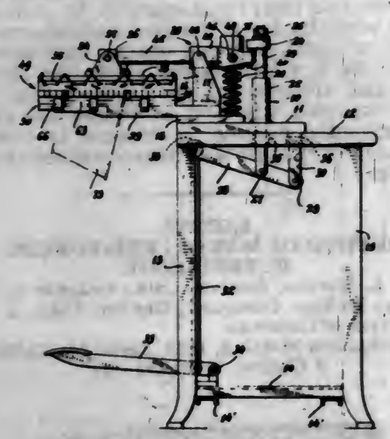
1. A method of making a textile covered ball having an inflated core which comprises cover-

ing an inflated core with a single thickness of composite yarn comprising a central thread



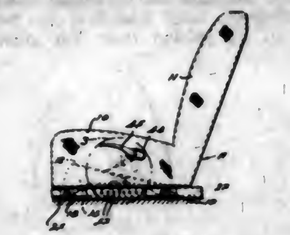
wrapped with a helix of feltable material, effecting adhesion of the yarn to the core and raising and felting the covering in position on the core.

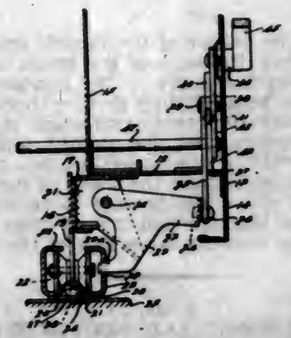
2,652,095
LAMP SHADE SEAM SEALING MACHINE
John J. Cahill, New York, N. Y., assignor to Mutual Machine Company, New York, N. Y., a copartnership
Application March 6, 1950, Serial No. 147,958
4 Claims. (Cl. 154—42)



1. A lamp shade seam-sealing machine having a stationary support, a pressure applying unit mounted on said support, said pressure applying unit having a pair of platens with complementary surfaces between which overlapped ends of the members to be sealed are positionable, and means for applying sealing pressure to the complementary surfaces of said platens, characterized in that one of the platens comprises a fixed horn having a free end projecting laterally from the support and over said free end a tubular lamp shade to be seam-sealed is positionable, said horn comprising a rigid bar, an unbroken sequence of laterally abutting, independently depressible members mounted on said rigid bar and adapted for limited transverse movement relatively thereto, said rigid bar having a row of sockets therein, one such socket for each depressible member, a spring in each socket biasing a depressible member outwardly, and cooperating means on the rigid bar and on the depressible members for limiting the outward movement of the depressible members so that the work engagement surfaces thereof will normally lie flush with one another to provide the work engagement surface of said horn.

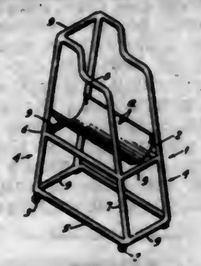
2,652,096
SEAT STRUCTURE
Trygve Vigmostad, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application May 6, 1947, Serial No. 746,213
7 Claims. (Cl. 155—14)





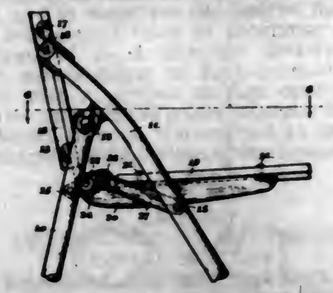
1. In a seat structure for a vehicle body, a seat supporting track, a seat unit movable along said track, latching means cooperating with said track for releasably securing the seat unit in a selected position, operating means for said latching means, a pivot pin pivotally connecting said operating means and latching means, said pivot pin being rigidly secured to one of said means and extending angularly into a pivot hole in the other means and cramped by the latter means when the pivotally connected latch and operating means are in latched position.

2,652,097
ROLLING CRUTCH
Eugene R. Warren, San Francisco, Calif.
Application April 2, 1951, Serial No. 218,722
3 Claims. (Cl. 155—22)



1. A crutch comprising a pair of complementary vertical frames movable over a floor surface, means for spacing the same substantially by the width of a person's knee, and a sling supported by the frames substantially at knee height, the spacing means comprising a spacing member connecting the frames above and forwardly of the sling to form a handhold for a person having the knee of one leg resting on the sling, and the rearward upper ends of the frames being higher than the sling and lower than the spacing member to accommodate the crotch of the person when his other leg rests on the floor on the outside of one of the frames.

2,652,098
FOLDING CHAIR
Walter E. Nordmark, Grand Rapids, Mich., assignor to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Application August 25, 1951, Serial No. 243,610
5 Claims. (Cl. 155—139)



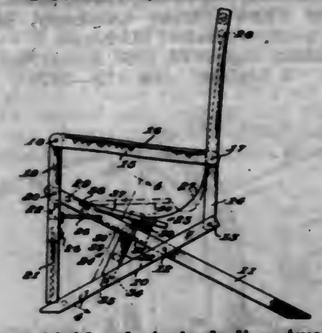
1. In a folding chair: a pair of spaced apart rear legs; a pair of front legs pivotally connected to the upper ends of the rear legs and extending thereabove; a chair back pivotally connected at its opposite sides to the upper ends of the front legs; a chair seat pivotally connected in the rear to the lower end of the chair back; rear links having their rearward ends pivotally connected to the rear legs and having their forward ends pivotally connected to the seat; front links having their rearward ends pivotally connected to the rear links and the seat at their pivotal connections, and having their forward ends pivotally connected to the front legs; and stop means on the front legs for supporting the forward part of the seat in the unfolded position of the chair.

2,652,099
FOLDING CHAIR
Nicolás Hermilio Celestino Sciarrillo, Cayetano Enrique Nicolás Sciarrillo, and Reinaldo Hermilio Sciarrillo, Buenos Aires, Argentina
Application April 25, 1951, Serial No. 222,796
1 Claim. (Cl. 155—147)



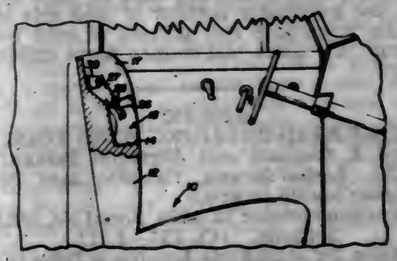
A folding chair comprising a first pair of parallel lath members, a first cross-member extending between said first pair of lath members at one end of the latter, a second cross-member extending between said first pair of lath members intermediate the ends of the latter, a second pair of parallel lath members pivotally mounted intermediate their ends on said second cross-member for scissoring movement relative to said first pair of lath members, a third cross-member extending between said second pair of lath members at one end of the latter, a fourth cross-member parallel to said third cross-member and extending between said second pair of lath members at locations adjacent to and spaced from said one end of the latter, a third pair of parallel lath members each pivotally mounted at a location adjacent to and spaced from one end thereof on said fourth cross-member, a fifth cross-member extending between said one end of said third pair of lath members, a first flexible sheet attached at its opposite end portions to said first and fourth cross-members to provide a seat, a second flexible sheet attached at its opposite ends to the other end portions of said third pair of lath members to provide a back rest, and a third flexible sheet attached at its opposite end portions to said third and fifth cross-members for limiting the swinging movement of the back rest.

2,652,100
FOLDING ARMCHAIR
Jim Lee, New York, N. Y.
Application March 28, 1950, Serial No. 152,427
4 Claims. (Cl. 155—150)



1. In a foldable chair including two pairs of intersecting pivotally connected legs with each pair comprising an inner and an outer leg; a frame member pivotally connected to the inner legs and having a detachable connection with the outer legs, and a seat pivotally connected with the inner legs and supportable on the frame member adjacent its pivotal connection.

2,652,101
ADJUSTABLE HEADREST
Abraham Samsky and Henry M. Houseman, Detroit, Mich.
Application January 14, 1952, Serial No. 266,287
6 Claims. (Cl. 155—177)



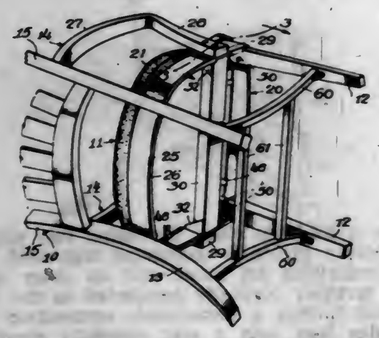
1. In combination, a vehicle seat structure embodying a backrest having a recess therein providing a receiving pocket for a liftable and lowerable headrest, a headrest occupying an out-of-the-way position in said pocket, and extensible and contractible individual linkage units pivotally connected with said backrest and headrest respectively and permitting said headrest to be swung from said pocket through an arcuate path so as to occupy a position above said backrest,

said headrest being swingably suspended between the upper ends of said units, whereby to provide



a readily regulable support for the user's head and neck.

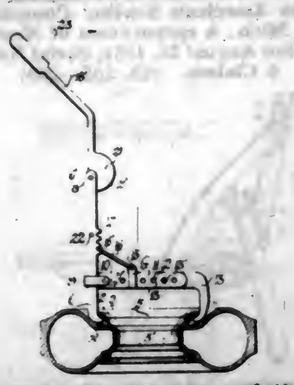
2,652,102
ARMREST AND BRACE FOR COMPOSITE METAL AND WOOD CHAIRS
John S. Burdick, North Muskegon, Mich., assignor to The Shaw-Walker Company, Muskegon, Mich., a corporation of Michigan
Application August 23, 1950, Serial No. 180,988
4 Claims. (Cl. 155—197)



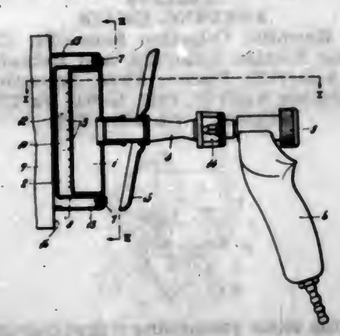
1. In a composite metal and wood chair structure, a sheet metal seat frame including upright side strips and supporting means therefor, wooden arms having their front ends in flatwise supported engagement along the outer faces of said side strips at the opposite sides of the seat frame, a tie bar spanning said frame transversely, having upright metal end portions in flatwise supporting engagement with the opposed inner faces of said side strips, and bolts passing through the front ends of each of said arms, the proximate portion of said side strips, and the proximate end portion of said tie bar to secure the three last-named parts rigidly together.

2,652,103
TIRE BEAD BREAKING HAND TOOL
Edward J. Danroth and Abraham Petkau, Domaine, Saskatchewan, Canada; said Petkau assignor to said Danroth
Application October 25, 1950, Serial No. 192,624
1 Claim. (Cl. 157—1.17)

A device for separating tire-beads from the associated wheel rim, comprising in combination a pair of vertically situated guides, the lower ends of said guides engaging a portion of the rim flange when in operative position, a substantially horizontal supporting arm pivotally connected to said guides and spanning said wheel diametrically when in operative position, an arm extension connected to said arm by a pin, said extension being provided with a claw-end for engaging said rim at a point substantially diametrically opposite said guides, means for maintaining the verticality of said guides with said supporting arm, said means including a bracing strut pivotally connected to said arm, serrations upon the anterior edges of said guides, the outer end of said strut selectively engageable within one of said serrations, a cleaving blade vertically reciprocable within said guides and adapted to engage a portion of said tire-bead beneath the rim flange engaged by said guides, and an operating assembly for effecting relative vertical movement between said guides and said blade, said operating assembly including an operating handle, a cam-end upon one end of the said operating handle, said cam-end being pivotally connected adjacent the outer ends of said guides, the curvilinear edge of said cam-end engaging the upper end of said blade, said blade being upwardly spring biased to maintain contact between the upper end of said blade and said curvilinear edge of said cam-end.

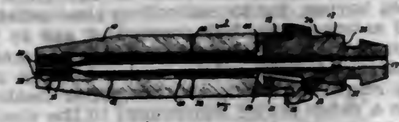


2,652,104
DEVICE FOR REMOVING LAYERS OF PAINT
Jan Prent, Amsterdam, Netherlands
Application November 25, 1949, Serial No. 129,287
In the Netherlands October 7, 1949
2 Claims. (Cl. 158—13.6)



1. A torch device for removing layers of paint from a painted surface while preventing contact of an open flame with said surface which comprises, in combination, a torch head having a handle, gas inlet means and air inlet means, a gas chamber at one end of said torch head for receiving a combustible mixture from said air inlet means and said gas inlet means, said gas chamber having a perforated wall, a bell-shaped hood enclosing said gas chamber and having at its forward end a substantially flat surface opposite the perforated wall of said gas chamber adapted to be heated by the ignited gases passing from the gas chamber through said perforated wall and to transmit the heat to the painted surface to be treated, said hood having side walls connected to said flat bottom for enclosing said ignited gases to prevent contact of said gases with the painted surface and having outlet means for said gases at its rearward end opposite said flat surface and support means for spacing said flat surface from the surface to be treated, said support means comprising spaced members each having an elongated substantially flat continuous edge laterally-spaced from and extending a short distance forwardly of said flat surface, whereby to engage the painted surface to be treated and to maintain the heated flat surface of the bell-shaped hood in proximity to, but a predetermined fixed distance therefrom, said support means being in heat-conducting relationship with a portion of said device directly heated by said ignited gases whereby heat from said ignited gases is transmitted by conduction to the flat continuous edges of the support means.

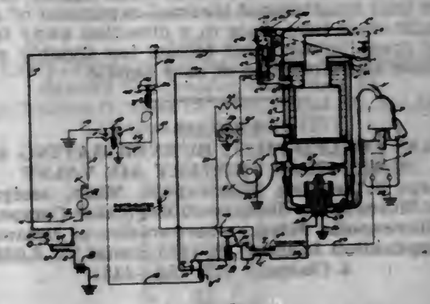
2,652,105
CUTTING TIP OF COMPOSITE CONSTRUCTION
Eli H. Tjomsland, Maywood, and Kurt D. Isecke, Teaneck, N. J., assignors to Vibro Vita Products Co., Ridgefield Park, N. J., a corporation of Delaware
Application February 25, 1948, Serial No. 10,766
13 Claims. (Cl. 158—27.4)



13. A composite cutting tip construction comprising a tubular body portion having a circumferential groove in its outside surface and near the upper end of the body portion, a seat portion having an annular groove into which the upper end of the body portion extends with the circumferential groove of the body portion within the annular groove of the seat portion, a center cutting oxygen tube extending from the seat portion into the body portion of the tip and forming a chamber for gas between the tube and the inner wall of the body portion, the body portion being permanently secured to the seat portion with a gas-tight seal by metal of the seat portion displaced into the circumferential groove of the body portion, and the seat portion being made of different material from the body portion, which material has a co-efficient of expansion lower than that of the body portion so that the circumferential groove surface of the body portion expands against the side of the groove in which it is held in the seat portion as the temperature of the torch tip increases.

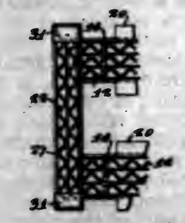
2,652,106
ELECTRICAL CONTROL MEANS FOR LIQUID FUEL BURNING APPARATUS
Allen E. Cleveland, Detroit, Mich., assignor to Perfection Stove Company, Cleveland, Ohio, a corporation of Ohio
Application September 8, 1948, Serial No. 48,312
9 Claims. (Cl. 158—28)

1. In an electric control system for a liquid fuel combustion device, means governing the supply of fuel to said device, an electric actuator for said means, an electrical igniter for the combustion device, an air impeller for supplying combustion air to the device, an electric motor for driving said impeller, a source of direct electric current, a circuit closing instrument, an electric control-unit switch having two circuit closing positions represented, respectively, by a first contact member and a second contact member and characterized by a conducting element movable alternately into engagement with one and the other of said members, a first circuit closing relay involving two circuit closers, a second circuit closing relay, a third circuit closing relay, and a fourth circuit closing relay, each relay comprising an energizing coil and a circuit closer; a main circuit including said source, said conducting element of the control unit switch and the first contact member thereof, the circuit closer of the second relay, the coil of the third relay, and the igniter; an auxiliary circuit, branching from the main circuit between said source and the control-unit switch and including said circuit closing instrument and the coil of the first relay, and energizable by said source of current; a branch circuit also energizable by said source of current and leading from the main circuit between the first contact of control-unit switch and the circuit closer of the second relay and including the coil of the second relay and one circuit closer of the



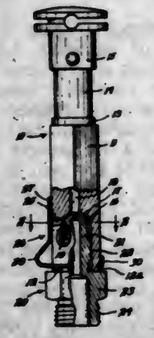
first relay; a second branch circuit energizable by said source of current and including the second circuit closer of the first relay, the coil of the fourth relay, and the actuator of the fuel supply means; a shunt between the main circuit, at a point intermediate the coil of the third relay and the igniter, and the second branch circuit, at a point intermediate the coil of the fourth relay and the fuel supply means, and including the circuit closer of the third relay, and through which shunt said second branch circuit is first energized; a second shunt between the second branch circuit, at a point intermediate the coil of the fourth relay and the last named point, and the main circuit at a point in the latter between its junction with the auxiliary circuit and the control-unit switch and including the circuit closer of the fourth relay, and through which second shunt the second branch circuit is supplied with current after the first mentioned shunt is opened; a circuit leading from the second contact member of the control-unit switch and including the electric motor of the air impeller, and a thermostat subjected to the heat of the combustion device and having operative connection with the conducting element of the control-unit switch for causing said element to move out of engagement with the first contact member of said switch and into engagement with the second contact member thereof when said thermostat is heated.

2,652,107
CROSS LIGHTER AND REMOVABLE PORT-FORMING GRID
George E. Hughes, Columbus, Ohio, assignor to Surface Combustion Corporation, Toledo, Ohio, a corporation of Ohio
Application August 16, 1950, Serial No. 179,717
6 Claims. (Cl. 158—115)



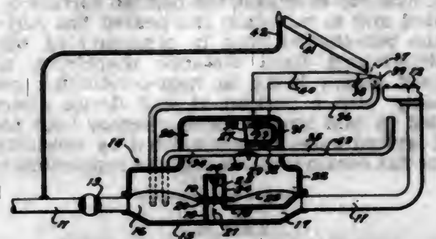
1. In a gas burner, in combination, a plurality burner heads in laterally spaced relation and each having means defining an elongate series of ports from which the gas issues for burning, a cross lighter extending between said heads to provide a continuous line of ignition between said port series, said port-defining means comprising an elongate bundle of port-forming ribbons arranged with one end of said bundle next adjacent the adjacent end of said cross lighter, means for preventing relative movement between the adjacent ends of said bundle and said cross lighter to insure that longitudinal thermal expansion of said bundle shall take place in a direction away from said cross lighter, and means for slidably supporting the other end of said bundle.

2,652,108
GAS FUELED PILOT BURNER HAVING A BIMETALLIC PRIMARY AIR VALVE
George F. Jenkins, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application January 19, 1948, Serial No. 3,029
4 Claims. (Cl. 158—118)



2. A burner comprising a hollow body, a jet member within said body and having a threaded enlarged diameter portion; a first air opening in a wall of said body arranged to cooperate with said portion of said jet member to adjust the flow of air therethrough; a second air opening formed in said wall adjacent the upper end of said jet member; and a bimetallic member having a flat portion for covering said second air opening and a washer-shaped portion surrounding said body and an intermediate arched portion, means on said body engaging said washer-shaped portion for retaining said bimetallic member on said body, said bimetallic member being so constructed and adjusted that the flat portion bears against the body to seal the second opening at the lowest air temperature adjacent the burner air inlet and withdraws from the air opening at higher temperatures.

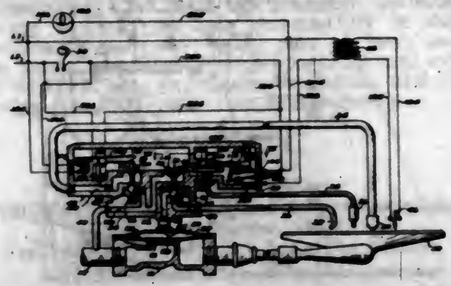
2,652,109
GAS BURNER CONTROL SYSTEM
William A. Ray, North Hollywood, Calif., assignor to General Controls Co., Glendale, Calif., a corporation of California
Application June 24, 1949, Serial No. 101,019
8 Claims. (Cl. 158—124)



1. In a gas-burner control system: a main burner; a gas-supply conduit leading to said main burner; a pilot burner connected to said conduit for igniting said main burner; a main valve in the conduit ahead of said pilot burner connection and said main burner; a normally-closed safety valve in the conduit between the pilot burner connection and the main burner; thermal safety means, energized by the heat of the flame of the pilot burner, for so controlling the operation of said safety valve that passage of gas to the main burner is obstructed when said safety means is unenergized, said safety means heating and cooling relatively slowly so that, after heating, there is a delay period subsequent to the closing of the main valve during which period the safety means is ineffective to prevent passage of gas through the safety valve to the main burner in the event of reopening of the main valve; means forming a gas reservoir communicating with the conduit between the main valve and the safety valve; and means, conditioned by the pressure of the gas supplied to said reservoir when the main valve is open, for supplying gas from the reservoir to the pilot burner during said delay period, said supplying means including flow-restricting means such that the gas is supplied from the reservoir at a rate so low that the small flame thereby sustained at the pilot burner is ineffective to maintain energization of said safety means, the pilot burner connection to said conduit being substantially unrestricted whereby the pilot flame can instantly expand to full size in the event that the main valve is reopened during the delay period.

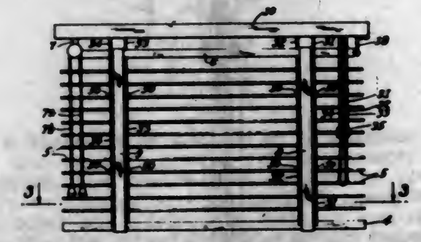
2,652,110
DIAPHRAGM VALVE CONTROL
Robert C. Main, Boston, Mass., assignor to Robertshaw-Fulton Controls Company, Greensburg, Pa., a corporation of Delaware
Application December 1, 1950, Serial No. 198,516
6 Claims. (Cl. 158—124)

4. In combination with a diaphragm valve having a fluid pressure chamber, a casing having an opening adapted for communication with said chamber, said casing having a pair of passages therein one of which communicates with said opening for exhaust of fluid from said chamber, the other passage of said pair providing an inlet for fluid under pressure in said casing and communicating with said opening, said casing having a third passage therein communicating with said other passage and providing an outlet for fluid under pressure, first control valve means operable between positions for opening or closing said outlet, means cooperable with said first control valve means for creating a temperature condition when said control valve means is positioned for opening said outlet, second control



valve means having a first controlling position for closing said other passage and opening said one passage and a second controlling position for closing said one passage and opening said other passage, operating means responsive to said condition for selectively positioning said second control valve means in one of said controlling positions.

2,652,111
VENETIAN BLIND
Brooks Walker, Piedmont, Calif.
Application January 23, 1950, Serial No. 139,981
1 Claim. (Cl. 160—168)



In a Venetian blind comprising a head rail, a tilt rail, a bottom rail, and ladder tapes including opposed side members and intervening slat supporting cross rungs; the improvement comprising a pair of flexible lifting elements disposed adjacent each ladder tape, said flexible lifting elements being disposed outwardly of the planes of the opposite edges of said side members, one of said flexible lifting elements being disposed contiguous to an edge of one side member and substantially in the plane thereof, the other flexible element being disposed contiguous to the opposite edge of the other side member and substantially in the plane thereof, loop members secured to said edges of said side members in vertical positions adjacent predetermined ones of said cross rungs and through which said flexible elements extend.

2,652,112
VENETIAN BLIND BOTTOM WEIGHTS
Brooks Walker, Piedmont, Calif.
Application October 28, 1949, Serial No. 124,075
6 Claims. (Cl. 160—173)

1. In a Venetian blind including a plurality of relatively thin vertically spaced slats upwardly arched in transverse section, a plurality of ladder tapes supporting said slats and a pair of lift cords extending vertically through apertures in said slats; the improvement comprising a member of substantial mass disposed beneath the lowermost of said slats in substantial alignment with each of said ladder tapes, each member having an upper face conforming with and engaging the lower concave surface of said lowermost slat, and a lower face engaged by the lower secured ends of



the respective ladder tape, said members having relatively large recesses opening through their lower faces and apertures in their upper faces communicating with said recesses and aligned with said apertures in said slats, said lift cords extending through said apertures in said upper faces and having knotted lower ends disposed in said recesses, and means for maintaining the upper faces of said members in contact with the lower concave surface of said lowermost slat.

2,652,113
VENETIAN BLIND HEAD RAIL ASSEMBLY
Edward E. Schaefer, Oak Park, Ill.
Application October 29, 1949, Serial No. 124,406
7 Claims. (Cl. 160—177)

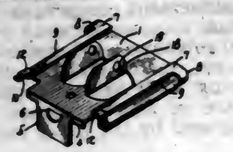


1. A head rail assembly for Venetian blinds comprising an elongated open ended channel member of generally U-shaped cross section having its oppositely disposed longitudinal edges turned inwardly, and tilt rail supporting means including a pair of detachable U-shaped clip members slidably fitted into the opposite ends of said channel member, said clip members having their base portions in contact with the base portion of said channel member and their oppositely disposed free edges received within and engaged by the inwardly turned edges of said channel member and said clip members also having their side portions bowed inwardly under resilient pressure for resiliently retaining said clip members snugly within said channel member.

2,652,114
TAPE SUPPORT FOR VENETIAN BLINDS
Richard H. Wright, Bratenahl, Ohio, assignor to The Guarantee Specialty Manufacturing Company, Cleveland, Ohio, a corporation
Application May 14, 1952, Serial No. 287,665
4 Claims. (Cl. 160—178)

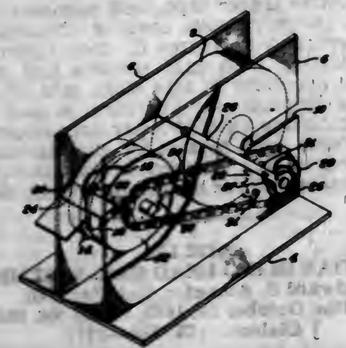
1. A tape support of the class described, comprising a body, means for mounting said body for tilting movement, a resilient tape loop engaging member integrally connected at one end to the

body and extending therealong, and a latch element adjacent the other end of said member for



releasably engaging the same, the free end of the engaging member being positionable above and below said latch element.

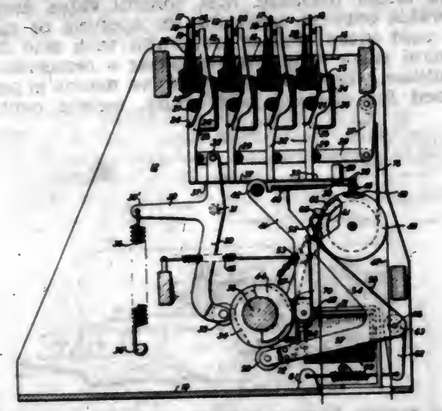
2,652,115
ADHESIVE TAPE DISPENSER
Karol J. Mysels, New York, N. Y., assignor of one-half to Lewis L. Salton, New York, N. Y.
Application April 11, 1946, Serial No. 661,293
5 Claims. (Cl. 164—84.5)



1. A dispenser for pressure-sensitive tape comprising a support for a roll of pressure-sensitive tape, a roller adapted to propel said tape by contact with the non-adhesive side of the tape, said roller being substantially narrower than the tape, and a stripper comprising a U-shaped member having a body portion lying substantially tangent to the roller and the arms of the U lying on each side of the roller.

2,652,116
PERFORATING SYSTEM
Rudolph F. Mallina, Hastings on Hudson, N. Y., and John M. Melick, Cresskill, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 9, 1948, Serial No. 13,898
48 Claims. (Cl. 164—115)

1. In a combined code sorting and reproducing mechanism for multidigit entries, the different digits of which are each symbolized by a different pattern of perforations on a recording medium, a reading device comprising means adapted to cooperate with said perforations for sensing said entries, a plurality of reperforators each having perforating elements and a plurality of latches, one for each perforating element, for normally holding said elements in inoperative position, each of said reperforators also having a controlling frame operable to control movement to perforating position of those perforating elements whose latches are withdrawn, means normally preventing operation of said controlling frame, electromagnetic means controlled by said sensing means for withdrawing the latches from the perforating elements corresponding to the digital patterns of an entry sensed by said sensing means, and electromagnetic means for rendering operative the controlling frame of a particular one of said reperforators in response to a digital pattern in one of the digital orders of said entry.

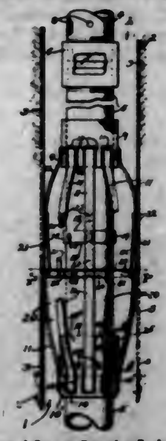


2,652,117
METHOD AND APPARATUS FOR GRAVEL PACKING WELLS
Harry S. Arendt and Gus F. Abendroth, Houston, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application June 16, 1950, Serial No. 168,496
6 Claims. (Cl. 166—1)



1. A method for packing a borehole in a producing formation susceptible to being washed out in which a pipe string defining a screen section has been run including a wash pipe arranged therein wherein the normal circulation from the producing formation is upwardly through said string, which comprises flowing a washing fluid downwardly through an annulus between the pipe string and the borehole and upwardly through said pipe string, directing said flow of washing fluid into said producing formation and outwardly therefrom to wash a cavity in said formation and to wash and clean a portion of said borehole adjacent said producing formation, flowing a mixture of granular material in a liquid carrier vehicle downwardly in said borehole through said wash pipe to deposit a bed of granular material in said borehole adjacent said producing formation, isolating the borehole from upward circulation, continuing the flow of granular material until said washed portion of said borehole adjacent said producing formation has been filled with granular material, raising said pipe string and wash pipe in said borehole to a point substantially above said filled portion of said borehole while continuing the flow of granular material to extend the height of said bed, discontinuing the flow of granular material, flowing a liquid medium downwardly in said borehole through said wash pipe to wash said pipe string and wash pipe downwardly into said bed adjacent said producing formation, and removing said wash pipe from said borehole.

2,652,118
BASKET GUIDE
William Walter Hartman and Robert Alexander Stepa, Los Angeles, Calif.
Application July 25, 1949, Serial No. 106,564
5 Claims. (Cl. 166—13)



1. A basket guide adapted to be mounted on pipe and lowered into a well preparatory to cementing, said basket guide comprising upper and lower collars spaced substantially apart from each other and adapted to embrace and slide along the pipe, outwardly bowed springs fastened to said upper and lower collars to form a guide, a flexible cement catching basket fastened to said lower collar and rising therefrom inside said springs, the wall of said flexible cement catching basket flaring out radially and upwardly to substantially span and seal the space between the pipe and the wall of the well, and a stop adapted to be fastened to the pipe between said upper and lower collars and adapted also to butt against said upper and lower collars, said guide and basket being free to slide a substantial distance along said pipe in both directions such sliding movement being however limited by the butting of said stop against said upper and lower collars.

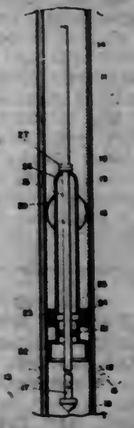
2,652,119
HYDRAULICALLY ACTUATED FISHING TOOL FOR RECLAIMING BROKEN DRILL PARTS, ETC., FROM WELLS
Seth R. Knapp, Elk City, Okla.
Application November 1, 1949, Serial No. 124,832
8 Claims. (Cl. 166—19)

1. A tool for capturing broken drill parts and other junk from a well bore comprising a rotatable casing and supporting structure having a compartment in the lower end thereof provided with a laterally facing window opening therein for receiving junk therethru from the well bore, an open topped laterally collapsible junk receiving basket supported by said structure directly



in said window opening and below the top of said window opening, and nozzle means for forcefully ejecting a stream of water into a well bore at a location below the basket.

2,652,120
OIL WELL CONTAMINATION REMOVING TOOL
James W. Hedges, Beaumont, Tex., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application December 20, 1949, Serial No. 134,011
4 Claims. (Cl. 166—20)



1. A device for removing fouling material from a well having a casing therein with perforations in communication with the desired well formation which comprises a housing, adapted to be moved into and out of the casing, having an open upper end, an apertured valve ring positioned within the housing adjacent its lower end, an elongate tubular member mounted for reciprocation within the housing and extending through the upper open end of the housing and the apertured valve ring, means adjacent the upper end of the tubular member to contact the housing upper end and urge the housing into the casing, a valve plug on the lower end of the tubular member to contact the apertured valve ring when the elongate tubular member is pulled upwardly, there being an apertured area in the housing above the

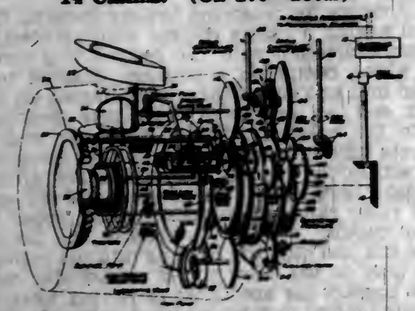
valve ring, an inflatable seal ring secured exteriorly of the housing about said apertured area, the housing having other apertures above the seal ring for supplying pressure to inflate the seal ring and provide a seal between the housing and well casing, and the elongate tubular member having apertures immediately above the valve plug.

2,652,121
HOLLOW PROPELLER BLADE WITH BULBED CORE
Charles M. Kearns, Jr., Wethersfield, Conn., and Glen T. Lampton, Culver City, Calif., assignors to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application June 6, 1950, Serial No. 166,458
2 Claims. (Cl. 170—159)



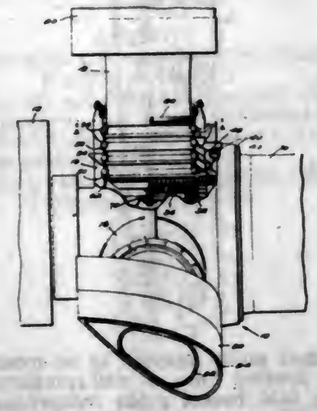
1. In a hollow metal propeller blade having a substantially tubular metal core member forming the load carrying portion of said blade, means for mounting said blade comprising mounting elements formed integrally with the inboard end of said core, said core comprising substantially flattened surfaces located outboard of said mounting elements and extending substantially to the tip thereof, a shell of airfoil shape surrounding said core and comprising a continuous sheet surrounding said core and having its major edges connected together to form the trailing edge of said blade, means for bonding said shell to said core along said flattened surfaces, and means for reducing the deflection tendencies of said blade and increasing the bonded area between said core and shell comprising a bulbed portion of said core adjacent the inboard end of the blade and intermediate the ends thereof, said bulbed portion having a cross-sectional configuration whereby the circumference of said tubular core member is gradually increased relative to the chordwise dimension of the shell in an outboard direction from said mounting elements and subsequently decreased a substantially like amount at a distance outboard along the span of said blade.

2,652,122
PROPELLER PITCH STOP SYSTEM
Melvin E. Longfellow, Manchester, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application May 3, 1950, Serial No. 159,736
14 Claims. (Cl. 170—160.2)



1. In an aircraft propeller comprising variable pitch blades, means for varying the pitch of said blades through positive and negative pitch ranges including a source of power therefor, a first controlling means operatively connected to said pitch varying means for controlling said pitch varying means, means for governing said first controlling means, a servo system comprising a source of servo power, a servomotor and a second control means operatively connected to said servo source of power for controlling said servomotor including operative connections to said governing means, means driven by said servomotor having operative connections to said first controlling means, and means for locking said driven means including an electrically actuated mechanical lock.

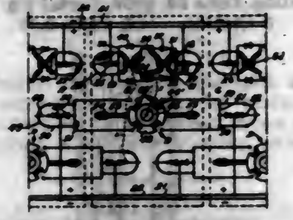
2,652,123
BLADE RETENTION MEANS WITH INCREASED STIFFNESS
Charles M. Kearns, Jr., Wethersfield, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application November 22, 1949, Serial No. 128,260
5 Claims. (Cl. 170—160.58)



1. In a blade mounting for a variable pitch propeller comprising a hub having a blade receiving socket, a plurality of anti-friction members between the blade and said socket for retaining the blade within said socket, means for stiffening said blade against deflections transversely of the axis of said socket including a bearing interposed between said blade and socket outboard of said members relative to the axis of rotation of the propeller, said bearing having its annular thickness less than the annular clearance between said blade and socket by a predetermined amount and normally out of contact with the blade whereby said deflections are restrained above a predetermined amplitude of deflection, and lock means outboard of said stiffening means for retaining the latter within said socket.

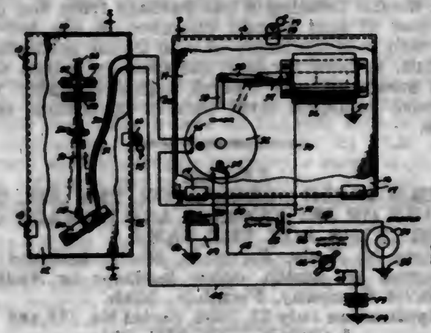
2,652,124
STEERING GEAR FOR TRAILERS
Adelchi Bocci, Florence, Italy
Application February 17, 1948, Serial No. 2,946
In Italy December 11, 1944
3 Claims. (Cl. 180—14)

3. In a governing device for controlling the steering of a trailer from a tractor, the tractor having steering and driving wheels and steering mechanism therefor and the trailer having steering wheels, a ring of highly magnetizable material, driving means for rotating said ring on an axis centrally of the ring at a linear speed proportional to the linear speed of the trailer over the ground, a magnet positioned opposite the ring at a first point on the circumference of the ring, said magnet being pivoted on an axis intermediate its poles, magnet biasing means connected to and actuated by the position of the steering mechanism and biasing the magnet about its pivotal axis in accordance therewith, a second similar magnet positioned opposite a second point of said ring and pivotally supported to be biased under the influence of and in accordance with the strength of the magnetism in the ring as it moves past said second magnet, said second point being located a distance around said ring from said first point proportional to the distance



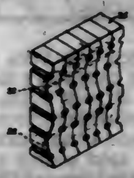
between corresponding axles of adjacent vehicles in the same ratio as the speed of the ring is proportional to the speed of the tractor, said ring being arcuate in cross-section and the magnets being disposed to swing at one pole in the concave side of the ring, split keeper rings enclosing said magnets and having terminals enveloping and closely adjacent the convex sides of said ring, a servo-motor connected to the trailer steering wheels and governed by the biased position of the second magnet and controlling thereby the position of the trailer steering wheels, and a demagnetizing device in operative position relative to said ring in the arc extending from a point adjacent said second magnet to a point adjacent the first magnet and opposite the magnetized portion of said ring.

2,652,125
ENGINE STOPPING DEVICE FOR MOTOR VEHICLES
Joseph F. Dewhirst, Bridgeport, Conn.
Application December 15, 1950, Serial No. 201,390
2 Claims. (Cl. 180—82)



1. The combination with a motor vehicle having a driving engine and means controlling the stopping of said engine, of a normally inert mercury switch member movably supported upon the motor vehicle at a point of support fixed with respect to the motor vehicle, and whereby, when said point of support moves with the transitional movement of the motor vehicle, the gravitational reaction upon said member causes a movement of said member relatively to its point of support, an electrical circuit connected to said member arranged to be open in its inert position and closed in its relatively moved position, timer means having a predetermined operating period and including time delay means arranged to be set in operation upon closing of said circuit, and means operatively connecting said control means to said timer means to cause said control means to stop the engine at the end of said operating period of said timer means.

2,652,126
SOUND-ABSORBING STRUCTURE
Jacob Maser, Germantown, Pa.
Application December 24, 1949, Serial No. 134,923
3 Claims. (Cl. 181—33)



1. A sound-absorbing structure comprising slabs of fibrous sound-absorbing material, each formed of fibrous strips assembled in side-by-side abutting relation for the entry of sound waves between them and the strips having grooves that extend rearwardly from the faces of the slabs, along the opposing faces of the strips.

2,652,127
TAIL PIPE TERMINAL SILENCER
John Gray Johnston, Los Angeles, Calif.
Application September 12, 1950, Serial No. 184,897
1 Claim. (Cl. 181—41)

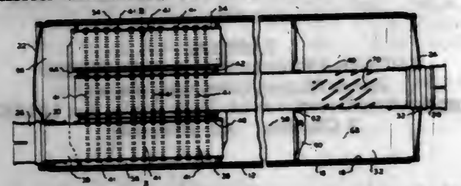


A tail pipe terminal silencer comprising an elongated hollow body having a star-shaped cross-section providing a plurality of longitudinally extending channels in the inside of the body, each channel being V-shaped and having outwardly convergent side walls, and the side walls of each channel at one end portion of said body being flattened and superposed in overlapping relation and constituting a substantially tubular adapter for securing said body to the end of said tail pipe.

2,652,128
RETROVERTED PASSAGE TYPE MUFFLER WITH EXPANSION CHAMBERS
Beecher B. Cary, Jackson, Mich., assignor to Hayes Industries, Inc., Jackson, Mich., a corporation of Michigan
Application August 24, 1950, Serial No. 181,124
1 Claim. (Cl. 181—54)

A muffler comprising an outer casing having heads at opposite ends including an inlet and an outlet, a pair of expansion chambers located in said casing, a retroverted gas flow unit dis-

posed in said casing and located between said chambers, said unit including three tubes, one of which conducts gases from said inlet across one of said expansion chambers and discharges the gases into said other expansion chamber, another of said tubes conducting gases between said expansion chambers, and the third of said tubes conducting gases from the first of said expansion chambers across the second of said expansion chambers to said outlet, sound attenuation chambers embracing said tubes between said expansion chambers, openings defined in the wall



of said tubes within the area embraced by said sound attenuation chambers to acoustically connect the interior of said tubes with the interior of said sound attenuation chambers, a transverse wall common to and constituting one of the end walls for each of said sound attenuation chambers and also defining one of the end walls of one of said expansion chambers, and openings defined in said transverse wall to bring said last mentioned expansion chamber and said sound attenuation chambers into compound acoustic arrangement with each other through said transverse wall.

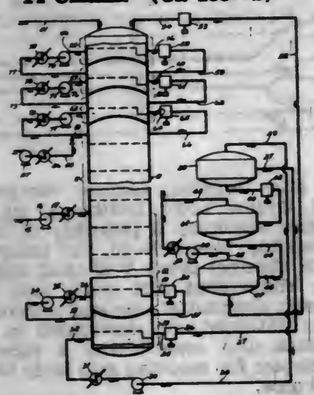
2,652,129

SEPARATION OF MIXED GASES BY ABSORPTION

Manson Benedict, Westfield, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey

Application May 9, 1947, Serial No. 747,619

14 Claims. (Cl. 183—2)



1. In the separation of mixed gases of different solubilities by continuous fractionating absorption in contact with a stream of absorbing liquid under conditions including a pressure effective to cause selective enrichment of the absorbed gases in the more soluble component of the said mixed gases, followed by disengagement of absorbed gas from the absorbing liquid, and return of the lean absorbing liquid for fractionation of said mixed gases, the steps which comprise passing said mixed gases in a fractionating zone under pressure in contacting relation to the absorbing liquid, withdrawing undissolved gas from the absorbing liquid after contact therewith at said pressure, reversibly expanding withdrawn gas to a lower pressure level and at said lower pressure effecting absorbing of the expanded gas in the lean absorption liquid under conditions approaching equilibrium, recovering mechanical work of expanding the gas, and supplying the thus partially saturated absorbing liquid to passage in contact with said mixed gases in said fractionating zone under pressure as said absorbing liquid.

2,652,130

GAS-OIL SEPARATOR

Cedric K. Ferguson, Fullerton, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware

Application June 26, 1950, Serial No. 170,411

6 Claims. (Cl. 183—2.7)



1. A gas-liquid separator for the lower end of the casing of a well comprising means forming a first chamber having an inlet and adapted to receive and accumulate the gas-liquid mixture entering said well, means forming a second chamber adjacent said first chamber and vertically aligned therewith, conduit means connecting said chambers having nozzle means connected thereto adapted to discharge said mixture downwardly and tangentially into said second chamber, a liquid production conduit extending from said second chamber to the top of said well, means forming a gas passage from the upper end of said second chamber to the top of said well independently of said liquid production conduit, a valve for said gas passage means and float means in said second named chamber responsive to liquid level therein to control said valve.

2,652,131

RETRACTABLE SCREEN FOR THE AIR INTAKE OF JET ENGINES AND SHIELDS OR SHUTTERS FOR THE SAME

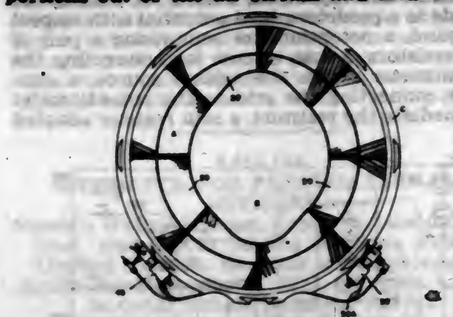
Thomas N. Kelly, Ferndale, Mich., assignor to George W. Smith, doing business as Smith-Morris Company, Ferndale, Mich.

Application July 22, 1950, Serial No. 175,444

4 Claims. (Cl. 183—62)

1. In jet engine installations for airplanes having an annular air intake and a retractible screen for said intake consisting of segmental portions hinged adjacent the outer periphery of the annulus, a shutter for each of said portions and of substantially the same area, said shutter portions being also hinged adjacent said outer periphery, and arranged in advance of said screen

portions, means for actuating said screen portions to move them to and from screening position, means normally maintaining said shutter portions out of the air stream and means actu-



able only when said screen portions are being moved to screening position for releasing said shutter portions so that they can move with said screen portions and thereby close said air intake.

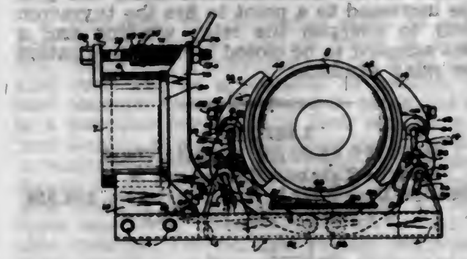
2,652,132

BRAKE MECHANISM

Richard L. Browning, Euclid, Ohio, assignor to Victor E. Browning & Company, Incorporated, Willoughby, Ohio, a corporation of Ohio

Original application October 6, 1943, Serial No. 505,969. Divided and this application February 18, 1949, Serial No. 77,201

5 Claims. (Cl. 188—75)



1. In a brake mechanism, the combination with a frame, spaced supports on said frame and a brake drum rotatably mounted on said frame between said supports, of levers disposed in the plane of said drum and each fulcrumed intermediate its ends on one of said supports, each of said levers terminating at one end in spaced arms having alined bearings, a brake shoe disposed between the arms of each lever in the plane of said drum and adapted to engage and disengage the latter, a boss on the rear side of each of said brake shoes intermediate its ends and formed with a through transverse opening, a device rotatably fitting and extending through the opening in each of said bosses, and extensions on the opposite ends of each of said devices disposed eccentrically to the axis thereof and rotatably mounted in said adjacent bearings, the rotation of each said device serving to adjust the adjacent shoe relative to said drum.

2,652,133

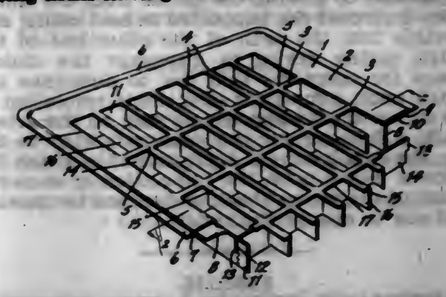
GRILLE

Robert L. Leigh, Coopersville, Mich., assignor to Air Control Products, Inc., Coopersville, Mich.

Application December 23, 1947, Serial No. 793,457

5 Claims. (Cl. 189—62)

1. In a grille, the combination of a face member comprising a front border frame member and crossed sets of spaced parallel grid bars formed integrally with the border frame member and integrally joined at their crossing points, a rear border frame member of angle section disposed on the rear side of the front border frame member with its angle facing rearwardly and outwardly, and with its outwardly projecting arms against the rear side of the front border frame member and fixedly secured thereto, and with its rearwardly projecting arms aligned with the inner edges of the front border frame member, one pair of opposed arms of said rearwardly projecting arms having vertical slots therein aligned



with one set of grid bars, and truss bars disposed edgewise below such set of grid bars in supporting relation to the rear sides thereof and provided with tongues supportingly engaged in said slots in said pair of opposed arms, the reaches of the other set of grid bars having rearwardly turned flanges on at least one edge thereof, another pair of opposed arms of said rearwardly projecting arms closing the space between the outer ends of the rearwardly turned flanges at the ends of said other set of grid bars, the front border frame having rearward offsets therein engaging the outer edges of the outwardly projecting arms of the rear border frame.

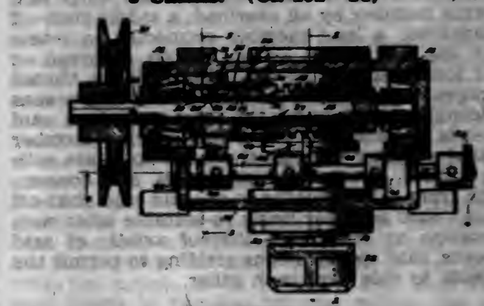
2,652,134

SPRING CLUTCH AND BRAKE

George A. Mentooth, Long Beach, Calif., assignor to The Brunswick-Balke-Collender Company, a corporation of Delaware

Original application March 4, 1949, Serial No. 79,691. Divided and this application February 10, 1950, Serial No. 143,469

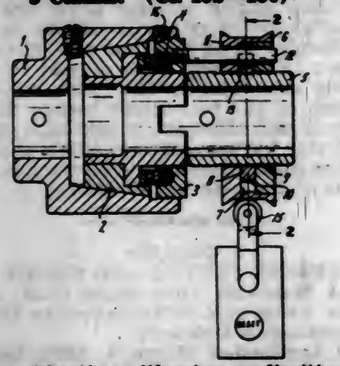
5 Claims. (Cl. 192—14)



1. A gear box comprising a casing, a drive shaft extending transversely of and rotatably mounted within said casing and having one end extending therefrom, a driven shaft rotatably mounted in said casing on an axis transverse to that of the drive shaft and having one end extending from said casing, a worm wheel on said driven shaft, a worm rotatably mounted on said drive shaft and engaging said worm wheel, said worm having a cylindrical surface at one end

thereof forming a clutch face, a tubular member keyed to said drive shaft adjacent the worm and having a cylindrical surface of the same diameter as that of the worm and forming another clutch face, a coil clutch spring device surrounding said clutch faces and adapted when contracted thereagainst to couple the worm to the drive shaft, means anchoring one end of said clutch spring device to the worm, said clutch spring device being so coiled as normally to contract against said clutch faces to drive the worm, the other end of the clutch spring device being engageable to unwrap the device from the clutch faces, a pivoted dog supported in said casing and movable into the peth of the other end of the clutch spring device to disengage the clutch, means for operating said dog to disengage the clutch upon completion of a single revolution of the driven shaft comprising a cam on the driven shaft, a follower for the cam connected to the dog, the cam having a depression into which the follower moves upon the completion of each rotation of the driven shaft, and means for moving said dog to engage the clutch.

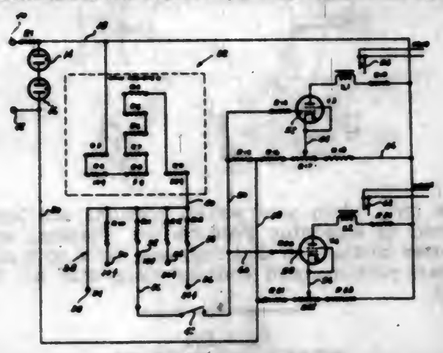
2,652,135
AUTOMATIC SHUTOFF SAFETY CLUTCH COUPLING
Jacob J. Flaten, Lemay, Mo.
Application November 8, 1950, Serial No. 194,653
5 Claims. (Cl. 192—150)



1. In combination with a torque-limiting clutch having a driving member and a driven member releasable from driving engagement with said driving member by an overload, a safety shut-off comprising, a load member connected to rotate with the load driven by said clutch, a thread on said load member, an actuator having a thread engageable with said first thread, spring means yieldingly maintaining the engagement of said threads, connections from said driving member to said actuator to cause the latter to rotate with the former, power shut-off means, and connections from said actuator to operate said shut-off means, said actuator being re-settable after such operation by movement thereof axially of said threads, said spring means yielding to permit the threads to ride over each other.

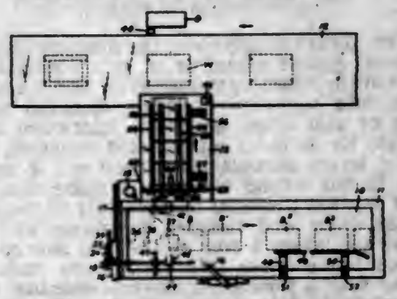
2,652,136
ELECTRONIC COIN TOTALIZER
John F. Merrison, Beverton, N. J., assignor to Rowe Manufacturing Co., Inc., Whippany, N. J., a corporation of New York
Application April 2, 1952, Serial No. 280,427
7 Claims. (Cl. 194—6)

1. An electronic coin totalizer including in combination a thyratron having a grid and an anode and a cathode, a voltage source, a circuit including a relay winding for impressing potential from the voltage source across the anode and cathode of the thyratron, means for biasing the cathode to a predetermined potential with respect to ground, a potentiometer comprising a pair of fixed resistors, a coin circuit for connecting the potentiometer across the voltage source, a conductor connecting the grid to the potentiometer intermediate the resistors, a coin register adapted



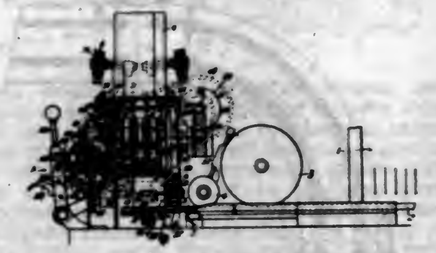
to receive coins, one of said potentiometer resistors being positioned in the coin register to be short-circuited by a coin deposited therein, the construction being such that upon the short-circuiting of one of the potentiometer resistors by a coin deposited in the register the potential impressed by the potentiometer upon the grid will be increased to a point to fire the thyratron whereby to energize the relay winding and a contact adapted to be closed by the energization of the relay winding.

2,652,137
BOX TRANSFER MECHANISM
Monroe Taranto, Ridgewood, N. J.
Application December 11, 1951, Serial No. 260,958
4 Claims. (Cl. 198—31)



1. A device for transferring boxes and the like from a conveyor to an operator's station where the boxes are placed manually on wrappers for transfer to a wrapping machine, comprising a slide member mounted for movement transversely of said conveyor, a bar member mounted for substantially vertical movement on said slide member and movable transversely therewith, a pusher overlying and extending substantially lengthwise of said conveyor, said pusher member being fixed to and movable with said bar member for movement up and down with respect to said conveyor and transversely thereof, a bell crank lever pivotally mounted on said slide member and having one arm pivotally connected to said bar member to move it up and down in response to pivoting movement of said bell crank lever, driving means movable back and forth in a plane transversely of said conveyor and connected to the other arm of said lever to rock it and move the slide member, thereby to cause said pusher member to move through a generally rectangular path in a vertical plane, and means responsive to the presence of a box on said conveyor to initiate operation of said driving means.

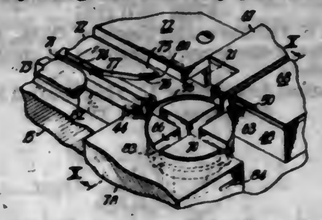
2,652,138
APPARATUS FOR FEEDING RODLIKE ARTICLES
Norman Walter Jackson, Deptford, London, England, assignor to Molins Machine Company Limited, London, England, a British company
Application November 21, 1949, Serial No. 128,528
In Great Britain December 3, 1948
9 Claims. (Cl. 198—33)



6. Apparatus for delivering stubs to a movable member which conveys them in a single line, comprising a conveyor to hold stubs in parallel rows and in a plurality of parallel lines, said conveyor being arranged to move the stubs in a direction transverse to their lengths, a support located adjacent said movable member and arranged to receive stubs from said conveyor, means to transfer stubs from said conveyor to said support, a reciprocable pusher to deliver stubs lengthwise from said support to said movable member, wherein said pusher comprises as many separate pusher faces as there are stubs in a row, the said faces being arranged so as each to be engageable with one of a number of stubs transferred to the support which stubs are offset from each other lengthwise by at least a stub length and laterally by at least the width of a stub, and wherein the said pusher is arranged to move in a feeding stroke a distance substantially equal to the length of a stub so as to move each stub on the support one stub length toward the movable member and thereby at each feeding stroke to cause a number of stubs equal to the number of said pusher faces to be delivered as a single line to the movable member.

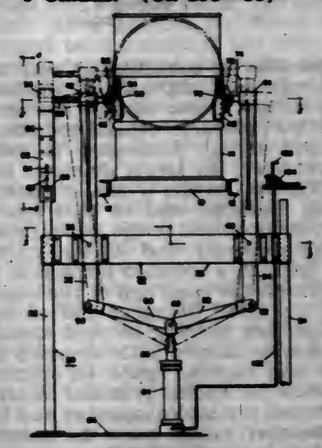
2,652,139
FEEDER
Sylvester C. Bachr, Cheektowaga, and Alexander D. Rembieff, Kenmore, N. Y., assignors to Wiesner-Rapp Company, Inc., Buffalo, N. Y.
Application January 15, 1952, Serial No. 266,578
19 Claims. (Cl. 198—33)

1. A feeding device for irregularly shaped articles, comprising a turntable, means for feeding articles to said turntable, a discharge chute to receive articles from said turntable, intermittently-actuated turning means engageable with the articles when disposed in the turntable to actuate the turntable to correctly position the articles for subsequent feeding therefrom, and means for ejecting the correctly positioned arti-



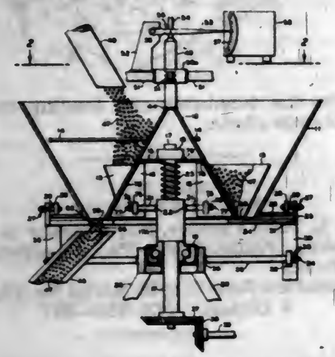
cles from the turntable and feeding them into the discharge chute.

2,652,140
DRUM TUMBLER
Chester L. Hall, Chester, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application June 7, 1952, Serial No. 292,317
9 Claims. (Cl. 198—33)



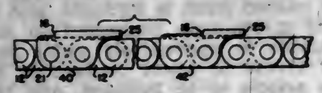
8. A portable receptacle-tumbling apparatus for use in combination with a conveyor, comprising a supporting frame, a transverse member carried by the frame and extending under the conveyor when the apparatus is in operative relation with the conveyor and vertically slidable on the frame, upright levers pivotally mounted on the frame and extending above and on opposite sides of the conveyor, laterally extending turnable shafts carried by said levers, gripping shoes pivotally mounted on the inner ends of said shafts, a pulley secured to the outer end of one of said shafts, a belt secured to and wound about said pulley and a connection from the belt to the frame, a spring opposite ends of which are connected to the pulley and the lever in which said last named shaft is turnable, and manually controlled mechanism connected to said levers and operable to successively swing said levers on their pivots to effect contact of the shoes with the article to be tumbled, and then raise said levers to thereby lift the pulley, the belt secured thereto then unwinding to turn the pulley, the shaft secured thereto and the shoe through the arc required to tumble the article and also imposing tension on the spring; said spring, in the downward movement of the lever carrying said pulley shaft, turning said shaft and the shoe carried thereby in the reverse arcuate direction and then in the swinging movement of said levers on such transverse member retracting the shoes.

2,652,141
CONTINUOUS WEIGHING MECHANISM FOR SOLIDS
Forrest E. Gilmore, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application September 15, 1950, Serial No. 185,086
4 Claims. (Cl. 198—39)



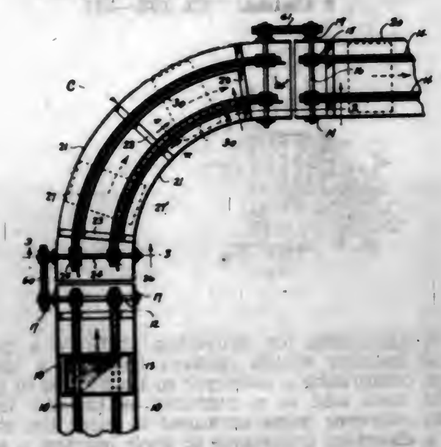
4. Apparatus for continuously weighing granular solid material comprising, in combination, an inverted hollow frusto-conical member, an upright hollow rotatable conical member disposed within and rigidly connected to said frusto-conical member, the larger diameter end of said conical member having a smaller diameter than the small diameter end of said frusto-conical member, the open end of the conical member and the small diameter end of the frusto-conical member lying in a common horizontal plane, the space between the open end of the conical member and the small diameter end of the frusto-conical member forming an open annular space, a nonrotatable closure plate disposed below and adjacent said annular space, an opening in said plate, means for adding granular material to the space between the conical member and the frusto-conical member, means below the opening in said closure plate to receive granular material, a rotatable shaft coinciding with the axes of the conical members, said shaft adapted to rotate said conical members, power means for rotating said shaft, a compression spring adapted to support said conical members as a rotatable assembly and granular material to be weighed, and an indicator responsive to vertical movement of said assembly.

2,652,142
ENDLESS CHAIN AND MEANS OF MAKING SAME
George L. Oswalt, Forest Park, Ill.
Application April 4, 1950, Serial No. 153,890
2 Claims. (Cl. 198—176)



1. An endless link chain having a plurality of generally elliptical links with each link having a pivot pin bearing adjacent its opposite ends, lug-bearing links in series with said first-mentioned links, each lug-bearing link having a body portion of generally oblong shape and having pivot pin bearings adjacent opposite ends of the link, an integral flange at one longitudinal edge of the body portion extending substantially at right angles to said body portion to constitute a lug, with said lug also extending longitudinally beyond said body portion whereby the lug may closely overlie longitudinal edge portions of at least one succeeding link, the end edge of said body portion, adjacent said longitudinal extension of said lug, itself extending longitudinally into connection with said lug by a portion having an outline complementary to the adjacent edge of a succeeding link, and an object engaging face on said lug, said face being disposed closely above said longitudinal edge of said link and to either side of a transverse plane which intersects the link midway between the pivot bearings.

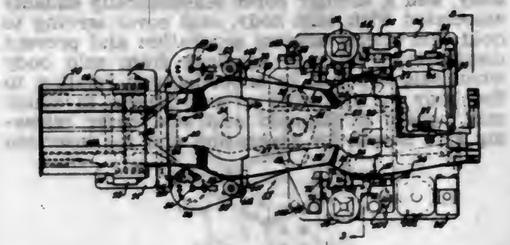
2,652,143
CHAIN CONVEYER
William Louis Van Doren, Wenatchee, Wash.
Application February 3, 1951, Serial No. 209,990
6 Claims. (Cl. 198—183)



1. A sprocket chain belt of the character described comprising a succession of standard links of the same pitch line length, joined end to end by link sets with a like pitch line length; each standard link comprising equal opposite side plates, and parallel pivot pins extended through the ends of said side plates in spaced relationship; each of said link sets comprising an outside link and an inside link, which at their opposite ends are joined to the ends of the pivot pins of the standard links which they connect, and which, respectively, are longer and shorter than the pitch line length of the standard links and establish a uniform arcuate curvature to any run of the chain operating in a plane that is parallel to the plane of the hinge axes of the links in said run.

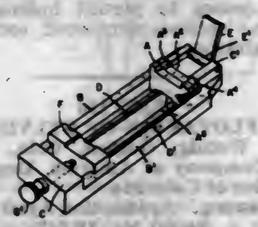
2,652,144
SELF-LOADING DEVICE FOR SHAKER CONVEYERS
William W. Sloane, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application June 15, 1950, Serial No. 168,278
5 Claims. (Cl. 198—220)

1. In a self-loading device for shaker conveyors and in a swiveled conveyor trough line including a base which is held against movement with respect to the ground during reciprocation of the conveyor and having a reciprocably swivelable trough section connected to said base for laterally swinging movement with respect thereto; a frame mounted for slidable movement along the ground at its inby end and having an articulated connection with said base at its outby end; the combination therewith of means comprising an hydraulic system including a tank and an accumulator and a pump all mounted on said base, said pump having an operating connection with said trough line and being operable upon reciprocation of said trough line for supplying fluid under pressure to said accumulator, fluid pressure operated winding devices mounted on said frame adjacent the outby end thereof and on opposite sides of said swivel trough line for swinging movement therewith, flexible draft de-



vices wound on said winding devices, means training said draft devices from opposite sides of the inby end of said frame for laterally swinging said frame when said draft devices are anchored to laterally disposed abutments, means including a control valve and an operator therefor mounted adjacent the inby end of said laterally swingable frame for controlling the flow of pressure fluid to one or the other of said fluid motors, and valve means operable by the swinging movement of said frame to an extreme limit of travel in either direction to bypass pressure fluid normally supplying one of said fluid motors to tank.

2,652,145
MATRIX ASSEMBLY STICK
Anton N. Lewandoski, Detroit, Mich.
Application June 27, 1949, Serial No. 101,545
2 Claims. (Cl. 199—1)



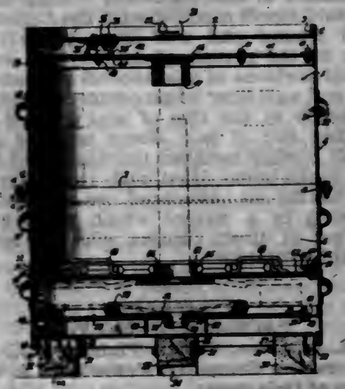
1. A matrix stick comprising an oblong rectangular rigid frame including end heads and opposite side bars spaced to receive the matrices therebetween, a pair of bars extending longitudinally over a transverse side of said frame between said side bars and forming aligned seats for the face edges of said matrices on opposite sides of the intaglio portions thereof, said bars being exchangeable and having end portions for engaging fixed bearings on said frame, and intermediate portions of selected width to adjust the width of space therebetween in correspondence with the width of the intaglio portion of said matrices, a bar for engaging the opposite edges of said matrices when assembled in said frame to hold the same against said seats, and an adjustable head on said frame for clamping the series of assembled matrices, the whole forming a unit operatively engageable with a casting machine of the Ludlow type.

2,652,146
SHIRT PACKAGING DEVICE
Stephen Lighter, Whitefish Bay, Wis., assignor to Sutherland Paper Company, Kalamazoo, Mich., a corporation of Michigan
Application August 30, 1951, Serial No. 244,424
4 Claims. (Cl. 206—7)



1. In a shirt packaging device, a unitary sheet of stock provided with upper and lower transverse hinges dividing the sheet into an upper and a medial and a lower panel, the medial and lower panels being formed for direct coaction with the upper back portion of the shirt and the upper panel being formed to swing about said upper hinge forwardly over the shirt collar and shoulders and against the collar lapels and upper bosom of the shirt, a tongue projecting from the upper mid-portion of the medial panel and being formed for insertion beneath the rear of the shirt collar, and a flap connected by a second upper transverse hinge to said medial panel below said tongue, said lower panel being swingable upwardly and rearwardly about said lower hinge toward said medial panel to fold the shirt bottom upwardly against the back and said flap being subsequently swingable downwardly over the folded bottom and back of the shirt about said second upper hinge and having its lower end formed for attachment to the lower portion of said upper panel to complete the package.

2,652,147
SHIPPING CONTAINER FOR TURBINE WHEELS
Jack Jenkins and Irvin R. Beren, Dallas, Tex., assignors to Frontier Manufacturing Company, Dallas, Tex., a corporation of Texas
Application March 7, 1951, Serial No. 214,296
7 Claims. (Cl. 206—46)



1. Special package comprising in combination, a turbine wheel and shaft, and a shipping container therefor comprising a cylindrical shell and top and bottom heads defining a chamber, trans-

verse, spaced, centrally apertured supports adjacent said bottom head secured within said shell, at least the upper of said supports being removable, cushion means on the confronting faces of said supports, said turbine wheel being positioned between said supports with the shaft extended upwardly through the upper of said supports and being clampably held between said cushion means, out of contact with the rigid structure of said container, when said supports are secured.

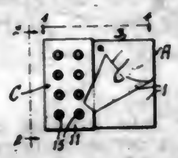
2,652,148
COMBINATION PACKAGE
George T. Pfeifer, Lake Geneva, Wis., assignor to The Edwal Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application December 9, 1949, Serial No. 132,133
4 Claims. (Cl. 206—47)



3. A combination sealed package comprising a rigid container having a sleeve member and end wall members closing the opposite ends of said sleeve member, a first sack formed of a stretchable impermeable film material lining said sleeve member for a part of its length with the margin of the mouth of said first sack overlying the peripheral edge of one end of said sleeve member, a liner of stretchable film material lining the end wall member of said container closing said one end of said sleeve member with the marginal edge of said end wall liner overlying said margin of the mouth of said first sack, said marginal portions of said first sack and of said end wall liner being compressed into sealed relationship at the line of seal formed between said one end of said sleeve member and said end wall closing member therefor, a second sack formed of a stretchable impermeable film material lining the portion of said sleeve member not lined by said first sack member and having its bottom abutting the bottom of the first sack, the margin of the mouth of said second sack underlying the peripheral edge of the other end of said sleeve member, a liner of stretchable film material lining the end wall member of said container closing said other end of said sleeve member with the marginal edge of said second end wall liner underlying said margin of the mouth of said second sack, said marginal portions of said second sack and of said second end wall liner being compressed into sealed relationship at the line of seal formed between said other end of said sleeve member and said end wall closing member therefor, said first and second sacks being filled with two different materials having an associated use and both materials being of a nature which must be maintained out of direct contact with the interior of said rigid container.

2,652,149
PACKAGE MEMO PAD
John R. O'Meara, Scotch Plains, N. J., assignor to Ivers-Lee Company, Newark, N. J., a corporation of Delaware
Application January 17, 1952, Serial No. 266,830
2 Claims. (Cl. 206—47)

1. A package comprising an envelope formed of superposed layers of thin flexible sheet material sealed together and having at least one article sealed between said layers, a plurality of loosely superposed thin flexible sheets forming a body of a thickness greater than that of said article, said sheets having openings cooperating in corresponding zones of the sheets to provide a pocket for said article and said sheets being secured together along at least one edge to provide for lifting and separating of said sheets individually from an edge thereof, said envelope being removably inserted between two of said sheets intermediate the thickness of said body, and a tubular cover telescopically slidably associated with said body, said cover serving to hold said sheets against separation and prevent displacement of said envelope from said body when said cover is in encompassing relation to the body at the zones of said sheets in which said pocket is disposed and said cover releasing said sheets for separation and for insertion



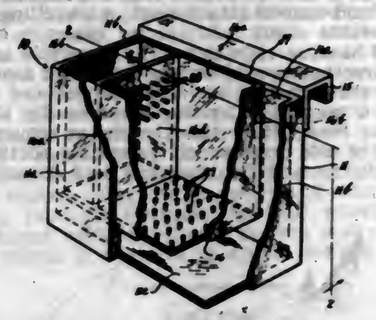
or removal of said envelope when the cover is withdrawn from said encompassing relation to the body, said flexible sheets having other zones extending from the first-mentioned zones capable of receiving indicia and coacting with each other to provide a support on the body for said cover, said cover being pre-formed and rectangular shaped in transverse cross section, said cover also being of a length to substantially cover the portion of the body in which said pocket is disposed and at the same time leave the other portions of the body uncovered to provide for the sliding withdrawal of the tubular cover along the body from the first-mentioned portion thereof onto the second-mentioned portion, said sheets being of tearable material to provide for severability of the sheets between said first-mentioned and said second-mentioned zones to permit individual detachment of the second-mentioned zones from the respective sheets.

2,652,150
FROTH FLOTATION OF SYLVINITE ORE
Arthur J. Weinig, Golden, Colo., assignor to Potash Company of America, Denver, Colo., a corporation of Colorado
No Drawing. Application April 3, 1948, Serial No. 18,847
17 Claims. (Cl. 209—166)

1. In a process for the separation of sylvite and halite by froth flotation from a saturated pulp of the ore, the improvement which comprises adding to the pulp a brine soluble salt of 2,4-dichlorophenoxyacetic acid.

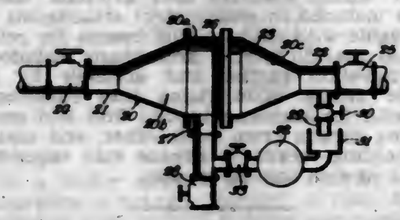
2,652,151
FILTER
Paul L. Legus, Tacoma, Wash.
Application September 23, 1950, Serial No. 186,458
1 Claim. (Cl. 210—124)

A compartmented aquarium filter of the character described comprising a plastic container and a plastic insert unit removably disposed therein; said container forming a water receiving compartment and said insert unit being divided into two parts and forming a water filtering compartment and a discharge compartment; the filtering compartment being adapted to receive a filtering medium therein and a passage through the bottom thereof whereby water rising in the receiving compartment flows upwardly into said filtering compartment and through the filtering medium, said filtering compartment having a passage in the upper portion of the side wall



between the discharge compartment through which filtered water will flow into the discharge compartment subsequent to rising through the filtering medium; the side walls of the container being formed with vertically recessed inner surfaces terminating above the bottom of the container and forming a horizontal ledge on which the insert unit is removably disposed.

2,652,152
FILTRATION METHOD
Charles A. Frankenhoff, Scarsdale, N. Y.
Application June 9, 1949, Serial No. 98,974
5 Claims. (Cl. 210—131)



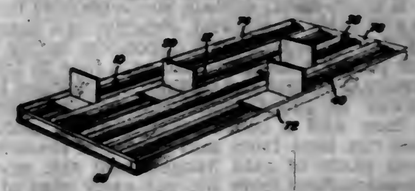
1. A filtration process which comprises forming a suspension of particles of varying size of a high flow capacity filter aid in a suspending liquid, passing said suspension in a flow path across which is interposed a filter medium, maintaining a flow rate not substantially less than about 150 gallons per hour per square foot of filter medium area whereby to provide a fluid velocity at the upstream side of said filter medium such that settling or segregation of the suspended filter aid particles is prevented and said particles are thereby deposited on said filter medium with substantially uniform particle size distribution whereby to form on said filter medium a substantially homogeneous filter cake having a substantially uniform flow resistance which is at all times greater than the flow resistance of said filter medium, said flow path being substantially unobstructed on the downstream side of said filter medium whereby back pressure is avoided at the outlet side of said filter medium at said flow rate and whereby said filter cake constitutes at all times the controlling resistance to flow in the system.

2,652,153
PIPE LINE STRAINER
Aimilio Perrault, Tulsa, Okla., assignor to Jackson L. Culbertson, Tulsa, Okla.
Application September 2, 1950, Serial No. 182,964
1 Claim. (Cl. 210—167)
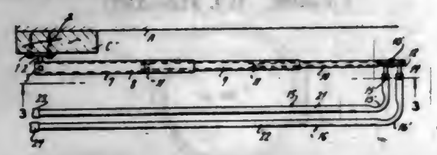


A pipe line strainer unit, comprising a cylindrical housing having fluid inlets and outlets, a perforated strainer basket removably supported in the housing, a removable cover on the upper end of the housing, a plain bearing carried in the cover, a shaft extending through the basket and into the plain bearing, a power wheel keyed on the shaft above the basket and adjacent the fluid inlet to rotate the shaft, a plurality of brushes carried by the shaft for sweeping the inner periphery of the basket upon rotation of the shaft, a bearing housing telescopically disposed on the lower end of the shaft, stop means on the lower end of the shaft to preclude inadvertent removal of the bearing housing, a downwardly facing shoulder on the shaft disposed within the bearing housing, a bearing unit between said shoulder and the bearing housing to facilitate rotation of the shaft, and a spider in the lower portion of the cylindrical housing to removably receive the bearing housing, said bearing housing and spider having complementary grooves and flanges to preclude rotation of the bearing housing during rotation of the shaft.

2,652,154
DISPLAY RACK
Carl L. Stevens, Grand Island, Nebr., assignor of fifty per cent to John F. McCarthy, Grand Island, Nebr.
Application December 27, 1949, Serial No. 135,191
3 Claims. (Cl. 211—49)



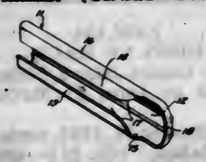
1. A sectional display and dispensing apparatus comprising: a base which includes a plurality of separable sections; means operatively connected with said sections for fastening said sections together in side-by-side relationship; at least one of said sections comprising a pair of sheet material plates; brackets secured to said plates at the front and rear ends thereof holding said plates in spaced relationship thereby forming a slot between said plates; a follower disposed in said slot; and resilient means secured to one of said brackets and to said follower constantly urging said follower toward one end of said slot; each of said plates having a vertical upstanding side wall; and said sections fastening means comprising channels at the upper edges of some of said side walls disposed in nested relationship with the other of said side walls; end and side panels for said sections; and one of said channels being disposed on the upper edge of said side panels.

2,652,155
CURTAIN SUPPORT
Ethel L. Potter, St. Louis, Mo.
Application May 16, 1952, Serial No. 288,106
3 Claims. (Cl. 211—105.3)



1. For use with room windows, a curtain support comprising a pair of brackets adapted for attachment in spaced relation on a window casing, an upstanding hook carried on each of said brackets, a pair of support arms, each of said support arms comprising a plurality of telescopically fitted sections having inner and outer ends, each of said support arm sections having upper and lower flanges and being further provided with aligned apertures in said flanges adjacent said inner ends for securement of the innermost section upon the hooks of different brackets whereby said support arms are presented for lateral extension beyond the window casing on opposite sides thereof, and a curtain rod secured at its ends to the outer ends of the outermost support arm sections.

2,652,156
CURTAIN ROD
Edward J. Dubiell, Wallingford, Conn., assignor to H. L. Judd Company, Wallingford, Conn., a corporation of Delaware
Application December 2, 1949, Serial No. 130,788
3 Claims. (Cl. 211—105.3)



1. A sheet-metal curtain rod integrally formed with a thimble at one end, comprising a substantially flat front face with oppositely facing bent flange portions integral with said face to form a generally C-shaped rod section, said flanges, being cut-away at the thimble end substantially to said face, and a continuously formed uninterrupted rim bent from said face and toward the general plane of said flanges, said rim extending continuously from the cut-away edge of one flange and continuously skirting the thimble end of said face and continuously joining the other of said flanges, whereby said thimble end may be perfectly smooth and continuous with the remainder of said rod so that curtain material will not snag or catch either in the process of threading onto or removal from said rod.

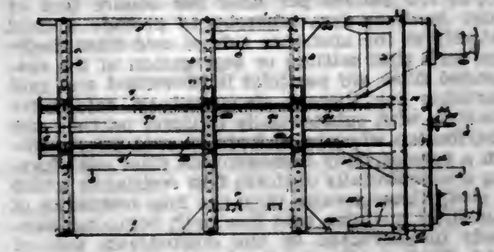
2,652,157
OVERHEAD LOG CARRIER
Jakob Wyssen, Reichenbach, Kandertal, Switzerland
Application May 14, 1947, Serial No. 747,956
In Switzerland April 13, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires April 13, 1960
6 Claims. (Cl. 212—96)

1. An overhead carrier of the class described, comprising: a carrier cable; a control attachment freely movable along said cable; a mooring cable connected to said control attachment for fixing the position thereof along said carrier cable; gripping means included in said control attachment and engageable with said carrier cable, said gripping means having a surface whereby said gripping means may be actuated to grip said cable; a first coupling means carried by said control attachment; a travelling carrier movable along said carrier cable; a hoisting and hauling rope extending generally in the same direction as said carrier cable and movably passing through said travelling carrier and comprising a portion extending downwardly therethrough; load lifting shackle means secured to the end of said downwardly extending portion of said hoisting and hauling rope and comprising



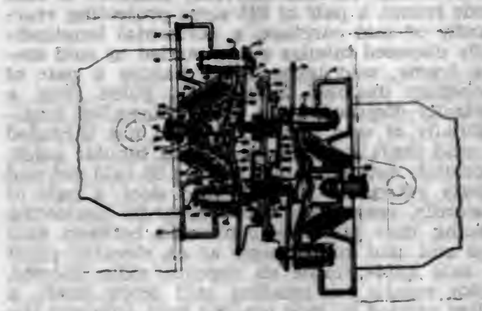
an engageable portion; releasable holding means disposed in said travelling carrier and engageable with said engageable portion of said shackle means for supporting the same during movement of said travelling carrier along said carrier cable; a second coupling means disposed on said travelling carrier and engageable with said first coupling means; means carried by said travelling carrier which actuates said gripping means; means included in said control attachment and engageable with said holding means for releasing said shackle means; and means included in said traveling carrier and actuable by said shackle means upon rising into engagement therewith for disengaging said first and second coupling means from each other and causing said holding means to engage said engageable portion of said shackle means.

2,652,158
RAILWAY CAR CONSTRUCTION
Sigvard Simonson, Butler, Pa., assignor, by mesne assignments, to Waugh Equipment Company, New York, N. Y., a corporation of Maine
Application August 4, 1949, Serial No. 108,635
11 Claims. (Cl. 212—8)



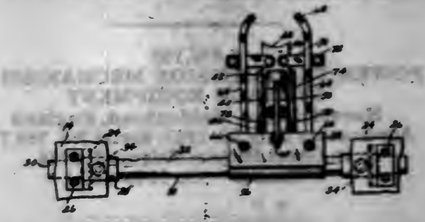
1. In a railway car, laterally spaced side sill members extending longitudinally of the car and interconnected by cross bearers to form an underframe for supporting the car body and its lading, spring holding means and guide members secured to and depending from opposite sides of said underframe near each end for mounting the underframe on the car wheel axles, a rigid draft and buffing column extending substantially the length of the car body and mounted for longitudinal movement relative thereto, column supporting means extending transversely between said side sills and underneath said column whereby the column is slidably supported by and between said side sills, couplers mounted at the ends of said column, cushioning means interposed between said column and underframe for yieldingly resisting relative longitudinal movement therebetween in either direction, and resilient buffers mounted at the ends of the car, said buffers being compressible and said column being movable inwardly on buff whereby the combined capacity of said buffers and cushioning means is effective to absorb buffing shocks.

2,652,159
BUFFER MECHANISM FOR RAILWAY VEHICLES
William J. Metzger, East Cleveland, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Application June 21, 1950, Serial No. 169,258
23 Claims. (Cl. 213—221)



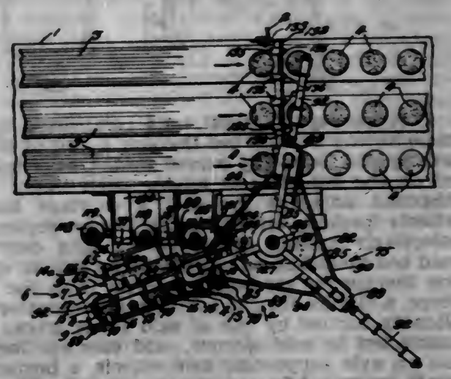
17. A buffer mechanism for railway vehicles comprising a housing member, a plate member carried by said housing member and movable inwardly thereof, resilient means within said housing member for opposing said inward movement of said plate member, stop means carried by said housing member and engaging said plate member to limit outward movement of the latter, a follower member carried by said housing member and movable inwardly thereof, auxiliary spring means for opposing said inward movement of said follower member, said follower member having a rear buffing portion spaced forwardly of said plate member and adapted to engage said plate member upon inward movement of said follower member, means on said follower member for engaging said stop means to limit outward movement of said follower member, said follower member being initially movable inwardly solely against said auxiliary spring means until said buffing portion engages said plate member and thereafter said plate and follower members being movable inwardly together as a unit, and a buffer plate in wedging engagement with the forward side of said follower member, said buffer plate being flexibly secured to said follower member to allow transverse movement of said buffer plate relative to said follower member.

2,652,160
PIPE HANDLING DEVICE
Bernie P. La Mulle, New Orleans, La., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application September 18, 1948, Serial No. 49,940
2 Claims. (Cl. 214—2.5)



1. A device adapted to be attached to a platform in a well derrick equipped with an elevator for engaging and lowering pipe stands into a well bore, comprising a supporting shaft mounted on said platform, a bracket slidably mounted on said shaft, means for securing said bracket rigidly to said shaft at a predetermined position along the length of the shaft, a pair of pipe engaging fingers pivotally mounted on said bracket and extending toward the center of the derrick, a sleeve member secured to said bracket between said fingers, a ram slidably disposed in said sleeve member and adapted to engage a pipe stand previously positioned between the fingers, spring means in said sleeve tending to force said ram and pipe stand outwardly of said fingers, latch means adapted to engage and hold said ram in its retracted position, and a linkage connecting each of said fingers with said ram so that when the ram is latched in its retracted position the outer ends of the fingers will engage and hold the pipe stand against the projecting end of the ram and when the latch is released the spring will force the ram outwardly, disengaging said fingers from the pipe stand and forcing the pipe stand toward said elevator.

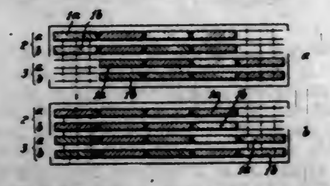
2,652,161
METHOD OF AND APPARATUS FOR REMOVING STACKED ARTICLES
Leonard A. Herzig and Martin Cean, Jackson Heights, N. Y., assignors to A. Richard Stern, San Diego, Calif.
Application February 4, 1950, Serial No. 142,518
28 Claims. (Cl. 214—8.5)



1. In the packaging of air-pervious articles such as pharmaceutical applicator pads, the method which comprises arranging such articles in a stack interleaved with relatively impervious

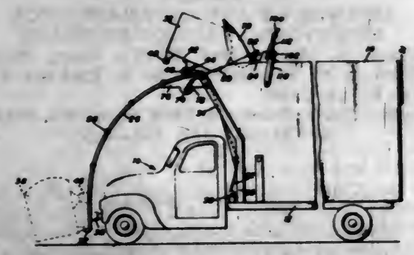
spacers, applying suction to the end of said stack to attract and detach the end article and adjacent spacer, moving the detached article and spacer forward while holding same under suction, detaching the spacer from said moving article, and then removing the suction from said article to release same.

2,652,162
POWER TRANSMISSION MECHANISM IN STORAGE EQUIPMENT
Harold Anger, Maidenhead, England
Application July 30, 1947, Serial No. 764,779
In Great Britain August 7, 1946
7 Claims. (Cl. 214—16.1)



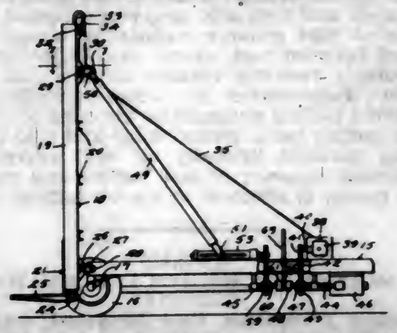
1. In combination, in storage apparatus of the circulating loop type having a loop and load-carrying platforms which are circulated around said loop, and having main tracks for said platforms: a cross-over mechanism for transferring said platforms from one of said main tracks to another, said cross-over mechanism comprising a cross carriage for said platforms and a drive for said carriage, a power-driven collector advancing said platforms along said main tracks, a coupler selectively engaging and disengaging said platforms with and from said collector, and a second power-driven actuator simultaneously operating both said carriage drive and said coupler.

2,652,163
GARBAGE DISPOSAL UNIT
Arwood D. Stickney, Missoula, Mont.
Application May 29, 1950, Serial No. 164,975
7 Claims. (Cl. 214—518)



1. A garbage disposal unit comprising a vehicle having a dump bed thereon, a pair of downwardly and forwardly curved guide tracks mounted on the vehicle and having their upper ends disposed adjacent the bed, a carriage having wheels tracking on said guide tracks, means for selectively raising and lowering said carriage, said bed including an upper wall having an opening therein for receiving material from the carriage, a closure for the opening, an actuating rod slidably carried by one of said guide tracks and connected to said closure, said carriage including an axle supporting said wheels, a horizontal shaft journaled for rotation on one of said guide tracks, a contact arm mounted on one end of said shaft and positioned between said guide tracks to be engaged by said axle during raising of said carriage, and a link on the other end of said shaft pivoted to said rod to impart sliding movement to said rod for raising the closure as the shaft is rotated by the axle engaging the contact arm.

2,652,164
LUMBER HOIST TRUCK
Jake B. Tipps, Laurel, Miss.
Application October 16, 1950, Serial No. 190,230
1 Claim. (Cl. 214—672)



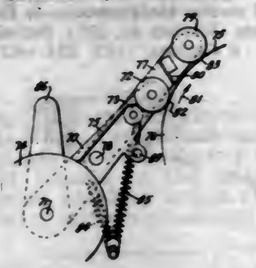
A material handling device comprising a mobile frame, an elongated upright guide frame, oppositely disposed tracks on said guide frame, means pivotally securing the lower end of said guide frame to the rear of said mobile frame, an elevatable carriage movably disposed in said guide frame, a pair of lift arms projecting rearwardly of said carriage, a horizontal longitudinally disposed tubular guide carried by said mobile frame, said latter guide having a pair of oppositely disposed longitudinal guide slots, a centrally disposed screw shaft journalled longitudinally of said tubular guide, a nut threaded on said shaft and slidable in said tubular guide, oppositely extending pins carried by said nut and loosely extending through said slots, a pair of upwardly, rearwardly and outwardly projecting bracing bars pivotally connected between said pins and said guide frame at an elevated point on said guide frame on opposite sides thereof, motor means for rotating said screw shaft, a pulley carried by said bracing bars adjacent the pivoted connection to said guide frame, a second pulley carried by the upper end of said guide frame, a motor driven winch, a cable extending from said winch about said pulleys connected to said carriage for moving said carriage up and down in said frame and clutch means for reversing the direction of rotation of said screw shaft.

2,652,165
RUPTURABLE CROWN CAP
David L. Wesner, Santa Ana, Calif.
Application November 13, 1950, Serial No. 195,249
2 Claims. (Cl. 215—46)



2. As a blank for the manufacture of a crown cap: a circular disc having a circular central portion for closing the mouth of a bottle or like container, and having a marginal portion adapted to be crimped as a flange to engage the rim of said container mouth and a tab extending radially from said marginal portion, said disc having indentations forming two lines of rupture extending in alignment with the sides of said tab across said marginal portion and then extending into said central portion at a sharp angle to said tab so as to form abrupt angles of departure at the inner edge of said marginal portion and convergently, proximately following one side of said central portion to a point on the edge of said central portion diametrically opposite to said tab.

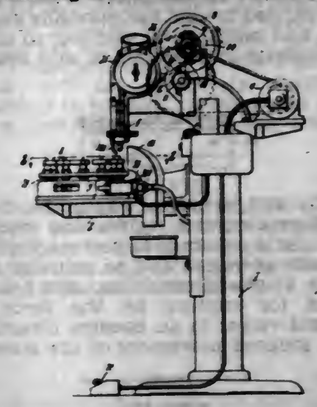
2,652,166
TAPE APPLYING MOVEMENT
Arnold E. Johnson, New Canada Township, Ramsey County, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application May 29, 1950, Serial No. 165,625
4 Claims. (Cl. 216—21)



1. In a tape applying machine, an applying movement of the character described comprising a pivoted arm, a roller rotatably mounted at the free end of the arm for conducting tape into adhesive engagement with the surface of an object being taped at a tape applying station, a second roller rotatably mounted on the arm adjacent the first roller, a second pivoted arm adjacent the first arm, a third roller rotatably mounted at the free end of the second arm, a passive tape severing means on the second arm near the free end of the arm, means for impelling the free end of the first arm toward the station with a length of tape extending between the first and second rollers, the non-adhesive side of the tape facing the periphery of the first roller, means for impelling the free end of the second arm toward the station, and means for impelling the free end of the first arm away from the station after a length of tape has been applied to the object, to bring the tape into operative engagement with the passive severing means at a point between the first roller and the object.

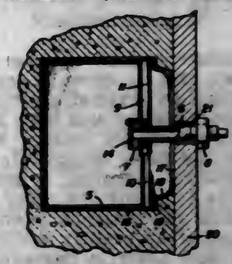
2,652,167
AUTOMATIC RIVETING MACHINE
Arthur R. Havener, Wayland, Mass., assignor to Judson L. Thomson Manufacturing Company, Waltham, Mass., a corporation of Massachusetts
Application December 29, 1949, Serial No. 135,785
7 Claims. (Cl. 218—3)

1. In a riveting machine, rivet-driving mechanism, a plurality of anvils mounted for successive presentation to said mechanism, means for moving said anvils successively to presenting position, certain anvils not in presenting position being accessible for receiving parts to be riveted by said mechanism, means for actuating said driving mechanism, means controlled by said actuating means after a rivet driving action to activate said anvil-moving means to present the succeeding anvil into cooperative relation to said driving mechanism, an adjustable time delay mechanism, and means operatively connected to said anvil moving means and said driving mecha-



nism, and controlled by said time delay mechanism, said time delay mechanism determining the time interval between the presentation of an anvil and the actuation of said driving mechanism to set parts carried by said presented anvil.

2,652,168
TEMPORARY OUTLET BOX MOUNTING FOR USE WITH CONCRETE FORMS
Clinton G. Nelson and Ralph W. Hayden, North Richland, Wash.
Application May 6, 1949, Serial No. 91,802
3 Claims. (Cl. 220—3.4)

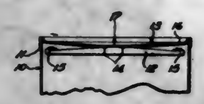


1. Means for supporting a receptacle having an apertured front and at one side of an apertured support, said means comprising a valve stem insertable through said apertures to extend inwardly and outwardly of the receptacle and support, a cross member on said valve stem positionable in said receptacle behind said front and slidable on the stem to press said front against said side of the support, means on said stem engageable with the opposite side of the support to prevent said stem from movement inwardly of the receptacle, and an inflatable bag on said stem positionable in the receptacle for inflation through said stem to expand against said receptacle and cross member.

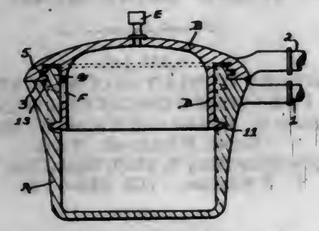
2,652,169
HAND PRESSURE RELEASED CONTAINER OPENING
Paul E. Brusiewski, Ramona, Calif.
Application February 24, 1948, Serial No. 10,296
5 Claims. (Cl. 220—24)

5. A container closure of the character described, comprising a flexible circular wall, a

bar extending diametrically across said wall, means securing said bar near its center to the central portion of said wall, said wall having a pair of openings positioned opposite the ends of the bar and near the periphery of the wall, a pair of valves carried by said bar normally closing said openings and movable by said bar to open position in response to deflection of said central portion of the wall, a pair of rupturable fluid tight bonds integrating said valves and said flexible wall about said openings to prevent fluid passage through the openings and to initially maintain the valves in closed condition, said bonds being preformed for rupture by the force exerted against said valves in an opening direction upon said wall induced movement of the member.



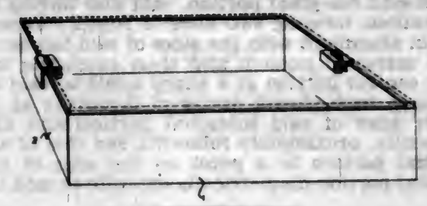
2,652,170
PRESSURE COOKER
William Lotter and Minna Lotter, St. Louis, Mo.
Application April 25, 1947, Serial No. 743,992
2 Claims. (Cl. 220—40)



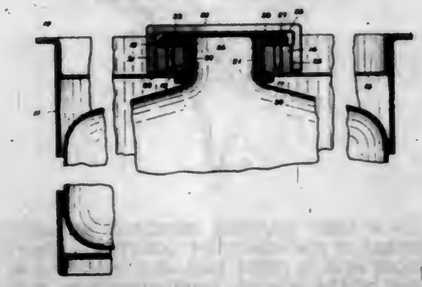
1. In a pressure cooker, a lower body having an open upper end, a cover therefor provided with a downwardly extending circumferential flange, said cover flange and body having interlocking means selectively locking the flange to the body with the cover completely lowered and closed or partially elevated, a second locking means operative to secure the cover and body together in sealing relationship when the cover is completely lowered, adjacently positioned handles for said body and cover, a passageway through the cover flange oppositely and remotely positioned in respect to said handles, the side wall of the body closing said passageway when the cover is completely lowered, and said passageway being above the body side wall and open when the cover is moved to its locked partly elevated position.

2,652,171
COVER SECURING MEANS FOR WALL BOXES
Carl A. P. Johnson, North Quincy, Mass., assignor to S. H. Couch Company, Inc., North Quincy, Mass., a corporation of Massachusetts
Application August 30, 1950, Serial No. 182,219
5 Claims. (Cl. 220—55)

1. In combination with an electrical outlet box of the type described, means for securing a cover thereto comprising means providing a recess in the side wall of the box adjacent the surface edge on which the cover fits, a bracket having one side attached to said side wall on the outside thereof opposing said recess with a flange extending inward over the top of the recess and a downwardly turned C-shaped channel formed at the inner edge of the flange, said channel being substantially parallel to said recess, a threaded nut slidably retained between the recess and the channel, said flange having a slot therein extending parallel to the side wall of the box, the hole of said threaded nut being aligned substantially with said slot.



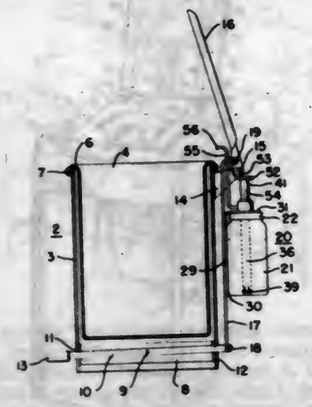
2,652,172
LINER SUPPORT AND CLOSURE FOR ACID RESISTANT DRUMS
Carmine Negola, Garwood, N. J., assignor, by direct and mesne assignments, to Drumboy, Inc.
Application October 30, 1951, Serial No. 253,789
6 Claims. (Cl. 220—63)



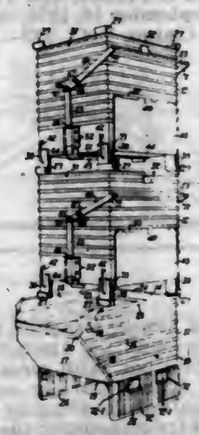
1. In combination with a metal container having a sheet metal cover fitted thereto, said cover having an opening therethrough in communication with the interior of the container, with an upwardly extending integral filler neck of circular cross-section, surrounding the opening, and a substantially perpendicular annular flange integral with said filler neck, a resilient liner adapted for removable insertion in said container, said liner having a neck section integral therewith, projecting through the cover filler neck opening, a tubular collar fitted to the cover filler neck, a compressible sleeve, comprising a tubular section with integral flanges at both ends thereof, inserted in said filler neck opening, the liner neck section being wrapped around the sleeve, the liner neck section being adjustable relative to the sleeve and readily detachable therefrom, the sleeve pressing the liner neck section against the cover filler neck to support the liner within the container, and means removably attached to the collar closing the filler neck opening.

2,652,173
GERMICIDAL RECEPTACLE
Richard R. Farrell, Oakmont, Pa., assignor to Universal Lubricating Systems, Inc., Oakmont, Pa., a corporation of Delaware
Application September 12, 1952, Serial No. 309,299
11 Claims. (Cl. 220—87)

1. A germicidal receptacle comprising a receptacle, a cover for the receptacle mounted for movement between closed and open positions, a germicide container carried by the receptacle exteriorly thereof, germicide delivery means extending from the germicide container into position to deliver germicide into the receptacle, germicide expelling means cooperating with the germicide container to expel germicide from the germicide container through the germicide delivery means into the receptacle upon relative movement between the germicide expelling means and the germicide container, means maintaining the germicide expelling means in generally stationary position and a connection between the cover and the germicide container moving the germicide container relative to the generally stationary germicide expelling means upon movement of the cover between closed and open positions.



2,652,174
TOTE BOX STACK CONSTRUCTION
Lindsey West Shea and Mark J. Osborne, Canton, Ohio, assignors to The Union Metal Manufacturing Company, Canton, Ohio, a corporation of Ohio
Application July 29, 1950, Serial No. 176,564
13 Claims. (Cl. 222—185)



1. In tote box stack construction, a stack of tote box units including a lower hopper box unit, and a plurality of bottom dump box units stacked on each other and the lowest bottom dump box unit being stacked on the hopper box unit, the hopper box unit including walls forming a hopper receptacle having an opening directed upwardly and to the side, and each bottom dump box unit including walls forming an enclosure having an upper opening and a lower opening, the opening of the hopper box unit and the openings of the dump box units being aligned with each other, and each dump box unit including gravity actuated bottom closure means operatively mounted thereon for inward and outward and up and down movement to and from closure position across the lower opening of the dump box unit, and releasable latch means operatively mounted on one of the walls of each dump box unit for selectively engaging the closure means in closure position and releasing the closure means to permit opening thereof.

2,652,175
PLUG VALVE FOR CONTROLLING THE FLOW OF SOLIDS LADEN LIQUID
Nelson L. Davis, Chicago, Ill.
Application February 1, 1949, Serial No. 74,626
13 Claims. (Cl. 222—195)

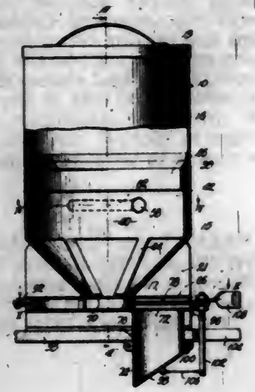


1. In combination, a plug valve, an aperture adapted to be closed by the valve, a valve seat surrounding the aperture adapted to be engaged by the valve, a chamber within the valve entirely above the seat, means for supplying air under pressure to said chamber, the chamber being ported to permit discharge of such air from the chamber to the area surrounding the valve, the chamber ports being located entirely above the valve seat when the valve is in the closed position.

2,652,176
CREAM DISPENSING APPARATUS FOR COFFEE-MAKING AND DISPENSING MACHINES
Ermal J. Lime, Kansas City, Mo., assignor to Lymean Manufacturing Co., Inc., Kansas City, Mo., a corporation of Missouri
Application September 19, 1949, Serial No. 116,543
4 Claims. (Cl. 222—361)

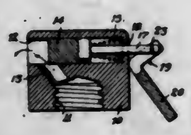
1. In an apparatus for dispensing granular material, the combination with a container having an outlet opening in the bottom thereof, of a valve casing registering with said outlet opening and having a discharge spout disposed in offset relationship to said outlet opening; a hollow valve shiftably mounted in said casing for movement alternately into communication with said outlet opening and said discharge spout as the valve is shifted; and a partition in the valve movable across said outlet opening as the valve is shifted for maintaining said outlet opening free of choking with the material, said partition

being spaced below said container, whereby certain of the material below the outlet opening is



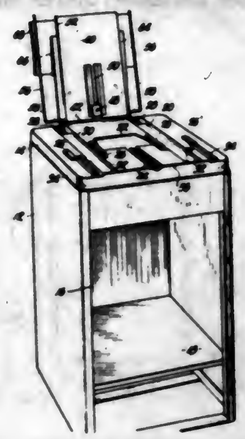
always in contact with certain of the material above the outlet opening as the valve is shifted.

2,652,177
CONTAINER CLOSURE HAVING SPRING BIASED SLIDABLE DISPENSING VALVE
Robert J. Lagemann, Brooklyn, N. Y.
Application May 5, 1950, Serial No. 160,263
1 Claim. (Cl. 222—509)



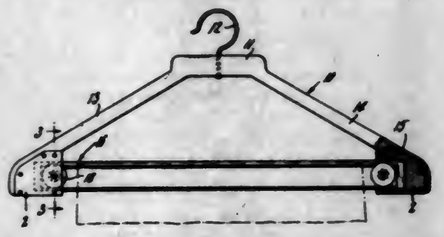
In material dispenser for substitution in place of the cap of a collapsible container, a body having a portion presenting a recess with wall formations for coacting with inter-engaging formations on the container to hold the body on the container, the body having a valve passage terminating at the surface of the body and formed with a material passage connecting the recess and the valve passage at positions well within the confines of the body, a valve member movably disposed within the valve passage and constructed to simultaneously close the material passage and the valve passage when the valve member is at one end of its path of movement with its end projected at least to the plane of said surface of the body at the discharge end of the valve passage, the valve member having a valve stem movable therewith, a coiled spring disposed around the valve stem between the valve member and a part of said body and normally biasing the valve member toward the aforesaid end of its path of movement, and a valve operating handle substantially pivotally connected to the valve stem and arranged and constructed to fit wholly snugly against the body of a non-projecting inoperative position when the handle is swung in one direction about its pivotal connection with the valve stem and to be held tightly against the body in projecting operative condition when the handle is swung in the reverse direction, the spring being in re-acting relation to the body to hold the handle in either its non-projecting inoperative condition or its projecting operative position.

2,652,178
GARMENT FOLDING APPARATUS
James W. Steele, North Kansas City, Mo.
Application August 7, 1950, Serial No. 178,941
6 Claims. (Cl. 223—37)



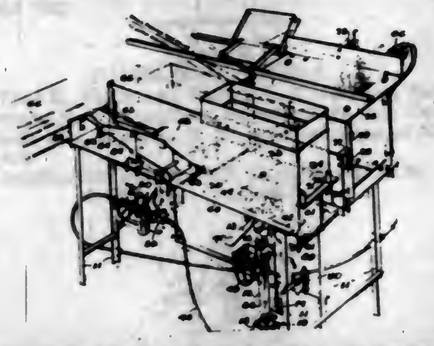
1. Garment folding apparatus comprising, in combination, a table having its top working face provided with a collar recess and a dado slot or groove extending from said recess, a leaf member carrying a folding arm assembly and pivotally mounted on the table top for movement into and out of position in operative relation to said working face of the table and resilient pads on said table top in position for serving as cushioning means for said leaf members and also as friction means for retaining the garment against shifting movement on said working face of the table.

2,652,179
GARMENT HANGER
Roderick E. France, New York, N. Y.
Application September 16, 1950, Serial No. 185,199
6 Claims. (Cl. 223—91)



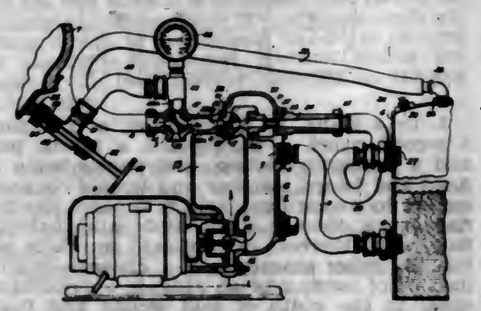
1. A garment hanger structure having shoulder portions; comprising an assembly of a transversely extending bar, with means connected to opposite ends of said bar for supporting coats and like garments at the shoulder portions thereof, hook means for suspending the assembly, each of said end means having a recess therein and receiving an end of said bar, a fast threaded shaft extending across each recess and through the respective end of said bar and fixed to said shoulder portions, an adjustable clamp bar extending between the fast threads, and wheel means operable upon the ends of said clamp bar and upon the fast threads to effect engagement of said clamp bar against said garment extending thereover and to force the same against the transverse bar of the assembly.

2,652,180
MACHINE FOR FILLING CARTONS
Martin Fox, Baltimore, Md.
Application July 2, 1951, Serial No. 234,715
11 Claims. (Cl. 226—16)



1. A machine for filling cartons comprising a frame, a shaft mounted for and constrained to vertical reciprocation on said frame, a horizontal platen secured at the top of said shaft, said platen having outwardly extendable portions, means for moving said portions outwardly when said shaft is elevated from a given normal position, means for moving said portions inwardly when said shaft is lowered to said normal position and means for supporting a carton on said frame about and independently of said platen.

2,652,181
PUMPING APPARATUS AND METHOD OF PUMPING FLUIDS
Warren E. Rupp, Mansfield, Ohio, assignor to The Gorman-Rupp Company, Mansfield, Ohio, a corporation of Ohio
Application March 14, 1947, Serial No. 734,610
9 Claims. (Cl. 226—30.3)

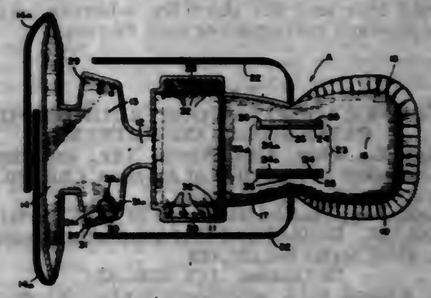


1. In apparatus of the class described, the combination of a reservoir adapted to receive and store air and liquid, a circuit for liquid connected to said reservoir above and below the level of the liquid therein, said circuit including a centrifugal pump for drawing liquid from said reservoir and discharging it into said reservoir above the liquid level therein and a jet nozzle between said pump and the discharge connection of said circuit with said reservoir, an air discharge line connected at its inner end with the upper portion of said reservoir, a separate circuit having connection at its inner end with said liquid circuit adjacent said jet nozzle for supplying fluid thereto, a fitting having a flow line adapted to be connected to a container and a port open to the atmosphere, a four-way valve common to said fitting, said port and the outer ends of said separate circuit and air discharge line, said valve when in one position serving to connect said fitting with said separate circuit, whereby said jet nozzle induces fluid flow in said separate circuit to withdraw fluid from the container, and in another position serving to connect said air discharge line with said fitting, whereby the container is supplied with air, and a valve in said liquid and separate circuits between said pump and said jet nozzle and arranged to cut off flow therethrough to said reservoir and connect said liquid circuit with said separate circuit, whereby, when said four-way valve is in said first mentioned position, liquid may be circulated by said pump from said reservoir through said separate circuit and fitting to the container.

2,652,182
COATED RUBBER STOPPER AND PROCESS FOR PREPARING SAME
Robert E. Umbdenstock, Brooklyn, N. Y., assignor to Chas. Pfizer & Co., Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application September 15, 1949, Serial No. 115,957
2 Claims. (Cl. 226—89)

2. A process for stoppering pharmaceutical containers which comprises coating rubber stoppers with a thin film of a silicone oil, sterilizing the coated stopper with steam at elevated pressure, drying the sterilized stoppers and inserting the same under aseptic conditions in the mouths of said pharmaceutical containers.

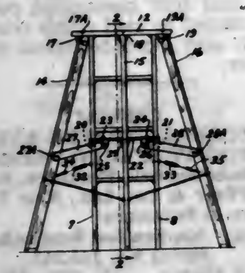
2,652,183
BABY HOLDER FOR CHILDREN'S CHAIRS
Bernice Hlivka, Minneapolis, Minn.
Application June 15, 1950, Serial No. 168,271
2 Claims. (Cl. 297—49)



1. A baby holder for a child's chair, the same being constructed of flexible material in elongated formation and comprising a back section, a seat section in continuation of said back section, a crotch section in continuation of said seat section, an apron section in continuation of said crotch section, tie means at the upper portion of the apron section for securing the same to the back of the chair and snugly about the waist of the baby, fastening elements at each of the outer marginal portions of the apron section, fastening elements at each of the outer marginal portions of the seat section, the fastening elements of one section being spaced apart laterally of the holder and the fastening elements of the other section being spaced apart longitudinally of the holder, the fastening elements at each marginal portion of one of said sections being cooperable selectively with the fastening elements at the

corresponding marginal portion of the other of said sections adjustably to join said seat and apron sections snugly about the outer side of corresponding leg of a baby at the thigh.

2,652,184
STEPLADDER
George E. Loucks, Belle River, Ontario, Canada
Application June 15, 1951, Serial No. 231,821
2 Claims. (Cl. 228—31)



1. In a device of the character described, including a pair of side rails and a plurality of steps secured thereto, the combination of a top plate, three clevises secured to the underside of said plate, two of said clevises being rotatable with respect to said plate, a leg pivoted to each of said clevises, a U shaped member pivoted to said side rails, three clevises pivoted to said U shaped member, two of said last named clevises being rotatable with respect to said U shaped member, arms pivoted to said last named clevises and to points intermediate the ends of said legs, spring means extending between said side rails and the two of said legs secured to said rotatable clevises, and chains extending between said last mentioned legs and the third leg, whereby to limit the outward movement of said two legs.

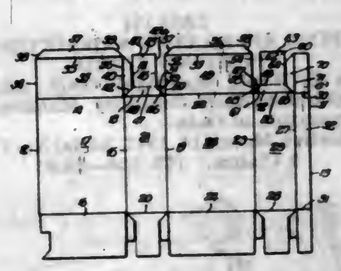
2,652,185
CORNER LOCKING CONSTRUCTION FOR PAPERBOARD CONTAINERS
Ralph E. Acker, Fort Worth, Tex., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Original application November 29, 1947, Serial No. 788,789. Divided and this application January 6, 1950, Serial No. 137,190
10 Claims. (Cl. 229—35)

1. A blank for a paperboard container comprising a paperboard sheet cut and scored to provide a rectangular bottom panel, an end wall panel hingedly connected to an edge of the bottom panel, a tab hingedly connected to the end wall panel, a side wall panel hingedly connected to an adjacent edge of the bottom panel, a flap hingedly connected to the side wall along a portion of its end edge, a tab receiving cut formed in the blank extending inwardly in substantial alignment with the flap hinge line, such cut merging in a second cut extending obliquely outward of the end edge of the side wall, such second cut merging in a third cut extending inwardly of the blank and offset outwardly with respect to the flap hinge line, to provide an end edge portion of the side wall extending outwardly beyond such flap hinge line whereby to form a tab guiding element to facilitate reception of the tab into the tab receiving cut, and a cut at a part of the tab hinge line remote from the bottom panel, extending inwardly of the end wall, and providing a notch when the tab is folded on its hinge line, the



notch being adapted to lockingly engage the flap at the outer end portion of the tab receiving cut when the blank is erected into container form.

2,652,186
CARTON
Julius A. Zinn, Jr., Chicago, Ill.
Application March 8, 1947, Serial No. 733,305
6 Claims. (Cl. 229—38)



1. In a blank, in combination, a first panel, a second panel, a third panel, a fourth panel and a connector section, said panels being defined and joined together and to said connector section by crease lines, said first panel having a flap swung thereon, said third panel having a flap swung thereon, each of said two flaps having side edges spaced apart a distance equal to its axis of swing and an altitude approximately equal to the width of said second and fourth panels, each of said flaps having a web swung thereon, each of said webs having a beveled end, said second panel being provided with a tab having web corners connecting it with the flaps of said first and third panels, said tab of said second panel being of less width than that part of said second panel adjacent to its tab, said connector section being provided with a flap swung thereon said fourth panel being provided with a tab having web corners connecting it with the flaps of said third panel and said connector section, said tab of said fourth panel being of less width than the portion of said fourth panel adjacent to its tab, the flaps of said first panel and said connector section having laterally extending webs integrally united with the web corners of said second and fourth panels, said webs of said flaps of said first panel and said

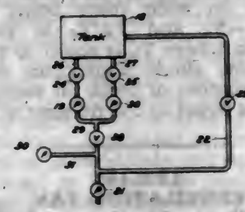
connector section extending into adjacency with the sides of the tabs of said second and fourth panels, the two opposite sides of the flap of said third panel being free of webs whereby to provide clearance on both sides of said last mentioned flap.

2,652,187
PAPER BAG HANDLE
Harford K. Steen and Harold L. Thompson, Newburgh, N. Y., assignors to Interstate Bag Company, Inc., Walden, N. Y., a corporation of New York
Application July 8, 1950, Serial No. 172,736
8 Claims. (Cl. 229—54)



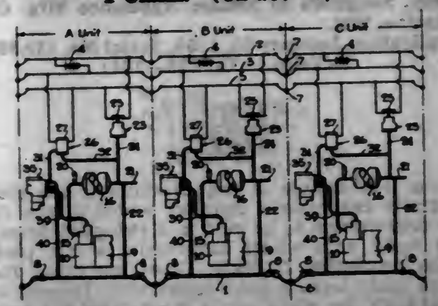
1. A collapsible bag and a handle, the handle comprising a single generally U-shaped member of fibrous ribbon-like material possessing in addition to the tensile strength necessary to suspend the loaded bag substantial stiffness and resilience, said handle extending flatwise from the top central portion of one interior surface of the bag to the top central portion of the opposite interior surface thereof, means for attaching each end portion of the handle to the bag, said handle normally extending flatwise upwardly from the bag when it is collapsed, and having an obliquely extending score line adjacent each attaching means to enable said handle to be bent and assume a transverse position within the mouth of the bag, thereby assisting in keeping the bag open.

2,652,188
AUTOMATIC TANK PUMP DOWN
Rob Roy Cyr, Berkeley, Calif., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission
Application July 8, 1948, Serial No. 37,681
8 Claims. (Cl. 230—2)



1. A system for evacuating a chamber comprising a mechanical pump and a plurality of diffusion pumps, valve means connecting each of said pumps to the chamber and to each other, means responsive to pressures above a predetermined value for operating said valve means to connect the mechanical pump with the chamber to partially evacuate it, and means responsive to pressures below the predetermined value for operating the valve means to connect the mechanical pump in series with the diffusion pumps to receive their outputs and evacuate the chamber to a high vacuum.

2,652,189
CONTROL APPARATUS FOR FLUID COMPRESSORS
Andrew T. Gorman, Pitcairn, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application June 4, 1949, Serial No. 97,230
1 Claim. (Cl. 230—7)



A fluid pressure supply system comprising, in combination, a pipe, a plurality of reservoirs connected, respectively, to spaced apart portions of said pipe, a plurality of air compressors, the pressure outlets of which are connected, one each, to said reservoirs, each compressor comprising unloading means operable by fluid under pressure to render the respective compressor ineffective to compress air and upon release of such fluid under pressure to render the respective compressor effective to compress air, a source of electrical energy, a first wire connected to one pole of said source, a second wire connected to the opposite pole of said source, a control wire, and a plurality of control means, one for controlling supply of fluid under pressure to and its release from the said unloading means of each of said compressors, each of said control means comprising a governor connected and subject to pressure of fluid in the respective reservoir, said governor including switch means responsive to a chosen pressure of fluid in its respective reservoir to electrically connect said first wire to said control wire and responsive to a lower pressure therein to break electrical connection between said first wire and said control wire for thereby energizing and deenergizing, respectively, said control wire, each of said control means further comprising a conduit and a first control device connected to said conduit, said first control device comprising movable abutment means connected and constantly subject to pressure of fluid in the respective reservoir, valve means controlled by said abutment means controlling one communication between the respective said unloading means and reservoir and another communication between the respective said unloading means and said conduit, said abutment means being operative in response to a pressure of fluid in the respective reservoir, which is greater than said chosen pressure, to actuate said valve means to open said one communication and close said other communication, and means acting on said valve means and abutment means operative in response to a pressure in the respective reservoir acting on said abutment means, which pressure is lower than said greater pressure, to actuate said valve means to close said one communication and open said other

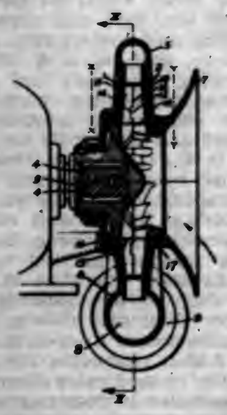
communication, each of said control means further comprising a second control device connected to said second wire and controlled from said control wire and also connected to said conduit and the respective reservoir and operative upon energization of said control wire to connect said conduit to atmosphere and upon deenergization of said control wire to connect said conduit to the respective reservoir.

2,652,190
IMPELLER WHEEL
Rudolph L. Meltzer and Henry E. Meltzer, Racine, Wis., assignors to Master Appliance Mfg. Co., Racine, Wis.
Application January 23, 1950, Serial No. 139,998
1 Claim. (Cl. 230—134)



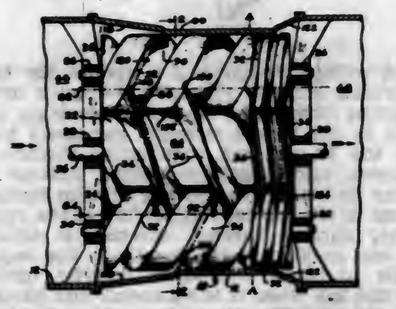
As a new article of manufacture a one-piece integrally cast plastic impeller wheel of the cup type constructed to be cast in a two-part permanent mold, said wheel comprising a hub plate, blades projecting laterally from the inner face of the plate having their inner ends formed integral with the plate on its inner face, the outer edge of each blade being perpendicular to the plane of said plate, and an integral reinforcing ring connecting the blades at a point remote from the plate, said reinforcing ring being integral with the outer edges only of said blades and lying entirely beyond the outer periphery of the plate, said blades being substantially equidistantly spaced both at their inner and outer ends and having their inner edges terminating decidedly short of the axial center of the hub plate.

2,652,191
ROTOR FOR COMPRESSING MACHINES SUCH AS CENTRIFUGAL BLOWERS AND PUMPS
Alfred Büchi, Winterthur, Switzerland
Application December 30, 1947, Serial No. 794,506
In Switzerland February 21, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires February 21, 1962
3 Claims. (Cl. 230—134)



1. A rotor for compressing machines such as centrifugal blowers and pumps which is composed of two sections confronting each other axially, one of said sections comprising a driving disc, blading portions extending at least partially axially from said disc, each of which blading portions is integral therewith, and the other section comprising a shroud ring, blading portions on said shroud ring integral therewith and extending toward said first blading portions to abut thereagainst, and interengaging shoulders on the abutting surfaces of said blading portions, the said abutting surfaces, excluding the shoulders, when brought together being comprised of two areas, one area lying substantially in a first plane normal to the rotor axis, and the other area lying substantially in a second plane also normal to the rotor axis, said two planes being set off axially from each other by a distance equal to the width measured axially of the blower of said shoulders, and said shoulders extending substantially perpendicularly to both of said two planes.

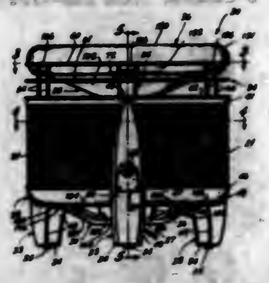
2,652,192
COMPOUND-LEAD SCREW COMPRESSOR OR FLUID MOTOR
Roland Chilton, Ridgewood, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application June 13, 1947, Serial No. 754,280
12 Claims. (Cl. 230—143)



1. Apparatus of the class described comprising a first rotor having helical teeth thereon; one or more second rotors disposed adjacent to said first rotor and having helical teeth thereon in mesh with the teeth of said first rotor; the teeth of said first rotor being all-addendum and the teeth of said one or more second rotors being all-dedendum to form a continuous seal line between each pair of meshing rotors, said helical teeth having a relatively long constant lead on one side of a plane disposed transversely across said first rotor and having a relatively short constant lead on the other side of said plane; and a tubular housing fitted about said rotors; the number of said rotors and the number of helical teeth on each rotor being such that $T_s=(T_d\times N_d)-N_d$ and T_d/T_s is substantially less than unity where T_s is equal to the number of teeth on the single addendum rotor, T_d is equal to the number of teeth on each dedendum rotor and N_d is equal to the number of dedendum rotors.

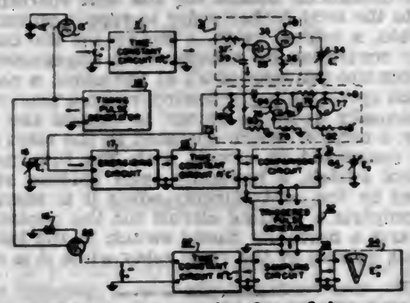
2,652,193
VENTILATING FAN
Caryl A. Lindberg, Glendale, and Howard W. Eckles, St. Louis, Mo., assignors to The Emerson Electric Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application October 25, 1947, Serial No. 782,652
18 Claims. (Cl. 230—259)

1. In a fan construction of the character described, a circular perforated housing, a bottom cover member therefor containing an opening, said opening being adapted to pass a fan assembly including a motor and fan blades, a plurality of individually removable and replaceable spaced standards to support the housing and the bottom cover member in an elevated position,



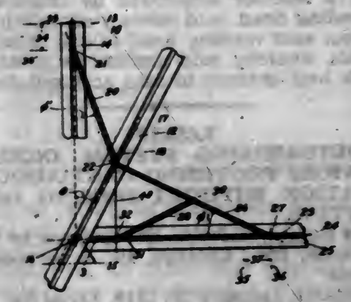
a guard member also supported by said standards, a fan assembly mounted centrally of and within said housing, a baffle member mounted above said guard member, a support for the fan assembly, and means whereby said support is removably attached to the bottom cover member of said housing.

2,652,194
ELECTRICAL COMPUTER
Charles J. Hirsch, Douglaston, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application March 2, 1948, Serial No. 12,633
20 Claims. (Cl. 235—61)



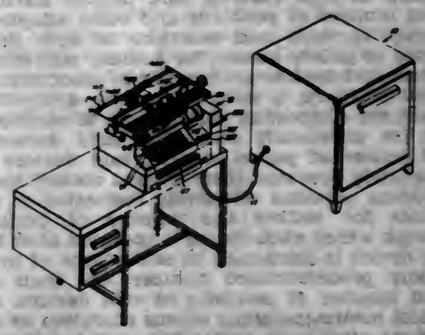
2. An electrical computer for solving equations involving known and unknown parameters comprising: an electrical reference circuit having circuit elements with resistance and reactance values so proportioned as to develop an electrical effect varying as a predetermined time function which at an instant of time determined by an independent variable known parameter of an equation to be solved reaches a value representing said known parameter; a source of potential having a value representative of said independent variable known parameter; means for utilizing said potential of said source and said effect at said predetermined time to develop a control effect; an electrical controlled circuit having circuit elements with resistance and reactance values so proportioned as to develop another electrical effect having a value electrically independent of the value of said first-mentioned effect and varying as a predetermined time function a value of which at some time is related to the value of an unknown parameter of said equation; means responsive to said control effect for evaluating said other effect to derive a resultant effect which represents an unknown parameter of said equation; and means for utilizing said resultant effect.

2,652,195
CORRECTION DEVICE FOR FUNCTION GENERATORS
Philip T. Nickson, East Braintree, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application February 27, 1951, Serial No. 212,912
9 Claims. (Cl. 235—61)



1. A correction device for a function generator of the type having two mechanical displacement inputs, one of which comprises a rotary element carrying a slide in a slot, the center line of which passes through the pivot of the rotary element, and an output element comprising a fixed element formed with a slot carrying a slide and a linkage member joining the slides, said correction device comprising a third slide adapted to travel in a slot collinear with the slot in the fixed element and a second linkage member half the length of the first-mentioned linkage member and engaging the mid-point of said linkage member and the third-mentioned slide.

2,652,196
WIRE RECORDING STORAGE MECHANISM FOR BOOKKEEPING MACHINES
John L. Sterling, Bellerose, N. Y., assignor to Remington Rand Inc., New York, N. Y., a corporation of Delaware
Application May 20, 1949, Serial No. 94,324
24 Claims. (Cl. 235—61.9)



7. In a business machine of the character described, the combination of a plurality of magnetic recording devices containing impulses representing digits of an amount, said recording devices being arranged in groups, a reading head associated with each group, said head being mounted on a carriage adapted for step by step movement with relation to said group, means for

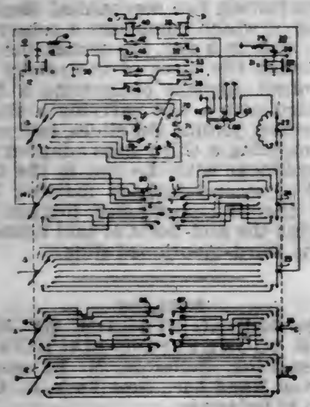
selecting and stepping said carriage and head into active relation with one of said recording devices in a group, cooperative with a letter-feedable paper carriage having accumulators thereon, typing instrumentalities and actuators for said accumulators associated therewith, print solenoids for controlling the actuation of said typing instrumentalities and actuators, and circuit means effective at a predetermined zone of letter feed travel of said paper carriage comprising a selector controlled by impulses from said reading head, said selector completing a circuit from said reading head to one of said print solenoids whereby said amount is printed digit by digit and entered in said accumulators.

2,652,197

PREDETERMINING SYSTEM, INCLUDING DEVICES PROVIDING CONTINUOUS OPERATION WITHOUT HOMING OR RESETTING

Jacques Berger, Chicago, Ill., assignor to Welding Research, Inc., Chicago, Ill., a corporation of Illinois

Application January 28, 1949, Serial No. 73,299
22 Claims. (Cl. 235—132)



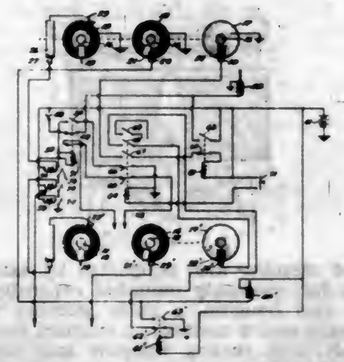
21. Pace making apparatus including in combination, first and second pulse operated step-by-step devices, each of said devices having a given number of positions and being adapted to operate through said positions in turn in response to pulses, means for homing said devices so that said devices are brought to predetermined initial positions, a source of pulses, and control means for connecting said devices to each other and for alternately connecting said devices to said source of pulses so that said devices are alternately operated thereby, said control means including portions selectively connected to said devices for setting the number of positions through which each device is operated each time said device is connected to said source of pulses at any predetermined number less than said given number of positions of said devices, said control means including means energized by said portions after each device has operated through said predetermined number of positions to disconnect the device which has operated from said source of pulses and to connect the other device thereto, with each of said devices completing each operation thereof at any one of said positions and starting the next operation thereof from the position where the preceding operation was completed.

2,652,198

PREDETERMINED COUNTER

Verne C. Kennedy, Jr., Chicago, Ill., assignor to Streeter-Amet Company, Chicago, Ill., a corporation of Illinois

Application October 25, 1950, Serial No. 192,120
5 Claims. (Cl. 235—132)



1. A predetermined counter comprising a plurality of counter units for a series of orders, each counter unit including a movable member carrying a control contact and a transfer contact, a manually adjustable contact engageable with the control contact, electromagnetic means to move the member step by step in response to electrical impulses, a contact in each unit to engage the transfer contact when the movable member is in a predetermined position and connected to the electromagnetic means for the unit corresponding to the next higher order to supply an impulse thereto, a control relay, a circuit for the control relay controlled by simultaneous engagement of the control contacts of all of the units, a control switch operated by the control relay, a reset relay, a manually operated switch to control the reset relay, a control switch operated by the reset relay and connected in circuit with the first named control switch, a normally open holding switch closed by the control relay when it is energized to complete a holding circuit for the control relay, and a normally closed switch in the holding circuit opened by the reset relay when it is energized.

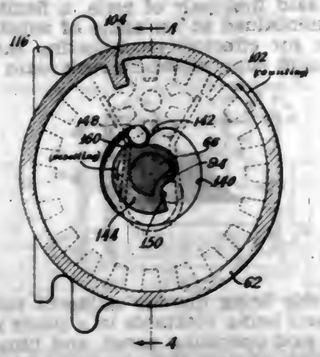
2,652,199

ODOMETER RESETTING MECHANISM

Floyd E. Miner, Lombard, and Edward C. Murbach, Chicago, Ill., assignors to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia

Application October 6, 1949, Serial No. 119,929
1 Claim. (Cl. 235—144)

In a counter assembly having a plurality of numeral wheels mounted upon a shaft for rotation relative thereto, the combination of means on each of the numeral wheels providing a groove extending throughout substantially 360° and having a single radial inwardly extending projection, a clutch member secured to the shaft adjacent each wheel and having a groove extending somewhat less than 180°, said groove having an enlargement formed at one end thereof, the grooves being confrontingly positioned to form a ball race, a ball located within the race formed by the grooves in the numeral wheel and in the clutch member, said groove on the clutch member having a recess of sufficient size that the ball may be forced thereinto by the projection on the numeral wheel during relative rotation of the wheel and the clutch member in one direction so as to permit the free relative rotation of the numeral wheel and the clutch member in said direction, said ball being engageable by



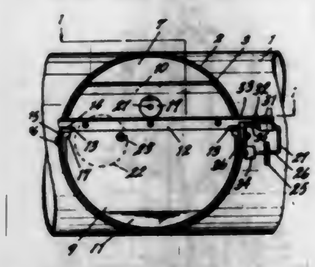
the projection and forming a positive driving connection between the clutch member and the numeral wheel upon relative movement thereof in the opposite direction.

2,652,200

BAROMETRIC DRAFT REGULATOR

Edward A. Field, Mendota, Ill.

Application September 29, 1950, Serial No. 187,492
17 Claims. (Cl. 236—45)



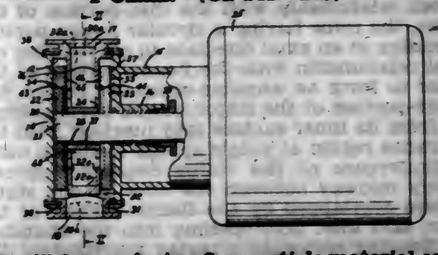
1. In a draft regulator device, an open ended gate housing, a pivotally mounted gate disposed in said housing for opening inwardly during an updraft and outwardly during a down draft, the pivotal axis of the gate being horizontal, weighting means on said gate, the center of gravity of the gate and weighting means being disposed vertically below the pivotal axis of the gate to effect a closing torque on the gate, a lever pivotally supported intermediate its ends on said gate, the pivotal axis of the lever being horizontal, one of the arms of the lever extending above said pivotal axis of the lever and the other arm extending below said pivotal axis of the lever, a weight on the lower arm, means on said gate disposed above said pivotal axis of the gate for engaging the upper arm of the lever when the gate opens inwardly due to an updraft, said lower arm and weight being disposed to move inwardly and upwardly by engagement of said means with said upper arm during such inward opening movement of the gate, and a stop supported on said gate housing and disposed to engage said lower arm and support said arm and weight inwardly of the gate in slightly inclined relation to the vertical plane of the gate when the gate is closed and opening outwardly due to a downdraft.

2,652,201

ROTARY DISK TYPE HOMOGENIZING MILL

John Heselton Mallinson, Front Royal, and Charles James Geyer, Jr., Cedarville, Va., assignors to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

Application February 27, 1948, Serial No. 11,648
1 Claim. (Cl. 241—146)



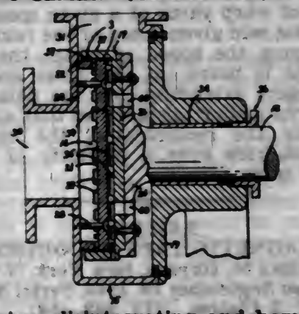
A mill for producing fine particle material comprising a single unitary casing and a rotor mounted therewithin; the casing comprising an outer cylindrical ring, an inner ring disposed in concentrically spaced relationship with the outer ring, the inner ring having an axial extent less than the outer ring and having a cylindrical wall and annular end walls which extend radially inwardly from the cylindrical wall, a single exhaust opening extending intermediately and radially through the outer ring, a feed duct extending in a radial direction through the outer ring, the cylindrical wall of the inner ring, and the space therebetween; a bearing supported centrally of the casing and means connected with one of the rings for supporting the bearing; said rotor comprising a shaft supported in said bearing, a pair of coaxial spaced discs mounted on the shaft, each disc extending radially into opposed relationship and close clearance with the outer surface of one of said end walls, the mill being open along the inner circumferences of said end walls for passage of material from exteriorly of the inner ring into the region between each disc and the adjacent end wall surface; and a flat plate secured to each end of the outer ring, one of the plates having an opening for extension of the shaft therethrough and sealing means associated with said plate to prevent the escape of milled material through the opening thereof.

2,652,202

HOMOGENIZING MILL

John Heselton Mallinson, Front Royal, and Charles James Geyer, Jr., Cedarville, Va., assignors to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

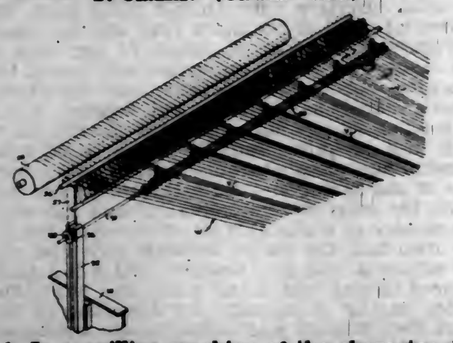
Application February 27, 1948, Serial No. 11,647
3 Claims. (Cl. 241—255)



1. A mixing, disintegrating and homogenizing machine comprising a housing having an inlet port and an outlet port for fluid materials, a

stator having a disc-portion and a circular flange-portion extending axially and concentrically with respect to the disc-portion into continuous engagement with an inner surface of the housing to substantially enclose a chamber between the housing and the stator, a rotor mounted in coaxial relationship with the stator having a perforated disc-portion in adjacent spaced relationship with the disc-portion of the stator, the rotor having a circular flange-portion extending in an axial direction in overlapping coaxial relationship with the flange-portion of the stator, to form an annular clearance region, the flange-portion of the stator having ports extending from its inner surface into junction with the clearance region at points spaced along an outer circumference of the stator disposed approximately midway between the ends of the stator surface overlapped by the flange-portion of the rotor, said inlet port opening into the chamber, the housing enclosing a region surrounding the rotor and the stator in communication with the ends of the clearance region and the outlet port.

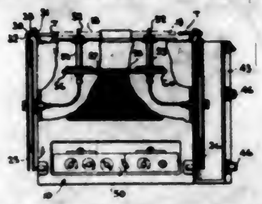
2,652,263
QUILLER RAKE
Richard R. Cone, Gastonia, N. C., assignor to Threads Incorporated, Gastonia, N. C., a corporation of North Carolina
Application October 11, 1951, Serial No. 250,928
17 Claims. (Cl. 242—35.5)



1. In a quilling machine of the character described, the combination with means for taking up a sheet of warp yarns and wherein the sheet of warp yarns is formed from a rope of yarns adapted to be grasped by an operator for retarding movement of the sheet thereby varying the speed at which said warp yarns are taken up, of a raking device positioned adjacent the sheet of warp yarns and having a plurality of longitudinally spaced radially extending raking fingers thereon, means for driving the raking device in a reciprocatory manner transversely of the sheet of warp yarns at a given speed and for maintaining said given speed of the raking means while varying the speed at which the sheet of warp yarns is taken up, the outer ends of the raking fingers extending into the path traveled by the yarns a short distance so that as the raking fingers are reciprocated, the outer ends thereof will ride over a plurality of yarns to strum the same.

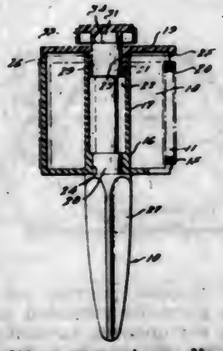
2,652,264
MAGNETIC TAPE RECORDER
Nathan M. Haynes, New York, N. Y.
Application September 16, 1948, Serial No. 48,690
3 Claims. (Cl. 242—54)

1. In a magnetic recorder including a rectangular cabinet having a horizontal operating panel and vertically operated drive means for rotating a first pair of reels in a plane parallel to said operating panel, a pair of larger, supplementry reels rotatably connected to respective sides of the cabinet and adapted to alternative operation with said first pair of reels, a flexible connection maintained at an angle of substantially 90 degrees for effectively connecting said drive means to said supplementary reels, said supple-



mentary reels being directly adjacent said cabinet sides and being rotatable in a plane perpendicular to said operating panel, and hinged side doors forming narrow end chambers having the same length and width dimensions as the sides of the cabinet for housing said supplementary reels at said cabinet sides, said supplementary reels occupying substantially the entire area of said narrow end chambers.

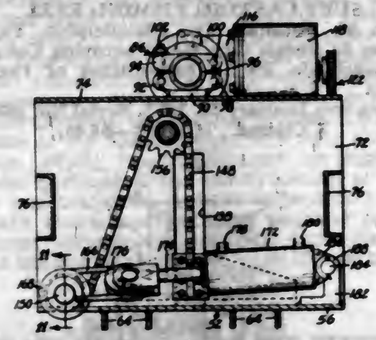
2,652,265
MULTIPURPOSE TAPE DISPENSING DEVICE
Philip Balaban, Detroit, Mich.
Application May 25, 1951, Serial No. 228,327
4 Claims. (Cl. 242—55.5)



1. In a multi-purpose tape dispenser, a separable casing having a cylindrical wall containing a slot through which tape may be dispensed, a hub within the casing on which a roll of tape may be supported, the outer surface of said wall being relatively smooth so that the tape when drawn through the slot may be secured with the tacky side out about said cylindrical wall and across said slot to provide a substantially cylindrical tacky surface, a handle pivoted in the center of said casing and extending from one side thereof on which said casing is free to roll, and means for securing said handle on said casing.

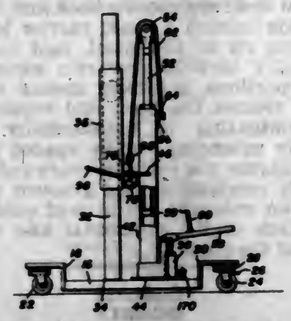
2,652,266
WEB ROLL WINDER
George Bacchi, New Philadelphia, Ohio, assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 2, 1950, Serial No. 159,631
11 Claims. (Cl. 242—58)

7. A web roll winder comprising: a base; means on the base rotatably to mount a web roll on a substantially horizontal axis; additional means on the base to support a web roll and being movable vertically with respect to the base; means to move the additional means vertically including a shaft mounted on the base and rotatable



about a substantially horizontal axis and a length of a flexible member for each end of the shaft and having one end connected to be wrapped around the shaft and another end connected to said additional means; and means to rotate the shaft.

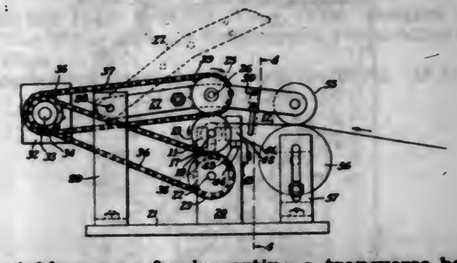
2,652,267
LINOLEUM LIFTER
Ray Goodken, Dyersville, Iowa
Application April 21, 1952, Serial No. 283,474
11 Claims. (Cl. 242—58)



1. A linoleum lifter comprising a pair of end stands, each end stand including a narrow elongated base, a castor wheel at each end of the base, an upstanding substantially cylindrical standard on each base, a sleeve slidably mounted on the standard, a hydraulic jack mounted on the base in spaced relation to said standard, a driving connection between the jack and the sleeve, a guide member fixed on the sleeve and engaging the jack, a reach bar connected between said sleeves, said reach bar being arranged transverse to said bases, an inwardly extending mandrel on each sleeve.

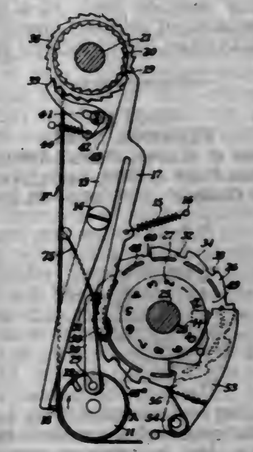
2,652,268
FILM-WINDING DEVICE
Harold L. Fitch, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application February 7, 1950, Serial No. 142,573
11 Claims. (Cl. 242—66)

1. A film-winding device for winding a film strip onto a double-flanged film spool to which one end of said strip is attached, the balance of said strip being unwound and extending away from said spool, comprising, in combination, a shaft on which said spool is loosely positioned, means for supporting said spool, means cooperating with said supporting means for rotating said spool to wind said strip thereon, means to position said shaft and spool so that the latter will engage said supporting and rotating means, laterally ad-



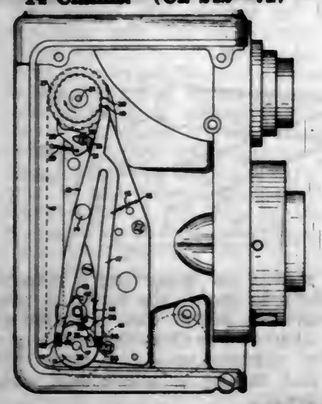
justable means for imparting a transverse bend to said strip to enable the latter to pass between said flanges the peripheries of which are spaced apart a distance less than the width of said strip, means for aligning said strip with said bending means, and means to guide said strip to said aligning means.

2,652,269
FILM METERING MECHANISM
Howard T. Hedges, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application May 27, 1950, Serial No. 164,787
20 Claims. (Cl. 242—71)



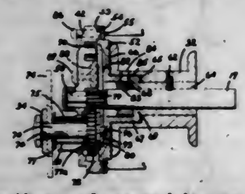
1. In a roll film camera, the combination with a camera body, a rotatable take-up spindle mounted on said body and adapted to be rotated in one direction to wind up a film strip after each exposure, a ratchet carried by said spindle, a movable pawl, a rotatable disk positioned on said body and rotated by said strip and in timed relation therewith, of means controlled directly by said disk to permit said pawl to move into locking relation with said ratchet when a predetermined length of film has been wound, means actuated by said spindle for moving said pawl out of locking relation with said ratchet, and means on said disk for holding said pawl out of locking relation.

2,652,210
FILM METERING AND PHASING MECHANISM
Howard T. Hedges, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application July 27, 1950, Serial No. 176,169
14 Claims. (Cl. 242—71)



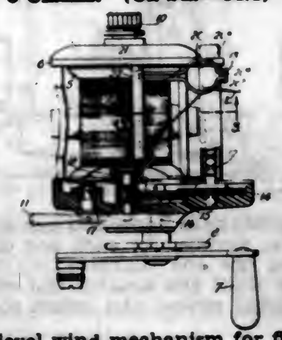
7. In a roll-film camera, the combination with a rotatable take-up spindle adapted to be rotated in one direction to wind up a film strip after each exposure, a ratchet carried by said spindle, a movable pawl, a notched rotatable metering disk positioned on said body and rotated by said strip and in timed relation therewith, of a lug on said pawl movable into the notch of said disk to move said pawl into locking relation with said ratchet when a predetermined length of film has been wound, means to move said pawl out of locking relation with said ratchet, and means independent of said last-mentioned means for moving said pawl out of locking relation with said ratchet.

2,652,211
FISHING REEL
William C. Hanse, Philadelphia, Pa.
Application June 7, 1950, Serial No. 166,647
8 Claims. (Cl. 242—84.4)



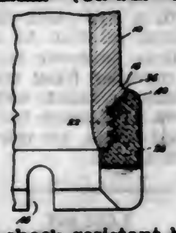
1. In a casting reel comprising an annular cage, one end of the cage being enclosed by a housing joined thereto, the housing comprising an inner member facing toward the cage and an outer member facing away from the cage, a bearing in each member disposed concentrically about the axis of the cage in spaced relationship with the bearing of the other member, a shaft extending coaxially through the cage and the bearings, and a winding mechanism in driving relationship with the shaft; in combination therewith a line-storage spool supported on a portion of the shaft extending within the cage and outside of the housing, the spool having an annular recess concentric to said shaft which extends inwardly from the end of the spool adjacent the housing, the bearing of the adjacent inner member being disposed within said recess by an axially-protruding portion of the member extending into the recess in spaced relationship, and free from contact, with the shaft and the axially-extending surface of the recess, the driving connections of said mechanism and the shaft being disposed entirely within the housing and between said bearings.

2,652,212
SURF CASTING FISHING REEL
Joseph M. Holahan, Jr., Philadelphia, Pa., assignor to Ocean City Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 28, 1952, Serial No. 268,508
3 Claims. (Cl. 242—84.4)



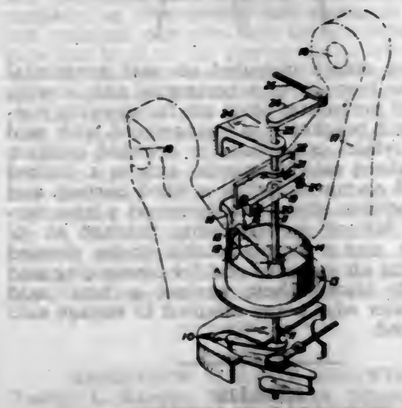
1. In a level wind mechanism for fishing reels and the like comprising a spool, a frame in which the spool is journaled, a grooved cross member in said frame, a level wind worm journaled in said frame, a driving connection between the worm and the spool to rotatably drive the worm upon rotation of the spool, a carrier mounted on said worm and reciprocable back and forth thereon, a guide carried by said carrier to guide the fishing line on to the spool, said guide having substantially vertical upwardly extending parallel leg portions in closely spaced relationship to freely receive the line, said vertical leg portions terminating in substantially horizontal rearwardly extending closely spaced parallel leg portions having the extreme rearward end thereof slidably received in said grooved cross member, and an enlarged eye in said guide adjacent the junction of the horizontal and vertical leg portions of the guide.

2,652,213
BOBBIN
Joseph W. Bourassa, Greene, Maine, assignor, by mesne assignments, to himself and Alphonsine B. Bourassa, as tenants by the entirety
Application March 24, 1950, Serial No. 151,739
1 Claim. (Cl. 242—120)



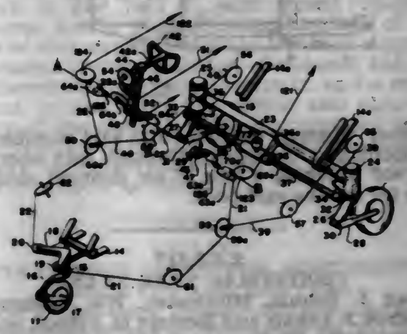
An improved shock resistant bobbin construction for use in the roving process and similar textile operations, said bobbin construction including a cylindrical barrel section of wood and an annular reinforced vulcanized fiber base secured at the lower end of the barrel section and having a downwardly facing slotted portion at its bottom face adapted to be located in driving relationship with the metal dog of a spindle gear, said barrel section being formed with a reduced lower end portion presenting a bottom radially extending shoulder, a second radially extending shoulder having its face parallel to the face of the first shoulder located above and in spaced relation to the bottom radially extending shoulder both vertically and laterally, a threaded portion occurring between the upper and lower shoulders, a third radially extending shoulder spaced vertically and laterally of the second shoulder, said annular reinforcing base being constructed with complementary threads and radially extending shoulder portions, the radially extending shoulder portions of the annular base in a fully threaded position solidly bearing against corresponding shoulder portions of the barrel section at points above and below the threads to provide a shock resistant barrel joint, and all abutting pairs of shoulders being spaced inwardly from the outer wall of the annular base and below the top thereof.

2,652,214
AIRCRAFT RETRACTABLE AND STEERABLE NOSE-WHEEL AND TAIL-WHEEL MOUNTING
Richard C. Cussons, Cheltenham, England, assignor to Dowty Equipment Limited, Cheltenham, England
Application June 15, 1951, Serial No. 231,847
In Great Britain May 11, 1950
1 Claim. (Cl. 244—50)



An aircraft retractable and steerable wheel mounting comprising a non-rotatable casing adapted to be hingedly connected to an aircraft for movement between a retracted position and an extended position, a wheel-supporting column mounted rotatable about its axis in said casing, servomotor means mounted on said casing, said servomotor means including a rotatable servo-control spindle and an associated steering motor operatively connected to said wheel-supporting column to maintain positional correspondence of said column with said servo-control spindle, centralising spring means acting between the casing and the servo-control spindle to restore it to a rest position corresponding to the central position of the wheel-supporting column, a steering spindle mounted on the aircraft so as to lie co-axial with the servo-control spindle in the extended position of the wheel mounting, and a separable transmission coupling consisting of complementary parts fixed respectively to the servo-control spindle and to the steering spindle, said complementary parts being adapted to co-act when the wheel mounting is extended for transmitting steering control to the servomotor means in opposition to the loading of said centralising spring means, and to separate when the wheel mounting is retracted for subjecting the servomotor means solely to the influence of the centralising spring means.

2,652,215
AIRCRAFT LANDING GEAR
Clayton John Brukner, Troy, Ohio, assignor to The Waco Aircraft Company, a corporation of Ohio
Application December 17, 1946, Serial No. 716,829
3 Claims. (Cl. 244—50)

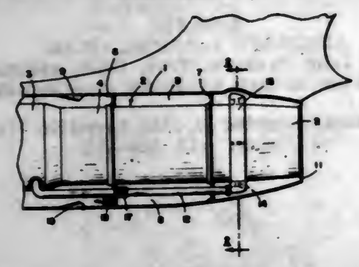


1. In an aircraft landing gear including a forwardly disposed steerable nose wheel and a pair of rearwardly disposed main wheels, said main wheels being laterally spaced and pivotally mounted for swivelling movements, a rod member interconnecting said swivelling main wheels for simultaneously swivelling movements, a cylinder element fixedly mounted upon the aircraft through which said rod member is arranged to reciprocate, damping means associated with said cylinder element for opposing rapid reciprocating movements of said rod member therethrough, a fixed abutment carried by said cylinder element, a stop portion carried by said rod member, resilient means anchored at a first terminal to said rod member and maintained in a state of initial compression by engagement of its second terminal with said stop portion of said rod member, said second terminal of said resilient means also arranged upon movement of said rod member for engagement with said fixed abutment carried by said cylinder element, said abutment, said stop portion and said resilient means arranged in such manner that movement of the rod member in one direction is resiliently opposed by further compression of said resilient means upon engagement of said second terminal of said resilient means with said fixed abutment, and opposite movement of said rod member is unassisted by the compressed state of the said resilient means, said stop portion preventing engagement of said resilient means whereby said main wheels are resiliently and non-reactively centered in their normal aligned central positions.

2,652,216
AIRCRAFT STRUCTURE COOLING MEANS
James D. Hoffman, Pacific Palisades, Calif., assignor to North American Aviation, Inc.
Application May 5, 1952, Serial No. 286,166
5 Claims. (Cl. 244—74)

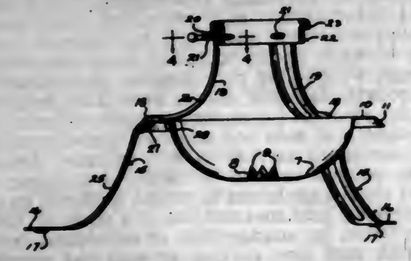
1. Cooling means for an aircraft having a jet propulsion engine having an air compressor and a body, said engine being disposed within said body so as to provide an annular passage around said engine having a forward inlet and a rear outlet, said means comprising an annular hollow member disposed within said passage in spaced

relationship with said engine and said body, said member being provided with a plurality of apertures in the rear portion thereof; means interconnecting said air compressor and said annular



member whereby air flows into said member and is discharged therefrom through said apertures thereby inducing a flow of air through said passage for cooling said body.

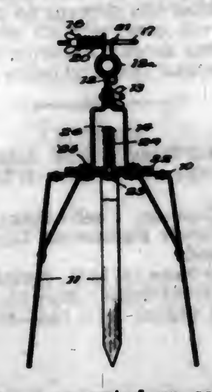
2,652,217
CHRISTMAS TREE STAND
Alfred J. Schuh, Milwaukee, Wis., assignor to Alfred J. Schuh and Herbert H. Schuh, copartners, doing business under the name and style of S–B Manufacturing Company, Milwaukee, Wis.
Application May 21, 1948, Serial No. 28,583
2 Claims. (Cl. 248—48)



1. In a Christmas tree stand of the type having interlocking legs, ring and bowl, the bowl having a rim of materially larger diameter than the ring and the legs extending divergently from the ring to the bowl and provided with feet at a considerably greater radius than the rim of the bowl, the combination with a bowl having a rim provided with a peripherally continuous flange with a downwardly inclined part, of a leg extending in an outward and downward direction across said rim and flange and having an upwardly inclined hook beneath the leg engaged beneath the downwardly inclined part of the rim flange, said leg having a rib constituting a fulcrum portion in thrust engagement with the bowl rim at a radius less than that of the flange, said rib being discontinuous between said hook and said fulcrum.

2,652,218
HOSE NOZZLE SUPPORT
Charlie Dean, Charlotte, N. C.
Application January 23, 1948, Serial No. 4,020
1 Claim. (Cl. 248—36)

A hose nozzle support comprising a base, legs depending from said base for insertion into the earth, a vertical pivot pin projecting upwardly from said base, a plate supported on and overlying said base in spaced relation to it for rotation about and translation along said pin, a head on said pin spaced upwardly from said plate, a compression spring surrounding said pin between said plate and said head resiliently forcing said plate toward said base while permitting movement of said plate away from said base, a stop stem fixed on and projecting upwardly from said base, said plate being formed with a plurality of recesses for individually receiving said stop stem to retain said plate in any one of several selected positions relative to said base, a bifurcated bracket having its legs secured to said plate on opposite sides of said pivot pin to partially enclose said pin and spring, a horizontal pivot pin carried by said bracket above said vertical pivot



pin, a hose clamp mounted on said horizontal pivot pin to turn about a horizontal axis, a wing nut on said horizontal pivot pin for drawing portions of said bracket into engagement with said clamp to retain said clamp in selected position adjusted about said horizontal axis to a desired angle, said clamp including a fixed portion and a hinged portion shaped to surround a hose section, said hinged portion being notched at its outer edge, and a disconnectable spring pressed latch having an enlarged end for connecting said portions to clamp them against a hose, said notched outer edge being adapted to engage said enlarged end.

2,652,219
PORTABLE PLATFORM
Oscar F. Arthur, Connellsville, Pa., assignor to Tri-State Engineering Company, Washington, Pa., a corporation of Maryland
Application September 18, 1948, Serial No. 49,997
3 Claims. (Cl. 248—120)



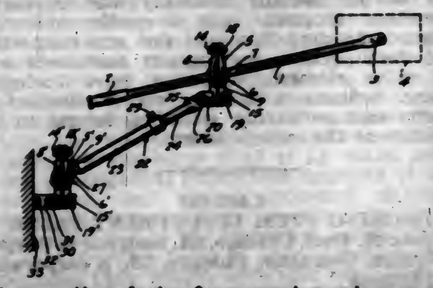
1. A portable platform comprising a deck, and legs each having a plurality of rod-like elements arranged in grouped formation and secured together at their lower ends, the upper ends of the elements being relatively flared and securing to the deck, a base having upwardly-extending supporting elements secured thereto in position to serve as leg extensions of the first-named legs, means for detachably securing vertically-alined upper and lower leg members together, the said means each comprising a sleeve rigidly connected to one group of leg members, in position to receive the ends of the other group of leg members, and locking members removably connecting the last-named leg members to the sleeves.

2,652,220
CAMERA SUPPORT MEANS FOR PHOTOGRAPHIC TRIPODS
Helmut E. B. Necht, Brooklyn, N. Y.
Application May 29, 1951, Serial No. 228,920
3 Claims. (Cl. 248—187)



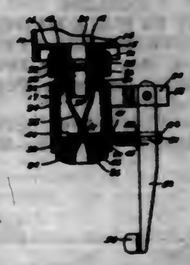
1. A camera support means for photographic tripods, said means comprising a pair of channel members and means on the end of one member to secure the member to the other member at right angles thereto in one of a plurality of positions along the length of the member, a slot opening in the base wall of each channel member extending substantially the length of the member, an over-riding bolt means in each said slot opening, one said bolt being adapted to engage the head of the photographic tripod to sustain its member horizontally thereon with the other member dependingly sustained vertically on the opposite end thereof and the other said bolt means being adapted to engage and secure a camera to the other member in any desired position along the length of the slot opening in the vertically sustained member, and means on the bottom end of said vertically sustained member to detachably secure thereon side arms extending oppositely at right angles therefrom having a length adapted to engage and rest on the tripod legs next adjacent the said member.

2,652,221
REARVIEW MIRROR MOUNTING
George L. Kampa, Minneapolis, Minn., assignor to Kampa Company, Inc., Minneapolis, Minn., a corporation of Minnesota
Application May 3, 1951, Serial No. 224,297
1 Claim. (Cl. 248—278)



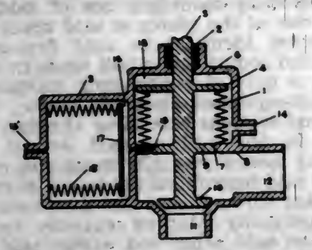
A mounting device for rear view mirrors; said device comprising an arm adapted to be secured to a rear view mirror; a bracket mounting said arm for longitudinal sliding and universal swinging and pivotal movements with respect thereto; said bracket comprising a ball made in segmental sections, said sections defining an axial passage through which said arm extends, a pair of spaced clamping plates defining a spherical recess containing said ball, and means including a clamping screw connecting said plates laterally outwardly of the ball and a clamping nut threaded on said screw; an extensible and retractable rod comprising a pair of telescoping rod sections; means pivotally mounting one of said rod sections to one of the plates of said bracket; a second bracket identical to said first-mentioned bracket and comprising a ball made in segmental sections, a pair of cooperating clamping plates and a nut-equipped clamping screw; the other of said rod sections extending through the axial passage in the ball of said second bracket; anchoring means pivotally mounting one of the plates of said second bracket to a base of support, the passage through said last-mentioned ball being diametrically enlarged centrally, and a collar element on said other rod within said enlarged portion of the passage, said collar element being of greater diameter than the normal passage whereby to limit axial movement of said other rod with respect to said ball.

2,652,222
COLLAPSIBLE VALVE FOR DISPENSING APPARATUS AND THE LIKE
David A. McCowan, Toronto, Ontario, Canada
Application August 2, 1949, Serial No. 108,182
4 Claims. (Cl. 251—5)



1. A valve for a liquid dispensing device adapted to be removably secured to said device, comprising a housing formed with an enlarged chamber and with a relatively large downwardly pointing mouth, a rigid sleeve removably carried by said housing and having a downwardly projecting end extending into said housing and in registration with the mouth thereof, a flexible tube carried by said sleeve and disposed within said housing, said sleeve having its lower end extending through the mouth of the housing, a housing cap screwthreaded into the mouth of the housing for supporting the lower end of said tube, said cap having a flange extending over the lower surface of said housing, said housing being formed in its lower end with a laterally arranged slot extending through one side of the wall toward the opposite side thereof, means for compressing said flexible tube to control the flow of liquid therethrough, comprising a stationary member and a movable member, each of said members being carried by said housing and disposed within the slot thereof, spring means for urging said movable member toward said stationary member, means for actuating said movable member to its open position, and detent pins carried by said housing and extending through said stationary member, said pins terminating at the lower surface of the housing and being located in that area of the lower face of the housing which is covered by the flange of the cap, whereby the pins will be retained in position.

2,652,223
SEALING OF FLUID SYSTEMS
Melville F. Peters, East Orange, N. J.
Application January 2, 1951, Serial No. 203,902
6 Claims. (Cl. 251—31)



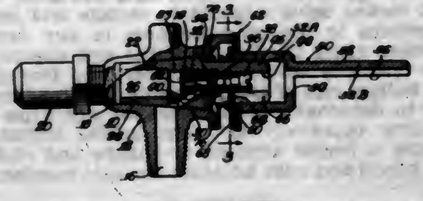
1. In a fluid system, a main flow control valve stem having upper and lower valve heads, a primary sealing means located above said upper valve head, and effective throughout the period of flow through said lower valve head, said upper valve head closing off flow into said primary sealing means when said lower valve head is in flow-permitting position, and a secondary sealing means communicating with the interior of said primary sealing means to relieve excessive pressure within said primary sealing means.

2,652,224
IMPROVEMENT IN WALL HYDRANT OF THE NONFREEZING TYPE
Wayne B. Noland, Des Moines, Iowa, assignor to Woodford Hydrant Company, Des Moines, Iowa, a corporation of Iowa
Application November 2, 1949, Serial No. 125,009
2 Claims. (Cl. 251—35)



1. A wall hydrant of the non-freezing type comprising a head casting member provided with a fluid discharge outlet; a tubular valve seat member having a fluid opening therethrough; a tubular fluid conduit, in concentric relation with said tubular valve seat member, connected at its outlet end to said head casting member and in communication with said fluid outlet thereof and at its inlet end to said valve seat member and in fluid communication therewith; a valve seat formed in said valve seat member at the outlet end thereof and provided with an opening therethrough; an external screw thread on said valve seat member; a non-threaded tubular extension portion between said outlet end of said valve seat member and said external screw threaded portion, said non-threaded tubular extension portion of said valve seat member being of lesser diameter than the outside diameter of said external screw thread; a tubular valve retainer member, in concentric relation with said tubular fluid conduit, provided with an internal screw thread at an enlarged diameter inlet and adapted to engage said external screw thread on said valve seat member; a valve head member in said valve retainer member adapted to engage said valve seat to open and close the opening through said valve seat member; a reduced outside diameter portion at the outlet end of said valve retainer member; a fluid opening formed in said valve retainer member at the portion thereof immediately adjacent said reduced diameter portion of said valve retainer member between the valve head member and the threaded inlet end of said valve retainer member, said fluid opening being in communication with said tubular fluid conduit; and means to actuate said valve retainer members to selectively move said valve head member to open position and to closed position on its valve seat; the internal diameter of said tubular fluid conduit being only slightly greater than the outside diameter of said valve retainer member at its enlarged diameter inlet end portion provided with the internal screw thread; whereby, when said valve head member is in open position, fluid may flow through the outlet end of the fluid opening through said valve seat member, and through the fluid opening in said valve retainer member, and through the space between the tubular fluid conduit and the concentric reduced outside diameter portion at the outlet end of the valve retainer member, and through the tubular fluid conduit to said fluid discharge outlet in said head casting member.

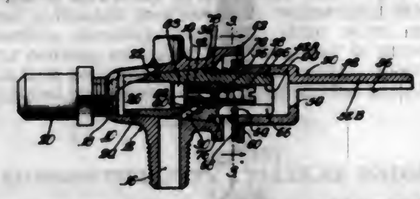
2,652,225
LOCKING STEM ADJUSTMENT VALVE
Vincent C. Petersen, Carney, Mich., and Henry H. Nadasdy, Chicago, Ill., assignors to Harper-Wyman Company, Chicago, Ill., a corporation of Illinois
Application November 23, 1948, Serial No. 61,652
4 Claims. (Cl. 251—152)



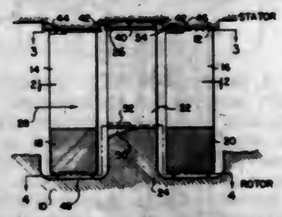
1. A stem adjustment high-low valve including a valve element, an operating tubular stem portion extending outwardly from the element having an axially extending slot therein, a second tubular stem portion fitting movably but relatively closely around said first portion, a locking and driving washer encircling said extension and secured to said second portion and having radially inwardly and outwardly extending tongues, said inwardly extending tongue extending into said slot and connecting said stem portions for angular movement with the valve element, and the valve including means defining a locking recess adapted to receive said outwardly extending tongue in one position of the valve element.

2,652,226
LOCKING STEM ADJUSTMENT VALVE
Norman M. Huff, Chicago, Ill., assignor to Harper-Wyman Company, Chicago, Ill., a corporation of Illinois
Application November 23, 1948, Serial No. 61,604
7 Claims. (Cl. 251—163)

7. A locking type gas valve including a valve element rotating stem portion, a second stem portion driving the first and closely surrounding the first portion and axially movable relative to it, two cooperating members including a first member secured to said second stem portion and a second member fixedly mounted on the valve and located adjacent the outer side of said first member, one of said members having a radially extending locking projection and a second projection spaced from the first and the other of said members having spaced recesses adapted to receive said locking projection and second projection, and spring means acting on said second stem portion and first member for yieldably holding said locking projection and second projection in said recesses, and said two members having cooperating bearing surfaces cooperating with said projections for holding said second stem portion in coaxial relation relative to said first portion when said projections are both in and out of said recesses.

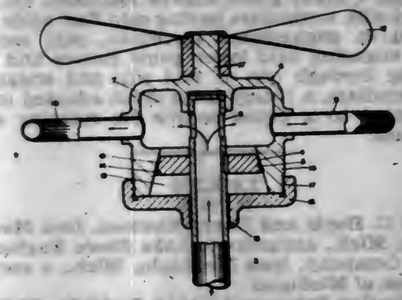


2,652,227
TURBINE
Gustav Karl William Beestad, Lidingo, and Teodor Immanuel Lindhagen, Stockholm, Sweden, assignors, by mesne assignments, to Jarvis C. Marble, New York, N. Y., Leslie M. Merrill, Westfield, N. J., and Percy H. Batten, Racine, Wis., trustees
Application January 25, 1947, Serial No. 724,278
In Sweden November 26, 1946
7 Claims. (Cl. 253—69)



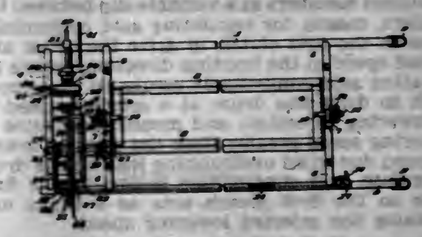
1. A multiple stage turbine comprising two relatively rotatable carrying members, a first series of blade rings carried by one of said members, a second series of blade rings carried by the other of said members, the rings of said two series alternating and providing between the blades thereof a main expansion passage for flow of motive fluid, the blades of said first series being positioned to discharge fluid at an outlet angle having a peripheral component of a given sense with respect to the axis of rotation of the turbine, the blades of said second series being positioned to discharge fluid at an outlet angle having a peripheral component opposite to said given sense, and means providing channels through said rings adjacent to the ends of the blades connected to the respective carrier members, said channels being in open communication throughout their length with said main passage and having inlet portions located to receive leakage fluid passing between the preceding blade ring and the carrier member with respect to which said preceding blade ring is relatively rotatable, and said channels having inlet angles directed in the same sense with respect to said axis of rotation and of substantially the same magnitude as the outlet angles of the blades of the next preceding blade ring of the same series.

2,652,228
BEARING CONSTRUCTION
Richard H. Merrick, Syracuse, N. Y., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware
Application January 11, 1950, Serial No. 137,981
7 Claims. (Cl. 253—175)



1. In a bearing for rotating mechanism, the combination of a hollow stationary shaft through which liquid is passed under pressure; a rotor surrounding the shaft adapted to rotate thereabout and to move axially thereof, a chamber in said rotor, said shaft having an opening therein connecting the chamber and the interior of the shaft; means on said shaft adapted to form a support for said rotor; said means having a wall in axial engagement with the inner wall of the rotor to limit axial movement of the rotor, a second chamber in said rotor separated from the first chamber by said support means, said second chamber having an inlet connecting it to the first chamber when the device is in operation, the inlet being formed between the wall of the support means and the inner wall of the rotor upon upward movement of the rotor when the device is in operation, the area of the inlet varying in accordance with the difference in pressure between the first and second chambers; said second chamber having an outlet of fixed area whereby a predetermined pressure difference is maintained between the first and second chambers.

2,652,229
WAGON HOIST
Thomas G. Walker, Nishnabotna, Mo.
Application June 21, 1949, Serial No. 100,426
2 Claims. (Cl. 254—47)



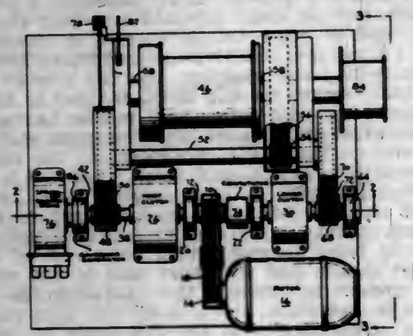
1. In a hoist, a base frame including a pair of spaced parallel tubular sills, a hitching clevis connected to each of said sills, a channel beam extending between said pair of sills and secured thereto, a pair of spaced parallel crossbars extending between said sills and secured thereto, a support member extending upwardly from each of said crossbars and secured thereto, a pair of spaced guide rails mounted in each of said support members, a rack for supporting the wheels of a vehicle including a pair of spaced parallel beams, bars extending between said last named

beams and secured thereto, a stud secured to each end of the rack and slidably engaging said guide rails, a grooved wheel connected to each of said studs, a first and second cable connected to said support members and trained under said pulleys, upper guide sheaves journaled at the top of the support members and having the cables trained thereon, a lower guide sheave journaled on one of said sills, a windlass having said first cable arranged in engagement therewith, said second cable engaging said lower guide sheave and extending through one of said sills and engaging said windlass, a rotary cable drum adapted to be connected to a power source for rotating said windlass.

2,652,230
WINCH

Albert C. Hoyle and Harry Knutson, Iron Mountain, Mich., assignors to Lake Shore Engineering Company, Iron Mountain, Mich., a corporation of Michigan

Application February 16, 1949, Serial No. 76,725
3 Claims. (Cl. 254—173)



1. A winch comprising, in combination, a motor, first and second clutches having input and output members, the input members being driven by said motor, a drum, the output member of the first clutch being connected to said drum to rotate the drum in the hoisting direction, the output member of the second clutch being connected to said drum to rotate the drum in the lowering direction, each clutch including controllable means for transmitting force between the input and output members at a variable slip between the members, means for regulating said controllable means in the first clutch to drive the drum at a selected speed in the hoisting direction, means for regulating said controllable means in the second clutch to drive the drum at a selected speed in the lowering direction, and means responsive to a lowering speed greater than the selected lowering speed due to an overrunning load on the drum to regulate said controllable means in the first clutch so the first clutch acts as a brake and maintains the selected lowering speed.

2,652,231
PUMPING ASSEMBLY

Roy A. Smith, Oklahoma City, Okla.

Application October 3, 1949, Serial No. 119,272
4 Claims. (Cl. 255—28)

1. A deep well pump-actuating assembly comprising: a polish rod extending through a normal well head assembly, the lower end of said polish rod being connected to a plurality of consecutive sections of wire cable, said sections being composed of right-hand lay cable and left-hand lay cable sections alternately, said sections being connected by couplings, each including a threaded

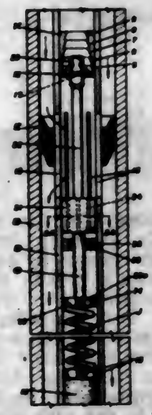


connector adapted to receive the threaded end of a normal sucker rod; and a sucker rod connected to said actuating assembly.

2,652,232
CORE RECOVERY INDICATING DEVICE

Hal H. Holland, Jr., Corpus Christi, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application July 14, 1952, Serial No. 298,781
8 Claims. (Cl. 255—72)



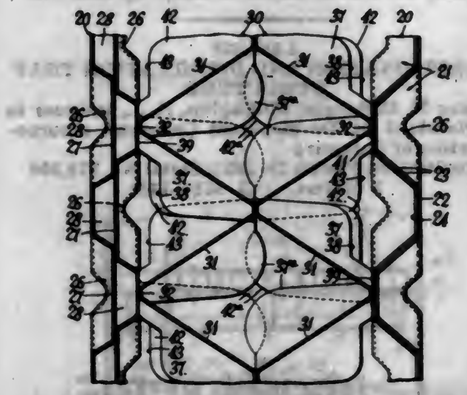
1. A core barrel for use in a drill stem adjacent a drill bit comprising, in combination, an elongated tubular barrel adapted to fit loosely in the drill stem with clearance between the outer surface of the barrel and the inner surface of the drill stem for the passage of drilling mud, said barrel having a partition to divide it into a lower compartment fluidly sealed from an upper compartment and having at least one longitudinally extending slot in its wall above said partition, releasable latching means mounted on said barrel for latching it to said drill stem, a packing member mounted on said barrel in such a way that at least a portion of said longitudinally extending slot is exposed below said packing member, a longitudinally movable slide valve member mounted in the upper compartment in slidable

sealing contact with the inner wall of said barrel and arranged to be moved longitudinally from a first position to a second position in which more of the slot area below the packing member is covered than in said first position, a contacting member slidably fitting in the lower end of said barrel in the lower compartment adapted to be pushed upwardly as the core enters said barrel and a linkage mechanically connecting said contacting member with said slide valve member for causing said slide valve member to move from its first position to its second position upon longitudinal movement of said contacting member.

2,652,233
AUTOMOTIVE TYPE CELLULAR RADIATOR CORE

Stanislaus Pryborowski, Kenmore, N. Y., assignor to Fedders-Quigan Corporation, Buffalo, N. Y., a corporation of New York

Application January 2, 1951, Serial No. 203,342
6 Claims. (Cl. 257—130)



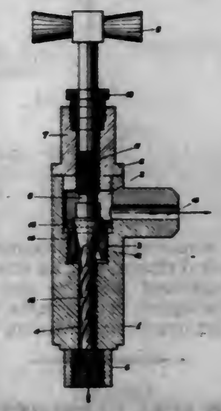
1. A radiator core comprising a plurality of pairs of imperforate water line ribbons joined along their marginal portions and spaced therebetween to provide water passages, and heat radiating fin ribbon interposed between said water passages, said fin ribbon having a generally zigzag formation longitudinally thereof and formed transversely with bumps alternately projecting in opposite longitudinal directions, said bumps being arranged in a series of longitudinal rows interconnected transversely by oppositely inclined spacer sections having apices, said bumps on one face of the fin ribbon merging at their tops into elevated shoulders which lie in a common plane with the apices of the spacer sections and the marginal portions of the ribbon, said fin ribbon on said one face contacting adjacent water line ribbons in said common plane thereby to provide substantially full line contact between water line ribbon and fin ribbon from face to face of the core, the opposite face of the fin ribbon being in contact with a like face of a companion fin ribbon, said bumps on said first named one face being disposed in spaced relation to the water line ribbon.

2,652,234
HOMOGENIZER

Bernard Feldmann, Rehovoth, Israel

Application February 27, 1951, Serial No. 213,023
In France March 31, 1950
2 Claims. (Cl. 259—4)

1. A homogenizer comprising an oblong main body with through-going cylindrical bore including three coaxial sections, said sections constituting a feed channel, an internally threaded homogenizing chamber of larger diameter than the feed channel, and a delivery chamber of larger diameter than the homogenizing chamber; a plug closing the body at the end adjoining the delivery chamber and having a tapped bore coaxial with the bore of the body; a spindle extending through the bores of the body and plug projecting out of the plug, a handle on the projecting portion, the spindle including a threaded

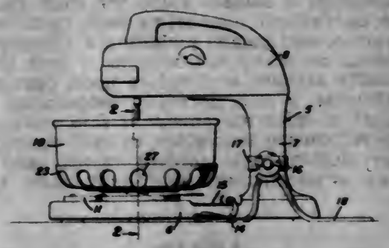


length screwed into the tapped bore of the plug; a second plug including a conical female surface coaxial with the bore of the body screwed into the homogenizing chamber; at least one spiral guiding rib made integral with the portion of the spindle located in side the feed channel; a conical male member on the portion of the spindle adjacent the guiding rib and located inside the homogenizing chamber for cooperation with said female surface; and a lateral outlet branched off from the delivery chamber.

2,652,235
HEATING ATTACHMENT FOR ELECTRIC FOOD MIXERS

Beatrice L. Samuelsen, Ketchikan, Territory of Alaska

Application November 29, 1951, Serial No. 258,280
2 Claims. (Cl. 259—84)



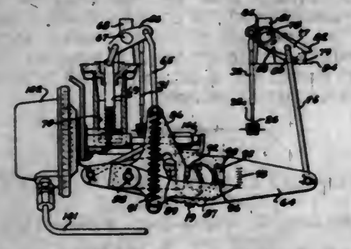
1. A heating attachment for electric food mixers having a base provided with a central opening, said attachment comprising a hot plate of insulation material having a tapered hub at its underside positioned in the opening for centering the hot plate on the base, a turntable having a shaft projecting downwardly therefrom, and tapered bearing means for the shaft and adapted for wedging self-supporting engagement in the central opening to rotatably support the turntable in an elevated position above the base.

2,652,236
MANIPULATIVE MIXER
James Lum, San Francisco, Calif.
Application July 11, 1952, Serial No. 298,370
2 Claims. (Cl. 259—144)



1. A mixer comprising the combination with a handle of a spiral ribbon having one end mounted upon and supported only by one end of said handle and zigzagged in alternate arcuate turns and forming an open-work mixing element.

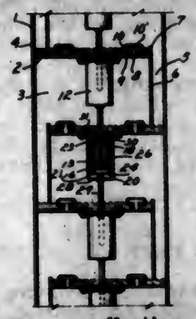
2,652,237
TWO FUEL CARBURETOR
Henry A. Beller, Pontiac, Mich., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application June 19, 1950, Serial No. 168,978
20 Claims. (Cl. 261—18)



13. In a carburetor, a mixture conduit, a throttle therein, a pair of fuel chambers, a fuel supply passage leading from each chamber into said conduit, a control valve for each passage, means operatively connecting said throttle and said valves, said means including a yielding part and being normally shiftable as a unit to differentially actuate said valves upon opening of said throttle, a stop normally cooperating with said part to limit movement of said valves, and means responsive to suction in said conduit for further shifting said control valves, said part yielding to permit such additional valve movement.

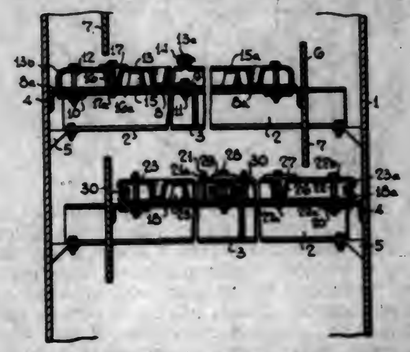
2,652,238
BUBBLE TRAY WATER DECANTER
Humes B. Manley, Powell, Wyo.
Application June 10, 1950, Serial No. 167,431
4 Claims. (Cl. 261—114)

1. In an apparatus of the character described including a bubble tray having an opening in said tray, a flume depending within said opening, and having an annular flange seated against the bottom of said tray, a receptacle surrounding the flume and having seating contact with said flange, a spider bridging said opening on the upper side of said tray, a rod connecting the spider with said receptacle for retaining the flume and receptacle in position with respect to said tray, said receptacle having outlets adja-



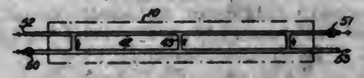
cent said flange, a collecting receptacle surrounding the first named receptacle for receiving overflow through said outlets, and means supporting the last named receptacle by said rod.

2,652,239
FRACTIONATION AND DISTILLATION TRAY STRUCTURE
James M. Ballenger, Millington, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application March 29, 1952, Serial No. 279,300
7 Claims. (Cl. 261—114)



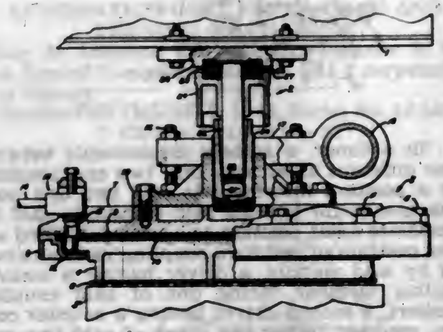
1. A fractionating tray structure comprising upper and lower plate members disposed in opposed parallel spaced relation one to another, a plurality of tubular chimney elements opening through each plate member, each leaving a peripherally serrated end edge portion, the chimney elements of one member being offset with relation to those of the other member and extending into surface contact with the opposite plate member, and means for joining said members rigidly one to another.

2,652,240
SKID RAIL STRUCTURE FOR FORGE FURNACES
John D. Nesbitt, Sylvania, Ohio, assignor to Surface Combustion Corporation, Toledo, Ohio, a corporation of Ohio
Application November 20, 1950, Serial No. 196,582
1 Claim. (Cl. 263—6)



Skid rail structure for supporting work pieces in a furnace comprising a plurality of substantially parallel internally cooled skid rails for conveying work pieces end to end through the furnace, cross pieces interconnecting said rails at longitudinal intervals to keep them from spreading, said cross pieces being tubular and so connected that cooling fluid flowing through the rails may also flow through the cross pieces, means forming a flow restricting orifice in one rail at the inlet end thereof and means forming a flow restricting orifice in an adjacent rail at the outlet end thereof whereby cooling fluid entering the unrestricted end of one skid rail is diverted in part through each cross piece and thence flows through the unrestricted outlet of the adjacent skid rail.

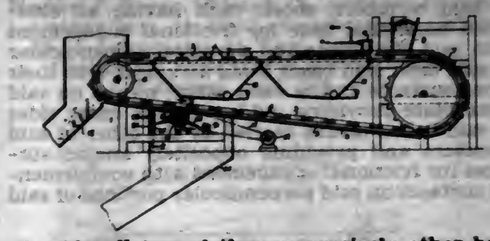
2,652,241
STRUT PLATFORM SUPPORT
Lawrence S. Williams, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application January 6, 1951, Serial No. 204,789
5 Claims. (Cl. 265—47)



1. A support for carrying a load receiver on a hydraulic capsule, comprising, a member supported on the capsule, the member having an upwardly opening socket, a bearing surface in the bottom of the socket, a strut having its lower end supported on the bearing surface in the bottom of the socket said structure extending upwardly from said member, and a bearing plate attached to the load receiver and supported on the strut, said bearing plate having a surface to engage the upper end of the strut and the strut having an upper end cooperating with the bearing plate, at least one of the cooperating surfaces being convexly curved with a radius of curvature substantially greater than half the length of the strut to permit rolling movement, and at least one of the juxtaposed surfaces of the bearing in the socket and the end of the strut therein being convexly curved with a radius of curvature substantially less than half the length of the strut to permit rolling movement of the strut in the socket.

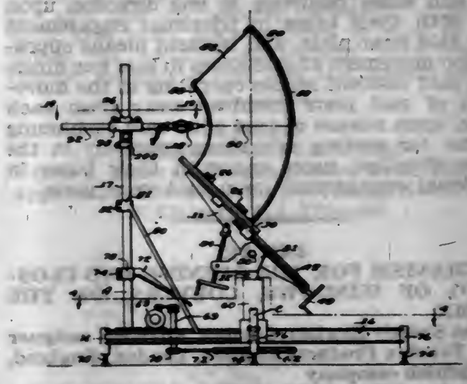
2,652,242
DEVICE FOR CLEANING GRATE BARS OF SINTERING MACHINES
Ancel L. Sapp, Blackwell, Okla., assignor to The American Metal Company, Limited, New York, N. Y., a corporation of New York
Application March 6, 1948, Serial No. 13,267
10 Claims. (Cl. 266—21)

1. In an apparatus for cleaning grate bars of sintering machines, in combination, movable pallets holding movable grate bars, said bars being mounted substantially parallel to the motion of said pallets, and means to gradually lift and lower at least one of said grate bars on one



of said pallets and then successively other bars on the same pallet.

2,652,243
VERTICAL WELD L CUTTING AND BEVELING MACHINE
Wade R. Reed, Tulsa, Okla.
Application October 17, 1951, Serial No. 251,735
8 Claims. (Cl. 266—23)

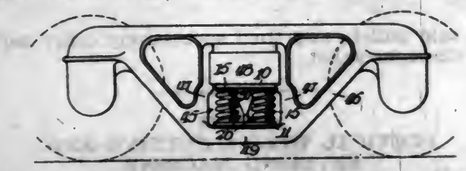


1. In a weld L cutting and beveling machine, the combination which comprises a base frame having horizontally positioned radially disposed arms, leveling screws threaded in the lower surfaces of the arms, a vertically disposed cylinder mounted on said base frame, a spindle having a head on the upper end journaled in said cylinder, a tilting slide bar pivotally mounted in the head of the spindle, a slide plate slidably mounted on said slide bar, a table slidably mounted on said slide plate, an adjusting screw for adjusting the position of the table on the slide plate of the tilting slide bar, an adjusting screw for adjusting the angle of the table, slide plate and slide bar in relation to the spindle, means positioned on the base frame for rotating the spindle, slide plate, and table, a vertically disposed post spaced from the cylinder and spindle and extended upwardly from the base frame, clamping screws mounted on the table and positioned to rigidly clamp a weld L to the table, a rod adjustably mounted by clamps on the post, and a cutting torch carried by the rod and positioned to operatively engage a tube turn positioned on the table.

2,652,244
SPRING PACKAGE
Gust J. Christensen, Park Ridge, Ill., assignor to Standard Car Truck Company, Chicago, Ill., a corporation of New Jersey
Application August 6, 1949, Serial No. 108,874
7 Claims. (Cl. 267—9)

1. A spring package of the kind described and embodying therein upper and lower plate mem-

bers, resilient cushioning members between said members, a horizontal wear plate carried by one of said members, shoes, each having an elongated horizontal base for frictional engagement with said wear plate and a portion perpendicular to said base, said bases being arranged with their inner surfaces facing each other, means on said wear plate providing guides for the outer sides of said bases, means carried by the other of said members and providing oppositely angled surfaces for frictional engagement with complemental surfaces on said perpendicular portions of said



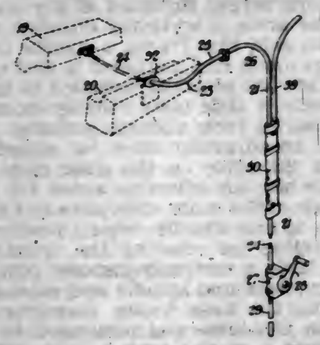
shoes and operative in the movement of said members toward each other, in the compression of said cushioning means under load for moving said shoes relatively in one direction upon and with their bases in frictional engagement with said wear plate, and resilient means opposing the movement of said shoes in said one direction, said resilient means operating in the movement of said plate members away from each other, upon release of load upon said cushioning means, for moving said shoes relatively in the other direction upon and with their bases in frictional engagement upon said wear plate.

2,652,245

MECHANISM FOR THE OPENING AND CLOSING OF WINDOWS, LOUVERS, OR THE LIKE

James Sydney Bentley, London, England, assignor to Teleflex Products Limited, London, England, a British company

Application April 24, 1951, Serial No. 222,670
In Great Britain April 24, 1950
5 Claims. (Cl. 268—21)



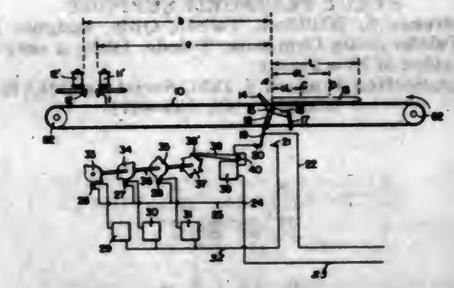
1. Mechanism for the opening and closing of windows, louvres, shutters or the like which turn upon an axis, and of the type operated by a flexible multi-stranded master cable having spaced helical projections formed on its exterior surface, said cable being reciprocally mounted in a fixed guiding conduit and supporting said cable so that its axis is substantially normal to the plane of the window, comprising connecting casing means through which the master cable and at least one similarly formed subordinate cable freely pass, said subordinate cable reciprocally mounted in a guiding conduit supporting said cable so that its axis is substantially normal to the plane of a window, and at least one toothed coupling member located within the casing means between the master cable and the subordinate cable to enable movements of the former cable to be imparted to the latter cable.

2,652,246

FOLDING MACHINE CONTROLS

Benjamin S. Kagan, deceased, late of Rock Island, Ill., by Esther E. Kagan and Zena S. Kagan, Rock Island, Ill., heirs, assignors to American Machine and Metals, Inc., New York, N. Y., a corporation of Delaware

Continuation of application Serial No. 722,252, January 15, 1947. This application May 8, 1953, Serial No. 353,872
32 Claims. (Cl. 270—81)



1. In a timer, a spindle displaceable between three different axial positions, two end positions and a position intermediate said two end positions, means for holding said spindle in said intermediate axial position in a predetermined angular position of rest, two coupling members carried by said spindle, a driver having a counter coupling member facing one of said coupling members, a second driver having a counter coupling member facing the other of said two coupling members and operating at a speed different from that of the first named driver, means for shifting said spindle from its intermediate axial position into its one end position to bring the one of said two coupling members into engagement with said first named driver, means for terminating the engagement of the coupling member just mentioned with the counter coupling member on said first named driver after less than a full revolution of said spindle to allow the spindle to move from its one axial end position past said intermediate position to the second axial end position wherein the other coupling member is in engagement with the counter coupling member on said second driver, means for restoring the spindle to said intermediate axial position upon said spindle completing a full revolution from said predetermined angular position of rest, actuating means carried by said spindle and apparatus operating means placed at a fixed angular position in the path along which said actuating means revolve when said spindle is in said second axial end position.

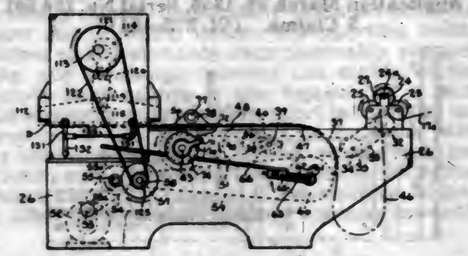
2,652,247

FEED MECHANISM FOR CARTON BLANK FORMING APPARATUS

Gideon Kane, Green Bay, Wis.

Application May 29, 1950, Serial No. 165,015
4 Claims. (Cl. 271—2.4)

1. Paper web feeding mechanism for feeding a predetermined length of paper web previously perforated along one edge thereof to a press comprising intermittently driven draw rolls and an intermittently driven feed belt having pins engageable in the perforations on said web and having a portion active on the same section of the web as said draw rolls, said intermittent feed operating during the non-operating stroke of said



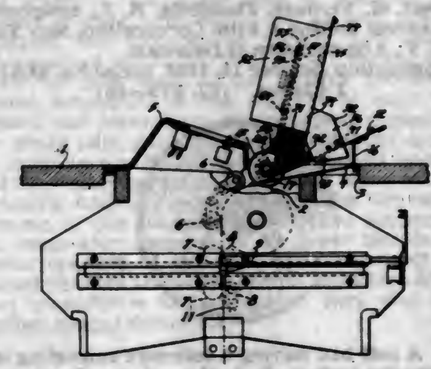
press and an intermittently operated shaft operatively connected to said draw rolls and the pin belt for simultaneously operating said rolls and belt.

2,652,248

AUTOMATIC SHEET SEPARATING AND FEEDING MECHANISM

Elmer L. Johnson, Chicago, Ill., assignor to Bell & Howell Company, Chicago, Ill., a corporation of Illinois

Application October 9, 1948, Serial No. 53,646
7 Claims. (Cl. 271—39)



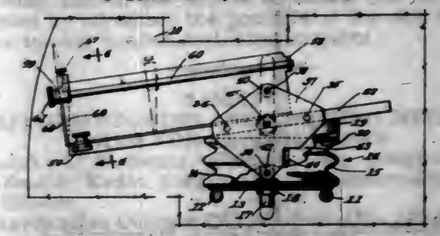
1. In an automatic sheet feeding mechanism adapted for use on a sheet handling machine provided with a horizontal driven rotatable sheet feed drum and pressure gripping means for gripping sequentially fed sheets between it and said drum for the feeding of the sheets, the combination of sheet stack supporting and advancing means comprising a support plate for supporting a stack of sheets on edge and arranged with one end thereof in adjacent tangential sheet feeding relation with the upper portion of said drum, a rotatable feed roll arranged transversely of and wholly above said support plate on an axis inwardly adjacent said end of said support plate and against which said sheet stack is advanced, and feed roll drive means for driving said feed roll from said feed drum for the sequential feeding of sheets from said sheet stack to said feed drum and comprising a rotatable roller arranged on an axis above said support plate and inwardly adjacent said end thereof and projecting below said support plate and having rolling engagement downwardly on said feed drum.

2,652,249

STACK SUPPORT FOR SHEET FEEDERS

Herbert F. Bruns, Chicago, Ill., assignor, by mesne assignments, to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia

Application April 8, 1949, Serial No. 86,225
8 Claims. (Cl. 271—61)



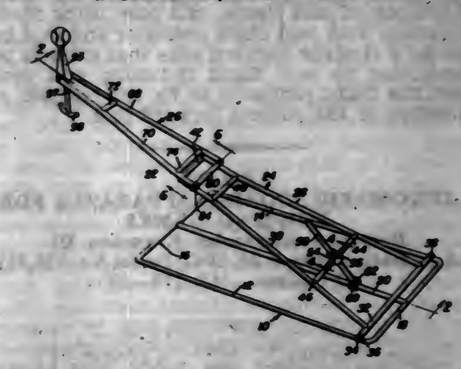
1. A stack supporting feed table for a duplicating machine or the like, comprising a plate in its upper surface adjacent the rear end thereof, a pair of blocks slidable in the slot, means for clamping the blocks in adjusted position in having a transversely extending undercut slot the slot, and an upright, forwardly extending stack side guide plate secured to each of said blocks for angular adjustment with respect thereto independent of said last named means.

2,652,250

BASEBALL BATTING TEE

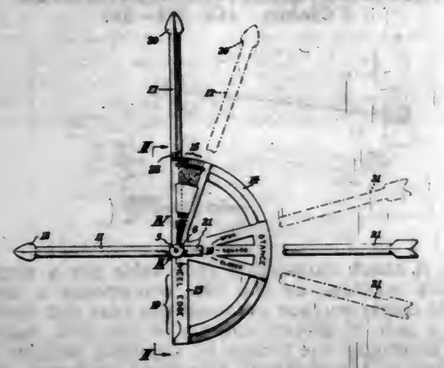
Orin J. Alder and Frank Jacobs, Boise, Idaho

Application November 27, 1950, Serial No. 197,664
2 Claims. (Cl. 272—36)



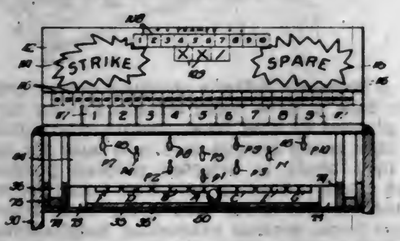
1. A baseball batter's training device comprising a base, a first boom section having its inner end pivoted to said base, means interconnecting said first boom section and said base for holding the first boom in selected pivoted positions, a hinge pin mounted on said first boom section intermediate the inner and outer ends thereof, a second boom section extending longitudinally of said first boom section, the inner end of said second boom section overlapping the outer end of said first boom section and being pivotally connected to said hinge pin, the overlapping ends of said sections constituting a stop for limiting pivotal movement of the second section in one direction, and means mounted at the outer end of said second section for releasably holding a ball, said base including forward and rearward ends and a cross member extending between and interconnecting said ends, said first boom section being pivoted to said base adjacent the rearward end thereof and extending toward the forward end, said first mentioned means including a rod pivotally secured to said cross member, a clamping sleeve rotatably carried by said boom section, said rod being received in said clamping sleeve.

2,652,251
GOLF INDICATOR APPARATUS
Alfonso Molinar, Mexico City, Mexico
Application January 4, 1952, Serial No. 264,957
2 Claims. (Cl. 273—35)



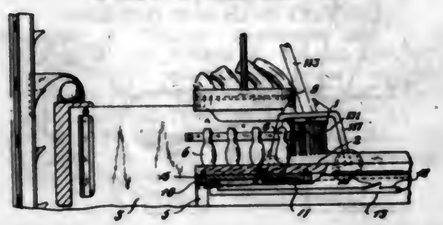
1. A golf direction and stance indicator comprising a sleeve having a substantially vertical bore, substantially horizontal flanges at the top and bottom of said sleeve, said flanges extending outwardly of said bore, a lower indicator arm pivotally mounted on said sleeve in frictional contact with the flanges at the bottom of said sleeve, a base on said sleeve above said lower indicator arm, a flight indicator fixed to said base, and an upper indicator arm pivotally mounted on said sleeve in frictional contact with the flanges at the top of said sleeve, said base being formed integrally with said flight indicator and said base having a straight forward edge that extends perpendicular to said flight indicator and coacts with the flight indicator to fix the position and direction of the golfer's forward foot.

2,652,252
AUTOMATIC SCORING APPARATUS FOR BOWLING GAMES
Delbert S. Alexander, Evanston, Ill.
Application March 20, 1947, Serial No. 735,821
19 Claims. (Cl. 273—38)



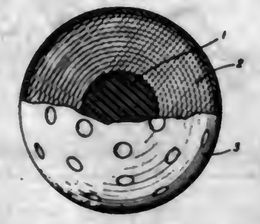
1. In a bowling game, the combination of a bowling alley along which a bowling projectile is adapted to be propelled, electrically lighted simulated bowling pins spaced above the surface of the alley adjacent the rear end thereof, whereby the bowling projectile can pass under said simulated pins in the bowling operation, switch means adapted to be actuated by the projectile and arranged to control the illumination of said simulated pins, and automatic scoring apparatus responsive to said switch means for automatically registering the score, including means for automatically storing strikes and spares until the proper time for their scoring after the completion of one or more subsequent bowling operations.

2,652,253
PIN RETAINING MEANS FOR BOWLING ALLEYS
Henry S. Johns, Cleveland Heights, and William H. Johns, Gates Mills, Ohio
Application March 18, 1950, Serial No. 150,361
3 Claims. (Cl. 273—54)



1. In a bowling alley having continuous fixed wooden floor means extending over the bowling and pin receiving areas thereof, said bowling alley being adapted for use with bowling pins having metallic means in the bases thereof, a magnetizable plate positioned below said wooden floor means and extending the width of the alley over the length thereof on which bowling pins are normally positioned, and means for magnetizing said plate at desired times whereby standing bowling pins can be retained in exact locations when said plate is energized.

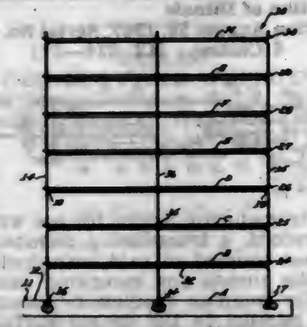
2,652,254
GOLF BALL
Robert M. Verburg, Plainfield, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application October 14, 1948, Serial No. 54,418
3 Claims. (Cl. 273—62)



3. A golf ball having a soft core consisting of a polymerized vinyl alkyl ether of specific viscosity from about 0.2 to 0.9 and a body of elastic thread wound tightly about the core.

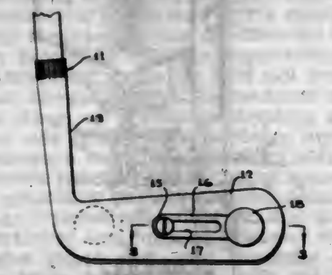
2,652,255
THREE-DIMENSIONAL CHECKER OR CHESS GAME BOARD
Charles D. Rutz, San Diego, Calif.
Application September 1, 1950, Serial No. 182,782
1 Claim. (Cl. 273—136)

In a knock-down game board construction of the tiered type, a flat, square base having openings formed in its upper surface at the several corners thereof and having a center opening equidistant from the several corner openings; a first pair of vertical, spaced supports formed of rod material and having their lower ends removably engaged in the corner openings of one side of the base; a second pair of vertical, spaced supports formed of rod material and having their lower ends removably engaged in the corner openings of the opposite side of the base, each support of a pair being bent at spaced intervals along its length in the direction of the opposite support of the same pair to form a plurality of vertically spaced, U-shaped crimps therein with the crimps of each support being back-to-back with the crimps of the other support of the same pair, each crimp lying in a vertical plane and having vertically spaced, horizontally extended arms the upper one of which defines a supporting ledge; endless elastic elements each removably engaged with and tensioned between the bights of the back-to-back crimps of the supports of a pair, said elements urging each support laterally in the direction of the other support of the same pair; a plurality of vertically spaced, square tiers positioned upon the supporting ledges in horizontal planes above the base and respectively formed at their corners with notches opening inwardly



from parallel opposite sides thereof and proportioned for removable engagement with the several supports, the inner ends of each of said notches having side walls, the several notches engaging the supports to prevent said lateral movement of the supports of a pair toward each other, the side walls of the notches preventing lateral movement of one support of each pair toward and away from the adjacent support of the other pair, each of said tiers having a center opening equidistant from its several notches and the center openings of the tiers being aligned vertically with one another and with the center opening of the base; and a vertical supporting rod removably engaged at its lower end in the center opening of the base and removably extended through the several center openings of the tiers to stabilize the assembled tiers and base against lateral deviation.

2,652,256
WHIP ACTION DEVICE FOR THE HEAD OF GOLF CLUBS
Wilbur H. Thomas, Costa Mesa, Calif.
Application September 14, 1951, Serial No. 246,577
3 Claims. (Cl. 273—170)



1. In a golf club, a shank, a head projecting laterally from said shank, a headed fastening member threadedly engaged with said head at its rear surface, an arm of resilient material formed adjacent one end with a longitudinal slot, said fastening member extending through the slot, whereby the arm is adjustably secured to said head adjacent said one end thereof, and a weight member secured to said arm adjacent its other end, whereby the weight member flexes outwardly during a swing of the club, providing a whip action, the degree of which can be adjusted by adjusting the position of the slot relative to said headed fastening member.

2,652,257
RECORD STORING AND EJECTING MECHANISM FOR PHONOGRAPHS
Ralph A. Mullaney, Chicago, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application October 18, 1949, Serial No. 121,973
4 Claims. (Cl. 274—10)

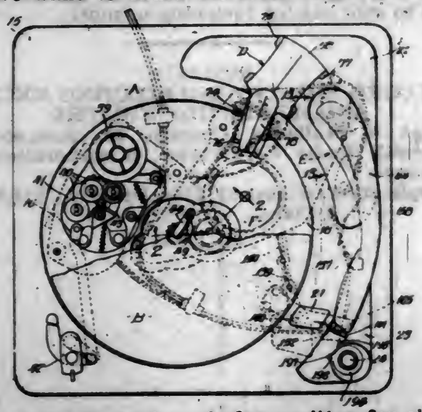


1. A record storing and ejecting mechanism for a phonograph comprising: a center drop spindle having an upper section and a vertically restrained, offset, hollow lower section, said upper section being provided with a cam-receiving recess in a portion of the base thereof in alignment with said lower section, and a segment of the upper portion of said lower section being cut away to define an arcuate path of travel for a cam from an initial position in which the lowermost record of a stack is supported on said lower section to a terminal position in which said lowermost record of said stack is ejected from said stack; an ejector shaft rotatably supported within said lower section; a vertically movable ejector cam mechanically supported by the upper extremity of said shaft and projecting into the cut-away portion of said lower section to travel between said initial and terminal positions in response to rotational displacement of said shaft; a spring, biasing said cam upwardly with a force less than the weight of a preselected number of records; a motion-limiting stop for limiting the upward travel of said cam to a distance less than the thickness of one record; and a driving motor mechanically coupled to said shaft to rotate it and said cam to effect a record feeding cycle.

2,652,258
PHONOGRAPH
Colin B. Dale, Oak Park, and Arne L. Berg and Harry H. Wagner, Chicago, Ill., assignors to Webster-Chicago Corporation, Chicago, Ill., a corporation of Illinois
Application April 13, 1951, Serial No. 220,248
3 Claims. (Cl. 274—10)

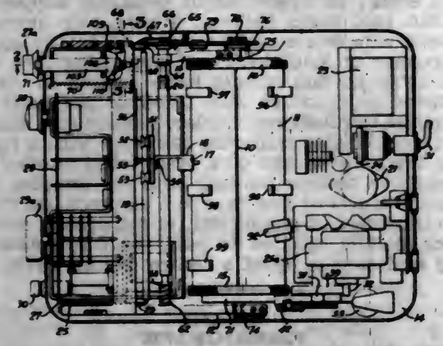
1. A record changer and tone arm swinging mechanism comprising a supporting base, a tone arm swingably mounted on the base, a tone arm actuating lever mounted on the base to effect horizontal and vertical swinging of the tone arm to set it at the beginning-of-play position on a record, a motor driven cam means journaled on

the base and having a cam groove formed therein providing opposed inner and outer walls, a cam track follower on the lever, a record support manually selective to support a stack of records of any one of three different diameters, means controlled by the record support for biasing the follower to traverse one or the other of the cam groove walls to cause the lever to set the tone



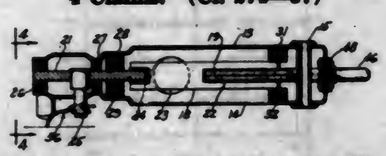
arm at the beginning-of-play position for either of two different diameter records, and other means controlled by the record support for neutralizing the operation of the follower biasing means and causing the lever to set the tone arm at the beginning-of-play position for a record whose diameter is intermediate that of the other two records.

2,652,259
TRACK SHIFTING AND ADJUSTING DEVICE FOR MAGNETIC SOUND RECORDERS AND REPRODUCERS
Ernst Keller, New York, N. Y., assignor to Machine Tool Works Oerlikon, Administration Company, Zurich, Oerlikon, Switzerland, a company of Switzerland
Application May 10, 1950, Serial No. 161,064
4 Claims. (Cl. 274—20)



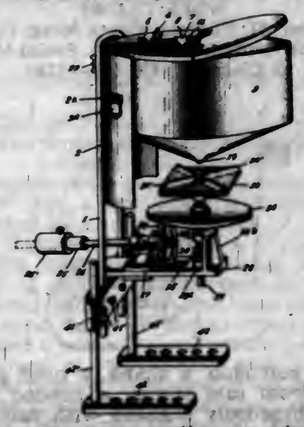
1. In a sound recording and reproducing machine, a sheet-carrying drum, a threaded spindle extending parallel to the axis of said drum, sound head means comprising a follower engaging the threads of said spindle and a recording head engaging a magnetic sheet wrapped around said drum and rotatable therewith to record and reproduce a sound track on said sheet, means connected with said drum and said spindle for rotating them, whereby said sound head means are moved along said spindle during the recording and reproducing, a spring engaging one end of said spindle and pressing it toward the other end thereof, a plate engaging said other end of the spindle, another plate firmly connected with the first-mentioned plate, means pivotally supporting said plates, a rod having an end engaging said other plate, and means shifting longitudinally the position of said rod, whereby the position of said spindle is varied in the direction of its axis and the position of said sound head means upon said sheet is adjusted.

2,652,260
IMPROVED PHONOGRAPH PICKUP APPARATUS
Benjamin B. Bauer, Oak Park, Ill., assignor to Shure Brothers, Incorporated, Chicago, Ill., a corporation of Illinois
Application August 30, 1947, Serial No. 771,433
4 Claims. (Cl. 274—37)



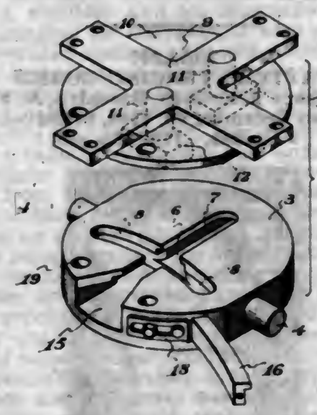
1. In a transducing device for use with a phonograph record, a transducing member, a driving member coupled to said transducing member, bearing means for mounting said driving member for angular oscillation about an axis generally parallel to the record surface in the normal operating position, an arm fixed to said driving member and extending from said driving member transversely with respect to said axis and toward said record surface, said arm having an opening extending transversely therethrough at a portion thereof remote from said driving member, a stylus insertable and removable in said opening, said stylus having portions extending beyond said arm on both sides thereof, and a clamping member mounted exteriorly on said remote portion of said arm and being movable axially of said arm into clamping engagement with said extending portions of said stylus to exert a clamping force thereagainst in a direction parallel to the axis of said arm.

2,652,261
MACHINE FOR PLANTING GRASS AND CLOVER SEED
James Lawrence Presler, Van Wert County, Ohio
Application April 20, 1948, Serial No. 22,127
5 Claims. (Cl. 275—8)



1. In a seeder for mounting on a tractor having a power take-off, a frame structure adapted for attachment to the tractor, a hopper on said frame structure having an outlet opening at its bottom, a vertical shaft, means carried by said frame for rotatably supporting said shaft in a position below the hopper, a distributor on and rotatable with the shaft, a friction disk secured to said shaft below the distributor, a horizontal shaft extending radially of and forwardly from the vertical shaft, means rotatably supporting said shafts from said frame structure, a friction wheel on the rear end of said horizontal shaft and engaging said disk, said wheel being adjustable radially of said disk, means for retaining said wheel in any position of adjustment radially of said disk and means for releasably connecting the forward end of the horizontal shaft to the power take-off of the tractor.

2,652,262
ANTIJACKKNIFE FIFTH WHEEL COUPLING
William G. Sherry, Tulsa, Okla.
Application October 19, 1950, Serial No. 190,932
2 Claims. (Cl. 280—33.05)



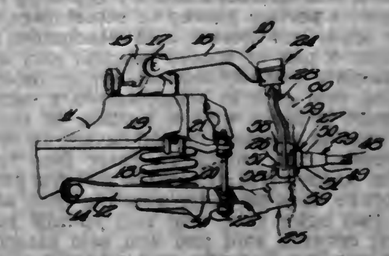
1. A tractor trailer fifth wheel, said fifth wheel comprising a lower member rockably mounted on the tractor, an upper member carried by the trailer and superimposed on the lower member, a T-shaped block guide slot in the upper side of the lower member, one arm of said guide slot being longitudinally disposed and the other arm of said guide slot being transversely disposed, downwardly extending members carried by the upper member on the longitudinal center thereof and extending into the transverse and longitudinal guide slots, a guide block rotatably mounted on the downward extending member extending into the longitudinal guide slot and a guide member rotatably mounted on the downwardly extending member extending into the transverse guide slot and transversely guided in said slot from side to side upon the rotation of the members in relation to each other, an inwardly extending passage in the rear side of the lower member and through which passage the guide members will pass and a transverse gate bar for the inner end of said inwardly extending passage and extending through a passage transversely and arcuately through the lower member and forming the rear wall of the transverse guide slot, said inwardly extending passage being in alinement with the longitudinally disposed arm of the T-shaped slot, said inwardly extending passage also being in communication with the transversely disposed arms of the T-shaped slot.

2,652,263
WHEEL TILTING MECHANISM FOR AUTOMOBILES
Richard O. Varnum, Fort Klamath, Oreg.
Application June 14, 1950, Serial No. 167,980
4 Claims. (Cl. 280—95)



1. The combination with an axle, independent wheel suspensions on said axle carrying steerable wheels and including upright members tiltable to tilt said wheels, control arms for said members, and steering mechanism for said wheels including a steering post operative in opposite directions, of means for tilting said upright members to tilt said wheels in the direction of steering including a slidable member mounted on and movable along said axle and connected to said control arms for operating the same to tilt said members, and direct operating linkage connections between said steering post and slidable member for moving said slidable member in opposite directions by operation of said steering post in opposite directions respectively.

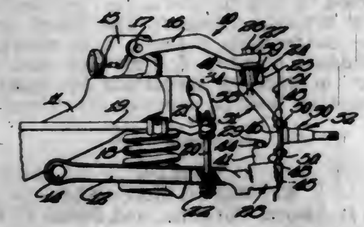
2,652,264
STEERING KNUCKLE
James H. Booth, Cerunna, and Elden C. Warner, Detroit, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application April 3, 1951, Serial No. 219,049
5 Claims. (Cl. 280—96.2)



1. In an independent steerable wheel suspension including pivotally mounted upper and lower control arms having ball joints attached at the outer ends thereof with studs rotatably and tiltably retained in the ball joints, a steering knuckle assembly for supporting a wheel and braking mechanism including a brake backing plate, said steering knuckle assembly comprising a spindle support bridge of inverted U-shape having a generally horizontal central portion provided with an integral cylindrical upper boss and two integral generally vertical legs provided with attachment sections at the free end portions thereof outwardly offset with respect to the central portion, each of said attachment sections including a plurality of integral bosses with bolt receiving apertures therethrough generally perpendicular

to the plane of the legs, a wheel support spindle structure including an attachment pad with an integral spindle shank extending perpendicularly from one face thereof and an integral lower boss formed on the other face, said pad having a plurality of bolt receiving apertures therethrough arranged in the same pattern as the bolt receiving apertures in said support bridge, and pin means in the bolt apertures of said bridge and said spindle structure for fixedly attaching the attachment sections against said pad other face, said upper and lower bosses having axially aligned tapered holes therethrough for fixedly receiving the studs of said ball joints to pivotally attach the steering knuckle assembly to said upper and lower control arms, the space between said legs providing a relatively large opening for ready access to the face of said brake backing plate opposing said support bridge.

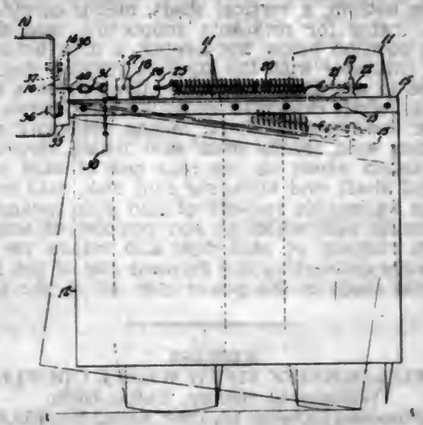
2,652,265
STEERING KNUCKLE
James H. Booth, Venice Township, Shiawassee County, and Albert W. Gair, Fraser, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application April 6, 1951, Serial No. 219,746
3 Claims. (Cl. 280—96.2)



1. A steering knuckle for supporting a wheel and braking mechanism including a brake backing plate, said steering knuckle comprising a spindle support portion having an attachment socket at the upper end thereof, said attachment socket including a pair of spaced integral ears and an intermediate semi-cylindrical cavity, means for securing said ears to complementary ears of a ball joint housing with a portion of said ball joint housing disposed in said cavity, an integral attachment pad having an outer face roughly parallel to the pivot axis of the steering knuckle, said brake backing plate abutting said attachment pad outer face, and said spindle support portion between said pad and said attachment socket slanting upwardly and inwardly at a substantial angle from the vertical to provide an access space between the spindle support portion and said brake backing plate.

2,652,266
VEHICLE MUD FLAP
Glenn C. Miller, Portland, Oreg.
Application June 24, 1950, Serial No. 170,143
13 Claims. (Cl. 280—154.5)

1. A vehicle mud flap and the like, comprising a supporting arm for the flap, a base end on said arm having a central opening, a link carried by said arm to extend through said opening, tensioning means for tensioning said link, a base member having a seat for said base end, connector means on said base member for said link, and a member on said arm operatively connected with said tensioning means to relieve the tension on



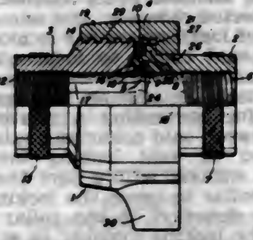
said link for removal of said link from said connector means.

2,652,267
PATTERN TRACING BOARD
Barbara T. Endlich, Brooklyn, N. Y.
Application December 21, 1948, Serial No. 66,449
3 Claims. (Cl. 282—28)



1. A pattern tracing device comprising a rigid flat member having an absorbent surface, a layer of marking material applied to said absorbent surface and dried in situ, and a sheet of thin foraminous material stretched over said marking layer and supported at its edges upon the flat member so that said foraminous sheet, inwardly of its edges, is wholly free from attachment to said flat member, said foraminous material providing means for spacing the fabric to be marked from the marking layer, yet allowing the fabric to be forced by physical contact to engage the marking layer through the interstices of the foraminous sheet, whereupon the marking material will be detached from the layer and transferred to the fabric by physical pressure, the marking layer consisting of a finely grained powdered substance mixed with from 3 to 5% of a water soluble binder in sufficient water to form a slurry, which, after application to and drying on the absorbent surface, will bond thereto and provide a loosely coherent layer which is stable against flaking or peeling under normal handling conditions of the device and which marking layer substance can be readily removed from the marked fabric by brushing after such marking has served its intended purpose.

2,652,268
MULTIPLE SEAT UNION
Joseph H. Goode, Houston, Tex.
Application February 28, 1949, Serial No. 78,838
2 Claims. (Cl. 285—123)



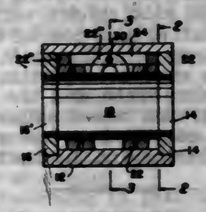
1. In a union, the combination of a hollow, tubular female member, a hollow tubular male member, and a connector, one of said members having an externally threaded section and the other of said members having a radially outwardly extending enlargement, said connector having a shoulder and an internally threaded section adapted for engagement with said externally threaded section and said shoulder being adapted to bear upon said enlargement whereby said connector may draw the inner ends of said members toward each other as said threaded sections are inter-engaged, said female member having a radially extending end surface with a substantially V-shaped annular groove therein spaced from the inner periphery thereof, said male member having a radially extending end face and an annular projection having a convex forward face to contact the opposite sides of said female member groove, the inner surface of said projection sloping inwardly from the inner edge of said groove and in the direction of said male member end face and then sloping outwardly to join said male member end face thereby forming a substantially V-shaped groove between said projection and said male member end face, and an annular, deformable sealing member positioned with one side face to engage said female member end face whereby, as said threaded sections are inter-engaged, the outer peripheral surface of said sealing member is deformed to tightly fit against the configuration of said inwardly and outwardly sloping surfaces of said projection while said one and said other side faces thereof are pressed tightly respectively against said female member and male member end faces.

2,652,269
MEANS FOR SECURING CONDUCTORS TO OUTLET BOXES
Samuel D. J. Dunlap, Detroit, Mich.
Application June 7, 1950, Serial No. 166,670
1 Claim. (Cl. 287—20)



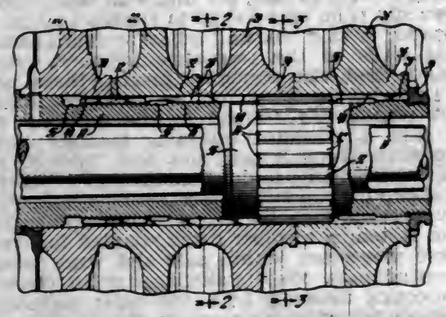
Means for clamping an electrical conduit to an outlet box having a conduit receiving aperture therein, comprising a pair of separable complementary plate members each having an intermediate conduit engaging portion terminating at one end in an outwardly extending flange arranged normally thereof for positioning adjacent the interior of the box wall adjacent said aperture, fulcrum means projecting inwardly from said flanges for engaging the interior of said box wall, an ear extending from one side of each of said intermediate portions and a wall extending from the opposite sides thereof, corresponding aligned edges of said ear and wall being spaced inwardly from said flange to engage against the exterior of said box wall adjacent said aperture, said walls of the respective members having tongue and slot engaging means, there being a threaded opening and an enlarged inclined slot respectively formed in the adjacent pair of ears, a threaded fastening member loosely projected through said slot and through said threaded opening to draw said members together to clamp the conduit therebetween with their fulcrum means engaging the inner box wall surface, said fastening member being adapted for transverse movement within said slot, and opposed longitudinally offset conduit gripping elements projecting inwardly from the inner surfaces of said conduit engaging portions, the opposed outer edges of said plate members being outturned to form a throated portion to facilitate the insertion of said conduit therebetween.

2,652,270
COUPLING
John A. Jones, Baltimore, Md.
Application November 18, 1949, Serial No. 128,212
2 Claims. (Cl. 287—53)



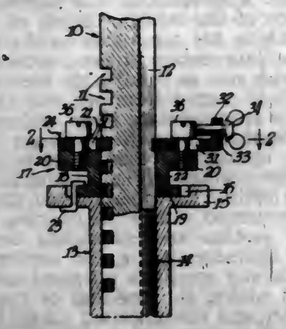
1. A device of the character described for engaging the cylindrical outer surface of a shaft, comprising, a continuous housing having an intermediate body section and two end sections, said housing having a continuous opening extending through the intermediate body section and the two end sections, the openings in the end sections of the housing being of cylindrical form and along the same axis as the opening in the intermediate section, the end section openings being of such size as to slidably receive a cylindrical shaft of a predetermined size, the opening through the intermediate body section being of a larger diameter than the openings in the end sections, a cylindrical elastic sleeve having its normal inner diameter of substantially the same size as the cylindrical openings in the end sections and mounted within the opening of the intermediate section and extending between the inner wall surfaces of the end sections, and in line with the end openings, a helical spring member located within the opening of the intermediate section and circumposed about the sleeve, having its normal inner diameter of substantially the same size as the normal outer diameter of the sleeve, means supported upon the housing for moving at least one end of the helical spring member around the outer surface of the sleeve relative to the remainder of the said member, whereby, the diameter of the helical spring member is reduced pressing the elastic sleeve in holding engagement with the shaft.

2,652,271
TURBINE WHEEL MOUNTING
Arthur W. Gaubatz, Indianapolis, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 5, 1950, Serial No. 136,971
7 Claims. (Cl. 287—52.05)



1. In an elastic fluid turbine or compressor, a rotor wheel mounting construction comprising a shaft having a series of axially splined segments, each of which splined segments is separated axially from adjacent splined segments by unsplined segments of the shaft, the diameters of the unsplined segments being substantially equal and being less than the diametric distance between the lands of the shaft splines but slightly greater than the diametric distance between shaft splineways; and, mounted on the shaft, a plurality of turbine wheels having central openings with internal axial splines, each wheel being seated on the shaft so as to overlap both a splined and unsplined segment of the shaft, the flanks of the shaft splines engaging a portion of the flanks of the wheel spline teeth and the lands of another portion of the wheel spline teeth being seated upon an unsplined surface of the turbine shaft to center the wheel on the shaft.

2,652,272
SEAT POST CONSTRUCTION FOR CHAIRS
Glenn D. Wood, Elkhart, Ind., assignor to Posture Research Institute, Inc., Elkhart, Ind., a corporation of Indiana
Application January 8, 1952, Serial No. 265,429
7 Claims. (Cl. 287—53)



1. A seat post construction for chairs embodying therein a seat post supporting member having a vertical bearing opening therein, a seat post engaged in said opening for a turning as well as a longitudinal adjustable movement, a collar surrounding a part of said post and having a rotative thrust bearing engagement upon a part of said supporting member, coacting means on said member and collar respectively for holding the same against longitudinal separation, said post having a plurality of longitudinally spaced recesses in one side thereof, a locking member having a limited sliding guided movement on said collar transversely of the axis of the post and through which said post extends, a part of said locking member being adapted to be engaged in a selected recess in said one side of the post when said locking member is moved in one direction on said collar to lock said member and said collar to the post, coacting means on said locking member and on the opposite side of the post for preventing a relative turning movement between said collar and said post, and means carried by said locking member and adapted to be engaged with a part fixed with respect to the collar to move the locking member in the proper direction on the collar to engage said part of the locking member in said selected recess in the post.

2,652,273
LINE SPLICER
Harold D. Davis, Montebello, Calif.
Application November 15, 1951, Serial No. 256,435
1 Claim. (Cl. 287—113)



In a line splice, a unitary structure comprising a pair of laterally spaced elongated hollow frustoconical socket portions having bores therein, a tubular portion connecting the inner parts of said socket portions, said tubular portion extending diagonally between said socket members, and having slots in respective alignment with each of said bores, whereby the ends of a line to be spliced will pass thru the respective bores and slots and by bending will be positively locked.

2,652,274
ROD JOINT OR COUPLING
Robert W. Weeks, West Chester, Pa., assignor to Wind Turbine Company, a corporation of Pennsylvania
Application October 12, 1949, Serial No. 120,925
4 Claims. (Cl. 287—119)



1. A rod joint comprising one rod having notches formed therein on opposite sides thereof adjacent one end thereof, a second rod, two clamping plates each having a V-notch in one face thereof, said plates being attached to said second rod with said V-notches forming a recess for said first rod, and two clamping screws each having a flat face formed in the shank portion thereof and an enlarged shoulder on the opposite side of said flat face from the threaded end portion, each clamping screw being freely rotatably disposed through a hole in one clamping plate and having threaded engagement with the opposite clamping plate so that said first rod may be inserted in said recess and pass between said screws when said flat faces are facing each other, and said screws being arranged so that said notches will be engaged by said shank portions and said clamping plates will be forced together by said shoulders when said clamping screws are rotated.

2,652,275
CLOSURE FASTENER
George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application January 31, 1949, Serial No. 73,780
1 Claim. (Cl. 292—17)



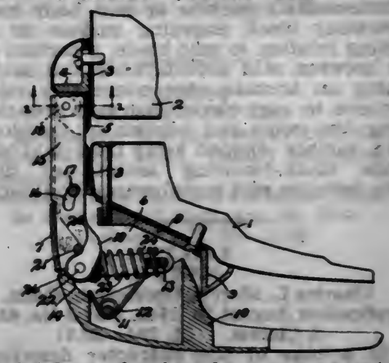
An assembly comprising a spring catch and a part having an opening in which said spring catch is attached by application entirely from the forward side of said part in position for engaging a cooperating stud, said opening being formed by a pair of intersecting slots comprising a longer slot crossed by a shorter slot and providing marginal projections which define abutments adjacent said opening at the rearward side of said part, and said spring catch comprising a piece of sheet metal bent to form a bowed body providing a pair of spaced body portions applied through said longer slot from the forward side of said part to project from the rearward side of said part in compressed relation in said opening, stud engaging means carried by said body portions comprising spring elements having free ends extending toward the bight of said bowed body, shoulders on said body portions engaging said abutments adjacent said opening at the rearward side of said part, neck portions adjoining said body portions received in the ends of said shorter slot, and base portions extending from said neck portions engaging the forward side of said part in cooperation with said shoulders on the body portions, said shoulders on the body portions comprising diverging cam surfaces adapted to seat on parts of different thicknesses and to compensate for manufacturing variations and irregularities in the thickness of a part adjacent the opening therein.

2,652,276
HOOK LOCK
William A. Cole, Detroit, Mich.
Application August 10, 1951, Serial No. 241,211
1 Claim. (Cl. 292—103)



A lock for a hook and screw eye having a shank and an eye portion in which the hook is engageable, comprising a flat base located in a plane perpendicular to the longitudinal center line of the screw eye and having a center opening receiving said shank for rotation of the base thereupon, said base being spaced longitudinally of the screw eye from said eye portion; an abutment rigid with said base and spaced from the axis of rotation thereof, said abutment extending from the base in laterally spaced, parallel relation to said eye portion and being swingable on said axis through an arcuate path about the eye portion, between positions in one of which it extends across the path through which the hook is swingable when being withdrawn from the screw eye and is operative to restrain the hook against disengagement from said screw eye, and in the other of which it is disposed clear of said path and is inoperative to prevent said disengagement, the base and abutment being integrally joined at right angles to one another to form a lock member of L-shaped formation the upstanding leg of which is defined by said abutment and lies in a plane parallel to the plane in which the eye portion lies, said planes of the eye portion and abutment being so spaced as to engage the hook substantially against movement therebetween when the abutment is in the first-named position thereof, the eye portion of the screw eye being substantially greater in diameter than the diameter of the center opening of the base; a washer circumposed about the shank of the screw eye between the base and eye portion and so proportioned as to thickness as to be engageable frictionally by said eye portion bearing downwardly thereagainst; and a second washer underlying the base so as to be interposed between said base and a surface to which the shank is secured.

2,652,277
LATCH MECHANISM
Lloyd L. Anderson, Grand Rapids, Mich., assignor to Jervis Corporation, Grandville, Mich., a corporation of Michigan
Application November 15, 1948, Serial No. 60,144
5 Claims. (Cl. 292—332)



1. A latch mechanism for arrangement on a hinged cabinet door adjacent the free edge thereof, said mechanism including an elongated latch bolt extending substantially parallel to the direction of movement of said door edge and having an inner end and an outer end, said inner end being engageable with a keeper, said latch bolt being mounted on said door for limited sliding movement and for limited pivotal movement between a keeper engaging position and a cocked position, said pivotal movement being about a pin intermediate its ends, compression spring means pivotally secured to said outer end and urging said outer end away from the hinged edge of said

door whereby said inner end of said latch bolt is urged in the opposite direction toward keeper engaging position, operating means for moving said outer end of said latch bolt toward said hinged edge against the action of said spring means to disengage the inner end of said latch bolt from said keeper, a roller mounted on said latch bolt outwardly of the pivotal axis thereof, and wedge means secured to said door, said roller being arranged to bear against the outer surface of said wedge means thereby to urge said latch bolt outwardly with respect to said door when said latch bolt is substantially in said keeper engaging position.

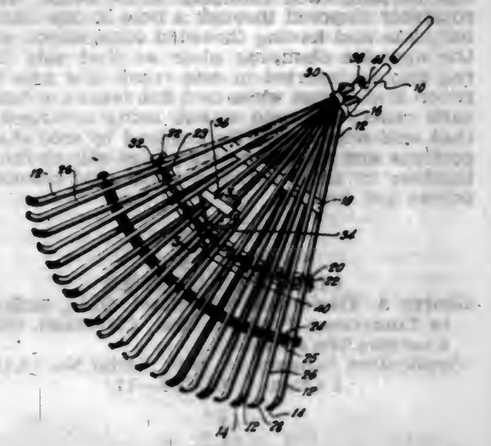
2,652,278
BUILDING BLOCK LIFT
David A. Allen, Mount Vernon, Ohio
Application September 22, 1948, Serial No. 50,462
1 Claim. (Cl. 294—15)



A building block lifting tool formed integrally from one piece of material and comprising an elongated body tapering from one end thereof to the other, the smaller end portion of said body being formed with transverse finger-receiving grooves and constituting a handle, an arcuate block-engaging blade extending in a substantially perpendicular direction from the larger end portion of said body, said blade having a block-engaging inner surface extending transversely of said body which is formed with a central longitudinal rib and with longitudinal concavities at the sides of said rib, and a coacting block-engaging protuberance extending from an intermediate portion of said body having a cooperating block engaging surface in spaced opposing relation to said blade, a portion of said body between said protuberance and said blade forming an arcuate edge connecting said protuberance to said blade, and said protuberance having the outer end portion of its block engaging surface stepped away from said blade to provide block-receiving sockets of different widths between said protuberance and said blade.

2,652,279
RAKE
Charles L. Morris, Greenwich, Conn.
Application August 20, 1948, Serial No. 45,273
3 Claims. (Cl. 294—50.9)

1. In a rake of the character described, an elongated handle, a pair of separate raking heads, each of said heads comprising a plurality of tines secured together at one end and diverging outwardly in fan-like configuration and a spacing member spaced from said end and holding the tines in spaced relationship, the outer ends of the tines being curved downwardly, means rigidly and permanently securing one of said heads to one end of the handle and quick release means removably securing the second head to the handle and the first head with the tines of one head lying in the spaces between the tines of the other to form a continuous series of raking teeth, the second head being quickly removable and reversible relative to the first mentioned head to cooperate with the first mentioned head for use as tongs in picking up an



accumulated mass of leaves and other debris the tines of the two heads curving inwardly toward one another during such use as tongs.

2,652,280
GRAPPLE
Roy O. Billings, Milwaukee, Wis.
Application April 11, 1949, Serial No. 86,689
7 Claims. (Cl. 294—88)

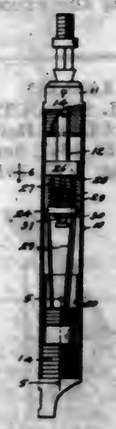


1. In a grapple: a supporting frame; at least three arcuate tines pivotally connected to and positioned radially around the lower end of said frame for vertical swinging movement; and a separate hydraulic ram for each of said tines, each ram having a casing and piston rod connecting a tine to the frame; a source of fluid pressure; a manifold having a chamber communicating with said source; and conduits providing continuous fluid communication between the interiors of all of said ram casings and said manifold chamber.

2,652,281
SELF-RELEASING FISHING ROD TOOL
Theodore M. Hunt and Trey Lee Nichols, Tulsa, Okla.; said Hunt assignor to said Nichols
Application October 2, 1950, Serial No. 187,982
1 Claim. (Cl. 294—102)

A drill rod fishing tool comprising a tubular casing, a tapered jaw contracting member carried by the lower end of said casing, a plug in the upper end of said casing having a central bore, a plurality of tapered drill rod clamping jaws in

said casing, spring means constantly urging said jaws downwardly to clamping position, a shaft having a reduced portion slidable through said bore, a collar fixed to said shaft below said plug, frangible means carried by said plug and extending transversely through said shaft normally holding said collar against the lower end of said plug, a ring above said jaws, resilient bars fixed between said ring and said jaws biasing said jaws to released position, a sleeve having a limited slidable connection to said shaft above said re-



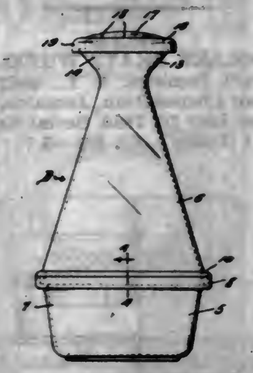
duced portion, inwardly biased resilient clamping fingers having outwardly turned lugs engaging under said ring carried by said sleeve, downward movement of said shaft on breaking of said frangible means juxtaposing said clamping fingers to said reduced portion of said shaft to release the engagement of said lugs from said ring to release said ring for downward movement relative to said shaft, whereby said jaws drop downwardly and said contracting member effects clamping of said jaws on said rod.

2,652,282
IRRIGATION APPARATUS
Elwood H. Willetts, Douglaston, N. Y.
Application October 21, 1949, Serial No. 122,641
6 Claims. (Cl. 299—47)



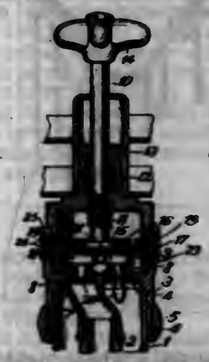
1. Irrigation apparatus comprising a plurality of pipe sections, hydraulic joint members having contractable sleeves fitted over the ends of the pipe sections and having releasable clamping means for contracting the sleeves and thereby securing them to the pipe sections, one of said joint members having a truncated, conical portion of greater diameter than the pipe section and having a shut-off valve located therein, means for releasably connecting adjacent joint members together so as to permit limited pivoting of the pipe sections relative to each other and wheeled carriages pivotally connected to certain of the joint members and being free from any rigid connection with the joint members to which they are pivoted for supporting the apparatus so that it may be steerably towed in either direction from place to place while assembled.

2,652,283
WATER-HOLDING AND DISPENSING RECEPTACLE
Nathan W. Roop, Columbus, Ohio, assignor to Columbus Plastic Products, Inc., Columbus, Ohio, a corporation of Ohio
Application May 15, 1951, Serial No. 226,457
3 Claims. (Cl. 299—103)



1. A hand-wielded receptacle for sprinkling liquids, comprising a hollow body composed of united bottom and top sections, said bottom section possessing a bowl-like configuration formed at its top with a flange having an annular groove formed therein, said top section being generally of conical configuration and open at both ends thereof, a flange formed on the lower end of said top section and arranged in seating engagement with the flange of said bottom section, an annular rib depending integrally from the flange of said top section and into the groove of said bottom section, said rib being permanently adhesively secured to the walls of said bottom section defining said groove, said top section terminating at the top thereof in a neck of restricted diameter, an outwardly-flaring filling extension integrally formed with said top section above said neck, and a perforate resiliently flexible cap section detachably united with the filling extension of said top section.

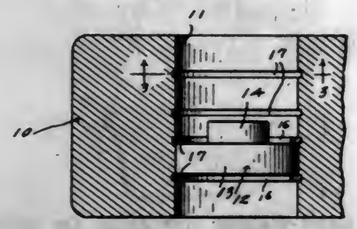
2,652,284
WASH FOUNTAIN
Joseph Rothmayr, Zurich, Switzerland, assignor to Interpatents-Trust, Vaduz, Principality of Liechtenstein
Application May 18, 1950, Serial No. 162,651
In Switzerland February 22, 1950
5 Claims. (Cl. 299—140)



1. A wash fountain comprising a distributing chamber, an inlet to said chamber, a plurality

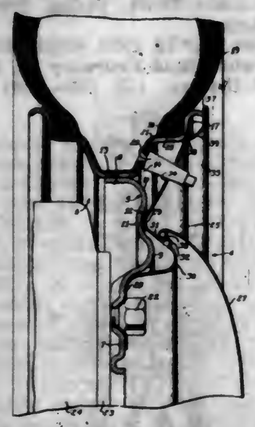
of circumferentially arranged outlets from said chamber, regulating means for uncovering said outlets in said chamber in succession, operating means for moving said regulating means axially in said chamber over said outlets, means for preventing rotatable movement of said regulating means, and a second regulating means for controlling the size of said outlets.

2,652,285
ROLLER SKATE WHEEL
Frank G. Negri, Jamaica, N. Y., assignor to Noel Precision Corporation, Jamaica, N. Y.
Application July 10, 1950, Serial No. 172,991
1 Claim. (Cl. 301—5.7)



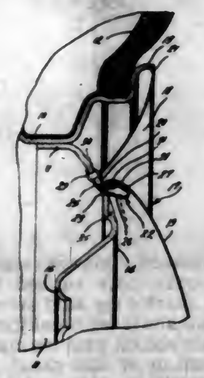
A roller skate wheel comprising a reversible wheel body having inner and outer axial portions and a central bore provided with pairs of spaced annular internal grooves, one pair being in each axial portion, an anti-friction bearing of a diameter to fit tightly within said bore and of a thickness equal to the distance between said grooves of each pair, and a pair of resilient split locking rings, each adapted for engagement in a groove on opposite sides of said bearing, each ring being provided with tool engaging apertures at the ends thereof whereby the rings may be contracted to insert or remove the same, whereby the wheel body may be reversed on the anti-friction bearing.

2,652,286
WHEEL STRUCTURE
George Albert Lyon, Detroit, Mich.
Original application November 24, 1944, Serial No. 564,971, now Patent No. 2,541,079, dated February 13, 1951. Divided and this application March 14, 1950, Serial No. 149,632
6 Claims. (Cl. 301—37)



1. In combination, a wheel including a multi-flanged rim part, a body part having a radially outwardly stepped center portion, a disc-like ornamental wheel cover disposed over said body part and over a portion of said rim part and having a correspondingly stepped center portion clamped in nested relationship with said body part center portion and including an axially and outwardly extending curved portion spaced from said body part and disposed circularly about the axis of said cover, and a plurality of protuberances struck out radially outwardly of said curved portion for detachably supporting a hub cap, said cover including a separate ring secured to the outer peripheral edge of said wheel cover and adapted to overhang the exposed outer edge of said rim part.

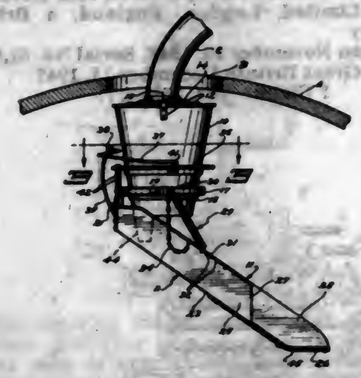
2,652,287
WHEEL STRUCTURE
George Albert Lyon, Detroit, Mich.
Application May 26, 1947, Serial No. 750,490
11 Claims. (Cl. 301—37)



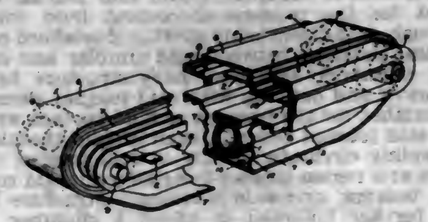
1. In a wheel structure including a tire rim and a load sustaining body part, the body part being formed from stamped sheet metal and having an annular series of apertures therethrough near but spaced from the juncture with the tire rim, cover retaining spring clips each of which has a pair of adjacent leg portions secured to the wheel body by rivet means adjacent to the respective apertures with at least a portion of each of the clips extending through the associated aperture and a retaining loop portion extending generally axially outwardly from the wheel body and formed with a generally radially outwardly and axially inwardly facing cover retaining shoulder toward which each of the clips is strongly resiliently biased, and a cover member having a marginal formation retainingly engaging said retaining shoulder on the clips.

2,652,288
ENSILAGE DISTRIBUTOR
Charles Sands, Kenyon, Minn.
Application March 9, 1949, Serial No. 80,420
6 Claims. (Cl. 302—60)

1. For an ensilage distributor having a hopper, a distributor spout beneath the hopper, a swivel ring rotatably mounting the spout on the hopper, hinge means connecting the spout to the swivel ring whereby said spout will be successively depressed by material flowing intermittently from the hopper, a ratchet ring on the hopper, the improvement which comprises an arm extending upwardly from the spout, a pawl carried by the arm and cooperating with the ratchet ring to ratchet the spout about in a circular path responsive to said successive depressions in the spout, and a pair of detent springs carried by the swivel ring and engaging the ratchet ring to hold the spout against retrogressive movements.



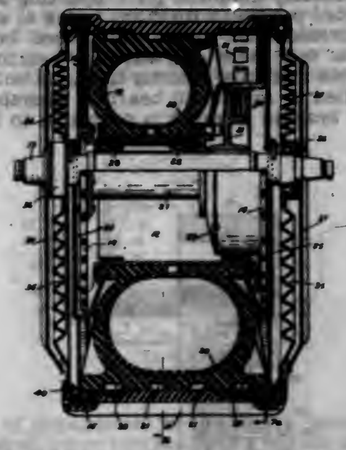
2,652,289
TRACKED GEAR WITH CUSHIONED LUBRICATED LEAKPROOF SKID SUSPENSION
Mieczyslaw Gregory Bekker, Hudson County, N. J.
Application April 14, 1950, Serial No. 155,873
14 Claims. (Cl. 305—2)



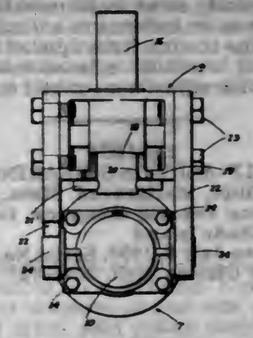
3. A tracked gear comprising an elongated elastic support means, curved guide means supported by and adjacent each end of said support means, an endless track slidably trained around said guide means and under said support means to carry said support means, flexible diaphragms on the sides of said track to retain lubricant within said track, said track having channels along each side thereof with the edges of said diaphragms fitted in said channels, and fluid expansible means in said channels and clamping said diaphragm edges when expanded.

2,652,290
MOBILE SUPPORT
Mieczyslaw Gregory Bekker, Washington, D. C.
Application April 21, 1952, Serial No. 283,490
15 Claims. (Cl. 305—2)

1. A tracked gear, comprising support means for supporting a load, an elastic member of endless angular configuration stationarily surrounding and supporting said support means, a track movably trained around said elastic member for ground contact, and flexible sides sealed to each side of said track and movably surrounding and sealed with said support means on opposite sides of said member to retain lubricant within said track for lubricating the relatively movable surfaces of said track and said elastic member.



2,652,291
BEARING MOUNT FOR DISK PLOWS
Manick C. Magarian, Fresno, Calif.
Application October 2, 1950, Serial No. 187,971
2 Claims. (Cl. 308—29)

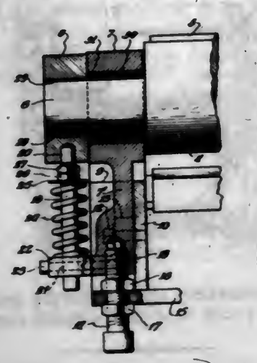


1. In a shaft bearing unit which includes an annular bearing about the shaft and a cap about the bearing; trunnions rigid with and projecting ing axial alinement from opposite sides of the cap, parallel arms between which the cap is disposed and in which the trunnions are turnably supported, a member disposed between the arms above the cap, an attachment spindle turnably supported in the member in a plane centrally between the arms, and removable bolts rigidly connecting the arms and member as a unit and arranged to allow movement of the member, when one arm is removed upon removal of the bolts thereof, in a direction axially of the trunnion of the other arm and laterally away from said trunnion and the cap.

2,652,292
JOURNAL BEARING
Reinhardt N. Sabee, Appleton, Wis., assignor to Paper Patents Company, Neenah, Wis., a corporation of Wisconsin
Application June 6, 1950, Serial No. 166,449
2 Claims. (Cl. 308—58)

1. A journal bearing comprising a main bearing, an auxiliary bearing, said main and auxiliary

bearings being arranged side by side to rotatably receive a shaft, said main bearing being adapted to be adjustably mounted for supporting a shaft in a selected position within the range of adjustment provided, and means interposed between portions of said main and auxiliary bearings for biasing said auxiliary bearing in the direction of load applied to said main bearing, whereby said auxiliary bearing member is operative to hold a



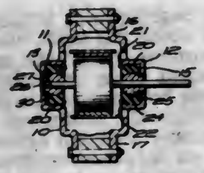
shaft journalled in said bearings steadily against a predetermined portion of said main bearing, thereby to hold such shaft against lateral movement, said auxiliary bearing being supported from said main bearing so as to be movable with said main bearing as an incident to adjustment thereof, whereby the biasing force applied to said auxiliary bearing remains substantially constant notwithstanding adjustment of said main bearing.

2,652,293

SELF-ALIGNING BEARING

Lewis H. Phillips, Marblehead, Mass., assignor to Self-Aligning Bearing Company, Inc., a corporation of Rhode Island

Application July 8, 1950, Serial No. 172,699
5 Claims. (Cl. 308—72)



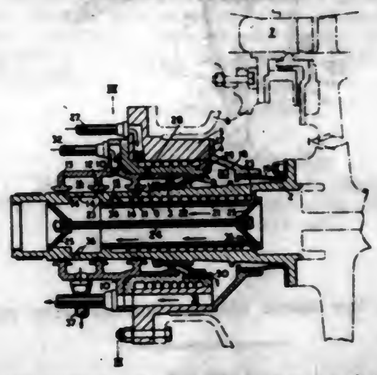
1. In a bearing mounting, a bracket having two ends for securing to a motor frame and a center portion, said center portion having a well with a central opening, a disk of flexible material having a spherical seat, one end of said disk having a crown with a central opening, said crown extending over the rear portion of the spherical seat, the other end of the disk having a cylindrical recess on its inner surface extending over the front portion of the spherical seat, means securing said disk in said well with its central opening in axial alignment with the well central opening, a felt washer seated in said cylindrical recess, and a spherical bearing movably mounted in said seat between the felt washer and the disk crown.

2,652,294

TURBINE BEARING COOLING MEANS

Leonard Islip, Kincote, near Rugby, and Sydney William Henry Perry, Knighton, England, assignors to Power Jets (Research and Development) Limited, London, England, a British company

Application November 26, 1948, Serial No. 61,993
In Great Britain December 13, 1947
1 Claim. (Cl. 308—77)



A gas turbine or like fluid flow machine comprising a rotor and stationary structure which are subjected in operation to high temperatures, a hollow journal element integral with said rotor, a bearing embracing said journal element externally and itself embraced by said stationary structure, a sleeve positioned within said journal element which defines an annular chamber and a central chamber within said journal element for the passage of coolant fluid therethrough, said sleeve being apertured to afford connecting passages between said annular and central chambers, said stationary structure being hollowed and defining with said journal element a chamber for the passage of fluid coolant without said journal element, each of said chambers extending circumferentially of said journal element at a region thereof lying between said rotor and bearing, and said stationary structure being further hollowed to afford a chamber for the passage of coolant fluid extending circumferentially about and axially at least as far as the axial extent of said bearing and two additional chambers extending circumferentially around said journal element on the side of said bearing remote from said rotor, said journal element being apertured to afford connecting inlet passages between one of said additional chambers and one of said chambers within said journal element and to afford connecting outlet passages between the other of said additional chambers and the other of said chambers within said journal element.

2,652,295

ROTARY BEARING CONSTRUCTION

Morey E. Wellin, Harrisburg, Pa.

Application May 5, 1949, Serial No. 91,550
5 Claims. (Cl. 308—174)

1. In combination with a rotatable shaft, a bearing comprising a ring member rigidly mounted on said shaft having a section through the axis of rotation of the ring formed with parallel side walls extending perpendicular to the shaft and capped by a contour in the general form of a V, a supporting bearing for housing said ring having one section with an annular recess therein, anti-friction rolling bearing means mounted in said recess providing a contacting surface on one side of the V, a second section of said supporting bearing with an annular recess positioned therein similar to said first recess having anti-friction



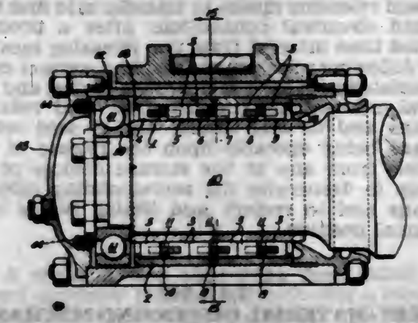
rolling bearing means mounted in said second section providing a contacting surface on the other side of the V, and means holding said sections together.

2,652,296

MULTIROW CYLINDRICAL ROLLER BEARING

Per Gunnar Palmgren, Philadelphia, and Alfred Stewart Murray, Norristown, Pa., assignors to SKF Industries, Inc., Philadelphia, Pa., a corporation of Delaware

Application September 3, 1948, Serial No. 47,684
19 Claims. (Cl. 308—189)



15. A journal box or like bearing having a roller section for radial load, said roller comprising inner and outer race members and a plurality of rows of rollers between said races, a deep groove ball section also comprising inner and outer races and arranged to assume thrust load, a journal casing embracing said bearing sections and comprising an end cover member adjoining the said ball section, means for locking the inner race of the ball section against the inner race of the roller section, the outer race of the ball section having clearance both with the outer race of the roller section and said cover member and also radially with the said casing, and means for retaining the outer race of the ball section against rotation while leaving said race free for movements both axially and radially.

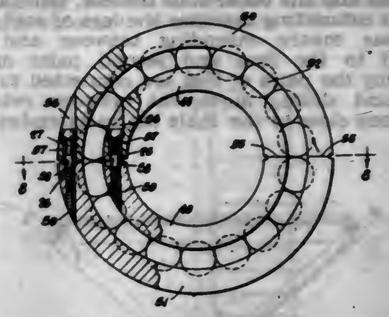
2,652,297

FASTENING DEVICE

Frank H. Stearns, Meriden, and Arthur J. Thibault, Enfield, N. H.; said Stearns assignor to said Thibault

Application August 19, 1949, Serial No. 111,262
6 Claims. (Cl. 308—189)

6. A ballbearing race made from a cylindrical piece of metal fractured longitudinally, with lugs projecting from the side of the cylindrical piece having fractured surfaces in mating relation, each lug having an opening extending therethrough which provides a tapered seat, with said seats being coaxial and extending oppositely with respect to the fractured surfaces so that each seat is of appreciable length with respect to the



plane of engagement of the lugs, a sleeve having a tapered outer surface fitting within said seats so as to maintain the lugs in alignment with their fractured surfaces accurately mated and a member extending freely through said sleeve having a head engaging one lug and having an end portion threaded into the other lug.

2,652,298

PISTON SEALING RING

Melvin E. Estey, Hagerstown, Ind., assignor to Perfect Circle Corporation, Hagerstown, Ind., a corporation of Indiana

Application June 4, 1951, Serial No. 229,791
2 Claims. (Cl. 309—44)



1. The combination of a piston member adapted for operation in a cylinder containing fluid under higher pressure at one side of the piston than at the other, said piston member having a peripheral groove therein, and a self-expansible ring member mounted in said groove and having an outer face tapered in a direction away from the high pressure side of the ring member so that the latter contacts the cylinder solely along the edge formed by its outer face and its high pressure side, one of said members having passages extending from the high pressure side to the inner portion of the groove to conduct high pressure fluid to the inside of the ring member to force it outwardly into tight contact with the cylinder, the ring member being dished toward the low pressure side at its inner periphery by the expanding force because of the contact with the cylinder along said edge, the angle of taper of the outer face of the ring member being greater than the angle of dishing whereby the contact with the cylinder remains along said edge.

2,652,299

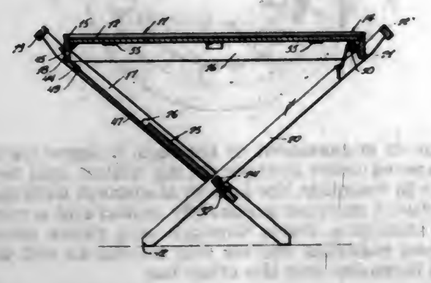
CROSSED LEG FOLDING TABLE OR TRAY

John W. Bryan, Traphill, N. C.

Application September 9, 1949, Serial No. 114,817
2 Claims. (Cl. 311—83)

1. In a table tray, a table top, a first pair of inner and outer legs, a second pair of inner and

outer legs, said first and second pairs of legs being laterally spaced from each other and positioned along opposite sides of said table top, means pivoting the legs of said pairs to spaced points of said table top at points spaced near one end of the legs, the legs of each pair being crossed at points intermediate said one end of the legs and the other ends thereof, pin-and-slot means connecting together the legs of said pairs, crossbar means extending between and connected to the first and second pairs of legs whereby the pairs of legs are connected for pivotal and sliding movement between retracted positions close to the table top to extended positions remote from the table top, said pin-and-slot means comprising a pin fixed on the inner leg of a pair of inner and outer legs and a longitudinal slot formed in the other leg in which the pin is slidably confined, latch means comprising a releasable L-shaped hook rockably mounted on said other leg and retainably engageable with the pin only in the extended positions of the legs, spring means acting between the table top and the said one end of the legs of one of the pairs and biasing the pairs of legs toward retracted position, and trigger means mounted on the table top and operatively connected to said latch means for releasing the latch means.



2,652,300
FOLDING END EXTENSIBLE TABLE WITH ELEVATING STRUCTURE
Dorothy Graber and Herman Graber, Bronx, N. Y.
Application February 3, 1950, Serial No. 142,182
1 Claim. (Cl. 311—90)



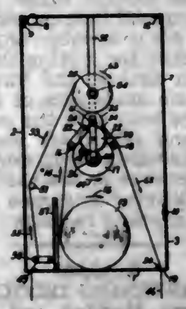
An extensible table comprising a pair of hingedly connected table leaves to be opened to be coplanar, a pair of box members each including a front, side, and top panel and each receiving slidably therein adjacent said top panel one of said table leaves, spring housings mounted on each side of said table leaves, strap springs housed in said compartments, said housings being longer than said leaves and having spring members therein, said box members sliding along said leaves to an extended position, said housings forming supports for said box members in extended position and the top panels of said box members are coplanar with said leaves.

2,652,301
ARTICLE DISPENSING SYSTEM
Thomas Samuel Skillman, Mosman, near Sydney, New South Wales, and Peter Lincoln Law, Roseville, near Sydney, New South Wales, Australia, assignors to Communication Engineering Pty. Limited, Cammeray, near Sydney, New South Wales, Australia, a company of Australia
Application April 27, 1949, Serial No. 89,896
In Australia May 12, 1948
9 Claims. (Cl. 312—35)



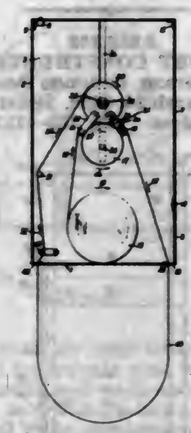
6. In an article-dispensing system of the character described: a group of storage devices for storing articles of a given character, each device including an electrically actuated releasing means for discharging said articles therefrom; switch-actuated selecting means and electrical connections therefrom selectively connectable with said releasing means to energize the releasing means of one said device; switching means common to said group of storage devices and including a timing device and electrical connections therefrom to said switch-actuated selecting means and each of said releasing means to transfer said first mentioned electrical connections after a predetermined time interval from one releasing means to the following releasing means; and contact means associated with each said storage device, and electrical connections therefrom to said releasing means and to said timing device, said contact means being operable upon the release of each article from any of the storage devices of said group to deenergize the corresponding releasing means and to restore said timing device to its original position.

2,652,302
SHEET-MATERIAL DISPENSING MECHANISM
Erwin J. Friday, South Glens Falls, N. Y., assignor to Fricar Mfg. Co., Inc., Schenectady, N. Y., a corporation of New York
Application June 2, 1948, Serial No. 30,710
11 Claims. (Cl. 312—38)



1. A friction-roll assembly for a sheet-material dispensing mechanism having a pair of mounting guide-shoe members, a pair of spaced rods mounted on and extending between said mounting members so as to secure together said mounting members, a sheet-material rewind friction roll mounted on one of said rods, a cylindrical sheet-material supply friction-roll formed with substantially closed ends and mounted on the other of said rods, a driving connection means connecting said rewind and said supply friction-rolls, and regulating means arranged within and enclosed by said supply friction-roll and interposed between and connected to said supply friction-roll and said other of said rods including a metering mechanism for limiting rotation of said supply friction-roll to a predetermined amount at any one time and a time-delay device connected to said metering mechanism for providing a desired time delay between successive rotations of said supply friction-roll.

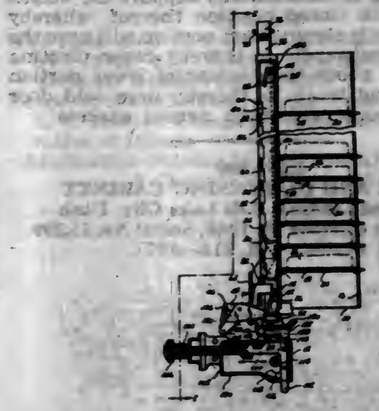
2,652,303
SHEET-MATERIAL DISPENSING MECHANISM
Erwin J. Friday, South Glens Falls, N. Y., assignor to Fricar Mfg. Co., Inc., Schenectady, N. Y., a corporation of New York
Application February 17, 1950, Serial No. 144,645
18 Claims. (Cl. 312—38)



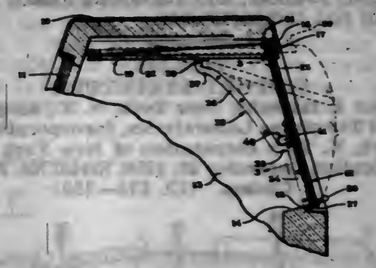
1. A metering and time-delay mechanism for a towel dispenser friction roll including a mounting rod for supporting the friction roll, a cam rigidly mounted on said mounting rod and having a spiral portion with a longitudinally extending portion connecting together the ends of said spiral portion, a cam follower nonrotatably and longitudinally movably mounted relative to and within the friction roll extending into engagement with said cam, means for providing a desired time delay for return movement of said follower along said cam longitudinal portion, and means for resiliently biasing said cam follower toward said time-delay means during return movement of said cam follower.

2,652,304
CANDY MERCHANDISING MACHINE
Christian Gabrielsen, Whippany, N. J., assignor to Rowe Manufacturing Co., Inc., Whippany, N. J., a corporation of New York
Application October 27, 1950, Serial No. 192,485
9 Claims. (Cl. 312—94)

1. A merchandising machine including in combination a frame, a plurality of shelf-supporting means pivotally carried by the frame vertically positioned one above the other, each of said shelf-supporting means being formed with a crank adapted to rest upon the frame to erect the shelf-supporting means and mounted for movement longitudinally of the axis of rotation of the supporting means, shelves carried by said shelf-supporting means adapted to support merchandise to be vended, means for restricting movement of the shelves longitudinally of the axis of the shelf-supporting means, a cam, means for mounting said cam for vertical movement along the frame and into successive engagement with the cranks of the shelf-supporting means, means for biasing said cam to move upwardly, stop means carried by said cam, a plurality of coacting stop means carried by said frame adapted to stop the cam below each shelf-supporting crank, and coin controlled means for successively releasing said stop means to permit said biasing means to move the cam upwardly in an intermittent stepwise manner.



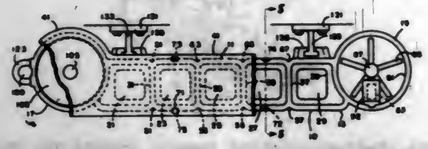
2,652,305
SERVICE DOOR FOR REFRIGERATOR DISPLAY CASES
Enoch Swedman and Herman J. Strobush, St. Paul, Minn., assignors to Seeger Refrigerator Company, St. Paul, Minn.
Application May 17, 1948, Serial No. 27,516
2 Claims. (Cl. 312—138)



1. A refrigerator display case door mounting for a refrigerator cabinet having an elongated door opening, a gasket extending along the outer surface of said cabinet adjacent the lower edge of said opening, a gasket extending along the inner surface of the cabinet adjacent the upper edge of said door opening, a door engageable against said gaskets, and door supporting means including first and second pairs of rollers, said first rollers being supported in axial alignment near opposite ends of the door near the upper edge thereof, a substantially horizontal first track in said cabinet at each end of said door on which said first rollers are supported, said first track being provided with a downwardly slop-

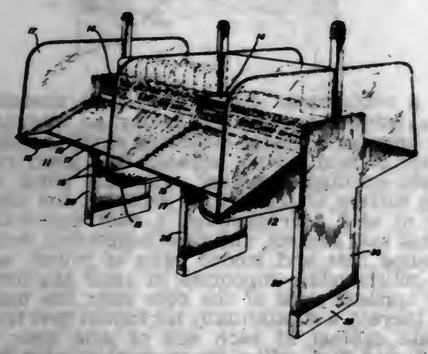
ing cam portion adjacent the door opening, said second rollers being secured in axial alignment to opposite ends of said door intermediate the top and bottom edges thereof, and a second track at each end of said door within said cabinet, said second track being upwardly inclined to guide the lower edge of the door upwardly as the upper edge of the door moves horizontally, and said second track having a horizontal lower end portion acting to substantially support the weight of the door in closed position thereof, whereby the downwardly sloping cam portion will urge the first rollers outwardly to thereby cause pivoting of said door about the horizontal lower portion of said second track to thereby urge said door into engagement with both named gaskets.

2,652,306
BRUSH AND DISPENSING CABINET
Ezra Reed Lindsay, Salt Lake City, Utah
Application October 19, 1948, Serial No. 55,399
1 Claim. (Cl. 312—207)



In a device of the character described, the combination of a compartmented body member of plastic material, said body member comprising a substantially continuous outer wall member and transverse partition elements integral therewith to form a pair of substantially identical cylindrical end compartments and a series of intermediate brush compartments of rectangular cross-section and an integral bottom wall enclosing a portion only of each of said brush compartments so as to hold a brush or the like in a restricted opening, a unitary removable cover for said body adapted to fit said outer wall member closely and enclose the top part of all said compartments, resilient detent means cooperating with each other on said body member and on said cover for holding said cover on said body member, and dispensing means in each of said end compartments.

2,652,307
SUPPORT STRUCTURE
Stanley J. Harasim, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 20, 1950, Serial No. 201,796
3 Claims. (Cl. 312—255)



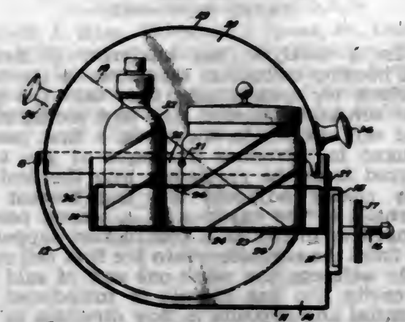
1. In a support structure, a pedestal assembly having a first body portion and a second body portion in spaced parallelism with said first body portion; a first flange, a first depending flange depending from said first flange, a second flange, and a second depending flange depending from said second flange on each of said body portions; said first depending flange of each of said body portions abutting said second flange on the other of said body portions and said second depending flange on each of said body portions abutting the other of said body portions, first and second upstanding portions on each of said body members, said upstanding portions being spaced apart to define a slot therebetween, a first channel-shaped support member affixed to and extending perpendicularly to the upstanding portions on said first body portion and positioned in the slot therebetween, a second channel-shaped support member affixed to, and positioned in the slot between, the upstanding portions on said second body portion, said second support member extending perpendicularly to said second body portion and in an opposite direction to said first support member, and means spaced from said first and second body portions for supporting said first and second support members.

2,652,308
CABINET CONSTRUCTION
Albin K. Peterson, Redondo Beach, Calif.
Application March 24, 1950, Serial No. 151,599
7 Claims. (Cl. 312—311)



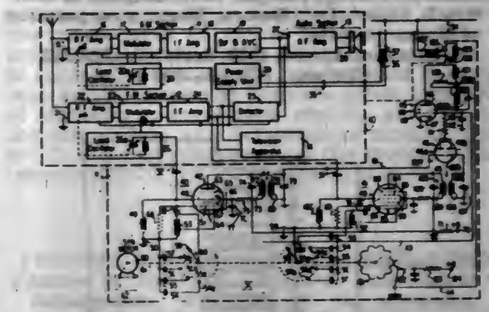
1. A lightweight cabinet construction for transporting and displaying bakery goods comprising: top and bottom flat, horizontal, rectangular plates having depending peripheral flanges, said bottom plate being of greater width than said top plate and presenting sidewardly extending marginal portions; front and rear posts of channel section supported on said marginal portions and connected to depending flanges of said top plate, the channels of said posts opening sidewardly to form longitudinally extending hand holds; a rear wall connected to said rear posts; side walls connected respectively to said front and rear posts, each side wall comprising extruded compartment panels having integrally formed pairs of horizontal inwardly extending spaced tray-supporting ribs, and extruded connecting panels at selected spaced intervals having top and bottom edges interlocked with adjacent compartment panels, each of said connecting panels having an inwardly extending horizontal rib adapted to support a door in overhead horizontal open position; horizontal bulkheads connected to and extending between opposite connecting side panels to define compartments in said cabinet; cross bars connecting front posts in the horizontal zones of the connecting panels and defining with the front posts front openings to said compartments; a flat door hung from said connecting panels and having an inwardly spaced vertical strap along each side edge adapted to contact and immovably hold trays carried within said compartments when said door is closed; a second channel member carried at the top of each post, web portions of the second channels on each side lying in the vertical plane of the depending flanges of the bottom plate, whereby said bottom peripheral flanges and said web portions provide bumper means for contact of a plurality of cabinets in adjacent side-by-side relation; said web portions being adapted to cooperate with a coupling device for tightly holding adjacent cabinets in side-by-side relation.

2,652,309
TRAY CABINET
Willis J. Gray, Detroit, Mich.
Application January 13, 1950, Serial No. 138,486
3 Claims. (Cl. 312—328)



1. In a cabinet, an open casing provided with end walls and an arcuate rear wall, a closure for said casing having end walls and being arcuate in cross section, said closure having the lower portion of its end walls overlapping the upper portion of the casing end walls, pivots connecting said end walls of the casing and closure at their overlapping portions whereby said closure is swingable on said pivots from a closure position to a nested position within said casing, and a generally horizontal U-shaped bracket secured at its forward edge to the forward wall of said casing, the rear edges of said U-shaped bracket being turned upwardly to provide a vertical flange spaced from the rear wall of said casing, said bracket also being equipped with generally vertical end walls spaced from the end walls of said closure and said casing and being secured to said pivots, whereby said bracket is supported interiorly of said casing while permitting said closure to be moved to a nesting position within said casing.

2,652,310
SYSTEM AND APPARATUS FOR DETERMINING THE LISTENING HABITS OF WAVE SIGNAL RECEIVER USERS
Serge A. Scherbatskoy, Tulsa, Okla., assignor to A. C. Nielsen Company, Chicago, Ill., a corporation of Illinois
Application October 24, 1947, Serial No. 781,986
8 Claims. (Cl. 346—37)

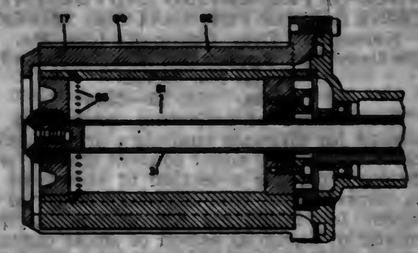


1. Apparatus for recording information relative to the particular transmitting station to which a wave signal receiver is tuned comprising, means for continually scanning the frequency spectrum by producing a signal varying in frequency in a series of discrete steps during each scanning cycle each frequency step representative of a particular transmitting station, means for producing during each scanning cycle a plurality of periodic signals equal in number to the number of scanning steps, and means responsive to the production of the predetermined one of said frequency steps representative of the transmitting station to which said receiver is tuned for rendering said last mentioned means ineffective for the portion of each scanning cycle remaining after the production of said frequency step, the portion varying in dependence upon the particular transmitting station to which said wave signal receiver is tuned.

CHEMICAL

2,652,311
METHOD OF AFTER-TREATING VISCOSE THREADS ADVANCING IN A HELICAL PATH
Kenneth M. McLellan, Cleveland, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
Application April 20, 1951, Serial No. 222,009
4 Claims. (Cl. 8—151.1)

1. In the continuous aftertreatment of viscose rayon thread including the step where the thread is heated while being advanced in the form of a helix by circulating steam therethrough the further treatment during this processing step comprising, continually heating the said helix while simultaneously substantially condensing the circulating steam inside the said helix, meanwhile continuously applying a treating liquid to a portion of said helix, continuously immediately radially passing said condensate as a wash to a subsequent portion of the said same helix.



2,652,312

DENTAL IMPRESSION MATERIAL

Arthur Fink, New York, N. Y., assignor to Plastodent, Inc., New York, N. Y., a corporation of New York

No Drawing. Application July 8, 1953, Serial No. 366,904. In Canada December 23, 1952
8 Claims. (Cl. 18—47)

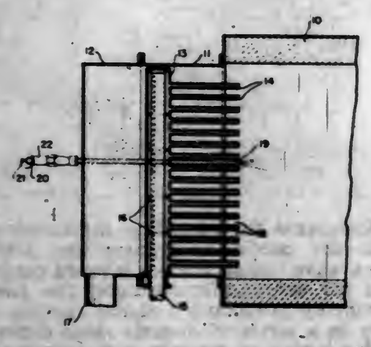
1 A dental impression composition comprising a water-soluble alginate, a gel-forming agent reactive therewith to form the composition into an elastic gel, a filler, and a fluoride of the group consisting of an alkali metal titanium fluoride and an alkali metal zirconium fluoride.

2,652,313

MANUFACTURE OF FURNACE CARBON BLACK

William L. Loving, Pampa, Tex., assignor to Godfrey L. Cabot, Inc., Boston, Mass., a corporation of Massachusetts

Application April 3, 1951, Serial No. 218,983
3 Claims. (Cl. 23—209.8)



1. The process of making furnace carbon black, which includes the steps of admitting a plurality of alternate continuous relatively thin vertically extending parallel layers of air and gas in streamline non-turbulent flow under conditions of incomplete combustion into a single elongated unobstructed combustion space, thereby causing burning to take place at the interfaces of the air and gas layers with decomposition of the unconsumed gas while in free space, injecting into the combustion space in a substantially central position with respect to the pattern of the air and gas layers a fine spray of hydrocarbon oil which has been atomized by gas in a divergent conical body and which is immediately surrounded by burning non-turbulent air-gas streams, and collecting the unconsumed carbon particles from the products of combustion.

2,652,314

METHOD OF PRESERVING AND PRESENTING A URINE SAMPLE FOR ANALYSIS THEREOF

Norman W. Drey, University City, Mo.

No Drawing. Application March 10, 1949, Serial No. 80,762
5 Claims. (Cl. 23—230)

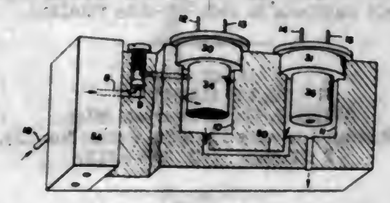
1. The method of collecting, preserving, and presenting for ultimate analysis a urine specimen for determination of sugar content thereof, which comprises providing a section of absorbent material, impregnating said absorbent material with an agent for inhibiting the decomposition by enzymatic or bacterial action of sugar contained in urine collected on said absorbent material, depositing a quantity of a liquid urine specimen on said material under atmospheric conditions, preserving the thus treated absorbent material for any selected period of time under atmospheric conditions, and ultimately subjecting the thus treated absorbent material to the indicated reagent for determining the sugar present in the absorbed specimen.

2,652,315

GAS ANALYZING DEVICES

James E. McEvoy, East Cleveland, Ohio, assignor to Bailey Meter Company, a corporation of Delaware

Application February 8, 1951, Serial No. 209,952
3 Claims. (Cl. 23—255)



2. In a catalytic gas analyzer; a metallic block housing including; regulators in the housing block for maintaining fluid into the block under constant pressure, first and second cylindrical cell cavities in the block, a first passage arranged to introduce a sample of gas to be analyzed from the regulators into the first cell cavity closely adjacent one end thereof and tangential to the cavity wall, a second passage arranged to introduce a combustion supporting fluid from the regulators into the first cell cavity closely adjacent the same one end of said first cell cavity the gas sample is introduced and tangential and opposite in flow direction to that of the gas sample, a third passage from the other end of the first cell cavity to the second cell cavity, an exhaust passage from said second cell cavity and an electrical heater for controlling the block temperature; a first shield within the first cell cavity, said first shield having in one end thereof an opening of large cross-sectional area; a second shield within the second cell cavity, said second shield having in one end thereof an opening of small cross-sectional area; identical filaments located within each shield and completely enclosed thereby; and an electrical network including the filaments for heating them to the same temperature.

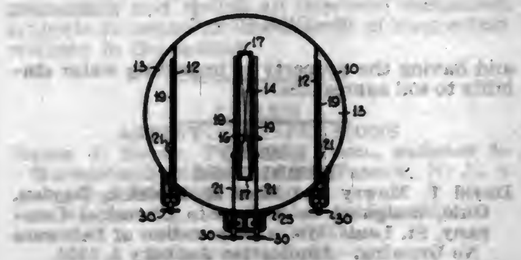
2,652,316

LIQUID-LIQUID CONTACTING APPARATUS

William A. Williams, Sarnia, Lambton, Ontario, Canada, assignor to Standard Oil Development Company, a corporation of Delaware

Application April 27, 1951, Serial No. 223,183
4 Claims. (Cl. 23—270.5)

1. A liquid-liquid contacting apparatus comprising a vertical tower, a plurality of horizontally disposed vertically spaced imperforate partition members positioned throughout said tower, each of said partition members terminating at points spaced from opposite sides of the tower, vertically positioned perforated plate elements fixed to adjacent pairs of partition members at the terminations of said partition members at both sides of the tower forming vertical conduits between said tower and said plate elements, horizontal baffle means positioned in and blocking the median portion of said conduits, and a second set of perforated plate elements fixed to said paired partition members at a central portion of said partition members forming a central vertical conduit between adjacent paired pairs of partition members, and horizontal baffle means positioned in and blocking the median portion of said central vertical conduit.

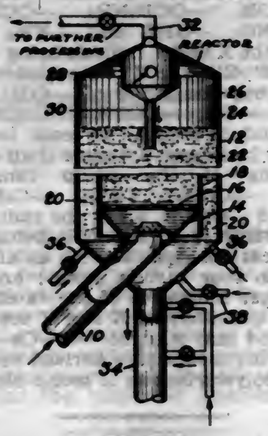


2,652,317

REACTOR INLET

Kenneth A. Rees, Theodore J. Innes, Jr., Leonard M. Williams, and Robert W. Williams, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application April 1, 1949, Serial No. 84,824
3 Claims. (Cl. 22—283)



1. An apparatus of the character described which comprises a reaction vessel, an inverted cone member in the bottom portion thereof, a perforated grid member superimposed on the outlet end of said inverted cone member, a cylindrical member adjacent to and surrounding said inverted cone member and extending above and below said perforated grid member forming an annular stripping zone with the sides of said reaction vessel, an inlet line communicating with the bottom portion of said inverted cone member at an angle to the vertical axis of said reaction vessel for the introduction of a mixture of solids and gases, tubular guiding means centrally positioned at the discharge end of said inlet line for changing the direction of flow of the mixture of solids and gases in said inlet line to vertically upward, dispersing means within said inverted cone member below said perforated grid member and positioned centrally above said guiding means for distributing said mixture uniformly over the bottom of said perforated grid member, an outlet line in the upper portion of said reaction vessel for removing gases therefrom and an outlet line in the lower portion of said reaction vessel for withdrawing solids therefrom.

2,652,318

PROCESS FOR THE MANUFACTURE OF SOLID MATERIALS CONSISTING OF AGGREGATED SOLID PARTICLES

James Hunter McKee, Ashtead, England, assignor to C. U. E. A. Patents Limited, Leatherhead, Surrey, England, a British company

No Drawing. Application November 3, 1950, Serial No. 194,033. In Great Britain November 4, 1949
19 Claims. (Cl. 44—15)

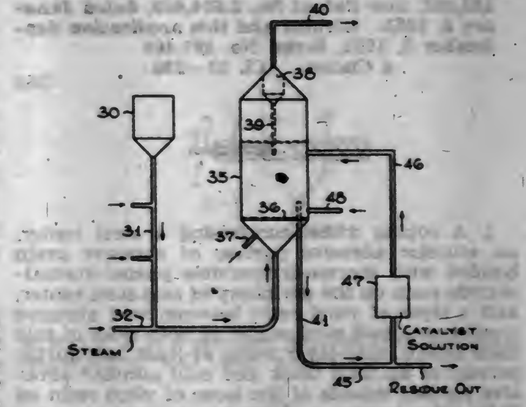
1. A process for the manufacture of solid materials consisting of aggregated solid particles, wherein a composition containing solid particles intermixed with an amine digestion mixture is prepared by mixing solid particles consisting of or containing a digestible carbonaceous material with an amine selected from the group consisting of aliphatic or araliphatic amines, and heating the composition at a temperature ranging from 80° C. to a temperature below the decomposition temperature of the carbonaceous material.

2,652,319

PROCESS FOR WATER-GAS GENERATION

Sumner B. Sweetser, Cranford, and Walter G. Scharmann, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

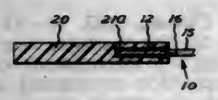
Application January 3, 1949, Serial No. 68,946
8 Claims. (Cl. 48—206)



1. The process of producing gas mixtures containing carbon monoxide and hydrogen which comprises passing a stream of finely-divided carbonaceous solid material into an initial water gas reaction zone, forming a fluidized mass of solids therein, subjecting said mass to a gasification reaction with steam at temperatures of from about 1500° to 2000° F. to produce a gas rich in H_2 and CO, withdrawing said gas from said water gas reaction zone, withdrawing from said water gas reaction zone, finely divided char of high surface area, passing at least a portion of said char into a catalyst impregnation zone, impregnating in said zone said char with a catalyst promoting gasification of carbon, recycling said impregnated char of high

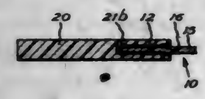
surface area to said water gas reaction zone and recovering a gas rich in H_2 and CO from said last-named zone.

2,652,320
GRINDING WHEEL
Ernest Douglas Teague, Welwyn Garden City, England, assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Original application September 7, 1950, Serial No. 183,552, now Patent No. 2,624,660, dated January 6, 1953. Divided and this application September 2, 1952, Serial No. 307,467
4 Claims. (Cl. 51—298)



1. A coping wheel comprising a steel center, an annular abrasive portion of abrasive grain bonded with thermo-irreversible phenol-formaldehyde resin on the periphery of said steel center, and a layer of alkyd resin between said abrasive portion and said steel center on both sides of said steel center, said layer being at least one thirty-second of an inch thick and said annular abrasive portion outside of the layer of alkyd resin on both sides having a thickness at least as great as that of the layer of alkyd resin within it.

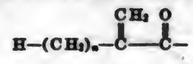
2,652,321
GRINDING WHEEL
Ernest Douglas Teague, Welwyn Garden City, England, assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Original application September 7, 1950, Serial No. 183,552, now Patent No. 2,624,660, dated January 6, 1953. Divided and this application September 2, 1952, Serial No. 307,468
4 Claims. (Cl. 51—298)



1. A coping wheel comprising a steel center, an annular abrasive portion of abrasive grain bonded with thermo-irreversible phenol-formaldehyde resin on the periphery of said steel center, and a layer of vinyl resin between said abrasive portion and said steel center on both sides of said steel center, said layer being at least one thirty-second of an inch thick and said annular abrasive portion outside of the layer of vinyl resin on both sides having a thickness at least as great as that of the layer of vinyl resin within it.

2,652,322
HERBICIDES
Ross M. Hedrick and David T. Mowry, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application January 3, 1951, Serial No. 204,258
4 Claims. (Cl. 71—2.7)

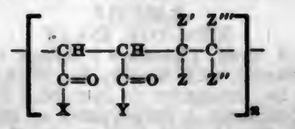
3. A solid composition comprising a herbicide and a water-soluble polyelectrolyte having a molecular structure derived essentially by the polymerization of a mono-olefinic compound through aliphatic unsaturated groups, said polyelectrolyte being a polymer of at least one compound containing the molecular grouping



and having the property of imparting water stability to soil aggregates.

2,652,323
HERBICIDES
David T. Mowry and Ross M. Hedrick, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application January 3, 1951, Serial No. 204,259
4 Claims. (Cl. 71—2.7)

1. A solid composition comprising from 0.05 to 20 per cent by weight of a herbicide and from 80 to 99.95 per cent of a carrier consisting of a water-soluble copolymer having numerous recurring units of the following structure:



wherein X and Y are radicals selected from the group consisting of —OK, —ONa, —ONH_4, —$ONRH_3$, —ONR_2H_2, —ONR_3H, —ONR_4, —OH, —NH_2, —OR, —OCH_2NR_2, —$OCH_2CH_2NR_2$, —$NCH_2CH_2NR_2$, —NHR and —NR_2, not more than one of the X and Y radicals being —OR: and wherein Z, Z', Z'', and Z''' are radicals selected from the group consisting of —C_6H_5, —OCOH, —$OCOCH_3$, —OR, —COOR, —COOH, —CH_3, —OH, Cl and hydrogen, at least two of said groups being hydrogen, not more than one of said groups being of the group consisting of —$OCOCH_3$, —OCOH, —OH, —C_6H_5, —OR, —COOH and —COOR, all of the radicals of the group consisting of Cl and CH_3 being attached to the same carbon atom, R being an alkyl radical having up to four carbon atoms; and wherein n is an integer indicative of the extent of polymerization; and wherein X and Y together may be —O—, and may also be —O—Ca—O—, said polymer having a structure derived substantially entirely by polymerization of mono-olefinic compounds.

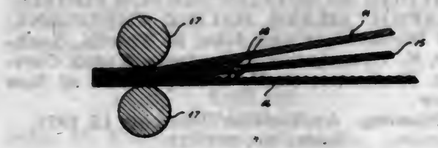
2,652,324
CAST IRON
Harold W. G. Hignett, Edgbaston, Birmingham, England, assignor to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application July 27, 1949, Serial No. 107,143. In Great Britain July 29, 1948
3 Claims. (Cl. 75—130)

2. The process for producing improved graphite structures in magnesium-containing gray cast iron which comprises establishing a molten iron bath containing a relatively high value of sulfur of at least about 0.08% and having such a composition as to be a gray cast iron when inoculated and cast, conditioning the molten iron of said bath by adding to said iron under a basic slag calcium in an amount approximately equal on a weight basis to the amount of sulfur in excess of 0.02%, separating said slag and the thus-conditioned molten iron from each other, thereafter introducing magnesium into said conditioned molten iron to retain about 0.01% to about 0.04% magnesium in said molten iron, and casting the magnesium-containing molten iron in an inoculated condition to obtain a gray iron casting containing about 0.01% to about 0.04% retained magnesium and having an improved compacted graphite structure for the amount of magnesium retained in the casting.

2,652,325
ASBESTOS DISPERSIONS
Izader J. Novak, Trumbull, Conn., assignor to Raybestos-Manhattan, Inc., Passaic, N. J., a corporation of New Jersey
No Drawing. Application April 1, 1952, Serial No. 279,951
7 Claims. (Cl. 92—1)

1. A method for controlled reversion of a colloidal dispersion of chrysotile asbestos fibers in an aqueous vehicle formed with a water soluble fatty acid soap as the asbestos dispersing agent, which comprises adding thereto a water soluble alkaline material to raise the pH of the dispersion about 0.5 to about 1.5 pH numbers.

2,652,326
ART OF MAKING STEREOSCOPIC PICTURES
James A. Ogle, Phoenixville, Pa., assignor, by direct and mesne assignments, to The Sperry Corporation, a corporation of Delaware
Application March 26, 1949, Serial No. 83,726
6 Claims. (Cl. 95—2)



3. The method of making a stereoscopic picture comprising bringing a sheet of transparent plastic into face contact with a die and pressure molding lenticular lineations from the die into the contiguous face of the sheet, photographically sensitizing the opposite face of the sheet, and photographically exposing the sensitized face to a stereoscopic image while the die and sheet are engaged and the lenticular lineations are stabilized.

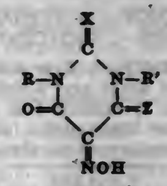
2,652,327
PHOTOGRAPHIC COLOR REPRODUCTION PROCESS
Louis M. Condax, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application July 19, 1951, Serial No. 237,630
5 Claims. (Cl. 95—2)



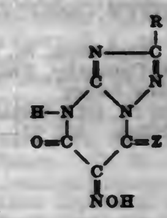
1. The method of making a color and tone-corrected photographic print by means of three dyed color separation reliefs, whose dye images are superimposed to give a print, at least one of which dye images has both wanted and unwanted spectral absorption, which comprises correcting for the unwanted light absorption of one of said dye images having wanted and unwanted spectral absorption and at the same time correcting for unwanted highlight density of another of said dye images, by removing dye from the dyed relief which records the color which is unwantedly absorbed, by bringing it into contact and in register with an undyed relief containing the areas of unwanted absorption, the highlight density areas of which have been increased by uniform light exposure, and then combining the corrected relief thus obtained, with the remainder of said three color separation reliefs to produce a color picture.

2,652,328
HIGH-SPEED SILVER DYE BLEACHOUT TAKING AND PRINTING FILM
Joseph A. Sprung, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Original application April 18, 1950, Serial No. 156,730, now Patent No. 2,635,960, dated April 21, 1953. Divided and this application July 9, 1952, Serial No. 297,989
2 Claims. (Cl. 95—2)

1. Multilayer material capable of being processed by the silver dye bleachout method comprising a base, a red sensitive halide emulsion layer on the base containing as a color former for cyan a compound selected from the class consisting of those of the following formulae:



and



in which X is a member selected from the class consisting of =O, =X, =N—Y, or



Y is selected from the class consisting of hydrogen, cyano, aliphatic, and aromatic radicals, R and R' are selected from the class consisting of hydrogen, alkyl, and aryl, and Z is selected from the class consisting of =O and =NH, a green sensitive silver halide emulsion layer on the red sensitive layer containing a component selected from the class consisting of a non-diffusing magenta azo dye and a non-diffusing azo dye coupling component capable of yielding a magenta azo dye, and a blue sensitive silver halide emulsion layer on the red sensitive layer containing a component selected from the class consisting

of a yellow non-diffusing azo dye and a non-diffusing azo dye coupling component capable of yielding a yellow azo dye.

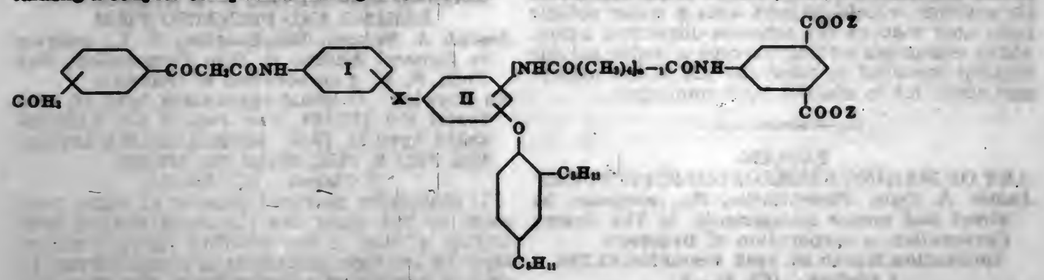
2,652,329

COLOR COUPLERS CONTAINING ISOPHTHALIC ACID RADICALS

Fred C. McCrossen, Stanley M. Parmerter, and Arnold Weissberger, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application July 31, 1952, Serial No. 301,962
7 Claims. (Cl. 95—6)

1. A gelatino-silver halide emulsion layer containing a coupler compound having the formula



where X is selected from the class consisting of —CONH—, —CH_2CONH—, —$(CH_2)_2$CONH—, —$(CH_2)_3$CONH—, —$(CH_2)_4$CONH—, —OCH_2CONH—, —$O(CH_2)_3$CONH—, and —CH=CHCONH—, Z is selected from the class consisting of alkyl and alkali metal, n is an integer from 1 to 2, radical I is connected to X in a position other than ortho, and radical II is substituted in a position other than para to X.

2,652,330

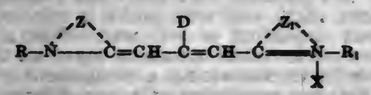
SUPERSENSITIZATION OF PHOTOGRAPHIC EMULSIONS WITH COMPLEX MEROCYANINE DYES

Burt H. Carroll, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

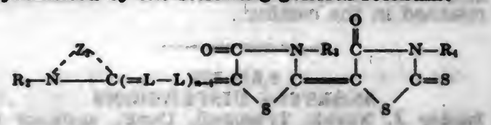
Application May 23, 1952, Serial No. 289,623
19 Claims. (Cl. 95—7)



1. A photographic silver halide emulsion sensitized with a supersensitizing combination of at least one meso-substituted dye selected from those represented by the following general formula:



wherein R and R_1 each represents an alkyl group, D represents a member selected from the group consisting of an alkyl group and an aryl group, Z and Z_1 each represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from the group consisting of those of the benzothiazole series, those of the benzoselenazole series, and those of the β-naphthothiazole series, and X represents an acid anion, and at least one complex merocyanine dye selected from those represented by the following general formula:



wherein R_2, R_3, and R_4 each represents an alkyl group, L represents a methine group, n represents a positive integer of from 1 to 2, and Z_2 represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from the group consisting of those of the benzothiazole series and those of the β-naphthothiazole series.

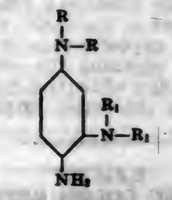
2,652,331

4-AMINO-N,N-DIALKYL-3-DIALKYLAMINOANILINES AS DEVELOPERS FOR PHOTOGRAPHIC SILVER HALIDE EMULSIONS

Arnold Weissberger and John R. Thirtle, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application December 15, 1951, Serial No. 261,912
10 Claims. (Cl. 95—88)

1. A developing solution for producing colored photographic images comprising as a silver halide developing agent, a compound having the general formula



wherein R and R_1 each represent alkyl groups containing from 1 to 4 carbon atoms, and a compound which couples with the oxidation product of said developing agent at the primary amino group to form a colored image on development.

2,652,332

STABILIZATION OF LIPOIDAL SUBSTANCES

Harold S. Olcott, Berkeley, and Ted Wildy Campbell, Orinda, Calif., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application July 19, 1951, Serial No. 237,654
6 Claims. (Cl. 99—3)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A process of stabilizing a carotene-containing substance which is normally subject to oxidative deterioration which comprises adding thereto an antioxidant selected from the group consisting of 2-amino-3-hydroxy-benzoic acid and the esters thereof.

2,652,333

METHOD OF MAKING AVAILABLE THE BITTER SUBSTANCES FROM HOPS

Tore Ragnar Nilsen, Bromma, and Knut Evald Sandegren, Stockholm, Sweden

No Drawing. Application December 18, 1950, Serial No. 201,496. In Sweden December 22, 1948
20 Claims. (Cl. 99—50.5)

1. In a method of converting the bitter substances non-soluble in water, remaining in hops residue after obtaining from the same the water-soluble bitter substances in a manner shown per se, the step of subjecting the bitter substances of said residue to a partial oxidation so as to convent its content of beta bitter acid into water-soluble soft resins.

2,652,334

COMPOSITION FOR COLORING MARGARINE

William E. Barch, Bronx, N. Y., assignor to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware

No Drawing. Application August 13, 1949, Serial No. 110,231
6 Claims. (Cl. 99—148)

1. A composition for coloring margarine comprising an emulsion of a fatty material in a thixotropic aqueous gel of an edible metal salt of a partially deesterified pectin, said emulsion having dispersed therein a dye which is soluble in the fatty phase of margarine but insoluble in water.

2,652,335

PACKAGE

John D. Conti, Philadelphia, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

Application December 20, 1949, Serial No. 134,622
1 Claim. (Cl. 99—171)



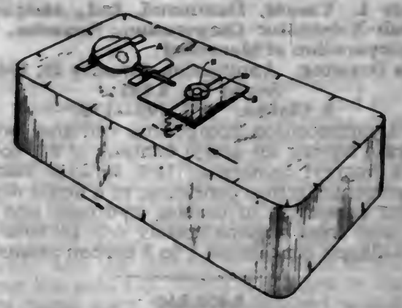
A new and improved package of fruit, vegetables and other plant products which undergo a ripening process and are liable to rot comprising an elongated trough-like paper carton having a base, sidewalls, endwalls, and an open top, a plant product of the aforesaid type resting on the base and confined thereon between the endwalls and sidewalls of the carton, spaced ventilating openings in the sidewalls and endwalls, said openings being near the base, flaps extending inwardly from the upper edge of the endwalls, and a flexible transparent integral covering consisting of a single rectangular sheet of cellophane having straight edges, said covering extending over the open top and sealed to the outside of the upper portions only of the sidewalls and endwalls with an adhesive layer along all four of its edges, the lower marginal edges of said covering defining an unbroken line lying in a plane above said openings, substantially parallel to the base and spaced therefrom.

2,652,336

MARGARINE PACKAGE

Bernard T. Hennagen, Chicago, and Dean E. Rueckert, Mokena, Ill., assignors to Swift & Company, Chicago, Ill., a corporation of Illinois

Application September 26, 1949, Serial No. 117,866
3 Claims. (Cl. 99—179)



1. A package for the coloring of margarine or the like comprising: a pliable, flexible container, a weakened spot on one wall of said container at a point remote from the mouth of said container, and an insert affixed to the inside of the container wall directly beneath said weakened spot, said insert comprising a pair of L-shaped members placed back to back with the inwardly-extending portion of each having a recessed segment extending the full length thereof, the recessed segment of one forming with the recessed segment of the other a passage extending from said weakened spot on the container wall to the interior of said container, the said L-shaped members being secured one to the other along each side of said recessed segments.

2,652,337

FUMIGANT COMPOSITIONS CONTAINING COMPLETELY HALOGENATED BROMOCHLOROMETHANES HAVING AT LEAST TWO CHLORINE ATOMS

John A. Pianfetti, South Charleston, W. Va., Roy Melvin, Dobbs Ferry, N. Y., and Hilton H. Earle, Jr., Belle Glade, Fla., assignors to Food Machinery and Chemical Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application January 19, 1950, Serial No. 139,526
8 Claims. (Cl. 99—225)

1. A volatile fumigant composition containing by weight between 75% and 98% of a liquid chlorinated hydrocarbon of not more than two carbon atoms, having a boiling point below 150° C., and between 2% and 25% of a completely halogenated bromochloromethane selected from the group consisting of bromotrichloromethane and dibromodichloromethane.

2,652,338

PREPARATION OF CERAMIC BODIES FOR PLASTIC FORMING

Herbert H. Gregor, Rockville, Md.

No Drawing. Application May 13, 1952, Serial No. 287,529
12 Claims. (Cl. 106—39)

1. A method of preparing a ceramic body for molding comprising mixing dry ceramic material having wetting properties preferential to water over a water immiscible organic liquid with said liquid to form a slurry, adding an aqueous medium to said slurry, agitating the mixture until the aqueous medium has displaced in water im-

miscible liquid in the slurry, and separating the mass of ceramic material and aqueous medium from the water immiscible liquid.

2,652,239
SOLUTION OF CELLULOSE ACETATE BUTYRATE
Luther L. Yaeger, Hammond, Ind., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
No Drawing. Application January 28, 1948, Serial No. 4,945
2 Claims. (Cl. 106—179)

1. A composition comprising cellulose acetate butyrate having an acetyl content of 8% to 43% and a butyryl content of 15% to 22% dissolved in a solvent mixture consisting of a liquid organic solvent consisting of carbon, hydrogen and oxygen, and from approximately 5% to 90% of a nitro-alkane containing 1 to 3 carbon atoms.

2,652,240
STABILIZED CELLULOSE LOWER ALKANOATES
Gordon D. Hiatt and Robert F. Williams, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application June 4, 1949, Serial No. 97,325
8 Claims. (Cl. 106—181)

1. A lower fatty acid ester of cellulose containing .05–.5 hydroxyls per C_6 unit of cellulose, which ester has a sulfur content of .001–.015% and an ash content of not more than .05% in which has been incorporated an alkali metal acid salt of an acid selected from a group consisting of oxalic, malic and tartaric in the amount of 1–3 molecular equivalents of the salt per equivalent of sulfate ion in the ester whereby the cellulose ester is stabilized against the effects of elevated temperatures.

2,652,241
ASPHALT EMULSION
Willis G. Craig, Cleveland, Ohio, assignor to The Lubrizol Corp., Wickliffe, Ohio, a corporation of Ohio
No Drawing. Application March 25, 1950, Serial No. 152,007
2 Claims. (Cl. 106—277)

2. An asphaltic emulsion comprising a major amount of a stable clay asphalt-in-water emulsion and a minor amount of a surface active agent, which surface active agent is slightly water soluble but to only a minor extent and is soluble in asphaltic materials to a substantially greater extent, said surface active agent comprising an alkali metal paraffin wax hydroxy phenyl sulfonate.

2,652,242
SYNTHETIC DRYING OIL AND ENAMEL PAINT AND PROCESS OF MAKING SAME
Anthony H. Gleason, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application July 1, 1949, Serial No. 102,703
8 Claims. (Cl. 106—285)

1. An enamel base comprising an oily sodium copolymer of 75 to 85 parts of butadiene-1,3, 25 to 15 parts of styrene and 0.05 to 0.5 part of maleic anhydride combined therewith, said copolymer having an intrinsic viscosity between about 0.15 and 0.30.

2,652,243
PHOTOGRAPHIC DYE SOLUTION
Clarence E. Payne, San Francisco, Calif.
No Drawing. Application December 22, 1947, Serial No. 793,227
14 Claims. (Cl. 106—287)

1. A stable dilute photographic dye solution for transferring a dye at a substantially uniform controlled rate into a photographic gelatin film, said solution having a pH close to the isoelectric point of gelatin and consisting essentially of a dilute aqueous solution of a dye, an aliphatic dihydroxy alcohol, acetic acid in amount capable of imparting to said dilute solution a pH of the order set forth, a wetting agent, and a hardening agent for the gelatin selected from the group consisting of acetaldehyde, paraldehyde, and aldol.

2,652,244
CARBON BLACK PELLETING
Russell K. Simms, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application April 1, 1949, Serial No. 84,926
4 Claims. (Cl. 106—307)



1. A method for the production of an improved carbon black pellet product comprising reacting hydrogen sulfide and sulfur dioxide in the presence of bauxite as a catalyst at a temperature between the limits of 400° F. to 600° F. to form vaporous elementary sulfur, adding to a stream of carbon black in gaseous suspension from 0.05 per cent to 10 per cent by weight of said vaporous elementary sulfur based on the weight of the carbon black, separating an admixture of carbon black and sulfur from the suspending gases and subjecting this admixture of carbon black and sulfur to carbon black dry pelleting conditions at a temperature above 175° F. and below the melting point of sulfur.

2,652,245
METHOD OF SETTING PROTEIN CONTAINING COATINGS WITH AMMONIUM
Jean E. Jones, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application April 29, 1952, Serial No. 285,067
16 Claims. (Cl. 117—34)

4. In the application of coatings of solutions in water of at least 2% concentration of protein having a pH at which the protein will remain in solution at room temperature which protein solutions contain therein in suspension silver halide particles, to a support therefor, the method of quick setting those coatings which comprises incorporating in the protein solution containing the silver halide in suspension therein ¼–50% (based on the weight of the protein) of an aldehyde selected from the group consisting of formaldehyde, glyoxal and acrolein, coating out the protein composition in fluid form onto the support and fuming the coating with gaseous ammonia whereby rapid setting of the coating is obtained without chilling thereof being necessary.

2,652,246
CELLULOSE PROPIONATE GEL LACQUER COMPOSITION AND METHOD OF APPLYING
Ralph E. Perser, Bloomfield, N. J., and Alan P. Baruch, Stamford, Conn., assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application October 19, 1948, Serial No. 55,427
10 Claims. (Cl. 117—95)

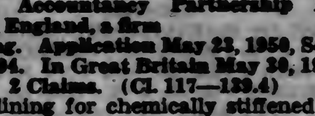
10. Process which comprises applying a cellulose nitrate undercoating to the surface of an article, coating said article with a gel lacquer comprising from about 15 to 40 parts by weight of cellulose propionate in about 100 parts by weight of a solvent mixture in which the solvents consist of from about 50 to 10% by weight of a material of the group consisting of propyl acetate, isopropyl acetate, butyl acetate and amyl acetate and from about 50 to 90% by weight of a material of the group consisting of xylol and toluol, and gelling the coating so produced by reducing its temperature below the gelation temperature.

2,652,247
METHOD OF REMOVING EXCESS IMPREGNANT FROM IMPREGNATED WOOD
Monie S. Hudson, Spartanburg, S. C.
No Drawing. Application October 21, 1949, Serial No. 122,257
5 Claims. (Cl. 117—102)

5. The method of removing excess impregnant from impregnated wood and thereby minimizing subsequent bleeding of the impregnant onto the surface thereof, which comprises heating the impregnated wood in a closed space by introducing into said closed space vapors of an organic solvent for the impregnant having a boiling point at the pressure in said closed space not higher than about 320° F. so that said heating is carried out at a temperature substantially below the temperature at which said wood would be damaged by heating, but said boiling point being not less than 25° F. to 50° F. higher than the initial temperature of said impregnated wood whereby said wood is heated by said vapors so that excess impregnant in the outer layers of the wood is effectively expanded and forced to the surface of said wood, continuing introduction of said organic solvent vapors until said excess impregnant is extracted to a desired extent by condensate of said organic solvent continuously formed on the surface of said wood in said closed space for solvent action at full strength, and draining and recovering said condensate and extracted excess impregnant from said wood.

2,652,248
ANTISTATIC TREATMENT OF SHAPED ARTICLES COMPRISING A VINYL RESIN AND TREATED ARTICLES
Joseph J. Carnes, Greenwich, and William T. Booth, Jr., Springdale, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application July 21, 1950, Serial No. 175,296
11 Claims. (Cl. 117—138.8)

1. The method of conditioning a shaped article comprising a thermoplastic vinyl resin to lessen its tendency to accumulate static charges of electricity thereon, said method comprising applying to the said article a volatile liquid containing a sulfosuccinate salt represented by the general formula



wherein Z represents a grouping of the class consisting of

(a) R—,
(b) R'—COO—R''— and
(c) R'—CONH—R''

and wherein R and R' each represents a long-chain aliphatic hydrocarbon radical and R'' represents a radical of the class consisting of alkylene radicals and hydroxyalkylene radicals each containing from 2 to 5 carbon atoms, inclusive, an Gn represents a cationic salt-forming substance of the class consisting of guanidine, lower-alkylguanidines, phenylguanidines, alkylolguanidines, guanylures, biguanide and phenylbiguanides, and the amount of the said liquid containing the said salt which is applied to the said article being such that the finished article has associated therewith from, by weight, 0.2% to 4% of the said salt, based on the weight of the dry, untreated article, and drying the thusly treated article.

2,652,249
INTERLINING FOR THE MANUFACTURE OF CHEMICALLY STIFFENED ARTICLES OF WEARING APPAREL
Lajos Bihaly, London, England, assignor to Industrial Accountancy Partnership Limited, London, England, a firm
No Drawing. Application May 23, 1950, Serial No. 163,794. In Great Britain May 30, 1949
2 Claims. (Cl. 117—139.4)

1. Interlining for chemically stiffened articles of wearing apparel, which, in addition to cotton fibers contains fibrous cellulose acetate material spaced at intervals in open mesh arrangement in the interlining, said interlining being impregnated with 2–5% of a co-polymer of ethyl acrylate and styrene, having a softening point of between about 50° and 130° C., without affecting its adhesive properties, in order to stiffen the interlining.

2,652,250
BEARING-CLEANING DEVICE AND METHOD
Philip T. Dailey, Akron, Ohio
Application November 16, 1948, Serial No. 60,289
7 Claims. (Cl. 134—23)



1. A device for cleaning an anti-friction bearing comprising a container for holding a cleaning solution, a rotor in the container adapted to receive the bore of an anti-friction bearing with the portion receiving the bearing adapted to be immersed in the cleaning solution, two sleeves of yieldable composition removable from the rotor and longitudinally slidable thereon and adapted to hold a bearing between them concentric with the rotor, those ends of the respective sleeves which are adapted to contact the bearing tapering whereby the sleeves are longer at the bore, means for rotating the rotor, and means for removably mounting the rotor in the container in operative connection with the driving means.

5. The method of cleaning an anti-friction bearing which comprises rotating the races of the

bearing in a cleaning solution at different speeds by driving only one of the races and retarding the speed of rotation of the other race by the resistance of the cleaning solution.

2,652,251
PAPER ADHESIVE TAPE
James S. Gerhardt, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 2, 1949, Serial No. 113,828
3 Claims. (Cl. 154—53.5)



1. As an article of manufacture a flexible paper adhesive tape exhibiting substantial lengthwise tensile strength but being susceptible of relatively easy crosswise severance by tearing, said tape being made up of a foundation member comprised of two relatively thin flexible strips of hemp paper laminated together by adhesive, said adhesive being comprised in parts by weight of rubber, between 7 and 11 parts; rosin, between 3.5 and 5.5 parts; pitch, between 5 and 8 parts; and zinc oxide, between 4 and 6 parts; the outside of one of the strips of paper being coated with a relatively impermeable coating composition which contains a cellulose derivative as an essential ingredient and the other paper surface of the foundation being coated with a plurality of coats of the adhesive aforesaid.

2,652,252
PROCESS OF MAKING EMBOSSED ARTICLE AND PRODUCT THEREOF
Alan E. Murray, New York, N. Y.
Application July 28, 1948, Serial No. 41,958
14 Claims. (Cl. 154—106)



3. A process which comprises producing an embossed leather containing in the leather and in the concavities of the embossing a unitary continuous body of latex by embossing leather wet to a point approximating saturation throughout the body thereof with latex, embossing the leather while wet by applying power pressure to fill the concavities of the embossing with the latex while wet, pressed from within the body of the leather, and allowing the latex to gel while maintaining the leather in the embossed shape, the leather also having had latex introduced into the concavities of the embossing before the first mentioned latex has completely set after removing the pressure, the embossed leather having a stiff coated flat backing adherent to the leather below the embossing.

2,652,253
ADHESION OF RUBBER TO FIBER
Matthew W. Wilson, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application August 27, 1948, Serial No. 46,552
24 Claims. (Cl. 154—136)

1. The method of adhering organic fiber to a body of vulcanizable rubbery conjugated diene polymer, which method comprises treating said fiber with an aqueous dispersion comprising 3 to 40% by weight of a rubbery conjugated diene polymer, 0.5 to 20% by weight of a resin prepared by a method consisting essentially of condensing substantially equimolar proportions of a phenol with an aldehyde in the presence of 0.05 to 5%, by weight of said phenol, of an acidic catalyst and from 30 to 150 percent by weight based on the combined weight of the aldehyde and phenolic reactants, of a water-miscible volatile organic solvent, the resin:polymer ratio in said dispersion being from 1:6 to 1:2 by weight, and 0.1 to 5% by weight of a base, drying said treated fiber and assembling said fiber in intimate relation with said body of rubbery polymer, and vulcanizing the body of rubbery polymer in said assembly.



14. An article comprising a body of vulcanized rubbery conjugated diene polymer bonded to a synthetic organic fiber with an intermediate adhesive layer comprising a vulcanized rubbery conjugated diene polymer and a thermoset resin, said adhesive prepared by a method consisting essentially in condensing substantially equimolar proportions of a phenol with an aldehyde in the presence of from 0.05 to 5% by weight, based on said phenol, of an acid catalyst and a water miscible volatile organic solvent in an amount of from 30 to 150% by weight based on the combined weights of said phenol and said aldehyde to form a substantially linear condensation resin, adding an aqueous solution of a base in an amount sufficient to dissolve said resin, incorporating said aqueous basic resin mix with an aqueous dispersion of a vulcanizable rubbery conjugated diene polymer to form an adhesive composition containing from 0.5 to 20% by weight of said resin and from 3 to 40% by weight of said polymer in a ratio therebetween of from 1:6 to 1:2 parts by weight.

21. An adhesive composition comprising an aqueous dispersion containing from 3 to 40% by weight of said composition of a rubbery conjugated diene polymer, from 0.5 to 20% of a resin prepared by a process consisting essentially of condensing substantially equimolar proportions of a phenol with an aldehyde in the presence of from 0.05 to 5.0% by weight of said phenol, of an acidic catalyst, and from 30 to 150 percent by weight, based on the combined weights of the aldehyde and phenolic reactants, of a water-miscible volatile organic solvent, the resin:polymer ratio being from 1:6 to 1:2 by weight and from 0.1 to 5.0% of a base.

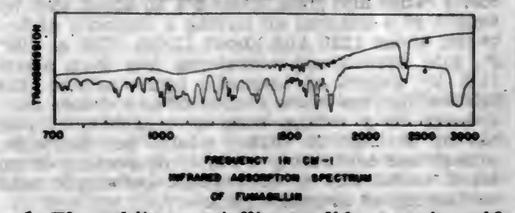
2,652,254
METHOD OF UNITING SOLIDS WITH THE AID OF BINDING AND ADHESIVE AGENTS
Ian Gordon Cumming Dryden, Wallington, and James Hunter McKee, Ashtead, England, assignors to C. U. R. A. Patents Limited, Leatherhead, Surrey, England, a British company
No Drawing. Application November 3, 1950, Serial No. 194,039. In Great Britain November 4, 1949
23 Claims. (Cl. 154—142)

1. A method of uniting solids with the aid of a binding or adhesive agent, wherein a coal-amine digestion mixture is incorporated between the solids to be united, and the digestion mixture is caused to harden in situ by heating it at a temperature ranging from 80° C. to a temperature below the decomposition temperature of the coal used for producing the digestion mixture.

2,652,255
FUNGICIDES
Nicholas Ercoli, Milan, Italy, and Gijsbertus van Wessem, Harrison, N. Y., assignors to Warner-Hudnut, Inc., a corporation of Delaware
No Drawing. Application January 31, 1950, Serial No. 141,578
4 Claims. (Cl. 167—58)

1. A fungicidal composition comprising, as an essential active ingredient γ-(p-bromphenoxy)-propyl thiocyanate and a carrier therefor, the proportion of the active essential ingredient being within the range of about 0.05 to about 3.00 percent by weight of the combined weight of said ingredient and said carrier, said composition being adapted for application to the human skin for control of pathogenic organisms thereon.

2,652,256
FUMAGILLIN AND PREPARATION
Frederick R. Hanson and Thomas E. Eble, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan
Application September 25, 1950, Serial No. 186,668
8 Claims. (Cl. 167—65)



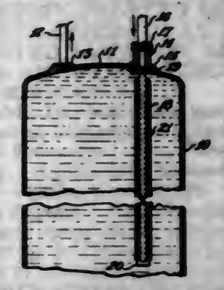
INFRARED ABSORPTION SPECTRUM OF FUMAGILLIN

1. The white, crystalline, solid, organic acid fumagillin containing only the elements carbon, hydrogen and oxygen, having a pK of about 6.5, melting at 189–194 degrees centigrade (Kopfler block) and 190–191 degrees centigrade (capillary tube), an optical rotation $[\alpha]_D^{25}$ of minus 26.6 degrees, a molecular weight of about 475–490, whose ultraviolet spectrum shows peaks at 239 mμ, 336 mμ and 351 mμ, with k values of 7.52 at 239 mμ, 147.3 at 336 mμ and 136.4 at 351 mμ, whose infrared spectrum shows bands at the following frequencies expressed in reciprocal centimeters, 3120, 1714, 1632, 1597, 1576, 1491, 1377, 1230, 1163, 1124, 1013, and 838, forming a methyl ester melting at 145–147 degrees centigrade, an octabromide melting at 118–122 degrees centigrade, an amide charring at 160 degrees centigrade, and a 2,4-dinitrophenylhydrazone melting at 123–126 degrees centigrade.

2,652,257
SELECTIVE EXTRACTION OF SUBSTANCES POSSESSING ANTIPERNICIOUS ANEMIA ACTIVITY WITH DIETHYLACETIC ACID
Jared H. Ford and William G. Jackson, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan
No Drawing. Application August 3, 1950, Serial No. 177,566
3 Claims. (Cl. 167—81)

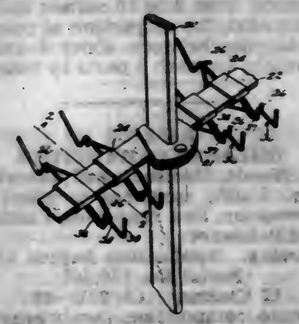
1. A method for the purification of antipernicious anemia factors having vitamin B_{12} activity obtained from biological sources comprising intimately mixing a water solution of said factors having vitamin B_{12} activity and the genetic impurities associated therewith and diethyl acetic acid, allowing the intimate mixture to separate into its two component phases, removing the diethyl acetic acid phase and precipitating the purified material having vitamin B_{12} activity from the diethyl acetic acid by the addition of an inert, water-immiscible organic solvent.

2,652,258
WATER HEATER FITTINGS
Frank A. McFerran, Pittsburgh, Pa.
Application June 13, 1950, Serial No. 167,776
6 Claims. (Cl. 204—197)



1. A water heater fitting comprising a tubular bushing externally threaded for engagement in a threaded hole in a wall of a water heater, said bushing having means at its outer end for the attachment of a water line, and having removably attached, at its inner end, a pipe for passage of water to said fitting, said pipe adapted to extend to near the bottom of a water heater to which said fitting may be secured, said pipe terminating at its lower end in a portion constituting a shoulder, and a tube of sacrificial metal surrounding said pipe and extending substantially the entire length thereof, supported on said shoulder, and having an outside diameter less than the inside diameter of the threaded hole in the wall of said water heater.

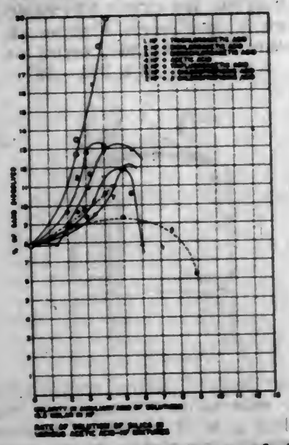
2,652,259
SUPPORTING MEANS USED IN CONNECTION WITH ELECTROPLATING RACKS
Max Stefan Schneider, Chicago, Ill.
Application February 1, 1951, Serial No. 208,879
5 Claims. (Cl. 204—297)



1. In an electroplating rack the improvement which comprises an electrically conducting busbar, an electrically conducting sleeve and a hook both in electrical contact therewith, and a freely removable resilient wire article support ex-

tending with one free end into said sleeve and resiliently pressing against said hook, its other free end being bent to engage an article which is to be plated.

2,652,360
ACIDIZING SILICEOUS EARTH FORMATIONS
Donald C. Bond, Crystal Lake, and Roy H. Lorenz, Elmhurst, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
Application May 10, 1951, Serial No. 225,492
26 Claims. (Cl. 252—8.55)



1. A composition for dissolving substantial portions of silica comprising hydrofluoric acid and a halogenated organic carboxylic acid, said halogenated organic carboxylic acid being present in an amount sufficient to enhance the reaction of said hydrofluoric acid with said silica.

2,652,361
GREASE COMPOSITIONS
Harold A. Woods and Loren C. Bollinger, Martinez, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware
No Drawing. Application December 29, 1951, Serial No. 264,232
12 Claims. (Cl. 252—21)

8. Gasoline-resistant grease comprising between about 5% and about 25% by weight of an inorganic colloidal gel, a water-soluble polyoxyalkylene fluid and a partial ester of a polyhydric alcohol having from 2 to 10 carbon atoms with a higher fatty acid, the proportion of polyoxyalkylene fluid varying between about 2 and about 4 parts by weight for each 5 parts by weight of said ester.

2,652,362
GREASE COMPOSITION
Harold A. Woods, Martinez, and Robert C. Jones, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application August 15, 1950, Serial No. 179,630
17 Claims. (Cl. 252—28)

5. A grease composition comprising a major amount of a lubricating oil having incorporated therein an amount sufficient to form a grease of a gelling agent and 0.01 to 5% each of an aromatic naphthyl amine and the reaction product of phosphorus pentasulfide and a dicyclic terpene.

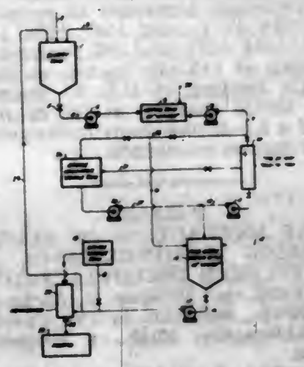
2,652,363
GREASE COMPOSITIONS
Harold A. Woods and Loren C. Bollinger, Martinez, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware
No Drawing. Application December 29, 1951, Serial No. 264,231
11 Claims. (Cl. 252—34.7)

1. A gasoline-resistant grease comprising a gelling amount of hydroxyalkylamine soap of a higher fatty acid, 20–50% by weight of a water soluble polyoxyalkylene fluid and 30–60% by weight of a partial ester of a polyhydric alcohol having less than six carbon atoms with a higher fatty acid.

2,652,364
HIGH-TEMPERATURE GREASE COMPOSITIONS
Harold A. Woods and Loren C. Bollinger, Martinez, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware
No Drawing. Application December 29, 1951, Serial No. 264,233
15 Claims. (Cl. 252—40)

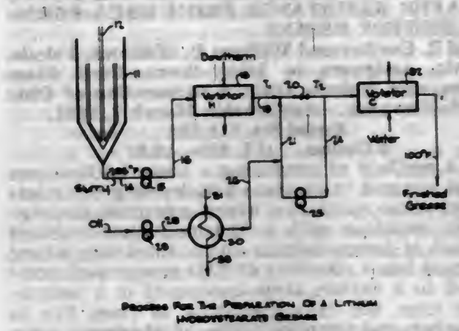
1. A lubricating grease composition comprising as the lubricating base thereof a mixture of from 55% to about 95% by weight of a synthetic high boiling liquid polyhydrocarbylsiloxane having a viscosity within the lubricating oil viscosity range and from about 5% to about 45% by weight of a mineral oil having a viscosity of between about 1250 and about 11,000 SUS at 100° F., said mineral oil containing less than about 15% by weight of aromatic hydrocarbons, the lubricating base being thickened to a grease consistency by a sodium soap of a carboxylic acid having at least 20 carbon atoms per molecule, said grease containing a minor proportion of an alkali metal salt of an organic carboxylic acid containing an aromatic ring.

2,652,365
MANUFACTURE OF GREASE COMPOSITIONS
Robert J. Moore, Oakland, and John Norton Wilson, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application June 24, 1949, Serial No. 101,028
18 Claims. (Cl. 252—41)



1. The method of making a wide temperature grease composition comprising admixing an oil having a viscosity above 500 at 100° F. SUS with a grease-forming gelling agent in an amount so that the gelling agent comprises from 10% to about 50% of the mixture, heating until a homogeneous non-crystalline mass has formed, cooling said grease concentrate to a temperature below 100° C., and admixing into said grease concentrate at this temperature a light oil having a viscosity below 300 at 100° F. SUS until the content of the gelling agent based on the total composition ranges from about 5% to about 15% by weight.

2,652,366
METHOD OF PREPARING LUBRICATING GREASE COMPOSITIONS
Robert C. Jones, Berkeley, and Robert J. Wall, Concord, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application August 15, 1950, Serial No. 179,594
14 Claims. (Cl. 252—41)



1. A process for the preparation of a lubricating grease which comprises heating a mixture of a lubricating oil and a grease-forming amount of a gelling agent therefor to about solution temperature T_1, quenching the heated mixture in a period of time less than about one minute to a lower temperature T_2 between about 25° F. and 55° F. lower than said solution temperature T_1 substantially all of the quenching being conducted before any substantial shearing of the mixture, and thereafter shearing said mixture at temperature T_2, to form a grease, the amount of shearing performed upon said grease being at least 4,000 ft. lbs. per pound of finished grease.

2,652,367
LUBRICATING COMPOSITION
David E. Adelson, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application August 5, 1950, Serial No. 177,957
13 Claims. (Cl. 252—46.7)

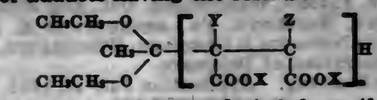
1. A lubricant comprising a major amount of mineral oil and a minor amount, sufficient to stabilize said lubricant against deterioration, of a reaction product obtained by reacting an organic carbonyl compound selected from the group consisting of ketones and aldehydes with an alkylene polyamine in the mole ratio of 2 to 6:1 to 3, respectively, and at a temperature of from 50 to 250° C. until water formation ceases and treating the resulting reaction product with an inorganic carbon-free sulfur compound selected from the group consisting of phosphorus sulfide, sulfur halide, and sulfur in the mole ratio of from 1:1 to 1:8, respectively, at a temperature ranging from below zero degree to about 175° C. and for a period of from 3 to 24 hours.

2,652,368
LUBRICATING OIL COMPOSITION
Donald S. Melstrom and Forrest J. Watson, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application June 21, 1949, Serial No. 100,544
11 Claims. (Cl. 252—48.2)

1. A lubricant comprising a hydrocarbon lubricating oil base and in admixture therewith a minor amount sufficient to improve the viscosity index of the oil of a copolymer of cracked wax olefins and sulfur dioxide having a molecular weight between about 5000 and 100,000.

2,652,369
LIQUID ADDITION PRODUCT OF AN ACETAL AND DIALKYL ESTERS OF AN ALPHA-BETA UNSATURATED ALIPHATIC DICARBOXYLIC ACID AS AN ANTIFOAMING AGENT FOR HYDROCARBON OILS
Joseph E. Fields, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application November 27, 1950, Serial No. 197,237
2 Claims. (Cl. 252—56)

1. A lubricant composition containing a hydrocarbon oil and up to 1.0 per cent by weight based on the weight of the composition of a liquid mixture of adducts having the formula



in which Y and Z are selected from the class consisting of hydrogen and the methyl radical and X is an alkyl radical of from 1 to 8 carbon atoms and n is an integer of from 2 to 20.

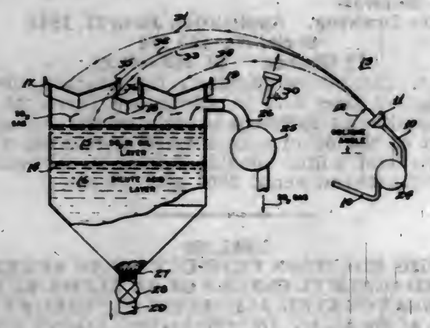
2,652,370
PROCESS FOR BREAKING SOAP-THICKENED PETROLEUM GELS
Thomas G. Wisherd, Tulsa, Okla., assignor, by mesne assignments, to Sinclair Oil and Gas Company, Tulsa, Okla., a corporation of Maine
No Drawing. Application April 20, 1951, Serial No. 222,165
6 Claims. (Cl. 252—326)

1. A process for breaking soap thickened petroleum gels, characterized by subjecting the gel to the action of an agent produced by the sulfonation and neutralization of the bottoms produced in the manufacture of dodecylbenzene, which bottoms consist essentially of di-dodecylbenzene along with other polyalkylated benzene molecules.

2,652,371
PROCESS OF FORMING SPHEROIDAL CATALYST PARTICLES
John L. Gring, Homewood, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application December 29, 1949, Serial No. 134,675
2 Claims. (Cl. 252—448)

1. The method of forming and size classifying small, substantially spherical, solid particles which comprises discharging a body of aqueous sodium silicate solution as a stream of droplets at an oblique angle, segregating the discharged liquid droplets into at least two fractions according to the difference of their trajectories, collecting one of said fractions while still liquid,

recycling said fraction to said body of aqueous sodium silicate solution, solidifying another



fraction of said droplets by contacting with a fluid acidic medium, and collecting the solidified fraction.

2,652,372

CATALYTIC HYDROGENATION OF CARBON MONOXIDE TO ORIENTABLE, ESSENTIALLY HYDROCARBON POLYMERS

Mark W. Farlow, Wilmington, Del., and Elbert C. Herrick, Boothwyn, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 10, 1951, Serial No. 236,686
12 Claims. (Cl. 260—2)

1. An essentially hydrocarbon polymer orientable by cold-drawing which is the reaction product of carbon monoxide and hydrogen, said hydrocarbon polymer melting above 130° C., having an inherent viscosity of at least 1.1, measured at 0.1% concentration in tetrahydronaphthalene at 125° C., and being capable of forming tough films having a density of at least 0.97, based on the annealed film and having a stiffness modulus greater than 150,000 lb./sq. in., and a microtensile breaking strength of at least 100,000 lb./sq. in., based on the relaxed, drawn dimension of a film of said polymer.

2,652,373

COMPOSITION OF MATTER WITH PLASTIC BONDING AND METHOD OF MAKING FROM CRESOL-FORMALDEHYDE, COMMINUTED WOOD, AND SODIUM SILICATE

Souren Z. Avedikian, Larchmont, N. Y.

No Drawing. Application April 29, 1950, Serial No. 159,148
3 Claims. (Cl. 260—17.2)

1. The method of making a molded composition of matter from waste wood, which method comprises adding to said waste wood, with the latter in comminuted condition, an aldehyde dissolved in a mixture of meta-para-cresols of which at least 55% is meta-cresol, thoroughly mixing the waste wood, aldehyde and cresol mixture, then adding to the mixture a water-soluble alkali metal silicate catalyst, then with the aldehyde and cresol mixture remaining in an unreacted condition, placing the mixed materials in a mold having a temperature of at least 120° C., and reacting the materials under heat and under a pressure of at least 150 pounds per square inch until they produce a resit.

2,652,374

WATER RESISTANT PAPER COATINGS AND METHOD OF MAKING SAME FROM UREA-FORMALDEHYDE, AMMONIUM METAPHOSPHATE, AMYLACEOUS MATERIAL, AND CLAY

Ralph N. Thompson, Mount Lebanon Township, Allegheny County, Pa., assignor to Calgon, Incorporated, a corporation of Pennsylvania

No Drawing. Application January 31, 1951, Serial No. 208,240
7 Claims. (Cl. 260—17.3)

1. A water-resistant paper coating color in the form of an aqueous slurry, the non-aqueous portion of which comprises a clay, an amylaceous material, a ureaformaldehyde resin and ammonium metaphosphate.

2,652,375

PRODUCTION OF ARTICLES OF IMPROVED WATER RESISTANCE FROM UREA-FORMALDEHYDE RESINS

David E. Cordier and William D. Williams, Toledo, Ohio, assignors to Libby-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

No Drawing. Application March 8, 1951, Serial No. 214,634
4 Claims. (Cl. 260—17.3)

1. A method of producing a material that can be hot pressed to produce articles of greatly improved water resistance, which comprises impregnating cellulose with a thermosetting reaction product of formaldehyde and a substance whose molecule has a plurality of NH_2 groups each connected to a carbon atom contained in a heterocyclic ring, the ring consisting of from five to six carbon and nitrogen atoms of which not more than three are nitrogen atoms, the carbon atom being connected by a double bond to an intracyclic nitrogen atom, converting the reaction product to its infusible state, the amount of the reaction product being such that 2.5 to 40 per cent of the treated cellulose consists of the infusible reaction product, and then thoroughly impregnating the cellulose with an aqueous solution of a thermosetting urea-formaldehyde reaction product, and drying.

2,652,376

EPOXIDE RESINS HEATED WITH VEGETABLE OILS IN THE PRESENCE OF STEAM

Jacobus Rinse, Bernardsville, N. J.

No Drawing. Application May 4, 1951, Serial No. 224,660
11 Claims. (Cl. 260—18)

1. The process for producing resinous oil products which comprises, reacting a fatty acid ester drying oil with an epoxy resin containing free epoxy groups in the presence of steam at a temperature of at least 150° C.

2,652,377

PRODUCTION OF SOLUTIONS OF FORMALDEHYDE-UREA REACTION PRODUCTS

Mearl A. Kise, Portsmouth, Va., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application June 12, 1951, Serial No. 231,250
4 Claims. (Cl. 260—29.4)

1. The process for the production of a stable, aqueous solution of formaldehyde-urea reaction products which comprises incorporating with an aqueous formaldehyde solution containing from 30% to 50% by weight formaldehyde, at a temperature no higher than 60° C., urea in amount such that the resulting mixture contains a mol ratio of 4.4 to 7.3 mols formaldehyde for every 1 mol urea, adjusting the pH of the reaction mixture thus prepared to within the range pH 8.8 to 9.5 and thereafter heating said reaction mixture at temperatures in the range 30° C. to 60° C. for at least 15 minutes, thereafter evaporating water from said mixture by simple distillation at temperatures in the range of about 45° to 60° C. under reduced pressure below atmospheric at which water is vaporized from the mixture until the liquid residue of the evaporation contains 60% to 90% by weight total solids, the periods of time of initially heating the reaction mixture and thereafter of evaporating water therefrom being so correlated with the temperature at which the reaction mixture is initially heated that when the period of evaporation at 45° to 60° C. is substantially less than one hour, the reaction mixture is initially heated for a period of at least 15 minutes at about 50° to 60° C. and for progressively longer periods at lower temperatures which increase to at least about 30 minutes at temperatures of 30° to about 35° C., when said reaction mixture contains a concentration of formaldehyde, urea and water such that the formaldehyde-water ratio is greater than 0.67:1, further limiting the time of heating it at temperatures in the range 30° to 60° C., including the time it is at said temperatures while evaporating water therefrom, to no more than about 14 hours, and during said evaporation of water limiting the loss of formaldehyde from the liquid undergoing distillation by rapidly distilling said liquid to form a residue containing 4.0 to 6.5 mols formaldehyde for every 1 mol urea.

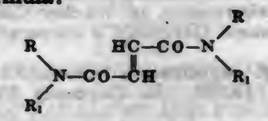
2,652,378

MIXTURES COMPRISING ACRYLONITRILE POLYMERS AND VINYL ACETATE-FUMARIC AMIDE INTERPOLYMERS

John R. Caldwell, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application May 3, 1951, Serial No. 224,447
16 Claims. (Cl. 260—30.4)

1. A resinous composition consisting of a mixture of from 70 to 92 parts by weight of a polymer containing at least 70 per cent by weight of acrylonitrile, and from 30 to 8 parts by weight of an interpolymer consisting of from 10 to 85 per cent by weight of vinyl acetate and from 90 to 15 per cent by weight of a fumaric amide having the general formula:



wherein R and R_1 each represent a member selected from the group consisting of an atom of hydrogen, an alkyl group containing from 1 to 6 carbon atoms, a hydroxyalkyl group containing from 1 to 6 carbon atoms and a phenyl group and wherein the R and R_1 on each amide nitrogen contain together not more than a total of 6 carbon atoms.

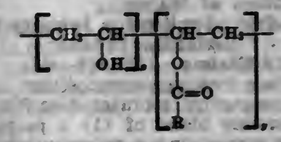
2,652,379

SOIL ADDITIVE

Ross M. Hedrick and David T. Mowry, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application May 24, 1951, Serial No. 228,136
7 Claims. (Cl. 260—41)

1. The method of improving the tilth of soils of the group consisting of clay-containing soils, silt-containing soils, and soils containing both clay and silt, which comprises dispersing in the soil a small amount, not to exceed 2% by weight, of a substantially linear water-soluble olefinic polymer represented by the structural formula



wherein R is a radical of the group consisting of hydrogen and alkyl radicals having up to 3 carbon atoms, and x and y are numbers which represent the proportions of alcohol and ester units, respectively, present in the polymer.

2,652,380

SOLUBLE CALCIUM SALT OF A COPOLYMER OF VINYL ACETATE AND A MONO-ESTER OF MALEIC ACID

Ross M. Hedrick and David T. Mowry, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application January 2, 1952, Serial No. 264,637
6 Claims. (Cl. 260—41)

1. A composition of matter which comprises a calcium salt of a copolymer of one to two moles of vinyl acetate and one mole of a maleic anhydride which has been esterified with 0.2 to 0.6 moles of an alcohol of the group consisting of ethanol, methanol n-propanol and isopropanol.

2,652,381

POLYMERIC COMPOSITIONS

Costas H. Basdekis, Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application August 23, 1952, Serial No. 306,063
16 Claims. (Cl. 260—41)

1. A pulverulent substantialy dry mixture of a calcium salt of a polymer of acrylic acid and a water-soluble sodium compound, which will precipitate a water-insoluble calcium salt in the presence of a water-soluble calcium compound.

2,652,382

POLYESTER RESIN COMPOSITIONS AND PROCESS OF PREPARING SAME

John F. Davis, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application January 5, 1950, Serial No. 137,039
8 Claims. (Cl. 260—44)

1. A surface coating composition, capable of producing, on curing, a crater-free film, comprising a compatible blend of (1) a polyester resin composition comprising a polymerizable mixture of (*a*) a polymerizably reactive unsaturated alkyd resin, (*b*) a compatible polymerizably reactive material having at least one $CH_2{=}C<$ group and (*c*) a catalyst for accelerating the copolymerization of *a* and *b*, and (2) 0.01%–5% by weight of a butylated phenol-formaldehyde resin wherein the phenol is selected from the group consisting of p,p'-isopropylidene diphenol, p-tertiary butyl phenol, p-secondary butyl phenol, p-tertiary amyl phenol, and o-tertiary amyl phenol and wherein said alkyd resin contains a plurality of polymerizably reactive alpha, beta enal groups.

2,652,383

POLYESTER RESIN COMPOSITIONS AND PROCESS OF PREPARING SAME

John F. Davis, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application January 5, 1950, Serial No. 137,040
8 Claims. (Cl. 260—44)

6. A surface coating composition capable of producing, on curing, a crater-free film comprising a compatible blend of (1) a polyester resin composition comprising a polymerizable mixture of (*a*) a polymerizably reactive unsaturated alkyd resin, (*b*) a compatible polymerizably reactive material having at least one $CH_2{=}C<$ group and (*c*) a catalyst for accelerating the copolymerization of (*a*) and (*b*) and (2) 0.01%–5% by weight of a phenol-formaldehyde resin, based on the total weight of said polyester resin, wherein the phenol is selected from the group consisting of p-tertiary butyl phenol, p-secondary butyl phenol and o-tertiary amyl phenol and wherein said alkyd resin contains a plurality of polymerizably reactive alpha, beta enal groups.

2,652,384

COMPOSITION OF A PREMILLED BUTADIENE - ACRYLONITRILE COPOLYMER AND A NONRUBBERY THERMOPLASTIC SYNTHETIC RESIN

Andrew F. Sayko and John R. Briggs, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application April 12, 1949, Serial No. 87,138
11 Claims. (Cl. 260—45.5)

1. A composite thermoplastic homogeneous composition consisting of a mixture of a normally rubbery copolymer of butadiene-1,3, and acrylonitrile which has been separately premilled at 330° F., for 10 to 30 minutes and a hard normally thermoplastic resin chosen from the class consisting of polystyrene, polyvinyl chloride, a copolymer of styrene and isobutylene, and a copolymer of styrene and acrylonitrile, said thermoplastic resin comprising from 25 to 90% by weight and said rubber copolymer correspondingly comprising from 75 to 10% of the rubber-resin mixture.

2,652,385

SILOXANE RESINS

Melvin J. Hunter, Midland, Mich., and Earle J. Smith, Hasbrouck Heights, N. J., assignors to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application January 6, 1947, Serial No. 720,470
2 Claims. (Cl. 260—46.5)

1. A resinous polysiloxane essentially all the siloxane structural units of which are as follows:

$$CH_3SiO_{1.5}$$
$$C_6H_5SiO_{1.5}$$
$$(CH_3)_2SiO$$

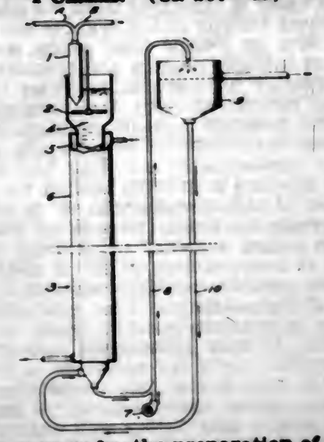
of which structural units between 10 and 80 mol per cent are monomethyl siloxane units, between 10 and 65 mol per cent are phenyl siloxane units, and between 2.5 and 45 mol per cent are dimethyl siloxane units, in which siloxane the silicon atoms are linked together by an alternating lattice of oxygen and silicon atoms.

2,652,386

CONTINUOUS PREPARATION OF BEADED PHENOLSULFONIC ACID - FORMALDEHYDE CONDENSATION PRODUCT

Harold Wallman, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application February 17, 1949, Serial No. 76,943
4 Claims. (Cl. 260—49)



3. In a process for the preparation of an insoluble cured phenol sulfonic acid-formaldehyde resin in bead form the steps which comprise continuously mixing together phenol sulfonic acid and aqueous formaldehyde, immediately dispersing the resulting mixture in an inert organic non-solvent liquid containing a surface active agent, the density of said liquid being substantially equivalent to that of said mixture and less than that of the resin beads to be produced, continuously passing the so-obtained droplets of said mixture through said liquid, contact between said droplets and said liquid being maintained at least until said mixture has gelled and the droplets are consequently solidified, and curing the gelled droplets.

2,652,387

PROCESS FOR PRODUCING CONDENSATION PRODUCTS OF POLYVINYL ALCOHOL AND ALDEHYDES

Wolfgang Gruber, Joseph Heckmaier, and Hugo Zoebelein, Burghausen, Germany, assignors, by mesne assignments, to Wacker-Chemie G. m. b. H., Munich, Germany, a corporation of Germany

No Drawing. Application February 14, 1951, Serial No. 210,988. In Germany February 17, 1950
7 Claims. (Cl. 260—73)

1. Process for producing condensation products from polyvinyl alcohol and saturated aldehydes with at least two carbon atoms by condensing the polyvinyl alcohol in aqueous solution with the saturated aldehyde in the presence of a catalyst which comprises using perchloric acid as catalyst, whereby the reaction product is precipitated.

2,652,388

OXYPROPYLATED POLYAMIDE-POLYCARBOXYLIC ACID REACTION PRODUCT

Melvin De Groote, University City, Mo., assignor to Petrolite Corporation, a corporation of Delaware

No Drawing. Application May 14, 1951, Serial No. 226,319
11 Claims. (Cl. 260—75)

1. Acidic fractional esters; said acidic fractional esters being obtained by reaction between (A) a polycarboxy acid, and (B) high molal oxypropylation derivatives of liquid polyamide resins; with the proviso that

(*a*) The initial polyamide resin be obtained from an alkylene diamine having not more than 8 carbon atoms and fatty acid polymers obtained by the polymerization of unsaturated higher fatty acids to a stage not beyond trimerization;
(*b*) The molecular weight range of the initial liquid polyamide resin be within 2,500 to 15,000;
(*c*) The molecular weight of the oxypropylation end-product be within the range of 5,000 to 65,000 on an average statistical basis;
(*d*) The oxypropylation end-product be xylene-soluble;
(*e*) The xylene solubility characteristics of the oxypropylation end-product be substantially the result of the oxypropylation step;
(*f*) The initial liquid polyamide resin represent not more than 50% by weight of the oxypropylation end-product on a statistical basis;

and that the preceding provisos be based on complete reaction involving the propylene oxide and the initial liquid resin reactant and with the proviso that the ratio of (A) to (B) to one mole of the polycarboxy acid for each available hydroxyl radical.

2,652,389

POLYAMIDE CONTAINING BETA CARBONAMIDO - ALPHA - AMINOPROPIONIC ACID UNITS

Maynard S. Raasch and Charles W. Tullock, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 18, 1950, Serial No. 180,319
24 Claims. (Cl. 260—77.5)

4. An optically inactive polyamide of degree of polymerization of at least 10, the recurring units of which are alpha-monoaminomonocarboxylic acid units from 1 to 100% of which are DL - beta - carbonamido - alpha-aminopropionic acid units wherein the valences of the extralinear carbonamido nitrogen not bonded to the carbonyl group are bonded to radicals of the class consisting of hydrogen, hydrocarbon radicals and radicals which, together with said amido nitrogen form a heterocyclic ring.

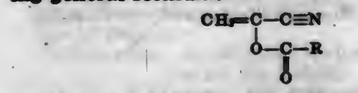
2,652,390

POLYMERIZATION OF α-ACYLOXYACRYLONITRILES IN AQUEOUS SYSTEMS USING A REDOX CATALYST AND POLYMERS OBTAINED THEREFROM

Hugh J. Hagemeyer, Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application August 18, 1950, Serial No. 180,297
12 Claims. (Cl. 260—80.5)

1. A process for preparing polymers of α-acyloxyacrylonitriles in the substantial absence of hydrolysis thereof comprising polymerizing an α-acyloxyacrylonitrile represented by the following general formula:



wherein R represents an alkyl group of the formular C_nH_{2n+1} wherein *n* represents a positive integer of from 1 to 3, in an aqueous dispersion in the presence of a persulfate polymerization catalyst and a water-soluble, oxidizable compound of sulfur.

2,652,391

COPOLYMERS OF ALPHA-METHYLSTYRENE AND ALPHA-METHACRYLONITRILE

Roger M. Schulken, Jr., and Ralph E. Bey, Jr., Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application August 22, 1951, Serial No. 243,188
12 Claims. (Cl. 260—85.5)

1. A resinous copolymer consisting of from 0.4 to 0.6 mole fraction of alpha-methylstyrene and from 0.6 to 0.4 mole fraction of alpha-methacrylonitrile, and having a molecular weight of from 90,000 to 250,000 as determined by the inherent viscosity of said copolymer in N,N-dimethyl formamide.

2,652,392

SUSPENSION POLYMERIZATION OF UNSATURATED ORGANIC COMPOUNDS

Walter Peter Hohenstein, Kew Gardens, N. Y., and Robert Nobbs Haward and Joyce Elly, London, England; said Haward and said Elly assignors to said Hohenstein

No Drawing. Application April 28, 1951, Serial No. 223,654. In Great Britain May 17, 1950
28 Claims. (Cl. 260—86.7)

1. In the polymerisation in aqueous suspension of unsaturated organic compounds containing a $CH_2{:}C<$ group in the molecule, in the presence of a monomer soluble polymerisation catalyst and of a calcium phosphate as suspension stabiliser, the step which comprises adding to the aqueous suspension up to 0.01% by weight of the system of a water-soluble persulphate, the total quantity of the water soluble persulphate in the suspension not exceeding .01%.

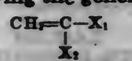
2,652,393

POLYMERIZATION WITH ALKYL PHOSPHITE CATALYSTS

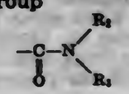
Joseph Benjamin Dickey and Harry Wesley Coover, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application May 21, 1949, Serial No. 94,744
7 Claims. (Cl. 260—88.7)

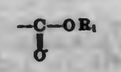
1. A process for preparing a resinous polymer of a monomeric unsaturated compound selected from the group having the general formula:



wherein X_2 represents a member selected from the group consisting of hydrogen, the group —CHF_2 and the group —CF_3, and X_1 represents a member selected from the group consisting of the group —CN, the group



and the group



wherein R_1 represents an alkyl group containing from 1 to 4 carbon atoms, and R_2 and R_3 each

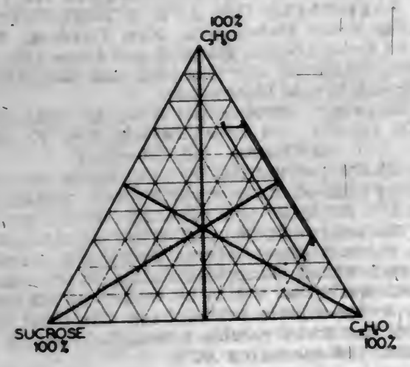
represent a member selected from the group consisting of an atom of hydrogen and an alkyl group containing from 1 to 4 carbon atoms, which consists of intimately contacting, at a temperature of from −80° to 200° C., the said monomeric unsaturated compound with from 0.01 to 25 per cent, based on the weight of the monomeric unsaturated compound, of an organic phosphite selected from the group consisting of a trialkyl phosphite wherein each alkyl group contains from 1 to 4 carbon atoms, a dialkyl hydrogen phosphite wherein each alkyl group contains from 1 to 4 carbon atoms and a dialkyl alkali-metal phosphite wherein each alkyl group contains from 1 to 4 carbon atoms.

2,652,394

CERTAIN OXYALKYLATED DERIVATIVES OF SUCROSE

Melvin De Groote, University City, Mo., assignor to Petrolite Corporation, a corporation of Delaware

Application February 27, 1950, Serial No. 146,424
2 Claims. (Cl. 260—209)



1. Hydrophile synthetic products, said hydrophile synthetic products being xylene soluble; said hyprophile synthetic products being oxyalkylation products of sucrose with at least one alkylene oxide of the class consisting of ethylene oxide, propylene oxide, butylene oxide, glycide and methyl glycide, at least part of the alkylene oxide being selected from the class consisting of propylene oxide and butylene oxide, the proportion of sucrose radical in such product being less than 10% (weight basis) of the total on the assumption of completeness of reaction and on the average statistical basis.

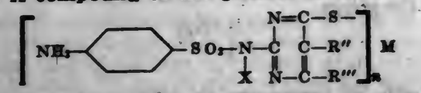
2,652,395

N-(C MERCAPTO-PYRIMIDYL)-P-AMINOBENZENESULFONAMIDES

William A. Lott, Maplewood, and Frank H. Bergeim, Highland Park, N. J., assignors to Mathieson Chemical Corporation, New York, N. Y., a corporation of Virginia

No Drawing. Application June 21, 1951, Serial No. 232,882
5 Claims. (Cl. 260—239.75)

1. A compound of the general formula:



wherein X is a member of the class consisting of hydrogen and alkali-metal, M is a heavy metal of the class consisting of mercury, silver, gold, copper, cobalt, nickel, iron, arsenic, antimony, cadmium and bismuth, R'' and R''' are each members of the class consisting of hydrogen and lower alkyl, and *n* is the valence of the metal M.

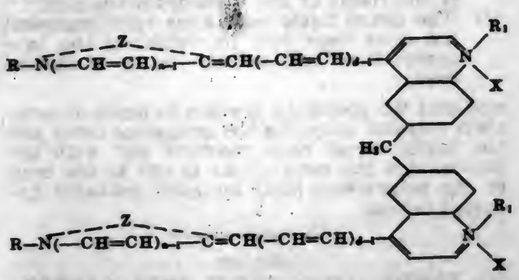
2,652,396

BIS-CYANINE DYES AND METHOD OF PREPARATION

Grafton H. Keyes and Leslie G. S. Brooker, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application March 6, 1951, Serial No. 214,194
10 Claims. (Cl. 260—240.1)

1. The bis-cyanine dyes of the following general formula:



wherein R and R_1 each represents an alkyl group, X represents an acid anion, *n* and *d* each represents a positive integer from 1 to 2, and Z represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from the group consisting of those of the thiazole series, those of the benzothiazole series, those of the naphthothiazole series, those of the thinaphtheno-7',6', 4,5-thiazole series, those of the oxazole series, those of the benzoxazole series, those of the naphthoxazole series, those of the selenazole series, those of the benzoselenazole series, those of the naphthoselenazole series, those of the thiazoline series, those of the 2-quinoline series, those of the 4-quinoline series, those of the 1-isoquinoline series, those of the 3-isoquinoline series, those of the 3,3-dialkylindolenine series, those of the 2-pyridine series, and those of the 4-pyridine series.

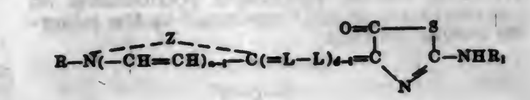
2,652,397

SENSITIZING DYES CONTAINING A 2-ACYLAMINO-5(4)-THIAZOLONE NUCLEUS

Per Albert, Oslo, Norway, and Edward B. Knott, Harrow, England, assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application December 29, 1950, Serial No. 203,525
12 Claims. (Cl. 260—240.4)

1. A merocyanine dye selected from those represented by the following general formula:



wherein R represents an alkyl group containing from 1 to 8 carbon atoms, R_1 represents the acyl group of a carboxylic acid, L represents a methine group, *n* represents a positive integer from 1 to 2, *d* represents a positive integer from 1 to 3, and Z represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from the group consisting of those of the thiazole series, those of the benzothiazole series, those of the naphthothiazole series, those of the thionaphtheno-7',8',4,5-thiazole series, those of the oxazole series, those of the benzoxazole series, those of the naphthoxazole series, those of the selenazole series, those of the benzoselenazole series, those of the naphthoselenazole series, those of the thiazoline series, those of the 2-quinoline series, those of the 4-quinoline series, those of the 1-isoquinoline series, those of the 3,3-dialkylindolenine series, and those of the pryidine series.

2,652,398

N-SUBSTITUTED-2-AMINO(METHYL) QUINOLINES

Irving Allan Kaye, Brooklyn, N. Y., assignor to Endo Products, Inc., Richmond Hill, N. Y., a corporation of New York

No Drawing. Application November 17, 1949, Serial No. 128,013
2 Claims. (Cl. 260—288)

1. Compounds of the class consisting of the free bases and their acid addition salts wherein the free bases have the general formula:

(Z—N(R')(R''))

wherein Z designates the 2-lepidyl radical; R' designates a member of the group consisting of hydrogen, lower alkyl, lower alkyl amino lower alkyl, and morpholino lower alkyl; R'' designates thenyl.

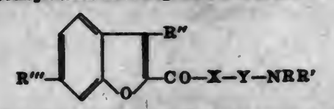
2,652,399

TERTIARY-AMINOALKYL DERIVATIVES OF COUMARILIC ACIDS AND THEIR PREPARATION

Raymond O. Clinton, Rensselaer, N. Y., assignor to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application October 24, 1950, Serial No. 191,923
22 Claims. (Cl. 260—294.3)

1. A compound having the formula



where X is a member of the group consisting of O, S and NH, Y is a lower alkylene radical, NRR' is a member of the group consisting of lower dialkylamino, 1-piperidyl, (lower alkylated)-1-piperidyl, 1-pyrrolidyl, (lower alkylated)-1-pyrrolidyl and 4-morpholinyl, R'' is a member of the group consisting of hydrogen and lower alkyl radicals and R''' is a member of the group consisting of hydrogen, lower alkyl radicals and lower alkoxy radicals.

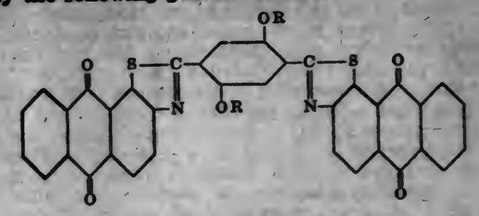
2,652,400

2,2'-(2,5-LOWER DIALKOXY-p-PHENYLENE)-DI-(ANTHRA[2,1]THIAZOLE-6,11-DIONES)

Nicholas W. Solonen and David L. Randall, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 7, 1951, Serial No. 260,583
6 Claims. (Cl. 260—303)

1. 2,2'-(2,5-lower dialkoxy-p-phenylene)-di-(anthra[2,1]thiazole-6,11-diones) characterized by the following general formula:



wherein R represents a lower alkyl group.

2,652,401

BENZOTHIAZOLE DERIVATIVES AND METHOD OF PRODUCTION

Norbert Steiger, Nutley, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application April 16, 1952, Serial No. 282,679
12 Claims. (Cl. 260—306)

7. A compound selected from the group consisting of 4-(β-di-lower alkylaminoethoxy)-2-(β-di-lower alkylaminoethylmercapto) benzothiazoles which contain in the 6-position a radical selected from the group consisting of anilino, lower alkylanilino, and haloanilino radicals, and the acid addition salts of the aforesaid compounds.

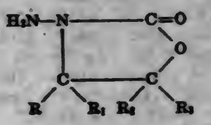
2,652,402

SERIES OF NEW 3-AMINO-2-OXAZOLIDONES AND THE PREPARATION THEREOF

Gabriel Gever, Oxford, N. Y., assignor to Eaton Laboratories, Inc., Norwich, N. Y., a corporation of New York

No Drawing. Application February 28, 1952, Serial No. 274,067
7 Claims. (Cl. 260—307)

1. A new chemical compound represented by the formula:



wherein
R is a member of the group consisting of hydrogen, lower alkyl and hydroxy (lower) alkyl
R_1 is a member of the group consisting of hydrogen, lower alkyl and hydroxy (lower) alkyl
R_2 is a member of the group consisting of hydrogen, lower alkyl and hydroxy (lower) alkyl, and
R_3 is a member of the group consisting of hydrogen, lower alkyl and hydroxy (lower) alkyl.

2,652,403

PROCESS OF PREPARING m-NITRO AND m-AMINOBENZYL DERIVATIVES OF α-MONO- AND α,α'-DIKETO-PYRROLIDINES AND -PIPERIDINES AND TETRAHYDROPHTHALIMIDES

Saul R. Buc, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 30, 1949, Serial No. 136,106
5 Claims. (Cl. 260—326)

1. The process which comprises heating, in the presence of sulfuric acid, an aliphatic aldehyde

selected from the class consisting of formaldehyde and paraformaldehyde with a nitrobenzene compound selected from the class consisting of nitrobenzene, mono- and di-halogenated nitrobenzenes, lower alkyl substituted nitrobenzenes, and lower alkoxy substituted nitrobenzenes having at least one unoccupied position meta to the nitro group, and with a member selected from the class consisting of α-monoketopyrrolidine, α,α'-diketopyrrolidine, α-methyl-α'-monoketopyrrolidine, α-monoketopiperidine, α,α'-diketopiperidine, and tetrahydrophthalimide, said heating is first conducted at a temperature up to 45° C. for a period of time ranging from 3 to 6 hours and thereafter to 65° C. for a period of time ranging from 10 to 15 hours.

2,652,404

PREPARATION OF 2-THENYLFORMALDIMINES

Howard D. Hartough, Pitman, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Original application July 1, 1948, Serial No. 36,449. Divided and this application December 28, 1950, Serial No. 203,231

4 Claims. (Cl. 260—329)

1. A method for preparing 2-thenylformaldimines which comprises establishing a solution of a 2-thenylaminomethylsulfonic acid having a composition corresponding to the formula, $RCH_2NHCH_2SO_3H$, adding an amount of alkali hydroxide to said solution in excess of the stoichiometric equivalent of said 2-thenylaminomethylsulfonic acid, and recovering a 2-thenylformaldimine having a composition corresponding to the formula, $RCH_2N{=}CH_2$, wherein R in both formulae is an identical radical selected from the group consisting of thienyl radical, mono-lower-alkyl thienyl radical, and monohalo thienyl radical.

2,652,405

ALKYLATION OF THIANAPHTHENE

Robert E. Conary and Rush F. McCleary, Beacon, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application June 5, 1948, Serial No. 31,387

7 Claims. (Cl. 260—330.5)

1. A process for producing aliphatic-substituted thianaphthene compounds which comprises reacting a thianaphthene compound containing at least one reactive hydrogen atom on the thiophene nucleus with an alkylating agent containing at least 3 carbon atoms under alkylating conditions in the presence of a catalyst containing mainly sulfuric acid and in which catalyst the weight per cent concentration of sulfuric acid is not greater than approximately 88 per cent.

2,652,406

METHOD FOR THE PREPARATION OF LACTONES

Laurent Lucien Crabalona, Grasse, France, assignor to Societe Anonyme des Etablissements Roure-Bertrand Fils & Justin Dupont, Paris, France, a corporation of the French Republic

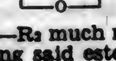
No Drawing. Application August 13, 1948, Serial No. 44,227. In France September 20, 1947

3 Claims. (Cl. 260—343)

1. A method for producing substantially pure monocyclic lactones including at least 12 carbon atoms in the lactone ring, comprising providing at raised temperature and under reduced pressure, in the presence of a catalyst, the cyclization of a diester

$$A{-}O(CH_2)_n{-}COOR_2$$

wherein n is an integer from 10 to 15 inclusive, R_2 an alkyl radical selected from the group including methyl, ethyl, propyl and butyl, and A the radical of an acid adapted to produce an ester of high volatility with the said alkyl radical, said reaction producing a lactone



and an ester $A{-}O{-}R_2$ much more voltatile than the lactone, allowing said ester to evolve immediately in gaseous form and recovering the pure liquid lactone.

2,652,407

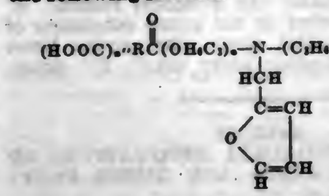
FRACTIONAL ESTERS OF POLYOXYALKYLATED FURFURYLAMINE

Melvin De Groote, University City, Mo., assignor to Petrolite Corporation, a corporation of Delaware

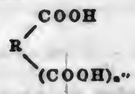
No Drawing. Application May 14, 1951, Serial No. 226,321

7 Claims. (Cl. 260—347.4)

1. Hydrophile synthetic products, said hydrophile synthetic products being characterized by the following formula



in which n and n' are whole numbers, with the proviso that n plus n' equals a sum varying from 15 to 80; n'' is a whole number not over 2 and R is the radical of a polycarboxy acid selected from the group consisting of acyclic and isocyclic polycarboxy acids having not more than 8 carbon atoms and composed of carbon, hydrogen and oxygen of the formula:



in which n'' has its previous significance.

2,652,408

PREPARATION OF ANTHRAQUINONE COMPOUNDS

Hans Z. Lecher, Plainfield, and Karl C. Whitehouse, Somerville, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application July 14, 1951, Serial No. 236,844

14 Claims. (Cl. 260—369)

1. In a process for making an anthraquinone compound by the Diels-Alder reaction of 1,4-naphthoquinone with an open chain conjugated diene followed by oxidation of the adduct, the improvement which comprises reacting the diene with a crude converter product resulting from the catalytic vapor phase oxidation of naphthalene, said converter product containing 1,4-naphthoquinone and phthalic anhydride in a ratio between 1 to 1 and 1 to 9.

2,652,409

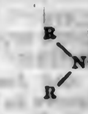
OXYALKYLATION OF THE AMIDES OF SECONDARY AMINES

Melvin De Groote, St. Louis, Mo., assignor to Petrolite Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 17, 1951, Serial No. 251,831

5 Claims. (Cl. 260—404)

1. The process of rendering water-insoluble amides water-dispersible by reaction with an alkylene oxide; said water-insoluble amide, prior to oxyalkylation, being of the following formula:



in which R is a member selected from the class consisting of alkyl and saturated alicyclic hydrocarbon radicals having at least 2 and not over 10 carbon atoms; R_1CO is the acyl radical of a monocarboxy detergent-forming acid having 8 to 20 carbon atoms; said amide being characterized by the absence of labile hydrogen atoms which are reactive towards low molal alkylene oxides; said reaction being carried out by subjecting the amide to the action of the alkylene oxide under oxyalkylating conditions of temperature and pressure, the alkylene oxide having at least 2 and not more than 4 carbon atoms selected from the class consisting of ethylene oxide, propylene oxide, butylene oxide, glycide and methylglycide, and being at least sufficient to render the water-insoluble amide water-dispersible to a degree sufficient to give a permanent solution in a mixture containing 1% to 5% of the oxyalkylated derivative mixture and 95% to 99% of warm distilled water.

2,652,410

ESTERS OF ALPHA-HYDROXY ACIDS AND THEIR ESTOLIDES

Orin D. Cunningham and Orville L. Polly, Long Beach, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Application October 12, 1948, Serial No. 54,204

12 Claims. (Cl. 260—404.5)

1. A process for the production of gelled and partially gelled derivatives which comprises heating at least one carboxylic acid selected from the class consisting of alpha-hydroxy acids containing 5 to 30 carbon atoms per molecule and estolides and dehydroxylated estolides containing 10 to 60 carbon atoms per molecule in the presence of between 1 and 2 stoichiometric equivalents of a polyfunctional organic compound having less than 10 carbon atoms per molecule and selected from the class consisting of polyhydric alcohols, poly-amines and amino-alcohols at a reaction temperature between 100° C. and 200° C. for a time sufficient to liberate water and to effect an incomplete reaction of said carboxylic acid with said polyfunctional organic compound but insufficient to cause gelation, cooling the resulting fluid reaction mixture and curing said reaction mixture at a temperature between 75° C. and 125° C., but at a temperature lower than said reaction temperature, for a time sufficient to effect gelation.

2,652,411

ALKYL ACYLOXY STEARATES

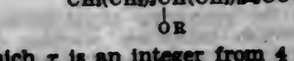
Howard M. Teeter and John C. Cowan, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application July 18, 1952, Serial No. 299,770

7 Claims. (Cl. 260—405)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. Alkyl acyloxy stearates of the following structural formula:



in which x is an integer from 4 to 10, R is an aliphatic acyl radical, and R' is a branched chain saturated aliphatic radical.

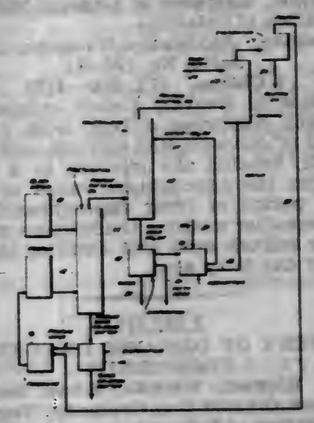
2,652,412

FRACTIONATION OF BLACK GREASE

Morris Mattikow, New York, N. Y., assignor to Benjamin Clayton, doing business under the fictitious name and style of Refining, Unincorporated, a sole proprietorship of the said Benjamin Clayton

Application May 9, 1950, Serial No. 160,978

16 Claims. (Cl. 260—412.5)



1. The process of recovering fatty acids and neutral oil from black grease, which comprises, forming a mixture of said black grease with several times its volume of a water-immiscible liquefied normally gaseous organic solvent for said black grease at an elevated temperature above the consolute temperature of said mixture and below the critical temperature of said solvent while maintaining said mixture under sufficient pressure to retain said solvent in liquid form, whereby a lighter phase containing fatty acids and neutral oil in solution in said solvent and a heavier phase containing gums and coloring matter in solution in said solvent are produced, separating said phases from each other, admixing the separated lighter phase with an aqueous solution of a volatile water-soluble neutralizing agent reacting with said fatty acids to form water-soluble soaps while said lighter phase still contains the solvent separated therewith and is under sufficient pressure to maintain its contained solvent in liquid form, whereby a solvent phase containing neutral oil in solution in said solvent and an aqueous phase containing said soaps and excess reagent in solution in water are produced, separating said solvent phase and aqueous phase from each other, evaporating

solvent from said solvent phase to recover neutral oil and evaporating neutralizing agent from said aqueous phase to recover fatty acids.

2,652,413

PROCESS FOR PREPARING ALKANOIC ACIDS

Robert W. Rosenthal, Poughkeepsie, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application November 7, 1950, Serial No. 194,567
8 Claims. (Cl. 260—413)

1. A process for preparing alpha-methyl alkanoic acids which comprises reacting olefins with carbon monoxide and water in the presence of a catalyst comprising 50 to 95 per cent nickel carbonyl, 1 to 25 per cent nickel halide and 4 to 25 per cent hydrochloric acid containing at least 20 weight per cent hydrogen chloride at a temperature of 500 to 700° F. and at a pressure of 1000 to 5000 pounds per square inch gauge.

2,652,414

PREPARATION OF SATURATED FATTY ACIDS OF IMPROVED COLOR AND COLOR STABILITY

David E. Terry and Donald T. Warner, Minneapolis, Minn., assignors to General Mills, Inc., a corporation of Delaware

No Drawing. Application November 13, 1950, Serial No. 195,461
2 Claims. (Cl. 260—419)

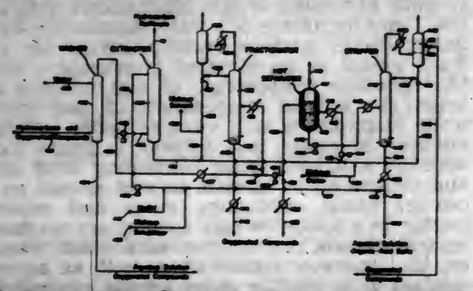
1. Process of treating higher saturated fatty acids which comprises mixing from 1% to 3% by weight of concentrated sulfuric acid with the fatty acid, heating the mixture to a temperature within the approximate range of 150–175° C. for a period of from approximately 2 to 6 hours, thereafter washing the mixture with water to remove sulfuric acid, and distilling the residue to recover the fatty acid.

2,652,415

RECOVERY OF ORGANIC OXYGENATED COMPOUNDS

Vesta F. Michael, Wichita, Kans., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

Application September 29, 1948, Serial No. 51,898
6 Claims. (Cl. 260—450)



1. In a process for separating a preferentially oil-soluble organic oxygenated compound selected from the group consisting of alcohols, aldehydes, and ketones from a solution thereof comprising predominantly hydrocarbons by contacting said hydrocarbon solution with an aqueous extractant solution containing a substantially non-surface-active salt of a preferentially oil-soluble carboxylic acid, separating an aqueous extract containing said organic oxygenated compound, and recovering said organic oxygenated compound from said aqueous extract, the improvement which comprises heating said aqueous extract containing said organic oxygenated compound to an elevated temperature above about 60° C. to effect stratification of an organic phase therefrom while maintaining said aqueous extract in the liquid phase, withdrawing the lower aqueous phase containing said organic oxygenated compound dissolved therein, and distilling said organic oxygenated compound from said aqueous phase.

2,652,416

REACTION OF LACTONES WITH TRIALKYL PHOSPHITE

Harry W. Coover, Jr., and Joseph B. Dickey, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application January 2, 1953, Serial No. 264,674
8 Claims. (Cl. 260—461)

1. A process for preparing dialkyl carboalkoxy alkane phosphonates comprising heating together a trialkyl phosphite and a lactone at about 100–250° C.

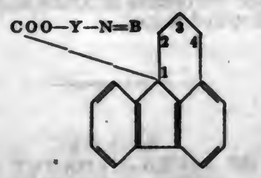
2,652,417

1,2,3,10b-TETRAHYDROFLUORANTHENE-10b-CARBOXYLIC ACID

Eliot Steinberg, North Arlington, N. J., assignor to Warner-Hudnut, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application October 6, 1951, Serial No. 250,190
6 Claims. (Cl. 260—469)

1. Compounds of the formula



in which Y is a divalent acyclic saturated hydrocarbon radical having not less than 2 nor more than 3 carbon atoms with the linkages to the oxygen and the nitrogen atoms being to different carbon atoms, and —N=B is a radical selected from the class consisting of dialkylamino radicals with a total of not more than 12 carbon atoms, pyrrolidyl, piperidyl and morpholinyl radicals.

2,652,418

ACIDIC ESTERS OF OXYALKYLATED TETRAMETHYLOLCYCLOHEXANOL

Melvin De Groote, University City, Mo., assignor to Petrolite Corporation, a corporation of Delaware

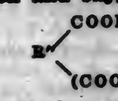
No Drawing. Continuation of applications Serial No. 104,891 and Serial No. 104,892, July 14, 1949. This application December 29, 1950, Serial No. 203,524
9 Claims. (Cl. 260—475)

1. Hydrophile synthetic products which are acidic fractional esters of the formula

$$[R'O_x(R'''O)_{n'}]_y(RO)_nCR''(COOH)_{n''}$$

in which the acidic acyl radical is that of a polycarboxy acid selected from the group consisting of acyclic and isocyclic polycarboxy acids having

not more than 8 carbon atoms and composed of carbon, hydrogen and oxygen of the formula



in which n' is a whole number not greater than 2; and in which the alcohol radical is that of the pentahydroxylated compound

$$[R'O_x(R'''O)_{n'}]_y(RO)_nH_y$$

in which R'(OH)$_5$ represents tetramethylolcyclohexanol, R''' is a radical selected from the class consisting of ethylene and butylene radicals, n'' is an integer not greater than 10, including zero, (RO) is the divalent propylene oxide radical and n is a number so selected that the molecular weight of

$$[R'O_x(R'''O)_{n'}]_y(RO)_nH_y$$

is within the range of 1500 to 6000.

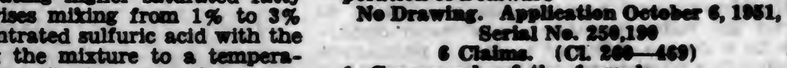
2,652,419

FRACTIONAL ESTERS OF POLYOXYALKYLATED p,p'-DIHYDROXYDIPHENYL-DIMETHYL-METHANE

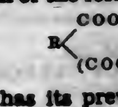
Melvin De Groote, University City, Mo., assignor to Petrolite Corporation, a corporation of Delaware

No Drawing. Application December 29, 1950, Serial No. 202,526
7 Claims. (Cl. 260—475)

1. Hydrophile synthetic products; said hydrophile synthetic products being characterized by the following formula:



in which R' is the radical of p,p'-dihydroxydiphenyl-dimethyl-methane; n and n' are integers with the proviso that n and n' equal a sum varying from 15 to 80, and n'' is a whole number not over 2, and R is the radical of a polycarboxy acid selected from the group consisting of acyclic and isocyclic polycarboxy acids having not more than 8 carbon atoms and composed of carbon, hydrogen and oxygen of the formula:



in which n'' has its previous significance.

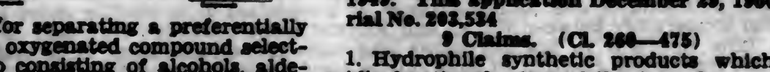
2,652,420

FRACTIONAL ESTERS OF OXYPROPYLATED 4,4'-DIHYDROXYDIPHENYL SULFONE

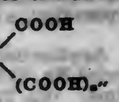
Melvin De Groote, University City, Mo., assignor to Petrolite Corporation, a corporation of Delaware

No Drawing. Application March 5, 1951, Serial No. 214,902
7 Claims. (Cl. 260—475)

1. Hydrophile synthetic products; said hydrophile synthetic products being characterized by the following formula:



in which R' is the radical of a member of the class selected from 4,4' dihydroxydiphenyl sulfone, 2,4' dihydroxydiphenyl sulfone and a mixture of the two isomers; n and n' are integers with the proviso that n and n' equal a sum varying from 15 to 80, and n'' is a whole number not over 2, and R is the radical of a polycarboxy acid selected from the group consisting of acyclic and isocyclic polycarboxy acids having not more than 8 carbon atoms and composed of carbon, hydrogen and oxygen of the formula:



and in which n'' has its previous significance.

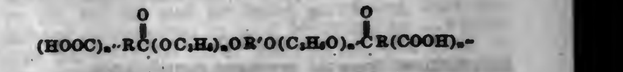
2,652,421

FRACTIONAL ESTERS OF POLYOXYALKYLATED GLYCERYL ETHERS

Melvin De Groote, University City, Mo., assignor to Petrolite Corporation, a corporation of Delaware

No Drawing. Application March 5, 1951, Serial No. 214,904
7 Claims. (Cl. 260—475)

1. Hydrophile synthetic products; said hydrophile synthetic products being characterized by the following formula



in which R' is the radical of a glycerol ether of diethylene glycol monoethyl ether; n and n' are integers with the proviso that n and n' equal a sum varying from 15 to 80, and n'' is a whole number not over 2, and R is the radical of a polycarboxy acid selected from the group consisting of acyclic and isocyclic polycarboxy acids having not more than 8 carbon atoms and composed of carbon, hydrogen and oxygen of the formula:



in which n'' has its previous significance.

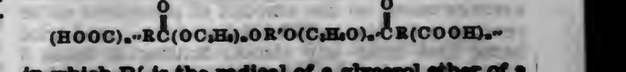
2,652,422

FRACTIONAL ESTERS OF POLYOXYALKYLATED GLYCEROL ETHERS

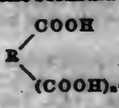
Melvin De Groote, University City, Mo., assignor to Petrolite Corporation, a corporation of Delaware

No Drawing. Application March 5, 1951, Serial No. 214,906
8 Claims. (Cl. 260—475)

1. Hydrophile synthetic products; said hydrophile synthetic products being characterized by the following formula



in which R' is the radical of a glycerol ether of a hexyl alcohol; n and n' are integers with the proviso that n and n' equal a sum varying from 15 to 80, and n'' is a whole number not over 2, and R is the radical of a polycarboxy acid selected from the group consisting of acyclic and isocyclic polycarboxy acids having not more than 8 carbon atoms and composed of carbon, hydrogen and oxygen of the formula:



in which n'' has its previous significance.

2,652,423

FRACTIONAL ESTERS OF POLYOXYALKYLATED GLYCERYL ETHERS

Melvin De Groote, University City, Mo., assignor to Petrolite Corporation, a corporation of Delaware

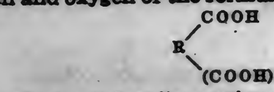
No Drawing. Application March 5, 1951, Serial No. 214,008

7 Claims. (Cl. 260—475)

1. Hydrophile synthetic products; said hydrophile synthetic products being characterized by the following formula



in which R' is the radical of a glycerol ether of cyclohexanol; n and n' are integers with the proviso that n and n' equal a sum varying from 15 to 80, and n'' is a whole number not over 2, and R is the radical of a polycarboxy acid selected from the group consisting of acyclic and isocyclic polycarboxy acids having not more than 8 carbon atoms and composed of carbon, hydrogen and oxygen of the formula:



in which n'' has its previous significance.

2,652,424

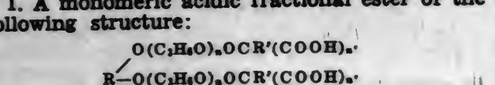
ACID FRACTIONAL ESTERS OF OXYPROPYLATED HEXANETRIOL-1,2,6

Melvin De Groote, University City, Mo., assignor to Petrolite Corporation, a corporation of Delaware

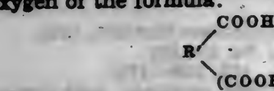
No Drawing. Application May 14, 1951, Serial No. 226,329

9 Claims. (Cl. 260—475)

1. A monomeric acidic fractional ester of the following structure:



in which R is the radical of hexanetriol-1, 2, 6, and R' is the radical of a polycarboxy acid selected from the group consisting of acyclic and isocyclic polycarboxy acids having not more than 8 carbon atoms and composed of carbon, hydrogen and oxygen of the formula:



in which n' represents the whole numbers 1 to 2, and n represents a whole number varying from 6 to 30; with the proviso that n be the statistical average based on the amount of propylene oxide reacted with the initial triol R(OH)$_3$; said triol being free from any radical having at least 8 uninterrupted carbon atoms; and with the further proviso that the statistical average molecular weight of said oxypropylated triols be within the range of 1,000 to 10,000.

2,652,425

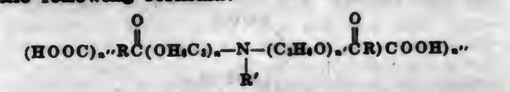
OXYPROPYLATED FRACTIONAL ESTERS OF POLYCARBOXYLIC ACIDS

Melvin De Groote, University City, Mo., assignor to Petrolite Corporation, a corporation of Delaware

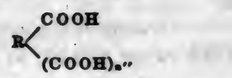
No Drawing. Application May 14, 1951, Serial No. 226,333

7 Claims. (Cl. 260—475)

1. Hydrophile synthetic products; said hydrophile synthetic products being characterized by the following formula:



in which R' is a hydrocarbon radical selected from the class consisting of cyclohexyl radicals, methylcyclohexyl radicals, and cyclohexylmethyl radicals, and n and n' are whole numbers, with the proviso that n plus n' equals a sum varying from 15 to 80; n'' is a whole number not over 2 and R is the radical of a polycarboxy acid selected from the group consisting of acyclic and isocyclic polycarboxy acids having not more than 8 carbon atoms and composed of carbon, hydrogen and oxygen of the formula:



in which n'' has its previous significance.

2,652,426

PREPARATION OF ALKANE PHOSPHONIC ACIDS

Richard D. Stayner, Albany, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware

No Drawing. Original application February 4, 1948, Serial No. 6,345. Divided and this application August 28, 1950, Serial No. 181,917

4 Claims. (Cl. 260—500)

1. The method of preparing a long-chain alkane phosphonic acid having from 10 to 18 carbon atoms in the alkyl group attached to the phosphorus atom, said method comprising heating to its boiling point a substantially anhydrous mixture of 1 mole of a long-chain alkane phosphonyl dichloride having from 10 to 18 carbon atoms in the alkyl group attached to the phosphorus atom, and at least 2 moles of a low molecular weight saturated aliphatic monocarboxylic acid, the acid chloride of which boils at a temperature below the boiling point of said long-chain alkane phosphonyl dichloride.

2,652,427

PREPARATION OF SULFONATION PRODUCTS

Andrew Shultz, Jr., Buffalo, N. Y., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application August 26, 1950, Serial No. 181,695

9 Claims. (Cl. 260—505)

1. In the production of alkylaromatic sulphonic acids, the steps comprising reacting an alkylaromatic hydrocarbon containing from 10 to 20 carbon atoms in the alkyl group with a sulphonating agent to produce a liquid product comprising alkylaromatic sulphonic acid and sulphonating agent in admixture, subsequently mixing such admixed sulphonic acid and sulphonating agent with a water-soluble polyhydric alcohol in quantity no greater than about 25% by weight with respect to the quantity of alkylaromatic sulphonic acid present but such as to produce a system separable into masses of differing densities, one of said masses comprising alkylaromatic sulphonic acid and another comprising the bulk of the polyhydric alcohol and substantially all of the sulphonating agent present in the aforesaid product, effecting such separation, and withdrawing the last-named mass from the system.

2,652,428

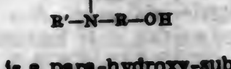
N-ALKYL-N-(β-METHYLSULFONAMIDOETHYL)-P-AMINOPHENOLS

Arnold Weissberger, John R. Thirtle, and Richard L. Bent, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application May 5, 1951, Serial No. 224,824

4 Claims. (Cl. 260—556)

1. A compound having the formula:



in which R is a para-hydroxy-substituted monocyclic aryl radical and R' is an alkyl radical in which the alkyl group contains from 1 to 2 carbon atoms.

2,652,429

REACTION OF CRACKED PETROLEUM FRACTIONS, FORMALDEHYDE AND AMMONIUM HALIDES AND PRODUCTS

Howard D. Hartough, Pitman, Joseph J. Dickert, Jr., Westville, and Seymour L. Meisel, West Deptford Township, Gloucester County, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application June 17, 1950, Serial No. 168,253

8 Claims. (Cl. 260—563)

1. A method of preparing basic nitrogenous derivatives from olefinic petroleum fractions which comprises mixing a petroleum hydrocarbon fraction containing olefinic materials with formaldehyde and a hydrohalide of ammonia in which the halogen has an atomic weight greater than 19, to form a reaction mixture, a maintaining said reaction mixture at a temperature of about 50° to about 150° C., and separating basic nitrogenous material formed thereby from the reaction mixture.

8. A nitrogenous reaction product containing between about 7.8 weight per cent and about 14 weight per cent of nitrogen produced by heating a reaction mixture of an olefinic petroleum hydrocarbon fraction produced by cracking of petroleum, formaldehyde, and ammonium chloride, at between about 55° C. and about 130° C., and for between about one hour and about six hours; said reaction mixture containing in excess of 2 moles of formaldehyde and 1 mole of ammonium chloride per mole of olefinic material.

2,652,430

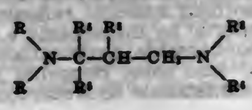
PROCESS FOR THE PREPARATION OF N-SUBSTITUTED SATURATED DIAMINES

Harry de V. Finch, Berkeley, and Seaver A. Ballard, Orinda, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

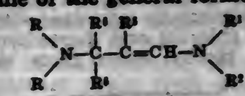
No Drawing. Application February 13, 1950, Serial No. 144,026

7 Claims. (Cl. 260—583)

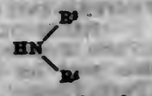
1. A process for preparing an N-substituted 1,3-alkanediamine of the general formula



which consist of heating a N-substituted 1,3-alkenediamine of the general formula



with a mole excess of an amino compound of the general formula



in the presence of added molecular hydrogen and in the presence of a hydrogenation catalyst at a temperature within the range of from about 50 to about 300° C. and under a hydrogen pressure within the range of from about 500 to about 10,000 pounds per square inch, in said formulae R^2 representing a non-aromatic hydrocarbon radical, R and R^1 representing a member of the group consisting of hydrogen and non-aromatic hydrocarbon radicals, R^3, R^4, R^5 representing a member of the group consisting of hydrogen and lower alkyl radicals, the members represented by R^1, R^2, R^3 and R^4 being so chosen that the groups represented in said formulae by $—NR^1R^2$ and NR^3R^4 differ from each other, and each of the groups represented in said formulae by —NRR and $—NR^1R^2$ contain from two to twenty carbon atoms.

2,652,431

PROCESS FOR SEPARATING β-CHLORO-α-ALKOXYETHYLBENZENES FROM THEIR REACTION MIXTURE

Frederick Greuser, North Plainfield, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application March 7, 1951, Serial No. 214,441

6 Claims. (Cl. 260—611)

1. In the process of preparing β-chloro-α-alkoxyethylbenzenes by chlorinating an equimolecular amount of styrene in a lower alkyl alcohol in the presence of an alkaline reagent at a temperature of —5 to 30° C. for a time sufficient to permit the equivalent molecular amount of chlorine to be absorbed with the formation of a solid reaction product, the improvement which comprises treating the reaction mixture with a volume of water equal to one-half the volume of the reaction mixture, to dissolve the solid and cause the liquid to separate into two liquid layers, the heavy layer containing the product and the top layer containing alcohol-water, separating the layers, and washing the lower layer at least once with water.

2,652,432

METHOD OF MAKING CHLOROMETHYL METHYL ETHER

William C. Bauman and Elmer L. McMaster, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application June 7, 1950, Serial No. 166,758

5 Claims. (Cl. 260—614)

1. A method of making chloromethyl methyl ether which comprises, introducing hydrogen chloride into a mixture containing, as the essential reactants, approximately molecular equivalent proportions of formaldehyde and methyl alcohol in admixture with calcium chloride in amount corresponding to from 0.5 to 1 part by weight of the calcium chloride per part of water

to be present upon completion of the reaction, at a temperature between 0° and 60° C. until the mixture is substantially saturated with respect to the hydrogen chloride and thereafter separating chloromethyl methyl ether from the reaction mixture.

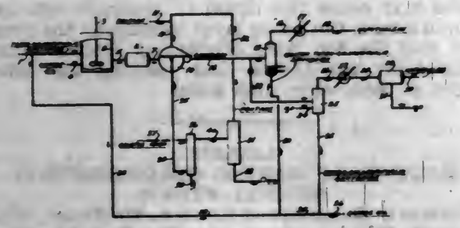
2,652,433
METHOD OF OBTAINING CAROTENE FROM PALM OIL
Pierre Blaisot, Paris, France, assignor to Institut de Recherches pour les Huiles de Palme et Oleagineux, Paris, France
No Drawing. Application October 8, 1949, Serial No. 120,417. In France February 10, 1949
1 Claim. (Cl. 260—666)

In a method of producing carotene from palm oil, the steps which consist in successively separating the oil into a solid fraction and a liquid carotene-rich fraction, alcoholyzing the latter to esters of low-molecular alcohols, saponifying said esters with a strong alkali under a vacuum and extracting the resulting soap with an organic solvent.

2,652,434
ALKYLATION PROCESS
Warren W. Johnstone, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application June 13, 1951, Serial No. 231,422
12 Claims. (Cl. 260—671)

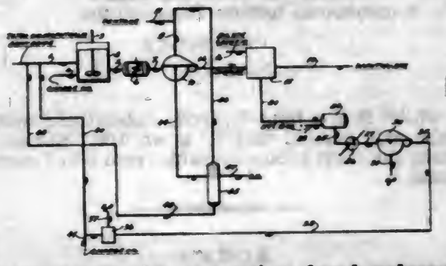
4. A process which comprises reacting an aromatic hydrocarbon having a replaceable nuclear hydrogen atom and an olefin at alkylating conditions in the presence of a catalyst comprising $B_4O_7(H_3P_3O_6)_2$.

2,652,435
PROCESS FOR SEPARATING POLYCYCLIC AROMATIC COMPOUNDS FROM ORGANIC MIXTURES
Howard V. Hess, Beacon, and George B. Arnold, Glenham, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
Application November 14, 1949, Serial No. 127,262
5 Claims. (Cl. 260—674)



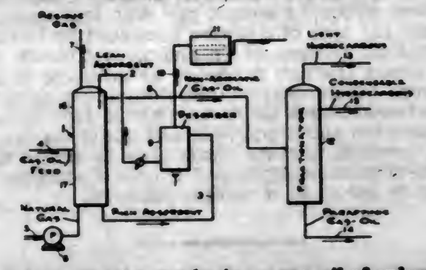
1. A process for recovering fused polycyclic aromatic compounds and homologs thereof from mixtures containing such compounds in combination with similar boiling hydrocarbons which comprises contacting said mixture with tetrahalophthalic anhydride, forming a complex consisting mainly of said tetrahalophthalic anhydride and said fused polycyclic aromatic compounds, separating said complex in solid form at a temperature below 150° F. and decomposing said complex by contact with steam at a temperature between 300 and 500° F.

2,652,436
PROCESS FOR SEPARATING POLYCYCLIC AROMATIC COMPOUNDS FROM ORGANIC MIXTURES
Howard V. Hess, Beacon, and George B. Arnold, Glenham, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
Application December 7, 1949, Serial No. 131,633
9 Claims. (Cl. 260—674)



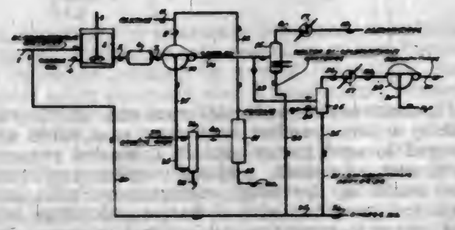
1. A process for recovering fused polycyclic aromatic compounds, homologs and substituted derivatives thereof from mixtures containing such compounds in combination with similar boiling hydrocarbons which comprises contacting said mixture with tetrahalophthalic anhydride, forming a complex consisting mainly of said tetrahalophthalic anhydride and said fused polycyclic aromatic compounds, separating said complex in solid form at a temperature below 150° F. and decomposing said complex by dilute caustic solution to recover said fused polycyclic aromatics therefrom.

2,652,437
ADSORPTION-STRIPPING SEPARATION SYSTEM
Stanley J. Marwil, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application December 19, 1949, Serial No. 133,819
3 Claims. (Cl. 260—674)



1. A process for producing a gas-oil of enhanced aromaticity from a gas-oil containing at least some aromatic hydrocarbons comprising maintaining a downward-flowing stream of solid adsorbent material of the type adapted to adsorb aromatic hydrocarbons in a contacting zone having an inlet end and an outlet end with respect to flow of adsorbent, introducing gas-oil containing aromatic hydrocarbons into said contacting zone and therein contacting said gas-oil and said solid adsorbent countercurrently at a temperature from 50° to 120° F. at greater than atmospheric pressure whereby aromatic hydrocarbons and some non-aromatic hydrocarbons are retained by said solid adsorbent material, refluxing said solid adsorbent material by introducing a natural gas containing condensable hydrocarbons into the outlet end of said zone, removing natural gas denuded of condensable hydrocarbons from the inlet end of said zone as one product of the process, removing a stream of gas-oil denuded of aromatic hydrocarbons and containing said condensable hydrocarbons from the inlet end of said zone, recovering said condensable hydrocarbons and said gas-oil denuded of said aromatic hydrocarbons from this latter stream as additional products of the process, removing solid adsorbent material from the outlet end of said zone and recovering therefrom a gas-oil of enhanced aromaticity as a main product of the process.

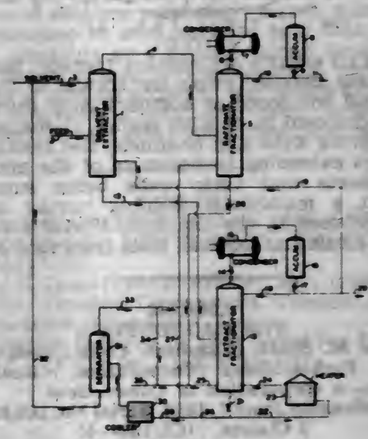
2,652,438
PROCESS FOR SEPARATING ACENAPHTHENE
George B. Arnold, Glenham, and Howard V. Hess, Beacon, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
Application February 23, 1950, Serial No. 145,638
6 Claims. (Cl. 260—674)



1. A process for recovering acenaphthene and homologs thereof from mixtures containing such compounds in association with aromatic compounds of similar boiling point which comprises contacting said mixture with dihalophthalic anhydride, forming a complex comprising said dihalophthalic anhydride and said acenaphthene compounds, separating said complex in solid form at a temperature below 150° F. and decomposing said complex by contact with steam at a temperature between 300 and 600° F.

2,652,439
HYDROCARBON SEPARATION
Frederick C. Neuhart and Gerhard A. Gohlke, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Application November 3, 1949, Serial No. 125,298
6 Claims. (Cl. 260—676)

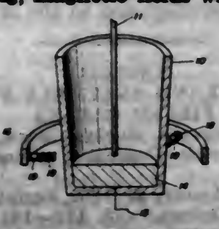
1. The process for resolving a mixture of close-boiling unsaturated and more saturated aliphatic hydrocarbons which comprises contacting said mixture in liquid phase with a liquid solvent higher boiling than the hydrocarbons in said mixture and selective for the more unsaturated hydrocarbons in said mixture, fractionally distilling the extract phase from said contacting step in the presence of an inert organic compound boiling intermediate said solvent and the hydrocarbons in said mixture, recovering from said fractionation step an unsaturated hydrocarbon concentrate as a product of the process, withdrawing a first bottoms product from said fractionation step containing liquid solvent and intermediate boiling organic compound at a temperature higher than the temperature of a second bottoms product from a second fractionation step to be described, passing said first bottoms product at said higher temperature from said first fractionation step to said second fractionation step, fractionally distilling raffinate phase from said first-named contacting step in the presence of said first bottoms product containing said intermediate boiling organic compound from the first named fractionation step as a source of heat for the second fractionation step, and recovering from said second fractionation step a concentrate of hydrocarbon more saturated than said unsaturated hydrocarbon as a product of the process.



ELECTRICAL

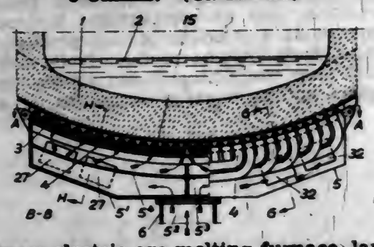
2,652,440
ELECTRIC ARC MELTING FURNACE
Orien W. Simmons, Columbus, Ohio, assignor, by mesne assignments, to The Battelle Development Corporation, Columbus, Ohio, a corporation of Delaware
Application July 18, 1950, Serial No. 174,288
6 Claims. (Cl. 13—11)

1. An electric arc melting furnace comprising a container means, means for producing a vertically-extending electric arc within said container means, and means, exterior of said container means, for producing two, divergent, horizontally-extending, magnetic fields which would be



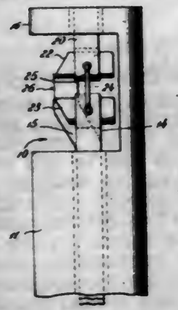
adjacent said electric arc, on either side thereof, and within said container means.

2,652,441
ELECTRIC MELTING FURNACE
Sven E. Gynt, Vagn Poulsen, and Ragnar Lundqvist, Vasteras, Sweden, assignors to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a corporation of Sweden
Application July 7, 1950, Serial No. 172,434
In Sweden July 22, 1949
6 Claims. (Cl. 13—26)



1. In an electric arc melting furnace, laminate iron cores disposed below the bottom of the furnace and composed of comparatively thick iron sheets disposed in parallel planes, U-shaped iron bars having webs and channels, the channels of the bars extending transversely of the planes of said sheets and their webs being supported thereon, a multiphase winding having its coil sides disposed in the channels of said bars, and means insulating said coil sides from said bars.

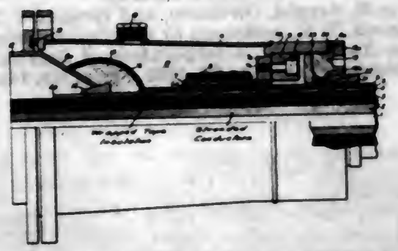
2,652,442
THERMOCOUPLE
Roderic M. Scott, Stamford, Conn., assignor to The Perkin-Elmer Corporation, Glenbrook, Conn., a corporation of Connecticut
Application June 7, 1950, Serial No. 166,658
7 Claims. (Cl. 136—4)



1. A thermocouple which comprises a pair of elements made of substantially the same materials of high thermoelectric power, a foil of a material of low thermoelectric power joined to the elements over small areas, a conductor, on which one of the elements is mounted, a conductive mounting for the other element, a conductive connection between the elements remote from the foil, a second conductor, and a metallic fibre connected to the second conductor and to the foil.

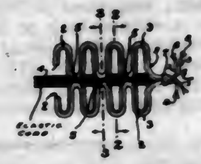
2,652,443
STUFFING GLAND ASSEMBLY FOR FLUID FILLED CABLES
Phillips N. Bosworth, Becket, Mass., assignor to General Electric Company, a corporation of New York
Application February 21, 1951, Serial No. 212,101
2 Claims. (Cl. 174—19)

1. In combination with a housing for a joint in the conductors of a fluid-filled electrical cable having a plurality of sheaths separated by reinforcing tape and having its outermost sheath terminated at a predetermined distance from the joint end of said conductors, a stuffing gland assembly comprising a ferrule including a flange encircling said cable adjacent to the termination of said outermost sheath; a portion of said tape normally extending beyond the joint end of said ferrule being bent back and laid onto the outer surface of said ferrule; a plurality of turns of wire securing said bent back portion of said tape in tight fitting engagement with said ferrule; an enclosing shell extending from said housing beyond said ferrule and having in its end portion opposite from said housing an inner circumferen-



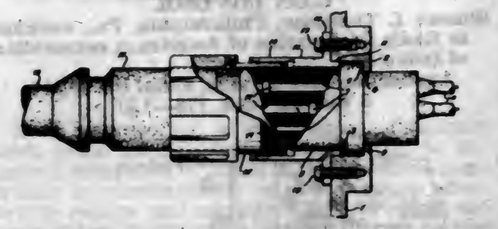
tial recess; gasket material enclosed within said recess; a ring member encircling said cable and secured to said flange and in threaded engagement with said shell; a gland member encircling said cable in threaded engagement with said shell and provided with a flange extending into said recess to compress said gasket material and having a recessed portion adjacent said cable to provide a packing cavity; gasket material partially filling said cavity; a stuffing nut encircling said cable and being in threaded engagement with said gland member and projecting into said cavity to compress said gasket material contained therein; and means sealing said shell to said housing.

2,652,444
EXTENSIBLE ELECTRIC CORD
Félix Jean Marie Dansard, Saint-Chamond, France
Application September 13, 1950, Serial No. 184,677
In France October 5, 1949
3 Claims. (Cl. 174—69)



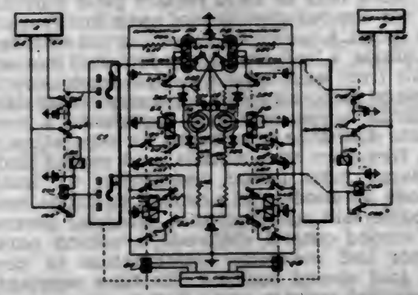
1. A resiliently extensible electric cord of the class described, comprising: a central resiliently longitudinally extensible member; a pair of non-elastic flexible ribbon members disposed on opposite sides of said extensible member, the lengths of said ribbon members being greater than the unstressed length of said extensible member, opposed edge portions of said two ribbon members being interconnected at spaced points along their lengths defining a free space between said ribbon members serving as a guideway for said extensible member; means interconnecting the end portions of said ribbon members and the end portions of said extensible member for preventing relative movement therebetween; and at least one flexible electrical conductor extending longitudinally along at least one of said ribbon members, said conductor being carried by said ribbon member for flexure therewith.

2,652,445
CABLE ENTRANCE FOR SEALED ENCLOSURES
James H. Simpson, St. Louis, Mo., assignor, by mesne assignments, to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application January 22, 1949, Serial No. 72,252
1 Claim. (Cl. 174—77)



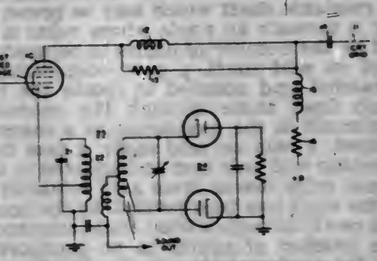
A device of the character described, comprising a sealed enclosure, said sealed enclosure having an entrance opening in a wall thereof; a conductor cable provided with a plug-socket connector body having a sealing flange therearound; a boss defining a restricted inside portion of the entrance opening in said wall and providing an inwardly radially extending shoulder engaged by an outwardly radially extending inside face of said sealing flange; and a collar on said connector body, said collar having an extension at one end proportioned radially to fit slideably within the unrestricted portion of said entrance opening and axially to engage and press against an outwardly radially extending outside face of said sealing flange, a radially extending flange clamped to the outside of said wall, and a threaded section at its end opposite said extension adapted for connection to a complementary threaded plug-socket connector.

2,652,446
RELEASE SIGNAL FOR TELEGRAPH SYSTEMS
Roelof M. M. Oberman, The Hague, Netherlands
Application July 30, 1947, Serial No. 767,523
In the Netherlands April 29, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires April 29, 1964
9 Claims. (Cl. 178—4.1)



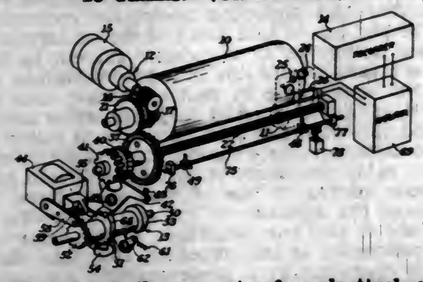
1. A telegraph system, comprising, in combination, an exchange including a battery having a first terminal and a second terminal; a first subscriber including a first line; a second subscriber including a second line; means for connecting said first subscriber to said exchange, said means for connecting said first subscriber to said exchange including means for connecting said first line to said first and second terminals of said battery so as to cause a current to flow through said first line in a predetermined direction; means for connecting said second subscriber to said exchange, said means for connecting said second subscriber to said exchange being operated by a signal transmitted by said first subscriber and including means for connecting said second line to said first and second terminals of said battery so as to cause a current to flow through said second line in a predetermined direction; a repeater in said exchange, said repeater being connected by said connecting means of said subscribers to said lines of said subscribers so as to reproduce signals transmitted by any one of said subscribers to the other of said subscribers; means in one of said subscribers for reversing the direction of the current flowing in said line of said one subscriber; a time delay circuit connected to said repeater, said time delay circuit operating at a predetermined time after the actuation of said current reversing means in said one of said subscribers; and means actuated by the operation of said time delay circuit for disconnecting said other subscriber from said exchange.

2,652,447
SOUND SEPARATION MEANS FOR CARRIER FREQUENCY DIFFERENCE TELEVISION RECEIVERS
Edward L. Crosby, Jr., Baltimore, Md., assignor to Bendix Aviation Corporation, Towson, Md., a corporation of Delaware
Application January 19, 1949, Serial No. 71,745
5 Claims. (Cl. 178—5.8)



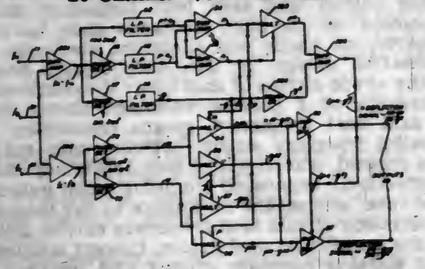
1. In a television receiver for receiving television signals consisting of an amplitude modulated video signal carrier and a related frequency modulated audio signal carrier, the two carriers being separated by a substantially fixed frequency difference, said receiver including means heterodyning and amplitude detecting said carriers to produce a video output and a beat frequency carrier having a frequency equal to said fixed frequency difference and bearing said frequency modulation, means for amplifying said video output and said beat frequency carrier including an electron discharge tube having a cathode, an anode and a control electrode, and utilization means for the video signals coupled to the anode circuit of said tube: the combination therewith of a parallel resonant circuit tuned to said beat frequency, means connecting said parallel resonant circuit between said cathode and ground, whereby said beat frequency carrier is effectively separated from the video output of said tube, and means responsive to the frequency modulation of said beat frequency carrier but not to the amplitude modulation thereof coupled to said parallel resonant circuit and deriving the frequency modulation envelope of said beat frequency carrier.

2,652,448
FACSIMILE APPARATUS FOR REPEAT COPIES
Clayton E. Hunt, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application January 18, 1951, Serial No. 206,618
15 Claims. (Cl. 178—6.6)



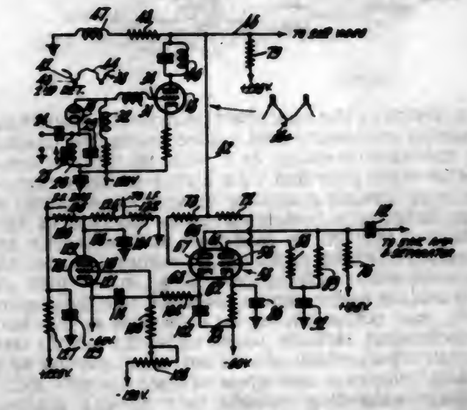
1. In a facsimile apparatus for selectively making a predetermined or an indefinite number of copies, a scanning drum and a scanning head, means including a rotatable screw adapted to drive the scanning head in a path parallel to the axis of rotation of the drum, drive means including a reversing mechanism for alternately rotating the screw clockwise and counterclockwise, means including a solenoid for actuating the reversing mechanism, the scanning head being adapted to automatically alternately energize and deenergize said solenoid upon its reaching certain predetermined limits in its travel upon said screw, a selector mechanism for automatically determining the number of times the sheet to be copied will be scanned, said selector mechanism including a rotatable shaft which may be preset by rotating it through an angle whose value is determined by the number of copies to be produced, a ratchet on said shaft, a pawl cooperating with said ratchet and adapted to rotate the ratchet through fixed angle through the operation of said solenoid at the completion of a scanning of said sheet, a cam on said shaft, a cam follower cooperating with said cam and adapted to disconnect said drive means from said rotatable screw after the shaft has been rotated, by the operation of said pawl, through a total angle corresponding to the number of copies to be produced, and means for rendering the selector mechanism inoperative whereby the scanning of said sheet will repeat indefinitely.

2,652,449
MOTIONAL CORRELATION IN REDUCED BAND WIDTH TELEVISION
Robert E. Graham, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 30, 1949, Serial No. 136,106
10 Claims. (Cl. 178—6.8)



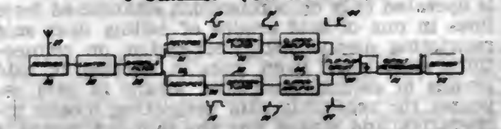
1. In a television system in which separate signals are formed representing fine and coarse detail of a pictorial subject, means for discarding periodically a portion of the fine detail signals, means for deriving from said coarse detail signals a resultant signal having information relative to the motion of said pictorial subject, and means for producing from said fine detail signals which have not been discarded, from said coarse signals, and from said resultant signal a television image signal representative of said pictorial subject.

2,652,450
SYNC SEPARATION AND AUTOMATIC GAIN CONTROL
Simeon I. Tourshou, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application May 29, 1948, Serial No. 30,677
3 Claims. (Cl. 178—7.3)



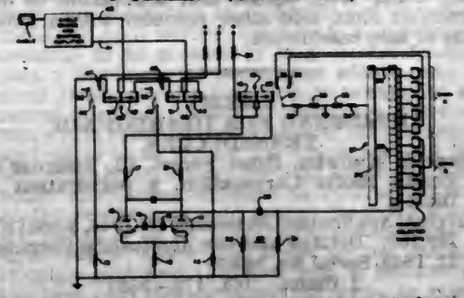
1. In television apparatus having automatic gain control means and wherein high frequency and low frequency sync signals and image signals are received as a composite signal in which the sync signals are of greater amplitude than the image signals, means for detecting said composite signal, electric discharge tube means for separating said low frequency sync signals from said image signals, said electric discharge tube means comprising at least an anode, a cathode, and a control electrode, means to couple the composite output of said detecting means to said control electrode, a parallel resistor and condenser combination in circuit with said cathode, the time constant of said resistor and condenser combination being long so as to require plate current to flow for the full duration of each low frequency sync signal, a source of direct current voltage for said anode, a load impedance included in a series circuit from said source to said anode, coupling means to recover said low frequency sync signals appearing across said load impedance, a second electric discharge tube means for separating said high frequency sync signals, said second electric discharge tube means comprising at least a cathode, an anode, and a control electrode, means to couple said output of said detecting means to said second control electrode, a second parallel resistor and condenser combination in circuit with said second cathode, the time constant of said second resistor and condenser combination being comparable to several times the period of the high frequency sync signals, a load impedance included in a series circuit from said source to said second anode, coupling means to recover said high frequency sync signals appearing across said last-named load impedance, and means including said second resistor-condenser combination for deriving from the cathode of said second tube a voltage proportional to the amplitude of said higher frequency sync signals, said voltage being adapted to control said automatic gain control means.

2,652,451
OVERCOMING ELONGATION OF PULSES
Lewis C. Feten, Long Beach, Calif.
Application March 16, 1951, Serial No. 215,973
6 Claims. (Cl. 178—66)



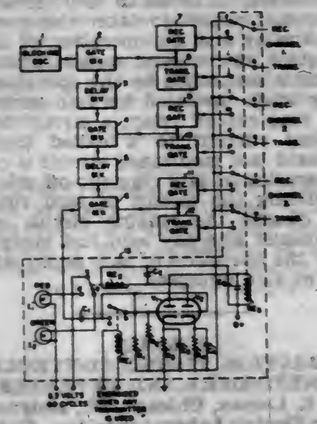
1. A receiver for a mark-space, frequency shift, pulse transmission system subject to undesired elongation of pulses in transmission, comprising in combination: receiving means effective to receive and amplify alternate mark and space pulses, mark pulses being of a given carrier frequency and space pulses being of a slightly different carrier frequency, filter means connected to said receiving means and having two output terminals and being effective by frequency discrimination to separate mark pulses from space pulses and to apply mark pulses to one of its output terminals and space pulses to the other of its output terminals, a pair of rectifying means connected respectively to said output terminals of said filter means to detect the outputs from said filter means and thus create respectively mark pulses and space pulses, a pair of differentiating means connected respectively to said rectifying means to receive the mark pulses and space pulses, and effective to produce in response thereto sharp spikes at the start and finish of each pulse, start spikes being of one polarity and finish spikes being of opposite polarity, a pair of clipping means connected, respectively, to said pair of differentiating means to eliminate the finish spikes and deliver only start spikes, a flip-flop circuit having two stable modes of operation and a pair of input terminals, circuit means connecting one of said terminals to one of said clipping means and the other of said terminals to the other of said clipping means, and output means connected to said flip-flop circuit to produce marks and spaces therefrom.

2,652,452
INTERPOLATING CIRCUIT
Albert E. Frost, Bloomfield, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application December 18, 1951, Serial No. 262,279
8 Claims. (Cl. 178—70)



1. An electrical circuit arrangement for regenerating periodic input signals having varying repetition rates and in which dot frequency components are attenuated below the effective operating level, comprising a pair of gaseous discharge tubes arranged to conduct alternately in response to applied positive voltage peaks, a source of voltage pulses having a repetition rate equal to said dot frequency, a differentiating network intercoupling said source and said tubes for generating voltage peaks and applying said voltage peaks to said tubes thereby to cause said tubes to conduct alternately, whereby alternations in conduction of said tubes may occur at said dot frequency, an output circuit coupled to said tubes, means in said circuit responsive to said alternations in conduction to produce periodic output signals having a repetition rate equal to said dot frequency, an input circuit coupled to said tubes and arranged to receive said input signals, means in said input circuit for selectively suppressing said alternations in conduction of said tubes for time intervals determined by the repetition rates of said input signals whereby said output signals correspond in repetition rates to said input signals with said dot frequency components interpolated therein.

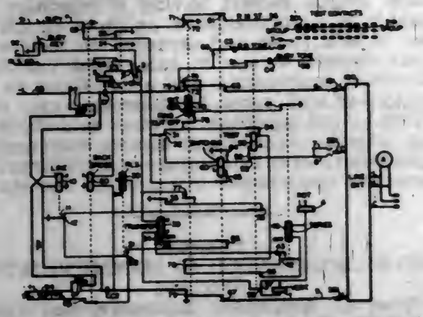
2,652,453
MULTICHANNEL RADIO COMMUNICATION SYSTEM
William G. Alexander, Baltimore, and Charles McL. Harden, Towson, Md., assignors to Bendix Aviation Corporation, Towson, Md., a corporation of Delaware
Application March 17, 1950, Serial No. 150,234
3 Claims. (Cl. 179—15)



1. In a radio communication station comprising a plurality of communication channels, each of said channels comprising a radio transmitter and a radio receiver tuned to a common frequency; the combination with said channels of means for sequentially keying said channels at a rate higher than the highest audio frequency translated by said channels, said means comprising means actuated upon the operation of any of said transmitters to bias all of said channels to cutoff, a blocking oscillator, a chain of single pulse generating circuits, one of said circuits being connected to be triggered by the output of said blocking oscillator, the remaining circuits of said chain being sequentially triggered, each by the termination of the pulse generated by the next preceding circuit of said chain, the time constants of said blocking oscillator being such that the interval between the pulses of its output is slightly longer than the sum of the durations of

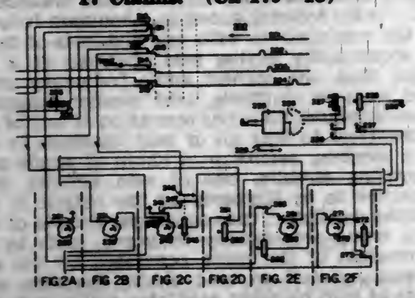
the pulses produced by said chain, and means applying the pulse output of a respective one of the circuits of said chain to the transmitter and receiver of each of said channels to overcome the bias thereof and render the same conductive for the duration of said pulse output.

2,652,454
ROTARY CONNECTOR SWITCH
Morris E. Griffiths, Riverside, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application November 26, 1949, Serial No. 129,599
14 Claims. (Cl. 179—18)



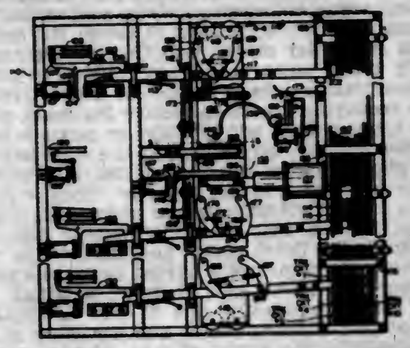
1. In a telephone system, an automatic switch having wipers and means for receiving a series of impulses, a magnet for rotating said wipers, a line relay in the switch operated by said series of impulses, a circuit for said magnet, a series relay connected in series in said circuit, means to control said circuit to cause the operation of said series relay and the operation of said magnet to rotate the wipers, means whereby said last means is controlled by the operation of said line relay when operated by said series of impulses, a ring cut-off relay, a circuit for applying ringing current to a called line, means whereby said last mentioned circuit is controlled by the operation of said ring cut-off relay, means for completing the circuit of said ring cut-off relay to disable the ringing circuit controlled thereby, means whereby said last means is controlled by the operation of said series relay when operated by said impulses.

2,652,455
CONVERSATION TIMING CONTROLLED IN LINEFINDERS AND REPEATERS
Clarence E. Lomax, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application January 11, 1950, Serial No. 138,009
17 Claims. (Cl. 179—18)



1. For use in a telephone system having a plurality of groups of calling lines and a plurality of groups of called lines, a linefinder having access to said plurality of groups of calling lines, a repeater circuit accessible from said linefinder circuit, means for establishing a connection between any one line of said groups of calling lines and any one line of said groups of called lines through said linefinder and said repeater, restricting means in said repeater operative to impose a time restriction on the use of said linefinder and repeater, circuit means in said linefinder operative to cause operation of said restricting means, means whereby said last means is operated only on connections established from lines in one of said groups of calling lines said restricting means being inoperative on connections established from lines in another of said groups of calling lines, and means in said repeater for rendering said restricting means inoperative, and means whereby said last means is operated on a connection established from a line in said one group of calling lines to a line in a certain one group of said groups of called lines.

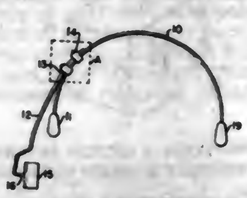
2,652,456
NONNUMERICAL TELEPHONE SWITCHING ARRANGEMENT
John Wicks, Biloxi, Miss., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application November 26, 1949, Serial No. 129,625
10 Claims. (Cl. 179—27.52)



1. In a switching arrangement, movable conductors arranged in a flat plane of parallel rows, two levers each adapted to have a linear movement and a pivoted movement, two actuators, means for operatively aligning both said actuators with one of said conductors, means for causing a pivoted movement of one of said levers, said pivoted movement of said one lever causing one of said actuators to move said one conductor, means responsive to said moving of said one conductor for causing a linear movement of said other lever across said conductors to operatively align said other actuator with another one of said conductors.

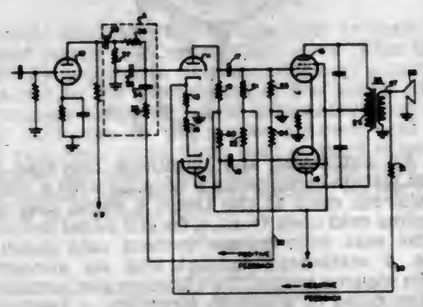
2,652,457
HEADBAND FOR HEARING AID TRANSDUCERS
Hugh S. Knowles, River Forest, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Original application November 13, 1946, Serial No. 709,580. Divided and this application February 12, 1949, Serial No. 76,068
1 Claim. (Cl. 179—156)

Hearing aid apparatus including, a headband arranged to engage a user's head and to provide a supporting portion; a bone conduction transducer constructed to vibrate within a predetermined band of frequencies; and a single resilient distortable member mechanically connected to said supporting portion of said headband, ex-



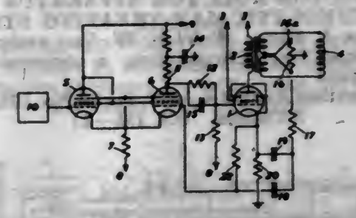
tending beyond one termination of said headband effectively to constitute an extension thereof, and supporting said transducers at its free end, the mechanical system comprising said resilient member and said transducer having a natural resonant frequency below said band of frequencies.

2,652,458
AMPLIFIER WITH POSITIVE AND NEGATIVE FEEDBACK
John Milton Miller, Jr., Baltimore, Md., assignor to Bendix Aviation Corporation, Towson, Md., a corporation of Delaware
Application January 13, 1949, Serial No. 70,746
4 Claims. (Cl. 179—171)



1. In an amplifier comprising a number of cascaded stages, a first feedback loop embracing a plurality of said stages, said first feedback loop having a loop gain numerically substantially greater than unity and negative in sense in the desired range of operation of said amplifier and being subject to phase shifts which render it positive in sense at frequencies outside said desired range of operation, a second feedback loop embracing at least one less of said stages embraced by said first feedback loop, said second feedback loop having a loop gain of approximately unity and positive in sense in said desired range of operation, the improvement comprising a phase shifting network in said second feedback loop consisting of a plurality of impedance means of such nature, magnitude and interconnections as to present to said second feedback loop a minimum of impedance within said desired range of operation and to present to said second feedback loop, at frequencies above and below said range an impedance of such character and value as to reduce the amplitude and shift the phase of the energy fed back thereby, the said phase shift being sufficient to reverse the sense of the feedback of said second feedback loop to the negative at all frequencies outside said desired range where the sense of the feedback through said first feedback loop is positive and the loop gain thereof would otherwise be greater than unity.

2,652,459
NEGATIVE FEED-BACK AMPLIFIER
Eric Lawrence Casling White, Iver, England, assignor to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain
Application June 22, 1949, Serial No. 100,094
In Great Britain June 30, 1948
5 Claims. (Cl. 179—171)



1. A thermionic valve amplifier comprising a thermionic valve having at least a cathode, a control electrode, and an output electrode, an input circuit for applying signals to be amplified to said control electrode, an output circuit including a transformer having a primary winding connected to said output electrode, filter means for applying signals from a point in said output circuit to said input circuit to afford negative feedback to said input circuit, an impedance in a space current path of said valve, and filter means for applying signals from one end of said impedance to said input circuit to afford negative feedback to said input circuit, said first and second filter means having complementary frequency characteristics with the pass-band of the first means in a frequency range in which feedback signals from said output circuit have appropriate phase to afford negative feedback to said input circuit, and with the pass-band of the second means in a frequency range in which signals from said output circuit would afford positive feedback if fed to said input circuit.

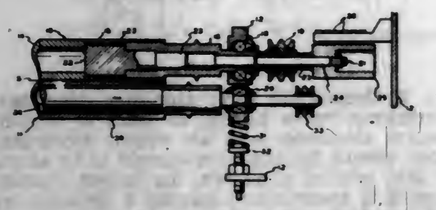
2,652,460
TRANSISTOR AMPLIFIER CIRCUITS
Robert L. Wallace, Jr., Plainfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 12, 1950, Serial No. 184,457
10 Claims. (Cl. 179—171)



1. A signal translating circuit which comprises a transistor having a semiconductive body, an emitter electrode, a collector electrode, and a base electrode engaging said body, an input circuit interconnecting said emitter electrode with said base electrode, an output circuit interconnecting said collector electrode with said base electrode, means for supplying to said emitter electrode a bias current which is substantially fixed in magnitude regardless of normal changes in the emitter electrode voltage and for supplying to said collector electrode a bias current which is substantially fixed in magnitude regardless of normal changes in collector electrode voltage, said means being proportioned to supply said fixed emitter bias current in magnitude such that, in the absence of a signal applied to said input circuit, the collector voltage of said transistor is substantially equal to zero, whereby application

of an alternating input signal to said emitter electrode causes said collector voltage to swing away from its zero value and back again during signal excursions of one sign and to remain at said zero value throughout signal excursions of the opposite sign.

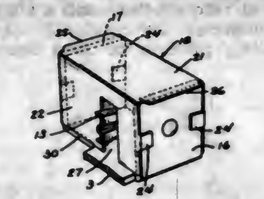
2,652,461
CONDUCTOR ROLL FOR APPARATUS FOR ELECTROLYTICALLY TREATING STRIP
Clarence J. Klein, Weirton, W. Va., assignor to National Steel Corporation, a corporation of Delaware
Application August 4, 1949, Serial No. 108,607
3 Claims. (Cl. 191—1)



1. A conductor roll for making electrical contact with and conducting electrical current to a moving strip comprising an elongated integral tubular body member formed of a conductive metal having an internal substantially cylindrical surface and an external substantially cylindrical surface for making electrical contact with the surface of the moving strip, the internal surface of the body member including a threaded surface portion, supporting means mounted at the ends of the body member for rotatably supporting the body member for rotation about its longitudinal axis, the supporting means including a supporting member at one end of the body member having a longitudinal bore concentric with the longitudinal axis of the body member, and an integral electrical current conductor member formed of conductive metal having a relatively lower electrical resistance than the supporting member for connecting the body member to a source of electrical current, the integral conductor member including a first portion extending outside the supporting member and adapted to be connected to a source of electrical current, a second portion extending through the bore of the supporting member and an enlarged portion extending into one end of the body member, the enlarged portion including an external threaded substantially cylindrical surface having a diameter substantially equal to the diameter of the threaded surface portion of the internal surface of the body member, and the external threaded surface on the enlarged portion of the integral conductor member threadedly engaging the threaded surface portion of the body member to form a mechanical connection and a low resistance electrical connection between the integral conductor member and the body member.

2,652,462
SHIELDED CIRCUIT BREAKER
Marion Mallory, Detroit, Mich.
Application October 8, 1951, Serial No. 250,312
11 Claims. (Cl. 200—19)

1. A shield for a circuit breaker comprising a base and opposed end walls and a resilient cover therefor comprising a top wall and side walls, said top and side walls of said cover overlapping the top and side edges of said end walls and resiliently gripping said end walls to hold the cover in place, one side wall having an opening extending to the bottom edge thereof and



adapted for receiving a circuit breaker arm, said cover being vertically slidable over said end walls.

2,652,463
AUTOMATIC AND MANUALLY OPERATED MULTIPLE SWITCH FIRE ALARM STATION
Morris Levy, Philadelphia, Pa.
Application December 27, 1950, Serial No. 202,365
2 Claims. (Cl. 200—52)

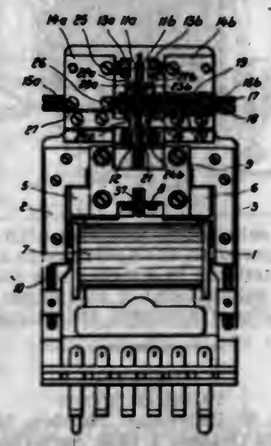


1. An automatic and manually operated fire alarm station comprising a housing with a chamber therein open at the front, a panel seat surrounding said open front, a fragile panel mounted on the seat with means to hold said panel in place, a stationary contact and an anchoring means secured within the chamber and constituting the poles of a switch structure, a resiliently operated primary movable contact member fixed to the anchoring means and in cooperative relation to the stationary contact, said primary movable contact member normally being held out of engagement with the stationary contact by the fragile panel which when broken releases said primary movable contact member to complete a circuit for producing a continuous alarm, a second resiliently operated movable contact member for bridging the poles of the switch structure, said second movable contact member including a contact portion and a stem bodily resiliently urged inwardly, said stem projecting through an aperture in a wall of the housing, and fusible means joined to said stem and engaging the exterior surface of the housing wall surrounding said aperture.

2,652,464
POLARIZED RELAY
Sten Daniel Vigren, Stockholm, Per Harry Elias Claesson, Jakobsberg, and Rolf Albin Zander, Stockholm, Sweden
Application May 31, 1951, Serial No. 229,058
In Sweden February 16, 1949
2 Claims. (Cl. 200—93)

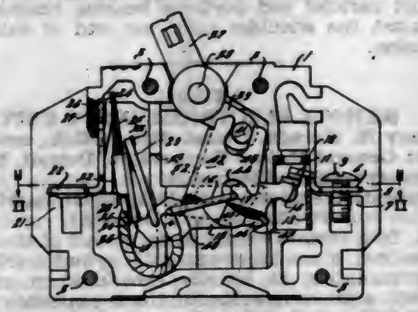
1. A polarized relay comprising an armature, means for defining a pivotal axis of said armature, a magnetic circuit comprising pole projections forming an air space confined by pole faces

facing opposite sides of said armature and a core having an energizing coil for the energization of said magnetic circuit said armature extending substantially perpendicularly to said core and having its pivotal axis situated adjacent to the middle portion of said coil, said pole projections further extending substantially parallel with said core and being spaced apart from said coil, pieces connecting said core with said pole projections and two permanent magnets being each mag-



netically coupled with its one pole to each one of said pieces and having their other poles magnetically coupled to said armature at a portion adjacent to the pivotal axis of the latter, which permanent magnets extend substantially parallel with said core in the spaces between said coil and said pole projections, and contact members operable by said armature, said pole face and said contact members being situated on the same side of said pivotal axis.

2,652,465
CIRCUIT BREAKER
John G. Jackson, Detroit, Mich., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Application December 22, 1951, Serial No. 263,918
14 Claims. (Cl. 200—116)



1. An automatic electric circuit breaker having a stationary contact, current responsive latching means, a switching member having a contact surface at one end cooperating with said stationary contact and a latching surface at its opposite end having a releasable engagement with said latching means, a U-shaped member pivoted on a fixed part and pivotally mounting said switching member, a manual operator, an operating member pivoted at one end on a fixed part and engaging said operator near its opposite end so as to be movable in response to movement of said manual operator, and spring means interconnecting said switching member and said operating member for moving said switching member to open and closed circuit positions in response to movement of said operator.

2,652,466
COMBINED FUSE AND INDICATOR
Herman H. Mehring, Omaha, Nebr.
Application February 29, 1952, Serial No. 274,133
2 Claims. (Cl. 200—121)

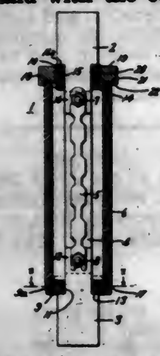


1. In a fuse plug, an insulated body having a receptacle entering end and another end, said body being provided with a central recess opening through said other end of the body, said central recess being elongated in the direction of the receptacle entering end of the body and terminating in longitudinally spaced relation thereto, a center external contact on said entering end of the body having a portion extending through said entering end into said recess, conductive strips extending longitudinally along opposite sides of said recess, one of said strips being connected at one end to said portion of the center contact and having a free end, a conductive shell mounted around the exterior of said body, the other of said conductive strips having an end connected to said shell and another end unconnected with said center contact, said recess having a lateral extension at one side thereof and located between said conductive strips, said extension opening into said recess, a glow lamp supported in said extension, said glow lamp having one side thereof connected to said shell and another side connected to said other conductive strip, and a removable plug fitting said recess and disposed therein, said plug having a fuse element including side portions extending along opposite sides of said plug in engagement with said conductive strips and a bight portion extending between and connected to said side portions, the side of said plug exposed in the recess extension serving as a wall bounding the open side of the recess extension.

2,652,467
RENEWABLE FUSE WITH POROUS METAL ENDS
Fred G. von Hoorn and Howard B. Bennett, Bridgeport, Conn., assignors to General Electric Company, a corporation of New York
Application May 31, 1952, Serial No. 290,896
5 Claims. (Cl. 200—132)

1. A renewable fuse structure comprising a pair of knife blades, a fuse link, means securing said fuse link and said support bar to the inner ends of said knife blades, a tubular insulator enclosing said fuse structure, a porous metal end closure having a diametrical slot positioned between each end of said insulator and the contiguous knife blade, one of said porous metal end closures having a threaded periphery, and a tightening ring having a threaded central bore,

said ring being engageable both with said threaded end closure and with the contiguous end of



said insulator, whereby, by tightening said ring on said threaded end closure, a rigid fuse structure is produced.

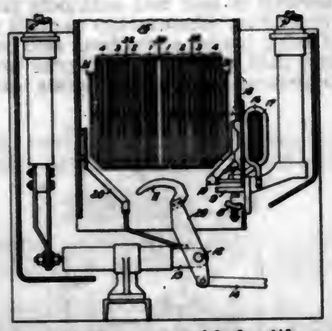
2,652,468
AUTOMATIC AND MANUALLY OPERATED FIRE ALARM SIGNAL STATION
Morris Levy, Philadelphia, Pa.
Application November 16, 1951, Serial No. 256,770
1 Claim. (Cl. 200—138)



An automatic and manually operated fire alarm station, comprising a housing with a chamber therein open at the front, a panel seat surrounding said open front, a fragile panel mounted on the seat with means to hold it in place, a stationary contact and an anchoring means secured within the chamber and constituting the poles of a switch structure, a resiliently operated primary movable contact member fixed to one pole and in cooperative relation to the other pole, said primary movable contact member being held out of contact with said other pole by the fragile panel which when broken releases said primary contact member to complete a circuit for producing a continuous alarm, and a second contact member responsive to heat and electrically connected to the first mentioned pole and normally out of engagement with said other pole and engaging said other pole when said second contact member is subjected to abnormal heat to also complete the same circuit for also producing a continuous alarm.

2,652,469
ARC CHUTE WITH SLOTTED AND PERFORATED BARRIER PLATES
Donald E. Weston, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Application September 20, 1950, Serial No. 185,722
10 Claims. (Cl. 200—144)

1. An electric circuit interrupter comprising means for drawing an arc and an arc chute for receiving and extinguishing the arc, said chute comprising a plurality of slotted spaced insulating plates arranged to extend longitudinally of the axis of said chute with the slots adjacent the zone of arc initiation to form an arc passage, a



number of said plates provided with a plurality of spaced apertures, the apertures in any particular plate extending in a zigzag line from said slot toward the exhaust end of said chute for providing a plurality of auxiliary arc passages.

2,652,470
PUSH BUTTON
Hugh W. Batcheller, Newton, Mass.
Application October 4, 1950, Serial No. 188,358
1 Claim. (Cl. 200—172)

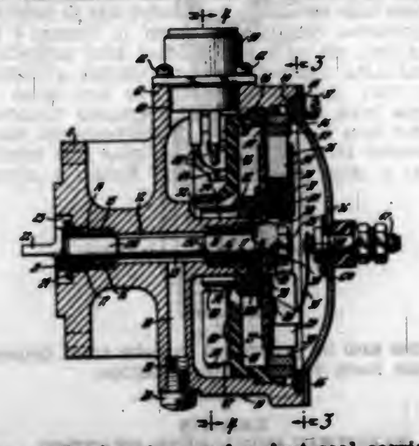


In a multiple push-button switch, a push-button having a rectangular shank, two parallel spaced extensions at the rear end of the shank projecting in the same direction as the shank, the outer faces of said extensions being outwardly offset from the corresponding faces of the shank to form shoulders, a wedge element at the rear end of the shank in the space between said extensions, and a friction element loosely attached to said push-button, said element consisting of an arcuate strip of spring material against the outer face of one of said extensions, said strip having short parallel end portions bearing respectively against the shoulder and rear end of said extension.

2,652,471
REMOTE ELECTRICAL DRIVE UNIT
Henry H. Harada, Grand Blanc, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 19, 1951, Serial No. 247,205
10 Claims. (Cl. 201—55)

1. In a remote electrical drive unit of the class described, a one-piece generally cylindrical housing including an axially central stem axially bored and counterbored from opposite ends, spaced bearings in said counterbores, a driven shaft smaller in diameter than the axial bore through said central stem rotatably mounted through said bearings, oppositely disposed oil seals located outwardly from said bearings forming a lubricant reservoir therebetween, the said housing having a capped filler bore therein communicating with the said lubricant reservoir, a flange on one end of the said driven shaft terminating in a key engageable with means for rotating the said driven shaft, a rotor assembly

fixed on the other end of the said driven shaft, a washer disposed around the driven shaft and over the axial end of the said axially central



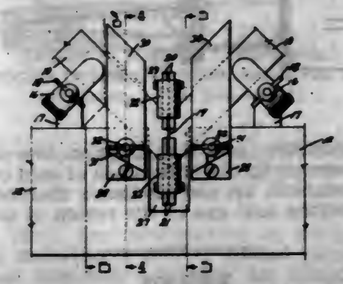
stem of the housing, and a dust seal carried by the said rotor overlapping the said washer and the adjacent peripheral end of the said axially central stem.

2,652,472
WELDING ELECTRODE HOLDER
Ernest W. Huebner, Detroit, Mich., assignor to Weiger Weed & Company, a corporation of Michigan
Application September 28, 1951, Serial No. 248,727
4 Claims. (Cl. 219—4)



1. A welding electrode holder comprising a holder tube tapered inwardly at its lower end to receive an electrode, a knockout tube positioned within said holder tube, a knockout plunger positioned above said knockout tube with its lower end engaging the upper end of said knockout tube whereby force applied downwardly against said plunger is transmitted directly against said knockout tube, a water tube positioned within said knockout tube, the upper edge of said water tube being slidably positioned within said plunger, a ferrule rigidly secured to the outer surface of said water tube to space it from said knockout tube, the upper edge of said ferrule being spaced slightly below the lower end of said plunger, and compressible sealing means between the upper edge of said ferrule and the lower end of said plunger.

2,652,473
ELECTRIC BUTT WELDING
Carroll G. Gordon, Pasadena, Calif., and Robert R. Cameron, Denver, Colo.
Application February 12, 1952, Serial No. 271,284
6 Claims. (Cl. 219—10)



2. A method of welding the abutting extremities of two metallic bars together comprising: connecting the abutting extremities of both bars to one pole of an electric circuit; placing a relatively thin metallic insert between the abutting extremities; connecting the other pole of said electric circuit to the insert; thence passing an electric current through said circuit until the insert fuses and breaks the circuit.

2,652,474
METHOD OF HEATING OPPOSED EDGES OF ELONGATED MEMBERS
Phillips Nielsen Sorensen, Cleveland, Ohio, assignor to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio
Application November 24, 1952, Serial No. 322,179
16 Claims. (Cl. 219—10)

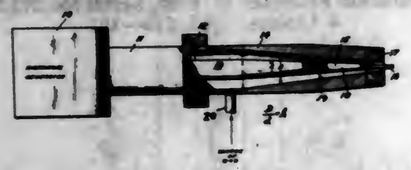


8. The method of pressure welding a pair of elongated metallic edges of generally thin metallic material comprising disposing said edges in close-spaced parallel relationship; providing a high-frequency inductor having a main conductor in close-spaced parallel relationship to said edges; progressively moving said edges relative to said inductor and inducing high-frequency currents to flow in said material with the current through the thickness of the material at any one point being always in the same direction at any one instant and the currents immediately adjacent said edges being very highly concentrated and the return currents remote from said edges being relatively unconcentrated to progressively and very rapidly heat said edges to the pressure-welding temperature and, after said edges are heated, progressively bringing said edges into pressure-welding engagement.

2,652,475
MICROWAVE APPARATUS
Percy L. Spencer, West Newton, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application June 7, 1950, Serial No. 166,736
2 Claims. (Cl. 219—15)

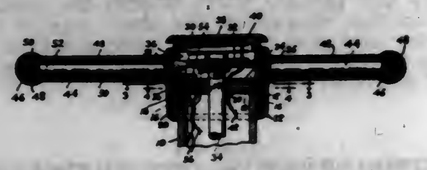
1. In combination: a source of microwave electromagnetic energy; a source of dissociable gas;

and a transmission line, including inner and outer coaxial conductors, coupled to said source of energy and coupled to said source of gas; said inner conductor extending out beyond the end of said



outer conductor; said transmission line conveying said energy to the outer ends of said conductors to establish an arc discharge therebetween, and conveying said gas to the region of said discharge.

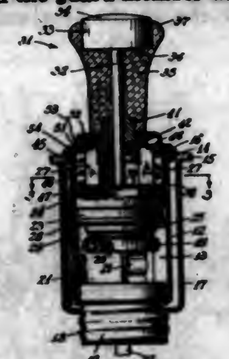
2,652,476
ELECTRICALLY HEATED STEERING WHEEL
Louis Thomas Di Langiano, Bronx, N. Y.
Application March 18, 1952, Serial No. 277,258
2 Claims. (Cl. 219—19)



1. Means for supplying electrical current to a steering wheel having a circumferential resistance element and a hub enclosing the upper end of and rotatable upon an associated steering column housing, comprising: a pair of coplanar, annular contact bars arranged in spaced, concentric relation; a stationary, flat support disc for said bars mountable on said housing and proportioned for enclosure within the hub; a rotating disc lying in a plane paralleling that of the first disc and enclosed within said hub for rotation therewith; and contact terminals spaced radially of said rotating disc and extending into slidable contact with the respective contact bars, said terminals being electrically connected to opposite ends of said element and said bars being adapted for electrical connection in circuit with a source of electricity.

2,652,477
CIGAR LIGHTER
Arthur A. Johnson, Bridgeport, Conn., assignor to Automatic Devices Corporation, Bridgeport, Conn., a corporation of Connecticut
Application October 19, 1949, Serial No. 122,198
19 Claims. (Cl. 219—32)

1. An igniting unit for an electric cigar lighter having a holding device, comprising a knob; means, including an igniting unit body, mounting the knob for movement on the holding device between projected and depressed positions, said means providing for complete removal of the knob and body from the holding device; a heating element on the igniting unit; means for closing a circuit through the heating element in response to movement of the knob to depressed position; guard means carried by the igniting unit, extending along said knob in the direction of movement thereof and having a member adjacent the most-projected portion of the knob; and means connecting the guard means to the holding device to prevent movement thereof whereby an object moving against the most-projected portion of the knob and overlapping both the knob and the guard member will engage said



member and be prevented thereby from depressing the knob to energizing position.

2,652,478
ELECTRIC INDUCTION HEATING APPARATUS
John Christie Howard, Weybridge, England, assignor to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio
Application January 5, 1950, Serial No. 137,000
In Great Britain January 7, 1949
1 Claim. (Cl. 219—47)



In apparatus for heating continuous lengths of moving metallic strip including a rotatably mounted drum over which the strip to be heated is adapted to pass and having an axis of rotation, a high-frequency inductor in operative relationship with said drum and said strip on one side of said axis and a pair of other rotatably mounted drums under which the strip to be heated is adapted to be passed and each having an axis of rotation, the axes of rotation of said other drums being positioned on a side of the axis of rotation of said first mentioned drum opposite from that of said inductor, said inductor having an arcuate concave surface having a center of curvature approximating that of the axis of rotation of said drum, the arcuate face of the inductor being in slightly spaced relationship with the surface of said drum, the improvement which comprises said drum being comprised of an outer steel shell mounted on a ceramic insulating inner member, said outer shell being inductively heated by the high-frequency inductor to elevated temperatures whereby to assist in the transfer of heat to the strip by both conduction and radiation.

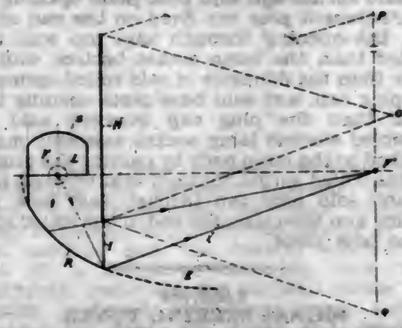
2,652,479
COMBINED FLASHLIGHT AND MIRROR SUPPORT
Albert A. Wilson, Chicago, Ill.
Application January 27, 1950, Serial No. 140,916
1 Claim. (Cl. 240—2.18)

A flashlight mirror support comprising a handle bar consisting of a pair of telescopically arranged tubular sections, said tubular sections being noncylindrical to prevent rotation of one with respect to the other, a flashlight carrier attached at the outer end of one of said sections and adapted to hold a flashlight substantially parallel to said handle bar with its switch accessible, a mirror carrier pivotally attached to the outer end of the other section, said pivot extending transversely of the last said section, a rack disposed within the inner of said tubular sections and adapted for longitudinal movement therein, a pinion meshed to said rack, a trans-
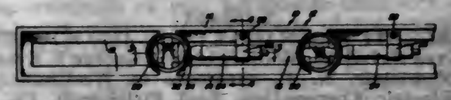


verse stem carrying said pinion and journaled for rotation in said other section, said one section having a longitudinally extending slot to permit passage of said stem, an operating knob secured to said stem, and a link interconnecting the rack and the mirror carrier, whereby with one hand the operator can rotate the knob to advance or retract the rack to tilt the mirror carrier or move the knob longitudinally to change the length of said handle bar, while the other hand grasps the flashlight to support the device and is in a position to operate the switch thereon.

2,652,480
COMBINED ILLUMINATOR AND REFLECTOR
Philippe Charles Duval, Paris, France
Application June 17, 1948, Serial No. 33,587
In France July 21, 1947
2 Claims. (Cl. 240—4.2)



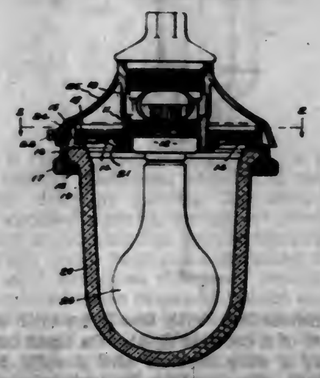
2. A combined illuminator and mirror comprising a mirror element having a forward reflecting face, a light source disposed behind the back of the mirror, reflecting surfaces at the side of the light source, and a zone defined by shield means at the periphery of the lower portion of the mirror permitting the free passage of luminous rays from the light source, said reflecting surfaces being portions of ellipsoids of revolution having one focus at the light source and the other focus in front of said mirror element.

2,652,481
ILLUMINATED LEVEL
Arthur H. Hall, La Crosse, Wis.
Application October 31, 1950, Serial No. 193,976
1 Claim. (Cl. 240—6.44)



In a level, the combination of an elongated housing including a pair of spaced parallel longitudinal members affording an elongated recess and having relatively thin longitudinal webs projecting inwardly into said recess, said housing also including an annular vial enclosure disposed between said members in said recess and provided with an aperture coaxial with the longitudinal axis of the housing, and a flashlight mounted in the recess of said housing exteriorly of said enclosure and including a bulb disposed in said aperture whereby to illuminate vials in the enclosure, and means for removably mounting said flashlight in said recess, said means comprising a resilient clip secured to the web of one of said longitudinal members and frictionally engaging the flashlight, said clip including a flat arm section secured solely at one end thereof directly to one of said webs and projecting transversely into said recess, the free end of said arm forming a hook having a narrow entrance portion and a wide body portion for clamping the body of the flashlight therein, the side wall edges defining said aperture being tapered and conforming to the shape of the head of said flashlight.

2,652,482
VENTED EXPLOSION-PROOF LIGHTING UNIT
Carl H. Bissell, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York
Application April 10, 1950, Serial No. 154,968
1 Claim. (Cl. 240—11.2)



An explosion proof lighting unit comprising a cylindrical body having an end portion threaded externally and internally, a lamp receptacle threaded into the threaded end of the body, a flat annular supporting member threaded on the body and extending radially therefrom, the periphery of said supporting member being threaded ex-

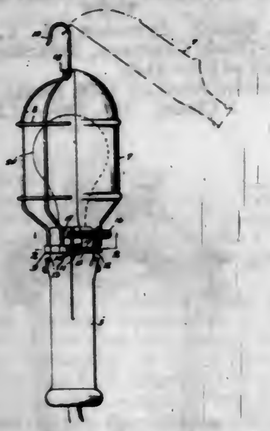
ternally, a globe supporting ring threaded on the periphery of said supporting member, a globe detachably secured to said ring in flame tight relation thereto, said body being formed with an integral canopy portion extending radially over said supporting member and having a depending flange encircling said globe ring in spaced relation thereto, said supporting member being formed with a plurality of porous flame arresting vents formed of sintered material.

2,652,483
ARCUATE DISCHARGE LAMP AND SOCKET
Alfred H. Laidig, Bloomfield, and George S. Evans, Montclair, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 19, 1948, Serial No. 21,966
15 Claims. (Cl. 240—51.12)



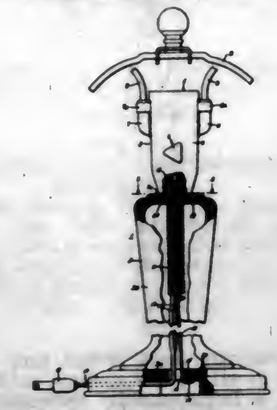
1. A discharge lamp having an arcuate tubular envelope, a mount at each end thereof, each mount comprising a glass flare terminating in an inwardly-directed press lying in a plane approximately tangent to the axis of said envelope and having support members extending inwardly through, and lying in the plane of, said press, and a filament carried on said support members, said support members emerging from said press in a common plane at an angle to said press plane in the direction of envelope curvature, whereby the supported filament is more nearly centered in the envelope.

2,652,484
TROUBLE LIGHT GUARD
Forrest Glenn Graves, Glendale, Calif.
Application June 7, 1950, Serial No. 166,686
1 Claim. (Cl. 240—54)



The combination with the light bulb and light bulb socket of a trouble light, of a light bulb guard comprising a wire section and a solid reflecting section, said wire section including a clamp to which said wires are connected, said clamp adapted to be secured around said light bulb socket of the trouble light, a supporting hook formed on said wire section, extending a substantial distance beyond the end of the wire section, an apertured ear extending from one end of the solid reflecting section through which said hook extends pivotally and slidably connecting the solid reflecting section to the wire section, a coiled spring having hooks at its ends, hooked around the wires of the wire section and stretched around the solid reflecting section, removably securing the sections of the guard around a light bulb.

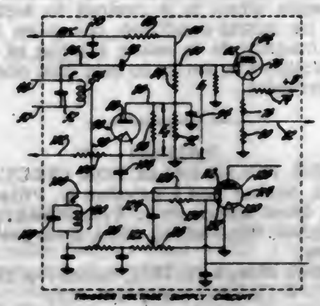
2,652,485
ELECTRIC PORTABLE LAMP AND LAMP SOCKET ASSEMBLY
George B. Benander, Oaklawn, R. I., assignor, by mesne assignments, to General Electric Company, a corporation of New York
Application August 30, 1950, Serial No. 182,243
2 Claims. (Cl. 240—81)



1. In an electric portable lamp, a lamp body comprising a base plate having a base opening and a tubular standard having a top wall with an opening aligned with said base opening, and a pre-assembled electric lamp socket assembly mounted thereon comprising a lamp socket having a bottom wall positioned against said top wall provided with a wiring opening in alignment with said top wall opening, a coiled spring fastened in said wiring opening which projects down through said top wall opening and at its lower end is detachably connected to said base plate, said spring being of a length compared to the length of said standard that when attached to the base plate it is tensioned to hold said lamp socket against said top wall, an electric cord attached to said lamp socket which extends through said wiring opening, said spring and said base plate opening, and an attachment plug cap fixed on the end of said cord, the opening through said top wall being smaller than the lamp socket bottom wall and larger than the diameter of said coiled spring and said plug cap, and said base plate opening being larger than the plug cap whereby said pre-assembled electric lamp socket assembly may be attached to the lamp body by passing the plug cap and the coiled spring through said top wall opening and said plug cap through said base plate opening and attaching the end of the coiled spring to the base plate.

2,652,486
SIGNAL SEEKING TUNER
James H. Guyton, Kokomo, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 22, 1949, Serial No. 106,223
5 Claims. (Cl. 250—20)

1. In electrical systems in which a control voltage of varying amplitude is developed on a conductive line, a pair of rectifiers of similar characteristics, each having an anode and a cathode, the anode of one rectifier being connected to the conductive line and the cathode of the other being so connected, biasing means connected in series with one of the rectifiers to prevent it from conducting until the voltage on the conductive line connected to that rectifier exceeds the biasing means, resistors of substantially equal value connected respectively, one across the series circuit of the one rectifier and biasing means,



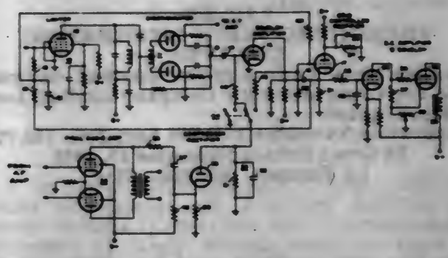
and the other across the other rectifier so that the voltages developed thereacross by current flow through the associated rectifier by a common signal on the conductive line will be equal above the biasing voltage, conductive means connecting the resistors serially so that the voltages developed thereacross are of opposed polarities, and output means connected to the resistors so that a voltage of constant amplitude will be provided on the output means by variable control voltages of any amplitude on the conductive input line that exceed the bias means.

2,652,487
CONSTANT BAND WIDTH COUPLING CIRCUIT FOR TELEVISION RECEIVER TUNERS
Emmery J. H. Bussard, Cincinnati, Ohio, assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware
Application July 21, 1950, Serial No. 175,057
3 Claims. (Cl. 250—20)



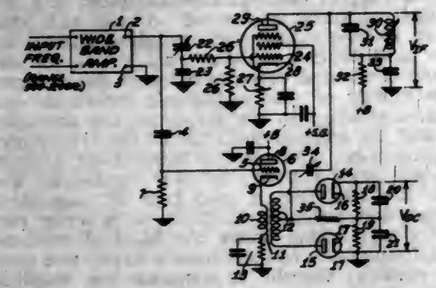
1. A band pass selector network tunable throughout the standard television broadcast band for inter-coupling the anode circuit of a radio frequency amplifier tube having an anode and cathode and the control electrode circuit of a frequency-changing tube having a control electrode and cathode while maintaining a broad acceptance band sufficiently wide to pass the video and synchronizing signal components comprising two magnetically isolated branches, each of said branches consisting of the combination of an adjustable inductor and a variable inductor cumulatively connected, one of said combinations resonating with the inherent capacitance provided by said anode circuit and the other of said combinations resonating with the inherent capacitance provided by said control electrode circuit to provide double tuned band-pass selection, means for tuning each of said variable inductors in unison by short-circuiting portions thereof, means for radio-frequency connecting one terminal of each of said variable inductors to a low potential terminal connected to said cathodes, and an H-type capacitance coupling circuit between said branches comprising a pair of capacitors connected in series between the remaining terminals of said adjustable inductors and in series relation to the anode of the amplifier tube and the control electrode of the frequency-changing tube, a series combination of a third capacitor and a fifth inductor connected between the junction of said pair of capacitors and said low potential terminal as a series resonant circuit tuned above the band of received signal frequencies to constitute a capacitive coupling element thereby to decrease the coupling between the two resonant branch circuits as said selector network is tuned to pass higher frequency bands, thus tending to maintain an acceptance band of uniform width throughout all television channels, said third capacitor having a terminal directly connected to said junction, a coupling plate connected to said three capacitors, and a fourth capacitive coupling parameter, in shunt with said series resonant circuit, comprising the capacitance between said low potential terminal and the coupling plate so interconnecting plates of the first three capacitors.

2,652,488
SQUELCH CIRCUIT
Raymond F. Smeltzer, Robert B. Edwards, Rollo C. Baker, Jr., and Samuel D. Burton, Baltimore, Md., assignors to Bendix Aviation Corporation, Towson, Md., a corporation of Delaware
Application December 29, 1950, Serial No. 203,472
11 Claims. (Cl. 250—20)



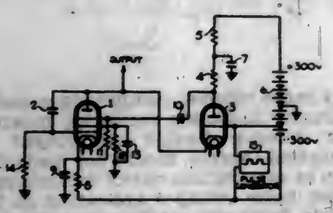
1. In a radio receiver comprising a muting device, a limiter including rectifying means and a balanced detector having the output of said limiter applied thereto, means for controlling the operation of said muting device comprising means amplifying noise voltages appearing at the output of said balanced detector, means rectifying said amplified noise voltages, means applying said rectified noise voltage to said muting device in a sense to cause said muting device to mute said receiver, and means deriving the envelope of the audio output of said receiver and applying said envelope to said amplifying means in a sense to reduce the gain thereof, the first named means rectifying signal voltage applied to the input of said limiter and applying said rectified signal voltage to said noise voltage rectifying means in a sense to reduce the conductivity thereof.

2,652,489
DISCRIMINATOR CIRCUITS
Harris Alexander Robinson, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application June 24, 1949, Serial No. 101,079
2 Claims. (Cl. 250—27)



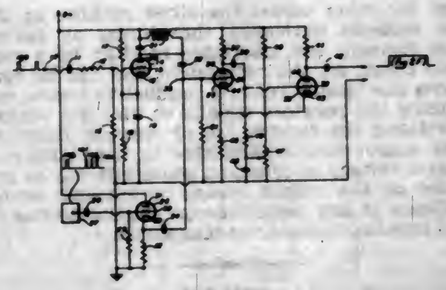
1. In a frequency variation response network, an aperiodic wide band coupling transformer having its primary winding connected to a source of alternating potential of predetermined mean frequency, a resonant circuit connected to said source and having one end thereof at equivalent ground potential, said circuit being resonant at said mean frequency, a pair of diodes having corresponding electrodes connected one to each respective end of the secondary winding of said transformer, a pair of load resistors connected in series between the remaining electrodes of said diodes, means connecting one of said remaining electrodes to ground through a connection devoid of concentrated impedance, a resistor connected between the common junction of said pair of resistors and the mid-point of said secondary winding, and a capacitor connected between the mid-point of said secondary winding and the high alternating potential end of said resonant circuit, said resistor and said capacitor together constituting a 90° phase-shifting network.

2,652,490
THERMIONIC VALVE INTEGRATING CIRCUITS
Maurice Moise Levy, London, England, assignor to The General Electric Company Limited, London, England
Application November 15, 1950, Serial No. 195,773
In Great Britain November 17, 1949
6 Claims. (Cl. 250—27)



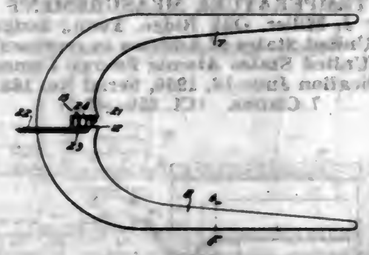
1. A thermionic valve integrating circuit comprising: a thermionic valve having at least a cathode, an electron-collecting electrode and a control grid; means for connecting a source of current to be integrated between said control grid and cathode; a condenser connected between said electron-collecting electrode and control grid; a unidirectional conducting device having at least a pair of electrodes, means connecting a first one of said pair of electrodes to said electron-collecting electrode, the permissible direction of conventional current flow through said device being towards said first one of said pair of electrodes, the voltage applied to the second one of said pair of electrodes controlling the flow of current through said device to the first one of said pair of electrodes, means for biasing said second one of said pair of electrodes so as normally to prevent the flow of current through said device to the first one of said pair of electrodes; a generator of voltage pulses; and means for applying a pulse derived from said generator to said second one of said pair of electrodes in a positive sense when it is desired to restore the circuit to its initial condition, the pulse being of sufficient magnitude to cause a pulse of current to flow through the device to said first one of said pair of electrodes.

2,652,491
COLOR PULSE SELECTOR CIRCUIT
Richard A. Maher and Christian C. Pfitzer, Cincinnati, Ohio, assignors to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware
Application March 17, 1951, Serial No. 216,142
3 Claims. (Cl. 250—27)



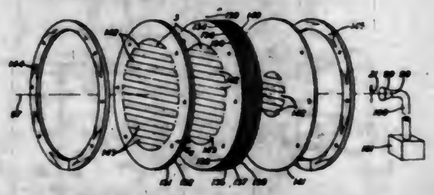
3. In a pulse selector circuit the combination comprising a composite source of positive going pulses, said pulses comprising a first group of pulses occurring intermittently at a given pulse repetition rate, each pulse having the same time phase position it would have had if the pulse train were not intermittent, a second group of pulses occurring intermittently during portions of the periods when said first group of pulses are absent and having a repetition rate twice that of said first group of pulses, the leading edges of alternate pulses of said second pulse group occupying the same time phase position that the leading edges of said first group of pulses would have occupied had they been present, a third group of pulses, each pulse of the third pulse group having a leading edge spaced equally between the leading edges of two adjacent pulses of said second pulse group, a source of non-intermittent wave voltage having the same frequency as said second group of pulses with alternate negative peaks occurring in time phase with the leading edges of said first group of pulses, differentiating means having input terminals connected to said pulse source and having output terminals, means connected to said wave source and said differentiating means output for additively combining said wave voltage and the output from said differentiating means, and a threshold biased selecting means having an input connected to the output of said combining means for discriminating against all signals having an amplitude less than the highest positive amplitude of the combined signal.

2,652,492
DIPOLE ANTENNA AND FEED ARRANGEMENT THEREFOR
John P. Shanklin, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application March 5, 1949, Serial No. 79,771
16 Claims. (Cl. 250—33)



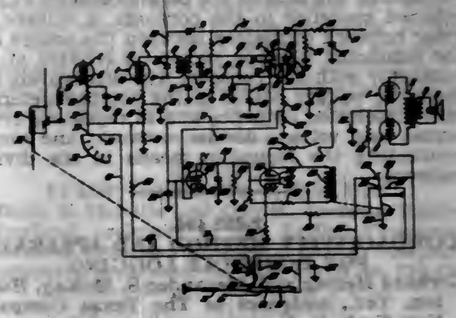
1. An antenna in the form of an elongated conductive radiating member having a substantially greater length than width, and means defining a notch in an edge of said member, said notch having a depth and width which are only a small fraction of the length of said member whereby said notch has a substantial inductive reactance at the operating frequency of the antenna, and means for connecting the opposite side edges of the notch to a feed line, said notch constituting a coupling impedance between said line and said radiating member and having in itself substantially negligible radiating efficiency at the radiating frequency of said member.

2,652,493
UNIPOLARIZED WAVE REFRACTOR
Winston E. Kock, Basking Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Original application May 16, 1947, Serial No. 748,448, now Patent No. 2,577,619, dated December 4, 1951. Divided and this application May 10, 1951, Serial No. 225,547
11 Claims. (Cl. 250—33.63)



1. A passive refractor for retarding linearly polarized electromagnetic waves within a predetermined range of frequencies and having predetermined directions of polarization and propagation, said refractor having a principal axis and a first and a second minor axes, each of said three axes being perpendicular to the other two, said refractor comprising a plurality of plane panels arranged along said principal axis, said panels being perpendicular to said principal axis and parallel to each other, each of said panels comprising a plurality of parallel portions, each of said portions having a substantially uniform width parallel to said first minor axis which is less than one-half wavelength of the highest frequency to be employed, a substantially uniform length parallel to said second minor axis which is large with respect to said width, and a substantially uniform thickness parallel to said principal axis which is small with respect to said width, alternate ones of said plurality of parallel portions of each said panel having substantially identical width dimensions and including sufficient electrically conductive metal in a solid state to totally reflect linearly polarized, electromagnetic waves within said frequency range having a direction of polarization parallel to said first minor axis, the portions intermediate said alternate portions of said plurality of parallel portions of each said panel having substantially identical width dimensions and being of dielectric material substantially freely passing linearly polarized electromagnetic waves within said frequency range having a direction of polarization parallel to said first minor axis, adjacent successive panels along said principal axis having the reflecting portions of one panel in alignment with the non-reflecting portions of the other in the direction parallel to said principal axis, whereby said refractor will have a large refractive index for said linearly polarized electromagnetic waves propagated through said refractor when said principal axis is parallel to said predetermined direction of propagation of said waves and said first minor axis is parallel to said predetermined direction of polarization.

2,652,494
SIGNAL SEEKING TUNER
James H. Guyton, Kokomo, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 1, 1950, Serial No. 198,643
9 Claims. (Cl. 250—40)



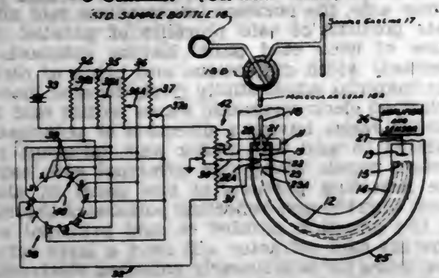
1. In radio receiving means having radio and audio amplifying and detecting sections and means to tune the receiver over a predetermined frequency spectrum, driving means to move the tuning means in either direction over said spectrum, conductive means connected to the detector section upon which a voltage is developed upon receipt of an incoming signal, a second conductive means upon which a voltage is developed in inverse phase connected to said detector section, time delay means in circuit with said second conductive means, relay means controlling said driving means, an electron tube having a cathode, control grid and anode, said first conductive means being connected to said grid, means connecting the cathode to said time delay means, means connecting said anode to the relay means and to the time delay means including a switch, said time delay means maintaining energization of said relay means for a period after initial energization to insure that the driving means controlled thereby will move on to the next station.

2,652,495

PROCESS MONITOR MASS SPECTROMETER MINIMIZING HIGH-VOLTAGE HISTORY EFFECTS

Harold W. Washburn, Pasadena, Calif., assignor to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California

Application December 17, 1949, Serial No. 133,628
8 Claims. (Cl. 250—41.9)



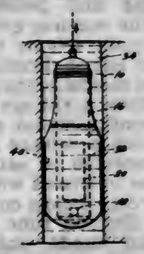
1. In a mass spectrometer for continuous analysis of preselected constituents in a sample stream including an ionization chamber, analyzer chamber, means for propelling ions from the ionization chamber through the analyzer chamber, means for establishing a magnetic field across the analyzer chamber, a collector electrode and focussing means for focussing ions on the collector electrode, a voltage supply circuit comprising a source of D. C. voltage, a number of potentiometers exceeding by one the number of preselected constituents and connected in parallel across the source, a switch having a plurality of contacts and a single movable contractor, means connecting the taps of the potentiometers in preselected sequence to the contacts, a voltage divider network connected between the source and the contactor whereby successive contact of the contactor with the contacts will successively impress the voltage output of the potentiometers in said preselected sequence and in repeating cycles across said voltage divider network, and means connecting the focussing means to the divider network.

2,652,496

RADIOACTIVITY METHOD AND APPARATUS FOR BOREHOLE LOGGING

Gerhard Herzog and Alexander S. McKay, Houston, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

Application March 28, 1950, Serial No. 152,487
4 Claims. (Cl. 250—43.5)



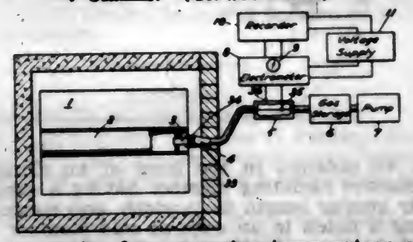
1. A device for logging a bore hole traversing subsurface formations and containing a fluid comprising an elongated instrument housing adapted to be passed through the hole, a cable on which said housing is suspended from the surface, a source of primary radiation and a detector of secondary radiation in the lower portion of said housing, a flexible impervious sheath attached to said housing near its upper end and surrounding the lower portion of the housing, and a quantity of a fluid-like substance in said sheath, said substance being substantially non-hydrogeneous and having a low capture cross-section for slow neutrons.

2,652,497

TEMPERATURE MEASUREMENT

Arthur J. Miller, Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application June 16, 1950, Serial No. 168,636
7 Claims. (Cl. 250—43.5)



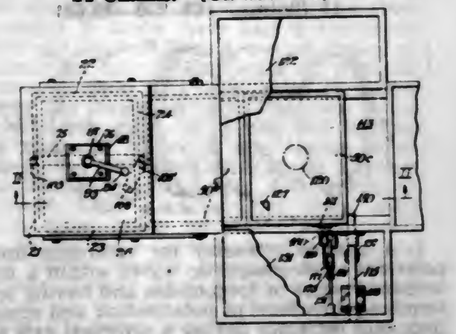
1. Apparatus for measuring temperature comprising, in combination, a radioactive gas enclosed in a permeable container, for exposure to said temperature to be measured, means for collecting that portion of said gas which diffuses through the walls of said container, and means for determining the rate of diffusion of said gas comprising means for leading said gas from said collecting means and means for monitoring the radioactivity of said gas, the intensity of radiation indicated by said monitoring means being dependent upon the temperature of said container.

2,652,498

APPARATUS FOR RAPID X-RAY EXPOSURES

Walter B. Snook and Rudolf A. Isenberg, Palo Alto, Calif., assignors to W. B. Snook Mfg. Co., Inc., Palo Alto, Calif., a corporation of California

Application January 13, 1949, Serial No. 70,684
14 Claims. (Cl. 250—66)



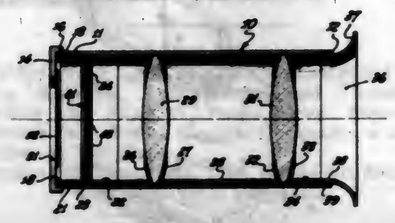
1. In a mechanism for unloading photographic cassettes from a magazine, the combination with a rotatable horizontal arm of a pair of toggle cams pivotally supported on each end of the said arm for movement along a circular path, each of the said cams having a roller thereon adapted to coact with the uppermost cassette in the said magazine for imparting a predetermined lateral movement thereto, and a cam plate disposed above a predetermined portion of the said cam and adapted to terminate the rolling engagement of the said roller with the said cassette when the said lateral movement thereof has been completed.

2,652,499

ALPHA RADIATION DETECTOR

George A. Argabrite, North Hollywood, Calif., assignor, by mesne assignments, to Pacific Transducer Corporation, Los Angeles, Calif., a corporation of California

Application December 20, 1949, Serial No. 134,052
3 Claims. (Cl. 250—77)



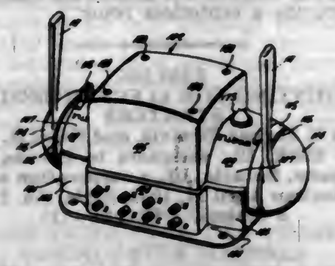
1. A device for optically detecting alpha radiation from a radioactive sample comprising: a housing having an open detecting end and an open viewing end; a sheet of transparent material carried by said housing and extending transversely of the housing adjacent the detecting end thereof; a layer of phosphor substance carried on the surface of said sheet facing said detecting end; a layer of virtually transparent, substantially contiguous light-refracting particles carried on the surface of said sheet facing said viewing end, said particles having diameters of less than 0.05 inch; and a lens spaced from said layer of particles and carried by the housing adjacent said viewing end having a field of view including said light-refracting particles.

2,652,500

VARIABLE VOLTAGE TRANSFORMER

Joseph L. Bonanno, Madison, N. J., assignor to The Lionel Corporation, New York, N. Y., a corporation of New York

Application October 8, 1949, Serial No. 120,269
17 Claims. (Cl. 307—2)



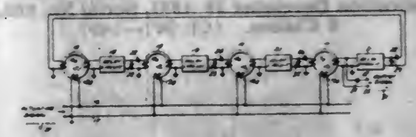
1. A transformer having an elongated, upwardly opening housing member, a coil-core assembly secured centrally in the housing member, said assembly having at the bottom thereof a primary coil and at the top thereof a secondary coil having exposed side contact faces extending transversely of the housing, each end of the housing having along a horizontal axis normal to the faces of the secondary coil and below such faces a bearing seat, a tube insulatedly supported in each bearing seat, and carrying a contact movable over the adjacent secondary coil face, a shaft insulatedly supported in each tube and carrying a contact movable over the adjacent coil face, insulated operating handles for the tubes and shafts beyond the ends of the housing, secondary leads connected to the shaft and tube, output binding posts carried by the housing, one of which is connected to the secondary and the others to the secondary leads, and a cover which engages the housing and encloses the coil-core assembly, tubes, shafts, leads and contacts, the handles being beyond the ends of the cover.

2,652,501

BINARY MAGNETIC SYSTEM

Volney C. Wilson, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Continuation of application Serial No. 238,983, July 27, 1951. This application August 8, 1952, Serial No. 303,275
15 Claims. (Cl. 307—88)



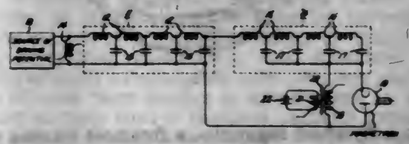
1. A magnetic system comprising a plurality of magnetic cores; a first, second, and third electrical winding on each of said cores; electrical circuit connections between the second winding on one of said cores and the third winding on another of said cores; said connections including means for transmitting an electrical signal from said second winding to said third winding only when the flux direction within the core of said second winding changes from a predetermined flux direction to the other flux direction in response to an actuating signal applied to said first windings; said transmitted signal causing magnetic flux within the core of said third winding to be oriented in said predetermined flux direction; said connections further including means for providing a time delay between said actuating signal and said transmitted signal, and means for preventing the transmission of electrical signals from said third windings to said second windings.

2,652,502

PULSE GENERATING CIRCUIT

William S. Melville and Guy R. Jackson, Rugby, England, assignors to The British Thomson-Houston Company Limited, a British company

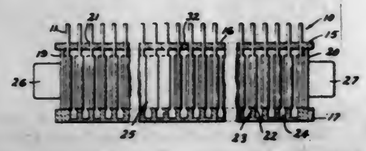
Application September 20, 1952, Serial No. 310,624
In Great Britain September 5, 1951
5 Claims. (Cl. 307—106)



3. In combination, an energy-storage device having input and output circuits, a source of charging potential coupled to said input circuit of said device for charging said device during predetermined intervals, a load impedance coupled to said output circuit, a saturable-reactor-type switching device coupled to said input circuit of said energy-storage device and effecting a relatively low shunt impedance at instances terminating each of said predetermined intervals, thereby causing said energy-storage device to discharge into said load impedance, a saturable reactor coupled in shunt relation with said load impedance and having a high impedance in response to energizing currents within a first operating range of magnitudes and a low imped-

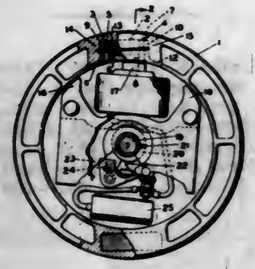
ance in response to energizing currents within a second operating range of magnitudes, and means for establishing a quiescent operating condition for said saturable impedance at a point intermediate said first and second ranges of magnitudes of energizing currents so that said low impedance is effected in response to charging of said energy-storage device and said high impedance is effected in response to discharge of said energy-storage device.

2,652,502
THERMOELECTRIC GENERATOR
Herschel G. Pack, Santa Barbara, Calif.
Application December 20, 1951, Serial No. 262,571
8 Claims. (Cl. 307—149)



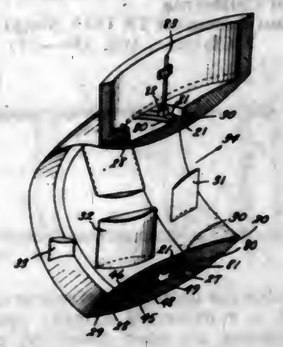
1. A thermo-electric generator comprising a vessel, thermo-electric units stacked in spaced relation in said vessel, a conductive medium interposed between adjacent of said units and in contact therewith, and means for causing said medium to alternately move into and out of contact with said adjacent units.

2,652,504
FLYWHEEL MAGNETO
George E. Pinter, Cleveland, Ohio, assignor to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio, a corporation of Delaware
Application August 4, 1951, Serial No. 240,303
1 Claim. (Cl. 310—42)



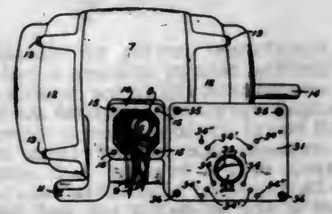
In a flywheel magneto, a flywheel having a recess in the inner face thereof, a core structure, a self-contained field structure unit comprising a pair of circumferentially spaced pole shoes and a relatively short bar magnet of high coercive force therebetween, said magnet being of greater length circumferentially than the space between said pole shoes, each of the pole shoes comprising a pair of solid substantially L-shaped strips of metal extending axially of the flywheel to the full width of the magnet with corresponding legs stacked against a pole face of said magnet and the other legs extending in opposite directions circumferentially of the flywheel, said field structure being formed into a self-contained unit that is adapted to be inserted and installed as a unit in said flywheel and means for effecting relative rotation between the core and field structures.

2,652,505
INVERSE ROTOR
Rudolph A. Matheisel, Tilton, N. H.
Application April 28, 1950, Serial No. 158,777
7 Claims. (Cl. 310—67)



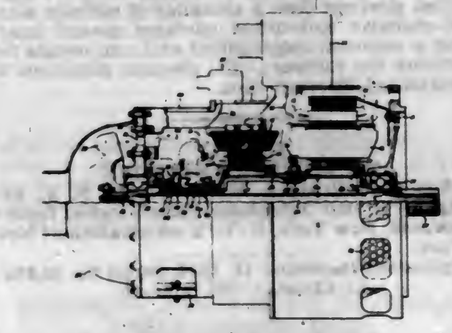
1. A streamlined dynamoelectric machine comprising an annular housing having a streamlined outer surface and having an annular channel in its inner surface, an annular rotor having its margins journaled in said channel and its inner surface flush with the inner surface of the housing to form therewith a streamlined throat, the outer surface of the rotor being spaced from the bottom of the channel to provide space for stator and rotor poles separated by the usual air-gap, means in said space for energizing said poles, means for conducting electric current to and from said last named means, a rotor retaining ring coaxial with and forming one end of said housing and having its inner surface forming part of said throat, a wearing ring between the rotor and said retaining ring and having an inner surface flush with and a continuation of the inner surface of the rotor and retaining ring, and impeller blades projecting generally radially inward from the inner surface of the rotor but terminating short of the axis of the rotor whereby to provide a centerless rotor.

2,652,506
MOUNTING FOR ELECTRIC MOTOR STARTERS
William C. Furnas, Batavia, and Nobel H. Koertge, Glen Ellyn, Ill., assignors to Furnas Electric Company, Batavia, Ill., a corperation of Illinois
Application April 11, 1952, Serial No. 281,758
3 Claims. (Cl. 310—71)



1. In combination with an electric motor having a conductor outlet surrounded by an upright pad provided with tapped holes spaced around the outlet, a mounting plate having a relatively large medial opening alineable with said motor outlet and surrounded by an outwardly projecting annular flange forming a horizontal tubular passage for extension of the motor conductors therethrough and being provided about said flange with several series of holes adapted to receive attaching screws cooperable with the tapped holes of different styles or sizes of motors, a magnetic switch operable only in upright position and having a housing provided with a horizontal opening adapted to snugly receive said tubular flange and to hold the switch in upright position, and means for attaching said housing to said plate.

2,652,507
ALTERNATOR AND EXCITER COMBINATION
Irving Kalikow, Swampscott, and Chester L. Willey and John W. Poole, Lynn, Mass., assignors to General Electric Company, a corporation of New York
Application January 5, 1952, Serial No. 265,108
4 Claims. (Cl. 310—113)



1. In a dynamoelectric machine, the combination of a frame having end portions forming bearing housings, bearings in said housings, a hollow shaft having an enlarged portion adjacent one end and a smaller portion adjacent the other end and supported by said bearings, a first rotor core portion positioned on said enlarged shaft portion and having a winding, a second rotor core portion positioned on said enlarged shaft portion and having a winding, current collector members for said windings positioned on said smaller shaft portion, and electrical connections between at least one of said current collector members and at least one of said windings passing through said hollow shaft, said frame having an opening formed therein communicating with all of said current collector members.

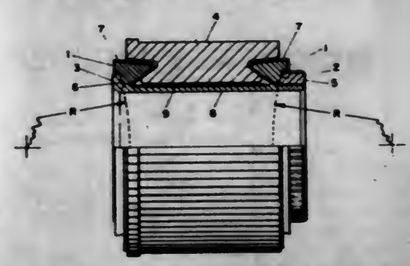
2,652,508
LOW-FREQUENCY TWO-PHASE COMMUTATOR MACHINE
Gustav Thielers and Erik Sjökvist, Vasteras, Sweden, assignors to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a corperation of Sweden
Application October 23, 1951, Serial No. 252,773
In Sweden January 13, 1951
3 Claims. (Cl. 310—172)

1. A low-frequency two-phase commutator machine comprising a stator, a rotor with a commutator, magnetizing poles on said stator, magnetizing windings on said poles, one magnetic pole of the machine including two geometrical pole cores, commutating poles on said stator, commutating windings on said commutating poles, compensating windings arranged on the stator for the compensation of the armature M. M. F. field, said compensating windings comprising two separate windings, one of which is uniformly distributed in slots in said magnetizing pole cores, the other of said compensating windings, a concentrated winding, being arranged on said magnetizing pole cores, the last-mentioned winding being so arranged as to give the same polarity to at least two successive pole cores, a coil winding



on said rotor having a coil pitch of substantially 180 electrical degrees, and series connections between said armature winding, compensating windings, and commutating windings.

2,652,509
COMMUTATOR
Stewart E. Gall, Maple Heights, Ohio, assignor to Jack & Heintz, Inc., Cleveland, Ohio, a corperation of Delaware
Application December 19, 1951, Serial No. 262,379
5 Claims. (Cl. 310—236)



1. In combination in an electric machine commutator having a hub provided at its inner end with a radially outwardly extending flange and provided at its outer end with screw threads to receive a clamping nut, a plurality of longitudinally extending commutator bars arranged circumferentially around said hub, the two ends of each of said bars having a slot therein to form an end surface that is inclined radially inwardly with respect to said bars, a pair of end clamping rings carried by said hub and between the ends of said bars and its respective flange and clamping nut and having inner faces inclined to engage and substantially match the inclined end surfaces of said bars, the outer surfaces of said clamping rings and the inner surfaces of said flange and clamping nut being inclined radially outwardly and longitudinally outwardly with respect to the ends of said bars and at such matching angles of inclination and elongated surface contact as to effectively form a component part of an arc of curvature of finite radius having a center of curvature that is external with respect to said commutator, so that a tightening of said clamping nut is adapted to clamp said clamping rings and commutator bars against longitudinal movement and to exert a radial component of force on said

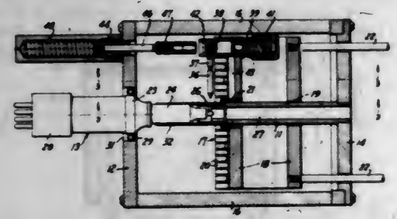
clamping rings and said commutator bars to resist radial displacement between said commutator bars and said hub.

2,652,510
GAS DISCHARGE DEVICE
Leo Raymond Landrey, Lynbrook, and Alfred Maxzel, Richmond Hill, N. Y., assignors, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission
Application October 3, 1951, Serial No. 249,554
10 Claims. (Cl. 313—54)



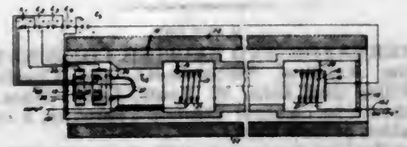
1. A gas discharge voltage regulator tube including within a hermetically sealed envelope containing an ionizable gas, an anode and a cathode, said cathode having an effective area no greater than that of the glow which the tube must support at maximum rated current.

2,652,511
HIGH-FREQUENCY GENERATOR
William R. Hewlett and Howard M. Zeidler, Palo Alto, Calif., assignors to Hewlett-Packard Company, Palo Alto, Calif., a corporation of California
Application March 6, 1950, Serial No. 147,870
6 Claims. (Cl. 315—1)



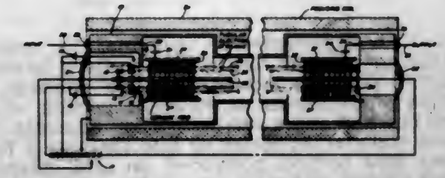
1. In a high frequency electrical generator, a reflex klystron vacuum tube having cathode, control and resonator grids and a repeller, a cavity resonator coupled to the tube for generation of high frequency, and including an outer conductor forming sides of a cavity, one end of the cavity resonator being formed by a conductive plunger adjustable longitudinally of the same to change the frequency of operation, and means carried by said plunger to suppress an undesired cavity mode, said means comprising a probe formed of material capable of dissipating high frequency energy, that end face of the plunger faced toward the interior of the cavity being formed to provide a recess serving to accommodate said probe, means mounting the probe for movement from one position in advance of the plunger and the recess for suppressing an undesired mode, to a retracted position within said recess, and means for effecting movement of said probe between said positions of the same responsive to adjustments of the plunger, said last means including a member adapted to engage and apply force to the probe to urge the same toward said retracted position responsive to advancing movement of the plunger toward the interior of the cavity to increase the frequency of operation.

2,652,512
ELECTRON GUN
Arthur V. Hollenberg, Morris Township, Morris County, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 22, 1950, Serial No. 202,189
19 Claims. (Cl. 315—1)



16. In an electron gun for producing a longitudinal electron flow, a plurality of radially electron-emissive cylindrical surfaces spaced apart along a common longitudinal axis and means for diverting the various radial electron emissions to longitudinal electron flow.

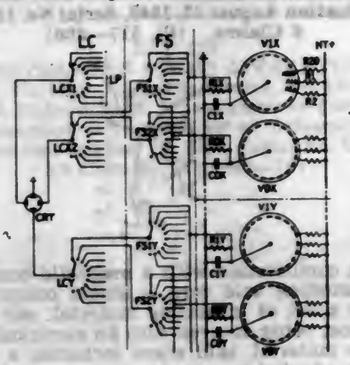
2,652,513
MICROWAVE AMPLIFIER
Arthur V. Hollenberg, Morris Plains, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 11, 1948, Serial No. 64,889
15 Claims. (Cl. 315—3)



1. A microwave amplifier which comprises an elongated enclosure defining a path of travel for charged particles, electrode means at one end of said path to direct a pair of closely coupled hollow cylindrical streams of charged particles, one stream within the other, lengthwise along said path at discretely different average velocities, whereby said streams of charged particles interact electromechanically with each other to produce gain as they progress along said path, electrode means at the other end of said path to collect substantially all of the charged particles of both of said streams, coupling means to supply a signal to be amplified to at least one of said streams, and coupling means to withdraw amplified signal energy from at least one of said streams.

2,652,514
DISPLAY ARRANGEMENT
Alan Davison, Liverpool, England, assignor to Automatic Telephone & Electric Company Limited, Liverpool, England, a British company
Application August 18, 1950, Serial No. 180,142
In Great Britain September 14, 1949
3 Claims. (Cl. 315—9)

1. Apparatus for generating varying control voltages suitable for application to the deflecting means of a cathode ray tube to cause any number of a plurality of characters to be displayed on the screen thereof comprising at least one pair of thermionic tubes of the rotating beam type each having a plurality of individual similar electrodes, and individual load impedances connected to each individual electrode, a common load impedance for each tube connected in circuit with the individual load impedances for said tube, the dimensioning of said individual load impedances being such that the current flow through said individual load impedances as they are rendered



effective successively by the rotating beam enables a varying control voltage to be obtained from each of said common load impedances and means for applying said varying control voltages to said deflecting means.

2,652,515
NEGATIVE CHARGE IMAGE TELEVISION TRANSMISSION TUBE
James Dwyer McGee, London, England, assignor to Electric & Musical Industries Limited, Hayes, England, a British company
Application December 18, 1947, Serial No. 792,576
In Great Britain December 18, 1946
3 Claims. (Cl. 315—11)



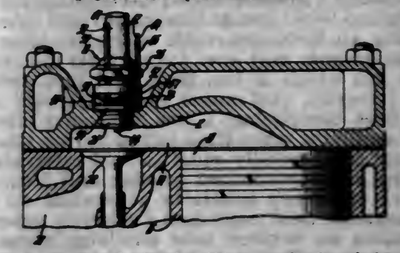
1. A circuit arrangement for generating electrical signals corresponding to a light image, including a pick-up tube having an evacuated envelope enclosing a target, elemental areas of which are capable of being charged to different potentials, a photoelectric cathode in said envelope for converting a light image into an electron image, circuit connections to cause said electron image to be projected on to said target with a velocity to form a negative charge image on said target, means for scanning said target with an electron beam having a velocity predetermined to release secondary electrons from said target, an electron pervious control electode disposed before the scanned side of said target, means polarizing said control electrode to accelerate said secondary electrons through said control electrode in numbers dependent upon the negative potential of the respective elemental areas of said target, and signal generating means responsive to secondary electrons accelerated through said control electrode for generating electrical signals representative of the potential distribution on the elemental areas of said target with an increase in the number of electrons accelerated through said control electrode corresponding to an increase in the intensity of the light image.

2,652,516
SIMPLITRON MAGNETRON
Charles V. Litton, Redwood City, Calif.
Application October 21, 1949, Serial No. 122,634
6 Claims. (Cl. 315—40)



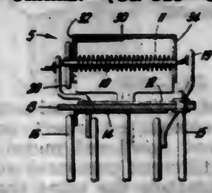
1. A magnetron, comprising a tubular metal member having means closing off each end in a vacuum-tight manner, a metal anode block telescopically fitted into said tubular metal member, said block having means defining a single cavity therein with one wall of the cavity having a magnetron gap, another anode having an edge in spaced registry with said gap, and an electron-emitting cathode centrally mounted within said cavity.

2,652,517
COMBUSTION CHAMBER PRESSURE INDICATOR
Thomas C. Van Degrift, Detroit, Charles W. Gadd, Orchard Lake, and Ralph S. Matson, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 28, 1950, Serial No. 187,396
9 Claims. (Cl. 315—58)



1. A unit for both igniting a fuel mixture in a combustion chamber an measuring pressure changes therein, said unit comprising an igniter having a shell which is mountable adjacent said chamber and which defines a bore adapted to communicate therewith, a portion of the wall of said shell formed of a predetermined thickness permitting it to be deformably responsive to pressure variations within the combustion chamber, and a length of wire whose resistance varies with its strain positioned on said deformably responsive wall portion.

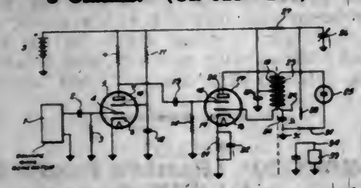
2,652,518
VARIABLE CAPACITOR TUBE
Walter C. Freeman, Jr., Morris Plains, N. J., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application November 3, 1950, Serial No. 193,250
10 Claims. (Cl. 315—58)



1. An electrical control device comprising an envelope, cathode, anode and control electrodes

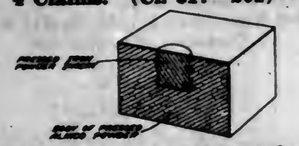
within said envelope, and a variable capacitor within said envelope, said capacitor having a dielectric having a relatively high temperature coefficient of dielectric constant, said dielectric being positioned in thermally conductive relation to said anode so as to be heated thereby.

2,652,519
GASEOUS DISCHARGE TUBE CIRCUIT
Dana A. Griffin, North Plainfield, N. J., assignor to Dana A. Griffin, William J. Hammond, and Brunson S. McCutcheon, copartners, doing business as Communication Measurements Laboratory, New York, N. Y.
Application April 20, 1945, Serial No. 589,323
5 Claims. (Cl. 315—170)



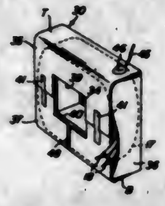
1. A stroboscopic light source comprising: a gaseous discharge tube capable of emitting light of high intensity for short intervals of time, said tube having an envelope containing gas ionizable along a predetermined path and having ionizing electrodes mounted adjacent said path and said gas having a predetermined electromagnetic field ionization level; means external to said tube generating an electromagnetic energy ionizing field which exceeds said level for periodic intervals of time but which is less than said level between said intervals, said means generating said ionizing field comprising a low frequency electron tube oscillator generating pulses having time durations substantially equal to said intervals and having a predetermined spacing and frequency, a high frequency generator generating an electromagnetic field, said high frequency generator including an electron tube oscillator whose frequency of oscillation is higher than said predetermined frequency and having means which is responsive to said pulses controlling the output of said high frequency generator, and means coupling said low frequency oscillator to said means controlling the output of said high frequency generator; and coupling means directly applying the output of said high frequency generator to said ionizing electrodes.

2,652,520
COMPOSITE SINTERED METAL POWDER ARTICLE
Robert J. Studders, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 24, 1949, Serial No. 134,934
4 Claims. (Cl. 317—201)



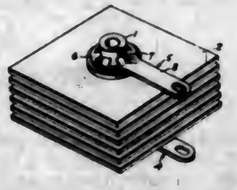
2. A composite sintered metal article composed of separately compacted insert and body portions of different powdered metal compositions compacted at different pressures such that they exhibit approximately the same shrinkage characteristics during sintering of the composite article.

2,652,521
SHIELD FOR TRANSFORMER COILS
Leslie C. Westphal, Wauwatosa, Wis., assignor to The Nu-Way Corporation, Rock Island, Ill., a corporation of Illinois
Application August 22, 1949, Serial No. 111,617
6 Claims. (Cl. 317—206)



1. In combination with a magnetic core and a coil encircling said core, a shield comprising a flexible sheet of insulating material, one side of said sheet being covered with an electrically conductive material, said sheet including a central portion adapted to coincide with one side of the coil and having an aperture through which the core can extend, a pair of oppositely disposed extensions adapted to fold over opposite edge portions of said coil, and a second pair of oppositely disposed extensions adapted to fold over other opposite edge portions and over the other side of the coil and terminating in spaced relation to each other to receive the core therebetween, said conductive material having a gap extending from said aperture outwardly to one edge thereof.

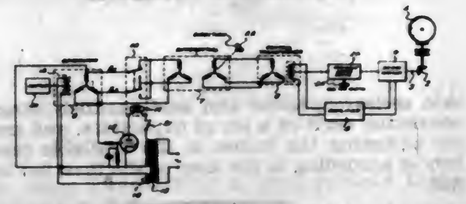
2,652,522
RECTIFIER STACK
Alton S. Vanderhoof, Maplewood, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application June 23, 1949, Serial No. 100,291
1 Claim. (Cl. 317—234)



A rectifier stack assembly comprising a core of insulating material, a plurality of rectifier plates each having an opening therethrough, a plurality of metallic washers, said plates and washers being disposed upon said core, with a washer between at least certain of said plates and a pair of resilient lock nuts each having an opening therethrough with inwardly disposed spring lugs adapted when the lock nut is applied to said core to grip the surface of the core and thereby hold the plates and washers in assembled relation, while permitting limited axial movement against the action of the spring lugs, the diameter of said lock nut being substantially equal to the diameter of the separating washers, whereby the axial holding and contacting pressure exerted by said nut is transmitted through said stack against the individual plates by said washers, one of the lock nuts being provided with a part extending laterally thereof to provide an electric terminal for the assembly and the other lock nut being provided with a part extending outwardly from the assembly by which the assembly may be mounted

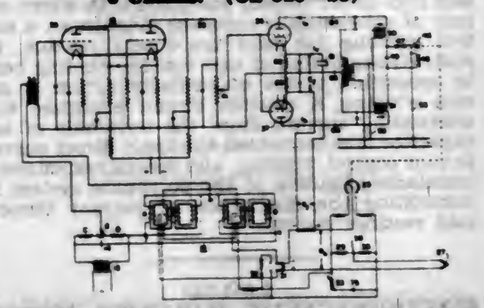
on a support, a terminal strip received upon said core at the end of the assembly containing the lock nut having an extension for mounting purposes and an insulating washer disposed between such lock nut and the rest of the assembly.

2,652,523
REVERSIBLE SERVO APPARATUS
Earl McCartney, Rockville Centre, and Gerden J. Watt, Uniondale, N. Y., assignors to The Sperry Corporation, a corporation of Delaware
Application October 10, 1951, Serial No. 250,736
10 Claims. (Cl. 318—24)



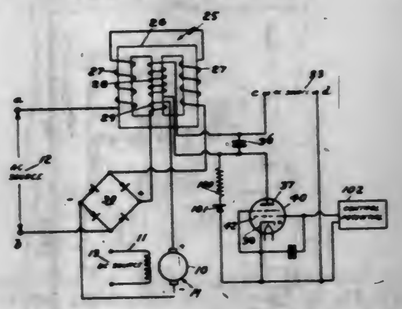
1. Means to effect smooth reversals of a servo system of the type utilizing rotary transformers with Y-connected stators for the transmission of angular information, comprising switching means connecting two of said rotary transformers and adapted to reverse two of the leads from said Y-connected stators, and control means connected and adapted to energize said switching means when the voltage between said two leads is substantially zero.

2,652,524
ANTIHUNT ELECTRICAL MEASURING SYSTEM
Anthony J. Hornfeck, Lyndhurst, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Original application October 18, 1943, Serial No. 506,632. Divided and this application May 18, 1949, Serial No. 93,870
6 Claims. (Cl. 318—28)



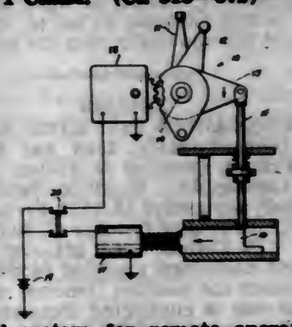
1. A balanceable electrical network including in combination, a reactor converter having means for converting a low-level direct current signal of reversible polarity into an amplified alternating current signal of reversible phase, a source of alternating current for the converter, a signal circuit including a source of low-level direct current and a connected resistor, electronic means selectively sensitive to the alternating current output signal of reversible phase, a reversible electric motor selectively actuated by said electronic means, means positioned by said electric motor to balance said network following an unbalance thereof caused by variation in said direct current signal, and a non-linear inverse feed-back circuit electrically energized from the output circuit of said electronic means and subjecting said resistor in the input circuit of said converter to a voltage modifying said low-level direct current signal.

2,652,525
ELECTRIC MOTOR CONTROL
Nathaniel B. Nichols, Wellesley, and Joseph P. Aleisio, Somerville, Mass., assignors to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application August 16, 1952, Serial No. 304,756
7 Claims. (Cl. 318—347)



6. A self-biasing magnetic amplifier comprising a variable reactance, said reactance comprising a saturable core and a control winding on said core for controlling the impedance of said reactance winding, said control winding being connected to the output circuit of a controlled rectifying electrical space discharge tube connected to a source of alternating current, a control device connected to said tube for controlling the current in its output circuit, a rectifier connected across said tube and polarized to pass the reverse cycle of said output current through said control winding, the impedance of said reactance being responsive to the currents in said control windings.

2,652,526
AIRCRAFT CONTROL SYSTEM
John David Moore, Long Branch, Ontario, and Bryan Stevens Wood, Toronto, Ontario, Canada, assignors to A. V. Roe Canada Limited, Malton, Ontario, Canada, a corporation
Application April 12, 1951, Serial No. 220,587
1 Claim. (Cl. 318—372)



A control system for remote operation of a manually operable lever, the lever having restraining means coupled thereto for restraining free movement of the lever, said system comprising remotely controllable apparatus adapted when activated to operate the lever, switch

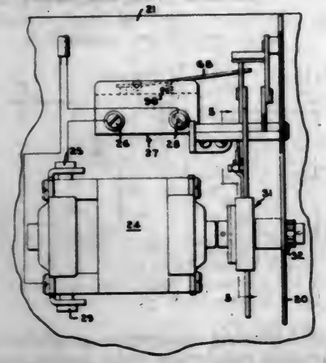
means for activating the remotely controllable apparatus, and releasing means coupled to the restraining means and actuated by the switch means for releasing the restraining means from the lever.

2,652,527

OVERLOAD RELIEF FOR ELECTRIC MOTORS

John L. Moody, Oakland, and Elwood A. Davis, Hayward, Calif., assignors to Friden Calculating Machine Co., Inc., a corporation of California

Application January 13, 1950, Serial No. 138,328
9 Claims. (Cl. 318—475)



1. An overload relief device for a motor which comprises the combination of a clutch disk driven by the said motor, a plurality of pawls carried by the said disk, resilient means biasing said pawls to a retracted position, means for adjustably changing the resilient pressure tending to urge the said pawls to their normally retracted position, a driven shaft having a plurality of longitudinally disposed V-grooves thereon adapted to form a predetermined torque transmitting engagement with the said pawls, each of the said pawls being adapted to be moved outwardly beyond the periphery of the said disk to an active position whenever the resistance to rotation of the said driven shaft exceeds a predetermined overload value, a normally open power supply control switch for the said motor, a switch control member, and a latch operable to releasably retain the said switch control member in the closed circuit position, the said latch being released by the movement of the said pawls from their normally retracted to their outwardly extending active position so as to open the said switch and automatically stop the said motor.

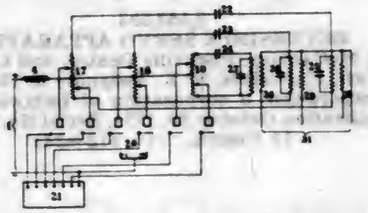
2,652,528

SELF-CONTAINED INVERTED RECTIFIER

Marcel Dementvignier, Jouy par Breuillet-Village, France, assignor to Societe a Responsabilite Limitee dite: Hewittic, Suresnes, France

Application September 18, 1951, Serial No. 247,030
In France October 11, 1950
6 Claims. (Cl. 321—36)

2. A self-contained inverted rectifier arrangement wherein the positive terminal of a source of direct current is connected through an inductance to the centre tap of a transformer winding, the negative terminal of said source being connected with the cathode of a control-grid polyanodic change-over device having its anodes connected to said transformer winding symmetrically in relation to said centre tap, the alternating voltage output circuit being connected with the terminals of said transformer, said arrangement further comprising a series-capacitor connected to said transformer and one terminal of said output circuit, a parallel-capacitor interposed between the two terminals of said output circuit,



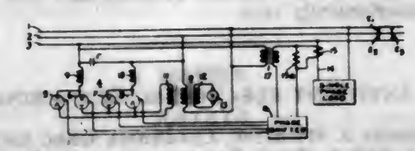
said series-capacitor and said parallel-capacitor consisting each of a set of capacitors, and means for adjusting the values of the available capacitances according to the load of the inverted rectifier.

2,652,529

PHASE BALANCING SYSTEM

Ernst F. W. Alexanderson, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application September 17, 1952, Serial No. 310,073
18 Claims. (Cl. 323—101)



1. In combination, a non-linear reactor and a capacitor arranged to be energized from different phases of a polyphase system, a bias winding for said non-linear reactor energized with direct current of substantially constant magnitude, a control winding for said non-linear reactor, the magnetizing action of said control winding being in opposition to the magnetizing action of said bias winding, a rectifier circuit energized with alternating current from the terminals of said capacitor and connected to supply direct current to said control winding, and means responsive to unbalanced loading of the polyphase system for controlling the magnitude of current through said rectifier circuit.

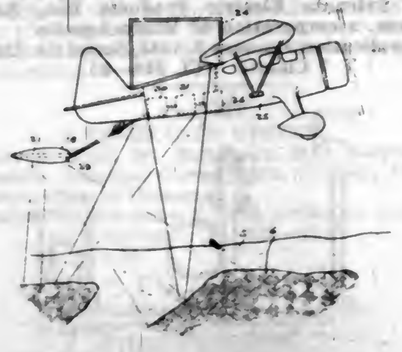
2,652,530

ELECTROMAGNETIC INDUCTION METHOD AND APPARATUS FOR LOCATING SUBTERRANEAN ELECTRICALLY CONDUCTIVE BODIES

Stanley Davidson, Sudbury, Ontario, Canada

Application February 13, 1948, Serial No. 8,236
6 Claims. (Cl. 324—6)

4. An electromagnetic induction method of locating electrically conductive bodies consisting in creating a low frequency primary magnetic field to induce a secondary magnetic field in a conductor body, moving said primary magnetic field over the earth's surface, continuously detecting said secondary magnetic field set up by said primary magnetic field as said primary magnetic field is moved while ignoring said primary field and continuously comparing the detected secondary magnetic field with a reference signal from said primary magnetic field to determine variations of the



phase angle therebetween as said primary magnetic field is moved.

2,652,531

APPARATUS FOR DETERMINING MAGNETIC PROPERTIES OF WELL CORES

William M. Schaufelberger, Whittier, Henry N. Herrick, Berkeley, and Jasper R. Leggett, Los Angeles, Calif., assignors to California Research Corporation, San Francisco, Calif., a corporation of Delaware

Application September 12, 1949, Serial No. 115,266
3 Claims. (Cl. 324—14)

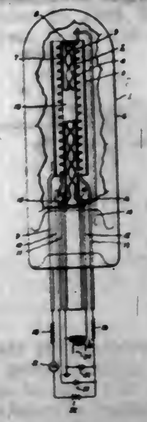
1. Magnetic core orienting apparatus for indicating the magnetic axis of an earth core comprising an electron beam tube having a pair of plates adapted to intercept said beam in equal proportion, core rotating means adapted to rotate said core adjacent the axis of said beam, magnetic shielding means surrounding said tube and said rotating means to eliminate the magnetic effect of earth's field, amplifying means connected to the plates of said tube to determine the direction of movement of said beam between said plates, meter means operable by said amplifying means, and position-indicating means drivable by said core-rotating means located adjacent said meter means so that the direction and amplitude of the movement of said meter may be noted in respect to the position of said core and thereby identify the magnetic axis of said core.

2,652,532

ELECTRICAL VAPOR DETECTOR

Paul D. Zemany, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application August 22, 1952, Serial No. 305,324
9 Claims. (Cl. 324—33)



1. Apparatus for detecting the presence of a finely divided substance comprising an electrical discharge device which includes a cathode, an electrode for heating said cathode to cause the emission of electrons therefrom and an anode for receiving electrons emitted from said cathode, means for maintaining said anode at a positive potential with respect to said cathode and said cathode at a negative potential with respect to said electrode, said cathode, said electrode and said anode being arranged such that contact of the finely divided substance with said electrode induces the formation of positive ions which are collected by said cathode, means for causing the potential of said cathode to vary in response to the collection of positive ions thereby, and means for indicating changes in the electron current between said cathode and said anode caused by the variations in said cathode potential, whereby said changes in the electron current serve to detect the presence of the finely divided substance.

5. An electrical discharge device for detecting the presence of a finely divided substance comprising a cathode and an anode disposed within an evacuated envelope, said cathode including a hollow electrode which extends through the wall of said envelope to provide a means for introducing a quantity of the finely divided substance into the interior of said hollow electrode, and an electrode adapted for heating to an elevated temperature and disposed within said hollow electrode for causing in the presence of the finely divided substance the formation of positive ions which may be collected upon said cathode and further for heating said cathode to an elevated temperature, whereby electrons may be emitted from said cathode and received by said anode in dependence upon the number of positive ions collected by said cathode.

2,652,533

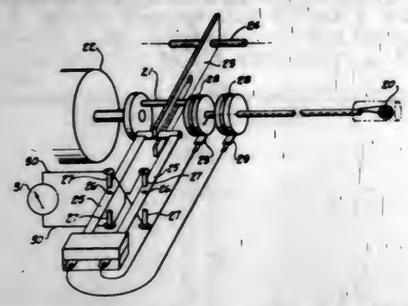
GAUSSMETER

Morley J. Lush, Cambridge, Mass., assignor to Rawson Electrical Instrument Company, Cambridge, Mass.

Application November 24, 1950, Serial No. 197,219
3 Claims. (Cl. 324—47)

1. A gaussmeter comprising a rotatable shaft, an electrical circuit including a coil of wire

mounted on said shaft for rotation therewith whereby rotation of said coil in a magnetic field produces an alternating current in said coil and circuit, a cam and rigid rocker arm rectifier for mechanically rectifying said alternating current by breaking and making said circuit at regular points in each single revolution of said coil, said



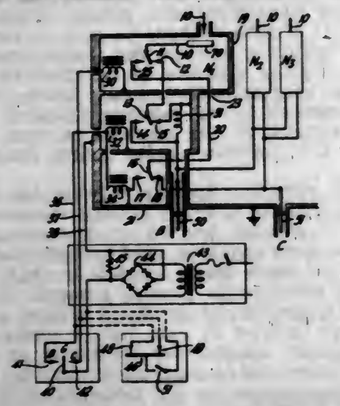
rectifier being activated by the rotation of said shaft, and said rectifier being bodily adjustable in rotation about the axis of said shaft, whereby the angular positions of rotation of said coil at the time of said circuit breaks and makes may be varied, and a D. C. meter operable from the output of said rectifier.

2,652,534

SWITCHING APPARATUS FOR ELECTRON TUBE CAPACITANCE MEASUREMENTS

Robert E. Graham, Floral Park, N. Y., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts

Application October 19, 1950, Serial No. 190,971
12 Claims. (Cl. 324—60)



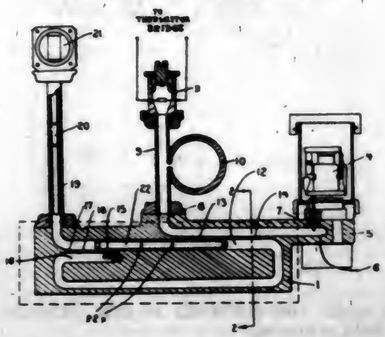
1. Switching apparatus for a direct capacitance measuring bridge having B and C input terminals, comprising N conductors each adapted to be connected to a lead to an electrode of an electron tube, and N groups of switches, each group having first, second and third switches, one of said conductors being connected to the first switch in each of said groups respectively, said first switch having contacts selectively closable connected to said second and third switches respectively and said second and third switches having contacts selectively closable, one of said contacts of said second and third switches being connected to ground, and the other contact in said second and third switch being connected to the B and C terminals of said bridge respectively.

2,652,535

HIGH-FREQUENCY TESTING APPARATUS

Richard M. Walker, Dorchester, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts

Application January 2, 1948, Serial No. 219
7 Claims. (Cl. 324—95)



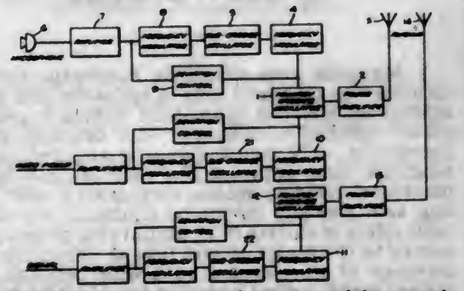
1. In combination with a hollow external waveguide system, testing apparatus for high frequency power connected to said system comprising, a metallic power distributor element, a pair of waveguide channels therein each having an outlet connection, a high frequency generator having its output arranged to feed power to a first channel of said distributor, electrical measuring means connected to the outlet of said first channel, said second channel being generally in the form of a flat loop having upper and lower spaced runs connected at one end to its outlet connection, at least a portion of its upper run lying close and parallel to said first channel, a coupling aperture between the first and second channels at their parallel portions, a waveguide connected as a continuous waveguide extension of the remaining end of said lower run and leading upward and thence parallel and close to a portion of the upper run thereof, a second coupling aperture between the extension of the lower run and the adjacent portion of the upper run of said second channel, and interconnecting means connecting the outlet of said second channel to the external waveguide system.

2,652,536

RADIO BROADCAST SYSTEM

James R. Alburger, Los Angeles, Calif.

Application July 7, 1950, Serial No. 172,631
1 Claim. (Cl. 332—18)



A signal transmission system comprising a primary carrier wave source, a sub-carrier wave source, means for frequency modulating the primary carrier wave by said sub-carrier waves, a source of intelligence waves, means for frequency modulating the sub-carrier wave by said intelligence waves, and means for modulating

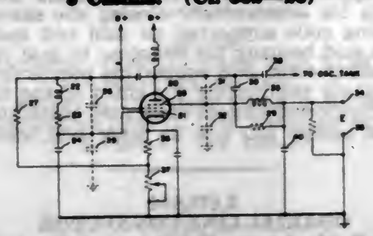
the deviation of said primary carrier wave in accordance with said intelligence waves, the amplitude and phase of the last said modulation being adjusted so as to maintain substantially constant the ratio of the primary carrier frequency deviation to the instantaneous frequency of the sub-carrier.

2,652,537

REACTANCE SYSTEM

Keefer S. Stull, Jr., Baltimore, Md., assignor to Bendix Aviation Corporation, Towson, Md., a corporation of Delaware

Application November 6, 1952, Serial No. 319,950
8 Claims. (Cl. 332—28)



1. A reactance system comprising an electron tube having an anode, a cathode and at least two grid electrodes, a pair of phase shifting networks, each connecting said anode with a respective one of said grid electrodes, one of said networks advancing the phase of the voltage at the grid electrode to which it is connected by ninety degrees with respect to the voltage at said anode, the other of said networks delaying the phase of the voltage at the grid electrode to which it is connected by ninety degrees with respect to the voltage at said anode, means biasing said grid electrodes such that the ratio of the static transconductances of said grid electrodes is the reciprocal of the ratio of the amplitudes of the voltages applied thereto by said networks, means applying a control voltage to one of the electrodes of said tube and an output connection to said anode.

2,652,538

REACTANCE TUBE CIRCUIT

William R. Rambo, Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War

Application November 27, 1945, Serial No. 631,186
6 Claims. (Cl. 332—28)



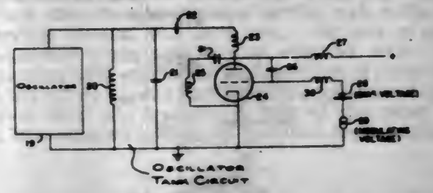
1. In combination, a circuit having oscillatory energy flowing therein, and means for injecting reactive current into said circuit during only a fraction of each cycle of said oscillatory energy, said means comprising electron tube means having input and output electrodes, means coupling said output electrodes to said circuit, means applying oscillatory energy to said input electrode approximately 90° phase-displaced relative to the energy flowing in said circuit, means biasing one of said electrodes to normally render said electron tube means conductive only during a portion of each cycle oscillatory energy applied thereto from said circuit and for preventing conduction during the remainder of each cycle, and means to vary the potential on one of said electrodes thereby to vary the magnitude of said portion in accordance with the magnitude of said potential.

2,652,539

METHOD AND MEANS FOR WIDE BAND FREQUENCY MODULATION

Joseph W. Kearney, Dorchester, and William R. Rambo, Cambridge, Mass., assignors to the United States of America as represented by the Secretary of War

Application November 27, 1945, Serial No. 631,185
12 Claims. (Cl. 332—29)



1. In combination, an oscillation generator having a resonant tank circuit, a reactance means including a reactance and an electronic switch for connecting said reactance in parallel with said tank circuit, and control means including a source of modulation voltage connected to said electronic switch for closing said electronic switch during a fraction of each cycle of said oscillation generator, whereby the resonant frequency of said tank circuit is varied as a function of said fraction of each cycle during which said electronic switch is closed and the said reactance is thereby effectively connected in parallel with said tank circuit.

2,652,540

APPARATUS FOR MODIFYING THE AMPLITUDE RANGE OF MICROWAVE SIGNALS

Anselm F. Dietrich, West Long Branch, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application September 30, 1949, Serial No. 118,856
8 Claims. (Cl. 333—14)



2. Apparatus for modifying the amplitude range of applied waves comprising a wave-guide hybrid junction having two pairs of conjugate arms extending therefrom, input and output connections for the respective arms of one of said pairs, identical non-linear impedances mounted in the arms of the other of said pairs, said non-linear impedances being matched to the respective arms in which they are mounted at the same high signal amplitude level, and means for introducing a one-quarter wave phase delay connected between said junction and the non-linear impedance in one of said arms.

2,652,541

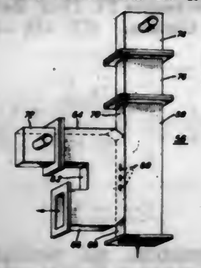
EXPANDER FOR MICROWAVE SIGNALS

Cassius C. Cutler, Gillette, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application September 30, 1949, Serial No. 118,890
6 Claims. (Cl. 333—14)

3. Apparatus for modifying the amplitude range of applied waves comprising a wave-guide junction having at least two pairs of conjugate arms extending therefrom, input and output connections for the respective arms of one of said

pairs, identical non-linear impedances mounted respectively in the arms of the other of said pairs, one of said non-linear impedances being mounted one-quarter wavelength further from said junction than the other, and said non-linear impedances being matched to the respective arms in which they are mounted at a chosen signal
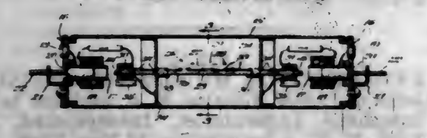


amplitude level, and means including a circuit connected to said crystals to permit self-rectification of the energy incident thereupon thereby to change the impedances of said crystals with amplitude level.

2,652,542
ELECTROMECHANICAL FILTER
Myron L. Anthony and Robert M. Virkus, La Grange, Ill., assignors to Motorola, Inc., Chicago, Ill., a corporation of Illinois
Application December 14, 1948, Serial No. 65,253
9 Claims. (Cl. 333—71)



1. An electromechanical filter comprising a plurality of sections each including a flat plate and means connected to at least one edge of the plate thereof for mechanically coupling said plate to at least one other plate, said plates transmitting vibrations therethrough and said coupling means applying said vibrations from one plate to the next, one of said sections including a plate of different configuration than the plate of another section so that the band pass of said one section is different than the band pass of said other section.

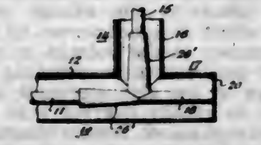
2,652,543
ELECTROMECHANICAL FILTER
Myron L. Anthony, La Grange, and Robert M. Virkus, Riverside, Ill., assignors to Motorola, Inc., Chicago, Ill., a corporation of Illinois
Application June 16, 1949, Serial No. 99,496
8 Claims. (Cl. 333—71)



2. An electromechanical filter comprising a plurality of resonant systems all of which have the same center resonant frequency, each of said systems including at least one mechanical resonant member in the form of a flat rectangular plate, and mechanical means secured to the edges of said plates interconnecting said systems, said mechanical means providing critical coupling between each of said systems so that the overall response of said filter is maximum at said center frequency.

6. An electromechanical filter structure comprising an elongated filter unit made up of a plurality of mechanically interconnecting vibrating members in the form of flat plates, a conducting housing, means supporting said filter unit within said housing, a driving coil associated with the member at one end of said filter unit, a pickup coil associated with the member at the end of said filter unit opposite to said one end, said driving coil and said pickup coil being mounted on said supporting means, end members for said housing for substantially closing the same, and matching coils supported on said end members within said housing for coupling to said driving and pickup coils, said supporting means forming a shield for eliminating the effect of the field of said driving coil and its associated matching coil on said pickup coil and its associated matching coil.

2,652,544
COAXIAL LINE CONNECTOR
Robert B. Muchmore, Hawthorne, Calif., assignor to The Sperry Corporation, a corporation of Delaware
Application December 16, 1948, Serial No. 64,475
2 Claims. (Cl. 333—95)

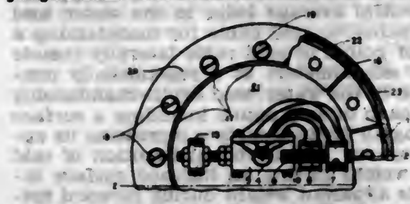


1. A coaxial transmission line connector comprising a first section of coaxial line having an inner and outer conductor, a second section of coaxial line having an inner and outer conductor joined respectively to said inner and outer conductor of said first section, a section of short-circuited coaxial line, the free end of the inner conductor of said short-circuited line section being connected to the junction of the inner conductors of said first and second line sections, and the free end of the outer conductor of said short-circuited line section being connected to the junction of the outer conductors of said first and second line section, a first metallic sleeve positioned over the junction end of the inner conductor of said first line section and a second metallic sleeve positioned over the junction end of the inner conductor of said second line section, one of said sleeves having a decreasing outer diameter at increasing distance from said junction, and the other of said sleeves having an increasing outer diameter at increasing distance from said junction.

2,652,545
DEVIATION COMPENSATOR
Donald W. Halfhill, Marblehead, Mass., assignor to General Electric Company, a corporation of New York
Application April 30, 1952, Serial No. 285,245
4 Claims. (Cl. 336—135)

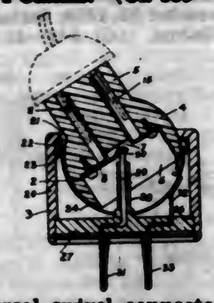
1. A compensator device comprising a rotor, an electromagnet winding mounted on said rotor and energized with alternating current signals, a pair of output windings mounted on said rotor and positioned to have voltages of opposite phase induced therein by flux from said electromagnet winding, and a plurality of flux-conducting members arranged annular about said rotor, each of

said members being movable to adjust in any proportions the amounts of rotor flux inter-



cepted by each of said output windings when said rotor is opposite said member.

2,652,546
UNIVERSAL CONNECTION FOR ELECTRIC SERVICE CORDS
Robert M. Christner, Pittsburgh, Pa.
Application June 11, 1949, Serial No. 98,520
4 Claims. (Cl. 339—7)

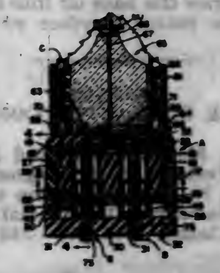


1. A universal swivel connector comprising a socket member of cup-like form made of insulating material having an inturned lip at the top thereof and having a central pin with a contact terminal at the bottom thereof extending up into the socket, a semi-circular metal shell in the socket member through which the pin projects and from which it is insulated, a ball member made of insulating material in the socket having a ball portion and an extension, the ball portion having a cavity in the end thereof into which said central pin in the socket projects, the terminal of the pin being at the center of the ball portion, the ball portion being received in said semi-circular metal shell, the inturned lip on the socket overhanging the ball portion to restrain the parts against endwise separation, the cavity of the ball portion being provided with a contact element that rests on the terminal of the pin, the cavity of the ball portion also being provided at a point remote from the center with another contact that bears on the interior of the metal shell, said extension of the ball member being provided with openings for the reception of contact blades, the openings each having a conductor therein, the conductor in one opening leading to one of said contacts in the cavity, and the conductor in the other cavity leading to the other contact in the cavity, and a pair of conductors on the socket leading to the shell and pin respectively.

2,652,547
DETACHABLE ELECTRICAL CONNECTOR HAVING TERMINAL CLAMPING MEANS
Mervyn R. Rathborne, Half Moon Bay, Calif.
Application June 9, 1952, Serial No. 292,455
18 Claims. (Cl. 339—76)

1. A detachable electrical connector including a rotatable operating ring having means exterior-

ly thereof for grasping the ring for rotating the same; a wedging member assembly including a first disc provided with a pair of spaced-apart appliance plug prong-receiving elongated openings, a second disc spaced from and axially aligned with the first disc, a wedging cylinder in a part of the space between said discs and within said operating ring, and provided with a pair of spaced-apart socket means-receiving openings, the last mentioned openings having wall surfaces diverging toward said first disc, with one of said last-named openings axially aligned with the transverse axis of one of the first-named openings and the other of said last-named openings axially aligned with the transverse axis of the other of said first-named openings, resilient socket means



to receive said prongs, including resilient wall portions, of electricity-conducting material, diverging towards said first disc, means interconnecting said wedging cylinder and discs, with said discs spaced apart a like distance at all times, and support means rigidly supporting said socket means upon said second disc to extend through said wedging cylinder and outwardly thereof towards said first disc, with said resilient wall portions in contact with the wall surfaces of said socket means-receiving openings; means to cause said wedging cylinder to move towards said first disc upon rotation of said operating ring in one direction and to move away from said first disc upon rotation of said operating ring in the other direction; and electrical conductor means electrically connected with said socket means.

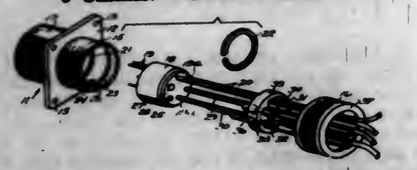
2,652,548
THREADED NOZZLE CLIP FOR LAMP SOCKETS
George B. Benander, Oaklawn, R. I., assignor to General Electric Company, a corporation of New York
Application September 27, 1951, Serial No. 248,631
3 Claims. (Cl. 339—124)



1. In a lamp socket, a housing split longitudinally to provide housing halves and means for fastening together the housing halves at their lower ends and forming a mounting means for the lamp socket comprising walls which define in opposed outer sides of the halves opposite outwardly facing notches, the top and bottom walls

of which taper inwardly with respect to each other whereby the notches in a vertical direction are wider at their outer ends than at their inner ends, and a combined securing device and mounting means having a base which fits against the bottom surface of the housing halves, means forming a part of the base to which a supporting member may be attached for supporting the lamp socket, and arms integral with the base which extend up along the side of the socket housing and have inwardly turned downwardly sloping hooked ends positioned in said notches, said arms being of a length and said hook ends having a width such that when the hooked ends are pushed into the notches, they are wedged between the top and bottom tapered walls of the notches and draw the base up into tight engagement with the bottom surface of the housing halves.

2,652,549
REMOVABLE CONTACTOR CONNECTION PLUG
David Ingalls, Mountainside, and John Wallen Anderson, Westfield, N. J., assignors to Airtron, Inc., Linden, N. J., a corporation of New Jersey
Application January 6, 1950, Serial No. 137,192
9 Claims. (Cl. 339—196)



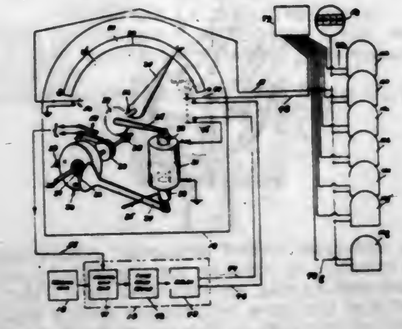
1. A multi-contactor connection plug comprising a tubular shell, a fixed contactor carrying plug immovably held within said shell, a removable-contactor carrying plug disposed within said shell in end to end relation to the first mentioned plug and being formed with an axial passage therethrough and one or more axially extending removable-contactor holding grooves into each of which a removable contactor may be laterally pressed and be held therewithin, a centrally apertured nut coacting with said shell to hold the second of said plugs within the latter, and plural fixed contactors fixedly disposed in axially-extending positions within the first mentioned plug in axial alignment with the said passage in the second mentioned plug, the first mentioned plug being formed with one or more axially extending openings which, in one angular relationship of the two plugs, are in axial alignment with said one or more grooves so that contactors held by said grooves may extend into the said openings.

2,652,550
MARINE SEISMOMETER SPREAD
Charles C. Lash, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application February 23, 1949, Serial No. 77,943
3 Claims. (Cl. 340—7)



1. A marine seismometer spread adapted for towing by a vessel through a body of water comprising a tension and conductor cable, a plurality of seismometers spaced along said cable and connected to conductors therein, a plurality of supporting floats spaced along and attached to said cable and seismometers, the buoyancy of said floats, cable, and seismometers having an approximately neutral average value in the water, and means attached to said cable for maintaining a plurality of points of said cable laterally remote from said seismometers at a substantially constant depth in the water, said depth-maintaining means at each of said points including a surface float having an inclined surface increasing its apparent buoyancy during forward motion of said spread, a weight having an inclined surface increasing its apparent weight during forward motion of said spread, and a flexible cable connecting said surface float and said weight.

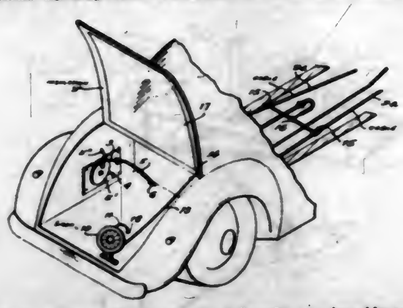
2,652,551
PARKING METER
Donald G. Gumpertz, North Hollywood, and Russel C. Alexander, Long Beach, Calif., assignors, by mesne assignments, to M & M Manufacturing Corporation, a corporation of Colorado
Application December 23, 1950, Serial No. 202,533
14 Claims. (Cl. 340—51)



1. In a parking meter, the combination of: a time indicator movable from a zero position to an operative position in response to manually movable means for indicating unexpired time; timing means coacting with said indicator to move the same to said zero position upon expiration of said time, said timing means including a driving spring; resetting means operable upon actuation at any time to move said indicator to said zero position; sensing means responsive to the presence of a vehicle in a given parking area for producing a signal representing the departure of said vehicle from said area; electrical means connected between said sensing means and said resetting means and operably responsive to said signal for actuating said resetting means; a source of power for energizing said electrical means; intermittently operated switch means coupled to said timing means for operation thereby connected in circuit between said source and said electrical means for periodically momentarily energizing said electrical means; and time delay means coacting with said electrical means for delaying actuation of said resetting means until a predetermined time after production of said signal.

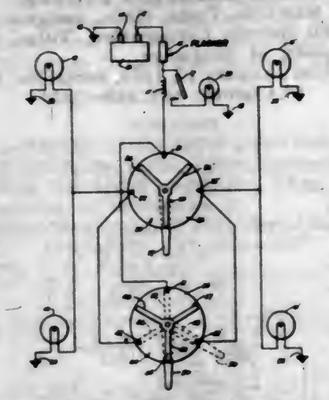
2,652,552
THEFT-PREVENTING ARRANGEMENT FOR MOTORCARS
Honorio Vizcaino Husso, Mexico City, Mexico
Application September 6, 1951, Serial No. 245,252
In Mexico December 1, 1950
5 Claims. (Cl. 340—63)

1. In a motor car including a body and a brake, in combination, a closable trunk compartment located in the body of the motor car; a manually operated brake-actuating member mounted in said trunk compartment movably between a braking position and a releasing position; motion-transmitting means movably mounted on the body of said motor car and secured at one end thereof to the brake and at the other end thereof



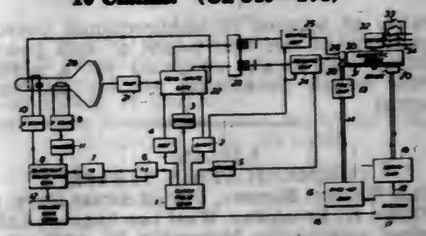
to said manually operated brake-actuating member; and locking means mounted also in said trunk compartment for arresting said manually operated brake-actuating member in braking position, so that when said brake-actuating member is in braking position, and said trunk compartment is closed, moving of the motor car by unauthorized persons is prevented.

2,652,553
DIRECTIONAL SIGNAL SYSTEM
Jesse R. Hollins, Brooklyn, N. Y.
Application September 29, 1949, Serial No. 118,521
1 Claim. (Cl. 340—81)



A vehicle signalling system comprising, in combination, a source of electric power, electrically operable signal lamps arranged one on each of the left and right sides of the vehicle, a first switch having a first fixed contact connected to said source, second fixed contacts each connected to a different lamp, and a movable contact member on said first switch selectively operable to connect one of said second contacts to said first contact to selectively illuminate one of said lamps, and a second switch connected to said source of power and in parallel with said first switch means and having a third fixed contact connected to said first fixed contact, fourth fixed contacts equal in number to said second fixed contacts and each connected to a different second contact, and a movable contact member on said second switch selectively operable to connect all of said fourth contacts simultaneously to said third contact to simultaneously illuminate all of said lamps to provide an emergency stop signal independently of the said first switch means whether said first switch means is connected or not to said signal devices.

2,652,554
MAGNETIC STORAGE SYSTEM FOR ELECTRONIC BINARY DIGITAL COMPUTERS
Frederic C. Williams, Timperley, and John C. West, Hindley, England, assignors to National Research Development Corporation, London, England, a British corporation
Application February 27, 1950, Serial No. 146,445
In Great Britain March 1, 1949
10 Claims. (Cl. 340—174)

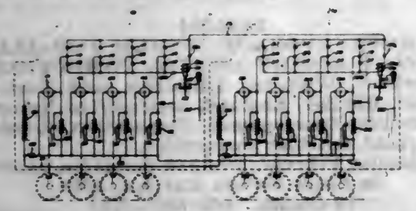


1. In an electronic binary-digital computer utilising a temporary storage system and in which the various operations taking place in the machine are synchronised by a clock-pulse generator, a magnetic storage system comprising at least one rotatable drum, a number of fixed recording heads cooperating with the drum so that when the drum rotates each head scans a circumferential track on which signals representing binary numbers can be stored, a motor capable of rotating the drum at a speed in excess of a predetermined speed, generating means for deriving a given train of signals from said clock pulse generator, said signals being of a form in which an abrupt change of amplitude in a given direction takes place at regular intervals embracing a fixed number of digit signals, a series of reference signals on one of said circumferential tracks positioned so that when the drum is rotating at said predetermined speed signals induced in the corresponding recording head are in synchronism with said given train of signals, means for comparing the phase of said signals induced in said recording head by said reference signals with the phase of said abrupt change of amplitude in the waveform in said given direction of said given train of signals, means for deriving a control current which varies in accordance with the phase displacement between said reference signals and said given train of signals, and braking means responsive to said control current and cooperating with the recording drum to constrain said drum to rotate at said predetermined speed and in synchronism with said given train of signals.

2,652,555
WHEEL SLIP PROTECTIVE SYSTEM
Russell M. Smith, Ripley, N. Y., assignor to General Electric Company, a corporation of New York
Application November 28, 1952, Serial No. 322,020
11 Claims. (Cl. 340—263)

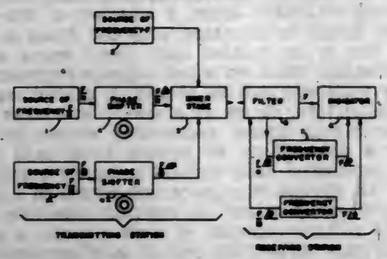
1. A system responsive to the occurrence of a predetermined voltage difference between two of a plurality of sources of unidirectional potential, comprising an electroresponsive device having two terminals, a plurality of pairs of rectifier

devices connected in parallel between the said two terminals, each pair comprising two rectifiers in series with both rectifiers poled to carry current from one of the said terminals toward the other said terminal, means for connecting the



plurality of sources of unidirectional potential respectively to the mid-points of said pairs of rectifiers, and means providing for a common current return connection for the sources of potential.

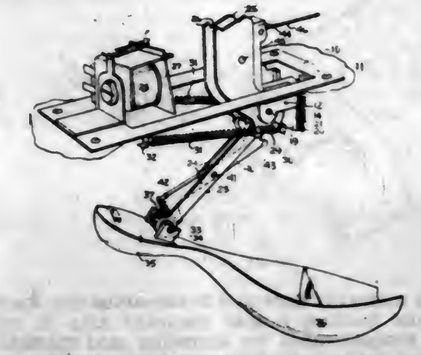
2,652,556
COMMUNICATION SYSTEM
Adolph William Bersum, United States Navy, and Wilhelm W. Brockway, West Los Angeles, Calif.
Original application November 26, 1945, Serial No. 630,957, now Patent No. 2,582,957, dated January 22, 1952. Divided and this application February 21, 1950, Serial No. 145,514
4 Claims. (Cl. 340—324)
(Granted under Title 35, U. S. Code (1952), sec. 266)



3. A communication system comprising: a transmitting station including a reference frequency voltage source of fixed frequency and a source of a fixed frequency voltage bearing an integral multiple relation to said reference frequency source, means for shifting the phase of one of said voltage sources in accordance with information to be communicated and mixing means for combining the output of said voltage sources; a receiving means including means separating the reference frequency voltage from the said voltage bearing an integral relation with respect thereto, means for converting one of said separated voltages to the same frequency as the other of said separated voltages and means responsive to the relative phase relations of the said voltages of the same frequency.

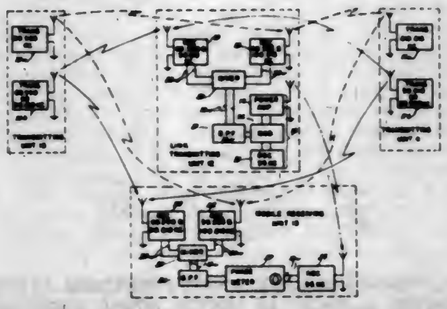
2,652,557
BOWLING PIN ELEVATING AND RESETTING MECHANISM
Lyndon A. Durant and Marcine P. Wolverton, Chicago, Ill., assignors to General Patent Corporation, Chicago, Ill., a corporation of Illinois
Application May 11, 1953, Serial No. 354,061
12 Claims. (Cl. 340—376)

11. A simulated bowling pin elevating and resetting mechanism comprising a mounting plate, an arm having at one end thereof a latch plate, means pivotally connecting said end of the arm to said mounting plate, a target simulating a bowling pin, means connecting said target adjacent one end thereof to the opposite end of the arm for pivotal movement with respect thereto, means for pivoting said arm relative to the mounting plate, means for pivoting the target



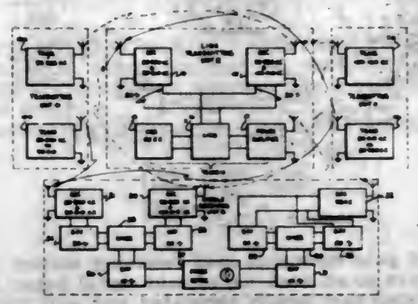
with respect to the arm, said target pivoting means effective to pivot said target with respect to said arm by the pivotal movement of said arm relative to said plate, a latch member carried by the mounting plate and adapted to have latched engagement with the latch plate, and means for releasing said latch member from the latch plate to free said arm and target for pivotal movement.

2,652,558
RADIO LOCATION SYSTEM
James E. Hawkins, Tulsa, Okla., assignor to Seismograph Service Corporation, Tulsa, Okla., a corporation of Delaware
Application January 12, 1950, Serial No. 138,235
49 Claims. (Cl. 343—105)



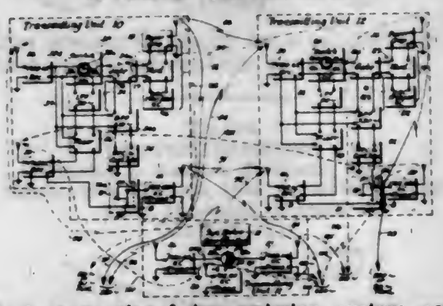
1. A wave signal transmission system comprising, a pair of spaced transmitting units, a plurality of pairs of transmitters for radiating signals of different frequencies, said transmitters of each pair being respectively disposed at different transmitting units, a plurality of heterodyning means respectively responsive to pairs of signals derived from said pairs of transmitters to produce beat frequency signals having frequencies respectively representative of the beat frequencies between the pairs of signals radiated by said pairs of transmitters, and other heterodyning means responsive to said beat frequency signals for producing at least one beat frequency reference signal having a frequency representative of the beat frequency between at least one pair of said first mentioned beat frequency signals.

2,652,559
RADIO LOCATION SYSTEM
James E. Hawkins, Tulsa, Okla., assignor to Seismograph Service Corporation, Tulsa, Okla., a corporation of Delaware
Application November 7, 1950, Serial No. 194,490
24 Claims. (Cl. 343—105)



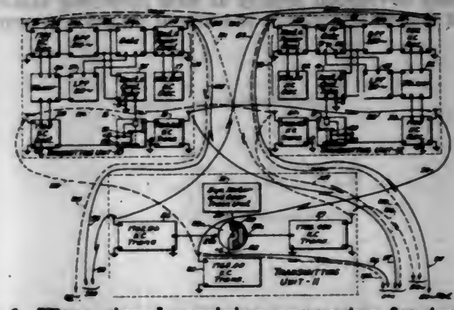
1. Wave signal receiving apparatus for translating received space radiated signals into position indications comprising, a plurality of receivers for respectively receiving pairs of space radiated signals and for heterodyning said received pairs to produce beat frequency signals having frequencies respectively representative of the beat frequencies between the signals of each pair, means for receiving a modulated space radiated carrier signal and for reproducing modulation components therefrom having frequencies respectively equal to said beat frequency signals, means for separately mixing said beat frequency signals and said modulation components to provide output components respectively representative of the beat frequencies between said beat frequency signals and between said modulation components, and means for comparing said output components to provide position indications.

2,652,560
RADIO LOCATION SYSTEM
James E. Hawkins, Tulsa, Okla., assignor to Seismograph Service Corporation, Tulsa, Okla., a corporation of Oklahoma
Application September 8, 1951, Serial No. 245,753
35 Claims. (Cl. 343—105)



1. A wave signal transmission system comprising a pair of spaced transmitting units, a plurality of pairs of transmitters for radiating waves of different frequencies, said transmitters of each pair being respectively disposed at different transmitting units, a plurality of heterodyning means respectively responsive to pairs of signals derived from said pairs of transmitters to produce beat frequency signals having frequencies respectively related to the beat frequencies between the pairs of waves radiated by said pairs of transmitters, other heterodyning means responsive to said beat frequency signals for producing at least one beat frequency reference signal having a frequency related to the beat frequency between at least one pair of said first mentioned beat frequency signals, means for modulating a first one of said beat frequency signals and said reference signal upon one of said radiated waves, normally closed gate means responsive to one of said beat frequency signals for supplying said first beat frequency signal and said reference signal to said modulating means, and cyclically operating switch means for selectively supplying said first beat frequency signal and said reference signal to said gate means.

2,652,561
RADIO LOCATION SYSTEM
James E. Hawkins, Tulsa, Okla., assignor to Seismograph Service Corporation, Tulsa, Okla., a corporation of Delaware
Application November 6, 1951, Serial No. 254,996
11 Claims. (Cl. 343—105)

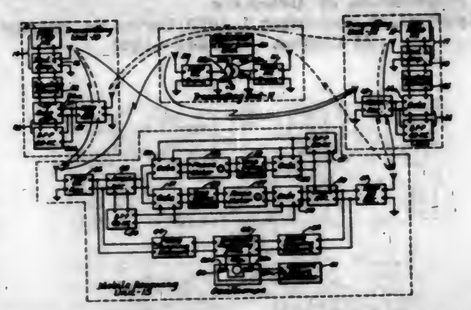


1. Wave signal receiving apparatus for translating received space radiated signals into position indications comprising, a plurality of receivers for respectively receiving pairs of space radiated signals and for heterodyning said received pairs to produce beat frequency signals having frequencies respectively representative of the beat frequencies between the signals of each pair, heterodyning means responsive to said beat frequency signals for producing a position indicating heterodyne signal having a frequency representative of the beat frequency between said beat frequency signals, means for receiving and reproducing a reference signal having a frequency equal to the frequency of said heterodyne signal and modulated on a space radiated carrier whereby a pair of signals of matching frequency is obtained, phase measuring means for measuring the phase relationship between said matching frequency heterodyne and reference signals, normally closed gate means responsive to one of said matching signals for supplying said matching signals to said phase measuring means, a second phase measuring means, and means including frequency multiplying means energizeable by said matching signals supplied through said gate means for developing a second pair of matching signals for energizing said second phase measuring means.

2,652,562
RADIO LOCATION SYSTEM
James E. Hawkins, Tulsa, Okla., assignor to Seismograph Service Corporation, Tulsa, Okla., a corporation of Delaware
Application November 26, 1951, Serial No. 257,332
18 Claims. (Cl. 343—105)

1. A combined pulse transit time and phase comparison system of position determination,

comprising a receiving station, transmitting apparatus including transmitters for concurrently radiating signals of different frequencies and means for pulsing one of said signals, a reference signal repeating station remote from said receiving station, means at each of said stations for heterodyning said signals to produce signal pulses having a frequency related to the beat frequency between the heterodyned signals, means including normally closed gate means responsive to said signal pulses for transmitting the signal pulses produced at said repeating station to said receiving station, pulse transit time comparison means at said receiving station response to the time difference between the signal pulses developed locally at said receiving station and the signal pulses trainsmitted to said receiving station from said repeating station for producing one indication representative of the position of said receiving station relative to said repeating station, phase measuring means at said receiving station responsive to the phase relationship between the waves within the signal pulses developed locally at said receiving station and the waves within the signal pulses transmitted to said receiving station from said repeating station for producing a second indication representative of the position of said receiving station relative to said repeating station, and normally

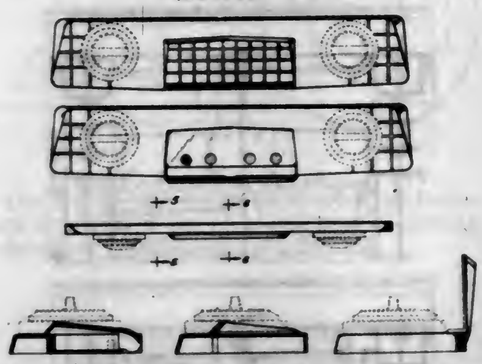


closed gate means at said receiving station responsive to at least one of said signal pulses for supplying said locally generated and said transmitted signal pulses to said phase measuring means for phase comparison.

DESIGNS

SEPTEMBER 15, 1953

170,294
TELEVISION CABINET CONTROL PANEL
Samuel E. Adler, Chicago, Ill., assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application February 12, 1953, Serial No. 23,580
Term of patent 14 years
(Cl. D56—4)



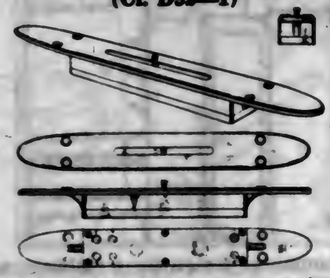
The ornamental design for a television cabinet control panel, as shown and described.

170,295
CAP FOR TUBE OR SIMILAR ARTICLE
Milton Brav, Chicago, Ill.
Application June 13, 1952, Serial No. 20,186
Term of patent 14 years
(Cl. D58—26)



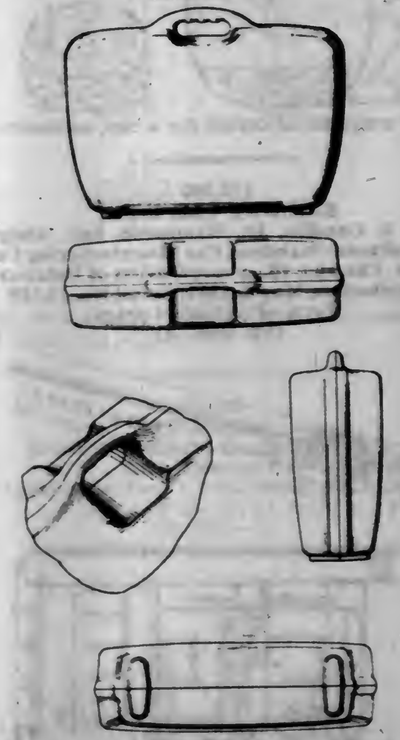
The ornamental design for a cap for tube or similar article, substantially as shown.

170,296
POTENTIOMETER
Marian E. Bourns, Riverside, Calif.
Application March 4, 1953, Serial No. 24,240
Term of patent 14 years
(Cl. D52—1)



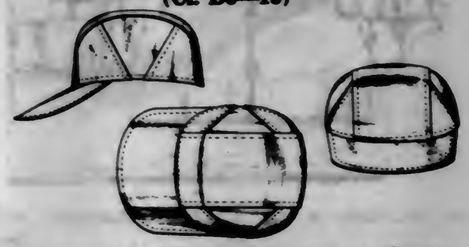
The ornamental design for a potentiometer, substantially as shown.

170,297
ARTICLE OF LUGGAGE
Jack Brier, Merion, Pa., E. Malcolm Belber, Smyrna, Del., Merton Kolson, Havertown, Pa., and John H. Walter, Grosse Pointe, Mich., assignors to Belber Trunk & Bag Company, Philadelphia, Pa., a corporation of New Jersey
Application September 4, 1952, Serial No. 21,334
Term of patent 14 years
(Cl. D87—5)



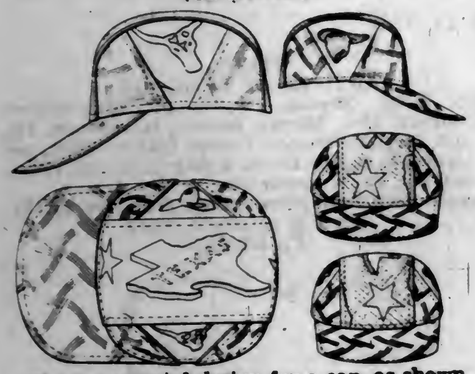
The ornamental design for an article of luggage, substantially as shown.

170,298
CAP
Mary Briers, Houston, Tex.
Application March 4, 1953, Serial No. 23,296
Term of patent 14 years
(Cl. D3—13)



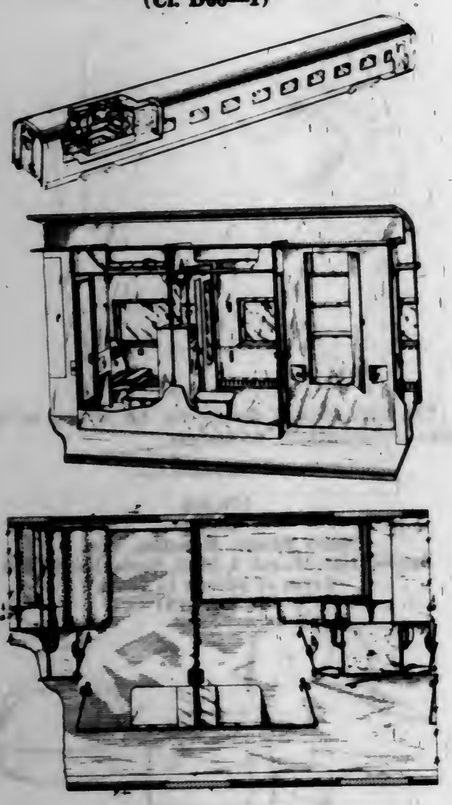
The ornamental design for a cap, as shown.

170,399
CAP
Mary Briers, Houston, Tex.
Application March 4, 1953, Serial No. 23,891
Term of patent 14 years
(Cl. D3—13)

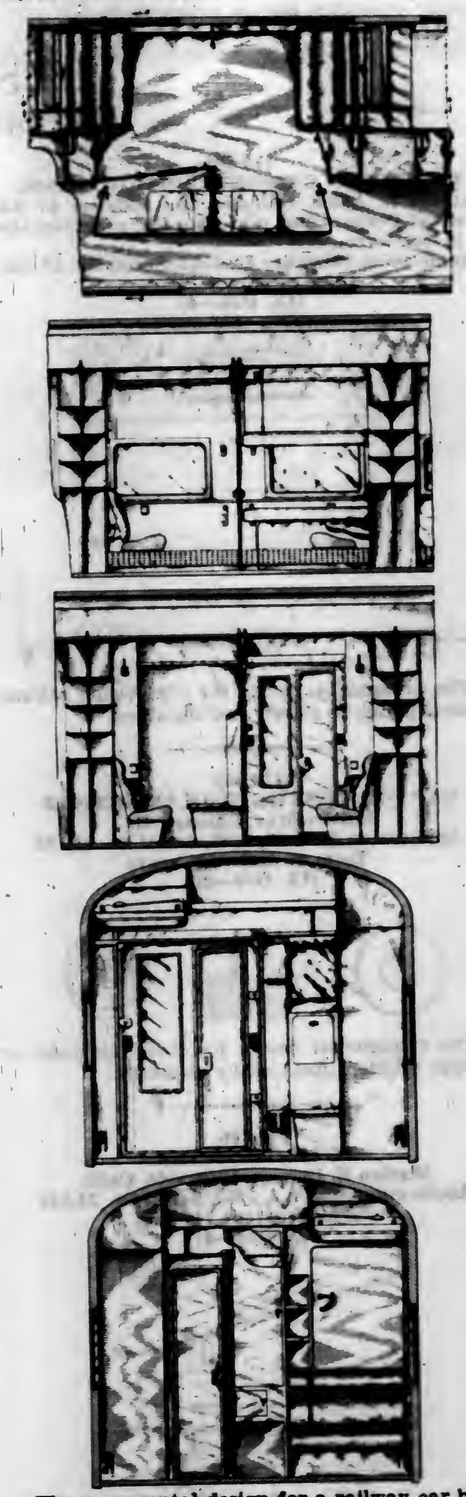


The ornamental design for a cap, as shown.

170,400
RAILWAY CAR BODY
James E. Candlin, Jr., Hammond, Ind., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application May 4, 1951, Serial No. 15,068
Term of patent 14 years
(Cl. D66—1)



170,400—Continued



The ornamental design for a railway car body, substantially as shown and described.

170,401
COMBINED MOTOR, BLOWER, AND COVER FOR A VACUUM CLEANER HOUSING
John J. Cinelli, Chicago, Ill., assignor to Breuer Electric Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application June 5, 1953, Serial No. 25,335
Term of patent 14 years
(Cl. D9—2)



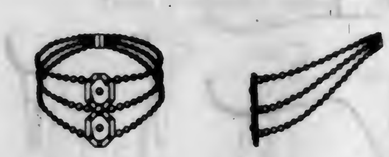
The ornamental design for a combined motor, blower, and cover for a vacuum cleaner housing, substantially as shown.

170,402
CHILD'S HANDBAG
Barnett David, Brooklyn, N. Y.
Application March 26, 1953, Serial No. 24,210
Term of patent 7 years
(Cl. D87—3)



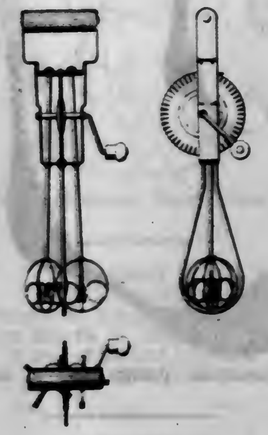
The ornamental design for a child's handbag, substantially as shown.

170,403
BRACELET OR SIMILAR ARTICLE
Georges de Saint-Germain, Long Beach, Calif.
Application January 2, 1952, Serial No. 17,904
Term of patent 3½ years
(Cl. D45—4)



The ornamental design for a bracelet or similar article, substantially as shown.

170,404
HAND-OPERATED FOOD MIXER
Clarence E. Elliott, Kansas City, Kans.
Application April 20, 1953, Serial No. 24,584
Term of patent 14 years
(Cl. D44—1)



The ornamental design for a hand-operated food mixer, as shown.

170,405
STOCKING
Max Fisher, Lower Alsace Township, Berks County, Pa.
Application June 5, 1953, Serial No. 25,325
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a stocking, as shown.

170,406
STOCKING
Max Fisher, Lower Alsace Township, Berks County, Pa.
Application June 5, 1953, Serial No. 25,326
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a stocking, as shown.

170,407
STOCKING
Max Fisher, Lower Alsace Township, Berks County, and George J. Eligman, Mount Penn, Pa.
Application June 11, 1953, Serial No. 25,437
Term of patent 14 years
(Cl. D47—7)



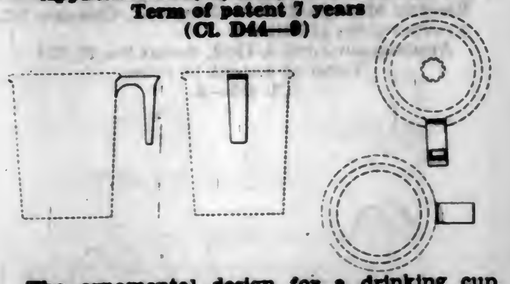
The ornamental design for a stocking, as shown.

170,408
HEXAGON CAPPED NUT
Otto Gries, New Rochelle, N. Y.
Application February 18, 1952, Serial No. 18,570
Term of patent 14 years
(Cl. D54—7)



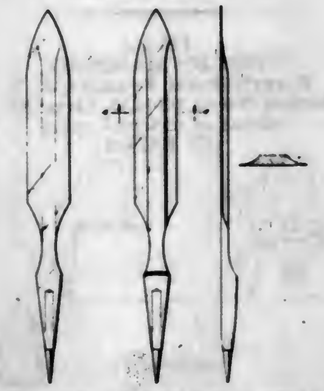
The ornamental design for a hexagon capped nut, as shown.

170,409
DRINKING CUP
John Robinson Hare, Niagara Falls, N. Y.
Application July 6, 1951, Serial No. 15,776
Term of patent 7 years
(Cl. D44—9)



The ornamental design for a drinking cup, substantially as shown and described.

170,410
COMBINED LETTER OPENER AND PENCIL
Philip R. Herwitch, Leominster, Mass., assignor to Paramount Manufacturing Company, Leominster, Mass., a corporation of Massachusetts
Application May 22, 1952, Serial No. 19,235
Term of patent 14 years
(Cl. D74—1)



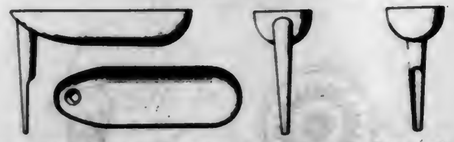
The ornamental design for a combined letter opener and pencil, as shown.

170,411
HAND DISPENSING DEVICE FOR SMALL ELEMENTS
Eric Ischinger, Sr., Reading, Pa.
Application June 7, 1952, Serial No. 20,074
Term of patent 14 years
(Cl. D52—2)



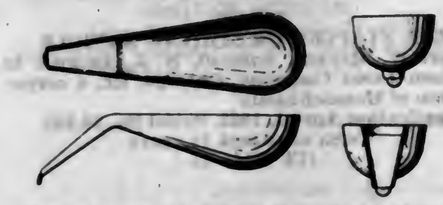
The ornamental design for a hand dispensing device for small elements, as shown.

170,412
HAND DISPENSING DEVICE FOR SMALL ELEMENTS
Eric Ischinger, Sr., Reading, Pa.
Application June 7, 1952, Serial No. 20,075
Term of patent 14 years
(Cl. D52—2)



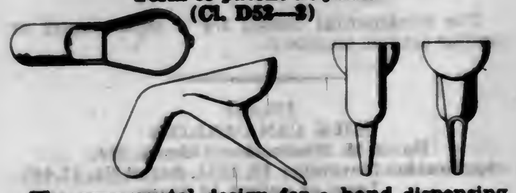
The ornamental design for a hand dispensing device for small elements, as shown.

170,413
HAND DISPENSING DEVICE FOR SMALL ELEMENTS
Eric Ischinger, Sr., Reading, Pa.
Application June 7, 1952, Serial No. 20,076
Term of patent 14 years
(Cl. D52—2)



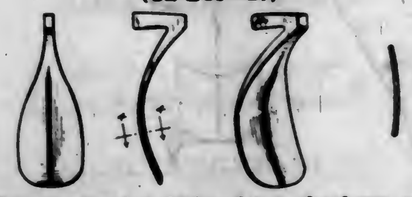
The ornamental design for a hand dispensing device for small elements, as shown.

170,414
HAND DISPENSING DEVICE FOR SMALL ELEMENTS
Eric Ischinger, Sr., Reading, Pa.
Application June 7, 1952, Serial No. 20,077
Term of patent 14 years
(Cl. D52—2)



The ornamental design for a hand dispensing device for small elements, as shown.

170,415
SHOEHORN OR THE LIKE
Thure Jaderberg, Jr., Lindsborg, Kans.
Application June 3, 1953, Serial No. 25,301
Term of patent 7 years
(Cl. D86—10)



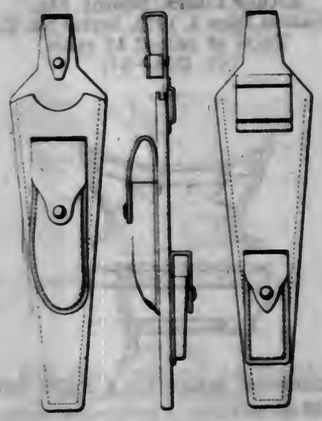
The ornamental design for a shoehorn or the like, substantially as shown.

170,416
CHILD'S SUNDRESS
Eleanor Kairalla, New York, N. Y.
Application May 3, 1952, Serial No. 19,574
Term of patent 14 years
(Cl. D2—26)



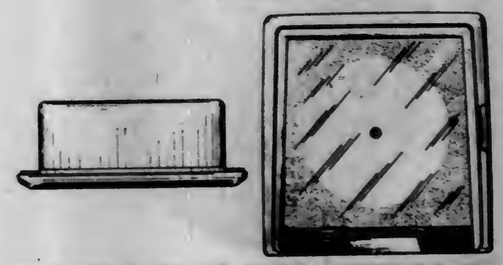
The ornamental design for a child's sundress, as shown.

170,417
SCABBARD
Russell D. Knapp, Elko, Nev.
Application March 12, 1953, Serial No. 24,661
Term of patent 14 years
(Cl. D22—6)



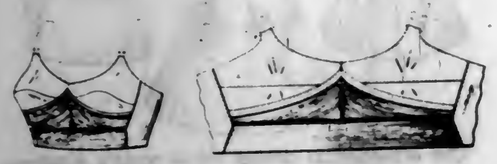
The ornamental design for a scabbard, as shown.

170,418
INSTRUMENT CASE OR SIMILAR ARTICLE
Jacob Labe III, Philadelphia, Pa., assignor to Robertshaw-Fulton Controls Company, Greensburg, Pa., a corporation of Delaware
Application December 11, 1952, Serial No. 22,626
Term of patent 14 years
(Cl. D52—2)



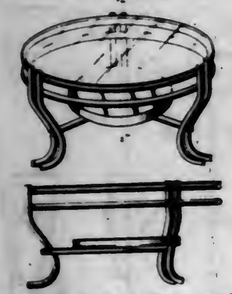
The ornamental design for an instrument case or similar article, as shown.

170,419
BRASSIÈRE
Jack J. Lo Cascio, Bayonne, N. J., assignor to Even-Pul Foundations, Inc., New York, N. Y., a corporation of New York
Application May 11, 1953, Serial No. 24,939
Term of patent 14 years
(Cl. D26—4)



The ornamental design for a brassière, as shown and described.

170,420
COFFEE TABLE
Arthur Luhrs, Miami, Fla.
Application June 1, 1953, Serial No. 25,273
Term of patent 14 years
(Cl. D33—14)



The ornamental design for a coffee table, substantially as shown.

170,421
WHEEL COVER OR SIMILAR ARTICLE
George Albert Lyon, Detroit, Mich.
Application May 18, 1953, Serial No. 25,044
Term of patent 14 years
(Cl. D14—30)



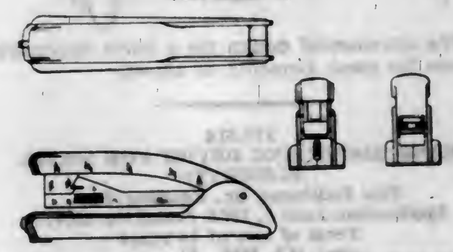
The ornamental design for wheel cover or similar article, substantially as shown and described.

170,422
WHEEL COVER OR SIMILAR ARTICLE
George Albert Lyon, Detroit, Mich.
Application May 18, 1953, Serial No. 25,045
Term of patent 14 years
(Cl. D14—30)



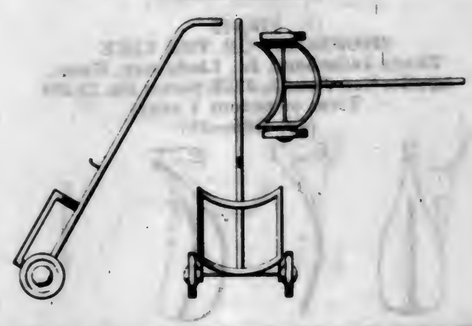
The ornamental design for a wheel cover or similar article, substantially as shown and described.

170,423
DESK STAPLER OR SIMILAR ARTICLE
Herbert W. Marano, Summit, N. J., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Application April 3, 1953, Serial No. 24,345
Term of patent 14 years
(Cl. D74—1)



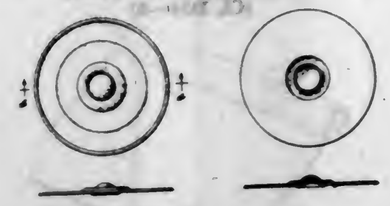
The ornamental design for a desk stapler or similar article, as shown.

170,424
MILK CAN CARRIER
David M. Mestmaker, Odessa, Mo.
Application November 19, 1951, Serial No. 17,467
Term of patent 14 years
(Cl. D14—3)



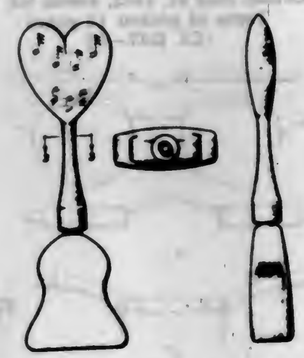
The ornamental design for a milk can carrier, as shown.

170,425
SUCTION SINK STOPPER
Garry J. Menahan, Jr., Bridgeport, Conn.
Application November 29, 1952, Serial No. 22,498
Term of patent 14 years
(Cl. D91—1)



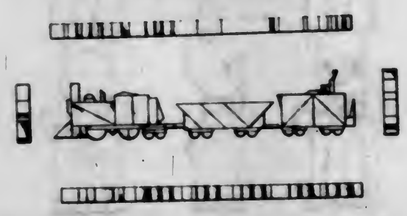
The ornamental design for a suction sink stopper, substantially as shown.

170,426
COMBINED BOTTLE AND APPLICATOR OR SIMILAR ARTICLE
Helen M. Mullen, Seattle, Wash.
Application February 16, 1953, Serial No. 23,629
Term of patent 7 years
(Cl. D58—6)



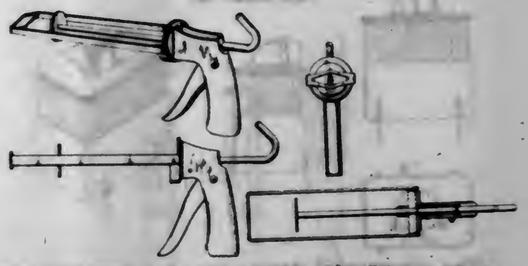
The ornamental design for a combined bottle and applicator or similar article, as shown and described.

170,427
TOY TRAIN BLOCK PUZZLE
George Petersen, Los Angeles, Calif.
Application April 22, 1952, Serial No. 19,430
Term of patent 3½ years
(Cl. D34—15)



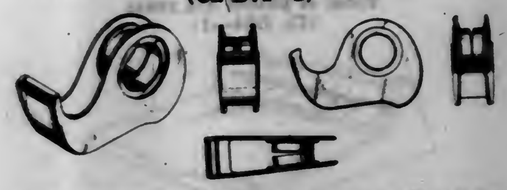
The ornamental design for a toy train block puzzle, substantially as shown.

170,428
CALKING GUN
Wilber P. Peterson, Kansas City, Mo.
Application September 25, 1952, Serial No. 21,579
Term of patent 14 years
(Cl. D46—1)



The ornamental design for a calking gun, as shown.

170,429
TAPE DISPENSER
Jean Otis Reinecke, Chicago, Ill., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application October 26, 1951, Serial No. 17,181
In the Union of South Africa May 7, 1951
Term of patent 14 years
(Cl. D74—1)



The ornamental design for a tape dispenser, as shown.

170,430
BIB OR SIMILAR ARTICLE
Leo Rudin, Passaic, N. J.
Application November 8, 1952, Serial No. 22,198
Term of patent 7 years
(Cl. D3—26)



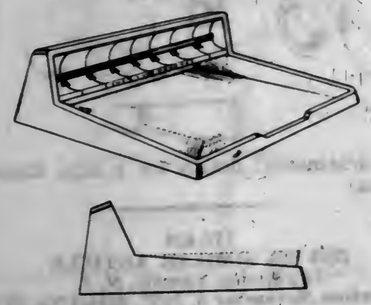
The ornamental design for a bib or similar article, substantially as shown.

170,431
AUTOMOBILE AIR COOLER
William J. Stels and Alfons Glassenhart, Phoenix, Ariz.
Application April 6, 1953, Serial No. 24,379
Term of patent 14 years
(Cl. D62—4)



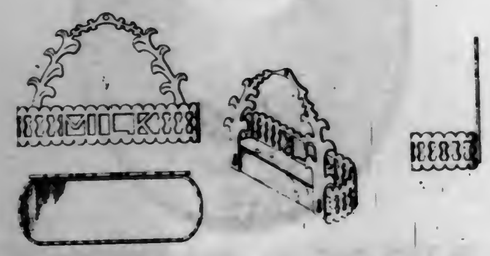
The ornamental design for an automobile air cooler, as shown and described.

170,432
COMBINED THERMOMETER AND HOLDER FOR A SCRATCH-PAD OR THE LIKE
Read Viemeister, Yellow Springs, Ohio, assignor to Read Viemeister and J. Budd Steinhilber, copartners, doing business as Vie Design Studios, Yellow Springs, Ohio
Application October 8, 1952, Serial No. 21,750
Term of patent 3½ years
(Cl. D74—1)



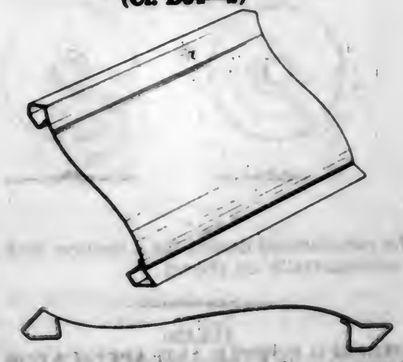
The ornamental design for a combined thermometer and holder for a scratch pad or the like, substantially as shown and described.

170,433
BOTTLE RACK
Alma L. Wahren, Carrington, N. Dak.
Application June 26, 1953, Serial No. 25,667
Term of patent 7 years
(Cl. D58—4)



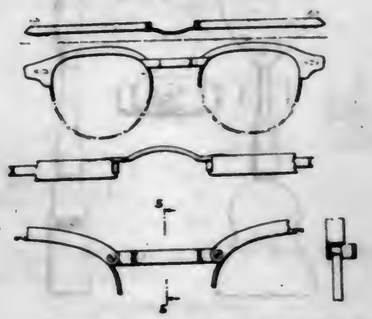
The ornamental design for a bottle rack, as shown.

170,434
LOUVER PANEL
Esmond Walthall, San Marino, Calif., assignor to The Kawneer Company, Niles, Mich., a corporation of Michigan
Application March 24, 1953, Serial No. 24,176
Term of patent 14 years
(Cl. D54—3)



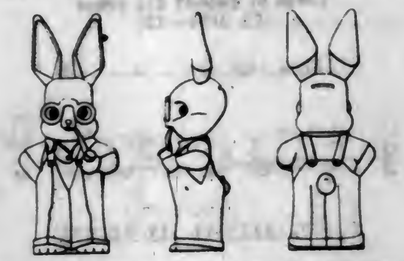
The ornamental design for a louver panel, as shown.

170,435
SPECTACLE FRONT
Harry Weissman, New Hyde Park, N. Y.
Application July 21, 1952, Serial No. 20,706
Term of patent 14 years
(Cl. D57—1)



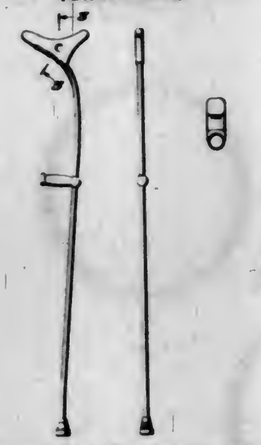
The ornamental design for a spectacle front, substantially as shown and described.

170,436
TOY FIGURE
Leo L. White, Beverly Hills, Calif.
Application April 13, 1953, Serial No. 24,477
Term of patent 7 years
(Cl. D34—2)



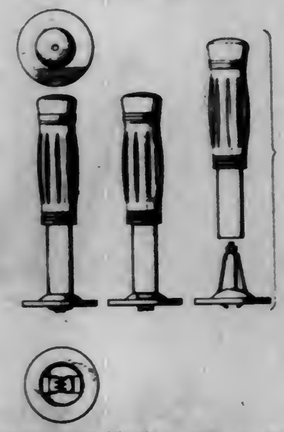
The ornamental design for a toy figure, substantially as shown.

170,437
CRUTCH
Lorin A. Wood, Los Angeles, Calif.
Application April 22, 1953, Serial No. 24,613
Term of patent 14 years
(Cl. D62—1)



The ornamental design for a crutch, substantially as shown.

170,438
SCOURING PAD HOLDER
Samuel Ziskind, New York, N. Y.
Application February 2, 1953, Serial No. 23,383
Term of patent 14 years
(Cl. D9—2)



The ornamental design for a scouring pad holder, substantially as shown.





September 22, 1953 Volume 674 Number 4

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

SINCLAIR WEEKS, *Secretary*

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ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business Sept. 4, 1953

Total number of patent applications awaiting action, 102,284. Date of oldest new application, November 6, 1952; date of oldest amended application, November 7. 1952.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) KEELY, J. E.			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	12-17-52	12-18-52	1336
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	12-8-52	12-10-52	1226
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	1-12-53	1-13-53	1910
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	12-19-52	12-19-52	1548
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	12-29-52	12-29-52	902
6. SURLE, H., Carbon Chemistry (part)	11-6-52	11-7-52	2767
7. GONSALVES, J. E., Optics; Photography (part)	12-17-52	12-13-52	1732
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	1-2-53	1-2-53	1564
9. BRANSON, J. H., Pumps and Fans; Fluid Meters	12-19-52	12-16-52	1245
10. REYNOLDS, E. R. (NEFF, P. R., Acting), Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	1-12-53	1-6-53	1322
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	12-22-52	12-16-52	1173
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	12-19-52	12-8-52	1240
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	11-26-52	11-24-52	1209
14. MANIAN, J. C., Fluid Pressure Brake; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	12-26-52	12-23-52	1472
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	12-3-52	12-4-52	1666
16. LOVEWELL, N. N., Television; Telepathy; Recorders	12-4-52	12-4-52	1813
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	12-16-52	12-19-52	1501
18. KURZ, J. A., Power Plants; Speed Responsive Devices	1-7-53	12-24-52	719
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	12-4-52	12-4-52	1166
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	1-5-53	1-6-53	1267
21. MADER, R. C., Textiles	12-5-52	12-9-52	1267
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	12-22-52	12-29-52	1008
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	12-6-52	12-4-52	944
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing	2-9-53	2-6-53	1081
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	12-1-52	12-1-52	1262
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	1-5-53	1-6-53	1945
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	12-12-52	12-17-52	1226
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	12-22-52	1-7-53	1157
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	12-12-52	12-5-52	1052
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	2-16-53	2-16-53	1263
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	12-3-52	12-5-52	2804
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	1-9-53	1-6-53	1288
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	12-11-52	12-6-52	1915
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	12-8-52	12-5-52	1278
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	1-27-53	1-26-53	1320
36. McFADYEN, A. D., Measuring and Testing	12-17-52	12-17-52	1120
37. LEVY, M. L., Electricity-Switches, Welding, Heating	1-19-53	1-21-53	1092
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	1-7-53	1-7-53	1529
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handing (part)	2-4-53	2-5-53	1616
40. DRUMMOND, E. J., Receptacles (part); Packages	2-9-53	2-9-53	948
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	1-7-53	1-7-53	1612

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors.	12-4-52	12-4-52	2115
43. KNIGHT, W. G. (Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	12-1-52	11-29-52	1894
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	12-24-52	12-22-52	1379
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	12-5-52	12-5-52	1169
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	12-11-52	12-8-52	1647
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	12-4-52	12-4-52	2190
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	12-22-52	12-18-52	1425
50. BENGEL, W. G., Synthetic Resins; Rubber	3-3-53	2-27-53	1714
51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics.	12-29-52	12-26-52	1651
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	1-15-53	1-13-53	1964
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	12-31-52	1-9-53	1031
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	12-17-52	12-15-52	1817
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	1-2-53	12-19-52	1020
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	1-21-53	1-14-53	1331
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	1-2-53	1-2-53	1761
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	12-5-52	12-8-52	1416
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	1-5-53	1-5-53	1408
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	1-15-53	1-22-53	936
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	1-9-53	1-6-53	1186
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	12-6-52	12-6-52	2022
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	12-19-52	12-20-52	1660
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	1-5-53	1-7-53	325
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	12-31-52	1-9-53	1620
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	1-15-53	1-14-53	1491
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Illumination	12-24-52	12-12-52	1720
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	11-14-52	11-15-52	3611
DESIGNS: A—BREHM, G. L., Industrial Arts	4-22-53	5-4-53	1070
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	4-30-53	5-4-53	966

Number of new applications received week ending August 14, 1953

PATENTS 1,372 DESIGNS 103 REISSUES 4 TOTAL 1,479

Total number of trade-mark applications awaiting action (including renewals and republications), 11,146. Date of oldest new application, April 9, 1953; date of oldest amended application, April 8, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12; 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	4-10-53	4-13-53	2048
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	4-9-53	4-9-53	2004
Renewals (All Classes)	7-3-53	8-5-53	427
Republications (All Classes)	6-30-53	8-18-53	270
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	4-22-53	4-27-53	2406
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	4-15-53	4-10-53	2068

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

A. M. S. Corporation, South Norwalk, Conn. Window sash. Serial No. 643,995, Sept. 22. Class 12.

Ace Iron Works: *See*—
Cartwright, Cecil E.

Aerotherm Corporation, The Bantam, Conn. Aircraft seats. Serial No. 648,344, Sept. 22. Class 19.

Ainsworth Manufacturing Corporation, Detroit, Mich. Structural materials. Serial No. 626,721, Sept. 22. Class 12.

Airex Corporation, New York, N. Y. Fishing and spinning reels, fishing and spinning rods, etc. Serial No. 649,860, Sept. 22. Class 22.

Akron Accordian Center: *See*—
Munarra, Rosario.

Allied Commercial Corp., New York, N. Y. Electrically heated irons for massage and heat treatment. Serial No. 636,957, Sept. 22. Class 44.

Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Vibrating screens. Serial No. 616,582, Sept. 22. Class 23.

Amer, William, Company, Philadelphia, Pa. Leather. Serial No. 642,796, Sept. 22. Class 1.

American Automatic Devices Co., Chicago, Ill. Automotive accessories. Serial No. 614,644, Sept. 22. Class 19.

American Cyanamid Company, New York, N. Y. Vitamin-mineral preparation. Serial Nos. 644,000–1, Sept. 22. Class 18.

American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Oakum. Serial No. 641,489, Sept. 22. Class 1.

Andes Fruit & Produce Corp., New York, N. Y. Fresh and canned cherries, apples, pears, etc. Serial No. 609,469, Sept. 22. Class 46.

Anthes Force Oiler Company, Fort Madison, Iowa. Highway warning signal device. Serial No. 576,839, Sept. 22. Class 34.

Arrow Safety Device Company, Mount Holly, N. J. Electrical directional signals. Serial No. 631,089, Sept. 22. Class 21.

Arthur-Sampson Enterprises, Inc., Cincinnati, Ohio. Entertainment services. Serial No. 641,161, Sept. 22. Class 107.

Associated Dye & Print Co. Inc., Paterson, N. J. Treating textile fabrics. Serial No. 641,664, Sept. 22. Class 106.

Ateliers de Constructions Electriques de Charlerol (Societe Anonyme), Brussels and Charlerol, Belgium. Electrically operated magnetic recording and reproducing dictating machines and component parts thereof, etc. Serial No. 642,922, Sept. 22. Class 21.

Bachmann Bros., Inc., Philadelphia, Pa. Sun glasses. Serial Nos. 644,954–5, Sept. 22. Class 26.

Barr Bros. Co.: *See*—
Haycraft, S. E.

Barwick, E. T., Mills: *See*—
Barwick, Eugene T.

Barwick, Eugene T., doing business as E. T. Barwick Mills, Chamblee, Ga. Cotton rugs and carpeting. Serial No. 646,353, Sept. 22. Class 42.

Beacon Manufacturing Company, Swannanoa, N. C. Blankets. Serial No. 644,957, Sept. 22. Class 42.

Beaunit Mills, Inc., New York, N. Y. Thread and yarn. Serial Nos. 635,739–40, Sept. 22. Class 43.

Beautee-Fit Company, Los Angeles, Calif. Brassières, foundation garments, girdles, etc. Serial No. 634,442, Sept. 22. Class 39.

Bedford Shirt Corp., New York, N. Y. Men's and boys' sport shirts, sport jackets and sport slacks. Serial No. 644,958, Sept. 22. Class 39.

Bemis Bro. Bag Company, St. Louis, Mo. Bags. Serial No. 599,360, Sept. 22. Class 2.

Binney & Smith Company, New York, N. Y. Water color brushes. Serial No. 637,262, Sept. 22. Class 29.

Blue Ridge Manufacturers, Incorporated, Baltimore, Md. Men's and boys' trousers, coats, overalls, etc. Serial No. 641,904, Sept. 22. Class 39.

Booth Fisheries Corporation, Chicago, Ill. Fresh and frozen shrimp. Serial No. 642,935, Sept. 22. Class 46.

Booth Fisheries Corporation, Chicago, Ill. Fresh and frozen shrimp. Serial No. 643,460, Sept. 22. Class 46.

Bracken, L. D.: *See*—
Bracken, Louis D.

Bracken, Louis D., doing business as L. D. Bracken, Seattle, Wash. Lotion for the treatment of the human scalp. Serial No. 637,171, Sept. 22. Class 18.

Brand, Charles, and Sons, New York, N. Y. Men's hosiery. Serial No. 642,609, Sept. 22. Class 39.

Brand, Julius, Leather Co., Inc., Newark, N. J. Real leather. Serial No. 630,496, Sept. 22. Class 1.

Brandenfels, Carl St. Helens, Oreg. Massaging and manipulating devices. Serial No. 643,278, Sept. 22. Class 44.

Bronislawa: *See*—
Wolocko, Bronislawa.

California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif. Compounds used as soil amendments and soil correctives. Serial No. 638,831, Sept. 22. Class 10.

Cal Tek Industries: *See*—
Smith, R. Edward.

Camfield Manufacturing Company, Grand Haven, Mich. Electric blankets, electric sheets, and electric quilts. Serial No. 646,265, Sept. 22. Class 21.

Campbell, Harry T., Sons' Corp., Towson, Md. Calcite preparation. Serial No. 640,905, Sept. 22. Class 1.

Capp, A., & Son Limited, Crayford, Kent, England. Dimension gauges. Serial No. 644,896, Sept. 22. Class 26.

Cartwright, Cecil E., doing business under the name of Ace Iron Works, Corpus Christi, Tex. Trailers for hauling boats, trailers for hauling general merchandise, etc. Serial No. 634,397, Sept. 22. Class 19.

Casati Ernesto & Figli-Caser, Milan and Pavia, Italy. Radial drills, special boring machines, lathes and sewing machines. Serial No. 635,110, Sept. 22. Class 23.

Cast Iron Soil Pipe Institute, The, Washington, D. C. Cast iron soil pipe and pipe fittings. Serial No. 644,732, Sept. 22. Class 13.

Ceramatex Manufacturing Corporation, Birmingham, Ala. Paint. Serial No. 629,353, Sept. 22. Class 16.

Coler, Myron A., doing business as The Markite Company, New York, N. Y. Insulators. Serial No. 644,898, Sept. 22. Class 21.

Consolidated Badger Cooperative, doing business as Consolidated Badger, Inc., Shawano, Wis. Non-fat dry milk solids. Serial No. 625,968, Sept. 22. Class 46.

Consolidated Badger, Inc.: *See*—
Consolidated Badger Cooperative.

Crookes Laboratories, Inc., Mineola, N. Y. Relaxant-sedative preparation. Serial No. 637,038, Sept. 22. Class 18.

Dance Records, Inc., New York, N. Y. Grooved phonograph records. Serial No. 635,349, Sept. 22. Class 36.

Daxian's, Inc. New York, N. Y. Decorative streamers. Serial No. 630,392, Sept. 22. Class 50.

Dittmer Gear and Manufacturing Corp., Lockport, N. Y. Spur and helical gears, shafts, hubs, etc. Serial No. 629,657, Sept. 22. Class 23.

DoAll Company, The, Des Plaines, Ill. Gaging instruments and attachments therefor. Serial No. 630,397, Sept. 22. Class 26.

Draper & Emerick, Pittsburgh, Pa. Nuts and bolts, wood screws, nails, etc. Serial No. 638,701, Sept. 22. Class 13.

Dresser Stacey Company, Columbus, Ohio. Metallic cable racks. Serial Nos. 638,406–7, Sept. 22. Class 13.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Polyester film. Serial No. 643,473, Sept. 22. Class 1.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Polyethylene film. Serial No. 643,474, Sept. 22. Class 1.

Duroloid Optical Company, Providence, R. I. Optical frames. Serial Nos. 643,825–6, Sept. 22. Class 26.

Eagle-Flagg Tanning Corporation, New York, N. Y. Leather. Serial No. 642,023, Sept. 22. Class 1.

Eastern Knitwear Co., Inc., New York, N. Y. Ladies' sweaters. Serial No. 643,667, Sept. 22. Class 39.

Eastern Television Productions: *See*—
Lederach, Franklin L.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Vitamin compounds and vitamin preparations. Serial No. 643,669, Sept. 22. Class 18.

Edwards & Gravely Company, Martinsville, Va. Glass cleaning fluid. Serial No. 625,724, Sept. 22. Class 52.

Electric Sprayit Company, The, Sheboygan, Wis. Vacuum and pressure air pumps, spray guns, air and gas compressors and parts therefor. Serial No. 629,996, Sept. 22. Class 23.

Fairchild Engine and Airplane Corporation, Farmingdale, N. Y. Propellers. Serial No. 620,843, Sept. 22. Class 19.

Ferrell, A. T., & Co., Saginaw, Mich. Machines for the handling, cleaning, grading, and treating of seeds and grain. Serial No. 618,735, Sept. 22. Class 23.

Flat Metal Manufacturing Company, Franklin Park, Ill. Shower cabinets. Serial No. 644,749 Sept. 22. Class 13.

Fitzgibbons Co., Framingham, Mass. Misses' rain coats and capes. Serial No. 644,400, Sept. 22. Class 39.

Frielich Brothers Corporation New York, N. Y. Men's, women's, and children's visors. Serial No. 636,279. Sept. 22. Class 39.

Frielich Brothers Corporation, New York, N. Y. Men's, women's, and children's visors. Serial No. 636,281, Sept. 22. Class 39.

Fuller, D. B., & Co., Inc., New York, N. Y. Cotton fabrics. Serial No. 645,796, Sept. 22. Class 42.

Gamma Records, Inc., St. Louis, Mo. Grooved phonograph records. Serial No. 644,969, Sept. 22. Class 36.
Glorion Corporation of America, Beverly Hills, Calif. Facial oil. Serial No. 587,437, Sept. 22. Class 51.
Goodall-Sanford, Inc., Sanford, Maine. Piece goods. Serial Nos. 646,380–2, Sept. 22. Class 42.
Goodall-Sanford, Inc., Sanford, Maine. Piece goods. Serial Nos. 646,383–7, Sept. 22. Class 42.
Goodman & Suss Clothes Corporation, New York, N. Y. Men's and young men's top coats, sport coats, and overcoats. Serial No. 644,413, Sept. 22. Class 39.
Gramercy Cane Wax Plant: *See*— Johnson, S. C., & Son, Inc.
Greater Pittsburgh T.-V. Company, Inc., Pittsburgh, Pa. Rebuilt television picture tubes. Serial No. 646,612, Sept. 22. Class 21.
Grush, Arthur, Brooklyn, N. Y. Wallets of sanitary napkins. Serial No. 631,353, Sept. 22. Class 44.
Håkanssons, P., Konserver Aktiebolag, Eslov, Sweden. Fruit and berry preserves, jams, marmalades, etc. Serial No. 601,486, Sept. 22. Class 46.
Harvard Manufacturing Company, The, Cleveland, Ohio. Brackets for use in securing bed headboards to bedframes. Serial No. 645,146, Sept. 22. Class 13.
Haycraft, S. E., doing business as Barr Bros. Co., Oakland, Calif. Hand tools. Serial No. 629,371, Sept. 22. Class 23.
Hebb Leather Co., Inc., Boston, Mass. Leather. Serial No. 643,762, Sept. 22. Class 1.
Hill & Griffith Company, The, Cincinnati, Ohio. Pulverized furfural residue. Serial No. 642,076, Sept. 22. Class 1.
Hird, Samuel, & Sons, Inc., Garfield, N. J., and New York, N. Y. Suiting fabrics. Serial No. 646,393, Sept. 22. Class 42.
Hirschman, Maude, San Pedro, Calif. Medicated preparation. Serial No. 634,410, Sept. 22. Class 18.
Hobbs Battery Company, Oakland, Calif. Storage batteries. Serial No. 631,665, Sept. 22. Class 21.
Hohner, M., Inc., New York, N. Y. Harmonicas. Serial No. 639,933, Sept. 22. Class 36.
Holeproof Hosiery Company, Milwaukee, Wis. Men's hosiery. Serial No. 643,840, Sept. 22. Class 39.
Holt Hardwood Company, Oconto, Wis. Wood flour. Serial No. 643,490, Sept. 22. Class 1.
Hydramotive, Inc., Cleveland, Ohio. Hydraulically operated cranking motors. Serial No. 643,958, Sept. 22. Class 23.
Industrial Electronics Corporation, Newark, N. J. Fluorescent lamps, incandescent lamps, fluorescent starters and fluorescent ballasts. Serial No. 646,216, Sept. 22. Class 21.
Instituto de Biologia y Sueroterapia, Madrid, Spain. Pharmaceutical preparation. Serial No. 621,518, Sept. 22. Class 18.
International Milling Company, Minneapolis, Minn. Wheat flour. Serial No. 644,305, Sept. 22. Class 46.
International Minerals & Chemical Corporation, Chicago, Ill. Blend of clays to mix with molding sand. Serial No. 625,204, Sept. 22. Class 1.
International Projector Corporation, Bloomfield, N. J., assignee of Sec-O-Matic Corporation. Solvent recovery machines for recovering cleaning solvents in dry cleaning operations. Serial No. 602,340, Sept. 22. Class 24.
International Shoe Company, St. Louis, Mo. Shoes. Serial No. 616,292, Sept. 22. Class 39.
Jackson Electrical Instrument Company, The, Dayton, Ohio. Tube testers, radio and television testing instruments. Serial No. 643,590, Sept. 22. Class 26.
Johns-Manville Corporation, New York, N. Y. Asbestos sheets for electrical insulation. Serial No. 628,279, Sept. 22. Class 21.
Johns-Manville Corporation, New York, N. Y. Asbestos sheets for electrical insulation. Serial No. 629,800, Sept. 22. Class 21.
Johnson, S. C., & Son, Inc., doing business as Gramercy Cane Wax Plant, Racine, Wis. Sugar cane wax for industrial purposes. Serial Nos. 630,076–83, Sept. 22. Class 6.
Junex Products, Chicago, Ill. Antibiotic dietary supplement. Serial No. 633,616, Sept. 22. Class 18.
Kanium Corporation, Chicago, Ill. Expanded and spherulized clay products. Serial No. 637,447, Sept. 22. Class 12.
Kauffman, William H., Waterman, Ill. Fresh dressed poultry, poultry feed and livestock feed. Serial No. 622,720, Sept. 22. Class 46.
Koch Manufacturing Company: *See*— Peters & Russell, Inc.
Kuppenheimer, B., and Co. Inc., Chicago, Ill. Men's outer coats. Serial No. 643,552, Sept. 22. Class 39.
La Monte, George, & Son, Nutley, N. J. Safety paper. Serial No. 626,514, Sept. 22. Class 37.
Lampes et Entreprises Electriques, Ninove, Belgium. Electric lamps. Serial No. 645,993, Sept. 22. Class 21.
Las-Silk Manufacturing Co., The, Hamilton, Ohio. Polishing cloths. Serial No. 648,111–12, Sept. 22. Class 29.
Lebow Bros., Inc., Baltimore, Md. Men's suits and sports coats. Serial No. 644,850, Sept. 22. Class 39.
Lederach, Franklin L., doing business as Eastern Television Productions, Philadelphia, Pa. Entertainment service. Serial No. 646,144, Sept. 22. Class 107.
Lincoln Electric Company, The, Cleveland, Ohio. Push button switches in electric arc welding. Serial No. 601,221, Sept. 22. Class 21.
Magnaflux Corporation, Chicago, Ill. Electrical instruments for detecting flaws or irregularities in metallic or conductive objects, etc. Serial No. 633,371, Sept. 22. Class 26.
Maguire, Harold V., Jamaica, N. Y. General insurance brokerage. Serial No. 601,635, Sept. 22. Class 102.
Maison Duffée Inc., New York, N. Y. Shawls or stoles. Serial No. 643,968, Sept. 22. Class 39.
Malloy Laboratories, Inc., San Diego, Calif. Deodorising powder. Serial No. 639,946, Sept. 22. Class 51.
Markite Company, The: *See*— Coler, Myron A.
Marshall-Wells Company, Duluth, Minn. Base balls, basket balls, foot balls, etc. Serial No. 649,800, Sept. 22. Class 22.
Master Matrix Service Company, Inc., New York, N. Y. Matrices. Serial No. 628,360, Sept. 22. Class 50.
Mathieson Chemical Corporation, assignee: *See*— Squibb, E. R., & Sons.
Mathieson Chemical Corporation, New York, N. Y. Preparation for increasing diffusion and adsorption of parenteral solutions. Serial No. 643,846, Sept. 22. Class 18.
McCallister and Company, assignee: *See*— McCallister, David F.
McCallister, David F., Upper Darby, assignor to McCallister and Company, Cheltenham, Pa. Frozen snapper soup. Serial No. 600,729, Sept. 22. Class 46.
McDerby-Conatser Boat Manufacturers, Denison, Tex. Outboard motor boats. Serial No. 634,748, Sept. 22. Class 19.
Mercantile Stores Company, Inc., Wilmington, Del. Women's hosiery. Serial No. 608,508, Sept. 22. Class 39.
Merck & Co., Inc., Rahway, N. J. Antibiotics and antibiotic preparations. Serial No. 644,129, Sept. 22. Class 18.
Merit Clothing Company, Mayfield, Ky. Men's topcoats. Serial No. 644,770, Sept. 22. Class 39.
Metropolitan-Vickers Electrical Company Limited, London, England. Steam turbines and parts thereof; internal combustion turbines and parts thereof, etc. Serial No. 591,790, Sept. 22. Class 23.
Metropolitan-Vickers Electrical Company, Limited, London, England. Steam turbines and parts thereof; internal combustion turbines and parts thereof, etc. Serial No. 591,792, Sept. 22. Class 23.
Michael-Lawrence Company, Inc., Inglewood, Calif. Paints. Serial No. 644,182, Sept. 22. Class 16.
Michaels, Stern & Company, Incorporated, Rochester, N. Y. Men's and boys' clothing. Serial No. 642,564, Sept. 22. Class 39.
Midwest Plywood Company, Detroit, Mich. Textured plywood. Serial No. 592,717, Sept. 22. Class 12.
Montgomery Bros., Inc., Philadelphia, Pa. Rubber latex compounds. Serial No. 635,707, Sept. 22. Class 1.
Musarra, Rosario, doing business under the name Akron Accordian Center, Akron, Ohio. Grooved phonograph records. Serial No. 633,476, Sept. 22. Class 36.
N. V. Gerofabriek, Zeist, Netherlands. Base metal ware. Serial No. 633,265, Sept. 22. Class 13.
N. V. Kamper Emaillefabriken v/h H. Berk & Zoon, Kampen, Netherlands. Enamelled, tinned and aluminium household articles. Serial No. 613,693, Sept. 22. Class 13.
National Chemical Sales Co., Inc., Atlanta, Ga. Boiler water treatment compound. Serial No. 638,493, Sept. 22. Class 6.
National Sewing Machine Company, Belvidere, Ill. Sewing machines and attachments. Serial No. 636,374, Sept. 22. Class 23.
New England Mop Co., Central Falls, R. I. Wool dust mop. Serial No. 616,441, Sept. 22. Class 29.
New South Manufacturing Company, Atlanta, Ga. Chemical preparation for removing paints, varnishes, etc. Serial No. 636,177, Sept. 22. Class 52.
Northwestern Steel and Wire Company, Sterling, Ill. Wire cloth. Serial No. 597,692, Sept. 22. Class 13.
Paslode Company, Chicago, Ill. Staples. Serial No. 645,004, Sept. 22. Class 13.
Perez, Anthony J., New Orleans, La. Washing machines. Serial No. 627,771, Sept. 22. Class 24.
Perrysburg Laboratories, Inc., Perrysburg, Ohio. Resinous molding compositions. Serial No. 640,302, Sept. 22. Class 6.
Peter Pan Foundations, Inc., New York, N. Y. Brassières. Serial No. 646,161, Sept. 22. Class 39.
Peters & Russell, Inc., doing business as Koch Manufacturing Company, Springfield, Ohio. Automobile exhaust deflectors. Serial No. 619,257, Sept. 22. Class 23.
Peters, Thomas B. R., Kansas City, Kans. Card game. Serial No. 646,572, Sept. 22. Class 22.
Petivan, Arthur J., Jr. doing business as Sunset Music Publications, New Orleans, La. Grooved phonograph records. Serial No. 639,588, Sept. 22. Class 36.
Peyton Pharmacal Corporation, New York, N. Y. Lyophilized iodine. Serial No. 644,189, Sept. 22. Class 18.
Platt Products Corporation, Lansing, Mich. Constant level oil control valve. Serial No. 644,783, Sept. 22. Class 13.
Poor & Company, Chicago, Ill. Corrosion inhibitor. Serial No. 642,046, Sept. 22. Class 6.

Post, Frederick, Company, The, Chicago, Ill. Engineering and drafting supplies, photographic equipment, surveying equipment, etc. Serial No. 609,173, Sept. 22. Class 26.
Procter & Gamble Company, The, Cincinnati, Ohio. Permanent waving kit. Serial No. 612,522, Sept. 22. Class 51.
Radion Corporation, The, Chicago, Ill. Television antenna. Serial No. 646,312, Sept. 22. Class 21.
Refractory Insulation Corporation, New York, N. Y. Cast and castable refractories; bonding and patching mortars, etc. Serial No. 603,747, Sept. 22. Class 12.
Richmond, Earl, Toledo, Ohio. Salve for relief of piles, liniment, preparation for relief of soreness of muscles and joints, etc. Serial No. 639,340, Sept. 22. Class 18.
Roxborough Company, The, Philadelphia, Pa. Ladies' full fashioned and seamless nylon hosiery. Serial No. 643,612, Sept. 22. Class 39.
Roycemore Toiletries, Inc., doing business as Shy Products Co., Chicago, Ill. Vaginal syringes. Serial No. 646,018, Sept. 22. Class 44.
Royle, John, & Sons, Paterson, N. J. Electrically heated extruder cylinders. Serial No. 642,694, Sept. 22. Class 23.
Sarant, John, doing business under the name of Shell Sponge Co., Brooklyn, N. Y. Natural sponges, and cellulose sponges. Serial No. 641,974, Sept. 22. Class 1.
Schenley Laboratories, Inc., New York, N. Y. Cortisone acetate compound for general hormone therapy. Serial No. 644,069, Sept. 22. Class 18.
Schenley Laboratories, Inc., New York, N. Y. Combination of a sedative and ephedrine. Serial No. 644,070, Sept. 22. Class 18.
Schenley Laboratories, Inc., New York, N. Y. Somnifacient product. Serial No. 644,071, Sept. 22. Class 18.
Seamprufe Incorporated, New York, N. Y. Women's and misses' slips, bloomers, petticoats, etc. Serial No. 637,194, Sept. 22. Class 39.
Sears, Roebuck and Co., Chicago, Ill. Automobile, tractor, and motor bike parts. Serial No. 641,867, Sept. 22. Class 23.
Sec-O-Matic Corporation: *See*— International Projector Corporation.
Selby Shoe Company, The, Portsmouth, Ohio. Women's shoes. Serial No. 638,441, Sept. 22. Class 39.
Sellers Manufacturing Company, Saxapahaw, N. C. Yarn. Serial No. 646,321, Sept. 22. Class 43.
Shell Sponge Co.: *See*— Sarant, John.
Shy Products Co.: *See*— Roycemore Toiletries, Inc.
"Smith-Dorsey": *See*— Wander Company, The.
Smith, L. C., & Corona Typewriter, Inc., Syracuse, N. Y. Reconditioned typewriters. Serial No. 618,823, Sept. 22. Class 23.
Smith, R. Edward, doing business as Cal Tek Industries, Los Angeles, Calif., Chemical transparent coolant and lubricant. Serial No. 639,197, Sept. 22. Class 15.
Snyder Chemical Corporation, Bethel, Conn. Synthetic resins especially adapted for use as coatings. Serial No. 627,846, Sept. 22. Class 16.
Societe d'Optique & de Mecanique de Haute Precision, Paris, France. Photographic lenses and view finders. Serial No. 629,965, Sept. 22. Class 26.
Speer Carbon Company, St. Marys, Pa. Ceramic capacitors. Serial Nos. 646,578–9, Sept. 22. Class 21.
Sperry Corporation, The, New York and Great Neck, N. Y. Microwave plumbing. Serial No. 600,994, Sept. 22. Class 21.
Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Vitaminic and antianemic preparation. Serial No. 634,927, Sept. 22. Class 18.
Stace, Vincent A., Dearborn, Mich. Partially printed medical summary forms. Serial No. 638,818, Sept. 22. Class 37.
Standard Brands Incorporated, New York, N. Y. Instant coffee. Serial No. 642,779, Sept. 22. Class 46.
Standard Brands Incorporated, New York, N. Y. Coffee. Serial No. 644,463, Sept. 22. Class 46.
Stavert Company, Inc., The, Cambridge, Mass. Picture hangers. Serial No. 641,521, Sept. 22. Class 13.
Stern Brothers, New York, N. Y. Sanitary goods and manicure sets. Serial No. 639,507, Sept. 22. Class 44.
Stetson, John B., Company, Philadelphia, Pa. Hats and caps. Serial No. 645,198, Sept. 22. Class 39.
Storey, W. H., & Co. Ltd., Croydon, Surrey, England. Playing cards. Serial No. 644,528, Sept. 22. Class 22.
Sunset Music Publications: *See*— Petivan, Arthur J., Jr.
Supplee-Biddle-Steltz Company, Philadelphia, Pa. Bicycles. Serial No. 625,549, Sept. 22. Class 19.
Tennison Brothers, Incorporated, Memphis, Tenn., and Texarkana, Ark. Half round roofing gutter, O. G. roofing gutter, square box roofing gutter, etc. Serial No. 637,091, Sept. 22. Class 12.
Terriere, Oscar J., Rapid City, S. Dak. Tile. Serial No. 643,986, Sept. 22. Class 12.
Troutman Garment Company, Troutman, N. C. Men's work shirts. Serial No. 640,978, Sept. 22. Class 39.
United Growers, Inc., Salem, Oreg. Canned fruits, canned vegetables, canned berries, etc. Serial No. 635,860, Sept. 22. Class 46.
United Merchants and Manufacturers, Inc., New York, N. Y. Piece goods. Serial No. 645,682, Sept. 22. Class 42.
United States Hoffman Machinery Corporation, Syracuse and New York, N. Y. Self balancing extractor tumblers and combination washer-extractor tumblers and parts thereof. Serial No. 643,568, Sept. 22. Class 24.
Video-Matic Co., Inc., New York, N. Y. Electrically lighted and operated advertising display. Serial No. 624,254, Sept. 22. Class 21.
Vox Productions, Inc., New York, N. Y. Grooved phonograph records. Serial No. 638,749, Sept. 22. Class 36.
Wagner, W., Jr., Gesellschaft mit beschrankter Haftung, Plettenberg, Germany. Tuning-pins for pianos. Serial No. 638,678, Sept. 22. Class 36.
Walker, T. V., & Son, Inc., Burbank, Calif. Sliding glass doors. Serial No. 643,743, Sept. 22. Class 12.
Wander Company, The, doing business under the name "Smith-Dorsey," Chicago, Ill. Antacid preparation. Serial No. 634,064, Sept. 22. Class 18.
Ward Green Company, New York, N. Y. Electro-mechanical massager. Serial No. 645,208, Sept. 22. Class 44.
Weller, Erwin, Company, Sioux City, Iowa. Fishing tackle. Serial No. 620,331, Sept. 22. Class 22.
Wilen Brothers, Inc., Philadelphia, Pa. Wines. Serial Nos. 620,636–7, Sept. 22. Class 47.
Williams, C. K., & Co., Easton, Pa. Ground limestone. Serial No. 636,756, Sept. 22. Class 1.
Wilson Products Company, Salt Lake City, Utah. Gravy mix, potato salad, macaroni salad, etc. Serial No. 627,365, Sept. 22. Class 46.
Welch Nut & Candy Co., Chicago, Ill. Candy. Serial No. 646,250, Sept. 22. Class 46.
Wolf Foods, Inc., Kansas City, Mo. Soya lecithin. Serial No. 625,380, Sept. 22. Class 46.
Wolocko, Bronislawa, doing business as Bronislawa, Salem, Mass. Perfumes and deodorants. Serial No. 632,150, Sept. 22. Class 51.
Zerbst Pharmacal Company, St. Joseph, Mo. Vitamin preparation. Serial No. 640,369, Sept. 22. Class 18.

LIST OF REGISTRANTS OF TRADE-MARKS

Aber Company Inc., The, Houston, Tex. Weather-proof coating composition. 580,173. Sept. 22; Serial No. 605,389, published June 16, 1953. Class 16.
Active Tool & Manufacturing Co., Detroit, Mich. Sinks. 580,209, Sept. 22; Serial No. 620,079, published June 30, 1953. Class 13.
Adams, Paul L., doing business as Toughbuoy Co., Dubuque, Iowa. Floats for valves in water closet installations. 580,408, Sept. 22; Serial No. 634,723. Class 13.
Adco, Inc., Sedalia, Mo. Dry-cleaning preparations. 580,205, Sept. 22; Serial No. 618,720, published June 16, 1953. Class 52.
Aktiebolaget Tetra Pak, Lund, Sweden. Package forming, filling, and sealing machines. 580,219, Sept. 22; Serial No. 623,384, published June 16, 1953. Class 23.
Aktiebolaget Tetra Pak, Lund, Sweden. Package forming, filling, and sealing machines. 580,220, Sept. 22; Serial No. 623,386, published June 16, 1953. Class 23.
Albe, Robert, West Keansburg, N. J. Sandwich. 580,190, Sept. 22; Serial No. 615,739, published June 30, 1953. Class 46.
Allied Drugs, Inc., Hackensack, N. J. Preparation in tablet form for indigestion. 580,236, Sept. 22; Serial No. 627,918, published June 23, 1953. Class 18.
Allis, Louis, Company, The, Milwaukee, Wis. All-electric adjustable speed drive. 580,395, Sept. 22; Serial No. 609,270. Class 21.
Alloy Steel and Metals Company, Los Angeles, Calif. Rock crushers, sheave blocks, sheave anchors, etc. 580,174, Sept. 22; Serial No. 605,829, published June 16, 1953. Class 23.
Alta Products Corporation, New York, N. Y. Slippers and bootees. 580,305. Sept. 22; Serial No. 636,672, published June 9, 1953. Class 39.
Amco Athletic Apparel Corp., New York, N. Y. Men's, women's, boys' and girls' jackets. 580,213, Sept. 22; Serial No. 622,421, published June 16, 1953. Class 39.
American Cyanamid Company, New York, N. Y. Clothing. 580,226. Sept. 22; Serial No. 625,183, published June 16, 1953. Class 39.
American Field Seed Co.: *See*— Berry Seed Company.

American-Marietta Company: *See*—
Marietta Paint & Color Co., The.
American Pop Corn Company, Sioux City, Iowa. Seasoning for pop corn and the like. 363,790, Jan. 10, 1939. Republished Sept. 22. Class 46.
American Safety Razor Corporation, Brooklyn, N. Y. Safety razor blades. 580,390, Sept. 22; Serial No. 570,354. Class 23.
American Sponge and Chamois Company, Inc., New York, N. Y. Chamois skins. 580,325, Sept. 22; Serial No. 638,048, published June 23, 1953. Class 1.
Ames Company, Inc., Elkhart, Ind. Reagent preparation for the determination of chlorides in body fluids. 580,269, Sept. 22; Serial No. 632,068, published June 23, 1953. Class 18.
Anesite Company, Chicago, Ill. Pipe and pipe fittings. 580,362, Sept. 22; Serial No. 640,422, published July 7, 1953. Class 13.
Arden, Elizabeth, Inc., to Elizabeth Arden Sales Corporation, New York, N. Y. Lipsticks and rouge. 306,693, renewed Sept. 26, 1953. O. G. Sept. 22. Class 51.
Arden, Elizabeth, Sales Corporation: *See*—
Arden, Elizabeth, Inc.
Arkansas Company, Inc., Newark, N. J. Detergents, soaps and scouring agents. 580,232, Sept. 22; Serial No. 627,663, published June 16, 1953. Class 52.
Arlington Corporation, St. Paul, Minn. Metal platters and serving trays. 580,307, Sept. 22; Serial No. 636,872, published June 16, 1953. Class 13.
Atlas Supply Company, Newark, N. J. Storage battery cases. 308,776, renewed Dec. 19, 1953. O. G. Sept. 22. Class 21.
B. V. D. Company, Inc., The, Baltimore, Md., to The B. V. D. Company, Inc., New York, N. Y. Underwear. 304,980, renewed July 25, 1953. O. G. Sept. 22. Class 39.
Balsa Ecuador Lumber Corp., New York, N. Y. Lumber. 580,244, Sept. 22; Serial No. 629,342, published Jan. 20, 1953. Class 12.
Bancroft, Joseph, & Sons Co., Wilmington, Del. Fabrics. 580,252, Sept. 22; Serial No. 629,762, published June 30, 1953. Class 42.
Bancroft, Joseph, & Sons Co., Wilmington, Del. Fabrics. 580,369, Sept. 22; Serial No. 641,163, published June 30, 1953. Class 42.
Barry, R. G., Corporation, Columbus, Ohio. Scuffs or slippers. 580,180, Sept. 22; Serial No. 607,920, published June 16, 1953. Class 39.
Baugh and Sons Company, Baltimore, Md. Synthetic granular bone char. 580,227, Sept. 22; Serial No. 625,710, published June 30, 1953. Class 6.
Beltx Corporation, St. Louis, Mo. Sanitary belts. 580,210, Sept. 22; Serial No. 620,298, published Apr. 7, 1953. Class 44.
Beltx Corporation, St. Louis, Mo. Garter belts. 580,276, Sept. 22; Serial No. 632,914, published Jan. 13, 1953. Class 39.
Benedikter, Marjorie, Inc. Division of North Shore Manufacturing Co., Duluth, Minn. Men's, women's, boys' and girls' outerwear. 580,293, Sept. 22; Serial No. 635,578, published May 26, 1953. Class 39.
Berry Seed Company, also doing business under the names Griswold Seed Co., Mid-Continent Seeds Inc., Standard Seed and Feed Company, Standard Seed Co., and American Field Seed Co., Clarinda, Iowa. Plant hormones combined with seed disinfectants and protectants. 580,229, Sept. 22; Serial No. 626,142, published June 16, 1953. Class 10.
Best, Frederick A., Watford, England. Rust removing preparation. 580,285, Sept. 22; Serial No. 634,447, published June 23, 1953. Class 52.
Best Wear Products, Inc., New York, N. Y., assignee of Rubin-Meltzer Company. Men's, women's and children's underwear, pajamas, and sweaters. 580,215, Sept. 22; Serial No. 622,958, published June 2, 1953. Class 39.
Better Packages, Incorporated, Shelton, Conn. Tape dispensers. 580,294, Sept. 22; Serial No. 635,680, published June 23, 1953. Class 2.
Bigren Limited, Greenford, England. Lubricating oil. 580,264, Sept. 22; Serial No. 630,827, published June 16, 1953. Class 15.
Botany Mills, Inc., Passaic, N. J. Woolen piece goods. 580,373, Sept. 22; Serial No. 641,428, published June 30, 1953. Class 42.
Boulestin & Co., Cognac, France. Brandy. 307,363, renewed Oct. 24, 1953. O. G. Sept. 22. Class 49.
Boxer Reg. N. Company Limited, The: *See*—
Canadian Wallpaper Manufacturers Limited.
Brandt Automatic Cashier Company: *See*—
Brandt Cashier Company.
Brandt Cashier Company, Chicago, Ill., to Brandt Automatic Cashier Company, Watertown, Wis. Moneychangers. 93,421, re-renewed Sept. 16, 1953. O. G. Sept. 22. Class 26.
Braun Corporation: *See*—
Braun Corporation, The.
Braun Corporation, The, to Braun Corporation, Los Angeles, Calif. Centrifugal extractors. 92,316, re-renewed July 1, 1953. O. G. Sept. 22. Class 23.
Bren Products, Incorporated, Arlington, Va. Iced cakes. 580,241, Sept. 22; Serial No. 628,805, published June 30, 1953. Class 46.
Brian Specialties, Inc., New York, N. Y. Plastic compositions for producing toy balloons. 580,403, Sept. 22; Serial No. 632,013. Class 22.
Bridgeport Moulded Products, Inc., Fairfield, Conn. Drinking glass coasters, napkin holders, etc. 580,253, Sept. 22; Serial No. 629,834, published June 16, 1953. Class 2.
Bristol Laboratories Inc., New York and Syracuse, N. Y. Penicillin preparation. 580,256, Sept. 22; Serial No. 630,312, published June 23, 1953. Class 18.
Broil-Away Corporation, Venice, Fla. Disposable broiling pan. 580,336, Sept. 22; Serial No. 638,686, published July 7, 1953. Class 13.
Buckeye Products Company, The, Cincinnati, Ohio. Liquid core compound used in foundries as a binder for the sand. 580,337, Sept. 22; Serial No. 638,687, published June 23, 1953. Class 5.
Bulova Watch Company, Inc., New York, N. Y. Electrically sensitive speaker device. 580,405, Sept. 22; Serial No. 632,657. Class 21.
Buxbaum Company, The, Akron, to The Buxbaum Company, Canton, Ohio. Floor coverings and mats. 304,361, renewed July 11, 1953. O. G. Sept. 22. Class 50.
Bynum, Margaret D., Muskogee, Okla. Paddle used for disciplining children. 580,406, Sept. 22; Serial No. 632,714. Class 30.
Cahn, Bernard Co., Inc., New York, N. Y. Wallets and purses. 580,352, Sept. 22; Serial No. 639,618, published June 16, 1953. Class 3.
Calumet Cheese Co., Inc., Hilbert, Wis. Frozen cheese spreads. 580,387, Sept. 22; Serial No. 645,287, published June 30, 1953. Class 46.
Canadian Wallpaper Manufacturers Limited, Toronto, Ontario, Canada, assignee of The Reg. N. Boxer Company Limited. Wallpaper. 580,156, Sept. 22; Serial No. 561,487, published May 26, 1953. Class 37.
Cannon Shoe Company, Baltimore, Md. Ladies' shoes. 580,298, Sept. 22; Serial No. 636,339, published June 16, 1953. Class 39.
Capewell Manufacturing Company, The, Hartford, Conn. Parachute hardware. 580,265, Sept. 22; Serial No. 631,543, published June 23, 1953. Class 13.
Capital Flour Mills, Incorporated, by International Milling Company, Minneapolis, Minn. Wheat flour. 308,661, Dec. 12, 1933. Republished Sept. 22. Class 46.
Capp, Theron E., Duncan, Okla. Binders for holding accounting forms and blank forms therefor. 580,221, Sept. 22; Serial No. 623,645, published June 16, 1953. Class 37.
Carlife Guaranty Company, The, Detroit, Mich. Automobile service progress record board. 580,407, Sept. 22; Serial No. 633,446. Class 50.
Carr & Day & Martin Limited, New Southgate, London, England. Saddle soap. 580,202, Sept. 22; Serial No. 618,228, published June 16, 1953. Class 52.
Cavu Clothes, Inc., Cincinnati, Ohio. Clothing. 580,345, Sept. 22; Serial No. 639,263, published June 16, 1953. Class 39.
Century Lighting Equipment, Inc., to Century Lighting, Inc., New York, N. Y. Electric lighting equipment. 300,921, renewed Feb. 14, 1953. O. G. Sept. 22. Class 21.
Century Lighting, Inc.: *See*—
Century Lighting Equipment, Inc.
Chalet, Inc., Dallas, Tex. Women's, misses', juniors', and children's dresses, suits, jackets, etc. 580,198, Sept. 22; Serial No. 617,188, published June 16, 1953. Class 39.
Chemie Grünenthal G. m. b. H., Stolberg im Rheinland, Germany. Remedies for tuberculosis. 580,243, Sept. 22; Serial No. 629,285, published June 23, 1953. Class 18.
Chippewa Shoe Co., Chippewa Falls, Wis. Leather boots and shoes. 580,224, Sept. 22; Serial No. 624,632, published June 2, 1953. Class 39.
City Stores Company, Philadelphia, Pa. Ladies' coats and suits. 580,299, Sept. 22; Serial No. 636,342, published June 16, 1953. Class 39.
Coastal Laboratories, Inc., South Toms River, N. J. Pharmaceutical preparations. 580,396, Sept. 22; Serial No. 621,389. Class 18.
Cole, J. W., Company, The: *See*—
Korman, Loraine H.
Collier, M. L., & Co., Atlanta, Ga. Bookkeeping service. 580,411, Sept. 22; Serial No. 639,809. Class 101.
Collins & Aikman Corporation, Philadelphia, Pa. Fabrics. 580,372, Sept. 22; Serial No. 641,274, published June 30, 1953. Class 42.
Columbia Records Inc., Bridgeport, Conn. Grooved phonograph records. 580,321, Sept. 22; Serial No. 637,701, published June 30, 1953. Class 36.
Commercial Solvents Corporation, New York, N. Y. Nitrogen solutions used as or in the production of soil fertilizers. 580,237, Sept. 22; Serial No. 627,930, published June 16, 1953. Class 10.
Commonwealth Shoe and Leather Company, Whitman, Mass. Shoes. 580,358, Sept. 22; Serial No. 640,194, published June 16, 1953. Class 39.

Comptoir de l'Industrie Cotonniere Société à Responsabilité Limitée, Paris, France. Jewelry. 580,207, Sept. 22; Serial No. 619,485, published June 9, 1953. Class 28.
Consolidated Sewing Machine & Supply Co., Inc., New York, N. Y. Knives. 580,397, Sept. 22; Serial No. 622,480. Class 23.
Continental Mills, Inc., Philadelphia, Pa. Men's, women's, boys', girls', children's and infants' overcoats, topcoats, coats, etc. 580,350, Sept. 22; Serial No. 639,530, published June 16, 1953. Class 39.
Cook, George F., doing business as Rocky Mountain Supply, Englewood, Colo. Fishing tackle and fish baits. 580,304, Sept. 22; Serial No. 604,519. Class 22.
Craftshire Sports, Inc., New York, N. Y. Women's and misses' suits. 580,268, Sept. 22; Serial No. 631,651, published June 16, 1953. Class 39.
Crown Zellerbach Corporation, San Francisco, Calif. Paper napkins, facial tissue, waxed paper, etc. 580,312, Sept. 22; Serial No. 637,268, published May 5, 1953. Class 37.
Crystal, David, Inc., New York, N. Y. Silk piece goods and rayon piece goods. 580,263, Sept. 22; Serial No. 630,766, published June 30, 1953. Class 42.
Curtis Lighting, Inc., Chicago, Ill. Glass reflectors. 304,049, June 20, 1933. Republished Sept. 22. Class 34.
Dayton Rubber Company, The, Dayton, assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Rubber vehicle tires. 580,231, Sept. 22; Serial No. 627,383, published May 12, 1953. Class 35.
Deering, Milliken & Co., Inc., New York, N. Y. Textile fabrics. 580,282, Sept. 22; Serial No. 633,923, published June 30, 1953. Class 42.
Dickey Manufacturing Company, St. Louis, Mo. Automobile white wall tire cleaner, auto body washing compound, bug stain remover, etc. 580,273, Sept. 22; Serial No. 632,508, published June 23, 1953. Class 52.
Drum Equipment Corporation, Elizabeth, N. J. Metal drum and container reconditioning equipment. 580,176. Sept. 22; Serial No. 607,319, published June 16, 1953. Class 23.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Combs. 580,308, Sept. 22; Serial No. 636,885, published May 12, 1953. Class 40.
Eagle Clothes, Inc., New York, N. Y. Men's clothing. 580,178, Sept. 22; Serial No. 607,847, published Aug. 26, 1952. Class 39.
Eagle Clothes, Inc., New York, N. Y. Men's clothing. 580,179, Sept. 22; Serial No. 607,848, published June 16, 1953. Class 39.
Eagle Pencil Company, New York, N. Y. Wood encased pencils. 580,295, Sept. 22; Serial No. 636,218, published May 19, 1953. Class 37.
Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Synthetic staple fiber. 580,301. Sept. 22; Serial No. 636,414, published June 23, 1953. Class 1.
Edelstein, Irving A., doing business as London Pharmacal Co., by E. Malatzky, New York, N. Y. Ointment. 290,702, Jan. 12, 1932. Republished Sept. 22. Class 18.
Electric Steel Foundry, Portland, Oreg. Various and sundry metal hooks, fabricated metal pipe, cast metal pipe, etc. 580,159, Sept. 22; Serial No. 579,866, published June 23, 1953. Class 13.
Elraco Engineering Company, Hoboken, N. J. Soot removing chemical preparation. 580,257, Sept. 22; Serial No. 630,401, published June 23, 1953. Class 52.
El Rancho Yugurti: *See*—
Lipsky, Marcus.
Esso Standard Oil Company: *See*—
Gilbert & Barker Manufacturing Company.
Stanco Incorporated.
Standard Oil Company of New Jersey.
Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Electrodes. 580,365, Sept. 22; Serial No. 640,732, published June 30, 1953. Class 21.
Evergrip Products Corporation, New York, N. Y. Picture hanging brackets or clips. 580,334, Sept. 22; Serial No. 638,641, published June 30, 1953. Class 13.
Faber, Eberhard, Pencil Company, Brooklyn, N. Y. Fountain pen nibs. 580,314, Sept. 22; Serial No. 637,305, published May 5, 1953. Class 37.
Fairy Silk Mills, Shillington, Pa. Tricot knit fabrics. 444,790, Sept. 22; Serial No. 495,369, published Aug. 23, 1949. Class 42.
Family Products, Inc., assignor to Inapak Corporation, Chicago, Ill. Vitamin-mineral food supplement. 580,181, Sept. 22; Serial No. 609,970, published June 16, 1953. Class 18.
Farmers' Commission House, Inc., New York, N. Y. Live and dressed ducks. 151,754, Feb. 14, 1922. Republished Sept. 22. Classes 1 and 46.
Featherland Farm Incorporated, Sudbury, Mass. Baby chicks and hatching eggs. 580,304, Sept. 22; Serial No. 636,518, published June 23, 1953. Class 1.
Feder Industries, Inc., New York, N. Y. Ladies' slippers. 580,216, Sept. 22; Serial No. 623,048, published June 16, 1953. Class 39.
Filtrol Company of California, to Filtrol Corporation, Los Angeles, Calif. Chemically-treated colloidal clay. 303,533, renewed May 30, 1953. O. G. Sept. 22. Class 6.
Filtrol Company of California, to Filtrol Corporation, Los Angeles, Calif. Chemically treated colloidal clay. 304,074, renewed June 20, 1953. O. G. Sept. 22. Class 6.
Filtrol Corporation: *See*—
Filtrol Company of California.
Finger Lakes Chemical Company, Inc., Etna, N. Y. Emulsion product for washing machined metal parts. 580,251, Sept. 22; Serial No. 629,605, published June 9, 1953. Class 52.
Firestone Tire & Rubber Company, The: *See*—
Dayton Rubber Company, The.
Firestone Tire & Rubber Company, The, Akron, Ohio. Vehicle tires. 580,262, Sept. 22; Serial No. 630,672, published May 12, 1953. Class 35.
Foot Pleasure Shoe Company, St. Louis, Mo. Shoes. 580,160, Sept. 22; Serial No. 592,140, published June 16, 1953. Class 39.
Forbes, Marion, Virginia Beach, Va. Entertainment service. 580,410, Sept. 22; Serial No. 623,457. Class 107.
"4711" Limited, Beverly Hills, Calif., assignee of Lee Pharmacal Co. Lacquer preparation. 580,399, Sept. 22; Serial No. 625,857. Class 51.
Foundry Services Limited, Birmingham, England. Exothermic compounds. 580,222, Sept. 22; Serial No. 624,266, published Jan. 20, 1953. Class 6.
Fox, Fontaine, Manhasset, N. Y., to F. Fox, Greenwich, Conn. Series of cartoons. 304,868, renewed July 18, 1953. O. G. Sept. 22. Class 38.
Fox River Paper Corporation, Appleton, Wis. Writing paper, and for wedding paper. 580,359, Sept. 22; Serial No. 640,203, published June 23, 1953. Class 37.
Franklin, Simon, & Co. Inc., New York, N. Y. Women's, misses', and girls' shoes. 580,254, Sept. 22; Serial No. 630,097, published June 16, 1953. Class 39.
Frishman & Gintel, New York, N. Y. Mink fur stoles, mink fur capes, mink fur jackets, etc. 580,306, Sept. 22; Serial No. 636,847, published June 16, 1953. Class 39.
Garvey S. A.: *See*—
Garvey, S. A., Messrs. Succesores de.
Garvey, S. A., Messrs. Sucesores de, to Garvey S. A., Jerez de la Frontera, Spain. Wines. 305,966, renewed Aug. 29, 1953. O. G. Sept. 22. Class 47.
Gaylord Products, Incorporated, Chicago, Ill. Bobby pins and hair pins. 580,311, Sept. 22; Serial No. 637,178, published May 12, 1953. Class 40.
Geisha Robe Co., Inc., New York, N. Y. Girls' and misses' sleeping and lounging pajamas, bath robes, lounging robes, etc. 580,338, Sept. 22; Serial No. 638,904, published June 2, 1953. Class 39.
General Electric Company, Schenectady, N. Y. Switch boxes. 580,398, Sept. 22; Serial No. 622,818. Class 21.
General Tire & Rubber Company, The, Akron, Ohio. Cold cure adhesive cement and rim and gasket shellac adhesive compound. 580,177, Sept. 22; Serial No. 607,426, published June 23, 1953. Class 5.
Gilbert & Barker Manufacturing Company, West Springfield, Mass., to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y. Oil burners. 306,954, renewed Oct. 10, 1953. O. G. Sept. 22. Class 34.
Gilbert & Barker Manufacturing Company, West Springfield, Mass., to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y. Electric motors, thermostatically-controlled electrical switches, transformers, etc. 307,108, renewed Oct. 17, 1953. O. G. Sept. 22. Class 21.
Gilbert & Bennett Mfg. Co., The, Georgetown, Conn. Welded galvanized wire mesh fabric. 580,270, Sept. 22; Serial No. 632,205, published July 7, 1953. Class 13.
Gilbey, W. & A., Ltd.: *See*—
Gilbey, W. & A., Limited.
Gilbey, W. & A., Limited, London, England, to W. & A. Gilbey, Ltd., New York, N. Y. Whisky, brandy, and other potable distilled liquors. 304,848, renewed July 18, 1953. O. G. Sept. 22. Class 49.
Gilbey, W. & A., Limited, London, England, to National Distillers Products Corporation, New York, N. Y. Whisky. 304,851, renewed July 18, 1953. O. G. Sept. 22. Class 49.
Goldblatt Bros. Inc., Chicago, Ill. Ladies' underwear, slips, nightgowns, and pajamas. 580,187, Sept. 22; Serial No. 614,696, published June 16, 1953. Class 39.
Gold Maid Hosiery Mills, Inc., Chicago, Ill., to Mona Lisa Foundations, Inc., Allentown, Pa. Hosiery. 302,192, renewed Apr. 4, 1953. O. G. Sept. 22. Class 39.
Goldman, Louis M., doing business as Lou-Bob Company, Chicago, Ill. Denatured alcohol used for anti-freeze. 373,030, Nov. 21, 1939. Republished Sept. 22. Class 6.
Gold Rain Recording Company, Detroit, Mich. Grooved phonograph records. 580,155, Sept. 22; Serial No. 559,920, published June 30, 1953. Class 36.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Heels and soles. 580,313, Sept. 22; Serial No. 637,273, published June 16, 1953. Class 39.
Gramophone Company Limited, The, Hayes, Middlesex, England. Grooved phonograph records. 580,349, Sept. 22; Serial No. 639,470, published June 30, 1953. Class 36.

Gray Marine Motor Company, Detroit, Mich. Internal combustion engines; power transmissions; accessory machine mountings and accessory drive mechanisms, etc. 580,170–1, Sept. 22; Serial Nos. 602,029–30, published June 16, 1953. Class 23.

Greenspon, Louis, Inc., Clayton, Mo. Line metal pipe and tubing 580,357, Sept. 22; Serial No. 640,119, published June 16, 1953. Class 13.

Greenview Manufacturing Company, Chicago, Ill. Window cleaners and parts thereof. 305,534, Aug. 22, 1933. Republished Sept. 22. Class 29.

Griswold Seed Co.: *See*—
Berry Seed Company.

Gum Tragasol Supply Company Limited, The, to Tragasol Products Limited, Hooten, England. Mucilaginous products of vegetable origin. 92,070, re-renewed June 17, 1953. O. G. Sept. 22. Class 1.

Gum Tragasol Supply Company Limited, The, to Tragasol Products Limited, Hooten, England. Leather dressings and polishes. 92,071, re-renewed June 17, 1953. O. G. Sept. 22. Class 4.

Gurian, Edward E., & Co.: *See*—
Gurian, Edward E., & Co., Inc.

Gurian, Edward E., & Co., Inc., Chicago, Ill., assignee of Edward E. Gurian & Co. Fountain brushes. 580,400, Sept. 22; Serial No. 626,324. Class 29.

Hadley, Charles R., Company, Los Angeles, Calif. Binders, covers or folders, partially printed forms, etc. 580,168, Sept. 22; Serial No. 601,723, published May 12, 1953. Class 37.

Haloid Company, The, Rochester, N. Y. Cleaners and film removers. 580,296, Sept. 22; Serial No. 636,289, published June 23, 1953. Class 52.

Hampshire Paper Company, South Hadley Falls, by Byron Weston Company, Dalton, Mass. High-grade papers. 59,476, Jan. 8, 1907. Republished Sept. 22. Class 37.

Handcraft Company, Inc., Princeton, Wis. Shoes. 580,233, Sept. 22; Serial No. 627,745, published June 16, 1953. Class 39.

Hanes, P. H., Knitting Company, Winston-Salem, N. C. Underwear. 580,302, Sept. 22; Serial No. 636,417, published June 9, 1953. Class 39.

Hanover Cordage Company, Hanover, Pa. Coarse-finish twine. 580,380, Sept. 22; Serial No. 642,106, published June 23, 1953. Class 7.

Hanover Cordage Company, Hanover, Pa. Hemp twine. 580,381, Sept. 22; Serial No. 642,107, published June 23, 1953. Class 7.

Hanover Cordage Company, Hanover, Pa. White-fibre twines. 580,382, Sept. 22; Serial No. 642,108, published June 23, 1953. Class 7.

Hanover Cordage Company, Hanover, Pa. White-fibre twine. 580,383, Sept. 22; Serial No. 642,109, published June 23, 1953. Class 7.

Hanover Cordage Company, Hanover, Pa. Twine. 580,384, Sept. 22; Serial No. 642,110, published June 23, 1953. Class 7.

Hanover Cordage Company, Hanover, Pa. Tube rope, wall-paper twine, jute wrapping twine, etc. 580,385, Sept. 22; Serial No. 642,111, published June 23, 1953. Class 7.

Harris-Seybold Company, Cleveland, Ohio. Coating compositions and ingredients thereof for lithographic surfaces. 580,203, Sept. 22; Serial No. 618,451, published June 30, 1953. Class 6.

Harris, P. Stephen, doing business as National Cosmetic Sales Co., by Lucky Tiger Manufacturing Company, Kansas City, Mo. Perfumed deodorant. 358,642, July 19, 1938. Republished Sept. 22. Class 51.

Haskell Manufacturing Company, Inc., Pittsburgh, Pa. Drafting tables. 440,116, Aug. 10, 1948. Republished Sept. 22. Class 26.

Hiller Bros. & Hiller, Inc., New York, N. Y. Ladies' outer garments. 580,310, Sept. 22; Serial No. 636,982, published June 16, 1953. Class 39.

Hollingshead, R. M., Corporation, Camden, N. J. Degreasing compound. 580,223, Sept. 22; Serial No. 624,547, published June 9, 1953. Class 52.

Hollywood Shoe Polish, Inc., Richmond Hill, N. Y. Shoe polish. 580,315–16, Sept. 22; Serial Nos. 637,374–5, published June 23, 1953. Class 4.

Holmes, Maurice O. W., Vancouver, British Columbia, Canada. Cleaning fluid. 580,242, Sept. 22; Serial No. 629,018, published June 16, 1953. Class 52.

Hook-Flex Company, assignor to Hook-Flex Corporation, Chicago, Ill. Sets of hooks and eyes. 580,319, Sept. 22; Serial No. 637,588, published May 12, 1953. Class 40.

Hook-Flex Corporation, assignee: *See*—
Hook-Flex Company.

Horlacher Brewing Company, Allentown, Pa. Beer. 415,516, Aug. 7, 1945. Republished Sept. 22. Class 46.

Ilfort and Worthen Tanning Corporation, Haverhill, Mass. Thin leathers. 580,163, Sept. 22; Serial No. 594,460, published June 16, 1953. Class 1.

I. D. Company, New York, N. Y. Decorated metallic receptacles. 580,183, Sept. 22; Serial No. 611,227, published July 7, 1953. Class 13.

Igersheim, Oscar F., doing business under the name of Plastic Fabricators, New York, N. Y. Partitioned boxes, cartons and cases. 580,324, Sept. 22; Serial No. 637,993, published June 2, 1953. Class 2.

Inapak Corporation, assignee: *See*—
Family Products, Inc.

Independent Wholesale Dry Goods Association, Inc., New York, N. Y. Cotton, rayon, linen, and silk piece goods, and sheets, etc. 580,388, Sept. 22; Serial No. 619,972, published June 30, 1953. Class 42.

International Milling Company: *See*—
Capital Flour Mills, Incorporated.

International Sisal Company, Minneapolis, Minn. Sweeping compound. 580,266, Sept. 22; Serial No. 631,620, published June 23, 1953. Class 52.

Johns-Manville Corporation, New York, N. Y. Asphaltic emulsion for use as a protective coating, etc. 305,908, renewed Aug. 29, 1953. O. G. Sept. 22. Class 16.

Johnson, Gordon, Company, Kansas City, Mo. Chilling tanks. 580,404, Sept. 22; Serial No. 632,617. Class 23.

Jones, Edward N., doing business as Southern Oil Chemical Company, Pettus, Tex. Petroleum for treating equipment to prevent scale and corrosion.. 580,361, Sept. 22; Serial No. 640,403, published June 30, 1953. Class 6.

Kayser, Julius, & Co., New York, N. Y. Hosiery. 580,260, Sept. 22; Serial No. 630,539, published June 16, 1953. Class 39.

Kentile, Inc., Brooklyn, N. Y. Adhesive. 580,340, Sept. 22; Serial No. 639,170, published June 23, 1953. Class 5.

Kentile, Inc., Brooklyn, N. Y. Wax. 580,341, Sept. 22; Serial No. 639,171, published June 23, 1953. Class 4.

Kentile, Inc., Brooklyn, N. Y. Adhesive. 580,342, Sept. 22; Serial No. 639,172, published June 23, 1953. Class 5.

Kentile, Inc., Brooklyn, N. Y. Adhesives and pastes. 580,343, Sept. 22; Serial No. 639,177, published June 23, 1953. Class 5.

Kingsford Chemical Co., Iron Mountain, Mich. Charcoal briquets. 580,332, Sept. 22; Serial No. 638,367, published June 23, 1953. Class 1.

Klaus, Karl, doing business as Karl Klaus Company, Glendale, Calif. Partially printed forms. 580,267, Sept. 22; Serial No. 631,624, published May 12, 1953. Class 37.

Klaus, Karl, Company: *See*—
Klaus, Karl.

Klipstein, Tobias, Inc., New York, N. Y. Ladies' and misses' coats and suits. 580,255, Sept. 22; Serial No. 630,193, published June 23, 1953. Class 39.

Korman, Loraine H., doing business as The J. W. Cole Company, Chicago, Ill. Medicinal salves. 580,157, Sept. 22; Serial No. 567,148, published June 23, 1953. Class 18.

Krome Company, Inc., Reading, Pa. Thread files or chasers. 580,402, Sept. 22; Serial No. 631,741. Class 23.

Lakewood Fireproof Storage Company, The, Lakewood-Cleveland, by Lakewood Storage, Inc., Lakewood, Ohio. Paper and burlap package wrappings, paper and fabric bags, crates, etc. 223,603, Feb. 8, 1927. Republished Sept. 22. Classes 2, 37, 42.

Lakewood Storage, Inc.: *See*—
Lakewood Fireproof Storage Company, The.

Laminated Shim Company, Incorporated, Glenbrook, Conn. Shims. 580,280, Sept. 22; Serial No. 633,546, published June 30, 1953. Class 35.

Landers, Frary & Clark, New Britain, Conn. Food choppers, cylindrical food choppers, rotary food choppers, etc. 305,234, renewed Aug. 8, 1953. O. G. Sept. 22. Class 23.

Lang, Harry, Mfg. Co., Minneapolis, Minn. Children's play clothes. 580,158, Sept. 22; Serial No. 577,439, published Oct. 24, 1950. Class 39.

Larco Nuclear Instrument Company: *See*—
Ruderman, Irving W.

Larsen Products Corporation, Bethesda, Md. Adhesive preparation.. 580,376, Sept. 22; Serial No. 641,556, published June 23, 1953. Class 5.

Lee Pharmacal Co.: *See*—
"4711" Limited."

Leeds Ltd. Coats, Inc., by Leeds Ltd. Coats, Inc. (1944), New York, N. Y. Women's, misses' and juniors' coats, suits, jackets, etc. 392,248, Dec. 16, 1941. Republished Sept. 22. Class 39.

Leeds Ltd. Coats, Inc., (1944): *See*—
Leeds Ltd. Coats, Inc.

Lenape Hydraulic Pressing & Forging Co., Lenape, Pa. Repair sleeves and weld sleeves, boiler nozzles, weld necks, etc. 580,275, Sept. 22; Serial No. 632,816, published June 30, 1953. Class 13.

Leschen, A., & Sons Rope Company, St. Louis, Mo. Wire rope. 580,161, Sept. 22; Serial No. 592,735, published June 16, 1953. Class 7.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. 580,346, Sept. 22; Serial No. 639,318, published June 23, 1953. Class 18.

Lily Mills Company, Shelby, N. C. Cotton sewing thread, crochet and knitting yarn. 328,673, Oct. 1, 1935. Republished Sept. 22. Class 43.

Lily Mills Company, Shelby, N. C. Crochet and knitting cotton yarn and tufting yarn. 328,674, Oct. 1, 1935. Republished Sept. 22. Class 43.

Lily Mills Company, Shelby, N. C. Crochet and knitting cotton yarn. 328,713, Oct. 1, 1935. Republished Sept. 22. Class 43.

Lip-Off Co.: *See*—
Peterson, Russell A.

Lipsky, Marcus, doing business as El Rancho Yugurti, Monrovia, Calif. Yogurt. 580,197, Sept. 22; Serial No. 617,116, published June 30, 1953. Class 46.

London Pharmacal Co.: *See*—
Edelstein, Irving A.

Loomtogs, Inc., New York, N. Y. Junior and misses' skirts, slacks, shorts, etc. 580,250, Sept. 22; Serial No. 629,576, published June 16, 1953. Class 39.

Lou-Bob Company: *See*—
Goldman, Louis M.

Lowe, Joe, Corporation, New York, N. Y. Stabilizing compound for dough. 305,399, Aug. 15, 1933. Republished Sept. 22. Class 46.

Lucky Tiger Manufacturing Company: *See*—
Harris, P. Stephen.

Mac-It Parts Company, Lancaster, Pa. Screws. 91,886, re-renewed June 3, 1953. O. G. Sept. 22. Class 13.

Malatsky, Ethel: *See*—
Edelstein, Irving A.

Manhattan Shirt Company, The, New York, N. Y. Men's outer shirts and pajamas. 580,339, Sept. 22; Serial No. 638,963, published June 16, 1953. Class 39.

Marietta Paint & Color Co., The, Marietta, Ohio, to American-Marietta Company, Chicago, Ill. Varnish stain. 94,189, re-renewed Nov. 11, 1953. O. G. Sept. 22. Class 16.

Markell, Maurice J., New York, N. Y. Men's, women's, and children's shoes. 580,303, Sept. 22; Serial No. 636,486, published June 16, 1953. Class 39.

Markwell Manufacturing Company, Inc., New York, N. Y. Staples. 580,401, Sept. 22; Serial No. 627,759. Class 13.

Mathieson Chemical Corporation, Baltimore, Md. Superfine sulphur. 580,386, Sept. 22; Serial No. 644,044, published June 30, 1953. Class 6.

May Hosiery Mills, Nashville, Tenn. Knitted socks. 580,166, Sept. 22; Serial No. 597,890, published Mar. 18, 1952. Class 39.

Merrimac Hat Corporation, New York, N. Y. Men's, women's, and children's hats and hat bodies. 580,167, Sept. 22; Serial No. 600,441, published June 30, 1953. Class 39.

Metals Disintegrating Company, Inc., Elizabeth, N. J. Metallic cleaning shot. 580,191, Sept. 22; Serial No. 615,844, published June 30, 1953. Class 4.

Michaels, Stern & Company, Incorporated, Rochester, N. Y. Men's suits, sport coats, topcoats, etc. 580,354, Sept. 22; Serial No. 639,948, published June 16, 1953. Class 39.

Michigan Fruit Canners, Inc., Benton Harbor, Mich. Frozen and canned fruits, canned vegetables, and frozen and canned berries. 580,378, Sept. 22; Serial No. 641,735, published June 30, 1953. Class 46.

Mid-Continent Seeds Inc.: *See*—
Berry Seed Company.

Miller, Lee C., Sr., doing business as Zip Products Co., Clyde, Ohio. Rust and stain remover. 580,208, Sept. 22; Serial No. 619,841, published June 23, 1953. Class 52.

Miller and Rhoads, Incorporated, Richmond, Va. Phonographs and recorders. 580,217, Sept. 22; Serial No. 623,115, published June 30, 1953. Class 36.

Miller and Rhoads, Incorporated, Richmond, Va. Walking canes, parasols and umbrellas. 580,218, Sept. 22; Serial No. 623,117, published May 19, 1953. Class 41.

Minnesota Mining and Manufacturing Company, St. Paul, Minn. Rubber adhesive. 580,370, Sept. 22; Serial No. 641,197, published June 23, 1953. Class 5.

Mona Lisa Foundations, Inc.: *See*—
Gold Maid Hosiery Mills, Inc.

Multi-Purpose Manufacturing Co.: *See*—
Robertson, Jackson P.

Myers, Harry, and Company, Inc., Baltimore, Md. Men's and boys' suits, overcoats, rain-coats, etc. 580,292, Sept. 22; Serial No. 635,568, published June 16, 1953. Class 39.

National Carbon Company, Cleveland, Ohio, to Union Carbide and Carbon Corporation, New York, N. Y. Dry cells. 94,480, re-renewed Dec. 9, 1953. O. G. Sept. 22. Class 21.

National Cosmetic Sales Co.: *See*—
Harris, P. Stephen.

National Distillers Products Corporation: *See*—
Gilbey, W. & A. Limited.

Nolde and Horst Company, The, Reading, Pa. Men's slippers. 580,169, Sept. 22; Serial No. 601,997, published June 2, 1953. Class 39.

Normandie Bedspread Co., New York, N. Y. Bedspreads. 580,371, Sept. 22; Serial No. 641,202, published June 30, 1953. Class 42.

Oberman, M. A., & Son, St. Louis, Mo. Removable insoles for shoes. 580,333, Sept. 22; Serial No. 638,371, published June 16, 1953. Class 39.

Oley Products Inc., Inwood, N. Y. Door stop for a screen and door closer. 580,297, Sept. 22; Serial No. 636,304, published June 30, 1953. Class 13.

Olin Industries, Inc., East Alton, Ill. Cuff links and buttons. 580,228, Sept. 22; Serial No. 625,999, published June 2, 1953. Class 40.

O'Mahony, Jerry, Incorporated, Elizabeth, N. J. Roadside diners or lunchwagons. 580,389, Sept. 22; Serial No. 566,279. Class 12.

Oomphies, Inc., New York, N. Y. Women's casual shoes. 580,189, Sept. 22; Serial No. 615,719, published Sept. 23, 1952. Class 39.

Packers Tar Soap, Inc., Mystic, Conn. Soap. 580,271, Sept. 22; Serial No. 632,320, published June 23, 1953. Class 52.

Patton Manufacturing Company, Decherd, Tenn., now by change of name N. M. Patton and Company. Men's and women's suits and coats. 580,164, Sept. 22; Serial No. 595,975, published Oct. 14, 1952. Class 39.

Patton, N. M., and Company: *See*—
Patton Manufacturing Company.

Peabody Coal Company, Chicago, Ill. Coal. 580,272, Sept. 22; Serial No. 632,487, published June 23, 1953. Class 1.

Pennsylvania Refining Company, Butler, Pa. Hand tool in the form of a conduit. 580,165, Sept. 22; Serial No. 596,356, published June 16, 1953. Class 23.

Peoples Drug Stores, Inc., Washington, D. C. Denatured alcohol, Dubell's solution, zinc ointment, etc. 227,440, May 3, 1927. Republished Sept. 22. Classes 1, 6, 18, 51, and 52.

Peterson, Russell A., doing business under the fictitious name Lip-Off Co., Lakeport, Calif. Cleansing liquid. 580,261, Sept. 22; Serial No. 630,614, published June 23, 1953. Class 52.

Petite Miss Co., New York, N. Y. Ladies' coats. 580,330, Sept. 22; Serial No. 638,311, published June 16, 1953. Class 39.

Petroleum Solvents Corporation, New York, N. Y. Detergents. 580,212, Sept. 22; Serial No. 622,405, published Dec. 16, 1952. Class 52.

Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Penicillin preparation. 580,348, Sept. 22; Serial No. 639,440, published June 16, 1953. Class 18.

Pharma-Craft Corporation, The, New York, N. Y. Germicidal soap. 580,317, Sept. 22; Serial No. 637,528, published June 16, 1953. Class 52.

Phillips Manufacturing Company, Chicago, Ill. Compounds for degreasing metal parts. 580,347, Sept. 22; Serial No. 639,389, published June 23, 1953. Class 52.

Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Medical preparation—namely, a powder useful as a blood solvent and detergent. 580,377, Sept. 22; Serial No. 641,566, published June 23, 1953. Class 52.

Plastic Binding Corporation, Chicago, Ill. Liquid cementitious adhesive. 580,281, Sept. 22; Serial No. 633,629, published June 23, 1953. Class 5.

Plastic Fabricators: *See*—
Igersheim, Oscar F.

Potter Drug & Chemical Corporation, Malden, Mass. Shampoo. 580,172, Sept. 22; Serial No. 604,545, published June 9, 1953. Class 52.

Pratt-Low Preserving Company, Santa Clara, Calif. Canned fruits and canned vegetables. 266,307, Jan. 14, 1930. Republished Sept. 22. Class 46.

Procter & Gamble Company, The, Cincinnati, Ohio. Soluble cleaner, cleanser, and detergent. 580,286, Sept. 22; Serial No. 634,545, published June 16, 1953. Class 52.

Productos Salinos, Inc., Ponce, P. R. Table salt. 580,230, Sept. 22; Serial No. 626,340, published June 30, 1953. Class 46.

RCS Tool Sales Corporation, Joliet, Ill. Reciprocating saw attachment for power drills and blades therefor. 580,391, Sept. 22; Serial No. 588,517. Class 23.

Rath Packing Company, The, Waterloo, Iowa. Bacon. 93,464, re-renewed Sept. 16, 1953. O. G. Sept. 22. Class 46.

Rath Packing Company, The, Waterloo, Iowa. Hams, skinned hams, bacon, and lard. 93,495, re-renewed Sept. 16, 1953. O. G. Sept. 22. Class 46.

Rayette, Inc., St. Paul, Minn. Shampoos. 580,329, Sept. 22; Serial No. 638,271, published June 23, 1953. Class 52.

Reichhold Chemicals, Inc., Detroit, Mich. Synthetic resins and solutions containing the same for bonding, laminating and adhesive purposes. 580,322, Sept. 22; Serial No. 637,722, published June 23, 1953. Class 5.

Reichhold Chemicals, Inc., Detroit, Mich. Synthetic resins and solutions containing the same for bonding, laminating and adhesive purposes. 580,326, Sept. 22; Serial No. 638,103, published June 23, 1953. Class 5.

Renart Sportswear Corporation, New York, N. Y. Ladies' sweaters. 580,279, Sept. 22; Serial No. 633,500, published June 2, 1953. Class 39.

Riener Company, Inc., The, New York, N. Y. Cleansing tissues and toilet tissues. 580,320, Sept. 22; Serial No. 637,613, published May 12, 1953. Class 37.

Rigo Manufacturing Co., Inc., Nashville, Tenn. Detergent. 580,289, Sept. 22; Serial No. 635,097, published June 23, 1953. Class 52.

Riverdale Manufacturing Co., Inc., New York, N. Y. Draperies. 580,206, Sept. 22; Serial No. 618,816, published June 30, 1953. Class 42.

Robertson, Jackson P., doing business as Multi-Purpose Manufacturing Co., Columbus, Miss. Lift-type disc harrows 580,392, Sept. 22; Serial No. 597,699. Class 23.

Rocky Mountain Supply: *See*—
Cook, George F.

Romeo, Anthony, trading and doing business as Romeo's Hair Clinic, Camden, N. J. Home treatment kits, containing medicinal ingredients, etc. 580,291, Sept. 22; Serial No. 635,326, published June 23, 1953. Class 18.

Romeo's Hair Clinic: *See*—
Romeo, Anthony.

Ross, Sydney Co., The, New York, N. Y. Tonic medicinal preparation. 92,376, re-renewed July 1, 1953. O. G. Sept. 22. Class 18.

Rubin-Meltzer Company: *See*—
Best Wear Products, Inc.

Rubinstein, Helena, Inc., New York, N. Y. Glove holders, flower holders, combination perfume pin and flower holders, etc. 580,188, Sept. 22; Serial No. 614,722, published May 12, 1953. Class 40.

Ruderman, Irving W., doing business as Larco Nuclear Instrument Company, Palisades Park, N. J. Phosphorescent or fluorescent polymers, copolymers, synthetic plastics, etc. 580,323, Sept. 22; Serial No. 637,725, published June 30, 1953. Class 6.

Russell Manufacturing Company, The, Alexander City, Ala. Men's and boys' apparel and sportswear. 580,201, Sept. 22; Serial No. 618,099, published June 16, 1953. Class 39.

Sanavene Manufacturing Co., St. Louis, Mo. Liquid chemical cleaning preparation. 580,344, Sept. 22; Serial No. 639,191, published June 23, 1953. Class 52.

Sanson Hosiery Mills, Inc., Philadelphia, Pa. Women's hosiery. 580,258, Sept. 22; Serial No. 630,451, published June 16, 1953. Class 39.

Schenley Laboratories, Inc., New York, N. Y. Tablet consisting of a sedative and muscular relaxant. 580,238, Sept. 22; Serial No. 627,964, published June 16, 1953. Class 18.

Schenley Laboratories, Inc., New York, N. Y. Polyvinyl pyrrolidone in bulk. 580,239, Sept. 22; Serial No. 627,971, published June 16, 1953. Class 18.

Schoellkopf Company, The, Dallas, Tex. Gun cases, saddle scabbards, pistol holsters, and cartridge cases. 580,240, Sept. 22; Serial No. 628,227, published June 16, 1953. Class 9.

Scovill Manufacturing Company, Waterbury, Conn. Safety pins, straight pins, veil pins, etc. 580,245–6, Sept. 22; Serial Nos. 629,520–1, published June 2, 1953. Class 40.

Scovill Manufacturing Company, Waterbury, Conn. Safety pins, straight pins, hat pins, etc. 580,247, Sept. 22; Serial No. 629,522, published June 2, 1953. Class 40.

Scovill Manufacturing Company, Waterbury, Conn. Safety pins and straight pins. 580,248, Sept. 22; Serial No. 629,523, published May 19, 1953. Class 40.

Scovill Manufacturing Company, Waterbury, Conn. Safety pins and hooks and eyes. 580,249, Sept. 22; Serial No. 629,524, published May 19, 1953. Class 40.

Sears, Roebuck and Co., Chicago, Ill. Men's, young men's, and youths' clothing. 580,154, Sept. 22; Serial No. 559,332, published June 16, 1953. Class 39.

Sears, Roebuck and Co., Chicago, Ill. Shoe soles. 580,353, Sept. 22; Serial No. 639,840, published June 16, 1953. Class 39.

Sherman Manufacturing Company, Sherman, Tex. Cotton duck. 580,204, Sept. 22; Serial No. 618,513, published June 30, 1953. Class 42.

Sherwood Distilling Co., The, Baltimore, to The Sherwood Distilling Co., Westminster, Md. Straight rye whiskey. 92,272–3, re-renewed June 24, 1953. O. G. Sept. 22. Class 49.

Silent Sentry, Inc., Hollywood, Calif. Fire extinguisher brackets. 580,367, Sept. 22; Serial No. 641,095, published July 7, 1953. Class 13.

Sinclair Coal Company, Kansas City, Mo. Coal. 580,327, Sept. 22; Serial No. 638,217, published June 23, 1953. Class 1.

Skelly Oil Company, Kansas City, Mo. Gas utilization equipment—namely, storage and utilization tanks. 580,287, Sept. 22; Serial No. 634,553, published June 16, 1953. Class 2.

Smith, Chester W., doing business under the name and style of Whitfield Chemical Company, Detroit, Mich. Cleaning solution. 580,277, Sept. 22; Serial No. 633,085, published June 23, 1953. Class 52.

Smith, Kline & French Laboratories, Philadelphia, Pa. Unit of medication. 580,284, Sept. 22; Serial No. 634,057, published Feb. 17, 1953. Class 18.

Snap Products Corp., Syracuse, N. Y., assignor, by mesne assignments, to Snap Products Corp., Chicago, Ill. Replacement faucet seats. 580,211, Sept. 22; Serial No. 620,627, published July 7, 1953. Class 13.

Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Paper bags. 580,195, Sept. 22; Serial No. 616,980, published June 23, 1953. Class 2.

Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Paper bags. 580,196, Sept. 22; Serial No. 616,987, published June 23, 1953. Class 2.

Southern Oil Chemical Company: *See*—
Jones, Edward N.

Space-Maid, Inc., New York, N. Y. Table top protectors made of textile padding, etc. 580,192, Sept. 22; Serial No. 615,947, published June 30, 1953. Class 42.

Stanco Incorporated, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y. Preparation for the treatment of the respiratory tract, muscles, limbs, etc. 305,636, renewed Aug. 22, 1953. O. G. Sept. 22. Class 18.

Standard Insole Company, Inc., Morris Plains, N. J. Rubber insoles. 580,234, Sept. 22; Serial No. 627,778, published May 19, 1953. Class 39.

Standard Oil Company of New Jersey, Wilmington, Del., to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y. Lubricating oils. 305,056, renewed July 25, 1953. O. G. Sept. 22. Class 15.

Standard Oil Company of New Jersey, Wilmington, Del., to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y. Lubricating oils. 305,422–8, renewed Aug. 15, 1953. O. G. Sept. 22. Class 15.

Standard Oil Company of New Jersey, Wilmington, Del., to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y. Lubricating oils. 305,436–8, renewed Aug. 15, 1953. O. G. Sept. 22. Class 15.

Standard Oil Company of New Jersey, Wilmington, Del., to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y. Fuel oils. 306,182, renewed Sept. 12, 1953. O. G. Sept. 22. Class 15.

Standard Oil Company of New Jersey, Wilmington, Del., to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y. Lubricating oils. 307,849–51, renewed Nov. 7, 1953. O. G. Sept. 22. Class 15.

Standard Oil Company of New Jersey, Wilmington, Del., to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y. Lubricating oils. 307,883–7, renewed Nov. 7, 1953. O. G. Sept. 22. Class 15.

Standard Oil Company of New Jersey, Wilmington, Del., to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y. Lubricating oils. 307,919, renewed Nov. 14, 1953. O. G. Sept. 22. Class 15.

Standard Oil Company of New Jersey, Wilmington, Del., to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y. Lubricating greases. 307,920, renewed Nov. 14, 1953. O. G. Sept. 22. Class 15.

Standard Seed Co.: *See*—
Berry Seed Company.

Standard Seed and Feed Company: *See*—
Berry Seed Company.

Stanley Works, The, New Britain, Conn. Knobs. 580,360, Sept. 22; Serial No. 640,232, published June 16, 1953. Class 13.

Stedman Manufacturing Company, Asheboro, N. C. Men's and boys' underwear. 580,250, Sept. 22; Serial No. 630,457, published June 16, 1953. Class 39.

Stellad Products, Inc., Indianapolis, Ind. Liquid cleaner. 580,309, Sept. 22; Serial No. 636,910, published June 16, 1953. Class 52.

Sterling Pulp & Paper Company, Eau Clair, Wis. Paper napkins, paper towels, toilet tissue, etc. 580,318, Sept. 22; Serial No. 637,553, published May 12, 1953. Class 37.

Stineway Drug Company, Chicago, Ill. Women's hosiery. 580,175, Sept. 22; Serial No. 605,926, published June 16, 1953. Class 39.

Stratoflex, Inc., Fort Worth, Tex. Metal hose fittings and couplings. 580,278, Sept. 22; Serial No. 633,394, published June 16, 1953. Class 13.

Stuart Laboratories, Inc., Hempstead, N. Y. Powders in capsule form. 580,283, Sept. 22; Serial No. 633,950, published June 23, 1953. Class 18.

Sun-Pacific Inc., San Diego, Calif. Food products. 580,328, Sept. 22; Serial No. 638,223, published June 30, 1953. Class 46.

Sun Maid Raisin Growers of California, Fresno, Calif. Raisin juice. 580,351, Sept. 22; Serial No. 639,594, published June 30, 1953. Class 46.

Sunnen Products Company, St. Louis, Mo. Hones, abrasive stones, abrasive grains, etc. 580,162, Sept. 22; Serial No. 593,317, published June 16, 1953. Class 4.

Superior Pharmacal Co., The, Dayton, Ohio. Hypnotic tablet. 580,363, Sept. 22; Serial No. 640,590, published June 23, 1953. Class 18.

Sutherland Paper Company, Kalamazoo, Mich. Shirt and collar protectors of cardboard. 580,288, Sept. 22; Serial No. 635,003, published May 12, 1953. Class 37.

Taylor Instrument Companies, Rochester, N. Y. Thermometers. 306,428, renewed Sept. 19, 1953. O. G. Sept. 22. Class 26.

Tested Papers of America, Inc., Chicago, Ill. Facial and toilet tissue, wax paper, paper napkins, etc. 580,193, Sept. 22; Serial No. 616,521, published May 19, 1953. Class 37.

Tested Papers of America, Inc., Chicago, Ill. Paper towels, facial tissue, toilet tissue, etc. 580,194, Sept. 22; Serial No. 616,524, published May 19, 1953. Class 37.

Tested Papers of America, Inc., Chicago, Ill. Facial tissue type paper napkins. 580,356, Sept. 22; Serial No. 639,965, published June 23, 1953. Class 37.

Thalheim's Wearwell Shoe Co, Inc., New York, N. Y. Leather and rubber shoes. 580,214, Sept. 22; Serial No. 622,870, published June 16, 1953. Class 39.

Thompson Bros. Shoe Co., Brockton, Mass. Children's boots and shoes. 580,152–3, Sept. 22; Serial Nos. 554,736–7, published June 16, 1953. Class 39.

Threads, Incorporated, Gastonia and Arkray Village, to Threads, Incorporated, Gastonia, N. C. Sewing threads. 308,300, renewed Nov. 28, 1953. O. G. Sept. 22. Class 43.

Todd Company, Inc., The, Rochester, N. Y. Posting boards and partially printed forms. 580,184, Sept. 22; Serial No. 612,939, published May 19, 1953. Class 37.

Toughbuoy Co.: *See*—
Adams, Paul L.

Tragasol Products Limited: *See*—
Gum, Tragasol Supply Company Limited, The.

Trix Distributors, Inc., Seattle, Wash. Tweezers for toilet use. 580,379, Sept. 22; Serial No. 641,093, published June 30, 1953. Class 44.

Truitt Brothers, Inc., Belfast, Maine. Boys' and men's shoes. 580,300, Sept. 22; Serial No. 636,400, published June 9, 1953. Class 39.

Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.

Union Carbide and Carbon Corporation: *See*—
National Carbon Company.

U. S. Fabrics, Inc., New York, N. Y. Textile fabrics. 580,374–5, Sept. 22; Serial No. 641,530–1, published June 30, 1953. Class 42.

United States Shoe Corporation, The, Cincinnati, Ohio. Shoes. 580,331, Sept. 22; Serial No. 638,334, published June 16, 1953. Class 39.

Universal Refining Products Co., Inc., New York, N. Y. Chemical compound for removing soot. 580,199, Sept. 22; Serial No. 617,684, published June 23, 1953. Class 52.

Usines de l'Allondon S. A., La Plaine, Switzerland. Artificial and synthetical perfumes, essential oils. 304,783, July 18, 1933. Republished Sept. 22. Classes 6 and 51.

Vannozzi, Lawrence, doing business under the trade name of Wonder Chemical Co., Trenton, N. J. Compound in the nature of a disinfectant, bleach, cleanser and deodorant. 580,235, Sept. 22; Serial No. 627,784, published June 9, 1953. Class 52.

Van Raalte Company, Inc., New York, N. Y. Women's hosiery. 580,393, Sept. 22; Serial No. 600,633. Class 39.

Virginia Smelting Company, West Norfolk, Va. Printed publications. 580,151, Sept. 22; Serial No. 530,278, published June 16, 1953. Class 38.

Wappler, Inc., New York, N. Y. Apparatus to be used as a complete unit in surgery. 580,182, Sept. 22; Serial No. 610,397, published June 23, 1953. Class 44.

Wayside Turkey Farms, Prospect, Ohio. Dressed turkeys. 580,335, Sept. 22; Serial No. 638,679, published June 30, 1953. Class 46.

Weather-Seal, Inc., Barberton, Ohio. Construction kits comprising hinges, side runs, etc. 580,290, Sept. 22; Serial No. 635,107, published June 30, 1953. Class 13.

Weiger Weed & Company, Detroit, Mich. Non-consumable resistance welding tips or electrodes, spot welding tips, seam welding wheels, etc. 580,364, Sept. 22; Serial No. 640,592, published June 30, 1953. Class 21.

West Disinfecting Company, Long Island City, N. Y. Liquid cleanser, deodorant and disinfectant. 580,225, Sept. 22; Serial No. 625,161, published June 23, 1953. Class 52.

West Bend Aluminum Co., West Bend, Wis. Coffee makers. 580,368, Sept. 22; Serial No. 641,160, published July 7, 1953. Class 13.

Weston, Byron, Company: *See*—
Hampshire Paper Company.

Whitfield Chemical Company: *See*—
Smith, Chester W.

Wilbur-Ellis Company, San Francisco, Calif. Cod-liver oil. 259,542, July 30, 1929. Republished Sept. 22. Class 6.

Wilbur-Ellis Company, San Francisco, Calif. Feeding products. 259,979, Aug. 13, 1929. Republished Sept. 22. Class 46.

Wittek Manufacturing Co., Chicago, Ill. Hose clamps. 580,366, Sept. 22; Serial No. 640,990, published July 7, 1953. Class 13.

Wohl Shoe Company, St. Louis, Mo. Shoes. 580,150, Sept. 22; Serial No. 544,955, published June 16, 1953. Class 39.

Wonder Chemical Co.: *See*—
Vannozzi, Lawrence.

Wright Leather Specialty Co., St. Louis, Mo. Articles made of plastics, namely, billfolds, coin purses, etc. 580,186, Sept. 22; Serial No. 614,599, published June 16, 1953. Class 3.

Wrigley, Wm., Jr. Company, Chicago, Ill. Chewing gum. 304,384, renewed July 4, 1953. O. G. Sept. 22. Class 46.

Wynn, Clarence M., doing business as Wynoil Laboratories, Azusa, Calif. Compound useable as a gasoline dehydrating additive and carburetor cleaner. 580,185, Sept. 22; Serial No. 613,391, published June 16, 1953. Class 52.

Wynoil Laboratories: *See*—
Wynn, Clarence M.

Young, L. A., Spring & Wire Corporation, San Leandro, Calif. Prefabricated metal wire fence sections. 580,409, Sept. 22; Serial No. 650,238. Class 13.

Young, Stephen A., Corporation, Flora, Ind. Plumbing fixtures. 580,200, Sept. 22; Serial No. 617,976, published July 7, 1953. Class 13.

Young, W. T., Foods, Inc., Lexington, Ky. Unshelled peanuts. 580,274, Sept. 22; Serial No. 632,766, published June 30, 1953. Class 46.

Zip Products Co.: *See*—
Miller, Lee C., Sr.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Baby chicks and hatching eggs. Featherland Farm Incorporated. 580,304, Sept. 22; Serial No. 636,518, published June 23, 1953.

Chamois skins. American Sponge and Chamois Company, Inc. 580,325, Sept. 22; Serial No. 638,048, published June 23, 1953.

Charcoal briquets. Kingsford Chemical Co. 580,332, Sept. 22; Serial No. 638,367, published June 23, 1953.

Coal. Peabody Coal Company. 580,272, Sept. 22; Serial No. 632,487, published June 23, 1953.

Coal. Sinclair Coal Company. 580,327, Sept. 22; Serial No. 638,217, published June 23, 1953.

Denatured alcohol. Dobell's solution, zinc ointment, etc. Peoples Drug Stores, Inc. 227,440, May 3, 1927. Republished Sept. 22.

Leathers, Thin. Hoyt and Worthen Tanning Corporation. 580,163, Sept. 22; Serial No. 594,460, published June 16, 1953.

Live and dressed ducks. Farmers' Commission House, Inc. 151,754, Feb. 14, 1922. Republished Sept. 22.

Mucilaginous products of vegetable origin. The Gum Tragasol Supply Company Limited. 92,070, re-renewed June 17, 1953. O. G. Sept. 22.

Synthetic staple fiber. Eastman Kodak Company. 580,301, Sept. 22; Serial No. 636,414, published June 23, 1953.

CLASS 2

Bags, Paper. Southern Advance Bag & Paper Co. Inc. 580,195, Sept. 22; Serial No. 616,980, published June 23, 1953.

Bags, Paper. Southern Advance Bag & Paper Co. Inc. 580,196, Sept. 22; Serial No. 616,987, published June 23, 1953.

Boxes, cartons and cases, Partitioned. O. F. Igersheim. 580,324, Sept. 22; Serial No. 637,993, published June 2, 1953.

Coasters, Drinking glass, napkin holders, etc. Bridgeport Moulded Products, Inc. 580,253, Sept. 22; Serial No. 629,834, published June 16, 1953.

Dispensers, Tape. Better Packages, Incorporated. 580,294, Sept. 22; Serial No. 635,680, published June 23, 1953.

Gas utilization equipment—namely storage and utilization tanks. Skelly Oil Company. 580,287, Sept. 22; Serial No. 634,553, published June 16, 1953.

Paper and burlap package wrappings, paper and fabric bags, crates, etc. The Lakewood Fireproof Storage Company. 223,693, Feb. 8, 1927. Republished Sept. 22.

CLASS 3

Articles made of plastics, namely, billfolds, coin purses, etc. Wright Leather Specialty Co. 580,186, Sept. 22; Serial No. 614,599, published June 16, 1953.

Wallets and purses. Bernard Cahn Co., Inc. 580,352, Sept. 22; Serial No. 639,618, published June 16, 1953.

CLASS 4

Cleaning shot, Metallic. Metals Disintegrating Company, Inc. 580,191, Sept. 22; Serial No. 615,844, published June 30, 1953.

Hones, abrasive stones, abrasive grains, etc. Sunnen Products Company. 580,162, Sept. 22; Serial No. 593,317, published June 16, 1953.

Leather dressings and polishes. The Gum Tragasol Supply Company Limited. 92,071, re-renewed June 17, 1953. O. G. Sept. 22.

Polish, Shoe. Hollywood Shoe Polish, Inc. 580,315–16. Sept. 22; Serial Nos. 637,374–5, published June 23, 1953.

Wax. Kentile, Inc. 580,341, Sept. 22; Serial No. 639,171, published June 23, 1953.

CLASS 5

Adhesive. Kentile, Inc. 580,340, Sept. 22; Serial No. 639,170, published June 23, 1953.

Adhesive. Kentile, Inc. 580,342, Sept. 22; Serial No. 639,172, published June 23, 1953.

Adhesive cement, Cold cure, and rim and gasket shellac adhesive compound. The General Tire & Rubber Company. 580,177, Sept. 22; Serial No. 607,426, published June 23, 1953.
Adhesive, Liquid cementitious. Plastic Binding Corporation. 580,281, Sept. 22; Serial No. 633,629, published June 23, 1953.
Adhesive preparation. Larsen Products Corporation. 580,376, Sept. 22; Serial No. 641,556, published June 23, 1953.
Adhesive, Rubber. Minnesota Mining and Manufacturing Company. 580,370, Sept. 22; Serial No. 641,197, published June 23, 1953.
Adhesives and pastes. Kentile, Inc. 580,343, Sept. 22; Serial No. 639,177, published June 23, 1953.
Liquid core compound used in foundries as a binder for the sand. The Buckeye Products Company. 580,337, Sept. 22; Serial No. 638,687, published June 23, 1953.
Synthetic resins and solutions containing the same for bonding, laminating, and adhesive purposes. Reichhold Chemicals, Inc. 580,322, Sept. 22; Serial No. 637,722, published June 23, 1953.
Synthetic resins and solutions containing the same for bonding, laminating, and adhesive purposes. Reichhold Chemicals, Inc. 580,326, Sept. 22; Serial No. 638,103, published June 23, 1953.

CLASS 6

Chemically-treated colloidal clay. Filtrol Company of California. 303,533, renewed May 30, 1953. O. G. Sept. 22.
Chemically treated colloidal clay. Filtrol Company of California. 304,074, renewed June 20, 1953. O. G. Sept. 22.
Coating compositions and ingredients thereof for lithographic surfaces. Harris-Seybold Company. 580,203, Sept. 22; Serial No. 618,451, published June 30, 1953.
Cod-liver oil. Wilbur-Ellis Company. 259,542, July 30, 1929. Republished Sept. 22.
Denatured alcohol, Dobell's solution, zinc ointment, etc. Peoples Drug Stores, Inc. 227,440, May 3, 1927. Republished Sept. 22.
Denatured alcohol used for anti-freeze. L. M. Goldman. 373,030. Nov. 21, 1939. Republished Sept. 22.
Exothermic compounds. Foundry Services Limited. 580,222, Sept. 22; Serial No. 624,266, published Jan. 20, 1953.
Perfumes, Artificial and synthetical, essential oils. Usines de l'Allondon S. A. 304,783, July 18, 1933. Republished Sept. 22.
Petroleum for treating equipment to prevent scale and corrosion. E. N. Jones. 580,361, Sept. 22; Serial No. 640,403, published June 30, 1953.
Phosphorescent or fluorescent polymers, copolymers, synthetic plastics, etc. I. W. Ruderman. 580,323, Sept. 22; Serial No. 637,725, published June 30, 1953.
Sulphur, Superfine. Mathieson Chemical Corporation. 580,386, Sept. 22; Serial No. 644,044, published June 30, 1953.
Synthetic granular bone char. Baugh and Sons Company. 580,227, Sept. 22; Serial No. 625,710, published June 30, 1953.

CLASS 7

Rope, Tube, wall-paper twine, jute wrapping twine, etc. Hanover Cordage Company. 580,385, Sept. 22; Serial No. 642,111, published June 23, 1953.
Rope, Wire. A. Leschen & Sons Rope Company. 580,161, Sept. 22; Serial No. 592,735, published June 16, 1953.
Twine. Hanover Cordage Company. 580,384, Sept. 22; Serial No. 642,110, published June 23, 1953.
Twine, Coarse-finish. Hanover Cordage Company. 580,380, Sept. 22; Serial No. 642,106, published June 23, 1953.
Twine, Hemp. Hanover Cordage Company. 580,381, Sept. 22; Serial No. 642,107, published June 23, 1953.
Twine, White-fibre. Hanover Cordage Company. 580,383, Sept. 22; Serial No. 642,109, published June 23, 1953.
Twines, White-fibre. Hanover Cordage Company. 580,382, Sept. 22; Serial No. 642,108, published June 23, 1953.

CLASS 9

Gun cases, saddle scabbards, pistol holsters, and cartridge cases. The Schoellkopf Company. 580,240, Sept. 22; Serial No. 628,227, published June 16, 1953.

CLASS 10

Nitrogen solutions used as or in the production of soil fertilizers. Commercial Solvents Corporation. 580,237, Sept. 22; Serial No. 627,930, published June 16, 1953.
Plant hormones combined with seed disinfectants and protectants. Berry Seed Company. 580,229, Sept. 22; Serial No. 626,142, published June 16, 1953.

CLASS 12

Diners or lunchwagons, Roadside. Jerry O'Mahony, Incorporated. 580,389, Sept. 22; Serial No. 566,273.
Lumber. Baisa Ecuador Lumber Corp. 580,244, Sept. 22; Serial No. 629,342, published Jan. 20, 1953.

CLASS 13

Brackets or clips, Picture hanging. Evergrip Products Corporation. 580,334, Sept. 22; Serial No. 638,641, published June 30, 1953.
Coffee makers. West Bend Aluminum Co. 580,368, Sept. 22; Serial No. 641,160, published July 7, 1953.
Construction kits comprising hinges, side runs, etc. Weather-Seal, Inc. 580,290, Sept. 22; Serial No. 635,107, published June 30, 1953.
Door stop, for a screen and door closer. Oley Products Inc. 580,297, Sept. 22; Serial No. 636,304, published June 30, 1953.
Fire extinguisher brackets. Silent Sentry, Inc. 580,367, Sept. 22; Serial No. 641,095, published July 7, 1953.
Floats for valves in water closet installations. P. L. Adams. 580,408, Sept. 22; Serial No. 634,723.
Hose clamps. Wittek Manufacturing Co. 580,366, Sept. 22; Serial No. 640,990, published July 7, 1953.
Hose fittings and couplings, Metal. Stratoflex, Inc. 580,278, Sept. 22; Serial No. 633,394, published June 16, 1953.
Knobs. The Stanley Works. 580,360, Sept. 22; Serial No. 640,232, published June 16, 1953.
Metal hooks, Various and sundry, fabricated metal pipe, cast metal pipe, etc. Electric Steel Foundry. 580,159, Sept. 22; Serial No. 579,866, published June 23, 1953.
Metal platters and serving trays. Arlington Corporation. 580,307, Sept. 22; Serial No. 636,872, published June 16, 1953.
Metal wire fence sections, Prefabricated. L. A. Young Spring & Wire Corporation. 580,400, Sept. 22; Serial No. 650,238.
Metallic receptacles, Decorated. I. D. Company. 580,183, Sept. 22; Serial No. 611,227, published July 7, 1953.
Pan, Disposable broiling. Broil-Away Corporation. 580,336, Sept. 22; Serial No. 638,686, published July 7, 1953.
Parachute hardware. The Capewell Manufacturing Company. 580,265, Sept. 22; Serial No. 631,543, published June 23, 1953.
Pipe and pipe fittings. Anesite Company. 580,362, Sept. 22; Serial No. 640,422, published July 7, 1953.
Pipe and tubing, Line metal. Louis Greenspon, Inc. 580,357, Sept. 22; Serial No. 640,119, published June 16, 1953.
Plumbing fixtures. Stephen A. Young Corporation. 580,200, Sept. 22; Serial No. 617,976, published July 7, 1953.
Repair sleeves and weld sleeves, boiler nozzles, weld necks, etc. Lenape Hydraulic Pressing & Forging Co. 580,275, Sept. 22; Serial No. 632,816, published June 30, 1953.
Replacement faucet seats. Snap Products Corp. 580,211, Sept. 22; Serial No. 620,627, published July 7, 1953.
Screws. Mac-It Parts Company. 91,886, re-renewed June 3, 1953. O. G. Sept. 22.
Sinks. Active Tool & Manufacturing Co. 580,209, Sept. 22; Serial No. 620,079, published June 30, 1953.
Staples. Markwell Manufacturing Company, Inc. 580,401, Sept. 22; Serial No. 627,750.
Wire mesh fabric, Welded galvanized. The Gilbert & Bennett Mfg. Co. 580,270, Sept. 22; Serial No. 632,205, published July 7, 1953.

CLASS 15

Greases, Lubricating. Standard Oil Company of New Jersey. 307,920, renewed Nov. 14, 1953. O. G. Sept. 22.
Oil, Lubricating. Bigren Limited. 580,264, Sept. 22; Serial No. 630,827, published June 16, 1953.
Oils, Fuel. Standard Oil Company of New Jersey. 306,182, renewed Sept. 12, 1953. O. G. Sept. 22.
Oils, Lubricating. Standard Oil Company of New Jersey. 305,056, renewed July 25, 1953. O. G. Sept. 22.
Oils, Lubricating. Standard Oil Company of New Jersey. 305,422–8, renewed Aug. 15, 1953. O. G. Sept. 22.
Oils, Lubricating. Standard Oil Company of New Jersey. 305,436–8, renewed Aug. 15, 1953. O. G. Sept. 22.
Oils, Lubricating. Standard Oil Company of New Jersey. 307,849–51, renewed Nov. 7, 1953. O. G. Sept. 22.
Oils, Lubricating. Standard Oil Company of New Jersey. 307,883–7, renewed Nov. 7, 1953. O. G. Sept. 22.
Oils, Lubricating. Standard Oil Company of New Jersey. 307,919, renewed Nov. 14, 1953. O. G. Sept. 22.

CLASS 16

Asphaltic emulsion for use as a protective coating, etc. Johns-Manville Corporation. 305,908, renewed Aug. 29, 1953. O. G. Sept. 22.
Coating composition, Weather-proof. The Aber Company Inc. 580,173, Sept. 22; Serial No. 605,389, published June 16, 1953.
Varnish stain. The Marietta Paint & Color Co. 94,189, re-renewed Nov. 11, 1953. O. G. Sept. 22.

CLASS 18

Denatured alcohol, Dobell's solution, zinc ointment, etc. Peoples Drug Stores, Inc. 227,440, May 3, 1927. Republished Sept. 22.
Home treatment kits, containing medicinal ingredients, etc. A. Romeo. 580,291, Sept. 22; Serial No. 635,326, published June 23, 1953.
Hypnotic tablet. The Superior Pharmacal Co. 580,363, Sept. 22; Serial No. 640,590, published June 23, 1953.

Medicinal preparation. Eli Lilly and Company. 580,346, Sept. 22; Serial No. 639,318, published June 23, 1953.
Medicinal preparation, Tonic. The Sydney Ross Co. 92,376, re-renewed July 1, 1953. O. G. Sept. 22.
Medicinal salves. L. H. Korman. 580,157, Sept. 22; Serial No. 567,148, published June 23, 1953.
Ointment. I. A. Edelstein. 290,702, Jan. 12, 1932. Republished Sept. 22.
Penicillin preparation. Bristol Laboratories Inc. 580,256, Sept. 22; Serial No. 630,312, published June 23, 1953.
Penicillin preparation. Chas. Pfizer & Co., Inc. 580,348, Sept. 22; Serial No. 639,440, published June 16, 1953.
Pharmaceutical preparations. Coastal Laboratories, Inc. 580,396, Sept. 22; Serial No. 621,389.
Polyvinyl pyrrolidone in bulk. Schenley Laboratories, Inc. 580,239, Sept. 22; Serial No. 627,971, published June 16, 1953.
Powders in capsule form. Stuart Laboratories, Inc. 580,283, Sept. 22; Serial No. 633,950, published June 23, 1953.
Preparation for the treatment of the respiratory tract, muscles, limbs, etc. Stanco Incorporated. 305,636, renewed Aug. 22, 1953. O. G. Sept. 22.
Preparation in tablet form for indigestion. Allied Drugs, Inc. 580,236, Sept. 22; Serial No. 627,918, published June 23, 1953.
Reagent preparation for the determination of chlorides in body fluids. Ames Company, Inc. 580,260, Sept. 22; Serial No. 632,068, published June 23, 1953.
Remedies for tuberculosis. Chemie Grünenthal G. m. b. H. 580,243, Sept. 22; Serial No. 629,285, published June 23, 1953.
Tablet consisting of a sedative and muscular relaxant. Schenley Laboratories, Inc. 580,238, Sept. 22; Serial No. 627,964, published June 16, 1953.
Unit of medication. Smith, Kline & French Laboratories. 580,284, Sept. 22; Serial No. 634,067, published Feb. 17, 1953.
Vitamin-mineral food supplement. Family Products, Inc. 580,181, Sept. 22; Serial No. 609,970, published June 16, 1953.

CLASS 21

All electric adjustable speed drive. The Louis Allis Company. 580,395, Sept. 22; Serial No. 606,270.
Battery cases, Storage. Atlas Supply Company. 306,776, renewed Dec. 19, 1953. O. G. Sept. 22.
Dry cells. National Carbon Company. 94,480, re-renewed Dec. 9, 1953. O. G. Sept. 22.
Electric motors, thermostatically-controlled electrical switches, transformers, etc. Gilbert & Barker Manufacturing Company. 307,108, renewed Oct. 17, 1953. O. G. Sept. 22.
Electrically sensitive speaker device. Bulova Watch Company, Inc. 580,405, Sept. 22; Serial No. 632,657.
Electrodes. Eutectic Welding Alloys Corporation. 580,365, Sept. 22; Serial No. 640,732, published June 30, 1953.
Lighting equipment, Electric. Century Lighting Equipment, Inc. 300,921, renewed Feb. 14, 1953. O. G. Sept. 22.
Switch boxes. General Electric Company. 580,398, Sept. 22; Serial No. 622,818.
Welding tips or electrodes, Non-consumable resistance, spot welding tips, seam welding wheels, etc. 580,364, Sept. 22; Serial No. 640,592, published June 30, 1953.

CLASS 22

Fishing tackle and fish baits. G. F. Cook. 580,394, Sept. 22; Serial No. 604,519.
Plastic compositions for producing toy balloons. Brian Specialties, Inc. 580,403, Sept. 22; Serial No. 632,013.

CLASS 23

Centrifugal extractors. The Braun Corporation. 92,316, re-renewed July 1, 1953. O. G. Sept. 22.
Chilling tanks. Gordon Johnson Company. 580,404, Sept. 22; Serial No. 632,617.
Food choppers, cylindrical food choppers, rotary food choppers, etc. Landers, Frary & Clark. 305,234, renewed Aug. 8, 1953. O. G. Sept. 22.
Internal combustion engines; power transmissions; accessory machine mountings and accessory drive mechanisms, etc. Gray Marine Motor Company. 580,170–1, Sept. 22; Serial Nos. 602,029–30, published June 16, 1953.
Knives. Consolidated Sewing Machine & Supply Co., Inc. 580,397, Sept. 22; Serial No. 622,480.
Lift-type disc harrows. J. P. Robertson. 580,392, Sept. 22; Serial No. 597,699.
Metal drum and container reconditioning equipment. Drum Equipment Corporation. 580,176, Sept. 22; Serial No. 607,819, published June 16, 1953.
Package forming, filling, and sealing machines. Aktiebolaget Tetra Pak. 580,219, Sept. 22; Serial No. 623,384, published June 16, 1953.
Package forming, filling, and sealing machines. Aktiebolaget Tetra Pak. 580,220, Sept. 22; Serial No. 623,386, published June 16, 1953.
Razor blades, Safety. American Safety Razor Corporation. 580,390, Sept. 22; Serial No. 570,354.
Rock crushers, sheave blocks, sheave anchors, etc. Alloy Steel and Metals Company. 580,174, Sept. 22; Serial No. 605,829, published June 16, 1953.
Saw attachment for power drills and blades therefor, Reciprocating. RCS Tool Sales Corporation. 580,391, Sept. 22; Serial No. 588,517.
Thread files or chasers. Krome Company, Inc. 580,402, Sept. 22; Serial No. 631,741.
Tool in the form of a conduit, Hand. Pennsylvania Refining Company. 580,165, Sept. 22; Serial No. 596,356, published June 16, 1953.

CLASS 26

Drafting tables. Haskell Manufacturing Company, Inc. 440,116, Aug. 10, 1948. Republished Sept. 22.
Money-changers. Brandt Cashier Company. 93,421, renewed Sept. 16, 1953. O. G. Sept. 22.
Thermometers. Taylor Instrument Companies. 306,425, renewed Sept. 19, 1953. O. G. Sept. 22.

CLASS 28

Jewelry. Comptoir de l'Industrie Cotonniere Société à Responsabilité Limitée. 580,207, Sept. 22; Serial No. 619,485, published June 9, 1953.

CLASS 29

Brushes, Fountain. Edward E. Gurian & Co., Inc. 580,400, Sept. 22; Serial No. 626,324.
Window cleaners and parts thereof. Greenview Manufacturing Company. 305,534, Aug. 22, 1933. Republished Sept. 22.

CLASS 34

Burners, Oil. Gilbert & Barker Manufacturing Company. 306,954, renewed Oct. 10, 1953. O. G. Sept. 22.
Reflectors, Glass. Curtis Lighting, Inc. 304,049, June 20, 1933. Republished Sept. 22.

CLASS 35

Shims. Laminated Shim Company, Incorporated. 580,280, Sept. 22; Serial No. 633,546, published June 30, 1953.
Tires, Rubber vehicle. The Dayton Rubber Company. 580,231, Sept. 22; Serial No. 627,383, published May 12, 1953.
Tires, Vehicle. The Firestone Tire & Rubber Company. 580,262, Sept. 22; Serial No. 630,672, published May 12, 1953.

CLASS 36

Phonograph records, Grooved. Columbia Records Inc. 580,321, Sept. 22; Serial No. 637,701, published June 30, 1953.
Phonograph records, Grooved. Gold Rain Recording Company. 580,155, Sept. 22; Serial No. 559,920, published June 30, 1953.
Phonograph records, Grooved. The Gramophone Company Limited. 580,349, Sept. 22; Serial No. 639,470, published June 30, 1953.
Phonographs and recorders. Miller and Rhoads, Incorporated. 580,217, Sept. 22; Serial No. 623,115, published June 30, 1953.

CLASS 37

Binders, covers or folders, partially printed forms, etc. Charles R. Hadley Company. 580,168, Sept. 22; Serial No. 601,723, published May 12, 1953.
Binders for holding accounting forms and blank forms therefor. T. E. Capp. 580,221, Sept. 22; Serial No. 623,645, published June 16, 1953.
Paper and burlap package wrappings, paper and fabric bags, crates, etc. The Lakewood Fireproof Storage Company. 223,693. Feb. 8, 1927. Republished Sept. 22.
Paper napkins, Facial tissue type. Tested Papers of America, Inc. 580,356, Sept. 22; Serial No. 639,965, published June 23, 1953.
Paper napkins, facial tissue, waxed paper, etc. Crown Zellerbach Corporation. 580,312, Sept. 22; Serial No. 637,268, published May 5, 1953.
Paper napkins, paper towels, toilet tissue, etc. Sterling Pulp & Paper Company. 580,318, Sept. 22; Serial No. 637,553, published May 12, 1953.
Paper towels, facial tissue, toilet tissue, etc. Tested Papers of America, Inc. 580,194, Sept. 22; Serial No. 616,524, published May 19, 1953.
Paper, Writing, and for wedding paper. Fox River Paper Corporation. 580,359, Sept. 22; Serial No. 640,203, published June 23, 1953.
Papers, High-grade. Hampshire Paper Company. 59,476, Jan. 8, 1907. Republished Sept. 22.
Partially printed forms. K. Klaus. 580,267, Sept. 22; Serial No. 631,624, published May 12, 1953.
Pen nibs, Fountain. Eberhard Faber Pencil Company. 580,314, Sept. 22; Serial No. 637,305, published May 5, 1953.
Pencils, Wood encased. Eagle Pencil Company. 580,295, Sept. 22; Serial No. 636,218, published May 19, 1953.
Posting boards and partially printed forms. The Todd Company, Inc. 580,184, Sept. 22; Serial No. 612,939, published May 19, 1953.
Shirt and collar protectors of cardboard. Sutherland Paper Company. 580,288, Sept. 22; Serial No. 635,003, published May 12, 1953.
Tissue, Facial and toilet, wax paper, paper napkins, etc. Tested Papers of America, Inc. 580,193, Sept. 22; Serial No. 616,521, published May 19, 1953.

Tissues, Cleansing, and toilet tissues. The Rieser Company, Inc. 580,320, Sept. 22; Serial No. 637,613, published May 12, 1953.
Wallpaper. Canadian Wallpaper Manufacturers Limited. 580,156, Sept. 22; Serial No. 561,487, published May 26, 1953.

CLASS 38

Cartoons, Series of. F. Fox. 304,868, renewed July 18, 1953. O. G. Sept. 22.
Publications, Printed. Virginia Smelting Company. 580,151, Sept. 22; Serial No. 550,278, published June 16, 1953.

CLASS 39

Apparel and sportswear, Men's and boys'. The Russell Manufacturing Company. 580,201, Sept. 22; Serial No. 618,099, published June 16, 1953.
Belts, Garter. Beltx Corporation. 580,276, Sept. 22; Serial No. 632,914, published Jan. 13, 1953.
Boots and shoes, Children's. Thompson Bros. Shoe Co. 580,152–3, Sept. 22; Serial Nos. 554,736–7, published June 16, 1953.
Boots and shoes, Leather. Chippewa Shoe Co. 580,224, Sept. 22; Serial No. 624,632, published June 2, 1953.
Clothes, Children's play. Harry Lang Mfg. Co. 580,158, Sept. 22; Serial No. 577,439, published Oct. 24, 1950.
Clothing. American Cyanamid Company. 580,226, Sept. 22; Serial No. 625,183, published June 16, 1953.
Clothing. Cavu Clothes, Inc. 580,345, Sept. 22; Serial No. 639,263, published June 16, 1953.
Clothing, Men's. Eagle Clothes, Inc. 580,178, Sept. 22 Serial No. 607,847, published Aug. 26, 1952.
Clothing, Men's. Eagle Clothes, Inc. 580,179, Sept. 22 Serial No. 607,848, published June 16, 1953.
Clothing, Men's, young men's and youths'. Sears, Roebuck and Co. 580,154, Sept. 22; Serial No. 559,332, published June 16, 1953.
Coats and suits, Ladies'. City Stores Company. 580,299, Sept. 22; Serial No. 636,342, published June 16, 1953.
Coats and suits, Ladies' and misses'. Tobias Klipstein, Inc. 580,255, Sept. 22; Serial No. 630,193, published June 23, 1953.
Coats, Ladies'. Petite Miss Co. 580,330, Sept. 22; Serial No. 638,311, published June 16, 1953.
Coats, suits, jackets, etc., Women's, misses' and juniors'. Leeds Ltd. Coats, Inc. 392,248, Dec. 16, 1941. Republished Sept. 22.
Dresses, Suits, jackets, etc., Women's, misses', juniors', and children's. Chalet, Inc. 580,198, Sept. 22; Serial No. 617,188, published June 16, 1953.
Garments, Ladies' outer. Hiller Bros. & Hiller, Inc. 580,310, Sept. 22; Serial No. 636,982, published June 16, 1953.
Hats and hat bodies, Men's, women's, and children's. Merrimac Hat Corporation. 580,167, Sept. 22; Serial No. 600,441, published June 30, 1953.
Heels and soles. The Goodyear Tire & Rubber Company. 580,313, Sept. 22; Serial No. 637,273, published June 16, 1953.
Hosiery. Gold Maid Hosiery Mills, Inc. 302,192, renewed Apr. 4, 1953. O. G. Sept. 22.
Hosiery. Julius Kayser & Co. 580,260, Sept. 22; Serial No. 630,539, published June 16, 1953.
Hosiery, Women's. Sanson Hosiery Mills, Inc. 580,258, Sept. 22; Serial No. 630,451, published June 16, 1953.
Hosiery, Women's. Stineway Drug Company. 580,175, Sept. 22; Serial No. 605,926, published June 16, 1953.
Hosiery, Women's. Van Raalte Company, Inc. 580,393, Sept. 22; Serial No. 600,633.
Insoles for shoes, Removable. M. A. Oberman & Son. 580,333, Sept. 22; Serial No. 638,371, published June 16, 1953.
Insoles, Rubber. Standard Insole Company, Inc. 580,234, Sept. 22; Serial No. 627,778, published May 19, 1953.
Jackets, Men's, women's, boys' and girls'. Amco Athletic Apparel Corp. 580,213, Sept. 22; Serial No. 622,421, published June 16, 1953.
Outerwear, Men's, women's, boys', and girls'. Marjorie Benedikter, Inc. 580,293, Sept. 22; Serial No. 635,578, published May 26, 1953.
Overcoats, topcoats, coats, etc., Men's, women's, boys', girls', children's and infants'. 580,350, Sept. 22; Serial No. 639,530, published June 16, 1953.
Pajamas, bath robes, lounging robes, etc., Girls' and misses' sleeping and lounging. Geisha Robe Co., Inc. 580,338, Sept. 22; Serial No. 638,904, published June 2, 1953.
Scuffs or slippers. R. G. Barry Corporation. 580,180, Sept. 22; Serial No. 607,920, published June 16, 1953.
Shirts and pajamas, Men's outer. The Manhattan Shirt Company. 580,339, Sept. 22; Serial No. 638,963, published June 16, 1953.
Shoe soles. Sears, Roebuck and Co. 580,353, Sept. 22; Serial No. 639,840, published June 16, 1953.
Shoes. Commonwealth Shoe and Leather Company. 580,338, Sept. 22; Serial No. 640,194, published June 16, 1953.
Shoes. Foot Pleasure Shoe Company. 580,160, Sept. 22; Serial No. 592,140, published June 16, 1953.
Shoes. Handcraft Company, Inc. 580,233, Sept. 22; Serial No. 627,745, published June 16, 1953.
Shoes. The United States Shoe Corporation. 580,331, Sept. 22; Serial No. 638,334, published June 16, 1953.
Shoes. Wohl Shoe Company. 580,150, Sept. 22; Serial No. 544,955, published June 16, 1953.
Shoes, Boys' and men's. Truitt Brothers, Inc. 580,300, Sept. 22; Serial No. 636,400, published June 9, 1953.
Shoes, Ladies'. Cannon Shoe Company. 580,298, Sept. 22; Serial No. 636,339, published June 16, 1953.
Shoes, Leather and rubber. Thalheim's Wearwell Shoe Co. Inc., New York, N. Y. 580,214, Sept. 22; Serial No. 622,870, published June 16, 1953.
Shoes, Men's, women's, and children's. M. J. Markell. 580,303, Sept. 22; Serial No. 636,486, published June 16, 1953.
Shoes, Women's casual. Oomphies, Inc. 580,189, Sept. 22; Serial No. 615,719, published Sept. 23, 1952.
Shoes, Women's, misses', and girls'. Franklin Simon & Co. Inc. 580,254, Sept. 22; Serial No. 630,097, published June 16, 1953.
Skirts, slacks shorts, etc., Junior and misses'. Loomtogs, Inc. 580,250, Sept. 22; Serial No. 629,576, published June 16, 1953.
Slippers and bootees. Alta Products Corporation. 580,305, Sept. 22; Serial No. 636,673, published June 9, 1953.
Slippers, Ladies'. Feder Industries, Inc. 580,216, Sept. 22; Serial No. 623,048, published June 16, 1953.
Slippers, Men's. The Nolde and Horst Company. 580,169, Sept. 22; Serial No. 601,997, published June 2, 1953.
Socks, Knitted. May Hosiery Mills. 580,166, Sept. 22; Serial No. 597,890, published Mar. 18, 1952.
Stoles, Mink fur, mink fur capes, mink fur jackets, etc. Frishman & Gintel. 580,306, Sept. 22; Serial No. 636,847, published June 16, 1953.
Suits and coats, Men's and women's. Patton Manufacturing Company. 580,164, Sept. 22; Serial No. 595,975, published Oct. 14, 1952.
Suits, overcoats, rain-coats, Men's and boys'. Harry Myers and Company, Inc. 580,292, Sept. 22; Serial No. 635,568, published June 16, 1953.
Suits, sport coats, topcoats, etc., Men's. Michaels, Stern & Company, Incorporated. 580,354, Sept. 22; Serial No. 639,948, published June 16, 1953.
Suits, Women's and misses'. Craftshire Sports, Inc. 580,268, Sept. 22; Serial No. 631,651, published June 16, 1953.
Sweaters, Ladies'. Remart Sportswear Corporation. 580,279, Sept. 22; Serial No. 633,509, published June 2, 1953.
Underwear. The B. V. D. Company, Inc. 304,980, renewed July 25, 1953. O. G. Sept. 22.
Underwear. P. H. Hanes Knitting Company. 580,302, Sept. 22; Serial No. 636,417, published June 9, 1953.
Underwear, Men's and boys'. Stedman Manufacturing Company. 580,259, Sept. 22; Serial No. 630,457, published June 16, 1953.
Underwear, pajamas, and sweaters, Men's, women's, and children's. Best Wear Products, Inc. 580,215, Sept. 22; Serial No. 622,938, published June 2, 1953.
Underwear, slips, nightgowns, and pajamas, Ladies'. Goldblatt Bros. Inc. 580,187, Sept. 22; Serial No. 614,698, published June 16, 1953.

CLASS 40

Combs. E. I. du Pont de Nemours and Company. 580,308, Sept. 22; Serial No. 636,885, published May 12, 1953.
Cuff links and buttons. Olin Industries, Inc. 580,228, Sept. 22; Serial No. 625,999, published June 2, 1953.
Glove holders, flower holders, combination perfume pin and flower holders, etc. Helena Rubinstein, Inc. 580,188, Sept. 22; Serial No. 614,722, published May 12, 1953.
Hooks and eyes, Sets of. Hook-Flex Company. 580,319, Sept. 22; Serial No. 637,588, published May 12, 1953.
Pins, Bobby, and hair pins. Gaylord Products, Incorporated. 580,311, Sept. 22; Serial No. 637,178, published May 12, 1953.
Pins, Safety, and hooks and eyes. Scovill Manufacturing Company. 580,249, Sept. 22; Serial No. 629,524, published May 19, 1953.
Pins, Safety, and straight pins. Scovill Manufacturing Company. 580,248, Sept. 22; Serial No. 629,523, published May 19, 1953.
Pins, Safety, straight pins, hat pins, etc. Scovill Manufacturing Company. 580,247, Sept. 22; Serial No. 629,522, published June 2, 1953.
Pins, Safety, straight pins, veil pins, etc. Scovill Manufacturing Company. 580,245–6, Sept. 22; Serial Nos. 629,520–1, published June 2, 1953.

CLASS 41

Canes, Walking, parasols, and umbrellas. Miller and Rhoads, Incorporated. 580,218, Sept. 22; Serial No. 623,117, published May 19, 1953.

CLASS 42

Bedspreads. Normandie Bedspread Co. 580,371, Sept. 22; Serial No. 641,202, published June 30, 1953.
Cotton duck. Sherman Manufacturing Company. 580,204, Sept. 22; Serial No. 618,513, published June 30, 1953.
Draperies. Riverdale Manufacturing Co., Inc. 580,206, Sept. 22; Serial No. 618,816, published June 30, 1953.
Fabrics. Joseph Bancroft & Sons Co. 580,252, Sept. 22; Serial No. 629,762, published June 30, 1953.

Fabrics. Joseph Bancroft & Sons Co. 580,369, Sept. 22; Serial No. 641,163, published June 30, 1953.
Fabrics. Collins & Aikman Corporation. 580,372, Sept. 22; Serial No. 641,274, published June 30, 1953.
Fabrics, Textile. Deering, Milliken & Co., Inc. 580,282, Sept. 22; Serial No. 633,923, published June 30, 1953.
Fabrics, Textile. U. S. Fabrics, Inc. 580,374–5, Sept. 22; Serial Nos. 641,530–1, published June 30, 1953.
Fabrics, Tricot knit. Fairy Silk Mills. 444,790, Sept. 22; Serial No. 495,369, published Aug. 23, 1949.
Paper and burlap package wrappings, paper and fabric bags, crates, etc. The Lakewood Fireproof Storage Company. 223,693, Feb. 8, 1927. Republished Sept. 22.
Piece goods, Cotton, rayon, linen, and silk, and sheets, etc. Independent Wholesale Dry Goods Association, Inc. 580,388, Sept. 22; Serial No. 619,972, published June 30, 1953.
Piece goods, Silk, and rayon piece goods. David Crystal Inc. 580,263, Sept. 22; Serial No. 630,766, published June 30, 1953.
Piece goods, Woolen. Botany Mills, Inc. 580,373, Sept. 22; Serial No. 641,428, published June 30, 1953.
Table top protectors made of textile padding, etc. Space-Maid, Inc. 580,192, Sept. 22; Serial No. 615,947, published June 30, 1953.

CLASS 43

Thread, Cotton sewing, crochet and knitting yarn. Lily Mills Company. 328,673, Oct. 1, 1935. Republished Sept. 22.
Threads, Sewing. Threads, Incorporated. 308,300, renewed Nov. 28, 1953. O. G. Sept. 22.
Yarn, Crochet and knitting cotton. Lily Mills Company. 328,713, Oct. 1, 1935. Republished Sept. 22.
Yarn, Crochet and knitting cotton, and tufting yarn. Lily Mills Company. 328,674, Oct. 1, 1935. Republished Sept. 22.

CLASS 44

Apparatus to be used as a complete unit in surgery. Wappler, Inc. 580,182, Sept. 22; Serial No. 610,397, published June 23, 1953.
Sanitary belts. Beltax Corporation. 580,210, Sept. 22; Serial No. 620,298, published Apr. 7, 1953.
Tweezers for toilet use. Trix Distributors, Inc. 580,379, Sept. 22; Serial No. 641,993, published June 30, 1953.

CLASS 46

Bacon. The Rath Packing Company. 93,464, re-renewed Sept. 16, 1953. O. G. Sept. 22.
Cakes, Iced. Bren Products, Incorporated. 580,241, Sept. 22; Serial No. 628,805, published June 30, 1953.
Canned fruits and canned vegetables. Pratt-Low Preserving Company. 266,307. Jan 14, 1930. Republished Sept. 22.
Cheese spreads, Frosen. Calumet Cheese Co., Inc. 580,387, Sept. 22; Serial No. 645,287, published June 30, 1953.
Chewing gum. Wm. Wrigley, Jr. Company. 304,384, renewed July 4, 1953. O. G. Sept. 22.
Feeding products. Wilbur-Ellis Company. 239,979, Aug. 13, 1929. Republished Sept. 22.
Flour, Wheat. Capital Flour Mills, Incorporated. 308,661, Dec. 12, 1933. Republished Sept. 22.
Food products. Sun-Pacific Inc. 580,328, Sept. 22; Serial No. 638,223, published June 30, 1953.
Fruits, Frozen and canned, canned vegetables, and frozen and canned berries. Michigan Fruit Canners, Inc. 580,378, Sept. 22; Serial No. 641,735, published June 30, 1953.
Hams, skinned hams, bacon, and lard. The Rath Packing Co. 93,495, re-renewed Sept. 16, 1953. O. G. Sept. 22.
Live and dressed ducks. Farmers' Commission House, Inc. 151,754, Feb. 14, 1922. Republished Sept. 22.
Peanuts, Unshelled. W. T. Young Foods, Inc. 580,274, Sept. 22; Serial No. 632,766, published June 30, 1953.
Raisin juice. Sun Maid Raisin Growers of California. 580,351, Sept. 22; Serial No. 639,594, published June 30, 1953.
Salt, Table. Productos Salinos, Inc. 580,230, Sept. 22; Serial No. 626,340, published June 30, 1953.
Sandwich. R. Albe. 580,190, Sept. 22; Serial No. 615,739, published June 30, 1953.
Seasoning for pop corn and the like. American Pop Corn Company. 363,790, Jan. 10, 1939. Republished Sept 22.
Stabilizing compound for dough. Joe Lowe Corporation. 305,399, Aug. 15, 1933. Republished Sept. 22.
Turkeys, Dressed. Wayside Turkey Farms. 580,335, Sept. 22; Serial No. 638,679, published June 30, 1953.
Yogurt. M. Lipsky. 580,197, Sept. 22; Serial No. 617,116, published June 30, 1953.

CLASS 47

Wines. Messrs. Sucesores De Garvey, S. A. 305,966, renewed Aug. 29, 1953. O. G. Sept. 22.

CLASS 48

Beer. Horlacher Brewing Company. 415,516, Aug. 7, 1945. Republished Sept. 22.

CLASS 49

Brandy. Boulestin & Co. 307,363, renewed Oct. 24, 1953. O. G. Sept. 22.
Whiskey, Straight rye. The Sherwood Distilling Co. 92,272–3, re-renewed June 24, 1953. O. G. Sept. 22.
Whisky. W. & A. Gilbey Limited. 304,851, renewed July 18, 1953. O. G. Sept. 22.
Whisky, brandy, and other potable distilled liquors. W. & A. Gilbey Limited. 304,848, renewed July 18, 1953. O. G. Sept. 22.

CLASS 50

Automobile service progress record board. The Carlife Guaranty Company. 580,407. Sept. 22; Serial No. 633,446.
Floor coverings and mats. The Büxbaum Company. 304,561, renewed July 11, 1953. O. G. Sept. 22.
Paddle used for disciplining children. Margaret D. Bynum. 580,406, Sept. 22; Serial No. 632,714.

CLASS 51

Denatured alcohol, Dobell's solution, zinc ointment, etc. Peoples Drug Stores, Inc. 227,440, May 3, 1927. Republished Sept. 22.
Lacquer preparation. "4711" Limited. 580,399, Sept. 22; Serial No. 625,857.
Lipsticks and rouge. Elizabeth Arden, Inc. 306,693, renewed Sept. 26, 1953. O. G. Sept. 22.
Perfumed deodorant. S. P. Harris. 358,642, July 19. Republished Sept. 22.
Perfumes, Artificial and synthetical, essential oils. Usines de l'Allondon, S. A. 304,783, July 18, 1933. Republished Sept. 22.

CLASS 52

Chemical compound for removing soot. Universal Refining Products Co., Inc. 580,199, Sept. 22; Serial No. 617,684, published June 23, 1953.
Cleaner, Automobile white wall tire, auto body washing compound, bug stain remover, etc. Dickey Manufacturing Company. 580,273, Sept. 22; Serial No. 632,508, published June 23, 1953.
Cleaner, cleanser, and detergent, Soluble. The Procter & Gamble Company. 580,286, Sept. 22; Serial No. 634,345, published June 16, 1953.
Cleaner, Liquid. Stellad Products, Inc. 580,309, Sept. 22; Serial No. 636,910, published June 16, 1953.
Cleaners and film removers. The Haloid Company, 580,296, Sept. 22; Serial No. 636,289, published June 23, 1953.
Cleaning fluid M. O. Holmes. 580,242, Sept. 22; Serial No. 629,018, June 16, 1953.
Cleaning preparation, Liquid chemical. Sanavene Manufacturing Co. 580,344, Sept. 22; Serial No. 639,191, published June 23, 1953.
Cleaning solution. C. W. Smith. 580,277, Sept. 22; Serial No. 633,085, published June 23, 1953.
Cleanser, deodorant and disinfectant, Liquid. West Disinfecting Company. 580,225, Sept. 22; Serial No. 625,161, published June 23, 1953.
Cleansing liquid. R. A. Peterson. 580,261, Sept. 22; Serial No. 630,614, published June 23, 1953.
Compound in the nature of a disinfectant, bleach, cleanser and deodorant. L. Vannozzi. 580,235, Sept. 22; Serial No. 627,784, published June 9, 1953.
Compound useable as a gasoline dehydrating additive and carburetor cleaner. C. M. Wynn. 580,185, Sept. 22; Serial No. 613,391, published June 16, 1953.
Compounds for degreasing metal parts. Phillips Manufacturing Company. 580,347, Sept. 22; Serial No. 639,389, published June 23, 1953.
Degreasing compound. R. M. Hollingshead Corporation. 580,223, Sept. 22; Serial No. 624,547, published June 9, 1953.
Denatured alcohol, Dobell's solution, zinc ointment, etc. Peoples Drug Stores, Inc. 227,440, May 3, 1927. Republished Sept. 22.
Detergent. Rigo Manufacturing Co., Inc. 580,289, Sept. 22; Serial No. 635,097, published June 23, 1953.
Detergents. Petroleum Solvents Corporation. 580,212, Sept. 22; Serial No. 622,405, published Dec. 16, 1952.
Detergents, soaps and scouring agents. Arkansas Company Inc. 580,232, Sept. 22; Serial No. 627,663, published June 16, 1953.
Dry-cleaning preparations. Adco, Inc. 580,205, Sept. 22; Serial No. 618,720, published June 16, 1953.
Emulsion product for washing machined metal parts. Finger Lakes Chemical Company, Inc. 580,251, Sept. 22; Serial No. 629,605, published June 9, 1953.
Medical preparation—namely, a powder useful as a blood solvent and detergent. Physicians and Hospitals Supply Company, Inc. 580,377, Sept. 22; Serial No. 641,566, published June 23, 1953.
Rust and stain remover. L. C. Miller, Sr. 580,208, Sept. 22; Serial No. 619,841, published June 23, 1953.
Rust removing preparation. F. A. Best. 580,285, Sept. 22; Serial No. 634,447, published June 23, 1953.
Shampoo. Potter Drug & Chemical Corporation. 580,172, Sept. 22; Serial No. 604,545, published June 9 1953.
Shampoos. Rayette, Inc. 580,329, Sept. 22; Serial No. 638,271, published June 23, 1953.

Soap. Packers Tar Soap, Inc. 580,271, Sept. 22; Serial No. 632,320, published June 23, 1953.

Soap, Germicidal. The Pharma-Craft Corporation. 580,317, Sept. 22; Serial No. 637,528, published June 16, 1953.

Soap, Saddle. Carr & Day & Martin Limited. 580,202, Sept. 22; Serial No. 618,228, published June 16, 1953.

Soot removing chemical preparation. Elraco Engineering Company. 580,237, Sept. 22; Serial No. 630,401, published June 23, 1953.

Sweeping compound. International Sisal Company. 580,266, Sept. 22; Serial No. 631,620, published June 23, 1953.

CLASS 101

Bookkeeping service. M. L. Collier & Co. 580,411, Sept. 22; Serial No. 639,809.

CLASS 107

Entertainment service. M. Forbes. 580,410, Sept. 22; Serial No. 623,457.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 22D DAY OF SEPTEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Eastman Kodak Company, assignee: *See*—
Hunt, Clayton E., Jr.

Hunt, Clayton E., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Apparatus for synthesizing facsimile signals from coded signals. Re. 23,713, Sept. 22.

LIST OF PLANT PATENTEES

Byrum, Roy L., assignor to Joseph H. Hill Company, Richmond, Ind. Rose plant. 1,217, Sept. 22.

Hill, Joseph H., Company, assignee: *See*—
Byrum, Roy L.

LIST OF DESIGN PATENTEES

Ackerman, Jackie, assignor to Guild Radio and Television Company, Los Angeles, Calif. Radio cabinet or similar article. 170,439, Sept. 22.

Alfa Romeo Società per Azioni, assignee: *See*—
Colombo, Gioacchino.

Alsup, Winfield W., assignor to The J. B. Beaird Company, Inc., Shreveport, La. Portable fluid dispensing unit. 170,440, Sept. 22.

Aluminum Company of America, assignee: *See*—
Guild, Lurelle.

Army, United States of America as represented by the Secretary of the, assignee: *See*—
Du Bois, Arthur E., and Will.

Ball, Percy B., North Attleboro, Mass., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Spoon or similar article. 170,441, Sept. 22.

Beaird, J. B., Company, Inc., The, assignee: *See*—
Alsup, Winfield W.

Bell, Louis, Roxbury, Mass. Ear ornament or similar article. 170,442, Sept. 22.

Bertolossi, Emil, Chicago, Ill. Base for table lamps. 170,443, Sept. 22.

Bertolossi, Emil, Chicago, Ill. Base for table lamps. 170,444, Sept. 22.

Bertolossi, Emil, Chicago, Ill. Base for table lamps. 170,445, Sept. 22.

Blanchette, Hilaire, assignor to La Compagnie J. A. Gosselin Limitee, Drummondville, Quebec, Canada. Power butter churn. 170,446, Sept. 22.

Bright Star Battery Company, assignee: *See*—
Schnur, Martin.

Caird, Clarissa E., assignee: *See*—
Caird, Peter.

Caird, Peter, assignor to C. E. Caird, Santa Rosa, Calif. Fire hose nozzle unit. 170,447, Sept. 22.

Colombo, Gioacchino, assignor to Alfa Romeo Società per Azioni, Milan, Italy. Automobile. 170,448, Sept. 22.

Coro, Inc., assignee: *See*—
Katz, Adolph.

Cotton, Collie J. and D. L., Ansted, W. Va. Record sheet for social security or the like data. 170,449, Sept. 22.

Cotton, Dorothy L.: *See*—
Cotton, Collie J. and D. L.

Craig, David C., Los Angeles, Calif. Combination air purifier and telephone set base. 170,450, Sept. 22.

Dolly Hosiery Mills, Inc., assignee: *See*—
Verreault, John F.

Drell, Leonard B., Glencoe, Ill. Spray head for aerosol bombs. 170,451, Sept. 22.

Drell, Leonard B., Glencoe, Ill. Spray head for aerosol bombs and the like. 170,452, Sept. 22.

Du Bois, Arthur E., and R. Will, Washington, D. C., assignors to the United States of America as represented by the Secretary of the Army. Shoulder cord. 170,453, Sept. 22.

Dujoncquoy, Louis L., Saint-Mande, Paris, assignor to Sauze, S. A., Colombes, France. Combined bottle and holder therefor. 170,454, Sept. 22.

Eastman Kodak Company, assignee: *See*—
White, Earl E., and Smith.

Fram Corporation, assignee: *See*—
Monsarrat, Nicholas.

Gavette, Richard C., Bristol, assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Spoon or similar article. 170,455, Sept. 22.

Gershen, Irvin J., Hillside, N. J., assignor to Industrial Tape Corporation. Tape cutter. 170,456, Sept. 22.

Golden, Harry, New York, N. Y. Combination handlebar grip and bell for bicycles. 170,457, Sept. 22.

Guild, Lurelle, Darien, Conn., assignor to Aluminum Company of America, Pittsburgh, Pa. Wall hook. 170,458, Sept. 22.

Guild Radio and Television Company, assignee: *See*—
Ackerman, Jackie.

Hamman, Vernon T., Springfield, Ohio. Bottle. 170,459, Sept. 22.

Hauser, Alfred K., Chicago, Ill. Combination ice chopper and scraper for windshields and the like. 170,460, Sept. 22.

Heinsel, Werner A., Greenwood, Del. Rotatable Christmas ornament. 170,461, Sept. 22.

Hennessy, Robert E., Summit, N. J., assignor to National Distillers Products Corporation, New York, N. Y. Decanter. 170,462, Sept. 22.

Industrial Tape Corporation, assignee: *See*—
Gershen, Irvin J.

Jacoby-Bender, Inc., assignee: *See*—
Rodrigues, Emil.

Jenkins, Howard M., Jr., assignor to Van Auken, Inc., Detroit, Mich. Wheel trim. 170,463, Sept. 22.

Jenkins, Howard M., Jr., assignor to Van Auken, Inc., Detroit, Mich. Wheel cover. 170,464, Sept. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 170,465, Sept. 22.

Keesling Thomas B., Los Gatos, Calif. Reciprocating tool attachment for a power tool unit. 170,466, Sept. 22.

Kremin, Fred J., Richmond, Calif. Combined bookmarker and line guide. 170,467, Sept. 22.

La Compagnie J. A. Gosselin Limitee, assignee: *See*—
Blanchette, Hilaire.

Le Ber, Paul, St. Hilaire, Quebec, Canada. Soldering iron brush or similar article. 170,468, Sept. 22.

Lewis, Robert C., Westbury, assignor to United Merchants and Manufacturers, Inc., New York, N. Y. Plastic fabric or the like. 170,469, Sept. 22.

Lundy, Arthur J., assignor to Short Brothers & Harland Limited, Newtownards, Northern Ireland. Casing for a wringer. 170,470, Sept. 22.

Meagher, Alice L., Goodyear, Conn. Convertible chair and step stool unit. 170,471, Sept. 22.

Monsarrat, Nicholas, Seekonk, Mass., assignor to Fram Corporation. Water conditioner and filter unit. 170,472, Sept. 22.

Motor Wheel Corporation, assignee: *See*—
Wilson, Lawrence H.

National Distillers Products Corporation, assignee: *See*—
Hennessy, Robert E.

Nelson, Carl A., Whittier, Calif. Clotheshorse. 170,473, Sept. 22.

Noyes, Marion A., West Newbury, assignor to Towle Manufacturing Company, Newburyport, Mass. Fork or the like. 170,474, Sept. 22.

Petry, John, New York, assignor to Raylite Electric Corp., Bronx, N. Y. Illuminable Christmas plaque. 170,475, Sept. 22.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Bracelet or the like. 170,476, Sept. 22.
Pichel, Irving, New York, N. Y. Handbag or similar article. 170,477, Sept. 22.
Picker X-Ray Corporation Waite Manufacturing Division, Inc., assignee: *See*—
Stava, Robert J.
Raylite Electric Corp., assignee: *See*—
Petry, John.
Rodriguez, Emil, assignor to Jacoby-Bender, Inc., New York, N. Y. Expansible link chain for a bracelet or the like. 170,478, Sept. 22.
Rose, Ben, Highland Park, Ill. Textile fabric or similar article. 170,479, Sept. 22.
Sacks, Irving, Brooklyn, N. Y. Combined food warmer and bun toaster. 170,480, Sept. 22.
Sause, S. A., assignee: *See*—
Dujoncquoy, Louis L.
Schnur, Martin, Newark, assignor to Bright Star Battery Company, Clifton, N. J. Flashlight. 170,481, Sept. 22.
Short Brothers & Harland Limited, assignee: *See*—
Lundy, Arthur J.
Sinko, John, Oak Park, Ill., assignor to Sinko Mfg. & Tool Co. Wind deflector for an automobile. 170,482, Sept. 22.
Sinko Mfg. & Tool Co., assignee: *See*—
Sinko, John.
Smith, George J.: *See*—
White, Earl E., and Smith.
Stava, Robert J., assignor to Picker X-Ray Corporation Waite Manufacturing Division, Inc., Cleveland, Ohio. Ceiling mounted hanger for X-ray tubes. 170,483, Sept. 22.
Taylor, William F., Philadelphia, Pa. Tea bag strainer. 170,484, Sept. 22.
Towle Manufacturing Company, assignee: *See*—
Noyes, Marion A.
Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.
United Merchants and Manufacturers, Inc., assignee: *See*—
Lewis, Robert C.
Van Auken, Inc., assignee: *See*—
Jenkins, Howard M., Jr.
Verreault, John F., assignor to Dolly Hosiery Mills, Inc., Valdese, N. C. Sock or similar article. 170,485, Sept. 22.
Wallace, R., & Sons Manufacturing Company, assignee: *See*—
Ball, Percy B.
Gavette, Richard C.
White, Earl E., and G. J. Smith, assignors to Eastman Kodak Company, Rochester, N. Y. Document copying machine. 170,486, Sept. 22.
Whitman, Lucilla de V., New York, N. Y. Necktie. 170,487, Sept. 22.
Will, Elizabeth: *See*—
Du Bois, Arthur E., and Will.
Wilson, Lawrence H., Detroit, assignor to Motor Wheel Corporation, Lansing, Mich. Cabinet for a heater or the like. 170,488, Sept. 22.
Wright, Ernest N., Belmont, Mass. Set of chessmen. 170,489, Sept. 22.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 22D DAY OF SEPTEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aagaard, Fridtjof, Rahway, N. J., and H. G. Weiss, Marietta, Ohio, assignors to American Cyanamid Company, New York, N. Y. Device for handling of wet sticky pastes. 2,652,929, Sept. 22.
Accurate Tool and Engineering Company, assignee: *See*—
Wright, Harry.
Ackerman, Joseph L., Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company. Separation process. 2,653,147, Sept. 22.
Acme Steel & Malleable Iron Works, assignee: *See*—
Crone, Alfred F.
Adamec, Gilbert: *See*—
Labriola, Nicholas C., and Adamec.
Adams, Cecil E., assignor to The Denison Engineering Company, Columbus, Ohio. Hydraulic pressure booster. 2,652,780, Sept. 22.
Adams, Jonathan A., New Market, Iowa. Basket yard rake. 2,652,680, Sept. 22.
Adamson, Frank M.: *See*—
Cadwell, Clarence J., and Adamson.
Adler, Leon, St. Louis, Mo. Making a miniature packet. 2,653,120, Sept. 22.
Air-Maze Corporation, assignee: *See*—
Walton, George M., and Brown.
Aktiebolaget Max Sievert, assignee: *See*—
Ericsson, Karl E., and Geber.
Aktiebolaget Urfabriken, assignee: *See*—
Murvall, Åke E.
Aktiengesellschaft vormals B. Siegfried, assignee: *See*—
Ursprung, Rudolf A.
Aldrich, George R., Paramount, and K. R. Bragg, Manhattan Beach, assignors to Northrop Aircraft, Inc., Hawthorne, Calif. Demountable duct seal. 2,653,042, Sept. 22.
Alkydol Laboratories, Inc., assignee: *See*—
Cody, William P., and Clark.
Allan, James A., Springfield, Vt., and F. C. Savage, Columbia, Conn., assignors to Jones & Lamson Machine Company, Springfield, Vt. Operator-controlled grinding machine with optical comparator. 2,652,664, Sept. 22.
Allen, Albert, Sharon, assignor to The Foxboro Company, Foxboro, Mass. Range shifting instrument. 2,653,308, Sept. 22.
Allen, George W., Indianapolis, Ind., and V. N. Tramontini, Los Angeles, Calif., assignors to Stewart-Warner Corporation, Chicago, Ill. Burner and igniter structure. 2,652,888, Sept. 22.
Allen, Lena O., Marion, Ind. Foundation garment. 2,652,566, Sept. 22.
Allen, Richard C., Carthage, Mo., and J. Millman, Brookline, Mass., assignors to the United States of America as represented by the Secretary of War. Gain measuring device. 2,653,310, Sept. 22.
Allen, Robert K., Wesleyville, Pa., assignor to General Electric Company. Electrical conductor lead for commutators. 2,653,258, Sept. 22.
Allenby, Owen C. W., McMasterville, Quebec, Canada, and J. C. MacKenzie, Winchester, Mass., assignors to Canadian Industries Limited, Montreal, Quebec, Canada. Textile finishing compositions. 2,653,140, Sept. 22.
Allied Chemical & Dye Corporation, assignee: *See*—
Spatz, Sydney M.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Watts, Leon A.
Allison, Jim E.: *See*—
Carman, Charles R., and Allison.
Allmanna Svenska Elektriska Aktiebolaget, assignee: *See*—
Forwald, Haakon.
Jansö, Arvid, and Sand.
Alvord, Ralph E., Fairfield, Iowa. Adjustable garment hanger. 2,652,958, Sept. 22.
American Blower Corporation, assignee: *See*—
Nelden, Richard M.
American Cyanamid Company, assignee: *See*—
Aagaard, Fridtjof, and Weiss.
American Defibrator Inc., assignee: *See*—
Messing, Hjalmar S.
American Desk Manufacturing Co., assignee: *See*—
Rowe, Marion H.
American Optical Company, assignee: *See*—
Robinson, James E.
American Steel Foundries, assignee: *See*—
Kowalik, John J.
American Totalisator Company, Inc., assignee: *See*—
Levy, Oscar C.
American Viscose Corporation, assignee: *See*—
Jones, Michael G.
Russell, Arthur O., Jones, and Watts.
Wielicki, Edward A.
Amman, Giuseppe, assignor to Fratelli Borletti Societa per Azioni, Milan, Italy. Mechanism for disconnecting and reinserting the lifting movement of the cloth feed claw in sewing machines. 2,652,797, Sept. 22.
Anderson, Harry N., Orleans, Vt. Folding table leg lock. 2,653,066, Sept. 22.
Anderson, John F., Seattle, Wash. Headset for supporting a telephone. 2,653,193, Sept. 22.
Anderson, Robert L.: *See*—
Walley, Omar C., and Anderson.
Andrews, Ralph, Syracuse, N. Y. Rotator drum truck. 2,653,015, Sept. 22.
Andrus, Orrin E., assignor to A. O. Smith Corporation, Milwaukee, Wis. Manufacturing plated articles. 2,653,211, Sept. 22.
Angelo, Nicholas J., Evergreen Park, Ill., assignor to W. J. and W. G. Podbielniak. Centrifugal countercurrent exchange device. 2,652,975, Sept. 22.
Anlo Inc., assignee: *See*—
Kurt, Anton.
Anner, Georg: *See*—
Miescher, Karl, and Anner.
Appleton, Jay C., Minneapolis, Minn. Piston. 2,653,065, Sept. 22.
Archer, Madison T., assignee: *See*—
Lofton, Jasper W., and Archer.
Armour Research Foundation of Illinois Institute of Technology, assignee: *See*—
Camras, Marvin.
Armstrong, Alice E., assignor, by mesne assignments, to Rhea Manufacturing Company, Milwaukee, Wis. Covering for toilet flush tanks. 2,652,874, Sept. 22.
Armstrong, George C., Buffalo, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Thermostatic snap disk relay. 2,653,051, Sept. 22.
Armstrong, Westrop, Glen Ellyn, Ill. Antiinertia mechanism for sliding doors. 2,653,022, Sept. 22.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Kumpfer, Beverly D.
Messerly, George H., and Campbell.
Siglin, Pierce W.
Arndt, John P., Oak Park, J. Hruby, Deerfield, and J. J. Schulze, Prospect Heights, Ill., assignors to Charles Bruning Company, Inc., New York, N. Y. Resilient bearing mounting. 2,653,063, Sept. 22.
Arnio, George E., Oneonta, N. Y. Tractor hand brake. 2,652,905, Sept. 22.
Arnold, Claude D., Iraan, Tex. Knife sharpener. 2,652,667, Sept. 22.
Arnold, George B., Glenham, H. V. Hess and W. E. Skelton, Beacon, and W. V. Overbaugh, Fishkill, assignors to The Texas Company, New York, N. Y. Fractional separation of oil with a complexing agent such as urea in the presence of a solvent liquid. 2,653,122, Sept. 22.
Arrowwood, Hubert L., Tulsa, Okla., assignor to Hinderliter Tool Company Division H. K. Porter Company, Inc. Sealing device for well heads. 2,652,895, Sept. 22.
Artisan Metal Products, Inc., assignee: *See*—
Childs, Kenneth L.
Ashcraft, William N., Ardmore, Okla. Rearview window protector. 2,653,050, Sept. 22.
Ashley, Hubert E., Dallas, Tex. One-way disk plow. 2,652,762, Sept. 22.
Astatic Corporation, The, assignee: *See*—
Palo, Maurice, and Dvorsky.
Aston, Herbert P., Dallas, Tex., assignor to Sun Oil Company, Philadelphia, Pa. Apparatus for orienting tools. 2,653,007, Sept. 22.
Atlas Mineral Products Company of Pennsylvania, The, assignee: *See*—
Seymour, Raymond B.
Auten, Robert W.: *See*—
Hurwitz, Melvin D., and Auten.
Avco Manufacturing Corporation, assignee: *See*—
Bowen, Myron W.
Ayrton, Wm., & Company, Limited, assignee: *See*—
Osborne, Frank.
B. E. V. I. Bulloneria e Viteria Italiana, Soc. a resp. lim., assignee: *See*—
Chiaberta, Serafino.

Babcock, Horace W., Pasadena, Calif., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Cathode-ray deflection circuit. 2,653,274, Sept. 22.

Bacon, Clinton J., Los Angeles, and S. J. Kent, Van Nuys, assignors to Nu-Matic Nailer, Inc., Los Angeles, Calif. Nail-driving mechanism. 2,652,564, Sept. 22.

Baer, John M., Chicago, Ill., assignor to Guardite Corporation. Puffed organic materials and making same. 2,653,093, Sept. 22.

Baer, John M., Chicago, Ill., assignor to Guardite Corporation. Puffed farina and making same. 2,653,094, Sept. 22.

Baer, John M., Chicago, Ill., assignor to Guardite Corporation. Puffed oats and making same. 2,653,095, Sept. 22.

Baer, John M., Chicago, Ill., assignor to Guardite Corporation. Puffed wheat and making same. 2,653,096, Sept. 22.

Baer, John M., Chicago, Ill., assignor to Guardite Corporation. Puffed corn and making same. 2,653,097, Sept. 22.

Baer, John M., Chicago, Ill., assignor, by mesne assignments to Coldset Foods, Inc. Selectively puffing granular material and the resulting product. 2,653,098, Sept. 22.

Bagier, Marzia W., Hollywood, Calif. Necktie holder. 2,652,588, Sept. 22.

Bahn, Clarence E., Duluth, Minn. Fishing rod tip. 2,652,654, Sept. 22.

Bailey, George B.: *See*—
Richardson, Robert D., and Bailey.

Bainbridge, Kenneth T., Santa Fe, N. Mex., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Dual frequency antenna. 2,653,238, Sept. 22.

Baldwin, John H., Joplin, Mo. Primary battery and making the same. 2,653,179, Sept. 22.

Ballard, Robert J., West Newton, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Vapor electric device. 2,653,266, Sept. 22.

Ballard, Seaver A., Orinda, R. C. Morris, Berkeley, and J. L. Van Winkle, San Lorenzo, assignors to Shell Development Company, Emeryville, Calif. Sulfur and phosphorus-containing esters. 2,653,161, Sept. 22.

Ballastran Corporation, assignee: *See*—
Kiltie, Ordean.

Ballman, Edwin C., University City, assignor to Ballman Engineering Company, St. Louis, Mo. Resilient mounting for electric motors. 2,652,997, Sept. 22.

Ballman, Edwin C., assignor to Ballman Engineering Company, Clayton, Mo. Apparatus for riveting laminated structures for electrical apparatus. 2,653,208, Sept. 22.

Ballman Engineering Company, assignee: *See*—
Ballman, Edwin C.

Banigan, Thomas F., Kenmore, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Sizing of ethylene polymer structures. 2,653,113, Sept. 22.

Barash, Robert F., Arlington, Va. Game apparatus for simulating a roller derby. 2,653,027, Sept. 22.

Barclay, William L., Jr.: *See*—
Purifoy, George R., and Barclay.

Barker, Smith and Company, assignee: *See*—
Galluppi, Bernardino F.

Barkey, Joseph S., Brooklyn, N. Y. Marionette. 2,652,658, Sept. 22.

Bark-Off Corporation, The, assignee: *See*—
Boswell, John R.

Barone, M. E., assignee: *See*—
Butler, Charles W.

Barricini, Jack, Scarsdale, N. Y. Securing device for wallets. 2,652,873, Sept. 22.

Barsness, John G., Black Earth, Wis. Folding armchair. 2,652,884, Sept. 22.

Barzaghi, Angelo, Milan, Italy. Loom. 2,652,860, Sept. 22.

Baudry, René A., Pittsburgh, and P. R. Heller, Irwin, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Separate end-turn rotor-ventilation. 2,653,255, Sept. 22.

Bays, Carl A., Urbana, Ill. Electromagnetic wave transmission system. 2,653,220, Sept. 22.

Beach & Shore, Inc., assignee: *See*—
Hayden, David H.

Beatty, Guy M., Bakersfield, Calif. Cleanout gate valve. 2,652,946, Sept. 22.

Béché, Hans P., Huckeswagen, Rhineland, Germany. Power hammer for swaging steel. 2,652,811, Sept. 22.

Beck, Ralph F. *See*—
Herndon, Walter B., Beck, and Tuschak.

Beckberger, La Vern H., East Chicago, Ind., assignor to Sinclair Refining Company, New York, N. Y. Production of aromatics from petroleum. 2,653,176, Sept. 22.

Bécker, Gottfried, Buderich, near Dusseldorf, and F. Steinberg, Dusseldorf-Eller, assignors to Deutsche Edelstahlwerke, Krefeld, Germany. Providing metallic articles with a protective work surface layer. 2,653,210, Sept. 22.

Bell & Howell Company, assignee: *See*—
Goldberg, Emanuel.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Brown, John T. L., and Ellwood.
Coyne, Howard L., and Mesch.
Langabeer, Harvey T.
Ostendorf, Bernard, Jr.

Bemis Bro. Bag Company, assignee: *See*—
Davis, Harold C.

Bendix Aviation Corporation, assignee: *See*—
Deardorff, Clinton E., and Gunn.
McLinden, James E., Jr.
Murphy, Donald F.
Wood, Louvan E.

Bendix-Westinghouse Automotive Air Brake Company, assignee: *See*—
Fitch, Ellery R.

Bergerson, Charles W.: *See*—
Rauh, Elmer M., and Bergerson.

Bernardo, Vicente S. D., Manila, Republic of the Philippines. Clutch assembly. 2,652,912, Sept. 22.

Beste, George W., and H. M. Tanner, Baton Rouge, La., and H. Shapiro, Detroit, Mich., assignors to Ethyl Corporation, New York, N. Y. Manufacture of tetraethyllead. 2,653,159, Sept. 22.

Betsold, John E.: *See*—
Carlson, Byron, and Betsold.

Bituminous Coal Research, Inc., assignee: *See*—
Yellott, John I.

Bjering, Olav, Toledo, Ohio, assignor to Owens-Illinois Glass Company. Method and apparatus for sealing containers. 2,652,964, Sept. 22.

Blaker, Robert H., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Dyeing of polyacrylonitrile fibers. 2,653,074, Sept. 22.

Blanchard, Bernard E.: *See*—
Brolin, Anders H., Kamholtz, and Blanchard.

Blears, Jack, Davenham, and J. H. Leck, Stretford, England, assignors to General Electric Company. Apparatus for detecting leaks in vacuum systems. 2,652,716, Sept. 22.

Blue Channel Corporation, assignee: *See*—
Harris, Sterling G.

Blum, Leopold: *See*—
Goldman, Jerome L., and Blum.

Blumenthal, Warren B., Niagara Falls, assignor to National Lead Company, New York, N. Y. Fused reduced titania-zirconia product and method. 2,653,107, Sept. 22.

Boehringer, Albert, assignee: *See*—
Scheuing, Georg, and Vogelbach.

Boehringer, C. H., Sohn, assignee: *See*—
Scheuing, Georg, and Vogelbach.

Boehringer, Ernst, assignee: *See*—
Scheuing, Georg, and Vogelbach.

Boehringer, Ilse: *See*—
Scheuing, Georg, and Vogelbach.

Bohnsack, John A.: *See*—
Hopeman, Albert A., Jr., and Bohnsack.

Bolding, Hubert V., Jeffersonville, Ind., assignor to The Bradley & Gilbert Company, Louisville, Ky. Bottle carrier. 2,652,968, Sept. 22.

Bomac Laboratories Inc., assignee: *See*—
Prescott, Thomas G.

Bonniksen, Cyril W., Oxford, England. Manufacture of alginates. 2,653,106, Sept. 22.

Bonomo, Michael F.: *See*—
Isaacs, Jacob G., and Bonomo.

Boothroyd, Harold W., Beverly, and A. J. Zink, Jr., Andover, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Waxed thread sewing machine. 2,652,794, Sept. 22.

Borden, Joseph H., and W. A. Nikazy, assignors to Haughton Elevator Company, Toledo, Ohio. Automatic elevator control. 2,652,903, Sept. 22.

Bornemann, William, Rochester, N. Y., assignor, by mesne assignments, to Polaroid Corporation, Cambridge, Mass. Apparatus and process for treating light-sensitive materials with liquid. 2,652,759, Sept. 22.

Bostrom-Brady Manufacturing Company, assignee: *See*—
Vickery, Robert K.

Boswell, John R., assignor to The Bark-Off Corporation, Mobile, Ala. Portable log debarker for sawmills. 2,652,867, Sept. 22.

Botley, Richard M., and G. Guigas, assignors to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Apparatus for dicing decored cylinders of pineapple. 2,652,871, Sept. 22.

Bowen, Frank W., Toledo, Ohio, assignor to Sun Oil Company, Philadelphia, Pa. Elevation of granular solids. 2,653,058, Sept. 22.

Bowen, Myron W., Niles, Mich., assignor, by mesne assignments, to Avco Manufacturing Corporation, New York, N. Y. Washer and squeezer extractor. 2,652,709, Sept. 22.

Bowman, John M., assignor to Philco Corporation, Philadelphia, Pa. Control device. 2,653,262, Sept. 22.

Bowman, Paul E., Columbus, Kans. Conveyer belt cleaner. 2,652,920, Sept. 22.

Bracci, Dante, Franklin, Mass. Apparatus for testing the fuel consumption of motor vehicles. 2,652,719, Sept. 22.

Braden, John F.: *See*—
Sardeson, Robert, Braden, and Lee.

Bradley & Gilbert Company, The, assignee: *See*—
Bolding, Hubert V.

Bragg, Kenneth R.: *See*—
Aldrich, George R., and Bragg.

Braithwaite, Isaac, & Son Engineers Limited, assignee: *See*—
Howlett, Edward J.

Brecomin (England) Limited, assignee: *See*—
Godeck, John E.

Brennan, Joseph B., Cleveland, Ohio. Plates adapted for use in electrolytic devices. 2,653,119, Sept. 22.

Brenner, Abner, Chevy Chase, Md., and P. Burkhead, Bethlehem, Pa., assignors to the United States of America as represented by the Secretary of War. Methods of and baths for electrodepositing cobalt or cobalt-molybdenum alloys. 2,653,127, Sept. 22.

Brenner, Abner, Chevy Chase, Md., P. S. Burkhead, Bethlehem, Pa., and C. A. Sentel, Herndon, Va., assignors to the United States of America as represented by the Secretary of War. Method of and bath for electrodepositing tungsten alloys. 2,653,128, Sept. 22.

Bridevaux, Georges, assignor to Tavannes Watch Co. S. A., Tavannes, Switzerland. Lever wound timepiece. 2,652,684, Sept. 22.

British Insulated Callender's Cables Limited, assignee: *See*—
Ripley, Stanley W.

British Resin Products Limited, assignee: *See*—
Sullivan, Robert, Glendinning, and Read.

Brolin, Anders H., H. A. W. Kamholtz, and B. E. Blanchard, assignors to Northwest Engineering Corporation, Green Bay, Wis. Excavating dipper. 2,652,940, Sept. 22.

Brooke, Jesse M., Old Ocean, Tex., assignor to Phillips Petroleum Company. Recovery of heavy metals. 2,653,089, Sept. 22.

Brown, Cicero C., assignee: *See*—
Potts, Ernest L.

Brown, Cicero C., and F. L. Scott, Jr., Houston, Tex., said Scott assignor to said Brown. Hold-down slip assembly for well packers. 2,652,894, Sept. 22.

Brown, John T. L., Short Hills, N. J., and W. B. Ellwood, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Relay. 2,653,199, Sept. 22.

Brown, Richard E.: *See*—
Walton, George M., and Brown.

Brown and Williamson Tobacco Corporation, assignee: *See*—
McKinley, Billy S.

Bruning, Charles, Company, Inc., assignee: *See*—
Arndt, John P., Hruby, and Schulze.

Brutsch & Co., assignee: *See*—
Scheiwiller, Karl.

Bukolt, Victor J., Stevens Point, Wis. Slidable connection for the drop sides of cribs. 2,652,575, Sept. 22.

Bulloneria e Viteria Italiana B. E. V. I., assignee: *See*—
Chiaberta, Serafino.

Burch, Marbie E., Hayfork, assignor of one-half to F. C. Shaklee, Sr., Oakland, Calif. Tractor mounted grab device for hay and the like. 2,652,939, Sept. 22.

Burger, Martin: *See*—
Fabey, Richard J., and Burger.

Burgess-Manning Company, assignee: *See*—
Emery, Neville R., and Robards.

Burke, Joseph R., Seattle, Wash. Composite panel. 2,652,600, Sept. 22.

Burkhead, Polly: *See*—
Brenner, Abner, and Burkhead.

Burkhead, Polly S.: *See*—
Brenner, Abner, Burkhead, and Sentel.

Burns, Leslie L., Jr.: *See*—
Luck, David G. C., and Burns.

Burroughs Corporation, assignee: *See*—
Dedek, Frank G.

Bush Testing, Inc., assignee: *See*—
Bush, Walter M., and Collett.

Bush, Walter M., Bellflower, and C. H. Collett, Burbank, Calif., assignors to Bush Testing, Inc. Method and apparatus for testing tubing. 2,652,717, Sept. 22.

Butler, Charles W., assignor of one-half to M. E. Barone, Arcadia, Calif. Trailer hitch. 2,653,031, Sept. 22.

Cadwell, Clarence J., Carpenteria, and F. M. Adamson, Los Angeles, assignors to The Cadwell Corporation, Beverly Hills, Calif. Tripod structure. 2,653,000, Sept. 22.

Cadwell Corporation, The, assignee: *See*—
Cadwell, Clarence J., and Adamson.

California Research Corporation, assignee: *See*—
Kemp, Jacob D., and Zeh.
Levine, Irving E.

Campbell, Arthur W.: *See*—
Messerly, George H., and Campbell.

Campbell, Oliver F., Whiting, Ind., assignor to Sinclair Refining Company, New York, N. Y. Treatment of pitch. 2,652,594, Sept. 22.

Camras, Marvin, assignor to Armur Research Foundation of Illinois Institute of Technology, Chicago, Ill. Electromagnetic transducer head. 2,653,189, Sept. 22.

Canadian Industries Limited, assignee: *See*—
Allenby, Owen C. W., and MacKenzie.

Carbonic Dispenser, Inc., assignee: *See*—
Welty, Frank and R. D.
Welty, Frank and R.

Card, Calvin G., Waukena, Calif. Apparatus for preparing seedbeds. 2,652,760, Sept. 22.

Carlson, Boyd N., El Monte, Calif. Door closer. 2,653,043, Sept. 22.

Carlson, Byron, Minneapolis, Minn., and J. E. Betsold, Huntington Park, Calif., assignors to Scott-Atwater Manufacturing Co. Inc., Minneapolis, Minn. Water inlet structure for outboard motors. 2,652,802, Sept. 22.

Carlson, Carl O., Stockholm, Sweden. Apparatus for measuring pressures and pressure variations. 2,653,295, Sept. 22.

Carlson, Folke K., Mount Kisco, N. Y., assignor to General Precision Laboratory Incorporated. Locking arbor. 2,652,738, Sept. 22.

Carman, Charles R., Park Forest, and J. E. Allison, Elmhurst, Ill., assignors to Guardite Corporation. Quick-cooking cereal and making same. 2,653,099, Sept. 22.

Carman, Charles R., Park Forest, and J. E. Allison, Elmhurst, Ill., assignors to Guardite Corporation. Precooked rice. 2,653,100, Sept. 22.

Carman, Charles R., Park Forest, and J. E. Allison, Elmhurst, Ill., assignors to Guardite Corporation. Quick-cooking farina and making same. 2,653,101, Sept. 22.

Carman, Charles R., Park Forest, and J. E. Allison, Elmhurst, Ill., assignors to Guardite Corporation. Quick-cooking wheat and making same. 2,653,102, Sept. 22.

Carman, Charles R., Park Forest, and J. E. Allison, Elmhurst, Ill., assignors to Guardite Corporation. Quick-cooking hominy and making same. 2,653,103, Sept. 22.

Carman, Charles R., Park Forest, Ill., assignor to Guardite Corporation. Puffed corn product and making the same. 2,653,104, Sept. 22.

Carnahan, Chalon W., Albuquerque, N. Mex., assignor to Zenith Radio Corporation. Suppressed carrier radio communication system. 2,653,221, Sept. 22.

Carrier, John A., Lexington, Mass., assignor to Sanitary Products Corporation, Taneytown, Md. Wrapping and sealing machine for tampons. 2,652,670, Sept. 22.

Carter Carburetor Corporation, assignee: *See*—
Gilda, Edward T.

Carter, John C. G., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical apparatus. 2,653,233, Sept. 22.

Carter, Sidney T., Worcester, Mass., assignor, by mesne assignments, to Geo. J. Meyer Manufacturing Co., Cudahy, Wis. Pneumatic transfer pad for labeling machines. 2,652,941, Sept. 22.

Casas Robert, Ramon, and Jean Court, Geneva, assignors to Mefina S. A., Binningen, Switzerland. Zigzag sewing machine. 2,652,795, Sept. 22.

Casco Products Corporation, assignee: *See*—
Younhouse, Joseph.

Case, J C Lynn, N. C. Mechanically actuated stop motion for looms. 2,652,861, Sept. 22.

Case, J. I., Company, assignee: *See*—
Krause, Norman R.
Krause, Norman R., and Heth.

Castroviejo, Ramon, New York, N. Y. Needle holder. 2,652,852, Sept. 22.

Catlin, Robert T., Stratford, assignor to Remington Arms Company, Inc., Bridgeport, Conn. Ammunition. 2,652,776, Sept. 22.

Catlin, Willard E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Copolymers and lubricants containing the same. 2,653,133, Sept. 22.

Cave, John C., Jr., Upper Darby, Pa. Ironing board. 2,652,646, Sept. 22.

Cee-Bee Chemical Co., Inc., assignee: *See*—
Whitcomb, Keith R., and Finch.

Celanese Corporation of America, assignee: *See*—
Roughsedge, Robert H., and Lustig.

Century Machine Company, The, assignee: *See*—
Hein, August E., and Klausing.

Cessna Aircraft Company, The, assignee: *See*—
Seibel, Charles M.

Champion, Charles Mervin: *See*—
Sampson, James W., and Champion.

Chance, Britton, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Arrangement for providing corrections in ground-position-indicating systems. 2,652,979, Sept. 22.

Charbonneau, Allan P., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Making electric heaters. 2,652,622, Sept. 22.

Chase-Shawmut Company, The, assignee: *See*—
Kozacka, Frederick J.

Chatham Electronics Corporation, assignee: *See*
Watrous, Ward W., Jr.

Chemstrand Corporation, The, assignee: *See*—
Mowry, David T., and Ringwald.

Chenette, Edmond Z.: *See*—
Chenette, Joseph C., and E. Z.

Chenette, Joseph C., and E. Z. Chenette, Harlingen, Tex. Hand truck with adjustable toe plate. 2,653,033, Sept. 22.

Cherry Rivet Company, assignee: *See*—
Ketchum, Milo C., and Huffman.

Chesler, Abraham E., Woodmere, N. Y. Heart-lung apparatus. 2,652,831, Sept. 22.

Chiaberta, Serafino, assignor to Bulloneria e Viteria Italiana B. E. V. I., Milan, Italy. Machine for producing articles from blank stock. 2,652,577, Sept. 22.

Chiaberta, Serafino, assignor to B. E. V. I. Bulloneria e Viteria Italiana, Soc. a resp. lim., Milan, Italy. Wood screw manufacturing process. 2,652,578, Sept. 22.

Childs, Kenneth L., New Haven, Conn., assignor to Artisan Metal Products, Inc., Waltham, Mass. Frying apparatus. 2,652,767, Sept. 22.

Christensen, Alfred C., assignor, by mesne assignments, to Herbert Simpson Corporation, Chicago, Ill. Automatic shakeout device for tight flask molds. 2,652,605, Sept. 22.

Christensen, Alfred C., assignor, by mesne assignments, to Herbert Simpson Corporation, Chicago, Ill. Safety stop device. 2,652,914, Sept. 22.

Christenson, Sheldon B., Salt Lake City, Utah. Collapsible rack. 2,652,930, Sept. 22.

Chromatic Television Laboratories, Inc., assignee: *See*—
Lawrence, Ernest O.

Chu, Lan Jen, Brookline, and C. V. Robinson, Newton Center, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War. Antenna. 2,653,239, Sept. 22.

Chu, Lan Jen, Brookline, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Antenna. 2,653,241, Sept. 22.

Chudyk, Alex B., St. Louis Park, and R. J. Kutzler, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Combustion engine power control apparatus. 2,652,896, Sept. 22.

Ciba Limited, assignee: *See*—
Riat, Henri.

Ciba Pharmaceutical Products, Inc., assignee: See—
Miescher, Karl, and Anner.

Cities Service Company, assignee: *See*—
Hughes, William B.

Cities Service Research and Development Company, assignee: *See*—
Hughes, William B., and Fisher.

Clapp, Roger E., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Antenna direction indicator. 2,653,313, Sept. 22.

Clark, Edgar L. *See*—
Cody, William P., and Clark.

Clark, Hugh W., Troy, N. C. Creeper headrest. 2,652,576, Sept. 22.

Clark, James L., Chicago, Ill., assignor to the United States of America as represented by the Secretary of War. Resonant line oscillator. 2,653,244, Sept. 22.

Clerc, Leonard F., Detroit, Mich. Convertible bed. 2,652,573, Sept. 22.

Cleveland Trust Company, The, assignee: *See*—
Kinkead, Robert E.

Coach & Car Equipment Corporation, assignee: *See*—
Gundersen, Ralph W.

Cockman, Ralph L., High Point, N. C. Modulating pulsator. 2,653,196, Sept. 22.

Cody, William P., Lombard, and E. L. Clark, assignors to Alkydol Laboratories, Inc., Cicero, Ill. Ester resins for varnishes and inks using monomeric phenolic ethers of aliphatic polyhydroxy alcohols. 2,653,142, Sept. 22.

Coe Manufacturing Company, The, assignee: *See*—
St. Clair, Charles W.

Cohn, Waldo E., Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission. Preparation of carrier-free radioactive phosphorus values. 2,653,076, Sept. 22.

Coldset Foods Inc., assignee: *See*—
Baer, John M.

Cole, Thomas M., New York, N. Y., assignor to Federal Electric Products Company, Newark, N. J. Automatic circuit breaker with compensation provision for ambient temperature and mechanical shock. 2,653,202, Sept. 22.

Collett, Charles H.: *See*—
Bush, Walter M., and Collett.

Colonial Broach Company, assignee: *See*—
Jessup, James L., and Gotberg.

Color Television, Inc., assignee: *See*—
Sleeper, George E., Jr.

Commonwealth Scientific and Industrial Research Organization, assignee: *See*—
Walsh, Alan.

Como, Alma, Sulphur, La. Mold for making concrete steps. 2,652,614, Sept. 22.

Comstock, Willard F., Charleston, W. Va. Electrically operated incinerator. 2,653,213, Sept. 22.

Confino, Albert, New York, N. Y. Aligning means for neckties. 2,652,569, Sept. 22.

Conger, Emory R., Mendota, Calif. Quiz card game. 2,652,635, Sept. 22.

Conrad, George J., Baltimore, Md. Self-dumping ash tray. 2,652,837, Sept. 22.

Container Corporation of America, assignee: *See*—
Foster, Thomas W.

Continental Can Company, Inc., assignee: *See*—
Henchert, John.

Cook, David C., Seattle, Wash., and C. M. Gilbert, Chappaqua, N. Y., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War. Electronic voltage regulator circuit. 2,653,235, Sept. 22.

Cook, Richard S., Rockledge, and W. E. Craig, assignors to Rohm & Haas Company, Philadelphia, Pa. Dodecenylcyclohexylamines. 2,653,170, Sept. 22.

Cooke-Yarborough, Edmund H., assignor, by mesne assignments, to National Research Development Corporation, London, England. Amplitude-discriminating circuits. 2,653,231, Sept. 22.

Coolidge, Arthur W., Jr., Scotia, N. Y., assignor to General Electric Company. Gas-filled grid controlled electronic tube. 2,653,265, Sept. 22.

Corkrean, William H., Washington, D. C. Awning. 2,652,604, Sept. 22.

Cornelius, Richard T., Minneapolis, Minn. Valve. 2,653,005, Sept. 22.

Cottonwood Products, Incorporated, assignee: *See*—
Gerard, George A.

Court, Jean: *See*—
Casas, Robert, Ramon, and Court.

Cousy, Edwin V.: *See*—
Williams, Everard M., and Cousy.

Cox, Walter C., Denver, Colo. Traction mechanism for cog roads. 2,652,785, Sept. 22.

Coyne, Howard L., Rockville Centre, N. Y., and O. S. A. Mesch, Morristown, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Adjustable potentiometer termination. 2,653,207, Sept. 22.

Craft-Belt Company, assignee: *See*—
Hansen, Cecil F.

Craig, W. E.: *See*—
Cook, Richard S., and Craig.

Cralle, William F., Charlotte, N. C. Portable double bacon grill. 2,652,766, Sept. 22.

Crandall, Henry C., assignor to Mosinee Paper Mills Company, Mosinee, Wis. Glass strand reinforced paper. 2,653,090, Sept. 22.

Crane Co., assignee: *See*—
Schmidt, Edward G., and Svabek.

Crawford, Franso H., Williamstown, Mass., assignor to the United States of America as represented by the Secretary of War. Tunable magnetron tube. 2,653,276, Sept. 22.

Creel, James E., Warrior, and W. E. Russell, Birmingham, Ala. Swingable vehicle step. 2,653,036, Sept. 22.

Crescent Industries, Inc., assignee: *See*—
Siebert, Raymond C.

Crever, Frederick E., Scotia, N. Y., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Electromagnetic centrifugal pump. 2,652,778, Sept. 22.

Crewe Manufacturing & Tool Co., assignee: *See*—
Crewe, Samuel.

Crewe, Samuel, East Cleveland, assignor to Crewe Manufacturing & Tool Co., Cleveland, Ohio. Calk gun and cartridge adapter. 2,652,955, Sept. 22.

Crone, Alfred F., Kenmore, assignor to Acme Steel & Malleable Iron Works, Buffalo, N. Y. Road joint connection. 2,652,752, Sept. 22.

Croy, Charles R., Ecorse, Mich. Optical image focusing apparatus. 2,652,748, Sept. 22.

Cruce, Thomas M., Billings, Mont. Chain clip. 2,652,610, Sept. 22.

Cumfer, Dionne, assignee: *See*—
Cumfer, Harry A.

Cumfer, Donald A., Jr., assignee: *See*—
Cumfer, Harry A.

Cumfer, Harry, assignee: *See*—
Cumfer, Harry A.

Cumfer, Harry A., deceased, South Bend, Ind.; G. Domke, executrix of said H. A. Cumfer, assignor of one-third to L. C. Hayes, Chicago, Ill., one-third to E. C. Thompson, Whittier, Calif., one-twelfth to D. A. Cumfer, Jr., Nashville, Tenn., one-twelfth to M. L. Cumfer, South Bend, Ind., one-twelfth to D. Cumfer and one-twelfth to H. Cumfer, Houston, Tex. Portable cutting device. 2,652,892, Sept. 22.

Cumfer, Margaret L., assignee: *See*—
Cumfer, Harry A.

Curtis, John C., Claremont, N. H., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Rock drill bit. 2,653,010, Sept. 22.

Curtiss-Wright Corporation, assignee: *See*—
Le Compte, Frank M.

Cutler-Hammer, Inc., assignee: *See*—
Charbonneau, Allan P.
Feldhausen, Cyril P.
Jochem, Theodore B.

Cutler, Homer L., Newport Township, Marshall County, S. Dak. Window changer. 2,652,937, Sept. 22.

Dale, Colin B., Oak Park, assignor to Webster-Chicago Corporation, Chicago, Ill. Phonograph. 2,652,729, Sept. 22.

D'Angelo, Alfred J., Penn Valley, Narberth, assignor to Smith, Kline & French Laboratories, Philadelphia, Pa. Apparatus for coating tablets, pills, or other small objects. 2,652,805, Sept. 22.

Darling, Horace E., North Attleboro, assignor to The Foxboro Company, Foxboro, Mass. Electric motor follow-up system for measuring. 2,653,282, Sept. 22.

Darrell, George H., Dedham, Mass., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Target throwing machine. 2,652,820, Sept. 22.

Davis, Harold C., Webster Groves, assignor to Bemis Bro. Bag Company, St. Louis, Mo. Paper bag. 2,652,972, Sept. 22.

Davis, William H., Bala Cynwyd, assignor to Sun Oil Company, Philadelphia, Pa. Preparation of aromatic hydrocarbons. 2,653,175, Sept. 22.

Dean, Walter N.: *See*—
Johnstone, Charles W., Dean, and Mautner.

De Anguera, Philip, Cincinnati, assignor to Graham Tie Dowel Service Company, Columbus, Ohio. Machine for cutting defective sections from lumber. 2,652,864, Sept. 22.

Deardorff, Clinton E., San Fernando, and J. B. Gunn, North Hollywood, Calif., assignors to Bendix Aviation Corporation, South Bend, Ind. Explosion-energized source of hydraulic pressure fluid. 2,652,781, Sept. 22.

De Benneville, Peter L., Philadelphia, and V. C. Meunier, Flourtown, assignors to Rohm & Haas Company, Philadelphia, Pa. Condensation products of bis-aminotriazines. 2,653,143, Sept. 22.

De Benneville, Peter L., assignor to Rohm & Haas Company, Philadelphia, Pa. 4-N-substituted-2-ketopiperazines. 2,653,153, Sept. 22.

Decorola Corporation, assignee: *See*—
Sprung, Abraham.

Dedek, Frank G., assignor to Burroughs Corporation, Detroit, Mich. Photorecording means. 2,652,754, Sept. 22.

Dension Engineering Company, The, assignee: *See*—
Adams, Cecil E.

De Remer, J. G., Research Corporation, assignee: *See*—
De Remer, Jay G.

De Remer, Jay G., Darien, Conn., assignor to J. G. De Remer Research Corporation, Union City, N. J. Combined washing and centrifugal drying machine. 2,652,710, Sept. 22.

Derr, Willard A., Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Remote-control system. 2,653,188, Sept. 22.

De Shazo, Earl L., Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company. Method of and apparatus for measuring the polarity of seismometers. 2,653,305, Sept. 22.

Dessauer, John H., Pittsford, and M. A. Insalaco, assignors to The Haloid Company, Rochester, N. Y. Cyanine dye and making same. 2,653,152, Sept. 22.

Deutsch, Martin K., Hamburg, and H. W. Stobbe, Hamburg-Volksdorf, assignors to Lehn & Fink Products Corporation. Quaternary ammonium compounds and producing the same. 2,653,156, Sept. 22.

Deutsche Edelstahlwerke, assignee: *See*—
Becker, Gottfried, and Steinberg.

Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, assignee: *See*—
Wagner, Ernst.

De Vlieg, Howard R., Grosse Pointe Woods, Mich. Presetting device for cutting tools. 2,652,634, Sept. 22.

Devoe & Raynolds Company, Inc., assignee: *See*—
Greenlee, Sylvan O.

Dibble, Vaughan R., Tangerine, and V. R. Dibble, Jr., Eustis, assignors of one-third to E. J. Newhouse, Mount Dora, Fla. Air injector. 2,652,973, Sept. 22.

Dibble, Vaughan R., Jr.: *See*—
Dibble, Vaughan R., and V. R. Dibble, Jr.

Dilling, Elmer D., and G. L. Frederic, Albany, Oreg., assignors to the United States of America as represented by the Secretary of the Interior. Removing scale from zirconium metal and alloys thereof. 2,653,134, Sept. 22.

Doak, George O., and L. D. Freedman, Chapel Hill, N. C., assignors to the United States of America as represented by the Administrator of the Federal Security Agency. Preparation of organometallic compounds by reaction between dry diazonium compounds and metallic salts in organic solvents. 2,653,160, Sept. 22.

Dodds, Robert B., Woodbridge, assignor to The Safety Car Heating & Lighting Company, Inc., New Haven, Conn. Flow control apparatus for bulk products. 2,652,984, Sept. 22.

Dodge, Adiel Y., Rockford, Ill. Thermostatically controlled clutch and fan drive. 2,652,816, Sept. 22.

Dole Valve Company, The, assignee: *See*—
Rimsha, Victor E., and Goodrich.

Domke, Garnetta, executrix: *See*—
Cumfer, Harry A.

Dosker, Cornelius D., assignor to Gamble Brothers, Inc., Louisville, Ky. Continuous planar type panel forming machine. 2,652,870, Sept. 22.

Douma, Tjiske, San Carlos, Calif., assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Device comprising an electric discharge tube having a liquid cathode. 2,653,278, Sept. 22.

Drain, Herbert D., assignor to Walter E. Selck and Co., Chicago, Ill. Template. 2,652,866, Sept. 22.

Dreisbach, Robert H., assignor to The Magnavox Company, Fort Wayne, Ind. "Wow" analysis apparatus. 2,653,019, Sept. 22.

Dresser Equipment Co., assignee: *See*—
McArthur, Ralph F.

Drews, Ralph M., Cleveland, and H. L. Farling, Garfield Heights, assignors to Republic Steel Corporation, Cleveland, Ohio. Pickling. 2,653,115, Sept. 22.

Drury, Carroll H.: *See*—
Flanders, Ernest V., and Drury.

Dunhill, Alfred, Limited, assignee: *See*—
Smyth, Herbert C. H.

Dunn, James P., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Fastening device for bubble cap assemblies. 2,653,018, Sept. 22.

Dunn, Robert U., Phillips, Tex., assignor to Phillips Petroleum Company. Control apparatus. 2,652,846, Sept. 22.

Du Pont, E. I., de Nemours and Company, assignee: *See*—
Banigan, Thomas F.
Blaker, Robert H.
Catlin, Willard E.
Eiseman, Bernhardt J., Jr.
Gary, Hugh W., and Theobald.
Lane, Frank W.
Linch, Adrian L.
Roseveare, William E.
Swanson, Merrill E.

Dutcher, Harold W., assignor of twenty-five per cent to H. R. Morgan, San Antonio, Tex. Power-operated shears. 2,652,626, Sept. 22.

Dvorsky, Alexander L.: *See*—
Palo, Maurice, and Dvorsky.

Dyer, Lyman L., Dallas, Tex. Container. 2,653,038, Sept. 22.

Easter, Edward R.: *See*—
Helms, Leroy J., Easter, and Reinig.

Ebbs, William, and J. L. Harden, Plainview, Tex. Siphon retainer. 2,652,849, Sept. 22.

Ecusta Paper Corporation, assignee: *See*—
Schur, Milton O., and Levy.

Edwards, Andrew W.: *See*—
Wallace, James M., and Edwards.

Ehret, Robert J., and W. Moore, Jr., Philadelphia, Pa., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control apparatus. 2,653,279, Sept. 22.

Eiseman, Bernhardt J., Jr., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Fire extinguishing composition of CBr_2F_2 or CF_2BrCF_2Br containing CF_4 as a propellant. 2,653,130, Sept. 22.

Eisner, Harold, Au Marronier, Prangins, Switzerland. Antiskid tread surface. 2,652,876, Sept. 22.

Electronic Secretary, Inc., The, assignee: *See*—
Zimmermann, Joseph J.

Elliott, Olin S., Greenville, S. C. Gauge means for fitting screens to card cylinders. 2,652,633, Sept. 22.

Ellis, Walter E., Los Angeles, Calif. Trailer steering hitch. 2,653,032, Sept. 22.

Ellwood, Walter B.: *See*—
Brown, John T. L., and Ellwood.

Emerol Manufacturing Co., Inc., assignee: *See*—
Pierce, Clayton B.

Emery, Neville R., and P. O. Robards, Chicago, assignors, by mesne assignments, to Burgess-Manning Company, Libertyville, Ill. Air distribution system. 2,652,763, Sept. 22.

Emsig Manufacturing Company, assignee: *See*—
Sucher, Joseph R.

Engel, William, Detroit, assignor to No-Sag Spring Company, Warren Township, Mich. Spring supporting clip. 2,652,885, Sept. 22.

English Electric Valve Company Limited, assignee: *See*—
Kompfner, Rudolf.

Engstrum, Paul, assignor to Paul Engstrum Associates, Inc., Washington, D. C. Valve assembly. 2,652,857, Sept. 22.

Engstrum, Paul, Associates, Inc., assignee: *See*—
Engstrum, Paul.

Ericsson, Karl E., and E. G. A. Geber, assignors to Aktiebolaget Max Sievert, Sundbyberg, Sweden. Float valve and the like. 2,652,852, Sept. 22.

Erkkila, Andrew, assignor to Independent Lock Company, Fitchburg, Mass. Tubular latch casing. 2,653,046, Sept. 22.

Ernst, Adolf: *See*—
O'Neill, Danielle, and Ernst.

Esposito, Augustus, Irvington, and A. Galantino, Orange, N. J. Salt and pepper shaker. 2,652,951, Sept. 22.

Ethyl Corporation, assignee: *See*—
Beste, George W., Tanner, and Shapiro.

Etling, Betty J., trustee, assignee: *See*—
Etling, Harold A.

Etling, Harold A., assignor of twenty-fortieths to B. J. Etling, five-fortieths to B. J. Etling as trustee for T. D. Etling, five-fortieths to B. J. Etling as trustee for H. A. Etling, five-fortieths to B. J. Etling as trustee for M. A. Etling, and one-fortieth to J. C. Etling, all of Marshallville, Ohio. Window construction. 2,652,602, Sept. 22.

Etling, Harold A., Marshallville, Ohio. Inwardly swingable, vertically slidable window construction. 2,652,603, Sept. 22.

Etling, Jefferson C., assignee: *See*—
Etling, Harold A.

Etling, Millissa A., assignee: *See*—
Etling, Harold A.

Etling, Terry D., assignee: *See*—
Etling, Harold A.

Evans Case Co., assignee: *See*—
Reilly, Alfred F., Jr., and Larsen.

Everhart, Edgar, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Magnetron anode structure. 2,653,275, Sept. 22.

Everitt, Philip F., Seven Kings, and J. Keeble, Ilford, England, assignors, by mesne assignments, to Kelvin & Hughes Limited, Glasgow, Scotland. Sextant. 2,652,976, Sept. 22.

Fahey, Richard J., Evanston, and M. Burger, Morris, Ill., assignors to General Package Corporation. Carton handling and loading apparatus. 2,652,960, Sept. 22.

Fairchild Engine and Airplane Corporation, assignee: *See*—
Yujuico, Pedro S., and Stoner.

Farling, Harold L.: *See*—
Drews, Ralph M., and Farling.

Farnsworth Research Corporation, assignee: *See*—
Millett, Lewis F.

Fast, John E., & Co., assignee: *See*—
Kopinski, Frank.

Fay, Mervin A.: *See*—
Heuer, Russell P., and Fay.

Federal Electric Products Company, assignee: *See*—
Cole, Thomas M.

Federal Security Agency, United States of America as represented by the Administrator of the, assignee: *See*—
Doak, George O., and Freedman.

Feeney, Thomas A., Los Angeles, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Motion ratio changer 2,652,994, Sept. 22.

Feldhausen, Cyril P., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Control for multimotor drives. 2,653,283, Sept. 22.

Feltus, Abram M., Washington, Miss. Aerial target. 2,653,026, Sept. 22.

Fensl, Edward J., Schenectady, N. Y., assignor to General Electric Company. Combined manual and automatic hydraulic servomotor apparatus. 2,652,812, Sept. 22.

Ferguson, Daniel B., Denver, Colo. Casting reel. 2,652,990, Sept. 22.

Fernández, José V., Buenos Aires, Argentina. Apparatus for printing designs on cylindrical bodies. 2,652,771, Sept. 22.

Ferrier, Herman A. Oakland Calif. Filler box for cushion filling machines 2,652,962, Sept. 22.

Fettel, Martin G., Cleveland, Ohio. Electric fan. 2,652,974, Sept. 22.

Finch, Eugene E.: *See*—
Whitcomb, Keith R., and Finch.

Firecraft Corporation, assignee: *See*—
Miller, Karl B.

Fischer, Jacob, Jr., Stratford, assignor to Remington Arms Company, Inc., Bridgeport, Conn. Tube sizing lubricator. 2,652,751, Sept. 22.

Fisher, Everett B.: *See*—
Hughes, William B., and Fisher.

Fisher, Helen, Chicago, Ill. Means for attaching storm shoes to garments. 2,652,567, Sept. 22.

Fitch, Ellery R., assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio. Fluid pressure operated gun. 2,652,821, Sept. 22.

Fitzgerald, James F., Detroit, Mich. Trap mechanism. 2,652,655, Sept. 22.

FitzGerald, Lucian J., Waterloo, Iowa. Drawer construction for reading chairs. 2,652,887, Sept. 22.

Flanders, Ernest V., and C. H. Drury, assignors to Jones & Lamson Machine Company, Springfield, Vt. Crush dressing mechanism. 2,652,661, Sept. 22.

Fletcher, Arthur T., Bristol, assignor to The Fletcher-Terry Company, Forestville, Conn. Glass cutter. 2,652,659, Sept. 22.

Fletcher-Terry Company, The, assignee: *See*—
Fletcher, Arthur T.

Fluorescent Electric Manufacturing Company, assignee: *See*—
Helms, Leroy J., Easter, and Reinig.

Forwald, Haakon, Valhalla, assignor to Allmanna Svenska E'ektriska Aktiebolaget, Vasteras, Sweden. Equalizing device for air current in air blast circuit breakers. 2,653,204, Sept. 22.

Foster, Fred W., assignee: *See*—
Martin, William K.

Foster, Harry G., Mullens, W. Va. Animal releasing leash. 2,652,800, Sept. 22.

Foster, Henry W., Van Nuys, and R. L. Halpern, Hollywood, assignors to Lockheed Aircraft Corporation, Burbank, Calif. Mechanically timed electrically operated switch means. 2,653,200, Sept. 22.

Foster, Thomas W., assignor to Container Corporation of America, Chicago, Ill. Flatware package. 2,652,921, Sept. 22.

Fox, Harry S., Waimanalo, Oahu, Honolulu, assignor to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Aligning device. 2,652,915, Sept. 22.

Foxboro Company, The, assignee: *See*—
Allen, Albert.
Darling, Horace E.

France, Richard S.: *See*—
Schuchman, Carl D., and France.

Fratelli Borletti, Societa per Azioni, assignee: *See*—
Amman, Giuseppe.

Frazier Tandem Systems, Incorporated, assignee: *See*—
Frazier, Van L.

Frazier, Van L., assignor to Frazier Tandem Systems, Incorporated, Springfield, Mo. Axle load equalizing assembly. 2,653,034, Sept. 22.

Frederic, Gordon L.: *See*—
Dilling, Elmer D., and Frederic.

Freedman, Leon D.: *See*—
Doak, George O., and Freedman.

Freer, Clyde P., assignor to Halsey W. Taylor Company, Warren, Ohio. Precooler for refrigerated drinking fountains. 2,653,013, Sept. 22.

Freiberger, Herman, Glen Rock, assignor to Medical Fabrics Co., Inc., Paterson, N. J. Burn and wound dressing. 2,652,829, Sept. 22.

French Oil Mill Machinery Company, The, assignee: *See*—
Greenbank, George R.

Frost, Edward K., New York, N. Y. Cooling attachment for fans. 2,653,017, Sept. 22.

Fruth, Hal F., Skokie, Ill. Bimetallic fastener. 2,652,740, Sept. 22.

Frye, Charles F., Chicago, Ill. Machine control. 2,652,732, Sept. 22.

Fuller, Orla A., Indianapolis, Ind. Gauge. 2,652,632, Sept. 22.

Fuller, Rose, assignor to Philadelphia Leather Goods Corporation, Philadelphia, Pa. Handle for luggage and the like. 2,652,906, Sept. 22.

Funnell, Kenneth R., assignor to Funnell's Inventions Limited, Blenheim, Marlborough, New Zealand. Machine for loading bundles of tobacco leaves onto sticks. 2,652,932, Sept. 22.

Funnell's Inventions Limited, assignee: *See*—
Funnell, Kenneth R.

Galantino, Anthony: *See*—
Esposito, Augustus, and Galantino.

Galluppi, Bernardino F., assignor to Barker, Smith and Company, New York, N. Y. Pipe coupling. 2,653,040, Sept. 22.

Gamble Brothers, Inc., assignee: *See*—
Dooker, Cornelius D.

Gardner, Daniel, New York, N. Y. Production of fine graphite. 2,653,082, Sept. 22.

Garman, Raymond L., Pleasantville, N. Y., and C. B. Haupt, San Diego, Calif., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War. Radio echo training system. 2,652,636, Sept. 22.

Garvin, Charles W.: *See*—
Keller, Theodore W., and Garvin.

Gaylord Container Corporation, assignee: *See*—
George, Walter C.

Geber, Ernst G. A.: *See*—
Ericsson, Karl E., and Geber.

Gem Oil Tool Company, Inc., assignee: *See*—
Lewis, Russel W.

General Aniline & Film Corporation, assignee: *See*—
Willcox, Frederick P.

General Electric Company, assignee: *See*—
Allen, Robert K.
Blears, Jack, and Leck.
Coolidge, Arthur W., Jr.
Fensl, Edward J.
Harker, David.
Hauez, Walter.
Hurford, Winslow L.
Kelling, Leroy U. C.
Kubler, Ernest F.
Nelson, Richard B.
Ramo, Simon.
Scott, Benjamin B.
Sheahan, Robert E.
Spitzer, Charles F., and Reich.
Stoddard, Edgar S.

General Electric Company Limited, The, assignee: *See*—
Pickering, Ian J.

General Motors Corporation, assignee: *See*—
Guyton, James H.
Herndon, Walter B., Beck, and Tuschak.
Kawecki, Henry S., and Glowzinski.
Muchy, Louis.
Purchas, William J., Jr., and Orent.
Walker, Nelson.

General Package Corporation, assignee: *See*—
Fahey, Richard J., and Burger.

General Precision Laboratory Incorporated, assignee: *See*—
Carlson, Folke K.
Gray, John W.

General Refractories Company, assignee: *See*—
Heuer, Russell P., and Fay.

George, Anthony: *See*—
Peters, Tenal L., George, and Stidham.

George, Walter C., assignor to Gaylord Container Corporation, St. Louis, Mo. Folded-blank carton. 2,652,970, Sept. 22.

Gerard, George A., Roselle, N. J., assignor to Cottonwood Products, Incorporated, Baltimore, Md. Making shock absorbing and insulation material. 2,652,878, Sept. 22.

Gesellschaft der Ludw. von Roll'schen Eisenwerke A. G., assignee: *See*—
Schnyder, Othmar.

Gibson, Eugene C., assignor to Southern Iron & Equipment Company, Atlanta, Ga. Plow. 2,652,761, Sept. 22.

Gifford, Clayton E., and R. W. Keeler, assignors to The Huber Manufacturing Company, Marion, Ohio. Surface leveling apparatus. 2,652,642, Sept. 22.

Gilbert & Barker Manufacturing Company, assignee: *See*—
Dunn, James P.

Gilbert, Clarke M.: *See*—
Cook, David C., and Gilbert.

Gilda, Edward T., assignor to Carter Carburetor Corporation, St. Louis, Mo. Ball plug setting tool. 2,652,733, Sept. 22.

Ginston, Edward L., Los Altos, Calif., assignor to The Sperry Corporation. High-frequency power measuring apparatus. 2,653,299, Sept. 22.

Gisholt Machine Company, assignee: *See*—
Pomeroy, Jack L.
Sperisen, Ernest.

Glasener, Carl R.: *See*—
Willard, Alfred R., Glasener, Haak, and Young.

Glasser, Charles F., Salladasburg, Pa. Trap. 2,652,656, Sept. 22.

Glendinning, Alexander Y.: *See*—
Sullivan, Robert, Glendinning, and Read.

Glowzinski, Chester J.: *See*—
Kawecki, Henry S., and Glowzinski.

Godeck, John E., Esher, assignor to Brecomin (England) Limited, Gillingham, England. Drive for winding mechanism. 2,652,910, Sept. 22.

Godeck, John E., Esher, assignor to Brecomin (England) Limited, Gillingham, England. Magazine arrangement for record-receiving material in strip or wire form. 2,652,988, Sept. 22.

Godeck, John E., Esher, assignor to Brecomin (England) Limited, Gillingham, England. Electric dictation installation. 2,653,190, Sept. 22.

Goff, Harold W., Manhasset, N. Y. Marine pedometer. 2,652,803, Sept. 22.

Goldberg, Emanuel, Tel Aviv, Israel, assignor to Bell & Howell Company. Photographic copying apparatus. 2,652,744, Sept. 22.

Goldman, Jerome L., and L. Blum, New Orleans, La.; said Blum assignor to said Goldman. Submersible support for machinery. 2,652,693, Sept. 22.

Goldsmith, Alfred N., New York, N. Y., assignor to Radio Corporation of America. Additive color television. 2,653,183, Sept. 22.

Goodman, Clarence, High Point, and C. T. Miller, Hickory, N. C.; said Miller assignor to said Goodman. Multisection veneer knife. 2,652,860, Sept. 22.

Goodnight, Austin G., Laton, Calif. Dispenser. 2,653,068, Sept. 22.

Goodrich, Alonzo C.: *See*—
Rimsha, Victor E., and Goodrich.

Goodrich, B. F., Company, The, assignee: *See*—
Jansen, Jacob E., and Werber.
Snyder, Robert V.

Gordon, James B., Burlingame, Calif. Dietetically sweetened food products and preparing the same. 2,653,105, Sept. 22.

Gotberg, Harry H.: *See*—
Jessup, James L., and Gotberg.

Gotthart, Fred, Ridgewood, N. Y. Maximum indicating thermometer. 2,652,726, Sept. 22.

Grabinski, Edward E., Chicago, Ill. Power-driven table tool with portable vertical-shaft motor. 2,652,863, Sept. 22.

Graham, Henry H., assignee: *See*—
Perkins, W. B.

Graham Tie Dowel Service Company, assignee: *See*—
De Anguera, Philip.

Grant, Reginald H., Somes Bar, Calif. Bark-removing tool having oppositely rotating toothed rollers. 2,652,868, Sept. 22.

Graphic Arts Research Foundation, Inc., assignee: *See*—
Higonnet, René, and Moyroud.

Graumann, Raymond L., Alexandria, Va. Hydrostatic tail fuse. 2,652,777, Sept. 22.

Gray, David D., Mosman Park, Western Australia, Australia. Device for measuring and discharging fluids delivered thereto under pressure. 2,652,953, Sept. 22.

Gray, Hugh W., Wilmington, and C. W. Theobald, Roselle, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Treatment of beta-methylene-beta-propiolactone copolymers. 2,653,146, Sept. 22.

Gray, John W., White Plains, N. Y., assignor to General Precision Laboratory Incorporated. Square wave generator. 2,653,242, Sept. 22.

Gray, John W., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Electrical comparator circuit. 2,653,285, Sept. 22.

Greenbank, George R., assignor to The French Oil Mill Machinery Company, Piqua, Ohio. Continuous cooker. 2,653,084, Sept. 22.

Greenlee, Sylvan O., assignor to Devoe & Raynolds Company, Inc., Louisville, Ky. Partial esters of polyhydroxyl polyethers. 2,653,141, Sept. 22.

Greig, Harold G., Princeton, N. J., assignor to Radio Corportion of America. Photographic diazotype composition and heat development thereof. 2,653,091, Sept. 22.

Greig, Harold G., Princeton, N. J., assignor to Radio Corportion of America. Marking. 2,653,126, Sept. 22.

Greist Manufacturing Company, The, assignee: *See*—
Russell, Herbert H.

Grenier, Wilfred J., North Rutland, Mass. Machine for turning wood heel blanks. 2,652,865, Sept. 22.

Griffith, Dean A., administrator: *See*—
Griffith, Glen I.

Griffith, Glen I., deceased, Ventura, Calif.; D. A. Griffith, administrator, assignor to Pong Repeater Pistol Company, Ventura County, Calif. Toy pistol. 2,652,822, Sept. 22.

Griffiths, Peter G. J., assignor to Winalot Bloodstock Equipment Company, San Francisco, Calif. Bit holder. 2,652,671, Sept. 22.

Griswold, Laurence V., Cedar Rapids, Iowa. Trampolin. 2,652,966, Sept. 22.

Guardite Corporation, assignee: *See*—
Baer, John M.
Carman, Charles R.
Carman, Charles R., and Allison.

Guigas, Gustav: *See*—
Botley, Richard M., and Guigas.

Guinee, Edward J., Roselle, assignor to The H. A. Wilson Company, Newark, N. J. Producing composite metal. 2,652,624, Sept. 22.

Gump, B. F., Co., assignee: *See*—
Nowak, Leon J., Jr.

Gundersen, Ralph W., St. Paul, Minn., assignor to Coach & Car Equipment Corporation, Chicago, Ill. Tractor seat. 2,652,880, Sept. 22.

Gunn, Joseph B.: *See*—
Deardorff, Clinton E., and Gunn.

Guyton, James H., Kokomo, Ind., assignor to General Motors Corporation, Detroit, Mich. Signal actuated tuner control. 2,653,225, Sept. 22.

Haak, Fred C., Jr.: *See*—
Willard, Alfred R., Glasener, Haak, and Young.

Hagmeister, Heinrich, Herford, Germany. Toolholder. 2,652,749, Sept. 22.

Hale, Arthur N., Park Ridge, Ill., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine lubrication. 2,652,799, Sept. 22.

Hall, Arthur L., Memphis, Tenn. Pulveriser and mixer. 2,652,983, Sept. 22.

Hall, Joseph E., San Diego, Calif. Violin rest. 2,652,730, Sept. 22.

Halley, Angus M., Moseley, Birmingham, England. Rotary photogravure printing apparatus. 2,652,773, Sept. 22.

Haloid Company, The, assignee: *See*—
Dessauer, John H., and Insalaco.

Halpern, Robert L.: *See*—
Foster, Henry W., and Halpern.

Hammond, John G.: *See*—
Musk, Henry A., and Hammond.

Hammond, Robert S.: *See*—
Holmes, Louis D., and Hammond.

Hance, Harold V.: *See*—
Johnstone, Charles W., and Hance.

Hansen, Cecil F., assignor to Craft-Belt Company, Hastings, Mich. Multiplatform stepladder. 2,652,967, Sept. 22.

Harden, J. L.: *See*—
Ebbs, William, and Harden.

Hardman, Rena B., Los Angeles, Calif. One-piece foldable overshoe. 2,652,637, Sept. 22.

Harker, David, Brooklyn, N. Y., assignor to General Electric Company. System and apparatus for the formation of optical images. 2,653,240, Sept. 22.

Harris, Sterling G., Beaufort, assignor to Blue Channel Corporation, Port Royal, S. C. Apparatus for recovering oysters. 2,652,568, Sept. 22.

Hartemann, Georges, Montbard, assignor to Societe Anonyme Louvroil Montbard Aulnoye, Paris, France. Hydraulic-electric control system for tups for drop forging. 2,652,691, Sept. 22.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Douma, Tjiske.
Van Werd, Johannes H. F.

Hartwig, Edward C., Lancaster, and H. W. Van Ness, Buffalo, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electronic timer. 2,653,209, Sept. 22.

Hartzell, George P., Chester, Pa. Machine for cleaning and polishing space bands and the like. 2,652,579, Sept. 22.

Hastings, Charles E., Hampton, Va. Thermal air-speed indicator. 2,652,723, Sept. 22.

Haughton Elevator Company, assignee: *See*—
Borden, Joseph H., and Nikasy.

Haupt, Curtis R.: *See*—
Garman, Raymond L., and Haupt.

Haupt, Walter H., Kenton Hills, Ky., assignor to Keleket X-Ray Corporation, Cincinnati, Ohio. X-ray apparatus. 2,653,245, Sept. 22.

Hausz, Walter, Syracuse, N. Y., assignor to General Electric Company. Object detection. 2,653,309, Sept. 22.

Hawaiian Pineapple Company, Limited, assignee: *See*—
Botley, Richard M., and Guigas.
Fox, Harry S.

Haworth, Leland J., Cambridge, Mass., assignor by mesne assignments, to the United States of America as represented by the Secretary of War. Indicator apparatus for radio object locating systems. 2,653,312, Sept. 22.

Hayden, David H., Sarasota, Fla., assignor, by mesne assignments, to Beach & Shore, Inc., New York, N. Y. Breakwater construction. 2,652,692, Sept. 22.

Hayes, Lucille C., assignee: *See*—
Cumfer, Harry A.

Hayes, Melberne L., Oak Park, assignor to National Video Corporation, Chicago, Ill. Envelope treating apparatus, particularly glass envelopes for cathode-ray tubes. 2,652,842, Sept. 22.

Hays Corporation, The, assignee: *See*—
Richardson, Robert D., and Bailey.

Hedeen, Donald K.: *See*—
Smith, Kenneth A., and Hedeen.

Helm Company, The, assignee: *See*—
Helm, Lewis R.

Helm, Lewis R., assignor to The Helm Company, Fairfield, Conn. Ball bearing. 2,653,064, Sept. 22.

Hein, August E., and W. H. Klausing, assignors to The Century Machine Company, Cincinnati, Ohio. Dough divider. 2,652,790, Sept. 22.

Heller, Paul R.: *See*—
Baudry, René A., and Heller.

Helms, Leroy J., Baltimore, E. R. Easter, Anne Arundel County, and E. E. Reinig, Baltimore, Md., assignors to The Fluorescent Electric Manufacturing Company. Apparatus for displaying signs. 2,652,650, Sept. 22.

Henchert, John, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Sheet metal container. 2,652,947, Sept. 22.

Henchert, John, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Protector for a dispensing device for liquid products retained under pressure in a container. 2,653,053, Sept. 22.

Henry, Horace C., Sherman, Tex. Adjustable-saw carriage for folding arm radial saws. 2,652,862, Sept. 22.

Hensley, Alva C., Maroa, Ill., assignor to J. D. Whitson, Decatur, Ill., as trustee. Self-loading truck. 2,652,936, Sept. 22.

Herbenar, Edward J., Detroit, Mich. Combination bumper and retainer. 2,652,585, Sept. 22.

Hercules Powder Company, assignee: *See*—
Oakley, Norman B.

Herndon, Walter B., Rochester, R. F. Beck, and W. L. Tuschak, assignors to General Motors Corporation, Detroit, Mich. Fluid flywheel construction. 2,652,782, Sept. 22.

Hersch, Paul: *See*—
Hignett, Harold W. G., and Hersch.

Hess, Howard V.: *See*—
Arnold, George B., Hess, Skelton, and Overbaugh.

Heth, Sherman C.: *See*—
Krause, Norman R., and Heth.

Heuer, Russell P., Villa Nova, and M. A. Fay, Narberth, assignors to General Refractories Company, Philadelphia, Pa. Refractory furnace roof brick resistant to spalling. 2,653,793, Sept. 22.

Heyden Chemical Corporation, assignee: *See*—
Sokol, Herman, and Popino.

Hibbard, Lloyd J., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Pulsating-current motor. 2,653,286, Sept. 22.

Hibbard, Lloyd J., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Rectifier-powered vehicle. 2,653,287, Sept. 22.

Hidy, Elmo D., Cincinnati, Ohio. Degree-day register. 2,652,724, Sept. 22.

High Voltage Engineering Corporation, assignee: *See*—
McIntosh, Lloyd R.

Hignett, Harold W. G., and P. Hersch, Birmingham, England, assignors to The International Nickel Company, Inc., New York, N. Y. Alkaline storage battery and preventing its self-discharge. 2,653,180, Sept. 22.

Higonnet, René, and L. Moyroud, assignors to Graphic Arts Research Foundation, Inc., Cambridge, Mass. Photographic composing apparatus. 2,652,755, Sept. 22.

Hinderliter Tool Company Division H. K. Porter Company, Inc., assignee: *See*—
Arrowood, Hubert L.

Hintze, Olga C., Lowden, Iowa. Combination picnic tray and platter. 2,652,702, Sept. 22.

Hix, Howard J., Dearborn, assignor of twenty-five per cent to J. McCallion, Detroit, Mich. Plunger aid. 2,652,571, Sept. 22.

Hoag, James H., San Francisco, Calif. Key case. 2,652,712, Sept. 22.

Hoffmann-La Roche Inc., assignee: *See*—
Eteiger, Norbert, and Keller.

Hohenstein, Walter P., Kew Gardens, N. Y., assignor to The Whitney Blake Company, Hamden, Conn. Producing copolymers in the form of discrete particles. 2,653,145, Sept. 22.

Holley Carburetor Company, assignee: *See*—
Stresen Reuter, John H., and Karpus.

Holmes, Louis D., Blue Island, and R. S. Hammond, Winnetka, Ill., assignors to Whiting Corporation. Drop pit apparatus. 2,652,784, Sept. 22.

Holtz, Harry G., Oak Lawn, assignor to Swift & Company, Chicago, Ill. Packaging table-ready meats. 2,652,669, Sept. 22.

Holtzendorff, Lucian C., Valdosta, Ga. Supplemental seat for dental chairs and the like. 2,652,883, Sept. 22.

Hooven, Frederick J., Dayton, Ohio. Electrical system. 2,653,290, Sept. 22.

Hopeman, Albert A., Jr., Bronxville, N. Y., and J. A. Bohnsack, Waynesboro, Va., assignors to Hopeman Bros., Inc., New York, N. Y. Folding berth. 2,652,572, Sept. 22.

Hopeman Bros., Inc., assignee: *See*—
Hopeman, Albert A., Jr., and Bohnsack.

Hopp, Robert E., Poughkeepsie, N. Y. Vapor-heated suit. 2,652,824, Sept. 22.

Horizons Incorporated, assignee: *See*—
Taylor, Abraham.

Howlett, Edward J., Edgware, assignor to Isaac Braithwaite & Son Engineers Limited, Kendal, England. Flatwork ironing machine. 2,652,644, Sept. 22.

Hruby, Joseph: *See*—
Arndt, John P., Hruby, and Schulze.

Hubbard Spool Company, assignee: *See*—
Tucker, George G., Jr.

Huber Manufacturing Company, The, assignee: *See*—
Gifford, Clayton E., and Keeler.

Hudyma, Theodor, and M. Olijnyk, Stuttgart-Zuffenhausen, Germany. Vertical axis, pump and turbine hydraulic coupling. 2,652,688, Sept. 22.

Huffman, James O.: *See*—
Ketchum, Milo C., and Huffman.

Huge, Henry M., Lorain, Ohio, assignor to Lorain Products Corporation. Battery charger. 2,653,293, Sept. 22.

Hughes, John L., and A. R. Hyatt, Blandinsville, Ill. Grain cutting and windrow forming implement. 2,652,675, Sept. 22.

Hughes, Tom R., Inglewood, Calif., assignor to Owens-Illinois Glass Company. Article handling apparatus. 2,652,931, Sept. 22.

Hughes Tool Company, assignee: *See*—
Lewis, Russel W., and Moore.

Hughes, William B., and E. B. Fisher, Bartlesville, Okla., assignors to Cities Service Research and Development Company, New York, N. Y. Surface active compounds. 2,653,135, Sept. 22.

Hughes, William B., assignor to Cities Service Company, Bartlesville, Okla. Surface active compounds. 2,653,136, Sept. 22.

Hughes, William B., and E. B. Fisher, Bartlesville, Okla., assignors to Cities Service Research and Development Company, New York, N. Y. Surface active compounds. 2,653,137, Sept. 22.

Hull, William F., Lomita, assignor to Western Precipitation Corporation, Los Angeles, Calif. Anvil for attachment to electrode structures of electrical precipitators. 2,652,900, Sept. 22.

Humphries Automotive Improvement Corporation, assignee: *See*—
Humphries, Charles A.

Humphries, Charles A., assignor to Humphries Automotive Improvement Corporation, Cleveland, Ohio. Vapor feeding device for internal-combustion engines. 2,652,815, Sept. 22.

Hurford, Winslow L., North Syracuse, N. Y., assignor to General Electric Company. Plural camera television control system. 2,653,186, Sept. 22.

Hurwitz, Melvin D., Huntingdon Valley, and R. W. Auten, Jenkintown, assignors to Rohm & Haas Company, Philadelphia, Pa. N - N'- dichloro - 1,8 - diformamido - P-menthane. 2,653,169, Sept. 22.

Hutchison, Alexander C.: *See*—
Taylor, James, and Hutchison.

Hyatt, Arthur R.: *See*—
Hughes, John L., and Hyatt.

Imperial Chemical Industries Limited, assignee: *See*—
Mendoza, Mordecai.
Taylor, James, and Hutchison.

Independent Lock Company, assignee: *See*—
Erkkila, Andrew.

Ingalls, Clyde E., Lexington, and N. B. Nichols, Cambridge, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War. Automatic gain control circuit. 2,653,229, Sept. 22.

Insalaco, Michael A.: *See*—
Dessauer, John H., and Insalaco.

Interior, United States of America as represented by the Secretary of the, assignee: *See*—
Dilling, Elmer D., and Frederic.

International Nickel Company, Inc., The, assignee: *See*—
Hignett, Harold W. G., and Hersch.

Irwin Auger Bit Company, The, assignee: *See*—
Lacy, Richard C.

Isaacs, Jacob G., Wilkes-Barre, and M. F. Bonomo, Mountaintop, Pa. Hair curler. 2,652,840, Sept. 22.

Jack & Heintz Precision Industries, Inc., assignee: *See*—
Walley, Omar C., and Anderson.

Jacob, Robert M., Ablon-sur-Seine, assignor to Societe des Usines Chimiques Rhone-Poulenc, Paris, France. Gentisyl p-aminosalicylates and preparing same. 2,653,163, Sept. 22.

Jacobs, F. L., Co., assignee: *See*—
Visser, John.

Janiszewski, Kasimir, Milwaukee, Wis. Die set leader bearings with variable clearance. 2,652,893, Sept. 22.

Jansen, Jacob E., Akron, and F. X. Werber, North Royalton, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Preparation of cyclohexene-4-carboxylic acids. 2,653,167, Sept. 22.

Jansö, Arvid, and A. Sand, assignors to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Arrangement in spinning regulators. 2,652,681, Sept. 22.

Jaster, Erich H. E., Eggenfelden, Nuderbayren, Germany. Separable slide fastener. 2,652,611, Sept. 22.

Jenkins, Charles F.: *See*—
Purifoy, George R., and Jenkins.

Jensen, Johan G., and E. Johansen, Kristiansand, Norway. Combined level and square. 2,652,628, Sept. 22.

Jenson, Kenneth S., and F. W. Suhr, assignors to Preway Inc., Wisconsin Rapids, Wis. Oil burner baffle system. 2,652,889, Sept. 22.

Jernigan, Paul S., Fort Worth, Tex. Water discharge fitting for fuel tanks and the like. 2,652,926, Sept. 22.

Jessup, James L., and H. H. Gotberg, Detroit, assignors to Colonial Broach Company, Warren Township, Mich. Involute checking fixture and tailstock mounting therefor. 2,652,665, Sept. 22.

Jochem, Theodore B., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Drive system for conveyers. 2,652,919, Sept. 22.

Johannsen, Russel G., assignor, by mesne assignments, to Johannsen & Taylor, Inc., Detroit, Mich. Garage door supporting hardware. 2,652,584, Sept. 22.

Johannsen & Taylor, Inc., assignee: *See*—
Johannsen, Russel G.

Johansen, Erling: *See*—
Jensen, Johan G., and Johansen.

Johnson, John, Spokane, Wash. Fuel system for aircraft propulsion means. 2,652,686, Sept. 22.

Johnson, Ralph E., Mountainside, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Needle stripper foot for sewing machines. 2,652,796, Sept. 22.

Johnstone, Charles W., and W. N. Dean, Washington, D. C., and L. Mautner, Arlington, Va., assignors to the United States of America as represented by the Secretary of the Navy. Radio identification system. 2,653,234, Sept. 22.

Johnstone, Charles W., Garden City, N. Y., and H. V. Hance, Washington, D. C., assignors to the United States of America as represented by the Secretary of the Navy. Pulse lengthening circuit. 2,653,237, Sept. 22.

Jones, Forrest F.: *See*—
Schilling, John B., and Jones.

Jones & Lamson Machine Company, assignee: *See*—
Allan, James A., and Savage.
Flanders, Ernest V., and Drury.

Jones, Michael G.: *See*—
Russell, Arthur O., Jones, and Watts.

Jones, Michael G., Fredericksburg, Va., assignor to American Viscose Corporation, Wilmington, Del. Device for feeding, cutting, and stacking continuous webs or bands. 2,653,024, Sept. 22.

Joy, Joseph F., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Drafting table. 2,652,657, Sept. 22.

Joy Manufacturing Company, assignee: *See*—
Curtis, John C.
Joy, Joseph F.

Jury, Harold W.: *See*—
Lubcke, Harry R., and Jury.

Kahlstorf, Ervin, Laporte, Minn. Universal structural section. 2,652,764, Sept. 22.

Kallmeyer, Frederick A., South Orange, N. J. Mechanical massaging device. 2,652,826, Sept. 22.

Kalning, Frederick E.: *See*—
Wanzer, Arthur W., and Kalning.

Kamholtz, Harvey A. W.: *See*—
Brolin, Anders H., Kamholtz, and Blanchard.

Karpus, John T., Jr.: *See*—
Stresen Reuter, John H., and Karpus.

Katz, Nathan, New York, N. Y. Skip-numbering mechanism for printing presses or the like. 2,652,772, Sept. 22.

Kawecki, Henry S., Ortonville, and C. J. Glowzinski, assignors to General Motors Corporation, Detroit, Mich. Parking brake indicator light. 2,653,197, Sept. 22.

Keeble, John: *See*—
Everitt, Philip F., and Keeble.

Keegan, Jane M., Evanston, Ill. Coaster. 2,652,703, Sept. 22.

Keeler, Raymond W.: *See*—
Gifford, Clayton E., and Keeler.

Keene, Walter L., Dormont, assignor to Superior Steel Corporation, Pittsburgh, Pa. Making a cold formed bimetallic shape. 2,653,117, Sept. 22.

Keesling, Thomas B., Los Gatos, Calif. Peach pitter. 2,652,872, Sept. 22.

Kehrer, Fritz, assignor to Sandoz A. G., Basel, Switzerland. Cupriferous trisazo dyestuffs. 2,653,148, Sept. 22.

Keleher, William H., Chicago, Ill. Hatch construction for railway cars. 2,652,787, Sept. 22.

Keleket X-ray Corporation, assignee: *See*—
Haupt, Walter H.
Sussin, David, and Ware.

Kellenbenz, Alexander, Browns Mills, N. J. Lubrication warning signal switch. 2,653,205, Sept. 22.

Keller, Oscar: *See*—
Steiger, Norbert, and Keller.

Keller, Theodore W., Council Bluffs, Iowa, and C. W. Garvin, Omaha, Nebr. Bagmaking machine. 2,652,879, Sept. 22.

Kelling, Leroy U. C., Schenectady, N. Y., assignor to General Electric Company. Thyratron reversing motor control system. 2,653,289, Sept. 22.

Kelsey-Hayes Wheel Company, assignee: *See*—
Whitten, Owen M.

Kelvin & Hughes Limited, assignee: *See*—
Everitt, Philip F., and Keeble.

Kemp, Jacob D., Richmond, and H. P. Zeh, Berkeley, assignors to California Research Corporation, San Francisco, Calif. Inhibition of phosphoric acid corrosion. 2,653,177, Sept. 22.

Kent, Samuel J.: *See*—
Bacon, Clinton J., and Kent.

Kern, George R.: *See*—
Wick, Robert M., and Kern.

Kestenman Bros. Mfg. Co., assignee: *See*—
Valcourt, Louis E.

Ketchum, Milo C., Altadena, and J. O. Huffman, assignors to Cherry Rivet Company, Los Angeles, Calif. Blind rivet with clincher. 2,652,741, Sept. 22.

Khalil, Seyed, New York, N. Y. Escapement mechanism for typewriters and the like. 2,652,917, Sept. 22.

Kiekhaefer, Elmer C., Cedarburg, Wis. Crankshaft, piston, and connecting rod for internal-combustion engines. 2,652,728, Sept. 22.

Kiene, Louis H., Pasadena, Calif. Wrench extension handle. 2,652,736, Sept. 22.

Kiltie, Ordean, assignor to Ballastran Corporation, Fort Wayne, Ind. Stationary induction apparatus. 2,653,280, Sept. 22.

King Sales & Engineering Co., assignee: *See*—
McGibbon, Leonard.

Kinkead, Robert E., Shaker Heights, assignor to The Cleveland Trust Company, Cleveland, Ohio. Making composite metal. 2,653,212, Sept. 22.

Kirsch, Howard A., and W. E. Skelton, Beacon, and W. V. Overbaugh, Fishkill, assignors to The Texas Company, New York, N. Y. Continuous process for separation of wax-like constituents from oil. 2,653,123, Sept. 22.

Kish Plastic Products, Inc., assignee: *See*—
Kish, Steven P.

Kish, Steven P., assignor to Kish Plastic Products, Inc., Lansing, Mich. Making industrial models and fixtures. 2,652,595, Sept. 22.

Kittleson, Allen R., Cranford, N. J., assignor to Standard Oil Development Company, Manufacture of N-trichloromethylthio imides. 2,653,155, Sept. 22.

Klammt, Arthur, Yonkers, N. Y., and G. W. Kretzschmar, Garfield, N. J., assignors to W. M. Ritter Lumber Company. Machine for applying adhesives in the bottoms of the grooves of flooring strips. 2,652,806, Sept. 22.

Klausing, William H.: *See*—
Hein, August E., and Klausing.

Kluckhohn, Edward H., Naperville, Ill. Earth digging bucket. 2,652,639, Sept. 22.

Knell, Aleck, Los Angeles, Calif. Luggage handle. 2,652,909, Sept. 22.

Knott, Clyde L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Strand feeding mechanism for fastening inserting machines. 2,652,616, Sept. 22.

Kobert, Herman W., Doniphan, Mo. Hunting dog signal device. 2,652,640, Sept. 22.

Koch, Tobias: *See*—
Merck, Charles W., Jr., and Koch.

Komline, Thomas R., Ridgewood, N. J. Filter medium for rotary drum filters. 2,652,927, Sept. 22.

Komline, Thomas R., Ridgewood, N. J. Rotary drum filter. 2,652,928, Sept. 22.

Kompfner, Rudolf, Springfield, N. J., assignor, by mesne assignments, to English Electric Valve Company Limited, London, England. High-frequency energy interchange device. 2,653,270, Sept. 22.

Kopinski, Frank, assignor to John E. Fast & Co., Chicago, Ill. Electrostatic capacitor. 2,653,281, Sept. 22.

Kotler, William, Miami, Fla. Folding chair. 2,652,882, Sept. 22.

Kowalik, John J., assignor to American Steel Foundries, Chicago, Ill. Snubbed truck. 2,652,786, Sept. 22.

Kosa, Ralph H., Denver, and W. M. Stockam, Aurora, Colo., assignors to United Air Lines, Inc., Chicago, Ill. Device for administering gases. 2,652,830, Sept. 22.

Kozacka, Frederick J., Amesbury, assignor to The Chase-Shawmut Company, Newburyport, Mass. Current-limiting fuse. 2,653,203, Sept. 22.

Krause, Jack H., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Sweetening hydrocarbon oils. 2,653,124, Sept. 22.

Krause, Jack H., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Sweetening hydrocarbon oils. 2,653,125, Sept. 22.

Krause, Norman R., and S. C. Heth, assignors to J. I. Case Company, Racine, Wis. Harvester-thresher frame structure. 2,652,677, Sept. 22.

Krause, Norman R., assignor to J. I. Case Company, Racine, Wis. Windrow turning apparatus. 2,652,679, Sept. 22.

Krenke, Vincent G., Beaver, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric switching device. 2,653,198, Sept. 22.

Kretzschmar, George W.: *See*—
Klammt, Arthur, and Kretzschmar.

Kubiliunas, Ignas B., Boston, Mass. Wedge type curtain rod guide. 2,652,959, Sept. 22.

Kubler, Ernest F., Schenectady, N. Y., assignor to General Electric Company. Thyratron control system for series motors. 2,653,288, Sept. 22.

Kuhn, Herman C., Hammond, Ind., assignor to Sinclair Refining Company, New York, N. Y. Method and apparatus for the treatment of pitch. 2,652,591, Sept. 22.

Kumpfer, Beverly D., Spring Lake Heights, N. J., assignor to the United States of America as represented by the Secretary of the Army. Directly heated cathode structure. 2,653,268, Sept. 22.

Kurt, Anton, Jersey City, assignor to Anlo Inc., Newark, N. J. Article cleaning machine. 2,652,841, Sept. 22.

Kurz, Fredrik W. A., Nybro, Sweden. Producing laminated sheets of glass. 2,652,660, Sept. 22.

Kutzler, Robert J.: *See*—
Chudyk, Alex B., and Kutzler.

La Barbera, Mannie, Mount Vernon, N. Y. Display sign construction. 2,652,651, Sept. 22.

Labriola, Minnie O., assignee: *See*—
Labriola, Nicholas C., and Adamec.

Labriola, Nicholas C., Youngstown, Ohio, and G. Adamec, Bronx, N. Y., said Adamec assignor to M. O. Labriola. Utility master power unit. 2,652,690, Sept. 22.

Lacy, Richard C., assignor to The Irwin Auger Bit Company, Wilmington, Ohio. Milling fixture. 2,652,750, Sept. 22.

Lake City Malleable Company, The, assignee: *See*—
Micksch, Joseph E.

Lamb, Anthony H., Hillside, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Bimetallic thermometer mounting for double-walled tanks. 2,652,725, Sept. 22.

Lane, Frank W., Elkton, Md., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Metal oxide production. 2,653,078, Sept. 22.

Langabeer, Harvey T., Rockville Centre, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Power supply system. 2,653,253, Sept. 22.

Langen, Eugen, Braunschweig, assignor to Pfeifer und Langen, Elsdorf (Rhineland), Germany. Extraction tower. 2,653,114, Sept. 22.

Lanier, Robert F., Lanett, Ala. Railway crossing. 2,652,981, Sept. 22.

Larsen, Albert M., Jr.: *See*—
Reilly, Alfred F., Jr., and Larsen.

Lasko, George A., Toledo, Ohio. Dial ornamentation. 2,652,652, Sept. 22.

Lasley, James B., Lancaster, S. C., assignor to The Springs Cotton Mills, Inc. Means for opening and detwisting tubular fabric. 2,652,615, Sept. 22.

Lassiter, Jerry B., Windsor, Vt. Toy vehicle, including foot operated ratchet drive mechanism. 2,653,037, Sept. 22.

Lastik Seam Sales Corporation, assignee: *See*—
Weinberg, Robert.

Lawrence, Ernest O., Berkeley, assignor to Chromatic Television Laboratories, Inc., San Francisco, Calif. Color control grid structure for cathode-ray tubes. 2,653,263, Sept. 22.

Laxo, Ed, Oakland, Calif. Can body maker. 2,652,801, Sept. 22.

Leck, John H.: *See*—
Blears, Jack, and Leck.

Leclabart, Jean, Paris, France. Hair-waving apparatus. 2,652,839, Sept. 22.

Le Compte, Frank M., Chatham, N. J., assignor to Curtiss-Wright Corporation. Propeller blade construction. 2,652,897, Sept. 22.

Lee, Bernt, Viborg, S. Dak. Harrow drawbar. 2,652,674, Sept. 22.

Lee, Conrad E.: *See*—
Sardeson, Robert, Braden, and Lee.

Lee, Thomas S., Enterprises, Inc., assignee: *See*—
Lubcke, Harry R., and Jury.

Leef, John H., Minneapolis, Minn. Safety control for multiple ironing machines. 2,652,643, Sept. 22.

Lehn & Fink Products Corporation, assignee: *See*—
Deutsch, Martin K., and Stobbe.

Leibowitz, Joseph, Brooklyn, N. Y. Stapling device. 2,652,563, Sept. 22.

Levine, Irving E., Albany, assignor to California Research Corporation, San Francisco, Calif. Oxidation process. 2,653,165, Sept. 22.

Levy, Oscar C., Chicago, Ill., assignor to American Totalisator Company, Inc., Baltimore, Md. Computer. 2,652,977, Sept. 22.

Levy, René L., also known as René Lucien, Paris, France, assignor to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., Geneva, Switzerland. Oleo-pneumatic suspension system for automobiles and like vehicles. 2,653,021, Sept. 22.

Levy, Robert M.: *See*—
Schur, Milton O., and Levy.

Lewin-Mathes Company, assignee: *See*—
Schweich, Edward F.

Lewis, Russel W., assignor to Gem Oil Tool Company, Inc., Lafayette, La. Pipe lifter. 2,653,006, Sept. 22.

Lewis, Russel W., Lafayette, La., and S. C. Moore, assignors to Hughes Tool Company, Houston, Tex. Wear resistant tool joint. 2,653,061, Sept. 22.

Liebrecht, Ilse, assignee: *See*—
Scheuing, Georg, and Volgelbach.

Liebrecht, Julius, assignee: *See*—
Scheuing, Georg, and Vogelbach.

Linch, Adrian L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Stabilized aromatic amines. 2,653,171, Sept. 22.

Linke, Gerhard, Mulheim-Ruhr, Germany. Jaw crusher with opposed jaws driven by unbalanced weights. 2,652,985, Sept. 22.

Lippert, Erhard M., assignor to Victor Adding Machine Co., Chicago, Ill. Ribbon attaching means. 2,652,918, Sept. 22.

Liston, Sol, St. Kilda, Melbourne, Victoria, Australia. Molding, baking, depanning, and delivering means for loaves. 2,652,791, Sept. 22.

Litchford, George B., Cold Spring Harbor, N. Y., assignor to The Sperry Corporation. Air traffic control system. 2,653,314, Sept. 22.

Lockheed Aircraft Corporation, assignee: *See*—
Foster, Henry W., and Halpern.

Lofton, Jasper W., and M. T. Archer, Houston, Tex. Air cleaning device. 2,653,016, Sept. 22.

Lohmar, Walter F., Elgin, Ill. Fishing pole holder. 2,652,999, Sept. 22.

Longbotham, Thomas, Portland, Oreg. Drum sander. 2,652,666, Sept. 22.

Longhurst, Thomas J., Vancouver, British Columbia, Canada. Heat dispersing drinking cup. 2,652,701, Sept. 22.

Longstreet, James R., Bedford, assignor to The Warner & Swasey Company, Cleveland, Ohio. Chip flushing means for beds of machine tools. 2,652,737, Sept. 22.

Longworth, Robert A.: *See*—
Longworth, William B., and R. A.

Longworth, William B., Rock Tavern, and R. A. Longworth, Middleton, N. Y. Internal air chamber air-heating furnace. 2,652,823, Sept. 22.

Loose, Louis F., Buffalo, N. Y. Concrete block handling tool. 2,652,715, Sept. 22.

Lorain Products Corporation, assignee: *See*—
Huge, Henry M.

Love, Jabes A., Silver Creek Township, Berrien County, Mich. Lift type agricultural implement having multiple sets of transversely arranged ground engaging tools. 2,652,672, Sept. 22.

Lubcke, Harry R., Hollywood, and H. W. Jury, Burbank, assignors to Thomas S. Lee Enterprises, Inc., Los Angeles, Calif. Television equipment. 2,653,185, Sept. 22.

Lucien, René: *See*—
Levy, René L.

Luck, David G. C., and L. L. Burns, Jr., Princeton, N. J., assignors to Radio Corporation of America. Synchronizing apparatus. 2,653,187, Sept. 22.

Lundahl, Walter N., Pikesville, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. X-ray thickness gauge. 2,653,247, Sept. 22.

Lundstrom, Carl B., Little Falls, assignor to Lundstrom Laboratories, Inc., Herkimer, N. Y. Disappearing cabinet structure. 2,653,071, Sept. 22.

Lundstrom Laboratories, Inc., assignee: *See*—
Lundstrom, Carl B.

Luskin, Leo S., assignor to Rohm & Haas Company, Philadelphia, Pa. Synthesis of alkylene cyanohydrins. 2,653,162, Sept. 22.

Lustig, Hans G.: *See*—
Rougheedge, Robert H., and Lustig.

Lyons, Walter, Flushing, N. Y., assignor to Radio Corporation of America. Selective circuit. 2,653,194, Sept. 22.

MacKenzie, James C.: *See*—
Allenby, Owen, C. W., and MacKenzie.

MacLellan, George, & Company Limited, assignee: *See*—
MacLelland, Kenneth B. W.

MacLellan, Kenneth B. W., Maryhill, Glasgow, assignor to George MacLelland & Company Limited, Glasgow, Scotland. Kneepad for wear. 2,652,565, Sept. 22.

MacMillan, Richard H., Griffin, Ga. Warp beam. 2,652,993, Sept. 22.

Magnavox Company, The, assignee: *See*—
Dreisbach, Robert H.

Major, Frederick A., St. Louis, Mo. Holder and dispenser for collapsible tubes. 2,652,950, Sept. 22.

Maleck, Le Roy R., Chicago, Ill. Eyeglasses frame with spring biased temple arms. 2,652,747, Sept. 22.

Manville, Charles J., Pontiac, Mich. Backflow preventing unit for dishwashing apparatus. 2,652,850, Sept. 22.

Marathon Corporation, assignee: *See*—
Pfaff, Harold A.

Marden, John W., East Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Manufacture of refractory metal tubes. 2,652,623, Sept. 22.

Martin, William K., assignor of one-third to F. W. Foster, Cliff, N. Mex. Dispenser with spring pressed follower. 2,652,949, Sept. 22.

Martindell, Frank, Western Springs, assignor to Teletype Corporation, Chicago, Ill. Altitude control system. 2,653,307, Sept. 22.

Mason, Ford S., Lockport, N. Y. Vending machine. 2,652,916, Sept. 22.

Mason, Fred S., Lockport, N. Y. Vending machine. 2,653,069, Sept. 22.

Masonite Corporation, assignee: *See*—
Rodda, Lee, and Ward.

Matheson, James M., assignor to Willson Products, Inc., Reading, Pa. Respirator. 2,652,828, Sept. 22.

Mathewson Machine Works, Inc., assignee: *See*—
Wanser, Arthur W., and Kalning.

Mattingly, Lawrence J., Lombard, assignor to Motorola, Inc., Chicago, Ill. Automatic gain control system. 2,653,226, Sept. 22.

Mautner, Leonard: *See*—
Johnstone, Charles W., Dean, and Mautner.

Mayers, Lewis, New York, N. Y. Card index file. 2,652,833, Sept. 22.

McArthur, Ralph F., Huntington Park, Calif., assignor, by mesne assignments, to Dresser Equipment Co., Cleveland, Ohio. Fluid-operated free pump with packing device. 2,652,779, Sept. 22.

McCallion, Joseph, assignee: *See*—
Hix, Howard J.

McCann, Frank H., Salinas, Calif., and W. J. Schwertfeger, West Englewood, N. J., assignors to I. McCann, Salinas, Calif. Lettuce pack. 2,652,696, Sept. 22.

McCann, Ione, assignee: *See*—
McCann, Frank H., and Schwertfeger.

McClellan, Cyril E., Glen Burnie, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Automatic tuning of resonant circuits. 2,653,243, Sept. 22.

McClelland, Ralph B., assignor to Mellink Steel Safe Company, Toledo, Ohio. Filing cabinet locking controls. 2,653,070, Sept. 22.

McConnell, Robert A., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Radar system for distinguishing moving targets from stationary targets. 2,653,311, Sept. 22.

McCroba, Charles, Shadyside, Ohio. Device for cleaning the grooves and lips on can openings and lids. 2,652,582, Sept. 22.

McFarland, Jack K., and W. C. Neiss, Billings, Mont. Disposable drinking cup. 2,652,971, Sept. 22.

McGlhon, Leonard, San Leandro, assignor to King Sales & Engineering Co., San Francisco, Calif. Liquid filling valve. 2,652,985, Sept. 22.

McGill Manufacturing Company, Inc., assignee: *See*—
Popp, Rudolf.

McIntosh, Lloyd R., Winchester, assignor to High Voltage Engineering Corporation, Cambridge, Mass. Filament emission electrode and minimizing filament stresses therein. 2,653,267, Sept. 22.

McKinley, Billy S., assignor to Brown and Williamson Tobacco Corporation, Louisville, Ky. Apparatus for measuring moisture content of a traveling layer of material. 2,653,298, Sept. 22.

McLinden, James E., Jr., Rego Park, N. Y., assignor to Bendix Aviation Corporation, Teterboro, N. J. Gaseous electron tube structure. 2,653,264, Sept. 22.

McMillan, Fred L., and B. F. Wiley, Bartlesville, Okla., assignors to Phillips Petroleum Company. Thermal flowmeter. 2,652,721, Sept. 22.

McMillan, Fred L., Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company. Apparatus for electrical well logging. 2,653,294, Sept. 22.

Medical Fabrics Co., Inc., assignee: *See*—
Freiberger, Herman.

Medina, S. A., assignee: *See*—
Casas Robert, Ramon, and Court.

Mellink Steel Safe Company, assignee: *See*—
McClellan, Ralph E.

Melges, Frederick J., Battle Creek, Mich. Transportable dock. 2,652,694, Sept. 22.

Mendoza, Mordecai, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Morpholine aso dyestuffs. 2,653,150, Sept. 22.

Mesch, Orwar, S. A.: *See*—
Coyne, Howard L., and Mesch.

Messerly, George H., Staten Island, N. Y., and A. W. Campbell, Santa Fe, N. Mex., assignors to the United States of America as represented by the Secretary of the Army. Explosive flashlight. 2,653,073, Sept. 22.

Messing, Hjalmar S., assignor to American Defibrator Inc., New York, N. Y. Rotary feeding device. 2,652,935, Sept. 22.

Mettetal, Donald, Jr., assignor to Truck Service Inc., Chicago, Ill. Automobile transporting vehicle with adjustable track. 2,653,049, Sept. 22.

Meunier, Vincent C.: *See*—
De Benneville, Peter L., ad Meunier.

Meyer, Geo. J., Manufacturing Co., assignee: *See*—
Carter, Sidney T.

Mezger, Eduard, Kallnach, Switzerland. Vibration molding machine. 2,652,606, Sept. 22.

Mezger, Eduard, Kallnach, Switzerland. Vibration molding machine. 2,652,608, Sept. 22.

Micksch, Joseph E., Ashtabula, assignor to The Lake City Malleable Company, Cleveland, Ohio. Elongation indicator. 2,652,631, Sept. 22.

Middleton, William R., Wenonah, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Tellurium catalysts. 2,653,138, Sept. 22.

Miescher, Karl, Riehen, and G. Anner, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. Preparing derivatives of marrianolic acid. 2,653,164, Sept. 22.

Miller, Claud T.: *See*—
Goodman, Clarence, and Miller.

Miller, Elton W., Hampton, Va. Hanger. 2,652,998, Sept. 22.

Miller, Karl B., assignor to Firecraft Corporation, Chicago, Ill. Knockdown reversible hollow metal doorframe. 2,652,907, Sept. 22.

Millett, Lewis F., Detroit, Mich., assignor to Farnsworth Research Corporation. Miniature tube holder. 2,653,181, Sept. 22.

Millman, Jacob: *See*—
Allen, Richard C., and Millman.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Chudyk, Alex B., and Kutzler.
Ehret, Robert J., and Moore.

Mitchell, John L., assignor to Mitchell Mobilhangar Corporation, New York, N. Y. Mobile airplane hangar structure. 2,652,906, Sept. 22.

Mitchell Mobilhangar Corporation, assignee: *See*—
Mitchell, John L.

Modglin Company, Inc., assignee: *See*—
Montero, Bruno, and Palmer.

Mohylowski, Michal, Kansas City, Mo. Electric circuit testing device. 2,653,297, Sept. 22.

Moler, Maurice T., Homewood, assignor to United Specialties Company, Chicago, Ill. Combination air cleaner and chaff screen. 2,652,901, Sept. 22.

Montero, Bruno, Los Angeles, and R. J. Palmer, Long Beach, assignors to Modglin Company, Inc., Los Angeles, Calif., Making brooms. 2,653,056, Sept. 22.

Montgomery, James L., Indianapolis, Ind. Variable voltage device. 2,653,206, Sept. 22.

Moore, James B., Chicago, and R. R. Trexler, Evanston, assignors to J. B. Moore, Chicago, Ill., as trustee. Control system for plurality of liquid dispensing devices. 2,652,948, Sept. 22.

Moore, Stanely C.: *See*—
Lewis, Russel W., and Moore.

Moore, Thomas E., Austin, Tex., K. R. Spangenberg, and H. M. Zeidler, Palo Alto, Calif., assignors to the United States of America as represented by the Secretary of War. Coaxial resonant line coupling means. 2,653,301, Sept. 22.

Moore, Warren, Jr.: *See*—
Ehret, Robert J., and Moore.

Morek, Charles W., Jr., Philadelphia, and T. Koch, Lanadowne, assignors to Selas Corporation of America, Philadelphia, Pa. Internally fired gas burner. 2,652,890, Sept. 22.

Moreno, José H., San Pedro, Calif. Cooking pan. 2,652,768, Sept. 22.

Morey, Woodruff A.: *See*—
Vokac, Charles W., Rothenberger, and Morey.

Morgan, A. A., assignee: *See*—
Shaw, George E.

Morgan, Harry R., assignee: *See*—
Dutcher, Harold W.

Morley, Charles E., Detroit, Mich. Rearview mirror construction. 2,652,648, Sept. 22.

Morris, Rupert C.: *See*—
Ballard, Seaver A., Morris, and Van Winkle.

Morrow, William J., Dayton, Ohio. Optical apparatus for measuring temperature. 2,652,743, Sept. 22.

Morway, Arnold J., Rahway, and P. V. Smith, Jr., Westfield, N. J., assignors to Standard Oil Development Company. Oxo-bottoms base lubricating grease. 2,653,132, Sept. 22.

Moses, Robert C., Swampscott, Mass., assignor to Sylvania Electric Products Inc. Ratio detector. 2,653,230, Sept. 22.

Mosinee Paper Mills Company, assignee: *See*—
Crandall, Henry C.

Motorola, Inc., assignee: *See*—
Mattingly, Lawrence J.

Mowbray, Douglas T., Waterloo, Iowa. Liquid soap dispenser. 2,652,952, Sept. 22.

Mowry, David T., and E. L. Ringwald, Dayton, Ohio, assignors, by mesne assignments, to The Chemstrand Corporation. Quaternary salts. 2,653,166, Sept. 22.

Moyroud, Louis: *See*—
Higonnet, René, and Moyroud.

Muchy, Louis, assignor to General Motors Corporation, Detroit, Mich. Method of and apparatus for attaching clinch nuts to sheet metal members. 2,652,942, Sept. 22.

Murphy, Donald F., assignor to Bendix Aviation Corporation, Baltimore, Md. High altitude pressure responsive capsule. 2,652,859, Sept. 22.

Murphy, John N., Springfield, Ill. Mechanism to transfer automobiles. 2,652,938, Sept. 22.

Murray, Albert L., Auburn, Ind. Making shoe soles. 2,653,111, Sept. 22.

Murvall, Ake E., assignor to Aktiebolaget Urfabriken, Svangsta, Sweden. Fishing reel. 2,652,991, Sept. 22.

Musk, Henry A., Glen Burnie, and J. G. Hammond, Baltimore, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Antenna tuning control for radio transmitters. 2,653,223, Sept. 22.

Names, Paul, Puyallup, Wash. Berry harvester. 2,652,923, Sept. 22.

National Lead Company, assignee: *See*—
Blumenthal, Warren B.

National Research Development Corporation, assignee: *See*—
Cooke-Yarborough, Edmund H.

National Video Corporation, assignee: *See*—
Hayes, Melberne L.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Johnstone, Charles W., Dean, and Mautner.
Johnstone, Charles W., and Hance.

Nebolsine, Ross, New York, N. Y. Installation for the collection, treatment, and distribution of water. 2,653,129, Sept. 22.

Neiss, Wilmer C.: *See*—
McFarland, Jack K., and Neiss.

Nelden, Richard M., Detroit, assignor to American Blower Corporation, Dearborn, Mich. Rotary hydraulic coupling having adjustable overflow weir determining the extent of fill thereof. 2,652,689, Sept. 22.

Nelson, Richard B., Schenectady, N. Y., assignor to General Electric Company. Making a unitary thermionic filament structure. 2,652,621, Sept. 22.

Neugass, Edwin A., Portchester, N. Y. Brush. 2,652,580, Sept. 22.

Neugebauer, Franz J., Schenectady, N. Y. Two-stroke cycle internal-combustion engine. 2,652,817, Sept. 22.

Newcomb, Phtlip P., Manchester, assignor to United Aircraft Corporation, East Hartford, Conn. Drive for propellers. 2,652,730, Sept. 22.

Newell, Frank, Chicago, Ill., assignor to Pangborn Corporation, Hagerstown, Md. Blast cleaning. 2,652,662, Sept. 22.

Newhouse, Edward J., assignee: *See*—
Dibble, Vaughan R., and V. R. Dibble, Jr.

Nichols, Nathaniel B.: *See*—
Ingalls, Clyde E., and Nichols.

Niederhauser, Warren D., assignor to Rohm & Haas Company, Philadelphia, Pa. Chloropentenyl ethers. 2,653,173, Sept. 22.

Nikazy, Walter A.: *See*—
Borden, Joseph H., and Nikazy.

Niland, Thomas K., Houston, Tex. Wire and cable rewinder. 2,652,630, Sept. 22.

Nooney, Frank, Reno, Nev. Wedge for tools having wooden handles. 2,653,059, Sept. 22.

Northern Weld Mfg. Co., assignee: *See*—
Van Pelt, Dale M., Sanner, and Wilson.

Northrop Aircraft, Inc., assignee: *See*—
Aldrich, George R., and Bragg.
Feeney, Thomas A.

Northwest Engineering Corporation, assignee: *See*—
Brolin, Anders H., Kamboltz, and Blanchard.

No-Sag Spring Company, assignee: *See*—
Engel, William.

Novak, Daniel A., Calmar, Iowa. Fish holder. 2,653,048, Sept. 22.

Nowak, Leon J., Jr., assignor to B. F. Gump Co., Chicago, Ill. Variable pitch feeder. 2,652,954. Sept. 22.

Nu-Matic Nailer, Inc., assignee: *See*—
Bacon, Clinton J., and Kent.

Nusbaum, Dean S., Kalamazoo, Mich. Automatic drain valve for crankcase ventilators. 2,652,819, Sept. 22.

Oakley, Norman B., assignor to Hercules Powder Company, Wilmington, Del. Cellulose ether composition. 2,653,108, Sept. 22.

Ober, Dean C., East Cleveland, Ohio. Display attachment for electric light bulbs. 2,652,653, Sept. 22.

Ogilvie, Robert S., Bartlesville, Okla., assignor to Phillips Petroleum Company. Production and recovery of ammonium sulfate. 2,653,077, Sept. 22.

O'Halloran, Rosemary, Roselle Park, N. J., assignor to Standard Oil Development Company. Aluminum-carbon black thickened grease compositions. 2,653,131, Sept. 22.

Olijnyk, Maxym: *See*—
Hudyma, Theodor, and Olijnyk.

Önder, Kerim, New York, N. Y., assignor to Radio Corporation of America. Amplitude and frequency modulation radio receiver. 2,653,227. Sept. 22.

O'Neill, Danielle, and A. Ernst, Wildwood, N. J. Combination portable beach tent and umbrella. 2,652,843, Sept. 22.

Opavsky, Walter, Coburg, Germany. Production of seamless hollow rubber articles. 2,652,596, Sept. 22.

Orent, Edward: *See*—
Purchas, William J., Jr., and Orent.

Osborne, Frank, Adlington, near Macclesfield, assignor to Wm. Ayrton & Company, Limited, Longsight, Manchester, England. Precision cross winding for yarns. 2,652,987, Sept. 22.

Ostendorf, Bernard, Jr., Stamford, Conn., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Voltage regulator. 2,653,252, Sept. 22.

Overbaugh, Walter V.: *See*—
Arnold, George B., Hess, Skelton, and Overbaugh.
Kirsch, Howard A., Skelton, and Overbaugh.

Overbeke, John W., Cleveland, Ohio. Control valve. 2,653,003, Sept. 22.

Owens-Illinois Glass Company, assignee: *See*—
Bjering, Olav.
Hughes, Tom B.

Ozark Fisheries, Inc., assignee: *See*—
Washburn, George N.

Pacific Car and Foundry Company, assignee: *See*—
Schou, Carl E.

Package Machinery Company, assignee: *See*—
Schoppee, Lawrence W.

Padjen, John A., Evanston, Wyo. Portable lamp for vehicles. 2,653,001, Sept. 22.

Page, John H., assignor to Shaw-Walker Company, Muskegon, Mich. Tightening apparatus for typewriter mountings. 2,653,047, Sept. 22.

Pako Corporation, assignee: *See*—
Sardeson, Robert, Braden, and Lee.

Palmer, Raymond J.: *See*—
Montero, Bruno, and Palmer.

Palo, Maurice, and A. L. Dvorsky, assignor to The Astatic Corporation, Conneaut, Ohio. Pickup cartridge and tone arm assembly for phonographs. 2,653,191, Sept. 22.

Pan, Wen Y., Collingswood, N. J., assignor to Radio Corporation of America. Ultrahigh-frequency converter. 2,653,228, Sept. 22.

Pangborn Corporation, assignee: *See*—
Newell, Frank.

Parry, Harvey L., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Stabilization of acrolein. 2,653,172, Sept. 22.

Passman, Nathan E., Chicago, Ill. Bracket. 2,653,002, Sept. 22.

Paul, Alfred, Jr., Paul Spur, Ariz. Livestock dusting device. 2,652,810, Sept. 22.

Paulson, Frank O., Ridgewood, N. J. Material handling machine. 2,652,695, Sept. 22.

Pégard, Marcel, Paris, France. Indicating device for machine tools. 2,652,804, Sept. 22.

Pellegrini, Louis C., St. Louis, Mo. Defrosting system for heat exchange devices. 2,652,697, Sept. 22.

Perkins, W. B., St. Paul, assignor to H. H. Graham, Minneapolis, Minn. Coil spring compressing device. 2,652,625, Sept. 22.

Perlow, Gilbert J., and C. A. Schroeder, Washington, D. C. Probability scaler. 2,653,248, Sept. 22.

Peters, Tenal L., A. George, and L. Stidham, Tyler, Tex. Candy molding machine. 2,652,789, Sept. 22.

Petersen, Howard S., Los Angeles, Calif. Sanitary hinge for soda fountain lids. 2,652,587. Sept. 22.

Petroff, Merlin, Round Lake, assignor to Stewart-Warner Corporation, Chicago, Ill. Dual voltage regulator. 2,653,251, Sept. 22.

Pfaff, Harold A., Neenah, assignor to Marathon Corporation, Rothschild, Wis. Carton. 2,652,969, Sept. 22.

Pfeifer und Langen, assignee: *See*—
Langen, E.

Phelan, John K., Medford, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Frequency dividing circuit. 2,653,236, Sept. 22.

Philadelphia Leather Goods Corporation, assignee: *See*—
Fuller, Ross.

Philco Corporation, assignee: *See*—
Bowman, John M.

Phillips Petroleum Company, assignee: *See*—
Ackerman, Joseph L., Jr.
Brooke, Jesse M.
De Shazo, Earl L., Jr.
Dunn, Robert U.
McMillan, Fred L., Jr.
McMillan, Fred L., and Wiley.
Ogilvie, Robert S.
Piety, Raymond G.

Pickering, Ian J., Birmingham, assignor to The General Electric Company Limited, London, England. Welding apparatus and welding system. 2,653,277, Sept. 22.

Pierce, Clayton B., Port Chester, assignor to Emerol Manufacturing Co., Inc., New York, N. Y. Apparatus for feeding auxiliary liquids to internal-combustion engines. 2,652,818, Sept. 22.

Piety, Raymond G., Bartlesville, Okla., assignor to Phillips Petroleum Company. Method of and apparatus for determining total flow in a borehole. 2,652,720. Sept. 22.

Piety, Raymond G., Bartlesville, Okla., assignor to Phillips Petroleum Company. Seismometer. 2,653,806, Sept. 22.

Pike, Eugene W., assignor to Raytheon Manufacturing Company, Newton, Mass. Multiplication and division linkage operator. 2,652,978, Sept. 22.

Pike, Robert D., Greenwich, Conn. Direct production of steel from oxides of iron. 2,653,068, Sept. 22.

Pinderhughes, William, Baltimore, Md. Electric door lock. 2,653,045, Sept. 22.

Podbielniak, Walter J., assignee: *See*—
Angelo, Nicholas J.

Podbielniak, Wladzia G., assignee: *See*—
Angelo, Nicholas J.

Polaroid Corporation, assignee: *See*—
Bornemann, William.

Pomeroy, Jack L., assignor to Gisholt Machine Company, Madison, Wis. Automatic bottle sealing. 2,652,963, Sept. 22.

Pong Repeater Pistol Company, assignee: *See*—
Griffith, Glen I.

Popino, Robert P.: *See*—
Sokol, Herman, and Popino.

Popp, Rudolf, assignor to McGill Manufacturing Company, Inc., Valparaiso, Ind. Handle with outlet and switch for portable lamps. 2,653,219, Sept. 22.

Poser, Paul, London, England. Dyeing furs. 2,653,075, Sept. 22.

Potts, Ernest L., assignor, by mesne assignments, to C. C. Brown, Houston, Tex. Well jar. 2,653,008, Sept. 22.

Prescott, Thomas G., assignor to Bomac Laboratories Inc., Beverly, Mass. Radioactive primed resonant window for high-frequency discharge devices. 2,652,618, Sept. 22.

Press, Leon, Baltimore, Md. Retainer bearing drawer. 2,653,072, Sept. 22.

Preway Inc., assignee: *See*—
Jenson, Kenneth S., and Suhr.

Prots, William F., Manitowoc, Wis. Christmas tree ornament assembly and supporting means therefor. 2,653,216, Sept. 22.

Prucker, Frederick W. Jr., Stafford Springs, Conn. Framing square. 2,652,629, Sept. 22.

Purchas, William J., Jr., and B. Orent, Grand Rapids, assignors to General Motors Corporation, Detroit, Mich. Duplex nozzle. 2,653,054, Sept. 22.

Purifoy, George R., Pittsburgh, Pa., and W. L. Barclay, Jr., Scarsdale, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Motor-protection during dynamic braking. 2,653,284, Sept. 22.

Purifoy, George R., Pittsburgh, and C. F. Jenkins, Laughlintown, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Voltage and current responsive dynamic braking control system. 2,653,292, Sept. 22.

Puste, Elisabeth, Detroit, Mich. Cover for toilet tanks. 2,652,875, Sept. 22.

Quinn, Francis J., Upper Darby, Pa. Direct reading projection clock apparatus. 2,652,745, Sept. 22.

Radio Corporation of America, assignee: *See*—
Goldsmith, Alfred N.
Greig, Harold G.
Lack, David G. C., and Burns.
Lyons, Walter.
Önder, Kerim.
Pan, Wen Yuan.
Ulrich, Robert E., and Schlenker.
Vilkomerson, Benjamin S.
Wheeler, Benjamin F.

Ragland, Douglas, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Combination stabiliser and hydraulic pack-off Kelly joint. 2,653,009, Sept. 22.

Ramacher, Henry, Vallecito, Calif. Gathering reel. 2,652,678, Sept. 22.

Ramo, Simon, Schenectady, N. Y., assignor to General Electric Company. Ultrahigh-frequency generator. 2,653,272, Sept. 22.

Rameberger, Elmer F., Philadelphia, Pa. Curtain rod bracket and ring. 2,652,586, Sept. 22.

Ranzi, Ubaldo, Legnano, Italy. Device for adjusting the height of a ring of fluid, particularly water, in hydrodynamic brakes and such like. 2,652,853, Sept. 22.

Rauh, Elmer M., and C. W. Bergerson, Buffalo, N. Y. Medical diagnostic instrument. 2,652,825, Sept. 22.

Raytheon Manufacturing Company, assignee: *See*—
Pike, Eugene W.

Read, Leonard M.: *See*—
Sullivan, Robert, Glendinning, and Read.

Reich, Robert J.: *See*—
Spitser, Charles F., and Reich.

Reilly, Alfred F., Jr., and A. M. Larsen, Jr., North Attleboro, Mass., assignors to Evans Case Co. Mechanism for controlling emission of gas from lighters. 2,652,707, Sept. 22.

Reinig, Elmer E.: *See*—
Helms, Leroy J., Easter, and Reinig.

Remington Arms Company, Inc., assignee: *See*—
Catlin, Robert T.
Darrell, George H.
Fischer, Jacob, Jr.

Renier, John B., South Bend, Ind. Purifying alcoholic liquor. 2,653,092, Sept. 22.

Renoux, Pierre E., Aix-en-Provence, France, assignor to S. A. Societe Nationale de Constructions Aeronautiques du Sud-Est. Device for stabilising rotary-wing aircraft. 2,652,898, Sept. 22.

Renteria, Cruz C., Chicago, Ill. Conditioning cutlery sharpener. 2,652,668, Sept. 22.

Republic Steel Corporation, assignee: *See*—
Drews, Ralph M., and Farling.

Research Corporation, assignee: *See*—
Sloan, David H.

Reynolds Manufacturing Company, assignee: *See*—
Ward, James C.

Rhea Manufacturing Company, assignee: *See*—
Armstrong, Alice E.

Riat, Henri, assignor to Ciba Limited, Basel, Switzerland. Cupriferous disazo dyestuffs. 2,653,140, Sept. 22.

Rice, Edgar C., Blue Island, and G. M. Rothenberger, assignors to Whiting Corporation, Harvey, Ill. Apparatus for controlling hoists and the like. 2,653,291, Sept. 22.

Richards, Arthur J., Detroit, Mich. Attaching frame for seat covers. 2,652,886, Sept. 22.

Richardson, Robert D., Coalspring Township, La Porte County, and G. B. Bailey, Long Beach, assignors to The Hays Corporation, Michigan City, Ind. Device for measuring absolute pressure. 2,652,727, Sept. 22.

Richie, Harold B., assignor to Swift & Company, Chicago, Ill. Scraping implement. 2,652,581, Sept. 22.

Rieck, William L., Kankakee, Ill. Stretching and shaping form for neckties. 2,652,956, Sept. 22.

Rimsha, Victor E., Chicago, and A. C. Goodrich, Winnetka, assignors to The Dole Valve Company, Chicago, Ill. Combined clothes washer and drier. 2,652,708, Sept. 22.

Ringwald, Eugene L.: *See*—
Mowry, David T., and Ringwald.

Ripley, Stanley W., Gravesend, assignor to British Insulated Calender's Cables Limited, London, England. Mounting for reels, bobbins, and the like. 2,652,989, Sept. 22.

Risco, Joseph L., Los Angeles, Calif. Flavoring device. 2,652,765, Sept. 2.

Ritter, W. M., Lumber Company, assignee: *See*—
Klammt, Arthur, and Kretzschmar.

Robards, Preston O.: *See*—
Emery, Neville R., and Robards.

Robbins, Frederick P., Highland Park, Ill. Photoreproduction device. 2,652,757, Sept. 22.

Robertson, Frank H.: *See*—
Swain, Arthur E., and Robertson.

Robinson, Charles V.: *See*—
Chu, Lan Jen, and Robinson.

Robinson, James E., Eggertsville, N. Y., assignor to American Optical Company, Southbridge, Mass. Transmission of picture and sound on the same carrier. 2,653,184, Sept. 22.

Rodda, Lee, Elmhurst, and H. M. Ward, Aurora, Ill., assignors to Masonite Corporation, Laurel, Miss. Building frame. 2,652,599, Sept. 22.

Rohm & Haas Company, assignee: *See*—
Cook, Richard S., and Craig.
De Benneville, Peter L.
De Benneville, Peter L., and Meunier.
Hurwitz, Melvin D., and Austen.
Luskin, Leo S.
Niederhauser, Warren D.

Romani, Lucien, Paris, France. Windmill and heat pump set. 2,652,699, Sept. 22.

Romani, Lucien, Paris, France. Torque governor for engine making use of a power supply that is subject to great variation. 2,653,250, Sept. 22.

Roseveare, William E., Richmond, Va., assignor to E. I. Du Pont de Nemours & Company, Wilmington, Del. Heat stabilized cellulose yarn. 2,653,112, Sept. 22.

Rothenberger, George M.: *See*—
Rice, Edgar C., and Rothenberger.
Vokac, Charles W., Rothenberger, and Morey.

Rougheedge, Robert H., Ramsey, N. J., and H. G. Lustig, New York, N. Y., assignors to Celanese Corporation of America. Knitting machine. 2,652,704, Sept. 22.

Rowe, Marion H., Dallas, assignor to American Desk Manufacturing Co., Temple, Tex. Theater seat. 2,652,881, Sept. 22.

Rubenstein, Louis, Kansas City, Mo. Tool handle connection. 2,653,060, Sept. 22.

Ruffle, William H., assignor to Speed Development Company Limited, Hove, England. Thermocouple device. 2,653,178, Sept. 22.

Russell, Arthur O., M. G. Jones, and W. M. Watts, Fredericksburg, Va., assignors to American Viscose Corporation, Wilmington, Del. Device for feeding a continuous web. 2,653,023, Sept. 22.

Russell, Herbert H., assignor to The Greist Manufacturing Company, New Haven, Conn. Blind stitch attachment for sewing machines. 2,652,796, Sept. 22.

Russell, William E.: *See*—
Creel, James E., and Russell.

Rust, Mack D., Coalinga, Calif. Cotton-picking machine. 2,652,676, Sept. 22.

S. A. Societe Nationale de Constructions Aeronautiques du Sud-Est, assignee: *See*—
Renoux, Pierre E.

Safety Car Heating & Lighting Company, Inc., The, assignee: *See*—
Dodds, Robert B.

Sailer, Norris H., Union, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Low inertia type drag cup motor. 2,653,257, Sept. 22.

St. Clair, Charles W., assignor to The Coe Manufacturing Company, Painesville, Ohio. Thermostat-controlled condensation drainer. 2,652,980, Sept. 22.

Sampson, James W., and C. M. Champion, Sheridan, Wyo. Diaper washing apparatus. 2,652,711, Sept. 22.

Sand, Albert: *See*—
Jansö, Arvid, and Sand.

Sandoz A. G., assignee: *See*—
Kehrer, Fritz.

Sanitary Products Corporation, assignee: *See*—
Carrier, John A.

Sanner, Leighton W.: *See*—
Van Pelt, Dale M., Sahner, and Wilson.

Sardeson, Robert, J. F. Braden, and C. E. Lee, assignors to Pako Corporation, Minneapolis, Minn. Agitating device for photographic, liquid developer. 2,652,758, Sept. 22.

Sargeson, John, Long Branch, Ontario, Canada. Artificial hand. 2,652,570, Sept. 22.

Saunders-Roe Limited, assignee: *See*—
Swain, Arthur E., and Robertson.

Savage, Francis C.: *See*—
Allan, James A., and Savage.

Scheiwiller, Karl, St. Gallen, assignor to Brutsch & Co., Zurich, Switzerland. Sewing machine table. 2,652,800, Sept. 22.

Scheuing, Georg, and C. Vogelbach, assignors to E. Boehringer, A. Boehringer, J. Liebrecht, I. Liebrecht, born Boehringer, trading under the firm of C. H. Boehringer Sohn, Ingelheim am Rhine, Germany. Purification of chlorocyclohexanes. 2,653,174, Sept. 22.

Schield, Bantam Company, assignee: *See*—
Schield, Vern L.

Schield, Vern L., assignor to Schield Bantam Company, Waverly, Iowa. Detachable trench hoe spade. 2,652,640, Sept. 22.

Schilling, John B., and F. F. Jones, Portland, Oreg. Barrel, reflector base, and associated parts for electric lanterns. 2,653,218, Sept. 22.

Schlenker, Vesper A.: *See*—
Ulrich, Robert E., and Schlenker.

Schlumbohm, Peter, New York, N. Y. Portable icebox. 2,652,698, Sept. 22.

Schmidt, Edward G., La Grange, and J. E. Svabek, Jr., assignors to Crane Co., Chicago, Ill. Pilot valve and indicator construction. 2,652,851, Sept. 22.

Schnell, Ernst O., Chicago, Ill. Permanent waving of hair. 2,653,121, Sept. 22.

Schnyder, Othmar Klus, assignor to Gesellschaft der Ludw. von Roll'schen Eisenwerke A. G., Gerlafingen, Switzerland. Pivoted stop valve. 2,653,004, Sept. 22.

Schoppee, Lawrence W., Springfield, assignor to Package Machinery Company, East Longmeadow, Mass. Device for forming and supplying gum sticks to a wrapping machine. 2,652,788, Sept. 22.

Schou, Carl E., Seattle, assignor to Pacific Car and Foundry Company, Renton, Wash. Centrifugally balanced fluid clutch. 2,652,913, Sept. 22.

Schroeder, Clarence A.: *See*—
Perlow, Gilbert J., and Schroeder.

Schuchman, Carl D., Vancouver, and R. S. France, Ridgefield, Wash. Bearing cleaner. 2,652,848, Sept. 22.

Schulze, John J.: *See*—
Arndt, John P., Hruby, and Schulze.

Schur, Milton O., Asheville, and R. M. Levy, Brevard, N. C., assignors to Ecusta Paper Corporation. Cigarette paper. 2,652,834, Sept. 22.

Schur, Milton O., Asheville, and R. M. Levy, Brevard, N. C., assignors to Ecusta Paper Corporation. Cigarette paper. 2,652,835, Sept. 22.

Schweich, Edward F., St. Louis County, assignor to Lewin-Mathes Company, St. Louis, Mo. Container for packaging torus-like objects and articles. 2,652,922, Sept. 22.

Schwertfeger, Walter J.: *See*—
McCann, Frank H., and Schwertfeger.

Scott-Atwater Manufacturing Co. Inc., assignee: *See*—
Carlson, Byron, and Betsold.

Scott, Benjamin B., Schenectady, N. Y., assignor to General Electric Company. Wire guide. 2,652,966, Sept. 22.

Scott, Floyd L., Jr.: *See*—
Brown, Cicero C., and Scott.

Scott, Robert C., Belmont, Mass., assignor to United States of America as represented by the Secretary of War. Electron discharge device anode. 2,653,259, Sept. 22.

Segebarth, Herman P., Brussels, assignor to "Societe Anonyme des Ecremeuses Persoons," Thildonck-Wespelaer, Belgium. Pulsatory device for milking machines. 2,652,847, Sept. 22.

Seibel, Charles M., assignor, by mesne assignments, to The Cessna Aircraft Company, Wichita, Kans. Vibration damper for long shafts. 2,652,700, Sept. 22.

Seiss, Leonard A., assignor to The Seiss Manufacturing Company, Toledo, Ohio. Electric battery lamp. 2,653,215, Sept. 22.

Seiss Manufacturing Company, The, assignee: *See*—
Seiss, Leonard A.

Selas Corporation of America, assignee: *See*—
Morck, Charles W., Jr., and Koch.

Selck, Walter E., and Co., assignee: *See*—
Drain, Herbert D.

Sengiar, John J., Los Angeles, Calif. Structural section. 2,652,713, Sept. 22.

Sentel, Clara A.: *See*—
Brenner, Abner, Burkhead, and Sentel.

Seymour, Raymond B., Allentown, assignor to The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa. Structure having bonded thereto a corrosion resistant surface. 2,653,118, Sept. 22.

Shaklee, Forrest C., Sr., assignee: *See*—
Burch, Marble E.

Shanks, Robert R., Dallas, Tex. Eyeglasses frame with detachably mounted lenses. 2,652,746, Sept. 22.

Shapiro, Hymin: *See*—
Beste, George W., Tanner, and Shapiro.

Shaw, George E., assignor of one-half to A. A. Morgan, Neillsville, Wis. Electric test bottle bath. 2,653,214, Sept. 22.

Shaw-Walker Company, assignee: *See*—
Page, John H.

Sheahan, Robert E., Chagrin Falls, Ohio, assignor to General Electric Company. Bag support and motor shield for suction cleaners. 2,652,902, Sept. 22.

Shell Development Company, assignee: *See*—
Ballard, Seaver A., Morris, and Van Winkle.
Parry, Harvey L.

Sherbondy, William A., Shaker Heights, Ohio. Cartridge filling apparatus. 2,652,961, Sept. 22.

Sherman, Donald W., assignor to A. O. Smith Corporation, Milwaukee, Wis. Welded pressed steel dual wheel. 2,653,057, Sept. 22.

Shipton, Edward, Ferndown, Northwood Hills, England. Telephone apparatus. 2,653,192, Sept. 22.

Shoemaker, John H., Scappoose, Oreg. Shoe calk assembly. 2,652,638, Sept. 22.

Shore, Jesse J., Brownwood, Tex. Tool handle. 2,653,029, Sept. 22.

Siebert, Raymond C., Park Ridge, assignor to Crescent Industries, Inc., Chicago, Ill. Indicator and control device. 2,652,891, Sept. 22.

Siglin, Pierce W., Asbury Park, N. J., assignor to the United States of America as represented by the Secretary of the Army. Range measuring apparatus. 2,653,232, Sept. 22.

Simpson, Herbert, Corporation, assignee: *See*—
Christensen, Alfred C.

Sinclair Refining Company, assignee: *See*—
Beckberger, La Vern H.
Campbell, Oliver F.
Kuhn, Herman C.
Smith, Kenneth A., and Hedeen.

Singer Manufacturing Company, The, assignee: *See*—
Hale, Arthur N.
Johnson, Ralph E.
Saller, Norris H.

Skelton, William E.: *See*—
Arnold, George B., Hess, Skelton, and Overbaugh.
Kirsch, Howard A., Skelton, and Overbaugh.

Skinner, Asa W., Riverdale, assignor to Whiting Corporation, Harvey, Ill. Crossover bridge and operating mechanism. 2,652,783, Sept. 22.

Skoog, Folke, assignor to Wisconsin Alumni Research Foundation, Madison, Wis. Induction of bud formation in plant tissues. 2,653,067, Sept. 22.

Sleeper, George E., Jr., Berkeley, assignor to Color Television, Inc., San Francisco, Calif. Multicolor television. 2,653,182, Sept. 22.

Sloan, David H., Berkeley, Calif., assignor to Research Corporation, New York, N. Y. High-frequency amplifier. 2,653,273, Sept. 22.

Slopa, George W. and R. E., Chicago, Ill. Refrigerator door construction. 2,652,601, Sept. 22.

Slopa, Robert E.: *See*—
Slopa, George W. and R. E.

Smith, A. O., Corporation, assignee: *See*—
Andrus, Orrin E.
Sherman, Donald W.

Smith, Edwin E., Eagle Lake, Tex. Intermeshing sectional matting. 2,652,753, Sept. 22.

Smith, Howard E., Monroe, Mich. Navel umbilical pressure shield. 2,652,827, Sept. 22.

Smith, Kenneth A., Park Forest, and D. K. Hedeen, Markham, Ill., assignors to Sinclair Refining Company, New York, N. Y. Treatment of pitch. 2,652,593, Sept. 22.

Smith, Kline & French Laboratories, assignee: *See*—
D'Angelo, Alfred J.

Smith, Paul V., Jr.: *See*—
Morway, Arnold J., and Smith.

Smullin, Louis D., Arlington, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Wide band transmit receive switch. 2,653,300, Sept. 22.

Smyth, Herbert C. H., Bedford Park, London, assignor of one-half to Alfred Dunhill Limited, London, England. Pyrophoric lighter. 2,652,706, Sept. 22.

Snlader, David H., Chicago, Ill. Liquid cooling and dispensing device. 2,653,014, Sept. 22.

Snyder, Jacob R., Cleveland, Ohio. Tie plate clamp and rail guard. 2,652,982, Sept. 22.

Snyder, Robert V., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Repair unit for tire valve stems. 2,652,858, Sept. 22.

"Societe Anonyme des Ecremeuses Persoons," assignee: *See*—
Segebarth, Herman P.

Societe Anonyme Louvroil Montbard Aulnoye, assignee: *See*—
Hartemann, Georges.

Societe des Usines Chimiques Rhone-Poulenc, assignee: *See*—
Jacob, Robert M.

Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., assignee: *See*—
Levy, René L.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Middleton, William R.

Sokol, Herman, Hasbrouck Heights, N. J., and R. P. Popino, Brooklyn, assignors to Heyden Chemical Corporation, New York, N. Y. Purification of streptomycin. 2,653,151, Sept. 22.

Somers, Lysle E., Los Angeles, Calif. Hydraulic transmission. 2,652,911, Sept. 22.

Sommers, Paul H., Montgomery, Ala. Means to facilitate the laying of masonry units. 2,652,714, Sept. 22.

Southern Iron & Equipment Company, assignee: *See*—
Gibson, Eugene C.

Spangenberg, Karl R.: *See*—
Moore, Thomas E., Spangenberg, and Zeidler.

Spatz, Sydney M., Middletown, assignor to Allied Chemical & Dye Corporation, New York, N. Y. Preparing fumaryl chloride. 2,653,168, Sept. 22.

Speed Development Company Limited, assignee: *See*—
Ruffle, William H.

Sperisen, Ernest, Sun Prairie, assignor to Gisholt Machine Company, Madison, Wis. Bearing. 2,653,062, Sept. 22.

Sperry Corporation, The, assignee: *See*—
Ginston, Edward L.
Litchford, George B.
Woodyard, John R.

Sperti Faraday, Inc., assignee: *See*—
Stern, Lewis J.

Spitzer, Charles F., Syracuse, N. Y., and R. J. Reich, Hamden, Conn., assignors to General Electric Company. Nonlinear resonant flip-flop circuit. 2,653,254, Sept. 22.

Spo, Inc., assignee: *See*—
Young, Lester C.

Spooner, Lee R., Watertown, S. Dak., assignor, by mesne assignments, to Swift & Company. Hog dropper device. 2,652,589, Sept. 22.

Springs Cotton Mills, Inc., The, assignee: *See*—
Lasley, James B.

Sprung, Abraham, assignor to Decorola Corporation, Brooklyn, N. Y. Coating device. 2,652,774, Sept. 22.

Stancliff, Edwin O., Bakersfield, Calif. Playpen. 2,653,011, Sept. 22.

Standard Oil Company, assignee: *See*—
Krause, Jack H.

Standard Oil Development Company, assignee: *See*—
Kittleson, Allen R.
Merway, Arnold J., and Smith.
O'Halloran, Rosemary.
Ragland, Douglas.
Young, David W., and Vanderbilt.

Standard Register Company, The, assignee: *See*—
Zimmerman, Jerome G.

Steiger, Norbert, Nutley, and O. Keller, Clifton, assignors to Hoffmann-La Roche Inc., Nutley, N. J. Benzothiazole derivatives and manufacture. 2,653,154, Sept. 22.

Steinberg, Fritz: *See*—
Becker, Gottfried, and Steinberg.

Stephens, Robert A., Palmer Township, Northampton County, Pa., assignor, by mesne assignments, to C. K. Williams & Co., East St. Louis, Ill. Producing ferric oxide compositions of polishing rouge grade and the product thereof. 2,653,080, Sept. 22.

Stephens, Robert A., Palmer Township, Northampton County, Pa., assignor, by mesne assignments, to C. K. Williams & Co., East St. Louis, Ill. Producing ferric oxide compositions of polishing grade. 2,653,081, Sept. 22.

Sterling, Robert F., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. In-place expanded cellular resinous bodies and producing them from phenol-aldehyde resins with the aid of a peroxide. 2,653,139, Sept. 22.

Stern, Lewis J., assignor to Sperti Faraday, Inc., Adrian, Mich. Master clock system. 2,652,683, Sept. 22.

Stewart-Warner Corporation, assignee: *See*—
Allen, George W., and Tramontini.
Petroff, Merlin.

Stidham, Lee: *See*—
Peters, Tenal L., George, and Stidham.

Stinson, Jack B., Long Island City, N. Y. Speed control system. 2,653,020, Sept. 22.

Stobbe, Hans W.: *See*—
Deutsch, Martin K., and Stobbe.

Stockam, Willis M.: *See*—
Koza, Ralph H., and Stockam.

Stoddard, Edgar S., Berwyn, Ill., assignor to General Electric Company. Drain control mechanism for washing apparatus. 2,652,854, Sept. 22.

Stoner, Charles F. U.: *See*—
Yujuico, Pedro S., and Stoner.

Stresen Reuter, John H., Birmingham, and J. T. Karpus, Jr., assignors to Holley Carburetor Company, Detroit, Mich. Pressure ratio sensing device. 2,652,813, Sept. 22.

Sucher, Joseph R., Woodmere, assignor to Emsig Manufacturing Company, New York, N. Y. Compression molding plastic materials. 2,652,597, Sept. 22.

Suciu, Mary, Fostoria, Mich. Cardholder. 2,652,647, Sept. 22.

Sudia, Frank, Jr., Turtle Creek, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Making molds. 2,652,600, Sept. 22.

Suhr, Frederick W.: *See*—
Jenson, Kenneth S., and Suhr.

Sullivan, Robert, Teddington, A. Y. Glendinning, Feltham, England, and L. M. Read, Llandaff, Cardiff, Wales, assignors to British Resin Products Limited, London, England. Apparatus for the continuous milling of plastics. 2,652,590, Sept. 22.

Sultan, Max, Brooklyn, N. Y. Self-releasing lock control. 2,653,047, Sept. 22.

Sun Oil Company, assignee: *See*—
Aston, Herbert P.
Bowen, Frank W.
Davis, William H.

Superior Steel Corporation, assignee: *See*—
Keene, Walter L.

Sussin, David, South Fort Mitchell, and H. S. Ware, Fort Mitchell, Ky., assignors to Keleket X-Ray Corporation, Cincinnati, Ohio. X-ray apparatus. 2,653,246, Sept. 22.

Sutowski, Walter S., Garfield Heights, Ohio. Fabricating metallic members having portions of different widths. 2,652,620, Sept. 22.

Svabek, John E., Jr.: *See*—
Schmidt, Edward G., and Svabek.

Swain, Arthur E., East Cowes, and F. H. Robertson, Carisbrooke, Isle of Wight, assignors to Saunders-Roe Limited, East Cowes, Isle of Wight, England. Flying controls for aircraft. 2,652,995, Sept. 22.

Swanson, Merrill E., Woodbury Heights, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Percussion initiated detonater. 2,652,775, Sept. 22.

Swift & Company, assignee: *See*—
Holtz, Harry G.
Richie, Harold B.
Spooner, Lee R.

Switzer, Joseph L., Cleveland Heights, R. C. Switzer, South Euclid, and R. A. Ward, Cleveland, Ohio, assignors, by mesne assignments, to said J. L. and R. C. Switzer. Light-responsive fluorescent media. 2,653,109, Sept. 22.

Switzer, Robert C., assignee: *See*—
Switzer, Joseph L. and R. C., and Ward.

Sylvania Electric Products Inc., assignee: *See*—
Moses, Robert C.

Szekely, O. E., & Associates, Inc., assignee: *See*—
Szekely, Otto E.

Szekely, Otto E., assignor to O. E. Szekely & Associates, Inc., Philadelphia, Pa. Radar antenna. 2,653,240, Sept. 22.

Tanner, Homer M.: *See*—
Beste, George W., Tanner, and Shapiro.

Tavannes Watch Co. S. A., assignee: *See*—
Bridevaux, Georges.

Taylor, Abraham, Cleveland, Ohio, assignor to Horizons Incorporated, Princeton, N. J. Demountable X-ray tube construction. 2,653,260, Sept. 22.

Taylor, Edward C., Hartford, Vt., assignor to Van Norman Company, Springfield, Mass. Method and apparatus for compensating for grinding wheel wear. 2,652,663, Sept. 22.

Taylor, Halsey W., Company, assignee: *See*—
Freer, Clyde P.

Taylor, James, and A. C. Hutchison, Saltcoats, Scotland, assignors to Imperial Chemical Industries Limited. Gas-producing nondetonating composition. 2,653,086, Sept. 22.

Teletype Corporation, assignee: *See*—
Martindell, Frank.

Templeton, William E., Lexington, Ohio. Apparatus for spreading manure. 2,653,028, Sept. 22.

Texas Company, The, assignee: *See*—
Arnold, George B., Hess, Skelton, and Overbaugh.
Kirsch, Howard A., Skelton, and Overbaugh.

Thatcher, Charles J., New York, N. Y. Method and system for air conditioning. 2,653,012, Sept. 22.

Theobald, Clement W.: *See*—
Gray, Hugh W., and Theobald.

Thompson, Edith C., assignee: *See*—
Cumfer, Harry A.

Tomanica, Andrew C., Lansing, Mich. Suction brush having removable brush units for cleaning Venetian blinds. 2,652,583, Sept. 22.

Toomey, John A., Worcester, Mass. Combination child's crib and dressing table. 2,652,574, Sept. 22.

Tramontini, Vernon N.: *See*—
Allen, George W., and Tramontini.

Travis, Alfred, Woodley, near Stockport, England. Means for feeding round metal stock such as bars and rods to straightening or reeling machines. 2,652,877, Sept. 22.

Trexler, Richard R.: *See*—
Moore, James B., and Trexler.

Truck Service, Inc., assignee: *See*—
Mettetal, Donald, Jr.

Tucker, George G., Jr., Berwyn, assignor to Hubbard Spool Company, Chicago, Ill. Reel traverse. 2,652,902, Sept. 22.

Turchan, Manuel, Dearborn, Mich. Vertical boring mill attachment. 2,652,731, Sept. 22.

Tuschak, William L.: *See*—
Herndon, Walter B., Beck, and Tuschak.

Ulrich, Robert E., Riverton, and V. A. Schlenker, Camden, N. J., assignors to Radio Corporation of America. Projection lamp holder. 2,653,217, Sept. 22.

United Aircraft Corporation, assignee: *See*—
Newcomb, Philip P.
Willgoos, Andrew V. D.

United Air Lines, Inc., assignee: *See*—
Koza, Ralph H., and Stockam.

United Shoe Machinery Corporation, assignee: *See*—
Boothroyd, Harold W., and Zink.
Knott, Clyde L.

United Specialties Company, assignee: *See*—
Moler, Maurice T.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Cohn, Waldo E.
Crever, Frederick E.

U'Ren, Dwight E., Beaver Dam, Wis. Scutching apparatus. 2,652,598, Sept. 22.

Ursprung, Rudolf A., Aarburg, assignor to Aktiengesellschaft vormals B. Siegfried, Zofingen, Switzerland. p-Amino-salicylic acid derivatives and their production. 2,653,157, Sept. 22.

Valcourt, Louis E., East Providence, assignor to Kestenman Bros. Mfg. Co., Providence, R. I. Means for connecting bracelets to wrist watches. 2,652,612, Sept. 22.

Vanderbilt, Byron M.: *See*—
Young, David W., and Vanderbilt.

Van Guilder, Ernest L., Granville, N. Y. Coupling and fastening means for tool shanks and handles. 2,653,030, Sept. 22.

Van Hise, Lester E., Los Angeles, Calif. Dishwasher. 2,652,844, Sept. 22

Van Ness, Hubert W. *See*—
Hartwig, Edward C., and Van Ness.

Van Norman Company, assignee: *See*—
Taylor, Edward C.

Van Pelt, Dale M., and L. W. Sanner, Loveland, and J. Wilson, Ault, Colo., assignors to Northern Weld Mfg. Co. Dump hoist. 2,653,052, Sept. 22.

Van Schie, Robert, Grand Rapids, Mich. Machine for separating and delivering metal sheets from a stack. 2,652,934, Sept. 22.

Van Werd, Johannes H. F., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Socket for incandescent lamps or discharge tubes comprising two parallel contact sleeves. 2,653,303, Sept. 22.

Van Winkle, John L.: *See*—
Ballard, Seaver A., Morris, and Van Winkle.

Vedder, Fred A., Okauchee, Wis. Water tube boiler. 2,652,814, Sept. 22.

Vermeiren, Theophile I. S., Deurne-Anvers, Belgium. Magnetic treatment device for liquids. 2,652,925, Sept. 22.

Vickers, Reginald J., The Plains, Va. Gate fastener. 2,653,044, Sept. 22.

Vickery, Robert K., assignor to Bostrom-Brady Manufacturing Company, Atlanta, Ga. Surveying instrument. 2,652,827, Sept. 22.

Victor Adding Machine Co., assignee: *See*—
Lippert, Erhard M.

Vilkomerson, Benjamin S., Camden, N. J., assignor to Radio Corporation of America. Frequency converter system. 2,653,224, Sept. 22.

Visser, John, Grand Rapids, assignor to F. L. Jacobs Co., Detroit, Mich. Ash receiver. 2,652,944, Sept. 22.

Vogelbach, Curt: *See*—
Scheuing, Georg, and Vogelbach.

Vokac, Charles W., Cicero, G. M. Rothenberger, H. and W. A. Morey, Park Forest, Ill., assignors to Whiting Corporation. Hydraulic-electrical apparatus for automatically regulating the position of direct arc electric furnace electrodes. 2,653,269, Sept. 22.

Von Wittern, Wolf-Wito, Dayton, Ohio. Accelerometer pickup of very small size and weight. 2,653,302, Sept. 22.

W. & F. Manufacturing Co., Inc., The, assignee: *See*—
Williams, Paul A.

Wadsworth, Howard M., Liverpool, N. Y. Detachable electrical connector. 2,653,304, Sept. 22.

Wagner, Ernst, Konstanz, assignor to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Frankfurt am Main, Germany. Preparation of chlorine dioxide. 2,653,079, Sept. 22.

Wagner, Paul E., Beaver Springs, Pa. Automatic chain conveyer type poultry feeder. 2,652,808, Sept. 22.

Walker, Nelson, Flint, assignor to General Motors Corporation, Detroit, Mich. Tank closure. 2,652,945, Sept. 22.

Wallace, James M., and A. W. Edwards, East McKeesport, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Integrator mechanism for line sectionalizers. 2,653,201, Sept. 22.

Walley, Omar C., Cleveland, and R. L. Anderson, Maple Heights, assignors to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Electric motor brake coupling assembly. 2,653,256, Sept. 22.

Wallman, William R., South Bend, Ind. Voucher check. 2,653,039, Sept. 22.

Walsh, Alan, Canterbury, Victoria, assignor to Commonwealth Scientific and Industrial Research Organization, East Melbourne, Victoria, Australia. Monochramator. 2,652,742, Sept. 22.

Walton, George M., Shaker Heights, and R. E. Brown, South Euclid, assignors to Air-Maze Corporation, Cleveland, Ohio. Silencer with a resonance chamber. 2,652,899, Sept. 22.

Wanser, Arthur W., and F. E. Kalning, assignors to Mathewson Machine Works, Inc., Quincy, Mass. Apparatus for automatically making blood sugar screening tests. 2,653,083, Sept. 22.

War, United States of America as represented by the Secretary of, assignee: *See*—
Allen, Richard C., and Millman.
Babcock, Horace W.
Bainbridge, Kenneth T.
Brenner, Abner, and Burkhead.
Brenner, Abner, Burkhead, and Sentel.
Chance, Britton.
Chu, Lan J.
Chu, Lan J., and Robinson.
Clapp, Roger E.
Clark, James L.
Cook, David C., and Gilbert.
Crawford, Franso H.
Everhart, Edgar.

Garman, Raymond L., and Haupt.
Gray, John W.
Haworth, Leland J.
Ingalls, Clyde E., and Nichols.
McConnell, Robert A.
Moore, Thomas E., Spangenberg, and Zeidler.
Phelan, John K.
Scott, Robert C.
Smullin, Louis D.

Ward, Harley M.: *See*—
Rodda, Lee, and Ward.

Ward, James C., assignor to Reynolds Manufacturing Company, Springfield, Mo. Torque rod assembly for spring suspension. 2,653,035, Sept. 22.

Ward, Richard A.: *See*—
Switzer, Joseph L., and R. C. Switzer, and Ward.

Ware, Haden S.: *See*—
Sussin, David, and Ware.

Warner & Swasey Company, The, assignee: *See*—
Longstreet, James R.

Warren, Millard R., Knoxville, Tenn. Building block molding machine. 2,652,613, Sept. 22.

Washburn, George N., assignor to Ozark Fisheries, Inc., Stoutland, Mo. Device for the transportation and storage of live fish. 2,652,807, Sept. 22.

Wasshem, Dore W., Norrkoping, Sweden. Gripping device. 2,652,734, Sept. 22.

Watrous, Ward W., Jr., Chatham, assignor to Chatham Electronics Corporation, Newark, N. J. Gas discharge device. 2,653,261, Sept. 22.

Watts, Leon A., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Device for mechanically sizing the slots of magnetic cores. 2,652,619, Sept. 22.

Watts, William M.: *See*—
Russell, Arthur O., Jones and Watts.

Weaver, Harry B., Dundalk, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Testing multiconductor insulated wires. 2,653,296, Sept. 22.

Webster-Chicago Corporation, assignee: *See*—
Dale, Colin B.

Wehr, Robert D., Lakeland, Fla. Apparatus for extracting juice from citrus fruits. 2,652,769, Sept. 22.

Weinberg, Robert, assignor to Lastik Seam Sales Corporation, New York, N. Y. Tape. 2,652,705, Sept. 22.

Weiss, Howard G.: *See*—
Aagaard, Fridtjof, and Weiss.

Welty, Frank and R. D., Youngstown, assignors to Carbonic Dispenser, Inc., Canfield, Ohio. Faucet for dispensing carbonated beverages. 2,652,856, Sept. 22.

Welty, Frank and R., Youngstown, assignors to Carbonic Dispenser, Inc., Canfield, Ohio. Dispensing and mixing valve. 2,653,055, Sept. 22.

Welty, Raymond: *See*—
Welty, Frank and R.

Welty, Raymond D.: *See*—
Welty, Frank and R. D.

Werber, Frank X.: *See*—
Jansen, Jacob E., and Werber.

Western Precipitation Corporation, assignee: *See*—
Hull, William F.

Western Electric Company, Incorporated, assignee: *See*—
Weaver, Harry B.

Westinghouse Electric Corporation, assignee: *See*—
Armstrong, George C.
Ballard, Robert J.
Baudry, René A., and Heller.
Carter, John C. G.
Derr, Willard A.
Hartwig, Edward C., and Van Ness.
Hibbard, Lloyd J.
Krenke, Vincent G.
Lundahl, Walter N.
Marden, John W.
McClellan, Cyril E.
Musk, Henry A., and Hammond.
Purifoy, George R., and Barclay.
Purifoy, George R., and Jenkins.
Sterling, Robert F.
Sudia, Frank, Jr.
Wallace, James M., and Edwards.
Wynne, Richard H., Jr.

Weston Electric Instrument Corporation, assignee: *See*—
Lamb, Anthony H.

Wheeler, Benjamin F., Haddonfield, N. J., assignor to Radio Corporation of America. Frequency control system for microwave relay terminal stations. 2,653,315, Sept. 22.

Whitcomb, Keith R., and E. B. Finch, assignors to Cee-Bee Chemical Co., Inc., Los Angeles, Calif. Removing sealant from fuel tanks. 2,653,116, Sept. 22.

Whiting Corporation, assignee: *See*—
Holmes, Louis D., and Hammond.
Rice, Edgar C., and Rothenberger.
Skinner, Asa W.
Vokac, Charles W., Rothenberger, and Morey.

Whitney Blake Company, The, assignee: *See*—
Hohenstein, Walter P.

Whitson, James D., trustee, assignee: *See*—
Hensley, Alva C.

Whitten, Owen M., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Tractor and trailer brake system. 2,652,904, Sept. 22.

Wick, Robert M., Washington, D. C., and G. R. Kern, Arlington, Va. Hydraulic control for oil burner fuel supply valves. 2,652,848, Sept. 22.

Wielicki, Edward A., Philadelphia, Pa., assignor to American Viscose Corporation, Wilmington, Del. Stabilized polyheptamethyleneurea and making the same. 2,653,144, Sept. 22.

Wilder, Glenn W., Sutherlin, Oreg. Open-end wrench. 2,652,735, Sept. 22.

Wiley, Bruce F.: *See*—
McMillan, Fred L., and Wiley.

Wilkins, Edward W., Tettenhall, Wolverhampton, assignor to Wilkins & Mitchell Limited, Darlaston, England. Power press. 2,652,770, Sept. 22.

Wilkins & Mitchell Limited, assignee: *See*—
Wilkins, Edward W.

Willard, Alfred R., East Cleveland, assignor to Willard Storage Battery Company, Cleveland, Ohio. Machine for manufacturing battery plates. 2,652,617, Sept. 22.

Willard, Alfred R., East Cleveland, C. R. Glasener, Cleveland, F. C. Haak, Jr., Euclid, and C. A. Young, Cleveland Heights, assignors to Willard Storage Battery Company, Cleveland, Ohio. Assembling apparatus. 2,652,933, Sept. 22.

Willard Storage Battery Company, assignee: *See*—
Willard, Alfred R.
Willard, Alfred R., Glasener, Haak, and Young.

Willcox, Frederick P., Bethesda, Md., assignor to General Aniline & Film Corporation, New York, N. Y. Press focusing device for photographic diaphragms. 2,652,756, Sept. 22.

Willgoos, Andrew V. D., West Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn. Starting device for compressor-turbine units. 2,652,685, Sept. 22.

Williams, C. K., & Co., assignee: *See*—
Stephens, Robert A.

Williams, Everard M., and E. V. Cousy, Dayton, Ohio. Radio jamming device. 2,653,222, Sept. 22.

Williams, Paul A., Snyder, assignor to The W. & F. Manufacturing Co., Inc., Buffalo, N. Y. Molding method and apparatus. 2,652,592, Sept. 22.

Williams, Sylvester V., Titusville, Pa. High-pressure container having laminated walls. 2,652,943, Sept. 22.

Willson Products, Inc., assignee: *See*—
Matheson, James N.

Wilson, H. A., Company, The, assignee: *See*—
Guinee, Edward J.

Wilson, John H., Wichita Falls, Tex. Fluid tight rotary coupling. 2,653,041, Sept. 22.

Wilson, Julian: *See*—
Van Pelt, Dale M., Sanner, and Wilson.

Winalot Bloodstock Equipment Company, assignee: *See*—
Griffiths, Peter G. J.

Wisconsin Alumni Research Foundation, assignee: *See*—
Skoog, Folke.

Wiseman, Harlow P., Hermosa Beach, Calif. Device for testing meat tenderness. 2,652,718, Sept. 22.

Wolbarst, John, New York, N. Y. Double alarm mechanism. 2,652,682, Sept. 22.

Wolf, Ruth, New York, N. Y. Nonslip garment hanger. 2,652,957, Sept. 22.

Wolfe, Ethel F., Chicago, Ill. Cigarette or cigar rest. 2,652,838, Sept. 22.

Wood, Louvan E., Glenarm, assignor to Bendix Aviation Corporation, Baltimore, Md. Outdoor instrument shelter. 2,652,722, Sept. 22.

Woodyard, John R., Berkeley, Calif., assignor to The Sperry Corporation. High-frequency apparatus. 2,653,271, Sept. 22.

Wright, Harry, assignor to Accurate Tool and Engineering Company, San Diego, Calif. Combination vacuum and solenoid operated valve. 2,652,855, Sept. 22.

Wunsch, Rudolf, Milan, Italy. Apparatus for the concentrating of minerals by means of froth flotation. 2,652,924, Sept. 22.

Wynne, Richard H., Jr., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Etching solution and process. 2,653,085, Sept. 22.

Yellott, John I., Baltimore, Md., assignor to Bituminous Coal Research, Inc., Washington, D. C. Gas turbine power plant solid fuel feeding means. 2,652,687, Sept. 22.

Yellott, John I., New York, N. Y., assignor to Bituminous Coal Research, Inc., Washington, D. C. Pressurized combustion and ash removal system for coal-fired gas turbine power plants. 2,652,792, Sept. 22.

Youhouse, Joseph, Fairfield, assignor to Casco Products Corporation, Bridgeport, Conn. Steam flatiron. 2,652,645, Sept. 22.

Young, Charles A.: *See*—
Willard, Alfred R., Glasener, Haak, and Young.

Young, David W., Roselle, and B. M. Vanderbilt, Westfield, N. J., assignors to Standard Oil Development Company. Preparation of acyl P-amino-phenols. 2,653,158, Sept. 22.

Young, Lester C., Cleveland, Ohio, assignor to Spo, Inc. Jolt and draw foundry machine. 2,652,607, Sept. 22.

Youtz, Philip N., Yorktown Heights, N. Y. Tobacco pipe. 2,652,836, Sept. 22.

Yujuico, Pedro B., Hagerstown, Md., and C. F. U. Stoner, Waynesboro, Pa., assignors to Fairchild Engine and Airplane Corporation. Aircraft cockpit canopy. 2,652,996, Sept. 22.

Zega, Frank, Bridgeport, Conn. Mechanical golf instruction aid. 2,653,025, Sept. 22.

Zeh, Henry P.: *See*—
Kemp, Jacob D., and Zeh.

Zehren, Arthur, Lomira, Wis. Stone gatherer. 2,652,673, Sept. 22.

Zeidler, Howard M.: *See*—
Moore, Thomas E., Spangenberg, and Zeidler.

Zenith Radio Corporation, assignee: *See*—
Carnahan, Chalon W.

Zimmerman, Jerome G., West Milton, assignor to The Standard Register Company, Dayton, Ohio. Manifolding transfer and making. 2,653,110, Sept. 22.

Zimmerman, Joseph J., assignor to The Electronic Secretary, Inc., Milwaukee, Wis. Combination timing and telephone circuit controlling system. 2,653,195, Sept. 22.

Zink, Alvin J., Jr.: *See*—
Boothroyd, Harold W., and Zink.

Zowaski, Frank W., Wawayanda, N. Y. Ditching knife for wheel-type ditch diggers. 2,652,641, Sept. 22.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 22D DAY OF SEPTEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Apparatus for synthesizing facsimile signals from coded signals. C. E. Hunt, Jr. Re. 23,713, Sept. 22.

LIST OF PLANT INVENTIONS

Rose plant. R. L. Byrum. 1,217, Sept. 22.

LIST OF DESIGN INVENTIONS

Air purifier and telephone set base, Combination. D. C. Craig. 170,450, Sept. 22.
Automobile. G. Colombo. 170,448, Sept. 22.
Base for table lamps. E. Bertolozzi. 170,443–5, Sept. 22.
Bookmarker and line guide, Combined. F. J. Kremin. 170,467, Sept. 22.
Bottle. V. T. Hamman. 170,459, Sept. 22.
Bottle and holder therefor, Combined. L. L. Dujoncquoy. 170,454, Sept. 22.
Bracelet or the like. A. Katz. 170,465, Sept. 22.
Bracelet or the like. A. Philippe. 170,476, Sept. 22.
Brush or similar article, Soldering iron. P. Le Ber. 170,468, Sept. 22.
Cabinet for a heater or the like. L. H. Wilson. 170,488, Sept. 22.
Cabinet or similar article, Radio. J. Ackerman. 170,439, Sept. 22.
Casing for a wringer. A. J. Lundy. 170,470, Sept. 22.
Chair and step stool unit, Convertible. A. L. Meagher. 170,471, Sept. 22.
Churn, Power butter. H. Blanchette. 170,446, Sept. 22.
Clotheshorse. C. A. Nelson. 170,473, Sept. 22.
Copying machine, Document. E. E. White and G. J. Smith. 170,486, Sept. 22.
Decanter. R. E. Hennessy. 170,462, Sept. 22.
Dispensing unit, Portable fluid. W. W. Alsup. 170,440, Sept. 22.
Fabric or similar article, Textile. B. Rose. 170,479, Sept. 22.
Fabric or the like, Plastic. R. C. Lewis. 170,469, Sept. 22.
Flashlight. M. Schnur. 170,481, Sept. 22.
Food warmer and bun toaster, Combined. I. Sacks. 170,480, Sept. 22.
Fork or the like. M. A. Noyes. 170,474, Sept. 22.
Handbag or similar article. I. Pichel. 170,477, Sept. 22.
Handlebar grip and bell for bicycles, Combination. H. Golden. 170,457, Sept. 22.
Hanger for X-ray tubes, Ceiling mounted. R. J. Stava. 170,483, Sept. 22.
Hook, Wall. L. Guild. 170,458, Sept. 22.
Ice chopper and scraper for windshields and the like, Combination. A. K. Hauser. 170,460, Sept. 22.
Link chain for a bracelet or the like, Expansible. E. Rodriguez. 170,478, Sept. 22.
Necktie. L. D. Whitman. 170,487, Sept. 22.
Nozzle unit, Fire hose. P. Caird. 170,447, Sept. 22.
Ornament or similar article, Ear. L. Bell. 170,442, Sept. 22.
Ornament, Rotatable Christmas. W. A. Heinsel. 170,461, Sept. 22.
Plaque, Illuminable Christmas. J. Petry. 170,475, Sept. 22.
Record sheet for social security or the like data. C. J. and D. L. Cotton. 170,449, Sept. 22.
Set of chessmen. E. N. Wright. 170,489, Sept. 22.
Shoulder cord. A. E. Du Bois and E. Will. 170,453, Sept. 22.
Sock or similar article. J. F. Verreault. 170,485, Sept. 22.
Spoon or similar article. P. B. Ball. 170,441, Sept. 22.
Spoon or similar article. R. C. Gavette. 170,455, Sept. 22.
Spray head for aerosol bombs. L. B. Drell. 170,451, Sept. 22.
Spray head for aerosol bombs and the like. L. B. Drell. 170,452, Sept. 22.
Strainer, Tea bag. W. F. Taylor. 170,484, Sept. 22.
Tape cutter. I. J. Gershen. 170,456, Sept. 22.
Tool attachment for a power tool unit, Reciprocating. T. B. Keesling. 170,466, Sept. 22.
Water conditioner and filter unit. N. Monsarrat. 170,472, Sept. 22.
Wheel cover. H. M. Jenkins, Jr. 170,464, Sept. 22.
Wheel trim. H. M. Jenkins, Jr. 170,463, Sept. 22.
Wind deflector for an automobile. J. Sinko. 170,482, Sept. 22.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 22D DAY OF SEPTEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accelerometer pickup of very small size and weight. W. von Wittern. 2,653,302, Sept. 22.
Acyl P-amino-phenols, Preparation of. D. W. Young and B. M. Vanderbilt. 2,653,158, Sept. 22.
Adjustable garment hanger. R. E. Alvord. 2,652,958, Sept. 22.
Adjustable-saw carriage for folding arm radial saws. H. C. Henry. 2,652,862, Sept. 22.
Aerial target. A. M. Feltus. 2,653,026, Sept. 22.
Agitating device for photographic liquid developer. R. Sardeson, J. F. Braden, and C. E. Lee. 2,652,758, Sept. 22.
Agricultural implement having multiple sets of transversely arranged ground engaging tools, Lift type. J. A. Love. 2,652,672, Sept. 22.
Air cleaner and chaff screen, Combination. M. T. Moler. 2,652,901, Sept. 22.
Air conditioning, Method and system for. C. J. Thatcher. 2,653,012, Sept. 22.
Air distribution system. N. R. Emery and P. O. Robards. 2,652,763, Sept. 22.
Air injector. V. R. Dibble and V. R. Dibble, Jr. 2,652,973, Sept. 22.
Air traffic control system. G. B. Litchford. 2,653,314, Sept. 22.
Alarm mechanism, Double. J. Wolbarst. 2,652,682, Sept. 22.
Alginates, Manufacture of. C. W. Bonniksen. 2,653,106, Sept. 22.
Aligning device. H. S. Fox. 2,652,915, Sept. 22.
Aligning means for necktie. A. Confino. 2,652,589, Sept. 22.
Altitude control system. F. Martindell. 2,653,307, Sept. 22.
Aluminum-carbon black thickened grease compositions. R. O'Halloran. 2,653,131, Sept. 22.
Ammunition. R. T. Catlin. 2,652,776, Sept. 22.
Amplifier, High-frequency. D. H. Sloan. 2,653,273. Sept. 22.
Amplitude-discriminating circuits. E. H. Cooke-Yarborough. 2,653,231, Sept. 22.
Antenna. L. J. Chu and C. V. Robinson. 2,653,239, Sept. 22.
Antenna. L. J. Chu. 2,653,241, Sept. 22.
Antenna direction indicator. R. E. Clapp. 2,653,313, Sept. 22.
Antenna, Dual frequency. K. T. Bainbridge. 2,653,238. Sept. 22.
Antenna, Radar. O. E. Szekely. 2,653,240, Sept. 22.
Antenna tuning control for radio transmitters. H. A. Musk and J. G. Hammond. 2,653,223, Sept. 22.
Antiinertia mechanism for sliding doors. W. Armstrong. 2,653,022, Sept. 22.
Antiskid tread surface. H. Eisner. 2,652,876, Sept. 22.
Anvil for attachment to electrode structures of electrical precipitators. W. F. Hull. 2,652,900, Sept. 22.
Apparatus and process for treating light-sensitive materials with liquid. W. Bornemann. 2,652,759, Sept. 22.
Apparatus for automatically making blood sugar screening tests. A. W. Wanzer and F. E. Kaining. 2,653,083, Sept. 22.
Apparatus for coating tablets, pills, or other small objects. A. J. D'Angelo. 2,652,805. Sept. 22.
Apparatus for controlling hoists and the like. E. C. Rice and G. M. Rothenberger. 2,653,291, Sept. 22.
Apparatus for detecting leaks in vacuum systems. J. Blears and J. H. Leck. 2,652,716, Sept. 22.
Apparatus for dicing decored cylinders of pineapple. R. M. Botley and G. Guigas. 2,652,871, Sept. 22.
Apparatus for displaying signs. L. J. Helms, E. R. Easter, and E. E. Reinig. 2,652,650, Sept. 22.
Apparatus for electrical well logging. F. L. McMillan, Jr. 2,653,294, Sept. 22.
Apparatus for extracting juice from citrus fruits. R. D. Wehr. 2,652,769, Sept. 22.
Apparatus for feeding auxiliary liquids to internal-combustion engines. C. B. Pierce. 2,652,818, Sept. 22.
Apparatus for measuring moisture content of a traveling layer of material. B. S. McKinley. 2,653,298, Sept. 22.
Apparatus for measuring pressures and pressure variations. C. O. Carlson. 2,653,295, Sept. 22.
Apparatus for orienting tools. H. P. Aston. 2,653,007, Sept. 22.
Apparatus for preparing seedbeds. C. G. Card. 2,652,760, Sept. 22.
Apparatus for printing designs on cylindrical bodies. J. V. Fernández. 2,652,771, Sept. 22.
Apparatus for recovering oysters. S. G. Harris. 2,652,588, Sept. 22.
Apparatus for riveting laminated structures for electrical apparatus. E. C. Ballman. 2,653,208, Sept. 22.
Apparatus for spreading manure. W. E. Templeton. 2,653,028, Sept. 22.
Apparatus for testing the fuel consumption of motor vehicles. D. Bracci. 2,652,719, Sept. 22.
Apparatus for the concentrating of minerals by means of froth floatation. R. Wunsch. 2,652,924, Sept. 22.
Apparatus for the continuous milling of plastics. R. Sullivan, A. Y. Glendinning, and L. M. Read. 2,652,590, Sept. 22.
Arbor Locking. F. K. Carlson. 2,652,738, Sept. 22.
Armchair, Folding. J. G. Barmess. 2,652,884, Sept. 22.
Aromatic hydrocarbons, Preparation of. W. H. Davis. 2,653,175, Sept. 22.
Aromatics from petroleum, Production of. L. H. Beckberger. 2,653,176, Sept. 22.
Arrangement for providing corrections in ground-position-indicating systems. B. Chance. 2,652,979, Sept. 22.
Arrangement in spinning regulators. A. Jansö and A. Sand. 2,652,681, Sept. 22.
Article cleaning machine. A. Kurt. 2,652,841, Sept. 22.
Article handling apparatus. T. R. Hughes. 2,652,931, Sept. 22.
Artificial hand. J. Sargeson. 2,652,570, Sept. 22.
Ash receiver. J. Visser. 2,652,944, Sept. 22.
Ash tray, Self-dumping. G. J. Conrad. 2,652,837, Sept. 22.
Assembling apparatus. A. R. Willard, C. R. Glaesner, F. C. Haak, Jr., and C. A. Young. 2,652,933, Sept. 22.
Attaching clinch nuts to sheet metal members, Method of and apparatus for. L. Muchy. 2,652,942, Sept. 22.
Attaching frame for seat covers. A. J. Richards. 2,652,886, Sept. 22.
Attaching storm shoes to garments, Means for. H. Fisher. 2,652,567, Sept. 22.
Automatic chain conveyer type poultry feeder. P. E. Wagner. 2,652,808, Sept. 22.
Automatic gain control circuit. C. E. Ingalls and N. B. Nichols. 2,653,229, Sept. 22.
Awning. W. H. Corkrean. 2,652,604, Sept. 22.
Axle load equalizing assembly. V. L. Frazier. 2,653,034, Sept. 22.
Backflow preventing unit for dishwashing apparatus. C. J. Manville. 2,652,850, Sept. 22.
Bag: *See*—
Paper bag.
Bagmaking machine. T. W. Keller and C. W. Garvin. 2,652,879, Sept. 22.
Bag support and motor shield for suction cleaners. R. E. Sheahan. 2,652,902, Sept. 22.
Ball bearing. L. R. Helm. 2,653,064, Sept. 22.
Ball plug setting tool. E. T. Gilda. 2,652,733, Sept. 22.
Barrel, reflector base, and associated parts for electric lanterns. J. B. Schilling and F. F. Jones. 2,653,218, Sept. 22.
Battery and making the same, Primary. J. H. Baldwin. 2,653,179, Sept. 22.
Battery and preventing its self-discharge, Alkaline storage. H. W. G. Hignett and P. Hersch. 2,653,180, Sept. 22.
Battery charger. H. M. Huge. 2,653,293, Sept. 22.
Beach tent and umbrella, Combination portable. D. O'Neill and A. Ernst. 2,652,845, Sept. 22.
Bearing: *See*—
Ball bearing.
Bearing. E. Sperisen. 2,653,062, Sept. 22.
Bearing cleaner. C. D. Schuchman and R. S. France. 2,652,843, Sept. 22.
Bed, Convertible. L. F. Clerc. 2,652,573, Sept. 22.
Benzothiazole derivatives and manufacture. N. Steiger and O. Keller. 2,653,154, Sept. 22.
Berth, Folding. A. A. Hopeman and J. A. Bohnsack. 2,652,572, Sept. 22.
Bimetallic fastener. H. F. Fruth. 2,652,740, Sept. 22.
Bit: *See*—
Rock drill bit.
Bit holder. P. G. J. Griffiths. 2,652,671, Sept. 22.
Blast cleaning. F. Newell. 2,652,662, Sept. 22.
Blind rivet with clincher. M. C. Ketchum and J. O. Huffman. 2,652,741, Sept. 22.
Blind stitch attachment for sewing machines. H. H. Russell. 2,652,796, Sept. 22.

Board: *See*—
Ironing board.
Boiler: *See*—
Water tube boiler.
Boring mill attachment, Vertical. M. Turchan. 2,652,731, Sept. 22.
Bottle carrier. H. V. Bolding. 2,652,968, Sept. 22.
Bottle sealing, Automatic. J. L. Pomeroy. 2,652,963, Sept. 22.
Bracket. N. E. Passman. 2,653,002. Sept. 22.
Bracket and ring, Curtain rod. E. F. Ramsberger. 2,652,586, Sept. 22.
Brake: *See*—
Tractor hand brake.
Brake coupling assembly, Electric motor. O. C. Walley and R. L. Anderson. 2,653,256, Sept. 22.
Breakwater construction. D. H. Hayden. 2,652,692, Sept. 22.
Brooms, Making. B. Montero and R. J. Palmer. 2,653,036, Sept. 22.
Brush. E. A. Neugass. 2,652,580, Sept. 22.
Brush having removable brush units for cleaning Venetian blinds, Suction. A. C. Tomanica. 2,652,583, Sept. 22.
Bucket, Earth digging. E. H. Kluckhohn. 2,652,639, Sept. 22.
Building frame. L. Rodda and H. M. Ward. 2,652,599, Sept. 22.
Bumper and retainer, Combination. E. J. Herbenar. 2,652,585, Sept. 22.
Burn and wound dressing. H. Freiberger. 2,652,829, Sept. 22.
Burner: *See*—
Internally fired gas burner.
Burner and igniter structure, G. W. Allen and V. N. Tramontini. 2,652,888, Sept. 22.
Cabinet structure, Disappearing. C. B. Lundstrom. 2,653,071, Sept. 22.
Calk assembly, Shoe. J. H. Shoemaker. 2,652,638, Sept. 22.
Calk gun and cartridge adapter. S. Crewe. 2,652,955, Sept. 22.
Can body maker. E. Laxo. 2,652,801, Sept. 22.
Canopy, Aircraft cockpit. P. S. Yujuico and C. F. U. Stoner. 2,652,996, Sept. 22.
Capsule, High altitude pressure responsive. D. F. Murphy. 2,652,859, Sept. 22.
Card index file. L. Mayers. 2,652,833, Sept. 22.
Cardholder. M. Suciu. 2,652,647, Sept. 22.
Carrier: *See*—
Bottle carrier.
Carrier-free radioactive phosphorus values, Preaparation of. W. E. Cohn. 2,653,076, Sept. 22.
Carton. H. A. Pfaff. 2,652,969, Sept. 22.
Carton, Folded-blank. W. C. George. 2,652,970, Sept. 22.
Carton handling and loading apparatus. R. J. Fahey and M. Burger. 2,652,960, Sept. 22.
Cartridge filling apparatus. W. A. Sherbondy. 2,652,961, Sept. 22.
Case: *See*—
Key case.
Casting reel. D. B. Ferguson. 2,652,990, Sept. 22.
Cathode-ray deflection circuit. H. W. Babcock. 2,653,274, Sept. 22.
Cathode structure, Directly heated. B. D. Kumpfer. 2,653,268, Sept. 22.
Cellulose ether composition. N. B. Oakley. 2,653,108, Sept. 22.
Centrifugally balanced fluid clutch. C. E. Schou. 2,652,913, Sept. 22.
Centrifugal countercurrent exchange device. N. J. Angelo. 2,652,975, Sept. 22.
Cereal and making same, Quick-cooking. C. R. Carman and J. E. Allison. 2,653,099, Sept. 22.
Chain clip. T. M. Cruce. 2,652,610, Sept. 22.
Chair: *See*—
Folding chair.
Chip flushing means for beds of machine tools. J. R. Longstreet. 2,652,737, Sept. 22.
Chlorine dioxide, Preparation of. E. Wagner. 2,653,079, Sept. 22.
Chloropentenyl ethers. W. D. Niederhauser. 2,653,173, Sept. 22.
Cigarette or cigar rest. E. F. Wolfe. 2,652,838, Sept. 22.
Cigarette paper. M. O. Schur and R. M. Levy. 2,652,834—5, Sept. 22.
Circuit: *See*—
Automatic gain.
Control circuit.
Cathode-ray deflection circuit.
Electrical comparator circuit.
Electronic voltage regulator circuit.
Frequency dividing circuit.
Nonlinear resonant flip-flop circuit.
Pulse lengthening circuit.
Selective circuit.
Circuit breaker with compensation provision for ambient temperature and meachnical shock, Automatic. T. M. Cole. 2,653,202, Sept. 22.
Circuit controlling system, Combination timing and telephone. J. J. Zimmermann. 2,653,195, Sept. 22.
Circuit testing device, Electric. M. Mohylowski. 2,653,297, Sept. 22.
Cleaner: *See*—
Bearing cleaner.
Conveyer belt cleaner.
Cleaning device, Air. J. W. Lofton and M. T. Archer. 2,653,016, Sept. 22.
Cleanout gate valve. G. M. Beatty. 2,652,946, Sept. 22.
Clip: *See*—
Chain clip.
Spring supporting clip.
Clock apparatus, Direct reading projection. F. J. Quinn. 2,652,745, Sept. 22.
Clock system, Master. L. J. Stern. 2,652,683, Sept. 22.
Clutch: *See*—
Centrifugally balanced fluid clutch.
Clutch and fan drive, Thermostatically controlled. A. Y. Dodge. 2,652,816, Sept. 22.
Clutch assembly. V. S. D. Bernardo. 2,652,912, Sept. 22.
Coaster. J. M. Keegan. 2,652,703, Sept. 22.
Coating device. A. Sprung. 2,652,774, Sept. 22.
Coaxial resonant line coupling means. T. E. Moore, K. R. Spangenberg, and H. M. Zeidler. 2,653,301, Sept. 22.
Coil spring compressing device, W. B. Perkins. 2,652,625, Sept. 22.
Cold formed bimetallic shape, Making a. W. L. Keene. 2,653,117, Sept. 22.
Collapsible rack. S. B. Christenson. 2,652,930, Sept. 22.
Color control grid structure for cathode-ray tubes. E. O. Lawrence. 2,653,263, Sept. 22.
Combination vacuum and solenoid operated valve. H. Wright. 2,652,855, Sept. 22.
Combustion engine power control apparatus. A. B. Chudyk and R. J. Kutzler. 2,652,896, Sept. 22.
Compensating for grinding wheel wear, Method and apparatus for. E. C. Taylor. 2,652,663, Sept. 22.
Composite metal, Making. R. E. Kinkead. 2,653,212, Sept. 22.
Composite metal, Producing. E. J. Guinee. 2,652,624, Sept. 22.
Compression molding plastic materials. J. R. Sucher. 2,652,597, Sept. 22.
Computer. O. C. Levy. 2,652,977, Sept. 22.
Concrete block handling tool. L. F. Looze. 2,652,715, Sept. 22.
Condensation products of bis-aminotriazines. P. L. de Benneville and V. C. Meunier. 2,653,143, Sept. 22.
Connecting bracelets to wrist watches, Means for. L. E. Valcourt. 2,652,612, Sept. 22.
Connection for the drop sides of cribs, Slidable. V. J. Bukolt. 2,652,575, Sept. 22.
Connector: *See*—
Detachable electrical connector.
Container: *See*—
Sheet metal container.
Container. L. L. Dyer. 2,653,038, Sept. 22.
Container for packaging toruslike objects and articles. E. F. Schweich. 2,652,922, Sept. 22.
Container having laminated walls, High-pressure. S. V. Williams. 2,652,943, Sept. 22.
Continuous process for separation of wax-like constituents from oil. H. A. Kirsch, W. E. Skelton, and W. V. Overbaugh. 2,653,123, Sept. 22.
Control apparatus. R. U. Dunn. 2,652,846, Sept. 22.
Control apparatus. R. J. Ehret and W. Moore, Jr. 2,653,279, Sept. 22.
Control device. J. M. Bowman. 2,653,262, Sept. 22.
Control for multimotor drives. C. P. Feldhausen. 2,653,283, Sept. 22.
Control system for plurality of liquid dispensing devices. J. B. Moore and R. R. Trexler. 2,652,948, Sept. 22.
Control valve. J. W. Overbeke 2,653,003, Sept. 22.
Conveyer belt cleaner. P. E. Bowman. 2,652,920, Sept. 22.
Cooker, Continuous. G. R. Greenbank. 2,653,084, Sept. 22.
Cooling attachment for fans. E. K. Frost. 2,653,017, Sept. 22.
Copolymers and lubricants containing the same. W. E. Catlin. 2,653,133, Sept. 22.
Copolymers in the form of discrete particles, Producing. W. P. Hohenstein. 2,653,145, Sept. 22.
Corn and making same, Puffed. J. M. Baer. 2,653,097, Sept. 22.
Corn product and making the same, Puffed. C. R. Carman. 2,653,104, Sept. 22.
Cotton-picking machine. M. D. Rust. 2,652,676, Sept. 22.
Coupling: *See*—
Fluid tight rotary coupling.
Pipe coupling.
Coupling and fastening means for tool shanks and handles. E. L. Van Guilder. 2,653,030, Sept. 22.
Coupling having adjustable overflow weir determining the extent of fill thereof, Rotary hydraulic. R. M. Nelden. 2,652,689, Sept. 22.
Cover for toilet tanks. E. Puste. 2,652,875, Sept. 22.
Covering for toilet flush tanks. A. E. Armstrong. 2,652,874, Sept. 22.

Crankshaft, piston, and connecting rod for internal-combustion engines. E. C. Kiekhaefer. 2,652,728, Sept. 22.
Crib and dressing table, Combination child's. J. A. Toomey. 2,652,574, Sept. 22.
Crossover bridge and operating mechanism. A. W. Skinner. 2,652,783, Sept. 22.
Crush dressing mechanism. E. V. Flanders and C. H. Drury. 2,652,661, Sept. 22.
Cup, Disposable drinking. J. K. McFarland and W. C. Neiss. 2,652,971, Sept. 22.
Cup, Heat dispersing drinking. T. J. Longhurst. 2,652,701, Sept. 22.
Cupriferous disazo-dyestuffs. H. Riat. 2,653,149, Sept. 22.
Cupriferous trisazo dyestuffs. F. Kehrer. 2,653,148, Sept. 22.
Curtain rod guide, Wedge type. I. B. Kubiliunas. 2,652,959, Sept. 22.
Cutter: *See*—
Glass cutter.
Cyanine dye and making same. J. H. Dessauer and M. A. Insalaco. 2,653,152, Sept. 22.
Cyclohexene-4-carboxylic acids, Preparation of. J. E. Jansen and F. X. Werber. 2,653,167, Sept. 22.
Damper for long shafts, Vibration. C. M. Seibel. 2,652,700, Sept. 22.
Defrosting system for heat exchange devices. L. C. Pellegrini. 2,652,697, Sept. 22.
Derivatives of marrianolic acid, Preparing. K. Miescher and G. Anner. 2,653,164, Sept. 22.
Detachable electrical connector. H. M. Wadsworth. 2,653,304, Sept. 22.
Determining total flow in a borehole, Method of and apparatus for. R. G. Piety. 2,652,720, Sept. 22.
Device comprising an electric discharge tube having a liquid cathode. T. Douma. 2,653,278, Sept. 22.
Device for adjusting the height of a ring of fluid, particularly water, in hydrodynamic brakes and such like. U. Ranzi. 2,652,853, Sept. 22.
Device for administering gases. R. H. Koza and W. M. Stockam. 2,652,830, Sept. 22.
Device for cleaning the grooves and lips on can openings and lids. C. McCroba. 2,652,582, Sept. 22.
Device for feeding a continuous web. A. O. Russell, M. G. Jones, and W. M. Watts. 2,653,023, Sept. 22.
Device for feeding, cutting, and stacking continuous webs or bands. M. G. Jones. 2,653,024, Sept. 22.
Device for forming and supplying gum sticks to a wrapping machine. L. W. Schoppee. 2,652,788, Sept. 22.
Device for handling of wet sticky pastes. F. Aagaard and H. G. Weiss. 2,652,929, Sept. 22.
Device for measuring absolute pressure. R. D. Richardson and G. B. Bailey. 2,652,727, Sept. 22.
Device for measuring and discharging fluids delivered thereto under pressure. D. D. Gray. 2,652,953, Sept. 22.
Device for mechanically sizing the slots of magnetic cores. L. A. Watts. 2,652,619, Sept. 22.
Device for stabilising rotary-wing aircraft. P. E. Renoux. 2,652,898, Sept. 22.
Device for testing meat tenderness. H. P. Wiseman. 2,652,718, Sept. 22.
Device for the transportation and storage of live fish. G. N. Washburn. 2,652,807, Sept. 22.
Dial ornamentation. G. A. Lasko. 2,652,652, Sept 22.
Die set leader bearings with variable clearance. K. Janiszewski. 2,652,893, Sept. 22.
Dipper, Excavating. A. H. Brolin, H. A. W. Kamholtz, and B. E. Blanchard. 2,652,940, Sept. 22.
Direct production of steel from oxides of iron. R. D. Pike. 2,653,088, Sept. 22.
Dishwasher. L. E. Van Hise. 2,652,844, Sept. 22.
Disk relay, Thermostatic snap. G. C. Armstrong. 2,653,051, Sept. 22.
Dispenser: *See*—
Liquid soap dispenser.
Dispenser. A. G. Goodnight. 2,653,068, Sept. 22.
Dispenser with spring pressed follower. W. K. Martin. 2,652,949, Sept. 22.
Dispensing and mixing valve. F. and R. Welty. 2,653,055, Sept. 22.
Display attachment for electric light bulbs. D. C. Ober. 2,652,653, Sept. 22.
Ditching knife for wheel-type ditch diggers. F. W. Zowaski. 2,652,641, Sept. 22.
Dock, Transportable. F. J. Melges. 2,652,694, Sept. 22.
Dodecenylcyclohexylamines. R. S. Cook and W. E. Craig. 2,653,170, Sept. 22.
Door closer. B. N. Carlson. 2,653,043, Sept. 22.
Door construction, Refrigerator. G. W. and R. E. Slopa. 2,652,601, Sept. 22.
Door supporting hardware, Garage. R. G. Johannsen. 2,652,584, Sept. 22.
Dough divider. A. E. Hein and W. H. Klausing. 2,652,790, Sept. 22.
Drafting table. J. F. Joy. 2,652,657, Sept. 22.
Drain control mechanism for washing apparatus. E. S. Stoddard. 2,652,854, Sept. 22.
Drawbar, Harrow. B. Lee. 2,652,674, Sept. 22.
Drawer construction for reading chairs. L. J. FitzGerald. 2,652,887, Sept. 22.
Drawer, Retainer bearing. L. Press. 2,653,072, Sept. 22.
Drive for propellers. P. P. Newcomb. 2,652,730, Sept. 22.
Drive for winding mechanism. J. E. Godeck. 2,652,910, Sept. 22.
Drive system for conveyers. T. B. Jochem. 2,652,919, Sept. 22.
Drop pit apparatus. L. D. Holmes and R. S. Hammond. 2,652,784, Sept. 22.
Drum sander. T. Longbotham. 2,652,666, Sept. 22.
Dual voltage regulator. M. Petroff. 2,653,251, Sept. 22.
Duct seal, Demountable. G. R. Aldrich and K. R. Bragg. 2,653,042, Sept. 22.
Dusting device, Livestock. A. Paul, Jr. 2,652,810, Sept. 22.
Dyeing furs. P. Poser. 2,653,075, Sept. 22.
Dyeing of polyacrylonitrile fibers. R. H. Blaker. 2,653,074, Sept. 22.
Electric battery lamp. L. A. Seiss. 2,653,215, Sept. 22.
Electric dictation installation. J. E. Godeck. 2,653,190, Sept. 22.
Electric door lock. W. Pinderhughes. 2,653,045, Sept. 22.
Electric motor follow-up system for measuring. H. E. Darling. 2,653,282, Sept. 22.
Electric test bottle bath. G. E. Shaw. 2,653,214, Sept. 22.
Electrical apparatus. J. C. G. Carter. 2,653,233, Sept. 22.
Electrical comparator circuit. J. W. Gray. 2,653,285, Sept. 22.
Electrical conductor lead for commutators. R. K. Allen. 2,653,258, Sept. 22.
Electrical system. F. J. Hooven. 2,653,290, Sept. 22.
Electromagnetic centrifugal pump. F. E. Crever. 2,652,778, Sept. 22.
Electromagnetic transducer head. M. Camras. 2,653,189, Sept. 22.
Electromagnetic wave transmission system. C. A. Bays. 2,653,220, Sept. 22.
Electron discharge device anode. R. C. Scott. 2,653,259, Sept. 22.
Electronic voltage regulator circuit. D. C. Cook and C. M. Gilbert. 2,653,235, Sept. 22.
Electrostatic capacitor. F. Kopinski. 2,653,281, Sept. 22.
Elevation of granular solids. F. W. Bowen. 2,653,058, Sept. 22.
Elevtaor control, Automatic. J. H. Borden and W. A. Nikazy. 2,652,903, Sept. 22.
Elongation indicator. J. E. Micksch. 2,652,631, Sept. 22.
Engine: *See*—
Two-stroke cycle internal-combustion engine.
Envelope treating apparatus, particularly glass envelopes for cathode-ray tubes. M. L. Hayes. 2,652,842, Sept. 22.
Equalizing device for air current in air blast circuit breakers. H. Forwald. 2,653,204, Sept. 22.
Escapement mechanism for typewriters and the like. S. Khalil. 2,652,917, Sept. 22.
Ester resins for varnishes and inks using monomeric phenolic ethers of aliphatic polyhydroxy alcohols. W. P. Cody and E. L. Clark. 2,653,142, Sept. 22.
Etching solution and process. R. H. Wynne, Jr. 2,653,085, Sept. 22.
Explosion-energized source of hydraulic pressure fluid. C. E. Deardorff and J. B. Gunn. 2,652,781, Sept. 22.
Extraction tower. E. Langen. 2,653,114, Sept. 22.
Eyeglasses frame with detachably mounted lenses. R. R. Shanks. 2,652,746, Sept. 22.
Eyeglasses frame with spring biased temple arms. Le R. R. Maleck. 2,652,747, Sept. 22.
Fabricating metallic members having portions of different widths. W. S. Sutowski. 2,652,620, Sept. 22.
Fan, Electric. M. G. Fettel. 2,652,974, Sept. 22.
Farina and making same, Puffed. J. M. Baer. 2,653,094, Sept. 22.
Farina and making same, Quick-cooking. C. R. Carman and J. E. Allison. 2,653,101, Sept. 22.
Fastener. *See*—
Bimetallic fastener.
Separable slide fastener.
Gate fastener.
Fastening device for bubble cap assemblies. J. P. Dunn. 2,653,018, Sept. 22.
Faucet for dispensing carbonated beverages. F. and R. D. Welty. 2,652,856, Sept. 22.
Feeder: *See*—
Automatic chain conveyer
Variable pitch feeder.
type poultry feeder.
Feeding round metal stock such as bars and rods to straightening or reeling machines, Means for. A. Travis. 2,652,877, Sept. 22.
Ferric oxide compositions of polishing grade, Producing. R. A. Stephens. 2,653,081, Sept. 22.
Ferric oxide compositions of polishing rouge grade and the product thereof, Producing. R. A. Stephens. 2,653,080, Sept. 22.
Filament emission electrode and minimising filament stresses therein. L. R. McIntosh. 2,653,267, Sept. 22.
Filler box for cushion filling machines. H. A. Ferrier. 2,652,962, Sept. 22.
Filter: *See*—
Rotary drum filter.
Filter medium for rotary drum filters. T. R. Komline. 2,652,927, Sept. 22.

Fire extinguishing composition of CBr_2F_2 or CF_2BrCF_2Br containing CF_4 as a propellant. B. J. Eiseman, Jr. 2,653,130, Sept. 22.
Fish holder. D. A. Novak. 2,653,048, Sept. 22.
Fishing pole holder. W. P. Lohmar. 2,652,999, Sept. 22.
Fishing reel. Å. E. Murvall. 2,652,991, Sept. 22.
Fishing rod tip. C. E. Bahn. 2,652,654, Sept. 22.
Flashlight, Explosive. G. H. Messerly and A. W. Campbell. 2,653,073, Sept. 22.
Flatiron, Steam. J. Youhouse. 2,652,645, Sept. 22.
Flatware package. T. W. Foster. 2,652,921, Sept. 22.
Flavoring device. J. L. Risco. 2,652,765, Sept. 22.
Flow control apparatus for bulk products. R. B. Dodds. 2,652,984, Sept. 22.
Flowmeter, Thermal. F. L. McMillan and B. F. Wiley. 2,652,721, Sept. 22.
Fluid pressure operated gun. E. R. Fitch. 2,652,821, Sept. 22.
Fluid tight rotary coupling. J. H. Wilson. 2,653,041, Sept. 22.
Flying controls for aircraft. A. E. Swain and F. H. Robertson. 2,652,995, Sept. 22.
Flywheel construction, Fluid. W. B. Herndon, R. F. Beck, and W. L. Tuschak. 2,652,782, Sept. 22.
Focusing apparatus, Optical image. C. R. Croy. 2,652,748, Sept. 22.
Focusing device for photographic diaphragms, Press. F. P. Willcox. 2,652,756, Sept. 22.
Folding chair. W. Kotler. 2,652,882, Sept. 22.
Folding table leg lock. H. N. Anderson. 2,653,066, Sept. 22.
Food products and preparing the same, Dietetically sweetened. J. B. Gordon. 2,653,105, Sept. 22.
4-N-substituted-2-ketopiperazines. P. L. de Benneville. 2,653,153, Sept. 22.
Fractional separation of oil with a complexing agent such as urea in the presence of a solvent liquid. G. B. Arnold, H. V. Hess, W. E. Skelton, and W. V. Overbaugh. 2,653,122, Sept. 22.
Frame: *See*—
Building frame.
Framing square. F. W. Prucker, Jr. 2,652,629, Sept. 22.
Frequency control system for microwave relay terminal stations. B. F. Wheeler. 2,653,315, Sept. 22.
Frequency converter system. B. S. Vilkomerson. 2,653,224, Sept. 22.
Frequency dividing circuit. J. K. Phelan. 2,653,236, Sept. 22.
Frying apparatus. K. L. Childs. 2,652,767, Sept. 22.
Fuel system for aircraft propulsion means. J. Johnson. 2,652,686, Sept. 22.
Fumaryl chloride, Preparing. S. M. Spatz. 2,653,168, Sept. 22.
Furnace: *See*—
Internal air chamber air-heating furnace.
Fuse, Current-limiting. F. J. Kozacka. 2,653,203, Sept. 22.
Fuse, Hydrostatic tail. R. L. Graumann. 2,652,777, Sept. 22.
Fused reduced titania-zirconia product and method. W. B. Blumenthal. 2,653,107, Sept. 22.
Gain control system, Automatic. L. J. Mattingly. 2,653,226, Sept. 22.
Gain measuring device. R. C. Allen and J. Millman. 2,653,310, Sept. 22.
Game apparatus for simulating a roller derby. R. F. Barash. 2,653,027, Sept. 22.
Game, Quiz card. E. R. Conger. 2,652,635, Sept. 22.
Garment, Foundation. L. O. Allen. 2,652,566, Sept. 22.
Gas discharge device. W. W. Watrous, Jr. 2,653,261, Sept. 22.
Gas-filled grid controlled electronic tube. A. W. Coolidge, Jr. 2,653,265, Sept. 22.
Gas-producing nondetonating composition. J. Taylor and A. C. Hutchison. 2,653,086, Sept. 22.
Gas turbine power plant solid fuel feeding means. J. I. Yellott. 2,652,687, Sept. 22.
Gate fastener. R. J. Vickers. 2,653,044, Sept. 22.
Gathering reel. H. Ramacher. 2,652,678, Sept. 22.
Gauge: *See*—
X-ray thickness gauge.
Gauge. O. A. Fuller. 2,652,632, Sept. 22.
Gauge means for fitting screens to card cylinders. O. S. Elliott. 2,652,633, Sept. 22.
Generator: *See*—
Square wave generator.
Ultrahigh-frequency generator.
Gentisyl p-aminosalicylates and preparing same. R. M. Jacob. 2,653,163, Sept. 22.
Glass cutter. A. T. Fletcher. 2,652,659, Sept. 22.
Glass strand reinforced paper. H. C. Crandall. 2,653,090, Sept. 22.
Golf instruction aid, Mechanical. F. Zega. 2,653,025, Sept. 22.
Grain cutting and windrow forming implement. J. L. Hughes and A. R. Hyatt. 2,652,675, Sept. 22.
Graphite, Production of fine. D. Gardner. 2,653,082, Sept. 22.
Grill, Portable double bacon. W. F. Cralle. 2,652,766, Sept. 22.
Grinding machine with optical comparator, Operator-controlled. J. A. Allan and F. C. Savage. 2,652,664, Sept. 22.
Gripping device. D. L. Wassbem. 2,652,734, Sept. 22.
Hair curler. J. G. Iannes and M. F. Bonomo. 2,652,840, Sept. 22.
Hair-waving apparatus. J. Leclabart. 2,652,839, Sept. 22.
Hammer for swaging steel, Power. H. P. Bechè. 2,652,811, Sept. 22.
Handle: *See*—
Luggage handle. Wrench extension handle.
Tool handle.
Handle for luggage and the like. R. Fuller. 2,652,908, Sept. 22.
Handle with outlet and switch for portable lamps. R. Popp. 2,653,219, Sept. 22.
Hangar structure, Mobile airplane. J. L. Mitchell. 2,652,906, Sept. 22.
Hanger: *See*—
Adjustable garment hanger. Nonslip garment hanger.
Hanger. E. W. Miller. 2,652,998, Sept. 22.
Harvester, Berry. P. Names. 2,652,923, Sept. 22.
Harvester-thresher frame structure. N. R. Krause and S. C. Heth. 2,652,677, Sept. 22.
Hatch construction for railway cars. W. H. Keleher. 2,652,787, Sept. 22.
Headrest, Creeper. H. W. Clark. 2,652,576, Sept. 22.
Headset for supporting a telephone. J. F. Anderson. 2,653,193, Sept. 22.
Heart-lung apparatus. A. E. Chesler. 2,652,831, Sept. 22.
Heat stabilized cellulose yarn. W. E. Roseveare. 2,653,112, Sept. 22.
Heaters, Making electric. A. P. Charbonneau. 2,652,622, Sept. 22.
High-frequency apparatus. J. R. Woodyard. 2,653,271, Sept. 22.
High-frequency energy interchange device. R. Kompfner. 2,653,270, Sept. 22.
Hinge for soda fountain lids, Sanitary. H. S. Petersen. 2,652,587, Sept. 22.
Hog dropper device. L. R. Spooner. 2,652,589, Sept. 22.
Hoist, Dump. D. M. Van Pelt, L. W. Sanner, and J. Wilson. 2,653,052, Sept. 22.
Hold-down slip assembly for well packers. C. C. Brown and F. L. Scott, Jr. 2,652,894, Sept. 22.
Holder: *See*—
Bit holder. Necktie holder.
Fish holder. Needle holder.
Fishing pole holder. Projection lamp holder.
Miniature tube holder.
Holder and dispenser for collapsible tubes. F. A. Major. 2,652,950, Sept. 22.
Hominy and making same, Quick-cooking. C. R. Carman and J. E. Allison. 2,653,103, Sept. 22.
Hydraulic control for oil burner fuel supply valves. R. M. Wick and G. R. Kern. 2,652,848, Sept. 22.
Hydraulic-electric control system for tups for drop forging. G. Hartemann. 2,652,691, Sept. 22.
Hydraulic-electrical apparatus for automatically regulating the position of direct arc electric furnace electrodes. C. W. Vokac, G. M. Rothenberger, and W. A. Morey. 2,653,269, Sept. 22.
Hydraulic pressure booster. C. E. Adams. 2,652,780, Sept. 22.
Hydraulic transmission. L. E. Somers. 2,652,911, Sept. 22.
Incinerator, Electrically operated. W. F. Comstock. 2,653,213, Sept. 22.
Indicating device for machine tools. M. Pégard. 2,652,804, Sept. 22.
Indicator: *See*—
Antenna direction indicator. Thermal air-speed indicator.
Elongation indicator.
Indicator and control device. R. C. Siebert. 2,652,891, Sept. 22.
Indicator apparatus for radio object locating systems. L. J. Haworth. 2,653,312, Sept. 22.
Induction of bud formation in plant tissues. F. Skoog. 2,653,087, Sept. 22.
Industrial models and fixtures, Making. S. P. Kish. 2,652,595, Sept. 22.
Inhibition of phosphoric acid corrosion. J. D. Kemp and H. P. Zeh. 2,653,177, Sept. 22.
In-place expanded cellular resinous bodies and producing them from phenol-aldehyde resins with the aid of a peroxide. R. F. Sterling. 2,653,139, Sept. 22.
Installation for the collection, treatment, and distribution of water. R. Nebolsine. 2,653,129, Sept. 22.
Instrument, Range shifting. A. Allen. 2,653,308, Sept. 22.
Instrument, Surveying. R. K. Vickery. 2,652,627, Sept. 22.
Integrator mechanism for line sectionalizers. J. M. Wallace and A. W. Edwards. 2,653,201, Sept. 22.
Intermeshing sectional matting. E. E. Smith. 2,652,753, Sept. 22.
Internal air chamber air-heating furnace. W. E. and R. A. Longworth. 2,652,823, Sept. 22.
Internally fired gas burner. C. W. Morck, Jr., and T. Koch. 2,652,890, Sept. 22.
Involute checking fixture and tailstock mounting therefor. J. L. Jessup and H. H. Gotberg. 2,652,665, Sept. 22.
Ironing board. J. C. Cave, Jr. 2,652,646, Sept. 22.
Ironing machine, Flatwork. E. J. Howlett. 2,652,644, Sept. 22.
Jaw crusher with opposed jaws driven by unbalanced weights. G. Linke. 2,652,985, Sept. 22.

Joint: *See*—
Wear resistant tool joint.
Jolt and draw foundry machine. L. C. Young. 2,652,607, Sept. 22.
Key case. J. H. Hoag. 2,652,712, Sept. 22.
Kneepad for wear. K. B. W. MacLellan. 2,652,565, Sept. 22.
Knife, Multisection veneer. C. Goodman and C. T. Miller. 2,652,869, Sept. 22.
Knitting machine. R. H. Roughsedge and H. G. Lustig. 2,652,704, Sept. 22.
Knockdown reversible hollow metal doorframe. K. B. Miller. 2,652,907, Sept. 22.
Laminated sheets of glass, Producing. F. W. A. Kurz. 2,652,660, Sept. 22.
Lamp: *See*—
Electric battery lamp.
Lamp for vehicles, Portable. J. A. Padjen. 2,653,001, Sept. 22.
Latch casing, Tubular. A. Erkkila. 2,653,046, Sept. 22.
Leash, Animal releasing. H. G. Foster. 2,652,809, Sept. 22.
Lettuce pack. F. H. McCann and W. J. Schwertfeger. 2,652,696, Sept. 22.
Level and square, Combined. J. G. Jensen and E. Johansen. 2,652,628, Sept. 22.
Lifter: *See*—
Pipe lifter.
Light: *See*—
Parking brake indicator light.
Light-responsive fluorescent media. J. L. and R. C. Switzer, and R. A. Ward. 2,653,109, Sept. 22.
Lighter, Pyrophoric. H. C. H. Smyth. 2,652,706, Sept. 22.
Liquid cooling and dispensing device. D. H. Sniader. 2,653,014, Sept. 22.
Liquid filling valve. L. McGihon. 2,652,965, Sept. 22.
Liquid soap dispenser. D. T. Mowbray. 2,652,952, Sept. 22.
Lock: *See*—
Electric door lock. Folding table leg lock.
Lock control, Self-releasing. M. Sultan. 2,653,047, Sept. 22.
Locking controls, Filing cabinet. R. E. McClellan. 2,653,070, Sept. 22.
Log debarker for sawmills, Portable. J. R. Boswell. 2,652,867, Sept. 22.
Loom. A. Barraghi. 2,652,860, Sept. 22.
Low inertia type drag cup motor. N. H. Sailer. 2,653,237, Sept. 22.
Lubrication warning signal switch. A. Kellenbenz. 2,653,205, Sept. 22.
Lubricator: *See*—
Tube sizing lubricator.
Luggage handle. A. Knell. 2,652,909, Sept. 22.
Machine control. C. F. Frye. 2,652,732, Sept. 22.
Machine for applying adhesives in the bottoms of the grooves of flooring strips. A. Klammt and G. W. Kretzschmar. 2,652,806, Sept. 22.
Machine for cleaning and polishing space bands and the like. G. P. Hartzell. 2,652,579, Sept. 22.
Machine for cutting defective sections from lumber. P. de Anguera. 2,652,864, Sept. 22.
Machine for loading bundles of tobacco leaves onto sticks. K. R. Funnell. 2,652,932, Sept. 22.
Machine for manufacturing battery plates. A. R. Willard. 2,652,617, Sept. 22.
Machine for producing articles from blank stock. S. Chisberta. 2,652,577, Sept. 22.
Machine for separating and delivering metal sheets from a stack. R. Van Schie. 2,652,934, Sept. 22.
Machine for turning wood heel blanks. W. J. Grenier. 2,652,865, Sept. 22.
Magazine arrangement for record-receiving material in strip or wire form. J. E. Godeck. 2,652,988, Sept. 22.
Magnetic treatment device for liquids. T. I. S. Vermeiren. 2,652,925, Sept. 22.
Magnetron anode structure. E. Everhart. 2,653,275, Sept. 22.
Making a unitary thermionic filament structure. R. B. Nelson. 2,652,621, Sept. 22.
Manifolding transfer and making. J. G. Zimmerman. 2,653,110, Sept. 22.
Marionette. J. S. Barkey. 2,652,658, Sept. 22.
Marking. H. G. Greig. 2,653,126, Sept. 26.
Massaging device, Mechanical. F. A. Kallmeyer. 2,652,826, Sept. 22.
Material handling machine. F. O. Paulson. 2,652,695, Sept. 22.
Means to facilitate the laying of masonry units. P. H. Sommers. 2,652,714, Sept. 22.
Measuring the polarity of seismometers, Method of and apparatus for. E. L. De Shaso, Jr. 2,653,305, Sept. 22.
Mechanism for controlling emission of gas from lighters. A. F. Reilly, Jr. and A. M. Larsen, Jr. 2,652,707, Sept. 22.
Mechanism for disconnecting and reinserting the lifting movement of the cloth feed claw in sewing machines. G. Amman. 2,652,797, Sept. 22.
Mechanism to transfer automobiles. J. N. Murphy. 2,652,938, Sept. 22.
Medical diagnostic instrument. E. M. Rhuh and C. W. Bergerson. 2,652,825, Sept. 22.
Metal oxide production. F. W. Lane. 2,653,078, Sept. 22.
Method of and bath for electrodepositing tungsten alloys. A. Brenner, P. S. Burkhead, and C. A. Zentel. 2,653,128, Sept. 22.
Methods of and baths for electrodepositing cobalt or cobalt-molybdenum alloys. A. Brenner and P. Burkhead. 2,653,127, Sept. 22.
Milling fixture. R. C. Lacy. 2,652,750, Sept. 22.
Miniature packet, Making a. L. Adler. 2,653,120, Sept. 22.
Miniature tube holder. L. F. Millett. 2,653,181, Sept. 22.
Mirror construction, Rearview. C. E. Morley. 2,652,648, Sept. 22.
Modulating pulsator. R. L. Cockman. 2,653,196, Sept. 22.
Mold for making concrete steps. A. Como. 2,652,614, Sept. 22.
Molding, baking, depanning, and delivering means for loaves. S. Linten. 2,652,701, Sept. 22.
Molding machine, Building block. M. R. Warren. 2,652,613, Sept. 22.
Molding machine, Candy. T. L. Peters, A. George, and L. Stidham. 2,652,789, Sept. 22.
Molding machine, Vibration. E. Menger. 2,652,606, Sept. 22.
Molding machine, Vibration. E. Menger. 2,652,608, Sept. 22.
Molding method and apparatus. P. A. Williams. 2,652,592, Sept. 22.
Molds, Making. F. Sudia, Jr. 2,652,609, Sept. 22.
Monochromator. A. Walsh. 2,652,742, Sept. 22.
Morpholine azo dyestuffs. M. Mendoza. 2,653,150, Sept. 22.
Motion ratio changer. T. A. Feeney. 2,652,994, Sept. 22.
Motor: *See*—
Low inertia type drag cup motor. Pulsating-current motor.
Motor-protection during dynamic braking. G. R. Purifoy and W. L. Barclay, Jr. 2,653,284, Sept. 22.
Mounting: *See*—
Resilient bearing mounting.
Mounting for electric motors, Resilient. E. C. Ballman. 2,652,997, Sept. 22.
Mounting for reels, bobbins, and the like. S. W. Ripley. 2,652,989, Sept. 22.
Multiplication and division linkage operator. E. W. Pike. 2,652,978, Sept. 22.
N-N'-dichloro-1,8-diformamido-p-menthane. M. D. Hurwitz and R. W. Auten. 2,653,160, Sept. 22.
N-trichloromethylthio imides, Manufacture of. A. R. Kittleson. 2,653,155, Sept. 22.
Nail-driving mechanism. C. J. Bacon and S. J. Kent. 2,652,564, Sept. 22.
Navel umbilical pressure shield. H. E. Smith. 2,652,827, Sept. 22.
Necktie holder. M. W. Bagier. 2,652,568, Sept. 22.
Needle holder. R. Castroviejo. 2,652,832, Sept. 22.
Needle stripper foot for sewing machines. R. E. Johnson. 2,652,798, Sept. 22.
Nonlinear resonant flip-flop circuit. C. F. Spitzer and R. J. Reich. 2,653,254, Sept. 22.
Nonslip garment hanger. R. Wolf. 2,652,957, Sept. 22.
Nozzle, Duplex. W. J. Purchas, Jr., and E. Orent. Sept. 22.
Oats and making same, Puffed. J. M. Baer. 2,653,095, Sept. 22.
Object detection. W. Hausz. 2,653,309, Sept. 22.
Oil burner baffle system. K. S. Jenson and F. W. Suhr. 2,652,889, Sept. 22.
Oleo-pneumatic suspension system for automobiles and like vehicles. R. L. Levy. 2,653,021, Sept. 22.
Open-end wrench. G. W. Wilder. 2,652,735, Sept. 22.
Opening and detwisting tubular fabric, Means for. J. B. Lasley. 2,652,615, Sept. 22.
Optical apparatus for measuring temperature. W. J. Morrow. 2,652,743, Sept. 22.
Organic material and making same, Puffed. J. M. Baer. 2,653,093, Sept. 22.
Organometallic compounds by reaction between dry diazonium compounds and metallic salts in organic solvents, Preparation of. G. O. Doak and L. D. Freedman. 2,653,160, Sept. 22.
Ornament assembly and supporting means therefor, Christmas tree. W. F. Protz. 2,653,216, Sept. 22.
Oscillator, Resonant line. J. L. Clark. 2,653,244, Sept. 22.
Overshoe, One-piece foldable. R. B. Hardman. 2,652,637, Sept. 22.
Oxidation process. I. E. Levine. 2,653,165, Sept. 22.
Oxo-bottoms base lubricating grease. A. J. Morway and P. V. Smith, Jr. 2,653,132, Sept. 22.
P-amino-salicyclic acid derivatives and their production. R. A. Ursprung. 2,653,157, Sept. 22.
Packaging table-ready meats. H. G. Holtz. 2,652,669, Sept. 22.
Pan, Cooking. J. H. Moreno. 2,652,768, Sept. 22.
Panel, Composite. J. R. Burke. 2,652,600, Sept. 22.
Panel forming machine, Continuous planar type. C. D. Dosker. 2,652,870, Sept. 22.
Paper bag. H. C. Davis. 2,652,972, Sept. 22.
Parking brake indicator light. H. S. Kawecki and C. J. Glowzinski. 2,653,197, Sept. 22.

Partial esters of polyhydroxyl polyethers. S. O. Greenlee. 2,653,141, Sept. 22.
Pedometer, Marine. H. W. Goff. 2,652,803, Sept. 22.
Percussion initiated detonator. M. E. Swanson. 2,652,775, Sept. 22.
Permanent waving of hair. E. O. Schnell. 2,653,121, Sept. 22.
Phonograph. C. B. Dale. 2,652,729, Sept. 22.
Photographic composing apparatus. R. Higonnet and L. Moyroud. 2,652,755, Sept. 22.
Photographic copying apparatus. E. Goldberg. 2,652,744, Sept. 22.
Photographic diazotype composition and heat development thereof. H. G. Greig. 2,653,091, Sept. 22.
Photorecording means. F. G. Dedek. 2,652,754, Sept. 22.
Photoreproduction device. F. P. Robbins. 2,652,757, Sept. 22.
Pickling. R. M. Drews and H. L. Farling. 2,653,115, Sept. 22.
Pickup cartridge and tone arm assembly for phonographs. M. Palo and A. L. Dvorsky. 2,653,191, Sept. 22.
Pipe: *See*—
Tobacco pipe.
Pipe coupling. B. F. Galluppi. 2,653,040, Sept. 22.
Pipe lifter. R. W. Lewis. 2,653,006, Sept. 22.
Piston. J. C. Appleton. 2,653,065, Sept. 22.
Pitter, Peach. T. B. Keesling. 2,652,872, Sept. 22.
Pivoted stop valve. O. Schnyder. 2,653,004, Sept. 22.
Plate articles, Manufacturing. O. E. Andrus. 2,653,211, Sept. 22.
Plates adapted for use in electrolytic devices. J. B. Brennan. 2,653,119, Sept. 22.
Playpen. E. O. Stanclift. 2,653,011, Sept. 22.
Plow. E. C. Gibson. 2,652,761, Sept. 22.
Plow, One-way disk. H. E. Ashley. 2,652,762, Sept. 22.
Plunger aid. H. J. Hix. 2,652,571, Sept. 22.
Polyheptamethyleneurea and making the same, Stabilized. E. A. Wielicki. 2,653,144, Sept. 22.
Portable cutting device. H. A. Cumfer. 2,652,892, Sept. 22.
Portable icebox. P. Schlumbohm. 2,652,698, Sept. 22.
Potentiometer termination, Adjustable. H. L. Coyne and O. S. A. Mesch. 2,653,207, Sept. 22.
Power measuring apparatus, High-frequency. E. L. Ginzton. 2,653,299, Sept. 22.
Power press. E. W. Wilkins. 2,652,770, Sept. 22.
Power supply system. H. T. Langabeer. 2,653,253, Sept. 22.
Precooked rice. C. R. Carman and J. E. Allison. 2,653,100, Sept. 22.
Precooler for refrigerated drinking fountains. C. P. Freer. 2,653,013, Sept. 22.
Presetting device for cutting tools. H. R. De Vlieg. 2,652,634, Sept. 22.
Press: *See*—
Power press.
Pressure ratio sensing device. J. H. Stresen Reuter, and J. T. Karpus, Jr. 2,652,813, Sept. 22.
Pressurized combustion and ash removal system for coal-fired gas turbine power plants. J. I. Yellott. 2,652,792, Sept. 22.
Printing apparatus, Rotary photogravure. A. M. Halley. 2,652,773, Sept. 22.
Production and recovery of ammonium sulfate. R. S. Ogilvie. 2,653,077, Sept. 22.
Projection lamp holder. R. E. Ulrich and V. A. Schlenker. 2,653,217, Sept. 22.
Propeller blade construction. F. M. Le Compte. 2,652,897, Sept. 22.
Protector: *See*—
Rearview window protector.
Protector for a dispensing device for liquid products retained under pressure in a container. J. Henchert. 2,653,053, Sept. 22.
Providing metallic articles with a protective work surface layer. G. Becker and F. Steinberg. 2,653,210, Sept. 22.
Pulsating-current motor. L. J. Hibbard. 2,653,286, Sept. 22.
Pulsatory device for milking machines. H. P. Segebarth. 2,652,847, Sept. 22.
Pulse lengthening circuit. C. W. Johnstone and H. V. Hance. 2,653,237, Sept. 22.
Pulverizer and mixer. A. L. Hall. 2,652,983, Sept. 22.
Pump: *See*—
Electromagnetic centrifugal pump.
Pump with packing device, Fluid-operated free. R. F. McArthur. 2,652,779, Sept. 22.
Purification of chlorocyclohexanes. G. Scheuing and C. Vogelbach. 2,653,174, Sept. 22.
Purification of streptomycin. H. Sokol and R. P. Popino. 2,653,151, Sept. 22.
Purifying alcoholic liquor. J. B. Renier. 2,653,092, Sept. 22.
Quaternary ammonium compounds and producing the same. M. K. Deutsch and H. W. Stobbe. 2,653,156, Sept. 22.
Quaternary salts. D. T. Mowry and E. L. Ringwald. 2,653,166, Sept. 22.
Rack: *See*—
Collapsible rack.
Radar system for distinguishing moving targets from stationary targets. R. A. McConnell. 2,653,311, Sept. 22.
Radioactive primed resonant window for high-frequency discharge devices. T. G. Prescott. 2,652,618, Sept. 22.
Radio echo training system. R. L. Garman and C. R. Haupt. 2,652,636, Sept. 22.
Radio identification system. C. W. Johnstone, W. N. Dean, and L. Mautner. 2,653,234, Sept. 22.
Radio jamming device. E. M. Williams and E. V. Cousy. 2,653,222, Sept. 22.
Radio receiver, Amplitude and frequency modulation. K. Önder. 2,653,227, Sept. 22.
Railway crossing. R. F. Lanier. 2,652,981, Sept. 22.
Rake, Basket yard. J. A. Adams. 2,652,680, Sept. 22.
Range measuring apparatus. P. W. Siglin. 2,653,232, Sept. 22.
Ratio detector. R. C. Moses. 2,653,230, Sept. 22.
Rearview window protector. W. N. Ashcraft. 2,653,050, Sept. 22.
Recovery of heavy metals. J. M. Brooke. 2,653,089, Sept. 22.
Rectifier-powered vehicle. L. J. Hibbard. 2,653,287, Sept. 22.
Reel: *See*—
Casting reel.
Fishing reel.
Gathering reel.
Reel traverse. G. G. Tucker, Jr. 2,652,992, Sept. 22.
Refractory furnace roof brick resistant to spalling. R. P. Heuer and M. A. Fay. 2,653,793, Sept. 22.
Refractory metal tubes, Manufacture of. J. W. Marden. 2,652,623, Sept. 22.
Register, Degree-day. E. D. Hidy. 2,652,724, Sept. 22.
Regulator: *See*—
Dual voltage regulator.
Voltage regulator.
Relay. J. T. L. Brown and W. B. Ellwood. 2,653,199, Sept. 22.
Remote-control system. W. A. Derr. 2,653,188, Sept. 22.
Removing scale from zirconium metal and alloys thereof. E. D. Dilling and G. L. Frederic. 2,653,134, Sept. 22.
Removing sealant from fuel tanks. K. R. Whitcomb and E. E. Finch. 2,653,116, Sept. 22.
Repair unit for tire valve stems. E. V. Snyder. 2,652,858, Sept. 22.
Resilient bearing mounting. J. P. Arndt, J. Hruby, and J. J. Schulze. 2,653,063, Sept. 22.
Respirator. J. N. Matheson. 2,652,828, Sept. 22.
Ribbon attaching means. E. M. Lippert. 2,652,918, Sept. 22.
Road joint connection. A. F. Crone. 2,652,752, Sept. 22.
Rock drill bit. J. C. Curtis. 2,653,010 Sept. 22.
Rotary drum filter. T. R. Komline. 2,652,928, Sept. 22.
Rotary feeding device. H. S. Messing. 2,652,935, Sept. 22.
Safety control for multiple ironing machines. J. H. Leef. 2,652,643, Sept. 22.
Safety stop device. A. C. Christensen. 2,652,914, Sept. 22.
Scaler, Probability. G. J. Perlow and C. A. Schroeder. 2,653,248, Sept. 22.
Scraping implement. H. B. Richie. 2,652,581, Sept. 22.
Scutching apparatus. D. E. U'Ren. 2,652,598, Sept. 22.
Sealing containers, Method and apparatus for. O. Bjering. 2,652,964, Sept. 22.
Sealing device for well heads. H. L. Arrowood. 2,652,895, Sept. 22.
Seamless, hollow rubber articles, Production of. W. Opavsky. 2,652,596, Sept. 22.
Seat: *See*—
Theater seat.
Tractor seat.
Seat for dental chairs and the like, Supplemental. L. C. Holtzendorff. 2,652,883, Sept. 22.
Securing device for wallets. J. Barricini. 2,652,873, Sept. 22.
Seismometer. R. G. Piety. 2,653,306, Sept. 22.
Selective circuit. W. Lyons. 2,653,194, Sept. 22.
Selectively puffing granular material and the resulting product. J. M. Baer. 2,653,098, Sept. 22.
Separable slide fastener. E. H. E. Jaster. 2,652,611, Sept. 22.
Separate end-turn rotor-ventilation. R. A. Baudry and P. R. Heller. 2,653,255, Sept. 22.
Separation process. J. I. Ackerman, Jr. 2,653,147, Sept. 22.
Servomotor apparatus, Combined manual and automatic hydraulic. E. J. Fenal. 2,652,812, Sept. 22.
Sewing machine lubrication. A. N. Hale. 2,652,799, Sept. 22.
Sewing machine table. K. Scheiwiller. 2,652,800, Sept. 22.
Sewing machine, Zigzag. R. Casas, Robert and J. Court. 2,652,795, Sept. 22.
Sewing machine, Zigzag. R. Casas and J. Court. 2,652,795, Sept. 22.
Sextant. P. F. Everitt and J. Keeble. 2,652,976, Sept. 22.
Shakeout device for tight flask molds, Automatic. A. C. Christensen. 2,652,605, Sept. 22.
Shaker, Salt and pepper. A. Esposito and A. Galantino. 2,652,951, Sept. 22.
Sharpener, Conditioning cutlery. C. C. Renteria. 2,652,668, Sept. 22.
Sharpener, Knife. C. D. Arnold. 2,652,667, Sept. 22.
Shears, Power-operated. H. W. Dutcher. 2,652,626, Sept. 22.
Sheet metal container. J. Henchert. 2,652,947, Sept. 22.
Shelter, Outdoor instrument. L. E. Wood. 2,652,722, Sept. 22.
Shock absorbing and insulation material, Making. G. A. Gerard. 2,652,878, Sept. 22.

Shoe soles, Making. A. L. Murray. 2,653,111, Sept. 22.
Sign construction, Display. M. La Barbara. 2,652,651, Sept. 22.
Signal actuated tuner control. J. H. Guyton. 2,653,225, Sept. 22.
Signal device, Hunting dog. H. W. Kobert. 2,652,649, Sept. 22.
Silencer with a resonance chamber. G. M. Walton and R. E. Brown. 2,652,899, Sept. 22.
Siphon retainer. W. Ebbs and J. L. Harden. 2,652,849, Sept. 22.
Sizing of ethylene polymer structures. T. F. Banigan. 2,653,113, Sept. 22.
Skip-numbering mechanism for printing presses or the like. N. Katz. 2,652,772, Sept. 22.
Socket for incandescent lamps or discharge tubes comprising two parallel contact sleeves. J. H. F. van Werd. 2,653,303, Sept. 22.
Spade, Detachable trench hoe. V. L. Schield. 2,652,640, Sept. 22.
Speed control system. J. B. Stinson. 2,653,020, Sept. 22.
Spring supporting clip. W. Engel. 2,652,885, Sept. 22.
Square wave generator. J. W. Gray. 2,653,242, Sept. 22.
Stabilization of acrolein. H. L. Parry. 2,653,172, Sept. 22.
Stabilized aromatic amines. A. L. Linch. 2,653,171, Sept. 22.
Stabilizer and hydraulic pack-off Kelly joint, Combination. D. Ragland. 2,653,009, Sept. 22.
Stapling device. J. Leibowitz. 2,652,563, Sept. 22.
Starting device for compressor-turbine units. A. V. D. Willgoos. 2,652,685, Sept. 22.
Stationary induction apparatus. O. Kiltie. 2,653,280, Sept. 22.
Stepladder, Multiplatform. C. F. Hansen. 2,652,967, Sept. 22.
Stone gatherer. A. Zehren. 2,652,673, Sept. 22.
Stop motion for looms, Mechanically actuated. J C Case. 2,652,861, Sept. 22.
Strand feeding mechanism for fastening inserting machines. C. L. Knott. 2,652,616, Sept. 22.
Stretching and shaping form for necktie. W. L. Rieck. 2,652,956, Sept. 22.
Structural section. J. J. Senglar. 2,652,713, Sept. 22.
Structure having bonded thereto a corrosion resistant surface. R. B. Seymour. 2,653,118, Sept. 22.
Submersible support for machinery. J. L. Goldman and L. Blum. 2,652,693, Sept. 22.
Suit, Vapor-heated. R. E. Hopp. 2,652,824, Sept. 22.
Sulfur and phosphorus-containing esters. S. A. Ballard, R. C. Morris, and J. L. Van Winkle. 2,653,161, Sept. 22.
Suppressed carrier radio communication system. C. W. Carnahan. 2,653,221, Sept. 22.
Surface active compounds. W. B. Hughes and E. B. Fisher. 2,653,135, Sept. 22.
Surface active compounds. W. B. Hughes. 2,653,136, Sept. 22.
Surface active compounds. W. B. Hughes and E. B. Fisher. 2,653,137, Sept. 22.
Surface leveling apparatus. C. E. Gifford and R. W. Keeler. 2,652,642, Sept. 22.
Sweetening hydrocarbon oils. J. H. Krause. 2,653,124–5, Sept. 22.
Switch: *See*—
Lubrication warning signal switch.
Wide band transmit receive switch.
Switch means, Mechanically timed electrically operated. H. W. Foster and R. L. Halpern. 2,653,200, Sept. 22.
Switching device, Electric. V. G. Krenke. 2,653,198, Sept. 22.
Synchronising apparatus. D. G. C. Luck and L. L. Burns, Jr. 2,653,187, Sept. 22.
Synthesis of alkylene cyanohydrins. L. S. Luskin. 2,653,162, Sept. 22.
System and apparatus for the formation of optical images. D. Harker. 2,653,249, Sept. 22.
Table: *See*—
Drafting table.
Sewing machine table.
Tank closure. N. Walker. 2,652,945, Sept. 22.
Tape. R. Weinberg. 2,652,705, Sept. 22.
Target throwing machine. G. H. Darrell. 2,652,820, Sept. 22.
Telephone apparatus. E. Shipton. 2,653,192, Sept. 22.
Television, Additive color. A. N. Goldsmith. 2,653,183, Sept. 22.
Television control system, Plural camera. W. L. Hurford. 2,653,186, Sept. 22.
Television equipment. H. R. Lubcke and H. W. Jury. 2,653,185, Sept. 22.
Television, Multicolor. G. E. Sleeper, Jr. 2,653,182, Sept. 22.
Tellurium catalysts. W. R. Middleton. 2,653,138, Sept. 22.
Template. H. D. Drain. 2,652,866, Sept. 22.
Testing multiconductor insulated wires. H. B. Weaver. 2,653,296, Sept. 22.
Testing tubing, Method and apparatus for. W. M. Bush and C. H. Collett. 2,652,717, Sept. 22.
Tetraethyllead, Manufacture of. G. W. Beste, H. M. Tanner, and H. Shapiro. 2,653,159, Sept. 22.
Textile finishing compositions. O. C. W. Allenby and J. C. MacKenzie. 2,653,140, Sept. 22.
Theater seat. M. H. Rowe. 2,652,881, Sept. 22.
Thermal air-speed indicator. C. E. Hastings. 2,652,723, Sept. 22.
Thermocouple device. W. H. Rufle. 2,653,178, Sept. 22.
Thermometer, Maximum indicating. F. Gotthart. 2,652,726, Sept. 22.
Thermometer mounting for double-walled tanks, Bimetallic. A. H. Lamb. 2,652,725, Sept. 22.
Thermostat-controlled condensation drainer. C. W. St. Clair. 2,652,980, Sept. 22.
Thyratron control system for series motors. E. F. Kubler. 2,653,288, Sept. 22.
Thyratron reversing motor control system. L. U. C. Kelling. 2,653,280, Sept. 22.
Tie plate clamp and rail guard. J. R. Snyder. 2,652,982, Sept. 22.
Tightening apparatus for typewriter mountings. J. H. Page. 2,653,067, Sept. 22.
Timepiece, Lever wound. G. Bridevaux. 2,652,684, Sept. 22.
Timer, Electronic. E. C. Hartwig and H. W. Van Ness. 2,653,209, Sept. 22.
Tobacco pipe. P. N. Youtz. 2,652,836, Sept. 22.
Tool: *See*—
Ball plug setting tool.
Concrete block handling tool.
Tool handle. J. J. Shore. 2,653,029, Sept. 22.
Tool handle connection. L. Rubenstein. 2,653,060, Sept. 22.
Tool having oppositely rotating toothed rollers, Bark-removing. R. H. Grant. 2,652,868, Sept. 22.
Toolholder. H. Hagmeister. 2,652,749, Sept. 22.
Tool with portable vertical-shaft motor, Power-driven table. E. E. Grabinski. 2,652,863, Sept. 22.
Torque governor for engine making use of a power supply that is subject to great variation. L. Romani. 2,653,250, Sept. 22.
Torque rod assembly for spring suspension. J. C. Ward. 2,653,035, Sept. 22.
Toy pistol. G. I. Griffith. 2,652,822, Sept. 22.
Toy vehicle, including foot operated ratchet drive mechanism. J. B. Lassiter. 2,653,037, Sept. 22.
Traction mechanism for cog roads. W. C. Cox. 2,652,785, Sept. 22.
Tractor and trailer brake system. O. M. Whitten. 2,652,904, Sept. 22.
Tractor hand brake. G. E. Arnio. 2,652,905, Sept. 22.
Tractor mounted grab device for hay and the like. M. E. Burch. 2,652,939, Sept. 22.
Tractor seat. E. W. Gundersen. 2,652,880, Sept. 22.
Trailer hitch. C. W. Butler. 2,653,031, Sept. 22.
Trailer steering hitch. W. E. Ellis. 2,653,032, Sept. 22.
Trampolin. L. V. Griswold. 2,652,966, Sept. 22.
Transfer pad for labeling machines, Pneumatic. S. T. Carter. 2,652,941, Sept. 22.
Transmission of picture and sound on the same carrier. J. E. Robinson. 2,653,184, Sept. 22.
Trap. C. F. Glasser. 2,652,656, Sept. 22.
Trap mechanism. J. F. Fitzgerald. 2,652,655, Sept. 22.
Tray and platter, Combination picnic. O. C. Hintze. 2,652,702, Sept. 22.
Treatment of beta-methylene-beta-propiolactone copolymers. H. W. Gray and C. W. Theobald. 2,653,146, Sept. 22.
Treatment of pitch. O. F. Campbell. 2,652,594, Sept. 22.
Treatment of pitch. K. A. Smith and D. K. Hedeen. 2,652,593, Sept. 22.
Treatment of pitch, Method and apparatus for the. H. C. Kuhn. 2,652,591, Sept. 22.
Tripod structure. C. J. Cadwell and F. M. Adamson. 2,653,000, Sept. 22.
Truck, Rotator drum. R. Andrews. 2,653,015, Sept. 22.
Truck, Self-loading. A. C. Hensley. 2,652,936, Sept. 22.
Truck, Snubbed. J. J. Kowalik. 2,652,786, Sept. 22.
Truck with adjustable toe plate, Hand. J. C. and E. Z. Chenette. 2,653,033, Sept. 22.
Tube: *See*—
Gas-filled grid controlled electronic tube.
Tunable magnetron tube.
Tube sizing lubricator. J. Fischer, Jr. 2,652,751, Sept. 22.
Tube structure, Gaseous electron. J. E. McLinden, Jr. 2,653,264, Sept. 22.
Tunable magnetron tube. F. H. Crawford. 2,653,276, Sept. 22.
Tuning of resonant circuits, Automatic. C. E. McClellan. 2,653,243, Sept. 22.
Two-stroke cycle internal-combustion engine. F. J. Neugebauer. 2,652,817, Sept. 22.
Ultrahigh-frequency converter. W. Y. Pan. 2,653,228, Sept. 22.
Ultrahigh-frequency generator. S. Ramo. 2,653,272, Sept. 22.
Universal structural section. E. Kahlstorf. 2,652,764, Sept. 22.
Utility master power unit. N. C. Labriola and G. Adamec. 2,652,690, Sept. 22.
Valve: *See*—
Cleanout gate valve.
Combination vacuum and solenoid operated valve.
Control valve.
Dispensing and mixing valve.
Liquid filling valve.
Pivoted stop valve.
Valve. R. T. Cornelius. 2,653,005, Sept. 22.
Valve and indicator construction, Pilot. E. G. Schmidt and J. E. Svabek, Jr. 2,652,851, Sept. 22.

Valve and the like, Float. K. E. Ericsson and E. G. A. Geber. 2,652,852, Sept. 22.
Valve assembly. P. Engstrum. 2,652,857, Sept. 22.
Valve for crankcase ventilators, Automatic drain. D. S. Nusbaum. 2,652,819, Sept. 22.
Vapor electric device. R. J. Ballard. 2,653,266, Sept. 22.
Vapor feeding device for internal-combustion engines. C. A. Humphries. 2,652,815, Sept. 22.
Variable pitch feeder. L. J. Nowak, Jr. 2,652,954, Sept. 22.
Variable voltage device. J. L. Montgomery. 2,653,206, Sept. 22.
Vehicle: *See*—
Rectifier-powered vehicle.
Vehicle step, Swingable. J. E. Creel and W. E. Russell. 2,653,036, Sept. 22.
Vehicle with adjustable track, Automobile transporting. D. Mettetal, Jr. 2,653,049, Sept. 22.
Vending machine. F. S. Mason. 2,652,916, Sept. 22.
Vending machine. F. S. Mason. 2,653,069, Sept. 22.
Vertical axis, pump and turbine hydraulic coupling. T. Hudyma and M. Olijnyk. 2,652,688, Sept. 22.
Violin rest. J. E. Hall. 2,652,739, Sept. 22.
Voltage and current responsive dynamic braking control system. G. R. Purifoy and C. F. Jenkins. 2,653,292, Sept 22.
Voltage regulator. B. Ostendorf, Jr. 2,653,252, Sept. 22.
Voucher check. W. R. Wallman. 2,653,039, Sept. 22.
Warp beam. R. H. MacMillan. 2,652,993, Sept. 22.
Washer and drier, Combined clothes. V. E. Rimsha and A. C. Goodrich. 2,652,708, Sept. 22.
Washer and squeezer extractor. M. W. Bowen. 2,652,709, Sept. 22.
Washing and centrifugal drying machine, Combined. J. G. de Remer. 2,652,710, Sept. 22.
Washing apparatus, Diaper. J. W. Sampson and C. M. Champion. 2,652,711, Sept. 22.
Water discharge fitting for fuel tanks and the like. P. S. Jernigan. 2,652,926, Sept. 22.
Water inlet structure for outboard motors. B. Carlson and J. E. Betzold. 2,652,802, Sept. 22.
Water tube boiler. F. A. Vedder. 2,652,814, Sept. 22.
Wear resistant tool joint. R. W. Lewis and S. C. Moore. 2,653,061, Sept. 22.
Wedge for tools having wooden handles. F. Nooney. 2,653,039, Sept. 22.
Welded pressed steel dual wheel. D. W. Sherman. 2,653,037, Sept. 22.
Welding apparatus and welding system. I. J. Pickering. 2,653,277, Sept. 22.
Well jar. E. L. Potts. 2,653,008, Sept. 22.
Wheat and making same, Puffed. J. M. Baer. 2,653,096, Sept. 22.
Wheat and making same, Quick-cooking. C. R. Carman and J. E. Allison. 2,653,102, Sept. 22.
Wheel: *See*—
Welded pressed steel dual wheel.
Wide band transmit receive switch. L. D. Smullin. 2,653,300, Sept. 22.
Winding for yarns, Precision cross. F. Osborne. 2,652,987, Sept. 22.
Windmill and heat pump set. L. Romani. 2,652,699, Sept. 22.
Window changer. H. L. Cutler. 2,652,937, Sept. 22.
Window construction. H. A. Etling. 2,652,602, Sept. 22.
Window construction, Inwardly swingable, vertically slidable. H. A. Etling. 2,652,603, Sept. 22.
Windrow turning apparatus. N. R. Krause. 2,652,679, Sept. 22.
Wire and cable rewinder. T. K. Niland. 2,652,630, Sept. 22.
Wire guide. B. B. Scott. 2,652,986, Sept. 22.
Wood screw manufacturing process. S. Chiaberta. 2,652,578, Sept. 22.
"Wow" analysis apparatus. R. H. Dreisbach. 2,653,019, Sept. 22.
Wrapping and sealing machine for tampons. J. A. Carrier. 2,652,670, Sept. 22.
Wrench: *See*—
Open-end wrench.
Wrench extension handle. L. H. Kiene. 2,652,736, Sept. 22.
X-ray apparatus. W. H. Haupt. 2,653,245, Sept. 22.
X-ray apparatus. D. Sussin and H. S. Ware. 2,653,246, Sept. 22.
X-ray thickness gauge. W. N. Lundahl. 2,653,247, Sept. 22.
X-ray tube construction, Demountable. A. Taylor. 2,653,260, Sept. 22.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 22, 1953

NOTE.—First number—class, second number—subclass, third number—patent number.

1— 3: 2,652,563
44.4: 2,652,564
2— 24: 2,652,565
29: 2,652,566
93: 2,652,567
145: 2,652,568
2,652,569
3— 12.6: 2,652,570
4— 255: 2,652,571
5— 9: 2,652,572
2,652,573
11: 2,652,574
100: 2,652,575
227: 2,652,576
8— 55: 2,653,074
150.5: 2,653,075
10— 2: 2,652,577
10: 2,652,578
15— 4: 2,652,579
194: 2,652,580
236: 2,652,581
2,652,582
304: 2,652,583
16— 1: 2,652,584
86: 2,652,585
87.2: 2,652,586
191: 2,652,587
17— 2: 2,652,588
24: 2,652,589
18— 2: 2,652,590
2.5: 2,652,591
42: 2,652,592
47.3: 2,652,593
2,652,594
47.5: 2,652,595
2,652,596
55: 2,652,597
19— 12: 2,652,598
20— 2: 2,652,599
35: 2,652,600
2,652,601
50: 2,652,602
2,652,603
57.5: 2,652,604
22— 1: 2,652,605
26: 2,652,606
2,652,607
32: 2,652,608
196: 2,652,609
23— 1: 2,653,076
119: 2,653,077
139: 2,653,078
152: 2,653,079
200: 2,653,080
2,653,081
209.1: 2,653,082
253: 2,653,083
290.5: 2,653,084
24— 66: 2,652,610
201: 2,652,611
265: 2,652,612
25— 41: 2,652,613
118: 2,652,614
26— 55: 2,652,615
28— 71.5: 2,652,616
29— 2: 2,652,617
25.13: 2,652,618
76: 2,652,619
148: 2,652,620
155.5: 2,652,621
2,652,622
156: 2,652,623
189: 2,652,624
283: 2,652,625
30— 216: 2,652,626
33— 71: 2,652,627
89: 2,652,628
112: 2,652,629
129: 2,652,630
147: 2,652,631
170: 2,652,632
185: 2,652,633
185: 2,652,634
35— 9: 2,652,635
10.4: 2,652,636
36— 7.3: 2,652,637
86: 2,652,638
37— 2: 2,652,639
103: 2,652,640
141: 2,652,641
155: 2,652,642
38— 5: 2,652,643
54: 2,652,644
77: 2,652,645
136: 2,652,646
40— 10: 2,652,647
20: 2,652,648
129: 2,652,649
2,652,650
130: 2,652,651
2,652,652
41— 10: 2,652,653
42: 2,652,654
43— 24: 2,652,654
60: 2,652,655
105: 2,652,656
45— 131: 2,652,657
46— 126: 2,652,658
47— 61: P.P.1217
49— 32: 2,652,659
79: 2,652,660
51— 5: 2,652,661
12: 2,652,662
165: 2,652,663
2,652,664
2,652,665
194: 2,652,666
214: 2,652,667
270: 2,652,668
53— 7: 2,653,086
53— 74: 2,652,669
134: 2,652,670
54— 6: 2,652,671
55— 3: 2,652,672
17: 2,652,673
84: 2,652,674
56— 23: 2,652,675
42: 2,652,676
123: 2,652,677
328: 2,652,678
372: 2,652,679
400.11: 2,652,680
57— 95: 2,652,681
58—21.11: 2,652,682
35: 2,652,683
81: 2,652,684
60— 11: 2,652,685
39.28: 2,652,686
39.46: 2,652,687
54: 2,652,688
2,652,689
55: 2,652,690
97: 2,652,691
61— 4: 2,652,692
46: 2,652,693
48: 2,652,694
63: 2,652,695
62— 1: 2,652,696
2: 2,652,697
80: 2,652,698
115: 2,652,699
64— 1: 2,652,700
65— 13: 2,652,701
15: 2,652,702
53: 2,652,703
66— 149: 2,652,704
193: 2,652,705
67— 4.1: 2,652,706
7.1: 2,652,707
68— 20: 2,652,708
21: 2,652,709
23: 2,652,710
245: 2,652,711
70—456: 2,652,712
71— 2.4: 2,653,087
72— 16: 2,652,713
130: 2,652,714
2,652,715
73— 40: 2,652,716
40.5: 2,652,717
78: 2,652,718
113: 2,652,719
158: 2,652,720
2,652,721
73— 170: 2,652,722
204: 2,652,723
339: 2,652,724
243: 2,652,725
271: 2,652,726
306: 2,652,727
74— 44: 2,652,728
472: 2,652,729
732: 2,652,730
75— 38: 2,653,088
108: 2,653,089
77— 4: 2,652,731
33.5: 2,652,732
78— 60: 2,652,733
81— 17: 2,652,734
119: 2,652,735
177: 2,652,736
82— 34: 2,652,737
43: 2,652,738
84— 280: 2,652,739
85— 5: 2,652,740
40: 2,652,741
88— 14: 2,652,742
22.5: 2,652,743
24: 2,652,744
2,652,745
47: 2,652,746
53: 2,652,747
57: 2,652,748
90— 11: 2,652,749
11.62: 2,652,750
92— 3: 2,653,090
93— 83: 2,652,751
94— 8: 2,652,752
13: 2,652,753
95— 1.1: 2,652,754
4.5: 2,652,755
6: 2,653,091
64: 2,652,756
70: 2,652,757
80: 2,652,758
94: 2,652,759
97— 44: 2,652,760
46.95: 2,652,761
47.5: 2,652,762
98— 10: 2,652,763
55: 2,652,764
99— 48: 2,653,092
82: 2,653,093
2,653,094
2,653,095
2,653,096
2,653,097
2,653,098
2,653,099
2,653,100
2,653,101
2,653,102
2,653,103
2,653,104
129: 2,653,105
131: 2,653,106
345: 2,652,765
349: 2,652,766
406: 2,652,767
417: 2,652,768
100— 131: 2,652,769
282: 2,652,770
101— 38: 2,652,771
72: 2,652,772
100: 2,652,773
320: 2,652,774
102— 27: 2,652,775
56: 2,652,776
70: 2,652,777
103— 1: 2,652,778
46: 2,652,779
47: 2,652,780
54: 2,652,781
115: 2,652,782
104— 31: 2,652,783
32: 2,652,784
105— 29: 2,652,785
197: 2,652,786
377: 2,652,787
106— 57: 2,653,107
106— 189: 2,653,108
107— 4: 2,652,788
8: 2,652,789
15: 2,652,790
57: 2,652,791
110— 28: 2,652,792
99: 2,652,793
112— 41: 2,652,794
158: 2,652,795
160: 2,652,796
210: 2,652,797
226: 2,652,798
256: 2,652,799
280: 2,652,800
113— 12: 2,652,801
115— 17: 2,652,802
25: 2,652,803
116— 135: 2,652,804
117—33.5: 2,653,109
36: 2,653,110
65: 2,653,111
71: 2,653,112
138.8: 2,653,113
118— 19: 2,652,805
410: 2,652,806
119— 3: 2,652,807
52: 2,652,808
114: 2,652,809
189: 2,652,810
121— 20: 2,652,811
38: 2,652,812
41: 2,652,813
122— 189: 2,652,814
123— 25: 2,652,815
41.12: 2,652,816
68: 2,652,817
119: 2,652,818
2,652,819
124— 8: 2,652,820
13: 2,652,821
27: 2,652,822
126— 110: 2,652,823
208: 2,652,824
127— 7: 2,653,114
128— 2: 2,652,825
33: 2,652,826
132: 2,652,827
146: 2,652,828
170: 2,652,829
205: 2,652,830
214: 2,652,831
340: 2,652,832
129— 16: 2,652,833
131— 15: 2,652,834
2,652,835
181: 2,652,836
240: 2,652,837
241: 2,652,838
132—36.2: 2,652,839
42: 2,652,840
134— 9: 2,653,115
10: 2,653,116
46: 2,652,841
90: 2,652,842
116: 2,652,843
188: 2,652,844
135— 1: 2,652,845
136— 4: 2,653,178
24: 2,653,179
25: 2,653,180
137— 91: 2,652,846
103: 2,652,847
110: 2,652,848
147: 2,652,849
218: 2,652,850
222: 2,652,851
416: 2,652,852
577: 2,652,853
2,652,854
614.19: 2,652,855
657: 2,652,856
701: 2,652,857
737: 2,652,858
786: 2,652,859
138— 126: 2,652,860
352: 2,652,861
143— 6: 2,652,862
36: 2,652,863
46: 2,652,864
143: 2,652,865
144.5: 2,652,866
208: 2,652,867
2,652,868
241: 2,652,869
281: 2,652,870
146— 6: 2,652,871
28: 2,652,872
148— 12: 2,653,117
150— 47: 2,652,873
52: 2,652,874
2,652,875
152— 210: 2,652,876
153— 91: 2,652,877
154— 28: 2,652,878
42: 2,652,879
43: 2,653,118
46: 2,653,119
53: 2,653,120
155— 51: 2,652,880
85: 2,652,881
105: 2,652,882
131: 2,652,883
147: 2,652,884
179: 2,652,885
182: 2,652,886
188: 2,652,887
158— 28: 2,652,888
91: 2,652,889
116: 2,652,890
161— 1: 2,652,891
164— 61: 2,652,892
118: 2,652,893
166— 12: 2,652,894
14: 2,652,895
167—87.1: 2,653,121
170—135.74: 2,652,896
159: 2,652,897
160.25: 2,652,898
174— 35: 2,653,181
178— 5.2: 2,653,182
2,653,183
5.6: 2,653,184
6.8: 2,653,185
7.1: 2,653,186
30: Re. 23713
60.5: 2,653,187
179— 2.5: 2,653,188
100.2: 2,653,189
2,653,190
100.41: 2,653,191
103: 2,653,192
156: 2,653,193
171: 2,653,194
178: 2,653,195
181— 42: 2,652,899
183— 7: 2,652,900
15: 2,652,901
37: 2,652,902
187— 29: 2,652,903
188— 3: 2,652,904
204: 2,652,905
189— 1.5: 2,652,906
46: 2,652,907
190— 58: 2,652,908
2,652,909
192— 4: 2,652,910
61: 2,652,911
68: 2,652,912
87: 2,652,913
150: 2,652,914
193— 35: 2,652,915
194— 63: 2,652,916
196— 17: 2,653,122
2,653,123
20: 2,653,124
2,653,125
197— 57: 2,652,917
175: 2,652,918
198— 208: 2,652,919
230: 2,652,920
200— 31: 2,653,196
209—61.87: 2,653,197
67: 2,653,198
87: 2,653,199
105: 2,653,200
109: 2,653,201
116: 2,653,202
120: 2,653,203
146: 2,653,204
153: 2,653,205
201— 48: 2,653,206
56: 2,653,207
204— 2: 2,653,126
43: 2,653,127
2,653,128
206—45.19: 2,652,921
50: 2,652,922
209— 134: 2,652,923
160: 2,652,924
210— 1.5: 2,652,925
13: 2,653,129
94: 2,652,926
197: 2,652,927
2,652,928
201: 2,652,929
211— 50: 2,652,930
214— 1: 2,652,931
5.5: 2,652,932
6: 2,652,933
8.5: 2,652,934
17: 2,652,935
78: 2,652,936
98: 2,652,937
2,652,938
140: 2,652,939
145: 2,652,940
216— 13: 2,652,941
218— 2: 2,652,942
219— 2: 2,653,208
4: 2,653,209
10: 2,653,210
2,653,211
2,653,212
19: 2,653,213
43: 2,653,214
220— 3: 2,652,943
18: 2,652,944
40: 2,652,945
41: 2,652,946
60: 2,652,947
222— 26: 2,652,948
95: 2,652,949
100: 2,652,950
142.1: 2,652,951
180: 2,652,952
250: 2,652,953
282: 2,652,954
327: 2,652,955
223— 65: 2,652,956
92: 2,652,957
94: 2,652,958
105: 2,652,959
226— 14: 2,652,960
23: 2,652,961
46: 2,652,962
80: 2,652,963
82: 2,652,964
124: 2,652,965
227— 46: 2,652,966
228— 29: 2,652,967
229— 28: 2,652,968
33: 2,652,969
37: 2,652,970
52: 2,652,971
55: 2,652,972
230— 52: 2,652,973
254: 2,652,974
233— 15: 2,652,975
235— 61: 2,652,976
2,652,977
2,652,978
2,652,979
236— 86: 2,652,980
238— 9: 2,652,981
349: 2,652,982
240— 7.55: 2,653,215
10: 2,653,216

240—10. 63: 2,653,218
52: 2,653,217
54: 2,653,219
241— 98: 2,652,983
135: 2,652,984
266: 2,652,985
242— 9: 2,652,986
43: 2,652,987
54: 2,652,988
68: 2,652,989
84. 5: 2,652,990
84. 7: 2,652,991
124: 2,652,992
2,652,993
244— 83: 2,652,994
2,652,995
121: 2,652,996
248— 26: 2,652,997
30: 2,652,998
42: 2,652,999
168: 2,653,000
206: 2,653,001
291: 2,653,002
250— 3: 2,653,220
6: 2,653,221
13: 2,653,222
17: 2,653,223
20: 2,653,224
2,653,225
2,653,226
2,653,227
2,653,228
2,653,229
27: 2,653,230
2,653,231
2,653,232
2,653,233
2,653,234
2,653,235
2,653,236

250— 27: 2,653,237
33. 57: 2,653,238
33. 63: 2,653,239
33. 65: 2,653,240
2,653,241
36: 2,653,242
2,653,243
2,653,244
58: 2,653,245
62: 2,653,246
71: 2,653,247
83. 3: 2,653,248
90: 2,653,249
251— 87: 2,653,003
103: 2,653,004
122: 2,653,005
252— 8: 2,653,130
22: 2,653,131
42: 2,653,132
51. 5: 2,653,133
101: 2,653,134
338: 2,653,135
2,653,136
2,653,137
430: 2,653,138
254— 131: 2,653,006
255— 1. 6: 2,653,007
27: 2,653,008
28: 2,653,009
64: 2,653,010
256— 25: 2,653,011
257— 8: 2,653,012
241: 2,653,013
2,653,014
259— 81: 2,653,015
260— 2. 5: 2,653,139
17. 3: 2,653,140
18: 2,653,141
26: 2,653,142
67. 7: 2,653,143

260— 77. 5: 2,653,144
83. 5: 2,653,145
85. 5: 2,653,146
96. 5: 2,653,147
145: 2,653,148
146: 2,653,149
152: 2,653,150
210: 2,653,151
240. 4: 2,653,152
268: 2,653,153
305: 2,653,154
326: 2,653,155
404: 2,653,156
2,653,157
2,653,158
437: 2,653,159
442: 2,653,160
461: 2,653,161
468. 6: 2,653,162
471: 2,653,163
473: 2,653,164
475: 2,653,165
482: 2,653,166
514: 2,653,167
544: 2,653,168
561: 2,653,169
563: 2,653,170
578: 2,653,171
601: 2,653,172
614: 2,653,173
648: 2,653,174
666: 2,653,175
672: 2,653,176
683. 15: 2,653,177
261— 35: 2,653,016
72: 2,653,017
114: 2,653,018
264— 1: 2,653,019
3: 2,653,020
267— 64: 2,653,021

268— 49: 2,653,022
271— 2. 5: 2,653,023
2. 6: 2,653,024
273— 35: 2,653,025
105. 4: 2,653,026
134: 2,653,027
275— 3: 2,653,028
279— 53: 2,653,029
104: 2,653,030
280— 33. 1: 2,653,031
33. 8: 2,653,032
44: 2,653,033
104. 5: 2,653,034
2,653,035
166: 2,653,036
258: 2,653,037
281— 44: 2,653,038
282— 27: 2,653,039
285— 90: 2,653,040
97. 3: 2,653,041
129: 2,653,042
290— 4: 2,653,260
292— 78: 2,653,043
108: 2,653,044
109: 2,653,045
337: 2,653,046
359: 2,653,047
294— 99: 2,653,048
295— 1: 2,653,049
95: 2,653,050
297— 15: 2,653,051
298— 18: 2,653,052
299— 95: 2,653,053
118: 2,653,054
148: 2,653,055
300— 21: 2,653,056
301— 13: 2,653,057
302— 57: 2,653,058
306— 33: 2,653,059
42: 2,653,060

307— 11: 2,653,251
64: 2,653,252
65: 2,653,253
88: 2,653,254
308— 4: 2,653,061
73: 2,653,062
184: 2,653,063
187: 2,653,064
309— 7: 2,653,065
310— 64: 2,653,255
76: 2,653,256
166: 2,653,257
234: 2,653,258
311— 99: 2,653,066
312— 28: 2,653,067
73: 2,653,068
89: 2,653,069
218: 2,653,070
325: 2,653,071
330: 2,653,072
313— 31: 2,653,259
32: 2,653,260
33: 2,653,261
75: 2,653,262
78: 2,653,263
193: 2,653,264
2,653,265
312: 2,653,266
245: 2,653,267
346: 2,653,268
314— 61: 2,653,269
315— 3: 2,653,270
5: 2,653,271
2,653,272
6: 2,653,273
26: 2,653,274
40: 2,653,275
2,653,276
130: 2,653,277
336: 2,653,278

317— 135: 2,653,279
165: 2,653,280
260: 2,653,281
318— 21: 2,653,282
46: 2,653,283
56: 2,653,284
227: 2,653,285
246: 2,653,286
249: 2,653,287
2,653,288
257: 2,653,289
309: 2,653,290
370: 2,653,291
381: 2,653,292
321— 25: 2,653,293
324— 10: 2,653,294
33: 2,653,295
51: 2,653,296
2,653,297
65: 2,653,298
95: 2,653,299
333— 13: 2,653,300
24: 2,653,301
336— 134: 2,653,302
339— 80: 2,653,303
217: 2,653,304
340— 15: 2,653,305
17: 2,653,306
23: 2,653,307
187: 2,653,308
228: 2,653,309
343— 5: 2,653,310
7. 7: 2,653,311
11: 2,653,312
2,653,313
106: 2,653,314
179: 2,653,315
346— 107: 2,653,073

CLASSIFICATION OF DESIGNS

D 3—16: Des. 170,457
32: Des. 170,453
D 6— 2: Des. 170,467
D 9— 2: Des. 170,468
6: Des. 170,460
D14— 3: Des. 170,448
6: Des. 170,482
30: Des. 170,463
Des. 170,464

D15— 1: Des. 170,471
D23— 1: Des. 170,446
D26—14: Des. 170,450
D29— 1: Des. 170,461
23: Des. 170,475
D33— 8: Des. 170,458
Des. 170,473
D34— 5: Des. 170,469
D44—29: Des. 170,484

D45— 4: Des. 170,465
Des. 170,476
Des. 170,478
9: Des. 170,442
D47— 7: Des. 170,485
D48—20: Des. 170,443
Des. 170,444
Des. 170,445
24: Des. 170,481

D49— 1: Des. 170,470
D52— 2: Des. 170,440
D54—12: Des. 170,441
Des. 170,455
Des. 170,474
13: Des. 170,466
D56— 4: Des. 170,439
D58— 7: Des. 170,462
9: Des. 170,459

D58—26: Des. 170,454
D59— 2: Des. 170,449
D61— 1: Des. 170,483
Des. 170,486
D62— 2: Des. 170,451
Des. 170,452
D72— 1: Des. 170,457
D74— 1: Des. 170,456
D81—10: Des. 170,480

D81—19: Des. 170,488
D87— 3: Des. 170,469
Des. 170,477
D91— 1: Des. 170,472
3: Des. 170,447
D92— 1: Des. 170,479

U. S. GOVERNMENT PRINTING OFFICE: 1953

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

EUREKA WILLIAMS CORP. *v.* McCORQUODALE

No. 5917. Decided June 3, 1953

[— F.2d —; 98 USPQ 138]

1. TRADE-MARKS—CONFUSION OF THE PUBLIC—DECISIONS NOT BASED ON PRECEDENT.

Rule restated that since the question of whether or not similarity between marks will result in confusion in trade is an intensely practical question to be determined only after a careful and independent analysis of the particular facts and circumstances involved in each case, holdings in current cases as to similarity are seldom influenced by, or based upon precedent.

2. SAME—ACT OF 1946—NATURE OF GOODS CONSIDERED IN DETERMINING CONFUSION.

"While the Trade-Mark Act of 1946, under which these proceedings were instituted, does not require, as a condition precedent to a finding of confusing similarity, that the products of the parties possess the same descriptive properties, such a finding is manifestly a major factor in determining that issue."

3. APPEAL TO U. S. COURT OF CUSTOMS AND PATENT APPEALS—RECORD ON APPEAL—STIPULATION DOES NOT FORECLOSE COURT FROM OBSERVING APPARENT DIFFERENCES IN GOODS.

Held that a stipulation in the record, to the effect that the goods of the parties possess the same descriptive properties, "—cannot foreclose the right of the reviewing court to point out and observe perfectly obvious differences, which actually exist and which we feel were not intended to be overlooked because of a strict limitation that might be drawn from the language of such a stipulation."

4. TRADE-MARKS—OPPOSITION TO REGISTRATION—"HOTOMATIC."

The decision of the Commissioner of Patents acting through Examiner-in-Chief, holding that the mark "Hotomatic" is not confusingly similar to appellee's mark "Oil-O-Matic," is affirmed.

APPEAL from the Patent Office. Opposition No. 27,778.

AFFIRMED.

O'CONNELL, *J.*, dissenting.

E. J. Belluff (*Francis D. Thomas* and *Wm. Wallace Cochran* of counsel) for Eureka Williams Corporation.

Wilmer E. McCorquodale, Jr. and *Theodore E. Simonton* for Wilmer E. McCorquodale.

COLE, *Judge*:

The appellee has sought to register "Hotomatic" as a trade-mark in connection with the sale of automatic gas water heaters, establishing continuous use thereof since 1928. In opposition, the appellant has set forth his prior registrations, and antedating usage since 1920 of the mark, "Oil-O-Matic" as applied to liquid fuel burning devices and automatic electrically controlled and operated fuel heating systems.

It being stipulated that the products above mentioned possess the same descriptive properties, appellant contends that the respective marks are confusingly similar and thus, if used concurrently, likely to deceive or mislead prospective purchasers.[1] The record discloses that the applicant was prior in time in the adoption and use of his "Hotomatic" mark on domestic water heaters (instantaneous and thermostatically controlled) and that the opposer, although a leader in the field of automatic heating equipment, did not market a device specifically designed for domestic heating of water until 1953, registering his mark therefor that same year. Appellant alleges, however, by a display of advertising circulars reproduced in the record, that the oil burning devices bearing its "Oil-O-Matic" mark, in trade prior to 1928, were designed for a dual purpose, i. e., to heat the home and also to provide hot water for use therein. In answer to that contention, the Examiner-in-Chief held that as the circulars were undated, they were of no avail and with this finding we are in accord.

The Examiner of Interferences sustained the position taken by the opposer, but on appeal the Examiner-in-Chief found sufficient dissimilarity to exist so as to negative the possibility of confusion in trade. From that decision, the opposer has taken an appeal to this court.

The case was originally argued before us on November 10, 1952, and on January 14, 1953, we rendered our decision which affirmed the decision of the Examiner-in-Chief. Appellant filed a petition for rehearing within the statutory period, and the petition being granted, reargument was had thereon May 11, 1953.

[1] Trade-Mark Act of 1946 (Section 2)
No trade-mark by which the goods of the applicant may be distinguished from the goods of others shall be refused registration on the Principal Register on account of its nature unless it—(*d*) Consists of or comprises a mark which so resembles a mark registered in the Patent Office or a mark or trade name previously used in the United States by another and not abandoned, as to be likely, when applied to the goods of the applicant, to cause confusion or mistake or to deceive purchasers: * * *

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As stated in the record, we are called upon to determine whether or not "Hotomatic" bears such near resemblance to the previously adopted mark, "Oil-O-Matic" as, when applied to applicant's goods, will result or likely result in confusion, mistake or deception of purchasers.

It appears that the Examiner-in-Chief was largely influenced in his opinion by the decision of the Assistant Commissioner in the case of *Eureka Williams Corporation* v. *Willoughby Machine & Tool Company*, 86 USPQ 170. That case, decided under the provisions of the Trade-Mark Act of 1905, involved the present appellant's previously registered mark, "Oil-O-Matic" for oil burners, as opposed to registration of the applicant's newly adopted mark, "Thermomatic." The goods of the applicant consisted of thermostatically controlled, gas conversion burners for domestic, commercial, and industrial heating purposes, so that the respective goods were in the same general descriptive class. The Assistant Commissioner determined that the marks, when considered in their entirety, were dissimilar and that no likelihood of confusion as to the origin of the goods was apt to result.

On appeal here, we reversed that holding by a divided court. *Eureka Williams Corporation* v. *Willoughby Machine & Tool Company*, 39 CCPA (Patents) 832, 194 F.2d 543, 93 USPQ 12.

[1] Appellant relies on our decision in that case as authority for the proposition that the marks here in issue are also too nearly alike to allow their concurrent usage in trade. We do not regard our decision therein as decisive of the issues here. As we have stated many times in the past, the controlling value of cases previously decided in the field of trade-mark law is limited to the principles of such law and beyond that may not be extended, unless sufficient parallel in the factual basis is recognized. Manifestly, whether or not similarity between marks, if it exists, will result in confusion in trade is an intensely practical question to be determined only after a careful and independent analysis of the particular facts and circumstances involved in each case. Expressing it another way holdings in current cases as to similarity are seldom influenced by, or based upon precedent. This principle has been in effect throughout trade-mark jurisprudence and finds reaffirmance as late as *Kanmak Textiles, Inc.* v. *Carnac, Inc.*, 38 CCPA (Patents) 1148, 189 F 2d 1006, 90 USPQ 105; *Kensington Steel Co.* v. *Nichols Engineering and Research Corporation*, 38 CCPA (Patents) 979, 188 F.2d 397, 89 USPQ 330.

While it is true that "Omatic" or "Matic" is not to be considered as exclusively appropriated to appellant's trade-mark use, it is also true that a prefix sought to be used in combination therewith must be sufficiently distinctive and employed in such association as will obviate the likelihood of confusion as to the origin of the goods. Particularly is such a principle applicable when the respective goods of the parties are identical or closely related. It must, however, be constantly borne in mind that a trade-mark is to be viewed as an entirety, and the general impression it makes upon the purchasing public as such, when measured in the light of another's mark, carefully appraised. In this respect, whether trade confusion will likely result from the concurrent trade usage of two or more marks alleged to be deceptively similar is largely a matter of individual judgment, and such factors as appearance, sound, and significance must be appropriately weighed.

The appellee herein urges that "Hotomatic" is not confusingly similar to "Oil-O-Matic" and emphasizes the difference in sound, meaning, and connotation in the prefix portion of his mark when compared to that of opposer. Furthermore, the appellee argues that there are specific differences of a substantial nature between the products of the parties which, coupled with the dissimilarity of the marks, negatives a likelihood of trade confusion. Considering the respective marks as a whole, and noting the type of goods to which each is affixed, we must conclude that the marks in issue are not confusingly similar.

What the law intends to prevent is "one person from passing off his goods or his business as the goods or business of another." *American Steel Foundries* v. *Robertson, Commissioner, et al.*, 269 U. S. 372. [2] While the Trade-Mark Act of 1946, under which these proceedings were instituted, does not require as a condition precedent to a finding of confusing similarity, that the products of the parties possess the same descriptive properties, such a finding is manifestly a major factor in determining that issue.

Here, the goods are not identical but are somewhat related and fall within the same general class of heating apparatus. That is all. The appellee, in his brief, after discussing the *Willoughby* case, supra, makes the following statement:

> In contrast, the appellee in the case now before the court adopted the mark HOTOMATIC in 1928 and applied it to a product having a function (domestic water heating) different from the function of the devices then marketed by appellant's predecessor. It was not until several years later (January 13, 1933) that appellant entered the field of domestic water heating as shown by its Registration 304,965. Unlike the appellee in the Willoughby case, the appellee here was not a newcomer in a field already occupied by the appellant but in fact was the first to use an OMATIC mark in this particular field.
>
> The first point of distinction in facts thus is that in the present case the goods of the parties are substantially different, whereas in the Willoughby case the goods were closely similar and competitive with each other.

With this statement, we agree.

[3] We granted a rehearing in this case following release of the initial opinion because appellant's counsel was evidently under the impression that our comparison of the goods of the respective parties was to be construed and accepted as being in violation of the stipulation to which we have hereinbefore referred. In finding the marks "Hotomatic" and "Oil-O-Matic" not confusingly similar, we have not ignored the stipulation in the record to the effect that the goods involved possess the same descriptive properties. Such a stipulation, however, cannot foreclose the right of the reviewing court to point out and observe perfectly obvious differences, which actually exist, and which we feel were not intended to be overlooked because of a strict limitation that might be drawn from the language of such a stipulation.

Appellee's product is an ordinary water heater, the like of which we have common knowledge, and is designed to consume gas as a fuel. Appellant's product is a heating device for the home and, as the name implies, uses oil. The two are by no means alike in use and characteristics.

We find it quite easy to deny the opposition plea herein, determining as we do that the mark "Hotomatic," as applied to appellee's goods, is not confusingly similar to appellant's previously adopted mark, "Oil-O-Matic."

The rehearing granted in this case, followed by further oral argument and a memorandum on behalf of the appellant, has been given every consideration. We have found no reason, however, to disturb the conclusion reached herein.

[4] For the reasons hereinbefore stated, the decision appealed from is affirmed.

AFFIRMED.

At the rehearing of this case, JACKSON, *J.*, retired, was recalled to participate in place of GARRETT, *C. J.*

O'CONNELL, *J.* (dissenting):

Appellee appropriated "Omatic," the dominant feature of appellant's widely advertised mark, and combined that suffix with the descriptive prefix "Hot" to form the compound trade-mark "Hotomatic," under which he sells automatic gas-burning hot water heaters. The late Judge Hatfield branded procedure of that kind as illegal in the case of *The Bon Ami Co.* v. *McKesson & Robbins, Inc.*, 25 CCPA (Patents) 826, 93 F.2d 915, 36 USPQ 260, where he pointed out:

> If all that a newcomer in the field need do in order to avoid the charge of confusing similarity is to select a word descriptive of his goods and combine it with a word which is the dominant feature of a registered trade-mark so that the borrowed word becomes the dominant feature of his mark, the registered trade-mark, made valuable and outstanding by extensive advertising and use, soon becomes of little value, and, of course, each of the subsequent imitating trade-marks (and there would be many) is of value only to the extent that its users are trading on the good will of the owner of the original registered trade-mark.

"Warm-Ever," a term used in the sale of hot water heaters, was denied registration as a trade-mark merely descriptive of the heater, its character, use, or quality[1] in the case of *In re Locke Stove Company*, 33 CCPA (Patents) 934, 154 F.2d 200, 69 USPQ 108, where this court unanimously affirmed the concurring decisions of the tribunals of the Patent Office, and in so doing Judge Jackson stated:

> We think it clear that the term sought to be registered in relation to its application to the heater can have no other meaning but that one could have warm or hot water whenever one wished, and that it is not necessary to remake the fire as often as the water is needed. This, it seems to us, is the immediate and obvious impression to be derived from appellant's mark as he is using it. It does not require any particular mental effort or reasoned thinking to arrive at such impression.

There is a controlling stipulation here to the effect that the goods of the parties are goods of the same descriptive properties. Judge Garrett pointed out, when this court early rejected "Coal-O-Matic" as confusingly similar to appellant's "Oil-O-Matic" in *Roy Cross* v. *Williams Oil-O-Matic Heating Corp.*, 18 CCPA (Patents) 1192, 1198, 48 F.2d 659, 9 USPQ 146, that in such a case "the issue is not whether oil and coal are of the same descriptive properties; but whether the devices that feed them into the furnace are."

Moreover, our recent decision in the case of *Eureka Williams Corp.* v. *Willoughby Machine Tool Co.*, supra, should be controlling here despite the discussion to the contrary in the prevailing opinion. Inherent in the court's failure to follow that precedent is the implication that appellant is entitled to no monopoly with respect to its long and extensively used mark "Oil-O-Matic" or any part thereof.

During the hearings leading to the enactment of the act of 1946, the proposition was advanced in certain quarters that any concern owning a trade-mark of world-wide reputation for forty or fifty years has had the mark long enough and should be required to share it with competitors.[2] That concept was wholly rejected by Congress, but the same result might well be effected by refusal to acknowledge the validity of a proper trade-mark. B. W. Pattishall, writing on *Trade-Marks and the Monopoly Phobia*, 50 Mich. Law Rev. 967 (1952) made this contribution to current trade-mark literature:

> • • • the "restrictionist" trends and the contradictions found in many recent trade identification decisions are often traceable to misconceptions derived from the current "monopoly phobia," which have no logical relation to the true rights and considerations involved. Abetting this misguided and destructive reasoning are the false "sign posts" provided by the traditional words and phrases such as "infringement," "property" and "ownership" as well as the deep seated "intrinsic value" notion. Yet the problem presented in almost any trade identification case is the simple one: *Has there been or is there likely to be an invasion or violation of an individual trade identity?* If so, decency and the public interest demand that it be prevented *inasmuch as deception is likely*; that is, within the scope of likelihood of confusion. No more is needed—no more should be sought; but too often today these simple fundamentals are lost in a maze of semantic analysis and unwarranted concern for wrongful monopoly or special privilege.
>
> Is it not past time to free the law of commercial identity from the error which threatens to engulf it, and to recognize as well "that business should be conducted as games are played among gentlemen?"

Members of the bar and of various legal and trade associations are not unaware of the fact that due to a fundamental change in the prevailing philosophy of the majority, this court, in general, has now reversed its former position with respect to similar or identical trade-marks the use of which by the newcomer has been challenged as deceptive and misleading for the purpose of trading on the

---

[1] See *Beckwith* v. *Commissioner of Patents*, 252 U. S. 538; *Burmal Handkerchief Corp.* v. *Olcott, Peabody & Co., Inc.*, 29 CCPA (Patents) 1024, 127 F.2d 318, 53 USPQ 369; *Model Brassiere Co., Inc.* v. *Bromley-Shepard Co., Inc.*, 18 CCPA (Patents) 1294, 49 F.2d 482, 9 USPQ 238; Sec. 2 and 2(e), act of 1946; Robert, "The New Trade-Mark Manual," page 60.

[2] See *The Alligator Co.* v. *Lerus & Bro. Co., Inc.*, 39 CCPA (Patents) 939, 951, 196 F.2d 532, 93 USPQ 436; "Introduction," by Edward S. Rogers, page xi, Robert, "The New Trade-Mark Manual."

good will built up at great expense by the owner of the original mark in issue. Appellant makes this notable assertion in his brief:

> While the Lanham Act was heralded as offering trade-mark owners unprecedented protection, an analysis of cases decided by this court shows that in the approximately five and one-half years before the Lanham Act became effective, this court sustained 48 out of 66 oppositions—over 70%—involving issues of similarity of the marks or similarity of the class of goods, whereas in the approximately five and one-half years since the act became effective, this court has dismissed 38 out of 57 oppositions involving such issues—about 66% of such cases.

The Lanham Act by its explicit provisions intended that the law of unfair competition should be applied in trade-mark litigation in order to promote the ends of justice. The Supreme Court in *Champion Plug Co.* v. *Sanders*, 331 U. S. 125, 130, held that "the character of the conduct giving rise to unfair competition is relevant to the remedy which should be afforded."

Conduct which constitutes unfair competition may be remedied by injunction and/or the award of damages by courts of equity. Those remedies, however, do not eliminate the right of this court to apply the law in a proper case against an applicant for registration. Robert, in the The New Trade-Mark Manual, at page 205 remarks:

> • • • But in determining the right of an applicant to register his mark, it would not seem to be out of keeping with the purpose and intent of the act for the tribunals to consider such acts of the applicant as would affect his right to register, including his own misconduct (or "unclean hands") in the use of the mark. *This is particularly true since the act gives him new and substantive rights in his registration.* [Italics supplied.]

"Generally speaking • • • in all cases of unfair competition it is the principles of old fashioned honesty which are controlling, *Jewel Tea Co., Inc.* v. *Kraus*, 187 F.2d 278, 282; *Sinko* v. *Snow-Craggs Corporation*, 105 F.2d 450, 42 USPQ 298. Sections 44 (*h*) and (*i*) of the act of 1946 provide that owners of trade-marks, foreign and domestic, shall be entitled to the benefits of the law of unfair competition.

Additional views expressed in the prevailing opinion have been thoroughly discussed by me in other cases and I rely upon them here as part of this opinion. See *Eureka Williams Corp.* v. *Kres-Kno Oil Burner Co.*, 40 CCPA (Patents) —, — F.2d —, 97 USPQ 138; *Irma Hosiery Co.* v. *Schulman*, 40 CCPA (Patents) —, — F.2d —, 96 USPQ 368; *Continental Coffee Co., Inc.* v. *Continental Foods, Inc.*, 40 CCPA (Patents) —, — F.2d —, 97 USPQ 162. See also "The Right to Use and the Right to Register—The Trade-Mark Anomaly," by Julius R. Lunsford, Jr., published in the January 1953 issue of "The Trade-Mark Reporter," pp. 1–23.

If the recent decision and judgment of this court in *Willoughby*, supra, which held "Thermomatic" and "Oil-O-Matic" to be confusingly similar for automatic fuel burning devices, is not to be regarded here as a binding precedent because the judgment there was rendered by "a divided court," what about the value as a controlling precedent here of the decision and judgment in the case of *Roy Cross* v. *Williams Oil-O-Matic Heating Corp.*, supra, in which this court held, unanimously, that "Coal-O-Matic" was confusingly similar to "Oil-O-Matic" when likewise concurrently used on automatic fuel burning devices?

For the reasons and autorities herein cited, the decision of the Commissioner of Patents should be reversed.

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,105,294. (See Re. 21,566.)

2,188,932. (See Re. 21,566.)

2,304,081. (See 2,480,571.)

2,337,856, Rice & Hatch, Process of retarding the corrosion of metal by water, filed June 29, 1953, C. C. A., 4th Cir. (Richmond), Doc. 6641, *The Springs Cotton Mills, Inc.* v. *Hall Laboratories, Inc.*

2,338,372, K. A. Wright, Method for conditioning well bores; 2,374,317, same, Well production equipment; 2,392,352, same, Method of placing a cement plug in a well bore, filed June 23, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15646–WM, *Baker Oil Tools, Inc.* v. *B. & W., Inc.*

2,374,317. (See 2,338,372.)

2,376,128, F. F. Dauenhauer, Pocket trommel; 2,587,604, same, Traveling mesh cluster picker, leaf and stem separator, filed June 22, 1953, D. C. Oreg. (Portland), Doc. 7040, *F. F. Dauenhauer* v. *A. J. Haener & Sons.*

2,392,352. (See 2,338,372.) 2,406,760. (See 2,480,571.)

2,480,571, 2,304,081, 2,406,760, P. C. Goldmark, Color television, D. C., S. D. N. Y., Doc. 63/350, *Columbia Broadcasting System, Inc.* v. *Allen B. Du Mont Laboratories, Inc.* Stipulation and order of dismissal June 26, 1953.

2,502,632, B. Platt, Soft-sided hand luggage having shape-retaining end walls, D. C., N. D. Ill. (Chicago), Doc. 53c1169, *Platt Luggage, Inc.* v. *Supreme Leather Goods Co.* Consent judgment enjoining defendants June 19, 1953.

2,554,497, F. D. Moyer, Seal hanger for a floating roof, filed June 26, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1454, *Chicago Bridge & Iron Co.* v. *Grove Tank & Mfg. Co., Inc.*

2,570,110, H. Glatt, Ironing pad cover, filed June 26, 1953, D. C., S. D. N. Y., Doc. 86/106, *Magla Products* v. *Notion Accessories, Inc.*

2,587,604. (See 2,376,128.)

2,597,695, Braski & Schwaneke, Cooking utensil; Des. 165,596, J. Morgan, Deep fat fryer, filed June 3, 1953, D. C., E. D. Mich. (Bay City), Doc. 1273, *Dormeyer Corp.* v. *W. R. Kenpp & Co.*

2,619,589. (See Re. 23,651.)

Re. 21,566, L. D. Anderson, Process of concentrating ores; 2,105,294, A. J. Weinig, Temperature control in a flotation process; 2,188,932, same, Flotation process for sylvinite ores, D. C. N. Mex. (Albuquerque), Doc. 1829, *Potash Co. of America* v. *International Minerals & Chemical Corp. of N. Y.* Order dismissing cause (notice June 10, 1953).

Re. 23,327, D. J. Baker, Pickup with reed of magnetic material, filed June 24, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15650–WM, *D. J. Baker* v. *General Electric Co. et al.*

Re. 23,651 (of 2,619,589), R. R. Florac, Radio receiver, filed June 24, 1953, D. C. Oreg. (Portland), Doc. 7050, *Aircall, Inc.* v. *Radiocall of America, Inc.*

Des. 165,596. (See 2,597,695.)

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946

T. M. 212,808, Sylvania Products Co., Radio tubes; T. M. 254,018, same, Incandescent electric lamps; T. M. 405,339, same, Electric energy translating devices; T. M. 406,002, same, Electric lamps for special purposes; T. M. 536,749, same, Television receiving sets, etc.; T. M. 537,867, same, Television antennas; T. M. 546,718, same, Periodicals, D. C. District of Columbia, Doc. 5304–52, *Sylvania Electric Products, Inc.* v. *Bond Vacuum Stores, Inc.* Judgment (notice June 25, 1953.)

T. M. 254,018. (See T. M. 212,808.)

T. M. 405,339. (See T. M. 212,808.)

T. M. 406,002. (See T. M. 212,808.)

T. M. 536,749. (See T. M. 212,808.)

T. M. 537,867. (See T. M. 212,808.)

T. M. 546,718. (See T. M. 212,808.)

T. M. 568,258, International Electric Co., Electric fence and electric fence controllers, filed June 24, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1440, *International Electric Co.* v. *Smith & Green Hardware.*

NOTICES

Classification Bulletins Nos. 411 and 412

The Classification Bulletins containing the following Classification Orders pertaining to the classification of subjects of invention revised by the Classification Group of the U. S. Patent Office are now available and copies may be obtained from the Commissioner of Patents at the prices indicated:

Class	Order No.	Title	Bulletin No.	Price
	140 thru 143	Miscellaneous	411	$ .90
339	144	Electrical Connectors	412	.35

Adjudicated Patent

(C. A. Ill.) Hopkins Design Patent No. 156,008, for a baggage rack, *Held* invalid. *Hopkins, doing business as Lake City Products* v. *Weco Products, Inc.*; *Alan's Sales Engineers, Inc.* v. *Hopkins*, 205 F.2d 221; 98 USPQ 51.

Disclaimers

2,554,500.—*Donald H. Preist*, Tiburon, Calif. ELECTRON TUBE RADIO FREQUENCY GENERATOR. Patent dated May 29, 1951. Disclaimer filed Aug. 25, 1953, by the inventor, the assignee, *Eitel-McCullough, Inc.* assenting and joining in.

Hereby enter this disclaimer to claims 3, 4, 6, and 7 of said patent.

2,589,704.—*William E. Kirkpatrick*, Chatham, and *Raymond W. Sears*, West Orange, N. J. SEMICONDUCTOR SIGNAL TRANSLATING DEVICE. Patent dated Mar. 18, 1952. Disclaimer filed July 27, 1953, by the joint patentees, the assignee, *Bell Telephone Laboratories, Incorporated*, joining in.

Hereby enter this disclaimer to claims 3 and 6 of said patent.

Classification Order No. 149

August 20, 1953

IN THE MANUAL OF CLASSIFICATION:

ABOLISH SUBCLASSES

In *Class 200, Electricity, Circuit Makers and Breakers* (Division 37)

53 Valve
54 Door or sash
55 Lock
57 Letter box
58 Tire
59 Lever or wheel shaft

ESTABLISH SUBCLASSES

In *Class 200, Electricity, Circuit Makers and Breakers* (Division 37)

(W. F. PURDY, A. RUDOG, JR., F. R. REILLY, *Classifiers*)

Special application
- 61.01 Sound wave responsive (to follow subclass 61)
- 61.02 Light responsive
- 61.03 Gas or smoke responsive
- 61.04 Liquid or moisture responsive
- 61.05 Conducting liquid
- 61.06 Humidity responsive
- 61.07 Weight of absorbed water
- 61.08 Frangible or destructible type
- 61.09 Tramp metal actuated
- 61.1 Game or amusement piece operated
- 61.11 Ball (e. g., pin ball)
- 61.12 Bicycle chain, sprocket or brake actuated
- 61.13 Running length, web or strand actuated
- 61.14 Actuator attached to or part of web or strand
- 61.15 Spooled or reeled quantity
- 61.16 Diameter sensing
- 61.17 Spool, reel or idler rotation
- 61.18 Absence or loss of tension (e. g., breakage or misalignment)
- 61.19 Movable or removable interposed nonconductor
- 61.2 Container contents level responsive
- 61.21 Fluent solid bin or hopper
- 61.22 Pneumatic tire inflation responsive
- 61.23 Casing deformation feeler
- 61.24 Ground engaging feeler
- 61.25 Fluid pressure actuated
- 61.26 Biased tube engaging member
- 61.27 Turn indicator type switches
- 61.28 Gear shift lever mounted
- 61.29 Pedal controlled or mounted
- 61.3 Reset by completed turn
- 61.31 Set by turning
- 61.32 With pre-turning setting means
- 61.33 Steering arm, draglink or tie rod actuated
- 61.34 Controller moves reset dog into operative position
- 61.35 By movement of steering wheel or post relative to column
- 61.36 Wheel or wheel attached member engages controller or rigid extension
- 61.37 Through gearing
- 61.38 Wheel carried switch unit
- 61.39 Control by direction of rotation of shaft or spindle
- 61.4 Diameter responsive (e. g., wear)
- 61.41 Stationary feeler detects transient object
- 61.42 Feeler moves into detecting contact with object
- 61.43 Sensitive edge type closure

61.44 Vehicle attached or carried
61.45 Change of inclination or of rate of motion responsive (e. g., inertia and tilt switches)
61.46 Rotary motion
61.47 Conducting fluid type
61.48 Oscillating controller
61.49 Resilient support arm
61.5 Restrained against return to normal
61.51 Conducting
61.52 Tilt responsive
61.53 Linearly moving controller
61.54 Steering wheel, shaft or column mounted
61.55 Wheel hub spring biased type
61.56 With radially extending operator (e. g., horn ring)
61.57 On or in wheel rim
61.58 Actuated concurrently with operation or use of art device
61.59 Article inserted type (e. g., pencil sharpener)
61.6 Coupling of fluid conduit
61.61 Drawer
61.62 Closure, closure operator or accessory
61.63 Letter slot or box
61.64 Lock, bolt or keeper actuated
61.65 Elevator bar lock type
61.66 Improper key or mere presence of key in lock
61.67 By movement of bolt
61.68 In keeper
61.69 Plural closures or plural closure cycles
61.7 Hinge member actuated
61.71 Sliding closure
61.72 Closure-dragged switch actuator
61.73 Abutment type switch actuator
61.74 Spring-biased switch actuator
61.75 With modified closure
61.76 Spring-biased switch actuator
61.77 Pull chain operator
61.78 Spring contact
61.79 Manually disabled
61.8 Manually reset
61.81 Mounted on closure frame or enclosure wall
61.82 In recess
61.83 Gravity actuated
61.84 Window accessory (e. g., shades and blinds)
61.85 Manipulating, operating or carrying handle
61.86 For fluid controlling valve
61.87 Hand brake lever
61.88 Gear shift lever
61.89 Vehicle pedal
61.9 Engine governed over-riding means
61.91 Transmission controlled
61.92 Mounted in or on art device handle
61.93 Anti-intrusion type
86.5 Foot operated (to follow subclass 86).

PRINCIPAL DISPOSITION OF PATENTS IN ABOLISHED SUBCLASSES

Abolished		Disposition	
Class	*Subclass*	*Class*	*Subclass*
200	53	200	61.86, 61.9
	54		61.62, 61.69-61.84
	55		61.64+
	57		61.59, 61.63
	58		61.22+
	59		61.27+, 61.54+
			61.85+, 61.89+

PRINCIPAL SOURCE OF PATENTS IN ESTABLISHED SUBCLASSES

Established		Source	
Class	*Subclass*	*Class*	*Subclass*
200	61.01-61.21	200	52
	61.22-61.26		58
	61.27-61.38		59
	61.39-61.53		52
	61.54-61.57		59
	61.58		Various
	61.59		52, 57
	61.6, 61.61		Various
	61.62		54
	61.63		57
	61.64-61.68		55
	61.69-61.84		54
	61.85		Various
	61.86		53
	61.87-61.92		59
	61.93		52
	86.5		52, 59

M. C. ROSA,
Executive Examiner.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

E. I. du Pont de Nemours and Company has placed 415 additional patents on the Register under Schedules XXVII, XXVIII, XXIX, XXX, XXXI, XXXII, XXXIII, XXXIV, and XXXV, which will be listed in the *Register* section of this and succeeding issues of the OFFICIAL GAZETTE. These patents, which are available for licensing on reasonable terms as indicated at the beginning of each schedule, are in addition to more than 5,800 patents registered previously by the Du Pont Company and listed during 1948–1953 in the *Register* sections of the OFFICIAL GAZETTE. The present listing includes Reg. Nos. 51,599 through 51,689.

Inquiries concerning these patents should be addressed to: Patent Division, E. I. du Pont de Nemours and Company, Wilmington 98, Del.

SCHEDULE XXVII (310 patents)

Unrestricted licenses will be granted under these patents.

Re. 22,705. Purification of Azo Dyestuffs. (Original Pat. 2,374,063, Apr. 17, 1945.) Purification of a trisazo dye represented by the formula, arylamine→aminonaphthol'sulfonic acid←benzidine→coupling component, by acidifying an aqueous suspension with sulfuric, hydrochloric, acetic, or phosphoric acid, heating to 93°–97° C. until supervenient compounds are extracted, and filtering. Group 28—12—89.

Pat. 2,072,618. Production of Amines. Mar. 2, 1937. Preparation of a primary nitroarylamine by reacting ammonia with the halogen of an aryl halide in the presence of a tertiary heterocyclic or aromatic amine or a secondary arylamine which inhibits the attack of iron by the reaction mixture. Group 28—89.

Pat. 2,072,867. Chemical Processes and New Products Produced Thereby. Mar. 9, 1937. 2-alkyl or aryl 1,3-butadienes are obtained by reacting 1-chloro-2,3-butadiene with organometallic compounds such as RMgX. Group 28—89.

Pat. 2,073,363. Butadienyl Compounds and Processes for Preparing Same. Mar. 9, 1937. Preparation of butadienyl compounds by reacting chloro-4-butadiene-1,2 with compounds having a radical which will displace the labile chlorine atom. Group 28—89.

Pat. 2,077,409. Catalytic Hydrogenation of Furfural. Apr. 20, 1937. Catalytic hydrogenation of furfural to furfuryl alcohol, using copper supported on ZnO. Group 28—11—89.

Pat. 2,077,421. Catalytic Hydrogenation Process. Apr. 20, 1937. Liquid phase catalytic hydrogenation using a catalyst comprising an oxide of Fe, Ni, Co, Cu, Ag, Sn, Cd, Pb, or Bi chemically combined with an oxide of Cr, Mo, W, V, or U prepared by partially reducing a composition in which at least one of the metal oxides is in a higher state of oxidation. Group 28—89.

Pat. 2,077,422. Process for Hydrogenating Furfural. Apr. 20 1937. Liquid phase catalytic hydrogenation of furfural to furfuryl alcohol with copper chromite. Group 28—89.

Pat. 2,079,414. Process for Producing Alcohols From Esters of Non-Aromatic Carboxylic Acids. May 4, 1937. Process involving super-atmospheric hydrogenation at above 200° C. in the presence of a hydrogenation catalyst. Group 28—89.

Pat. 2,080,520. Zinc Plating. May 18, 1937. A cyanide-zinc electroplating composition and process for plating a deposit comprised substantially of zinc, the composition containing a metal from group VI sub-group 1 of the Periodic system in the form of a soluble compound. Group 34—72.

Pat. 2,080,558. Dispersions of Halogen-2-Butadiene 1,3 and the Process of Making Same. May 18, 1937. Emulsions of 2-chloro and 2-bromo-1,3-butadiene are prepared in non-aqueous liquids such as glycerol. These dispersions subsequently may be polymerized. Group 28—89.

Pat. 2,080,561. Dispersion. May 18, 1937. Halogen-2-butadiene-1,3 containing 85%–75% monomer and 15%–25% polymer is dispersed in a non-aqueous medium in which the halogen-2-butadiene-1,3 is insoluble and further polymerization is allowed to take place. Group 28—89.

Pat. 2,083,010. Urea Synthesis. June 8, 1937. The step of maintaining the presence of formamide in the synthesis melt. Group 28—89.

Pat. 2,085,747. Addition Agent. July 6, 1937. Cyanide-cadmium plating composition containing acetaldehyde, aldol, crotonaldehyde, paraldel, or the reaction product of such aldehydes with an alkali metal cyanide, and cadmium plating processes using such composition. Group 34—72.

Pat. 2,085,748. Aliphatic Addition Agent. July 6, 1937. Cyanide-cadmium electroplating composition and method employing a reaction product of an alkali metal cyanide with an aliphatic compound, containing a carbonyl group, which has from two to nine carbon atoms not more than two hydroxyl groups, no sulfur, nitrogen, or carboxyl. Group 34—72.

Pat. 2,085,750. Electrodeposition of Cadmium. July 6, 1937. Cyanide-cadmium plating composition employing an amketaldoresin, i. e., a pre-reacted addition agent prepared by reacting a ketaldone with ammonia or an amine. Group 34—72.

Pat. 2,087,282. Oil Soluble Azo Dyes and Processes of Making Them July 20, 1937. Preparation of an intermediate for oil-soluble red dyes by diazotizing portions of a mixture containing aniline, toluidine and xylidine so that the diazotized compounds will couple with the undiazotized compounds to form diazoamino compounds, and converting these to aminoazo compounds. Group 28—12—89.

Pat. 2,087,980. Urea Synthesis at Pressures Above Autogenous. July 27, 1937. The step of operating at 2000–9000 p. s. i. g. in the presence of excess ammonia. Group 28—89.

Pat. 2,089,009. Method for Preparing Halogenated Indanthrone. Aug. 3, 1937. Preparation of dichloroindanthrones from higher chlorinated bodies by reacting such higher chlorinated indanthrone bodies in an alkaline hydrosulfite solution at temperatures not materially above 35° C. in the presence of a vatting assistant, until no further chlorine is removed. Group 28—89.

Pat. 2,089,433. Catalyst and Catalytic Process. Aug. 10, 1937. Process for preparing catalyst by destructively heating a multiple chromate of a nitrogen base and a hydrogenating metal whose oxide is soluble in ammonia, and thereafter extracting with aqueous ammonia. Group 28—89.

Pat. 2,092,723. Preparation of Acid Amides. Sept. 7, 1937. Reaction of ammonia with an alkyl ester of a lower fatty acid in excess at up to 130° C., 50–500 p. s. i. g. Group 28—89.

Pat. 2,092,867. Manufacture of Arylamino-Naphthalene-Sulphonic Acids. Sept. 14, 1937. Preparation of an arylamino-naphthalene sulphonic acid by reacting an arylamine of the benzene series with an alpha naphthylamine sulphonic acid under a pressure of not more than 20 inches of mercury. Group 28—89.

Pat. 2,093,863. Textile Oils. Sept. 21, 1937. A mineral oil for lubricating textile fibers containing enough of a monohydric aliphatic alcohol of at least 12 carbon atoms, e. g. oleyl alcohol, to make the oil more easily removable from the fibers by washing in aqueous solution. Group 28—81.

Pat. 2,098,289. Process for the Catalytic Syathesis of Amines. Nov. 9, 1937. Catalytic synthesis of lower alkyl amines at a pressure greater than 100 p. s. i. followed by direct fractionation of the reaction product at the same pressure to separate the components. Group 28—89.

Pat. 2,105,321. Hydrogenation of Alpha-Nitronaphthalene. Jan. 11, 1938. Production of alpha naphthylamine by liquid phase hydrogenation of alpha nitronaphthalene in the presence of a nickel catalyst. Group 28—89.

Pat. 2,107,652. Process for the Preparation of the Alkali Metal Salts of 2-Benzoylbensoic Acid Compounds. Feb. 8, 1938. Preparation of 2-benzoylbensoic acids which contain salt forming groups in the 4' position in which they are isolated in the form of their dialkali metal salts directly from the solution in which they are formed. Group 28—89.

Pat. 2,109,592. Preparation of Plastics. Mar. 1, 1938. Method of uniformly incorporating filler into plastics by dry-grinding the filler with a portion of the plastic and kneading the blend into the main batch. Group 28—83.

Pat. 2,109,844. Catalytic Hydrogenation of Glycerides of Aliphatic Carboxylic Acids. Mar. 1, 1938. Hydrogenating a glyceride at over 200° C., and upwards of 13.5 atm. in the presence of mild catalysts to form alcohols and waxy esters free of hydrocarbons. Group 28—89.

Pat. 2,110,074. Wetting Agent With Mildew-Proofing Properties. Mar. 1, 1938. A fungicide and wetting agent composition suitable for mildew-proofing organic fibrous materials containing an aqueous solution of an alkyl naphthalene sulfonic acid or its alkali metal salt and ortho-phenyl phenol or its alkali metal phenate. Group 28—33.

Pat. 2,111,226. Composition and Process for Galvanising. Mar. 15, 1938. A prepared foaming flux composition and method employing zinc chloride, ammonium chloride, or zinc-ammonium chloride and a foaming agent containing a cinchona bark alkaloid nucleus. Group 33—75.

Pat. 2,112,970. Synthesis of Amines. Apr. 5, 1938. Conversion of tertiary amines to primary and secondary amines or secondary amines to primary amines by heating with ammonia or a primary amine in the presence of a hydrogenation or dehydration catalyst. Group 28—89.

Pat. 2,116,881. Urea Synthesis. May 10, 1938. In a cyclic process, the steps of recovering recyclable materials from the synthesis melt via a primary pressure distillation and a secondary two-stage distillation at lower pressure. Group 28—83.

Pat. 2,120,660. Manufacture of Di-J Acid. June 14, 1938. Preparation of 5,5'-dihydroxy-2,2'-dinaphthylamine-7,7'-disulfonic acid (Di-J acid) by reacting J-acid with sodium bisulfite in the presence of a water-soluble acid-reacting ammonium salt. Group 28—89.

Pat. 2,121,397. Stabilized Salts of Hydrosulphurous Acid and Preparation Thereof. June 21, 1938. Alkali metal salts of hydrosulphurous acid having a water-insoluble coating of rosin. Group 28—34.

Pat. 2,124,590. Dye Finishing Process. July 26, 1938. Process of finishing a basic dye by dissolving the completely purified dye in hot low-boiling organic solvent and subsequently recovering the dye in desirable physical form by removing the solvent by distillation. Group 28—12—89.

Pat. 2,124,688. Hydroxy Secondary Disazo Dyes and Process for Their Preparation. July 26, 1938. Brown disazo dyes are made by coupling a diazotised nitro-amino-diphenylamine-sulfonic acid with a primary aryl amine of the benzene or naphthalene series, diazotizing the product and coupling with a hydroxy benzene, a beta hydroxy naphthalene or a pyrazolone. Group 28—12—89.

Pat. 2,124,690. Brown Wool Dye. July 26, 1938. Brown disazo dyes are prepared by coupling in para position to the amino group a primary aryl amine with a diazotized 4-nitro-4'-amino-diphenylamine-sulfonic acid, diazotizing the product, coupling with a hydroxy aryl compound and condensing with an agent to block the hydroxyl group. Group 28—12—89.

Pat. 2,125,924. Sulphur Colors by Thionation. Aug. 9, 1938. Preparation of sulphur dyes by thionating sulphur color intermediates in a reaction medium containing an alkali-metal polysulphide solution, water in excess of that contained in the alkali sulphide crystals and a solvent such as diethylene glycol or a mono-alkyl ether of ethylene glycol. Group 28—12—89.

Pat. 2,125,981. Flaked Sulphur Dye. Aug. 9, 1938. A sulphur dye in the form of hard shiny flakes or grains which is free from uncombined sulphur and contains a solubilizing agent such as sodium sulphide. Group 28—12—89.

Pat. 2,128,100. Preparation of 4,4'-Dialkoxy Diphenylamines. Aug. 23, 1938. Preparation of 4,4'-dialkoxy diphenylamines by reacting a lower alkyl ester of an inorganic acid with a p-(4-alkoxy-anilino)-phenolate. Group 28—89.

Pat. 2,129,507. Catalyst and Catalytic Process. Sept. 6, 1938. Preparation of catalyst by destructively heating a multiple chromate of a nitrogen base and a hydrogenating metal whose oxides and hydroxides are soluble in ammonia, and extracting the residue with aqueous ammonia and ammonium salt. Process of hydrogenating carbon compounds therewith. Group 28—89.

Pat. 2,129,689. Urea Manufacture. Sept. 13, 1938. Method of avoiding corrosion in processing equipment by dissolving polyvalent metal in the corrosive liquid reactants or products of urea synthesis. Group 28—89.

Pat. 2,131,734. Hydrogenation of Mono Nitrated Alkyl Benzenes. Oct. 4, 1938. Preparation of mono amino alkyl benzenes by liquid phase hydrogenation of the corresponding nitrated alkyl benzenes in the presence of a nickel catalyst supported on a siliceous material. Group 28—89.

Pat. 2,135,346. Process for the Preparation of Aminoanthraquinone Sulphonic Acids and New Compounds Obtainable Thereby. Nov. 1, 1938. Sulphonation of a 1-aminoanthraquinone using chloro-sulphonic acid in an inert high-boiling organic solvent. Group 28—89.

Pat. 2,136,177. Unsaturated Amines and the Process of Preparing the Same. Nov. 8, 1938. Compounds of the formula, $CH_2{=}C{-}CH{-}CH_2{-}NR_1R_2$, where R_1 is H or an aliphatic radical and R_2 is H or a hydrocarbon radical. Group 28—89.

Pat. 2,136,178. Aliphatic Unsaturated Compounds and the Process of Preparing Them. Nov. 8, 1938. 2,3-butadienyl derivatives are produced by reactions of 4-chloro-1,2-butadiene. 1,2-butadiene-4-ol. 1,2,3-butatriene and 4-mercapto-1,2-butadiene are claimed. Group 28—86.

Pat. 2,137,407. Catalytic Hydrogenation Process. Nov. 22, 1938. Hydrogenating an unsaturated C to O linkage by liquid phase contact with H_2 and a catalyst prepared by heating a multiple chromate of a nitrogen base and Cu to its spontaneous decomposition temperature. Group 28—89.

Pat. 2,139,325. Manufacture of 4-Amino-Azo-Benzene-4'-Sulphonic Acid. Dec. 6, 1938. Preparation of 4-amino-azo-benzene-4'-sulphonic acid by the acid hydrolysis of the alkali salt of omega-sulphonic acid of 4-alkyl-amino-azo-benzene-4'-sulphonic acid. Group 28—89.

Pat. 2,140,455. Preparation of Dyestuffs of the Dibenzanthrone Series. Dec. 13, 1938. Preparation of dibenzanthrones by alkylating a hydroxy-dibenzanthrone in a nitrobensene with dimethyl or diethyl sulfate in the presence of a potassium carbonate. Group 28—12—89.

Pat. 2,143,963. Process for the Sulphonation of Alpha Nitro Naphthalene. Jan. 17, 1939. Preparation of nitro naphthalene sulphonic acids by sulfonating a nitro naphthalene in the presence of a mixture of a strong sulphonating agent and an alkali metal, alkaline earth metal, or ammonium salt of sulphuric acid. Group 28—89.

Pat. 2,146,276. Treatment of Resins. Feb. 7, 1939. Treating an olefin-sulphone resin with small amounts of reactive material, such as methyl methacrylate, to effect stabilization. Group 28—83.

Pat. 2,148,042. Compounds of the Dibenzanthrone Series. Feb. 21, 1939. Preparation of stable reduction derivatives of Bz-2, Bz-2'-dimethoxydibenzanthrone by preparing a caustic alkali hydrosulfite vat, converting the excess alkali to an alkali-metal sulfite so that the pH value is reduced to from 9 to 12, while maintaining the temperature at 60° to 90° C. until complete precipitation of the olive colored reduction derivative which is stable to air oxidation is effected. Group 28—89.

Pat. 2,150,109. Preparation of Vat Dyestuffs. Mar. 7, 1939. In the preparation of water-insoluble indanthrone compounds in a very uniformly fine state of subdivision, the step which comprises precipitating them from a vat at temperature below 35° C. in the presence of a vatting assistant selected from the group consisting of the water-soluble condensation products of epichlorhydrin or dichlorhydrin with ammonia or an aliphatic primary amine. Group 28—89.

Pat. 2,153,312. Process for the Preparation of Isodibenzanthrone. Apr. 4, 1939. Preparation of isodibenzanthrone by caustic fusion of dibenzanthronyl selenide or sulfide in the same alcohol medium in which it has been formed without removal of the impurities which are present. Group 28—86.

Pat. 2,156,792. Preparation of Derivatives of N-Phenyl-Arylamines. May 2, 1939. Preparation of hydroxy and amino substituted derivatives of N-phenyl-arylamines, useful as rubber antioxidants, by condensing a dihydroxy substituted aromatic hydrocarbon of the benzene series with an aromatic amine in the presence of zinc chloride as catalyst. Group 28—89.

Pat. 2,156,793. Preparation of Derivatives of N-Phenyl-Arylamines. May 2, 1939. Preparation of hydroxy and amino substituted derivatives of N-phenyl-arylamines, useful as rubber antioxidants, by condensing a dihydroxy substituted aromatic hydrocarbon of the benzene series with an aromatic amine in the presence of aluminum chloride as catalyst. Group 28—89.

Pat. 2,158,032. Process of Producing Symmetrical Thioindigo Dyes. May 9, 1939. Preparation of thioindigo dyes by converting a phenyl-thioglycollic acid to the acid halide in anhydrous suspension medium, ring closing to the thioindoxyl without isolating, diluting and making the mass slightly alkaline, distilling out the suspension medium, solubilising the thioindoxyl and oxidizing to the dye. Group 28—89.

Pat. 2,161,798. Chemical Process. June 13, 1939. Removal of divinylacetylene from an oily acetone-soluble polymer of divinylacetylene by passing an inert gas through the liquid so that the gas entrains and removes the volatile constituents. Group 28—89.

Pat. 2,164,154. Hydrogenation of Mono Nitrated Alkoxy Benzenes. June 27, 1939. Preparation of mono amino alkoxy bensenes, e. g., ortho anisidine and para phenetidine, by liquid phase hydrogenation of mono nitrated alkoxy bensenes in the presence of a nickel catalyst. Group 28—89.

Pat. 2,165,493. Manufacture of Sulphur Colors. July 11, 1939. Preparation of sulphur dyes by heating an indophenol with an alkali metal polysulfide and a mono- or polyhydroxy alcohol in a container made of an alloy consisting of 18% Cr, 8% Ni, 0.05–0.3% C, not over 1% Mn, and the rest mainly iron. Group 28—89.

Pat. 2,167,070. Process for Preparing Leuco Quinizarine. July 25, 1939. Preparation of leuco quinizarine by suspending quinizarine in an aqueous alkali metal carbonate solution and effecting reduction of the quinizarine with an alkali metal hydrosulfite, sufficient hydrosulfite being employed in the solution to reduce all of the quinizarine to leuco quinizarine. A product of especially high melting point is formed. Group 28—89.

Pat. 2,169,196. Process for the Preparation of Dibromo-aminoanthraquinone Compounds and Products Obtainable Thereby. Aug. 8, 1939. Preparation of 1-amino-2,4-dibromoanthraquinone compounds by reacting upon a 1-amino-2-anthraquinonesulfonic acid with bromine in aqueous solution sufficient bromine being introduced to completely replace the sulfonic acid radical which is present in the 2-position. Group 28—89.

Pat. 2,173,506. Vat Dye Compositions. Sept. 19, 1939. Preparation of a thioindigo of high tinctorial value by oxidizing a thioindoxyl in the presence of an isopropyl naphthalene alkali sulfonate or a butylated naphthalene alkali sulfonate. Group 28—89.

Pat. 2,173,876. Process for the Recovery of Zinc Values From Galvanizer's Skimmings. Sept. 26, 1939. Galvanizer's skimmings are ballmilled with water, treated with lime, filtered; the filter cake is then treated with lime to convert zinc to zinc hydroxide, boiled, and the zinc hydroxide is separated and dissolved in sulfuric acid to produce zinc sulfate. Group 28—12.

Pat. 2,175,339. Preparation of Cyclic Compounds From Vinyl Acetylenes. Oct. 10, 1939. A catalytic vapor phase condensation process which comprises passing a non-benzenoid polymerizable polymer of acetylene and gas selected from the group consisting of ammonia and volatile primary amines over acetylene ammonia condensation catalyst at an elevated temperature. Group 28—86.

Pat. 2,180,835. Bromination of Benzanthrone. Nov. 21, 1939. Manufacture of bromobenzanthrones by reacting benzanthrone in an inert organic solvent, with sufficient bromine to give the desired degree of bromination, the bromination being carried out in the presence of sulfuryl chloride preferably in an amount molecularly equivalent to the bromine employed, and if desired, in the presence of a halogenation catalyst. Group 28—86.

Pat. 2,185,871. Dyestuff Paste of Dyestuffs of the Dibenzanthrone Class and Process for Preparing Them. Jan. 2, 1940. Preparation of microcrystalline dye pastes and powders of the alkylation derivatives of Bz-2, Bz-2'-dihydroxy-dibenzanthrone by converting the normal leuco compound of the color or its alkali metal salt to a stable reduction derivative and reoxidizing this reduction derivative to the parent ketonic dye. Group 28—12—89.

Pat. 2,188,340. Process of Reacting Methyl Vinyl Ketone With Hydrocyanic Acid and Products Obtained Thereby. Jan. 30, 1940. Production of levulononitrile by reacting hydrogen cyanide with methyl vinyl ketone under anhydrous conditions in the liquid state. Group 28—89.

Pat. 2,189,806. Azo Dyes. Feb. 13, 1940. Pigments are produced by coupling beta-hydroxy-naphthoic acid with a mixture of diazotised 2-chlor-4-amino-toluene-5-sulfonic acid and a diazotisable aniline substituted in meta or para position by a SO_2H group. Group 28—12—89.

Pat. 2,194,938. Process for the Manufacture of Benzidine. Mar. 26, 1940. Nitrobenzene is hydrogenated in liquid phase to azobensene, the temperature is lowered and hydrogenation continued to form hydrazobensene which is converted to benzidine hydrochloride by treating with HCl. Group 28—89.

Pat. 2,195,966. Production of Furonitrile. Apr. 2, 1940. Preparation of furonitrile from ammonia and furoic acid or derivatives. Group 28—61—89.

Pat. 2,196,246. Manufacture of Chemically Pure Hydrochloric Acid. Apr. 9, 1940. Aqueous hydrochloric acid is distilled in the presence of an oxidizing agent and the vapors are contacted with activated carbon to remove free chlorine. Group 28—89.

Pat. 2,196,357. Preparation of Carboxylic Acids. Apr. 9, 1940. Preparation of adipic acid by oxidizing cyclohexylamine in the liquid phase with nitric acid. Group 28—86.

Pat. 2,196,588. Electroplating. Apr. 9, 1940. A cyanide-zinc plating composition containing a bath-soluble oxyheterocyclic compound selected from a specified group including piperonal, coumarin, safrole and others; and a protective colloid such as gelatine, gum arabic and others. Group 34—72.

Pat. 2,205,232. Insect Repellent. June 18, 1940. Repellent composition for chewing insects containing a thiuram sulfide and a finely divided inert material. Group 28—33.

Pat. 2,207,901. Process for Removing Dissolved Copper From Chloroprene. July 16, 1940. Purification of chloroprene containing copper by treating with a finely divided metal above copper in the electromotive series. Group 28—89.

Pat. 2,216,840. Preparation of Aryl Mercaptans and Resulting Composition. Oct. 8, 1940. Preparation of thiophenols, e. g., 1-mercapto-2-naphthol, by the zinc dust reduction of aromatic compounds having a sulfur-containing radical capable of being reduced to the mercaptan radical in a mixture of water and an inert, water-immiscible solvent for the thiophenol. Group 28—34.

Pat. 2,216,849. Process for Preparing Aryl Mercaptans. Oct. 8, 1940. Preparation of thionaphthols by adding zinc to a water suspension of a naphthalene-sulfonyl chloride and then adding a non-oxidizing mineral acid. Group 28—86.

Pat. 2,218,734. Electroplating Process. Oct. 22, 1940. Cyanide-zinc plating composition containing an oxyheterocyclic compound characterized by the presence of a methylenedioxyphenyl group such as piperonal, piperonyl alcohol, and safrole; and electrodeposition process employing such compositions. Group 34—72.

Pat. 2,219,379. Catalytic Process and Catalyst Therefor. Oct. 29, 1940. Polymerization of acetylene in the presence of an aqueous solution of cuprous and stannous salts. Group 28—86.

Pat. 2,223,500. Oxidation of Cyclic Olefins. Dec. 3, 1940. Cyclohexenes are oxidised with oxygen at 60–65° C. in the presence of soluble Co, Mn, and Pb salts, e. g. cobalt naphthenate, to cyclohexenones. Group 28—89.

Pat. 2,224,574. Azo Pigment Composition. Dec. 10, 1940. Red azo pigment dyes are prepared by coupling diazotized 3-nitro-4-amino toluene and diazotized 3-nitro-4-amino anisole with beta naphthol. Group 28—12—89.

Pat. 2,229,049. Azo Pigment. Jan. 21, 1941. Azo dyes which may be converted to lakes are prepared by coupling 2-hydroxy-3-naphthoic acid with a mixture of 93–95 parts of diazotized para-toluidine-meta-sulfonic acid and 7–5 parts of diazotised 4-amino-toluene-2-sulfonic acid. Group 28—12—89.

Pat. 2,233,128. Process for the Manufacture of Benzidine. Feb. 25, 1941. Preparation of benzidine by the catalytic hydrogenation of nitrobenzene in an alkaline medium and in an oxygen-containing organic solvent having 3–7 carbon atoms while in contact with a noble metal catalyst. Group 28—89.

Pat. 2,233,129. Process for the Manufacture of Tolidine. Feb. 25, 1941. Preparation of tolidine by the catalytic hydrogenation of o-nitrotoluene in an alkaline medium and in an oxygen-containing organic solvent having 1–7 carbon atoms while in contact with a noble metal catalyst. Group 28—89.

Pat. 2,233,130. Process for the Manufacture of Dianisidine. Feb. 25, 1941. Preparation of dianisidine by the catalytic hydrogenation of o-nitroanisole in an alkaline medium and in an oxygen-containing organic solvent having 1–7 carbon atoms while in contact with a noble metal catalyst. Group 28—89.

Pat. 2,233,500. Electroplating Zinc. Mar. 4, 1941. Cyanide-zinc plating composition containing an oxyheterocyclic compound, and electro-deposition process employing such composition. Group 34—72.

Pat. 2,236,963. Chemical Process. Apr. 1, 1941. Process for recovering acetylene from multi-component mixtures involving pressure distillation, partial condensation and rectification of the condensate. Group 28—86.

Pat. 2,236,964. Separation of Acetylene From Mixtures. Apr. 1, 1941. Process for recovering acetylene involving solvent scrubbing and rectification. Group 28—86.

Pat. 2,236,965. Chemical Process and Apparatus. Apr. 1, 1941. Process for recovering acetylene involving contacting an acetylene fraction with liquid ethylene and distilling off the ethylene. Group 28—86.

Pat. 2,236,966. Separation of Acetylene From Gas Mixtures. Apr. 1, 1941. Process involving distillation, selectively scrubbing the distillate with acetone, and distilling acetylene from the acetone. Group 28—86.

Pat. 2,238,447. Preparation of Polyvinyl Ketals. Apr. 15, 1941. Heating preformed polyvinyl alcohol, methanol, 3,5-dimethyl cyclohexanone, and a condensation catalyst to form polyvinyl ketal. Group 28—89.

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 22, 1953

[VOL. 674. NO. 4]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 625,204. International Minerals & Chemical Corporation, Chicago, Ill. Filed Feb. 19, 1952.

Revivo Bond

No claim is made to the exclusive use of the word "Bond" apart from the mark shown in the drawing.

For Blend of Clays To Mix With Molding Sand for the Purpose of Renewing Its Usefulness.

Claims use since Oct. 15, 1924.

Ser. No. 630,496. Julius Brand Leather Co., Inc., Newark, N. J. Filed May 29, 1952.

Dude Saddle Leather

The words "Saddle Leather" are disclaimed apart from the mark as shown in the drawing.

For Real Leather for Handbags.

Claims use since Mar. 24, 1952.

Ser. No. 635,707. Montgomery Bros., Inc., Philadelphia, Pa. Filed Sept. 24, 1952.

M.B.

Applicant claims ownership of Registration No. 147,798.

For Rubber Latex Compounds for Use as Cotton and Wool Rug Backing and Sizing Materials, Rubber Backing Material for Upholstery Fabric and Drapery Fabric, and Curing Dispersions for the Manufacture of Foam Rubber, and Textile Backings.

Claims use since in 1892.

Ser. No. 636,756. C. K. Williams & Co., Easton, Pa. Filed Oct. 16, 1952.

VI-CAL

For Ground Limestone for Use in the Manufacture of Fertilizer and Poultry Feeds; as a Filler in Composition Floorings and in Asphalt Base Compositions, Such as Pipe Coatings; for Use in Well Drilling and Acid Neutralization, and for Other Miscellaneous Industrial Uses.

Claims use since Oct. 24, 1951.

Ser. No. 640,605. Harry T. Campbell Sons' Corp., Towson, Md. Filed Jan. 12, 1953.

BARN SNOW

The word "Barn" is disclaimed apart from the mark as shown.

For Calcite Preparation Consisting of Dry Ground Limestone Used in Dairy Barns as a Bedding for Cows and To Prevent Cows From Slipping.

Claims use since Nov. 1, 1950.

Ser. No. 641,489. American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Filed Jan. 29, 1953.

PLUMBITE

For Oakum.

Claims use since Jan. 19, 1949.

Ser. No. 641,974. John Sarant, doing business under the name of Shell Sponge Co., Brooklyn, N. Y. Filed Feb. 9, 1953.



Applicant disclaims the word "Sponge."

For Natural Sponges and Cellulose Sponges.

Claims use since Aug. 26, 1951.

Ser. No. 642,023. Eagle-Flagg Tanning Corporation, New York, N. Y. Filed Feb. 10, 1953.



Applicant disclaims from the trade-mark, as shown, the words "Flagg" and "Steerskin." Applicant claims ownership of Registration No. 559,858.

For Leather in the Piece for Shoe Uppers.

Claims use since Dec. 9, 1952.

Ser. 642,076. The Hill & Griffith Company, Cincinnati, Ohio. Filed Feb. 11, 1953.

STABILITE

For Pulverized Furfural Residue Used in the Manufacture of Steel Castings.
Claims use since Oct. 1, 1948.

Ser. No. 642,796. William Amer Company, Philadelphia, Pa. Filed Feb. 26, 1953.

RAJETTE

For Leather.
Claims use since Sept. 17, 1952.

Ser. No. 643,473. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed Mar. 11, 1953. (Sec. 2f.)

DU PONT

Applicant claims ownership of Registrations Nos. 371,580 and 378,328.
For Polyester Film.
Claims use since June 16, 1952.

Ser. No. 643,474. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed Mar. 11, 1953. (Sec. 2f.)

DU PONT

Applicant claims ownership of Registrations Nos. 371,580 and 378,328.
For Polyethylene Film.
Claims use since June 1, 1949.

Ser. No. 643,490. Holt Hardwood Company, Oconto, Wis. Filed Mar. 11, 1953.

MAPLEX

For Wood Flour.
Claims use since Nov. 11, 1952.

Ser. No. 643,762. Hebb Leather Co., Inc., Boston, Mass. Filed Mar. 17, 1953.

"NOMAD"

For Leather.
Claims use since Feb. 25, 1953.

CLASS 2

RECEPTACLES

Ser. No. 599,360. Bemis Bro. Bag Company, St. Louis, Mo. Filed June 19, 1950.

FLEXIPLY

Applicant claims ownership of Registrations Nos. 113,673, 212,538, 245,747, and others.
For Bags Made of Laminated Paper, Textile and Paper, or Paper.
Claims use since May 8, 1950.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 630,076. S. C. Johnson & Son, Inc., doing business as Gramercy Cane Wax Plant, Racine, Wis. Filed May 22, 1952.

CAJON SUGAR CANE WAX

The words "Sugar Cane Wax" are disclaimed apart from the mark as shown in the drawing.
For Sugar Cane Wax for Industrial Purposes.
Claims use since Feb. 28, 1952.

Ser. No. 630,077. S. C. Johnson & Son, Inc., doing business as Gramercy Cane Wax Plant, Racine, Wis. Filed May 22, 1952.

Cajon SUGAR CANE WAX

The words "Sugar Cane Wax" are disclaimed apart from the mark as shown in the drawing.
For Sugar Cane Wax for Industrial Purposes.
Claims use since Feb. 28, 1952.

Ser. No. 630,078. S. C. Johnson & Son, Inc., doing business as Gramercy Cane Wax Plant, Racine, Wis. Filed May 22, 1952.

DUPLICANE WAX

The word "Wax" is disclaimed apart from the mark as shown in the drawing.
For Sugar Cane Wax for Industrial Purposes.
Claims use since Feb. 28, 1952.

Ser. No. 630,079. S. C. Johnson & Son, Inc., doing business as Gramercy Cane Wax Plant, Racine, Wis. Filed May 22, 1952.

DUPLICANE WAX FOR CLEAR CARBONS

The words "Wax" and "For Clear Carbons" and the representation of the carbon paper are disclaimed apart from the mark as shown.
For Sugar Cane Wax for Industrial Purposes.
Claims use since Feb. 28, 1952.

Ser. No. 630,080. S. C. Johnson & Son, Inc., doing business as Gramercy Cane Wax Plant, Racine, Wis. Filed May 22, 1952.

Gramercy SUGAR CANE WAX

The words "Sugar Cane Wax" are disclaimed apart from the mark as shown in the drawing.
For Sugar Cane Wax for Industrial Purposes.
Claims use since Feb. 28, 1952.

Ser. No. 630,081. S. C. Johnson & Son, Inc., doing business as Gramercy Cane Wax Plant, Racine, Wis. Filed May 22, 1952.

GRAMERCY SUGAR CANE WAX

The words "Sugar Cane Wax" are disclaimed apart from the mark as shown in the drawing.
For Sugar Cane Wax for Industrial Purposes.
Claims use since Feb. 28, 1952.

Ser. No. 630,082. S. C. Johnson & Son, Inc., doing business as Gramercy Cane Wax Plant, Racine, Wis. Filed May 22, 1952.

TECHNICANE WAX

The word "Wax" is disclaimed apart from the mark as shown in the drawing.
For Sugar Cane Wax for Industrial Purposes.
Claims use since Feb. 28, 1952.

Ser. No. 630,083. S. C. Johnson & Son, Inc., doing business as Gramercy Cane Wax Plant, Racine, Wis. Filed May 22, 1952.

TECHNICANE WAX

The word "Wax" is disclaimed apart from the mark as shown in the drawing.
For Sugar Cane Wax for Industrial Purposes.
Claims use since Feb. 28, 1952.

Ser. No. 638,493. National Chemical Sales Co., Inc., Atlanta, Ga. Filed Nov. 22, 1952.

National

The representation of the map of the United States is disclaimed apart from the mark as shown.
For Boiler Water Treatment Compound for Preventing Scale, Rust, Pitting, and Foaming.
Claims use since on or about July 1, 1944.

Ser. No. 640,302. Perrysburg Laboratories, Inc., Perrysburg, Ohio. Filed Jan. 2, 1953.

GLASKYD

For Resinous Molding Compositions.
Claims use since Nov. 17, 1952.

Ser. No. 642,046. Poor & Company, Chicago, Ill. Filed Feb. 10, 1953.

Promat Proton

No claim is made to "Proton" apart from the mark shown in the drawing. Applicant claims ownership of Registration No. 377, 464.
For Corrosion Inhibitor of the Vapor Pressure or Cationic Types for Protecting Ferrous Metal Surfaces.
Claims use since Jan. 9, 1953.

CLASS 10

FERTILIZERS

Ser. No. 638,831. California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif. Filed Dec. 2, 1952.

ORTHO

Applicant claims ownership of Registrations Nos. 431,438, 435,040, 436,240, 503,454, and 533,271.

For Compounds Used as Soil Amendments and Soil Correctives.

Claims use since Sept. 1, 1952.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 592,717. Midwest Plywood Company, Detroit, Mich. Filed Feb. 18, 1950.

Texwood

For Textured Plywood.

Claims use since Jan. 3, 1950.

Ser. No. 603,747. Refractory Insulation Corporation, New York, N. Y. Filed Sept. 19, 1950.

R&I

The mark is a symbol including the letters "R & I" enclosed in a circle.

For Cast and Castable Refractories; Bonding and Patching Mortars, Both Air Setting and Heat Setting Refractory Cement and Furnace Cement; Rockwool Insulations—Namely, Rockwool Base, Insulating Cements, Insulating Blankets, Insulating Blocks, Rockwool Insulations Granulated and Loose, Plastic Insulating Materials Applied Over Insulations To Protect Them From the Weather and General Use as an Insulating Material; Moldable Sealing and Insulating Compounds for Refractory Structures; Plastic Fire Brick and Cast Construction Blocks.

Claims use since Mar. 27, 1936.

Ser. No. 626,721. Ainsworth Manufacturing Corporation, Detroit, Mich. Filed Mar. 20, 1952.

MULT-A-FRAME

The representation of the goods and the term "Frame" are disclaimed apart from the mark as shown.

For Structural Materials Comprising Embossed Channel Steel Frame Members and Adjustable Interlocking Fittings Therefor Sold as Complete Units and Being Especially Suitable for the Construction of Storage Shelves, Hangers, Frames, Supports, Racks, and the Like.

Claims use since Nov. 1, 1951.

Ser. No. 637,091. Tennison Brothers, Incorporated, Memphis, Tenn., and Texarkana, Ark. Filed Oct. 23, 1952.



For Half Round Roofing Gutter, O. G. Roofing Gutter (the Lettering "O. G." Being the Trade Name for a Particular Style of Gutter), Square Box Roofing Gutter, Die Formed Roofing Gutter, High Back Roofing Gutter; Roofing Gutter Accessories—Namely, Outer Mitres, Inner Mitres, End Pieces With Outlet, Outlet Drops, End Caps, Gutter Couplings, Gutter Heads, Gutter Downspouts, Downspout Elbows, Fittings and Funnels; Roofing Gutter Mitres With Splash Shields, Roof Binder, Roof Gravel Guard, Window Flashing, Ridge Roll, V-Crimp Ridge Roll, Ridging, Roof Trim, Galvanized Roofing, Preformed Roofing Valley, Flashing for Roofing, Preformed Flashing for Roofing, Siding Trim, Corner Finish Strips, Metal Cornice, Corner Beads, Wall Ties, Metal Building Corners, Anchoring Strips for Anchoring Window Frames, and Wood and Tile Partitions to Masonry Walls; Gable Vents; Termite Shields; Termite Shield Accessories—Namely, Pier and Pilaster Shields, Inner and Outer Mitres, T Joints, Pipe Shields, Corners, and Couplings; Metal Ceilings, Metal Ceiling Cornices, Siding, Rock Face Stone Siding, Weatherboard Siding, Metal Shingles, Metal Shingle Roof Trim, Crimp Roofing, Crimp Roofing Trimmings, Double Drain Roofing, Double Drain Roofing Trimmings, Corrugated Roofing and Siding, Corrugated Roofing Trim, and Roll Standing Seam Roofing.

Claims use since Nov. 21, 1950.

Ser. No. 637,447. Kanium Corporation, Chicago, Ill. Filed Oct. 31, 1952.

KANAMITE

For Expanded and Spherulized Clay Products Used as Aggregates in Cementitious Building Material.

Claims use since Aug. 16, 1952.

Ser. No. 643,743. T. V. Walker & Son, Inc., Burbank, Calif. Filed Mar. 16, 1953.

the Westerner

For Sliding Glass Doors.

Claims use since Nov. 1, 1952.

Ser. No. 643,986. Oscar J. Terriere, Rapid City, S. Dak. Filed Mar. 20, 1953.

TERRICOTE

For Tile, and Particularly Ornamental Tile.

Claims use since Jan. 23, 1953.

Ser. No. 643,995. A. M. S. Corporation, South Norwalk, Conn. Filed Mar. 23, 1953.

AMS

For Window Sash Which Is Slidably and Pivotally Mounted, and the Sash Mounting.

Claims use since Mar. 13, 1953.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 597,092. Northwestern Steel and Wire Company, Sterling, Ill. Filed May 16, 1950. (Sec. 2f as to "Sterling.")

Sterling Welded FABRI-CLOTH

The lining shown on the drawing is for shading purposes only. No registration rights are claimed for the words "Welded Fabri-Cloth" apart from the mark as shown in the drawing.

For Wire Cloth.

Claims use since Mar. 22, 1950.

Ser. No. 613,693. N. V. Kamper Emaillefabriken v/h H. Berk & Zoon, Kampen, Netherlands. Filed May 8, 1951.



Applicant disclaims exclusive right to the use of the words "Made in Holland," the word "Ware," and the representation of a kettle. Applicant claims ownership of Dutch Registration No. 106,848, dated Nov. 17, 1950.

For Enamelled, Tinned, and Aluminium Household Articles—Namely, Kettles, Pans, Pots, Milk Boilers, Milk Jugs, Coffee Pots, Teapots, Casseroles, Cullenders, Sink Baskets, Funnels, Bowls, Wash Basins, Bellied Ewers, Soap Dishes, Mugs, Dinner Plates, Soup Plates, Rice Dishes.

Ser. No. 633,265. N. V. Gerofabriek, Zeist, Netherlands. Filed July 30, 1952.

Gero

Applicant claims ownership of Dutch Registration No. 109,372, dated June 16, 1951.

For Base Metal Ware—Namely, Asparagus Racks, Bain-Maries, Basins, Beakers, Pots and Pans for All Types of Cooking, Dishes, Bowls, Trays, Plates, Chamber Pots, Cocktail Shakers, Percolators, Colanders, Metal Condiment Sets, Dish Covers, Jugs, Metal Cruet Sets and Stands, Cups and Saucers, Dish Pans, Dolly Rings, Egg Cups, Finger Bowls, Racks for Pots and Pans, Flower Pots, Funnels, Gravy Boats, Griddles, Hot Water Dishes, Jam-Jars, Molds, Cutlery Rests, Menu Holders, Napkin Stands, Mugs, Offertory Sets, Pepper Boxes, Pitchers, Platters, Sacramental-Wine Jugs, Salt and Pepper Shakers, Tureens, Sinks, Sink Strainers, Soap Dishes, Spittoons, Spoon Cups, Strainers, Tea Pots, Toast Racks, Vases, Wash Basins, Tea Strainer Stands, Chains, and Table Bells.

Ser. No. 638,406. Dresser Stacey Company, Columbus, Ohio. Filed Nov. 21, 1952.



LIGHTWEIGHT HUSKY

No claim is made to the word "Lightweight" apart from the mark as shown.

For Metallic Cable Racks for the Support of Conductor Cables.

Claims use since July 1950.

Ser. No. 638,407. Dresser Stacey Company, Columbus, Ohio. Filed Nov. 21, 1952.



STEEL HUSKY

No claim is made to the word "Steel" apart from the mark as shown.

For Metallic Cable Racks for the Support of Conductor Cables.

Claims use since July 1950.

Ser. No. 638,701. Draper & Emerick, Pittsburgh, Pa. Filed Nov. 28, 1952.

"Pick-a-Pack"

No exclusive claim is made to the word "Pack" apart from the mark as shown on the drawing.

For Nuts and Bolts, Wood Screws, Nails, Cotter Pins, Lock Washers, and Flat Washers.

Claims use since Sept. 12, 1951.

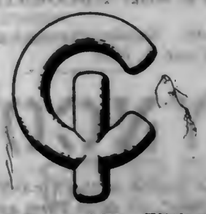
Ser. No. 641,525. The Stavert Company, Inc., Cambridge, Mass. Filed Jan. 29, 1953.

Rite-hite

For Picture Hangers.

Claims use since Oct. 1, 1952.

Ser. No. 644,732. The Cast Iron Soil Pipe Institute, Washington, D. C. Filed Apr. 6, 1953. COLLECTIVE MARK.



For Cast Iron Soil Pipe and Pipe Fittings.

Claims use since Jan. 29, 1951.

Ser. No. 644,749. Fiat Metal Manufacturing Company, Franklin Park, Ill. Filed Apr. 6, 1953.

MARINER

For Shower Cabinets.
Claims use since July 7, 1949.

Ser. No. 644,783. Platt Products Corporation, Lansing, Mich. Filed Apr. 6, 1953.

Ocean

For Constant Level Oil Control Valve for Oil-Fired Heater.
Claims use since Mar. 16, 1953.

Ser. No. 645,004. Pasiode Company, Chicago, Ill. Filed Apr. 9, 1953.

HIZINCOTE

For Staples.
Claims use since Nov. 23, 1952.

Ser. No. 645,146. The Harvard Manufacturing Company, Cleveland, Ohio. Filed Apr. 13, 1953.

MODI-PLATES

For Brackets for Use in Securing Bed Headboards to Bedframes.
Claims use since on or about Apr. 4, 1949.

CLASS 15

OILS AND GREASES

Ser. No. 639,197. R. Edward Smith, doing business as Cal Tek Industries, Los Angeles, Calif. Filed Dec. 8, 1952.

CAL-CUTTA

For Chemical Transparent Coolant and Lubricant.
Claims use since Sept. 9, 1951.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 627,846. Snyder Chemical Corporation, Bethel, Conn. Filed Apr. 9, 1952.

SYNCOAT

For Synthetic Resins of the Air-Dry and Heat-Reactive Type Sold in Liquid and Solid Form and Especially Adapted for Use as Coatings.
Claims use since Nov. 23, 1946.

Ser. No. 629,353. Ceramatex Manufacturing Corporation, Birmingham, Ala. Filed May 8, 1952.

CERAMATEX

For Paint for Waterproofing Concrete Products Such as Shingles Made of Asbestos-Concrete.
Claims use since Mar. 5, 1952.

Ser. No. 644,182. Michael-Lawrence Company, Inc., Inglewood, Calif. Filed Mar. 25, 1953.

Sincere

For Paints.
Claims use since February 1940.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 621,518. Instituto de Biologia y Sueroterapia, Madrid, Spain. Filed Nov. 21, 1951.

BETAFONS

Applicant claims ownership of Spanish Registration No. 140,247, dated Feb. 1, 1945.
For Pharmaceutical Preparation Consisting of a Vitamin B Complex, Extracted From Brewers Yeast, Enriched With Vitamin B_1.

Ser. No. 633,616. Junex Products, Chicago, Ill. Filed Aug. 8, 1952.

minex

Applicant claims ownership of Registration No. 515,913.
For Antibiotic Dietary Supplement for Chicks and Poults.
Claims use since June 20, 1952.

Ser. No. 634,064. The Wander Company, doing business under the name "Smith-Dorsey," Chicago, Ill. Filed Aug. 16, 1952.

DIGLYCINATE

For Antacid Preparation.
Claims use since July 29, 1952.

Ser. No. 634,410. Maude Hirschman, San Pedro, Calif. Filed Aug. 25, 1952.
Applicant claims ownership of Registration No. 294,042.

DOBINAL

For Medicated Preparation for the Relief of Itching and Discomfort of Athlete's Foot and To Reduce Excessive Perspiration and Foot Odors.
Claims use since in February 1938.

Ser. No. 634,927. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia. Filed Sept. 5, 1952.

BASITON

For Vitaminic and Antianemic Preparation.
Claims use since June 24, 1952.

Ser. No. 637,038. Crookes Laboratories, Inc., Mineola, N. Y. Filed Oct. 23, 1952.

SECONESIN

For Relaxant-Sedative Preparation in the Form of Tablets.
Claims use since Aug. 26, 1952.

Ser. No. 637,171. Louis D. Bracken, doing business as L. D. Bracken, Seattle, Wash. Filed Oct. 25, 1952. (Sec. 2f.)

Bracken's

For Lotion for the Treatment of the Human Scalp.
Claims use since August 1939.

Ser. No. 639,340. Earl Richmond, Toledo, Ohio. Original filed, act of 1946, Supplemental Register, Dec. 11, 1952; amended to application, Principal Register, May 21, 1953.

EARL RICHMOND

For Salve for Relief of Piles, Liniment for Treatment of Sores, Preparation for Relief of Soreness of Muscles and Joints, and a Tonic for Stomach Disorders.
Claims use since Aug. 8, 1951.

Ser. No. 640,369. Zerbst Pharmacal Company, St. Joseph, Mo. Filed Jan. 5, 1953.

Zerb-O-Lets

For Vitamin Preparation.
Claims use since on or about Aug. 8, 1951.

Ser. No. 643,669. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Filed Mar. 16, 1953.

KODAK

Applicant claims ownership of Registrations Nos. 85,423, 309,281, and others.
For Vitamin Compounds and Vitamin Preparations.
Claims use since May 2, 1941.

Ser. No. 643,846. Mathieson Chemical Corporation, New York, N. Y. Filed Mar. 18, 1953.

ENZODASE

For Preparation for Increasing Diffusion and Adsorption of Parenteral Solutions.
Claims use since Mar. 10, 1953.

Ser. No. 644,000. American Cyanamid Company, New York, N. Y. Filed Mar. 23, 1953.

CELVICAPS

For Vitamin-Mineral Preparation.
Claims use since Feb. 9, 1953.

Ser. No. 644,001. American Cyanamid Company, New York, N. Y. Filed Mar. 23, 1953.

REVICAPS

For Vitamin-Mineral Preparation.
Claims use since Feb. 9, 1953.

Ser. No. 644,069. Schenley Laboratories, Inc., New York, N. Y. Filed Mar. 23, 1953.

METACORTIN

For Cortisone Acetate Compound for General Hormone Therapy.
Claims use since Feb. 24, 1953.

Ser. No. 644,070. Schenley Laboratories, Inc., New York, N. Y. Filed Mar. 23, 1953.

SEBROMAL

For Combination of a Sedative and Ephedrine.
Claims use since Feb. 24, 1953.

Ser. No. 644,071. Schenley Laboratories, Inc., New York, N. Y. Filed Mar. 23, 1953.

SOMBULEX

For Somnifacient Product.
Claims use since Feb. 24, 1953.

Ser. No. 644,129. Merck & Co., Inc., Rahway, N. J. Filed Mar. 24, 1953.

BI-STREP

For Antibiotics and Antibiotic Preparations.
Claims use since Feb. 20, 1953.

Ser. No. 644,189. Peyton Pharmacal Corporation, New York, N. Y. Filed Mar. 25, 1953.

Pur-a-dyne

For Lyophilised Iodine in an Inert Base for Medicinal Purposes.
Claims use since Mar. 5, 1953.

CLASS 19
VEHICLES

Ser. No. 614,644. American Automatic Devices Co., Chicago, Ill. Filed June 2, 1951.

KING BEE

Applicant claims ownership of Registration No. 207,827.
For Automotive Accessories—Namely, Automotive Rear View Mirrors, Gas Tank Caps, and Pedal Pads.
Claims use since May 1, 1921.

Ser. No. 620,843. Fairchild Engine and Airplane Corporation, Farmingdale, N. Y. Filed Nov. 3, 1951.



The drawing is lined for the color green. Applicant claims ownership of Registrations Nos. 265,501 and 265,670.
For Propellers—Namely, Airscrews, Marine Propellers, and Parts Thereof.
Claims use since on or about Mar. 3, 1928.

Ser. No. 625,549. Supplee-Biddle-Stelts Company, Philadelphia, Pa. Filed Feb. 26, 1952.

Billy and Ruth

For Bicycles.
Claims use since Dec. 3, 1951.

Ser. No. 634,397. Cecil E. Cartwright, doing business under the name of Ace Iron Works, Corpus Christi, Tex. Filed Aug. 25, 1952.

ACE

For Trailers for Hauling Boats, Trailers for Hauling General Merchandise, and House Trailer Frames.
Claims use since August 1947.

Ser. No. 634,748. McDerby-Conatser Boat Manufacturers, Denison, Tex. Filed Sept. 2, 1952.

Yellow Jacket

For Outboard Motor Boats.
Claims use since on or about Jan. 1, 1949.

Ser. No. 648,344. The Aerotherm Corporation, Bantam, Conn. Filed June 8, 1953.

AEROTHERM

For Aircraft Seats.
Claims use since April 1951.

CLASS 21
ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 600,904. The Sperry Corporation, New York and Great Neck, N. Y. Filed July 20, 1950.

TRANSVAR

For Microwave Plumbing—Namely, Transmission Line Couplers, Transmission Line Directional Couplers, Transmission Line Rotary Joints, Transmission Line Power Dividers, Electrical Phase Shifters, and Electrical Switches.
Claims use since May 17, 1950.

Ser. No. 601,221. The Lincoln Electric Company, Cleveland, Ohio. Filed July 25, 1950. (Sec. 2f as to "Lincoln.")

LINCOLN CURRENTROL

Applicant claims ownership of Registrations Nos. 240,429, 509,777, and 555,272.
For Push Button Switches in Electric Arc Welding.
Claims use since June 5, 1950, in the form shown; and since 1894 in a similar form.

Ser. No. 624,254. Video-Matic Co., Inc., New York, N. Y. Filed Jan. 29, 1952.

VIDEOMATIC

For Electrically Lighted and Operated Advertising Display of the Optical Illusion Type.
Claims use since Jan. 5, 1950.

Ser. No. 628,279. Johns-Manville Corporation, New York, N. Y. Filed Apr. 18, 1952.

QUINORGOBORD

Applicant claims ownership of Registrations Nos. 405,678 and 522,312.
For Asbestos Sheets for Electrical Insulation.
Claims use since Mar. 7, 1952.

Ser. No. 629,800. Johns-Manville Corporation, New York, N. Y. Filed May 16, 1952.

QUINTERRABORD

Applicant claims ownership of Registrations Nos. 405,678 and 522,312.
For Asbestos Sheets for Electrical Insulation.
Claims use since Apr. 25, 1952.

Ser. No. 631,080. Arrow Safety Device Company, Mount Holly, N. J. Filed June 12, 1952.

"MAGNALITES"

For Electrical Directional Signals for Automotive Use.
Claims use since May 3, 1952.

Ser. No. 631,665. Hobbs Battery Company, Oakland, Calif. Filed June 24, 1952.

Husky

For Storage Batteries.
Claims use since 1929.

Ser. No. 642,922. Ateliers de Constructions Electriques de Charleroi (Societe Anonyme), Brussels and Charleroi, Belgium. Filed Feb. 20, 1953.

dicturel

Applicant claims ownership of Belgian Registration No. 3299, dated Jan. 30, 1950.
For Electrically Operated Magnetic Recording and Reproducing Dictating Machines and Component Parts Thereof; Magnetic Recording Wires, Tapes, Sheets, and Papers and Magazine Spools or Envelopes Therefor.

Ser. No. 644,898. Myron A. Coler, doing business as The Markite Company, New York, N. Y. Filed Apr. 8, 1953.

MARKLAD

For Insulators Made of Ceramics, Glass, and Plastics and Having Thereon a Thin Coating of an Electrically Conductive Material Such as a Conductive Plastic, Metal, Graphite and the Like, Which May or May Not Be Transparent.
Claims use since during July 1949.

Ser. No. 645,993. Lampes et Entreprises Electriques, Ninove, Belgium. Filed Apr. 27, 1953.

ZAMPA

Applicant claims ownership of Belgian Registration No. 1,474, dated May 25, 1929.
For Electric Lamps.

Ser. No. 646,216. Industrial Electronics Corporation, Newark, N. J. Filed Apr. 30, 1953.

Gold Seal

For Fluorescent Lamps, Incandescent Lamps, Fluorescent Starters, and Fluorescent Ballasts.
Claims use since Apr. 9, 1953.

Ser. No. 646,265. Camfield Manufacturing Company, Grand Haven, Mich. Filed May 1, 1953.

SLEEPMASTER

For Electric Blankets, Electric Sheets, and Electric Quilts.
Claims use since Feb. 24, 1953.

Ser. No. 646,312. The Radion Corporation, Chicago, Ill. Filed May 1, 1953.

"THE BULLSEYE"

For Television Antenna.
Claims use since Mar. 27, 1953.

Ser. No. 646,578. Speer Carbon Company, St. Marys, Pa. Filed May 6, 1953.

OPENDUCTOR

For Ceramic Capacitors.
Claims use since Apr. 16, 1953.

Ser. No. 646,579. Speer Carbon Company, St. Marys, Pa. Filed May 6, 1953.

OPENACTOR

For Ceramic Capacitors.
Claims use since Apr. 16, 1953.

Ser. No. 646,612. Greater Pittsburgh T.-V. Company, Inc., Pittsburgh, Pa. Filed May 7, 1953.

THETA

For Rebuilt Television Picture Tubes.
Claims use since June 1, 1952.

CLASS 22
GAMES, TOYS, AND SPORTING GOODS

Ser. No. 620,331. Erwin Weiler Company, Sioux City, Iowa. Filed Oct. 22, 1951.

Bass Hawk

Applicant disclaims the word "Bass" apart from the mark as shown.
For Fishing Tackle—Namely, Spoons.
Claims use since Aug. 1, 1950.

Ser. No. 644,528. W. H. Storey & Co. Ltd., Croydon, Surrey, England. Filed Mar. 31, 1953.

STARTURN

Applicant claims ownership of British Registration No. 705,620, dated Mar. 11, 1952.
For Playing Cards.

Ser. No. 646,572. Thomas B. R. Peters, Kansas City, Kans. Filed May 6, 1953.

"DUKE"

For Card Game.
Claims use since Apr. 23, 1953.

Ser. No. 649,800. Marshall-Wells Company, Duluth, Minn. Filed July 3, 1953. (Sec. 2f.)

Ol' Reliable

Applicant claims ownership of Registrations Nos. 312,439 and 388,815.
For Base Balls, Basket Balls, Foot Balls, Soft Balls, Baseball Gloves and Mitts, Boxing Gloves, Striking Bags, and Minnow Buckets.
Claims use since Nov. 29, 1933.

Ser. No. 649,860. Airex Corporation, New York, N. Y. Filed July 6, 1953.

AIREX

For Fishing and Spinning Reels, Fishing and Spinning Rods, Fishing Plugs, Spinners, Lures, and Artificial Bait for Fish.
Claims use since Mar. 5, 1947.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF

Ser. No. 591,790. Metropolitan-Vickers Electrical Company Limited, London, England. Filed Feb. 1, 1950.



Applicant claims ownership of British Registrations Nos. 435,645, 435,646, and 435,651, dated Mar. 27, 1923; and United States Registrations Nos. 147,384, 152,459, and 156,706.
For Steam Turbines and Parts Thereof; Internal Combustion Turbines and Parts Thereof; Compressors; Impellers; Rotary Pumps for Pumping Water and Other Liquids; Condensation-Type Vacuum Pumps and Rotary Vacuum Pumps for Industrial and Research Processes; Fuel Ejectors and Injectors; Machine Elements—Namely, Gears and Pinions; Winding Machines, and Dynamic and Mechanical Automatic Braking Apparatus Designed for Use With Industrial Machinery, Brake Governing Apparatus Designed for Use With Industrial Machinery, Haulage and Conveyor Motors and Control Gear, and Overwind, Speed Control and Other Protective and Control Mechanisms for Mine Hoists or Winding Engines; Mechanical Gearing for Use in Connection With Power Plants and Dynamo Electric Machines; and Vacuum Distillation Apparatus.

Ser. No. 591,792. Metropolitan-Vickers Electrical Company Limited, London, England. Filed Feb. 1, 1950.

METROVICK

Applicant claims ownership of British Registrations Nos. 396,424 and 396,425, dated Oct. 23, 1919, and 401,998, dated Mar. 17, 1920.
For Steam Turbines and Parts Thereof; Internal Combustion Turbines and Parts Thereof; Compressors; Impellers; Rotary Pumps for Pumping Water and Other Liquids; Condensation-Type Vacuum Pumps and Rotary Vacuum Pumps for Industrial and Research Processes; Fuel Ejectors and Injectors; Machine Elements—Namely, Gears and Pinions; Winding Machines, and Dynamic and Mechanical Automatic Braking Apparatus Designed for Use With Industrial Machinery, Brake Governing Apparatus Designed for Use With Industrial Machinery, Haulage and Conveyor Motors and Control Gear, and Overwind, Speed Control and Other Protective and Control Mechanisms for Mine Hoists or Winding Engines; Mechanical Gearing for Use in Connection With Power Plants and Dynamo Electric Machines; and Vacuum Distillation Apparatus.

Ser. No. 616,582. Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Filed July 17, 1951.

RIPL-FLO

Applicant disclaims the term "Flo" except as a part of the trade-mark "Ripl-Flo."
For Vibrating Screens.
Claims use since May 12, 1941.

Ser. No. 618,735. A. T. Ferrell & Co., Saginaw, Mich. Filed Sept. 13, 1951.

CLIPPER

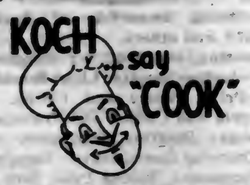
For Machines for the Handling, Cleaning, Grading and Treating of Seeds and Grain—Namely, Cleaning and Grading Machines, and Parts Thereof, Debearders and Scarifiers, Seed Treaters (Both Dust and Slurry) for Chemically Treating Seed and Grain To Kill Fungus Growth of All Kinds, Hullers, Bean Polishers, and Chain and Bucket Elevators With Their Casings.
Claims use since 1879.

Ser. No. 618,823. L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y. Filed Sept. 14, 1951. (Sec. 2f.)

Prize Winner

For Reconditioned Typewriters.
Claims use since April 1941.

Ser. No. 619,257. Peters & Russell, Inc., doing business as Koch Manufacturing Company, Springfield, Ohio. Filed Sept. 26, 1951.



No claim is made for the exclusive use of the expression "Koch . . . Say "Cook"" apart from the mark as shown.
For Automobile Exhaust Deflectors.
Claims use since Jan. 12, 1951.

Ser. No. 629,571. S. E. Haycraft, doing business as Barr Bros. Co., Oakland, Calif. Filed May 12, 1952.



Applicant disclaims the words "Trade Mark" apart from the mark shown on the drawing.
For Hand Tools—Namely, Butchers' and Upholsterers' Needle Pointed Tools (With and Without Handles) for Use in Packing, Baling, Upholstering, Etc.; Butchers' Masticators and Meat Tenderers; Butchers' Pins and Tiers; Meat Moulds; Stampers; Knives, and Pouches Therefor.
Claims use since Feb. 23, 1923.

Ser. No. 629,657. Dittmer Gear and Manufacturing Corp., Lockport, N. Y. Filed May 14, 1952. (Sec. 2f.)

"Second to None"

For Spur and Helical Gears, Shafts, Hubs, Flanges and Associated Parts—Namely, Springs, Bearings, Bushings, and Snap Rings, All for Use as Components in Power Mechanisms Generally but Particularly for Use in Internal Combustion Engines and Motor Vehicle Transmissions and Differentials.
Claims use since 1920.

Ser. No. 629,996. The Electric Sprayit Company, Sheboygan, Wis. Filed May 21, 1952. (Sec. 2f.)

SPRAYIT

Applicant claims ownership of Registration No. 236,705.
For Vacuum and Pressure Air Pumps, Spray Guns, Air and Gas Compressors and Parts Therefor.
Claims use since June 15, 1927.

Ser. No. 635,110. Casati Ernesto & Figli—Caser, Milan and Pavia, Italy. Filed Feb. 1, 1952.

CASER

Applicant claims ownership of Italian Registration No. 86,835, dated Mar. 7, 1949.
For Radial Drills, Special Boring Machines, Lathes, and Sewing Machines.

Ser. No. 636,374. National Sewing Machine Company, Belvidere, Ill. Filed Oct. 8, 1952.

Thread-O-Matic Tension

The words "Thread" and "Tension" are disclaimed apart from the rest of the mark.
For Sewing Machines and Attachments.
Claims use since July 25, 1952.

Ser. No. 641,867. Sears, Roebuck and Co., Chicago, Ill. Filed Feb. 6, 1953.

ALLSTATE

Applicant claims ownership of Registrations Nos. 310,535 and 524,143.
For Automobile, Tractor, and Motor Bike Parts—Namely, Mufflers, Muffler Supports and Brackets, Exhaust Pipes, Exhaust Clamps, Motor Supports, Valve Guides, Valve Springs, Grease Guns and Parts, Water Pumps, Air Compressors, Jacks (Hydraulic and Manual), Tire Pumps, Pistons, and Piston Skirt Expanders, Tractor Covers (Metal With Plastic Window), Fuel Pumps, Winches, Fans, Brake Relining Tools (Comprising Delining Frame and Punch Rivet Setter, Drill, Countersink, and Anvil), Clutch Plates, Universal Joint Assemblies, Gear and Pinion Sets, Wheel Bearings, Oil Pumps, Carburetors, Engines (Rebuilt), Crankshafts (New and Rebuilt), Tire Chain Appliers, Clutch Sets (Pressure Plate and Disc), Transmissions, Water Pump Repair Kits (Gaskets, Bushings, Pump Shafts, Bearings, Pump Flange), Fire Extinguishers, Connecting Rods, Mechanical Crankcase Drainers (Comprising Spring Actuated Push Button Valve, Flexible Cable and Parts Thereof), Cylinder Heads, Intake and Exhaust Valves.
Claims use since on or about July 15, 1945.

Ser. No. 642,604. John Royle & Sons, Paterson, N. J. Filed Feb. 24, 1953.

SPIROD

For Electrically Heated Extruder Cylinders, for Machines for Extruding Rubber, Rubber-Like Materials, and Plastic Materials.
Claims use since on or about Dec. 5, 1951.

Ser. No. 643,968. Hydramotive, Inc., Cleveland, Ohio. Filed Mar. 20, 1953.

HYDROTOR

For Hydraulically Operated Cranking Motors for Cranking Internal Combustion Engines.
Claims use since Feb. 13, 1953.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 602,340. International Projector Corporation, Bloomfield, N. J., assignee of Sec-O-Matic Corporation. Filed Aug. 17, 1950.

SEC-O-MISER

For Solvent Recovery Machines for Recovering Cleaning Solvents in Dry Cleaning Operations.
Claims use since Mar. 27, 1950.

Ser. No. 627,771. Anthony J. Perez, New Orleans, La. Filed Apr. 8, 1952.



The drawing is lined for the colors blue and red.
For Washing Machines.
Claims use since Dec. 5, 1951.

Ser. No. 643,568. United States Hoffman Machinery Corporation, Syracuse and New York, N. Y. Filed Mar. 12, 1953.



The mark consists of the representation of a tubular letter "H" lying on its side and preceded by a figure suggestive of a man's head, the prone "H" being followed by the word "Jet," together with other embellishments; the word "Jet" and the symbolic head being shown in white and the letter "H" in black against a red background, as indicated by the cross-hatch line-work.
For Self Balancing Extractor Tumblers and Combination Washer-Extractor Tumblers and Parts Thereof.
Claims use since Sept. 22, 1952.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 609,173. The Frederick Post Company, Chicago, Ill. Filed Jan. 24, 1951. (Sec. 2f.)

POST

Applicant claims ownership of Registrations Nos. 385,273, 385,274, and others.
For Engineering and Drafting Supplies as Follows: Sensitized Products—Namely, Light-Sensitive Papers and Cloths, Blue-Print Papers and Cloths, Direct-Printing Sensitized Papers and Cloths, and Transparentized Light-Sensitive Sheets; Drafting Equipment—Namely, Drawing Boards; Drawing Instruments—Namely, Dividers, Pen and Pencil Compasses, Ruling Pens, Bow Pens and Bow Pencils, Beam Compasses, and Cases Therefor; Ruled Scales of Various Types; Slide Rules and Other Rules of Sundry Types and Cases Therefor; Pantographs; Drafting Machines and Accessories Therefor—Namely, Angle-Iron Braces, Vertical Upright Braces, Drawing Boards, Stainless Steel Track, Weight Boxes, Scales, Cartridge Stabilizers, Weight Stabilizers and Straight Edges; Protractors of Sundry Types; Planimeters of Sundry Types; Triangles; Lettering and Drawing Guides for Draftsman's Use; Blackboard Dividers; Blackboard Drawing Sets Comprising T-Squares, Straight Edges, Triangles, and Protractors; Straight Edges; T-Squares; Fixed and Adjustable Drawing Curves and Weights and Splines Therefor; Mathematical Curve Drawing Guides; Ellipsographs; Copenhagen Ship Curves and Other Specialty Engineering Curves; Draftsman's Drawing Kits Comprising Drawing Boards, T-Squares, and Triangles; Drawing Table and Board Supporting Horses; Drafting Room Equipment—Namely, Drawing Stands, Drawing Tables, Tracing Tables, and Draftsman's Stools; Photographic Equipment—Namely, Photographic Clips, Metal Trays for Photographic Baths, Printing Frames, Vacuum Photographic Printing Frames and Carriages, Vacuum Pumps Therefor, and Replacement Parts for Said Frames and Carriages Including Vacuum Pads, Clamps, and Hose, Electric Lighted Vacuum Photographic Printing Frames, and Light Photographic Printing Machines; Surveying Equipment—Namely, Steel Chains, Leveling Rods, Stadia Rods, Range Poles, Surveyor's Levels and Transits, Magnetic Compasses and Dip Needles, Surveyor's Tripods, Surveyor's Plane Tables; Surveyor's, Engineer's and Architect's Field, Level, Transit, and Cross-Section Books, Which Are Partly Printed Matter; Surveyor's Carrying Bags; and Surveyor's Accessories—Namely, Scribes, Targets, Levels, Tallying Machines, Counters, Stake Tacks, Marking Pins and Arrows, and Plumb Bobs; and Engineering Equipment—Namely, Measuring Tapes of Sundry Types, Map Measures for Measuring Areas, Indicating Barometers, Recording Barometers, Recording Thermometers, Anemometers, Rain Gauges, Binoculars, Magnifying Glasses, and Reducing Glasses.
Claims use since about Jan. 10, 1936.

Ser. No. 629,965. Societe d'Optique & de Mecanique de Haute Precision, Paris, France. Filed May 20, 1952.

PAN-CINOR

Priority under Sec. 44(d). French application filed Nov. 22, 1951, Reg. No. 416,001, dated Nov. 22, 1951. No claim is made to the expression "Pan" apart from the trade-mark as used.
For Photographic Lenses With Variable Focal Lengths and View Finders With Variable Focus.

Ser. No. 630,297. The DoAll Company, Des Plaines, Ill. Filed May 28, 1952.

DoALL

Applicant claims ownership of Registrations Nos. 339,329, 390,078, and 394,883.
For Gaging Instruments and Attachments Therefor—Namely, Gage Blocks, Gage Block Holders, Machines and Apparatus for Measuring Surface Flatness by Optical Comparison and Parts Thereof, Calipers and Precision Dimension Gages and Parts Thereof, Sine Bars and Sine Plates, and Surface Plates.
Claims use since Mar. 1, 1935, as to the word feature "DoAll"; and since May 1, 1951, as shown.

Ser. No. 633,371. Magnaflux Corporation, Chicago, Ill. Filed Aug. 1, 1952.

MAGNATEST

For Electrical Instruments for Detecting Flaws or Irregularities in Metallic or Conductive Objects or Materials, for Determining Magnetic or Electrical Characteristics of Such Objects or Materials and for Determining Strength and Direction of Magnetic Fields.
Claims use since Apr. 17, 1952.

Ser. No. 643,590. The Jackson Electrical Instrument Company, Dayton, Ohio. Filed Mar. 13, 1953.

DYNAMIC

For Tube Testers, Radio and Television Testing Instruments Utilizing Tube Testers and Cathode Ray Tube Analyzers.
Claims use since Apr. 25, 1935.

Ser. No. 643,825. Duroloid Optical Company, Providence, R. I. Filed Mar. 18, 1953.

Glance

For Optical Frames.
Claims use since Jan. 2, 1953.

Ser. No. 643,826. Duroloid Optical Company, Providence, R. I. Filed Mar. 18, 1953.

Sentinel

For Optical Frames.
Claims use since Jan. 2, 1953.

Ser. No. 644,806. A. Capp & Son Limited, Crayford, Kent, England. Filed Apr. 8, 1953.

VERDICT

Applicant claims ownership of British Registration No. 578,016, dated June 21, 1937.
For Dimension Gauges.

Ser. No. 644,954. Bachmann Bros., Inc., Philadelphia, Pa. Filed Apr. 9, 1953.

HILO

For Sun Glasses.
Claims use since Mar. 18, 1953.

Ser. No. 644,955. Bachmann Bros., Inc., Philadelphia, Pa. Filed Apr. 9, 1953.

SENORITA

For Sun Glasses.
Claims use since Mar. 18, 1953.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 616,441. New England Mop Co., Central Falls, R. I. Filed July 13, 1951.

Hospital
MAGNETIC
Mop



The word "Hospital," the word "Mop," and the representation of the mop are disclaimed apart from the mark as shown.
For Wool Dust Mop for Cleaning and Polishing Floors.
Claims use since July 24, 1950.

Ser. No. 637,262. Binney & Smith Company, New York, N. Y. Filed Oct. 28, 1952. (Sec. 2f.)

ARTISTA

Applicant claims ownership of Registrations Nos. 165,139, 346,232, and others.
For Water Color Brushes.
Claims use since 1928.

Ser. No. 648,111. The Las-Stik Manufacturing Co., Hamilton, Ohio. Filed June 2, 1953.

Lasco

Applicant claims ownership of Registrations Nos. 144,426 and 128,098.
For Polishing Cloths.
Claims use since Mar. 1, 1923.

Ser. No. 648,112. The Las-Stik Manufacturing Co., Hamilton, Ohio. Filed June 2, 1953.

Las-stik

Applicant claims ownership of Registrations Nos. 144,426 and 128,098.
For Polishing Cloths.
Claims use since Mar. 1, 1923.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 576,839. Anthes Force Oiler Company, Fort Madison, Iowa. Filed Apr. 9, 1949. (Sec. 2f.)

ANTHES

For Highway Warning Signal Device Which Comprises a Reflector To Reflect the Light of Oncoming Vehicles Intended To Be Warned Back to the Source Thereof.
Claims use since June 1939.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 633,476. Rosario Musarra, doing business under the name Akron Accordian Center, Akron, Ohio. Filed July 31, 1952.

"Music-Eze"

The word "Music" is disclaimed apart from the mark as shown.
For Grooved Phonograph Records.
Claims use since Jan. 21, 1952.

Ser. No. 635,349. Dance Records, Inc., New York, N. Y. Filed Sept. 17, 1952.



The representation of the record is hereby disclaimed apart from the mark as shown. The figure in the drawing is a representation of Daniel J. Hoctor, president of applicant corporation.
For Grooved Phonograph Records.
Claims use since Aug. 25, 1950.

Ser. No. 638,678. W. Wagner, Jr., Gesellschaft mit Beschrankter Haftung, Plettenberg, Germany. Filed Nov. 26, 1952.



Fly Brand

The word "Brand" is disclaimed apart from the mark as shown.
For Tuning-Pins for Pianos.
Claims use since Sept. 9, 1905; and first used in commerce between the United States and Germany on Sept. 9, 1905.

Ser. No. 638,749. Vox Productions, Inc., New York, N. Y. Filed Nov. 28, 1952.

"Vienna State Philharmonia"

The word "Vienna" is disclaimed apart from the mark.
For Grooved Phonograph Records of Symphonic Music.
Claims use since Nov. 14, 1952.

Ser. No. 639,588. Arthur J. Petivan, Jr., doing business as Sunset Music Publications, New Orleans, La. Filed Dec. 16, 1952.

"THE TRADE-MARK OF CHOICE RECORDING" ARCADIA RECORDS

The word "Records" and the slogan "The Trade-Mark of Musical Distinction" are disclaimed apart from the trade-mark as shown on the drawing.
For Grooved Phonograph Records.
Claims use since Mar. 31, 1951.

Ser. No. 639,933. M. Hohner, Inc., New York, N. Y. Filed Dec. 23, 1952.

The BELLBIRD

For Harmonicas.
Claims use since Aug. 1, 1952.

Ser. No. 644,969. Gamma Records, Inc., St. Louis, Mo. Filed Apr. 9, 1953.

GAMMA

For Grooved Phonograph Records.
Claims use since Mar. 30, 1953.

CLASS 37

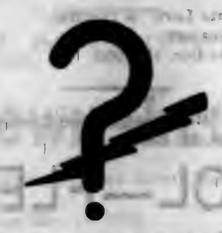
PAPER AND STATIONERY

Ser. No. 626,514. George La Monte & Son, Nutley, N. J. Filed Mar. 15, 1952. (Sec. 2f.)

PERFECT SAFETY PAPER

The words "Safety Paper" are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 63,009.
For Safety Paper Such as Is Used for Bank Checks, Bank Drafts, and Other Checks and Drafts, Bills of Exchange, Promissory Notes, Tickets, Certificates, and All Vouchers of Value.
Claims use since Sept. 15, 1894.

Ser. No. 638,818. Vincent A. Stace, Dearborn, Mich. Filed Dec. 1, 1952.



For Partially Printed Medical Summary Forms To Be Carried on the Person for the Protection of Individuals Requiring Special Medical Care.
Claims use since Oct. 25, 1952.

CLASS 39

CLOTHING

Ser. No. 608,508. Mercantile Stores Company, Inc., Wilmington, Del. Filed Jan. 8, 1951.

Clarice

For Women's Hosiery.
Claims use since Apr. 17, 1950.

Ser. No. 616,292. International Shoe Company, St. Louis, Mo. Filed July 10, 1951.

Arrowhead by Dorothy Dodd

"Dorothy Dodd" is a purely fanciful name and does not indicate any known individual. Applicant claims ownership of Registrations Nos. 45,850, 137,778, and others.
For Shoes of Leather, Fabric, and/or Combinations Thereof for Men, Women, and Children.
Claims use since May 9, 1951.

Ser. No. 634,442. Beautee-Fit Company, Los Angeles, Calif. Filed Aug. 26, 1952.

Circle-Lift

The word "Lift" is disclaimed when used apart from the mark shown in the drawing.
For Brassières, Foundation Garments, Girdles, and Garter Belts.
Claims use since June 20, 1936.

Ser. No. 636,279. Frielich Brothers Corporation, New York, N. Y. Filed Oct. 7, 1952.



Applicant hereby disclaims the descriptive word "Flex" apart from the mark as shown.
For Men's, Women's, and Children's Visors per se for Use on Hats and Caps.
Claims use since Feb. 1, 1950.

Ser. No. 636,281. Frielich Brothers Corporation, New York, N. Y. Filed Oct. 7, 1952.

FRIE-CORK

Applicant hereby disclaims the descriptive word "Cork" apart from the mark as shown.
For Men's, Women's, and Children's Visors per se for Use on Hats and Caps.
Claims use since Feb. 1, 1950.

Ser. No. 637,194. Seamprufe Incorporated, New York, N. Y. Filed Oct. 25, 1952.

SCULPTRONIC

For Women's and Misses' Slips, Bloomers, Petticoats, Nightgowns, Pajamas, Chemises, Step-Ins, Panties, and Stockings.
Claims use since July 10, 1952.

Ser. No. 638,441. The Selby Shoe Company, Portsmouth, Ohio. Filed Nov. 21, 1952. (Sec. 2f as to "Styl-eez.")

Styl-eez Easy Goers

Applicant claims ownership of Registrations Nos. 401,564 and 521,156.
For Women's Shoes Made From Leather, Fabric, Rubber, or Combinations of These Materials.
Claims use since Nov. 18, 1952, as to the mark shown; and since Mar. 1, 1929, as to the mark "Styl-eez."

Ser. No. 640,978. Troutman Garment Company, Troutman, N. C. Filed Jan. 19, 1953.

RED RAM

The drawing is lined for the color red.
For Men's Work Shirts.
Claims use since Dec. 26, 1952.

Ser. No. 641,904. Blue Ridge Manufacturers, Incorporated, Baltimore, Md. Filed Feb. 9, 1953.

BLUE JAY

Applicant claims ownership of Registration No. 85,990.
For Men's and Boys' Trousers, Coats, Overalls, and Outer Shirts.
Claims use since Nov. 17, 1911.

Ser. No. 642,564. Michaels, Stern & Company, Incorporated, Rochester, N. Y. Filed Feb. 20, 1953.

MT. ROCK KÜRL

The words "Kürl" and "Tailored" are disclaimed apart from the mark as shown in the drawing. Applicant claims ownership of Registrations Nos. 300,821, 242,500, 334,485, 339,722, 502,160, and 514,399.
For Men's and Boys' Clothing—Namely, Suits, Overcoats, and Topcoats.
Claims use since Mar. 1, 1930.

Ser. No. 642,609. Charles Brand and Sons, New York, N. Y. Filed Feb. 24, 1953.

GLEN ROCK

For Men's Hosiery.
Claims use since January 1926.

Ser. No. 643,552. B. Kuppenheimer and Co. Inc., Chicago, Ill. Filed Mar. 12, 1953.

Irish Traveler

Applicant disclaims the word "Irish" apart from the mark as shown.
For Men's Outer Coats.
Claims use since Mar. 1, 1953.

Ser. No. 643,612. The Roxborough Company, Philadelphia, Pa. Filed Mar. 13, 1953.

Mamselle

For Ladies' Full Fashioned and Seamless Nylon Hosiery.
Claims use since Feb. 9, 1931.

Ser. No. 643,667. Eastern Knitwear Co., Inc., New York, N. Y. Filed Mar. 16, 1953.

Anita Lord

The name "Anita Lord" is fanciful.
For Ladies' Sweaters.
Claims use since Dec. 15, 1952.

Ser. No. 643,840. Holeproof Hosiery Company, Milwaukee, Wis. Filed Mar. 18, 1953.

HOL—FLEX

For Men's Hosiery.
Claims use since Feb. 26, 1953.

Ser. No. 643,968. Maison Duffée Inc., New York, N. Y. Filed Mar. 20, 1953.

PARA-SHAWL

For Shawls or Stoles and the Same Secured to or Wrapped Around a Carrying Device, Such as a Parasol Handle or Stick.
Claims use since Mar. 3, 1953.

Ser. No. 644,400. Fitzgibbons Co., Framingham, Mass. Filed Mar. 30, 1953.

A Penny Porter ORIGINAL

"Penny Porter" is a coined name and is not the name of any particular individual. The word "Original" is disclaimed apart from the mark shown.
For Misses' Rain Coats and Capes.
Claims use since Feb. 21, 1953.

Ser. No. 644,413. Goodman & Suss Clothes Corporation, New York, N. Y. Filed Mar. 30, 1953.

VICURAN

For Men's and Young Men's Top Coats, Sport Coats, and Overcoats.
Claims use since Mar. 23, 1953.

Ser. No. 644,770. Merit Clothing Company, Mayfield, Ky. Filed Apr. 6, 1953.

The KNIGHTLY

For Men's Topcoats.
Claims use since on or about Mar. 1, 1952.

Ser. No. 644,850. Lebow Bros., Inc., Baltimore, Md. Filed Apr. 7, 1953.

CASHMIRACLE

For Men's Suits and Sports Coats.
Claims use since Nov. 6, 1950.

Ser. No. 644,958. Bedford Shirt Corp., New York, N. Y. Filed Apr. 9, 1953.

DOWN-ELLA

For Men's and Boys' Sport Shirts, Sport Jackets, and Sport Slacks.
Claims use since Mar. 10, 1953.

Ser. No. 645,198. John B. Stetson Company, Philadelphia, Pa. Filed Apr. 13, 1953. (Sec. 2f.)

Wilson

Applicant claims ownership of Registration No. 303,832.
For Hats and Caps for Men, Women, and Children.
Claims use since June 18, 1929.

Ser. No. 646,161. Peter Pan Foundations, Inc., New York, N. Y. Filed Apr. 29, 1953.

Merri-Maker

For Brassières.
Claims use since Mar. 31, 1953.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 644,957. Beacon Manufacturing Company, Swannanoa, N. C. Filed Apr. 9, 1953.

Yukon

Applicant claims ownership of Registration No. 191,896.
For Blankets Made Wholly of Cotton, of Cotton and Rayon, or of Cotton, Rayon, and Wool.
Claims use since Mar. 2, 1921.

Ser. No. 645,682. United Merchants and Manufacturers, Inc., New York, N. Y. Filed Apr. 21, 1953.

FORTSET

Applicant claims ownership of Registrations Nos. 345,553, 505,467, and others.
For Piece Goods of Cotton, Wool, Silk, Synthetic Fibers, and Combinations Thereof.
Claims use since on or about Apr. 1, 1953.

Ser. No. 645,796. D. B. Fuller & Co., Inc., New York, N. Y. Original filed, act of 1946, Supplemental Register, Apr. 23, 1953; amended to application, Principal Register, July 15, 1953.

Discriminating Cottons

The word "Cottons" is disclaimed apart from the mark as shown.
For Cotton Fabrics in the Piece.
Claims use since Mar. 3, 1952.

Ser. No. 646,353. Eugene T. Barwick, doing business as E. T. Barwick Mills, Chamblee, Ga. Filed May 4, 1953.

Mary-Etta

For Cotton Rugs and Carpeting.
Claims use since on or about Apr. 1, 1953.

Ser. No. 646,380. Goodall-Sanford, Inc., Sanford, Maine. Filed May 4, 1953.

CUBICAIR

For Piece Goods of Cotton, Rayon, and Mohair, and Combinations Thereof, Sold in Bolt.
Claims use since Sept. 26, 1952.

Ser. No. 646,381. Goodall-Sanford, Inc., Sanford, Maine. Filed May 4, 1953.

DARINA

For Piece Goods of Pure Wool or Blended Wool and Mohair or Alpaca, Sold in Bolt.
Claims use since Mar. 28, 1952.

Ser. No. 646,382. Goodall-Sanford, Inc., Sanford, Maine. Filed May 4, 1953.

DIRENA

For Piece Goods of Pure Wool or Blended Wool and Mohair or Alpaca, Sold in Bolt.
Claims use since Mar. 28, 1952.

Ser. No. 646,385. Goodall-Sanford, Inc., Sanford, Maine. Filed May 4, 1953.

MOLEEN

For Piece Goods of Pure Wool or Blended Wool and Mohair or Alpaca, Sold in Bolt.
Claims use since Mar. 28, 1952.

Ser. No. 646,386. Goodall-Sanford, Inc., Sanford, Maine. Filed May 4, 1953.

MOULON

For Piece Goods of 100 Per Cent Wool Pile With a Cotton Back, Sold in Bolt.
Claims use since Dec. 15, 1952.

Ser. No. 646,387. Goodall-Sanford, Inc., Sanford, Maine. Filed May 4, 1953.

TOUCHE

For Piece Goods of Pure Wool or Blended Wool and Mohair or Alpaca, Sold in Bolt.
Claims use since Feb. 25, 1953.

Ser. No. 646,393. Samuel Hird & Sons, Inc., Garfield, N. J., and New York, N. Y. Filed May 4, 1953.

VARILON

For Suiting Fabrics of Worsted and Synthetic Fibres in the Piece.
Claims use since on or about Nov. 11, 1952.

CLASS 43

THREAD AND YARN

Ser. No. 635,739. Beaunit Mills, Inc., New York, N. Y. Filed Sept. 25, 1952.

BEMBERG 41

Applicant claims ownership of Registrations Nos. 308,809, 346,325, 362,178, 362,179, and others.
For Thread and Yarn.
Claims use since May 7, 1952.

Ser. No. 635,740. Beaunit Mills, Inc., New York, N. Y. Filed Sept. 25, 1952.

BEMBERG 41

Applicant claims ownership of Registrations Nos. 308,809, 346,325, 362,178, and others.
For Thread and Yarn.
Claims use since May 7, 1952.

Ser. No. 646,321. Sellers Manufacturing Company, Saxapahaw, N. C. Filed May 1, 1953.

Orcot

For Yarn Made of Orion and Cotton.
Claims use since on or about Apr. 1, 1953.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 631,353. Arthur Grush, Brooklyn, N. Y. Filed June 18, 1952.

"The Woman Who Cares Carries"
SAN-TEE-NAP FOLD
Safe Thrifty Neat Feminine

Applicant disclaims the term "The Woman Who Cares Carries" and the words "Safe," "Thrifty," "Neat," and "Feminine" apart from the mark as shown.
For Wallets for Sanitary Napkins.
Claims use since May 3, 1952.

Ser. No. 636,957. Allied Commercial Corp., New York, N. Y. Filed Oct. 22, 1952.

Caress

For Electrically Heated Irons for Massage and Heat Treatment.
Claims use since Oct. 14, 1952.

Ser. No. 639,507. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern Brothers

For Sanitary Goods—Namely, Sanitary Pants, Perfume Atomizers, Sanitary Belts, Sanitary Napkins, and Manicure Sets Including Tweezers, Scissors, Nail Files, Cuticle Removers, and Orange Sticks.
Claims use since 1867.

Ser. No. 643,278. Carl Brandenfels, St. Helens, Oreg. Filed Mar. 9, 1953.

BRANDENFELS
STIM-U-ROLS MASSAGER

The mark consists of the words and a design which fancifully represents an ocean wave and sea gulls in flight. The words "Massager," "Brandenfels," and "Rols" are disclaimed apart from the mark as shown.
For Massaging and Manipulating Devices for Body Stimulation and Therapeutic Purposes and Accessories Therefor.
Claims use since on or about Feb. 16, 1953.

Ser. No. 645,206. Ward Green Company, New York, N. Y. Filed Apr. 13, 1953.

REDUSAWAY

For Electro-Mechanical Massager.
Claims use since Apr. 1, 1953.

Ser. No. 646,018. Boycemore Toiletries, Inc., doing business as Shy Products Co., Chicago, Ill. Filed Apr. 27, 1953.

Trousseau Model

No registration rights are claimed for the word "Model" apart from the mark shown in the drawing.
For Vaginal Syringes.
Claims use since Mar. 5, 1953.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 600,729. David F. McCallister, Upper Darby, Pa., assignor to McCallister and Company, Cheltenham, Pa., a partnership. Filed July 15, 1950.

McCALLISTER'S
EXCLUSIVE
MC

Applicant disclaims the name "McCallister's" and the word "Exclusive" apart from the mark as shown.
For Frozen Snapper Soup.
Claims use since Mar. 1, 1950.

Ser. No. 601,486. P. Håkanssons Konserver Aktiebolag, Eslov, Sweden. Filed July 28, 1950.

felix

Applicant claims ownership of Swedish Registration No. 68,058, dated Apr. 14, 1950.
For Fruit and Berry Preserves, Jams, Marmalades; Fruit Syrups for Food Purposes; Pickles; Sauces; Mustard; Canned Meat Balls, Canned Beef, and Canned Corn Beef Hash.

Ser. No. 609,469. Andes Fruit & Produce Corp., New York, N. Y. Filed Feb. 1, 1951.

SAFCO

For Fresh and Canned Cherries, Apples, Pears, Plums, Nectarines, Peaches, Apricots, Grapes, and Honeydew Melons; and Dried Prunes, Apples, Pears, Grapes, Peaches, and Apricots; and Fresh Onions and Garlic.
Claims use since Jan. 30, 1935.

Ser. No. 622,720. William Howard Kauffman, Waterman, Ill. Filed Dec. 20, 1951.

Howard Kauffman's
HO-KA

The name "Howard Kauffman" is that of the applicant, and it is the name under which he does business. The drawing is lined for red.
For Fresh Dressed Poultry, Both Frozen and Unfrozen, Poultry Feed and Livestock Feed.
Claims use since Oct. 29, 1951.

Ser. No. 625,380. Wolf Foods, Inc., Kansas City, Mo. Filed Feb. 21, 1952.

RE-PLACEMENT

For Soya Lecithin for Use as a Food.
Claims use since Dec. 26, 1951.

Ser. No. 625,968. Consolidated Badger Cooperative, doing business as Consolidated Badger, Inc., Shawano, Wis. Filed Mar. 5, 1952.

MELLOHEAT

For Non-Fat Dry Milk Solids.
Claims use since Apr. 1, 1951.

Ser. No. 627,365. Wilson Products Company, Salt Lake City, Utah. Filed Mar. 31, 1952.

LYNN
Wilson's

For Gravy Mix, Potato Salad, Macaroni Salad, Fruit Salad, Cole Slaw, Salad Dressing, Horseradish, Horseradish Relish, and Fish Sauce.
Claims use since on or about Apr. 1, 1951.

Ser. No. 635,860. United Growers, Inc., Salem, Oreg. Filed Sept. 26, 1952.

EDENSIDE

For Canned Fruits, Canned Vegetables, Canned Berries, Frozen Fresh Fruits, Frozen Fresh Vegetables, and Frozen Fresh Berries.
Claims use since Feb. 15, 1951.

Ser. No. 642,779. Standard Brands Incorporated, New York, N. Y. Filed Feb. 25, 1953.

GOOD-NITE

For Instant Coffee.
Claims use since Jan. 6, 1953.

Ser. No. 642,935. Booth Fisheries Corporation, Chicago, Ill. Filed Mar. 2, 1953.

Davy Jones

The name "Davy Jones" does not identify any particular living individual. Applicant claims ownership of Registration No. 371,509.
For Fresh and Frozen Shrimp.
Claims use since June 30, 1952.

Ser. No. 643,460. Booth Fisheries Corporation, Chicago, Ill. Filed Mar. 11, 1953.

GREEN DIAMOND

Applicant claims ownership of Registrations Nos. 71,488, 94,872, 110,393, 119,643, and others.
For Fresh and Frozen Shrimp.
Claims use since Jan. 26, 1953.

Ser. No. 644,305. International Milling Company, Minneapolis, Minn. Filed Mar. 27, 1953.

BIG ROLL

Applicant claims ownership of Registration No. 344,235
For Wheat Flour.
Claims use since Sept. 8, 1936.

Ser. No. 644,463. Standard Brands Incorporated, New York, N. Y. Filed Mar. 30, 1953.

BULL'S EYE

For Coffee.
Claims use since Feb. 20, 1953.

Ser. No. 646,250. Welch Nut & Candy Co., Chicago, Ill. Filed Apr. 30, 1953.

POPSIE'S POPS

The word "Pops" is disclaimed apart from the mark as shown.
For Candy.
Claims use since Oct. 3, 1952.

CLASS 47

WINES

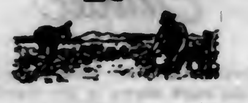
Ser. No. 620,636. Wilen Brothers, Inc., Philadelphia, Pa. Filed Oct. 29, 1951.

GOLD RUSH

For Wines—Namely, Muscatel, Port, White Port, Sherry, Red Tokay, and White Tokay.
Claims use since Dec. 9, 1935.

Ser. No. 620,637. Wilen Brothers, Inc., Philadelphia, Pa. Filed Oct. 29, 1951.

GOLD RUSH



For Wines—Namely, Muscatel, Port, White Port, Sherry, Red Tokay, and White Tokay.
Claims use since July 5, 1951, on the mark as shown; the trade-mark "Gold Rush" was first used on or about Dec. 9, 1935.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 628,360. Master Matrix Service Company, Inc., New York, N. Y. Filed Apr. 19, 1952.



For Matrices.
Claims use since Mar. 20, 1951.

Ser. No. 630,392. Dazian's, Inc., New York, N. Y. Filed May 28, 1952.

Spirolum

For Decorative Streamers Fabricated of Corrugated Aluminum Strips.
Claims use since May 29, 1951.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 587,437. Glorion Corporation of America, Beverly Hills, Calif. Filed Nov. 7, 1949.

GLORION

For Facial Oil in the Nature of a Skin Conditioner.
Claims use since July 29, 1949.

Ser. No. 612,522. The Procter & Gamble Company, Cincinnati, Ohio. Filed Apr. 11, 1951.

Beauty Secret

Applicant disclaims the word "Beauty" except in the particular combination shown in the drawing. Applicant claims ownership of Registration No. 510,492.
For Permanent Waving Kit Consisting of Cold Wave Waving Lotion and Neutralizer Powder Used in Permanent Waving of the Hair.
Claims use since Feb. 13, 1951.

Ser. No. 632,150. Bronislawa Wolocko, doing business as Bronislawa, Salem, Mass. Filed July 5, 1952.



The words "Oil of Grass of Jamaica B. W. I." are disclaimed apart from the mark as shown.
For Perfumes and Deodorants.
Claims use since Feb. 2, 1952.

Ser. No. 639,946. Malloy Laboratories, Inc., San Diego, Calif. Filed Dec. 23, 1952.

femaphyll

For Deodorizing Powder.
Claims use since Oct. 16, 1951.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 625,724. Edwards & Gravely Company, Martinsville, Va. Filed Feb. 29, 1952.

Aero-Zene

For Glass Cleaning Fluid.
Claims use since Feb. 4, 1952.

Ser. No. 636,177. New South Manufacturing Company, Atlanta, Ga. Filed Oct. 4, 1952.

QUIKSAN

For Chemical Preparation for Removing Paints, Varnishes, Sealers, and Similar Substances.
Claims use since on or about Oct. 15, 1951.

SERVICE MARKS

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 601,635. Harold V. Maguire, Jamaica, N. Y. Filed Aug. 2, 1950.



Applicant disclaims the slogan "Built on the Strongest Lines" when used separate and apart from the mark.
For General Insurance Brokerage—Namely, Fire; Extended Coverage; Windstorm, Including Hail; Riot and Civil Commotion; Sprinkler Leakage; Earthquake; Inland Marine; Automobile; Aircraft; Motor Vehicle Property Damage; Vandalism and Malicious Mischief; Accident, Theft, Health and Sickness; Life; Annuities; Hospitalization.
Claims use since July 12, 1950.

CLASS 106

MATERIAL TREATMENT

Ser. No. 641,664. Associated Dye & Print Co. Inc., Paterson, N. J. Filed Feb. 3, 1953.

LAUNDROMASTER

For Treating Textile Fabrics of Manufacturers To Control Shrinkage and Increase Fastness of Color in Washing.
Claims use since Jan. 9, 1953.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 641,161. Arthur-Sampson Enterprises, Inc., Cincinnati, Ohio. Filed Jan. 22, 1953.

NO SCHOOL TODAY

For Entertainment Services for School Children Presented by Means of Program Broadcasts From Time to Time, of Children's Stories, Adventure Sequences and Songs.

Claims use since Nov. 27, 1948.

Ser. No. 646,144. Franklin L. Lederach, doing business as Eastern Television Productions, Philadelphia, Pa. Filed Apr. 29, 1953.

FUN and Fortune

For Entertainment Service Through the Medium of Television Audience Participation Programs.

Claims use since Jan. 6, 1953.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,790. Tricot Knit Fabrics in the Piece, Made From Silk, Rayon, Nylon, Wool and Combinations of the Same. Fairy Silk Mills, Shillington, Pa.
Filed Jan. 25, 1946, Serial No. 495,369. Published Aug. 23, 1949. Class 42.

ACT OF 1946, PRINCIPAL REGISTER

580,150. Shoes, Particularly for Ladies' and Misses' Shoes Made of Leather or Fabric or Combinations of the Same. Wohl Shoe Company, St. Louis, Mo.
Filed Dec. 19, 1947, Serial No. 544,955. Published June 16, 1953. Class 39.

580,151. Printed Publications Published Periodically in the Form of Pamphlets and Bulletins Relating to Machinery and Chemicals and Their Use in Commercial Processes. Virginia Smelting Company, West Norfolk, Va.
Filed Feb. 20, 1948, Serial No. 550,278. Published June 16, 1953. Class 38.

580,152. Children's Boots and Shoes. Thompson Bros. Shoe Co., Brockton, Mass.
Filed Apr. 15, 1948, Serial No. 554,736. Published June 16, 1953. Class 39.

580,153. Children's Boots and Shoes. Thompson Bros. Shoe Co., Brockton, Mass.
Filed Apr. 15, 1948, Serial No. 554,737. Published June 16, 1953. Class 39.

580,154. Men's, Young Men's, and Youths' Clothing—Namely, Overcoats, Suits, Trousers, Raincoats, Topcoats, Sport Coats. Sears, Roebuck and Co., Chicago, Ill.
Filed June 16, 1948, Serial No. 559,332. Published June 16, 1953. Class 39.

580,155. Grooved Phonograph Records. Gold Rain Recording Company, Detroit, Mich.
Filed June 22, 1946, Serial No. 550,920. Published June 30, 1953. Class 36.

580,156. Wallpaper. Canadian Wallpaper Manufacturers Limited, Toronto, Ontario, Canada, assignee of The Reg. N. Boxer Company Limited.
Filed July 15, 1948, Serial No. 561,487. Published May 26, 1953. Class 37.

580,157. Medicinal Salves. Loraine H. Korman, doing business as The J. W. Cole Company, Chicago, Ill.
Filed Oct. 18, 1948, Serial No. 567,148. Published June 23, 1953. Class 18.

580,158. Children's Play Clothes—Namely, Crawlers, Pants, Coveralls, Outer Shorts, Sunsuits, and Jeans. Harry Lang Mfg. Co., Minneapolis, Minn.
Filed Apr. 20, 1949, Serial No. 577,439. Published Oct. 24, 1950. Class 39.

580,159. Various and Sundry Metal Hooks—Namely, Choker Hooks, Butt Hooks, Etc. Electric Steel Foundry, Portland, Oreg.
Filed June 2, 1949, Serial No. 579,866. Published June 23, 1953. Class 13.

580,160. Shoes for Children and Girls. Foot Pleasure Shoe Company, St. Louis, Mo.
Filed Feb. 3, 1950, Serial No. 592,140. Published June 16, 1953. Class 39.

580,161. Wire Rope. A. Leschen & Sons Rope Company, St. Louis, Mo.
Filed Jan. 23, 1950, Serial No. 592,735. Published June 16, 1953. Class 7.

580,162. Hones, Abrasive Stones, Abrasive Grains, and Abrasive Sticks for Use in Holders. Sunnen Products Company, St. Louis, Mo.
Filed Dec. 1, 1949, Serial No. 593,317. Published June 16, 1953. Class 4.

580,163. Thin Leathers. Hoyt and Worthen Tanning Corporation, Haverhill, Mass.
Filed Mar. 23, 1950, Serial No. 594,460. Published June 16, 1953. Class 1.

580,164. Men's and Women's Suits and Coats. Patton Manufacturing Company, Decherd, Tenn., now by change of name N. M. Patton and Company.
Filed Apr. 19, 1950, Serial No. 595,975. Published Oct. 14, 1952. Class 39.

580,165. Hand Tool in the Form of a Conduit Provided With a Coupling Element at Each End Thereof, Etc. Pennsylvania Refining Company, Butler, Pa.
Filed Apr. 26, 1950, Serial No. 596,356. Published June 16, 1953. Class 23.

580,166. Knitted Socks With Soles for Indoor Wear. May Hosiery Mills, Nashville, Tenn.
Filed May 22, 1950, Serial No. 597,890. Published Mar. 18, 1952. Class 39.

580,167. Men's, Women's, and Children's Hats and Hat Bodies of Felt and Fur. Merrimac Hat Corporation, New York, N. Y.
Filed July 10, 1950, Serial No. 600,441. Published June 30, 1953. Class 39.

580,168. Binders, Covers or Folders, Partially Printed Forms, and Fastening Devices or Attachments, Etc. Charles R. Hadley Company, Los Angeles, Calif.
Filed Aug. 4, 1950, Serial No. 601,723. Published May 12, 1953. Class 37.

580,169. Men's Slippers in the Form of Slipper Socks Comprising a Fabric Top and Solid Composition Sole. The Nolde and Horst Company, Reading, Pa.
Filed Aug. 9, 1950, Serial No. 601,997. Published June 2, 1953. Class 39.

580,170. Internal Combustion Engines for General Power Application, Etc. Gray Marine Motor Company, Detroit, Mich.
Filed Aug. 10, 1950, Serial No. 602,029. Published June 16, 1953. Class 23.

580,171. Internal Combustion Engines for General Power Application, Etc. Gray Marine Motor Company, Detroit, Mich.
Filed Aug. 10, 1950, Serial No. 602,030. Published June 16, 1953. Class 23.

580,172. Shampoo. Potter Drug & Chemical Corporation, Malden, Mass.
Filed Oct. 6, 1950, Serial No. 604,545. Published June 9, 1953. Class 52.

580,173. Weather-Proof Coating Composition Having Incidental Insulating Properties. The Aber Company Inc., Houston, Tex.
Filed Oct. 25, 1950, Serial No. 605,389. Published June 16, 1953. Class 16.

580,174. Rock Crushers, Sheave Blocks, Sheave Anchors, Slushing Scrapers, Rock Bit Grinders, Renewable Tractor Sprocket Rims, and Rock Bit Knockoff Tools. Alloy Steel and Metals Company, Los Angeles, Calif.
Filed Oct. 30, 1950, Serial No. 605,829. Published June 16, 1953. Class 23.

580,175. Women's Hosiery. Stineway Drug Company, Chicago, Ill.
Filed Nov. 4, 1950, Serial No. 605,926. Published June 16, 1953. Class 39.

580,176. Metal Drum and Container Reconditioning Equipment, Etc. Drum Equipment Corporation, Elisabeth, N. J.
Filed Dec. 6, 1950, Serial No. 607,319. Published June 16, 1953. Class 23.

580,177. Cold Cure Adhesive Cement and Rim and Gasket Shellac Adhesive Compound. The General Tire & Rubber Company, Akron, Ohio.
Filed Dec. 8, 1950, Serial No. 607,426. Published June 23, 1953. Class 5.

580,178. Men's Clothing—Namely, Coats, Topcoats, and Suits. Eagle Clothes, Inc., New York, N. Y.
Filed Dec. 19, 1950, Serial No. 607,847. Published Aug. 26, 1952. Class 39.

580,179. Men's Clothing—Namely, Coats, Topcoats, and Suits. Eagle Clothes, Inc., New York, N. Y.
Filed Dec. 19, 1950, Serial No. 607,848. Published June 16, 1953. Class 39.

580,180. Scuffs or Slippers for Men and Women. R. G. Barry Corporation, Columbus, Ohio.
Filed Dec. 21, 1950, Serial No. 607,920. Published June 16, 1953. Class 39.

580,181. Vitamin-Mineral Food Supplement. Family Products, Inc., Chicago, Ill., assignor to Inapak Corporation, Chicago, Ill., a corporation of Delaware.
Filed Feb. 12, 1951, Serial No. 609,970. Published June 16, 1953. Class 18.

580,182. Apparatus To Be Used as a Complete Unit in Surgery, Whereby a Radio or High Frequency Current Is Produced, Etc. Wappler, Inc., New York, N. Y.
Filed Jan. 10, 1951, Serial No. 610,397. Published June 23, 1953. Class 44.

580,183. Decorated Metallic Receptacles—Namely, Dishes and Trays. I. D. Company, New York, N. Y.
Filed Mar. 13, 1951, Serial No. 611,227. Published July 7, 1953. Class 13.

580,184. Posting Boards and Partially Printed Forms for Use Therewith—Namely, Payroll Earnings Record Sheets, Payroll Summary Sheets, Payroll Bank Checks, and Payroll Cash Statements Sold as Such. The Todd Company, Inc., Rochester, N. Y.
Filed Apr. 20, 1951, Serial No. 612,939. Published May 19, 1953. Class 37.

580,185. Compound Useable as a Gasoline Dehydrating Additive and Carburetor Cleaner. Clarence M. Wynn, doing business as Wynoil Laboratories, Azusa, Calif.
Filed May 1, 1951, Serial No. 613,391. Published June 16, 1953. Class 52.

580,186. Articles Made of Plastics—Namely, Billfolds, Coin Purses, Pocket Secretaries, Key Cases, Luggage Identification Tag Holders, and Personal Card Cases. Wright Leather Specialty Co., St. Louis, Mo.
Filed May 31, 1951, Serial No. 614,599. Published June 16, 1953. Class 3.

580,187. Ladies' Underwear, Slips, Nightgowns, and Pajamas. Goldblatt Bros. Inc., Chicago, Ill.
Filed June 4, 1951, Serial No. 614,698. CONCURRENT USE. Published June 16, 1953. Class 39.

580,188. Glove Holders Adapted To Be Fastened to a Purse, Etc. Helena Rubinstein, Inc., New York, N. Y.
Filed June 4, 1951, Serial No. 614,722. Published May 12, 1953. Class 40.

580,189. Women's Casual Shoes. Oomphies, Inc., New York, N. Y.
Filed June 26, 1951, Serial No. 615,719. Published Sept. 23, 1952. Class 39.

580,190. Sandwich Made of Frankfurters Blended With Cheese. Robert Albe, West Keansburg, N. J.
Filed June 27, 1951, Serial No. 615,739. Published June 30, 1953. Class 46.

580,191. Metallic Cleaning Shot for Cleaning, Peening, Tumbling, Cutting, and Abrading. Metals Disintegrating Company, Inc., Elisabeth, N. J.
Filed June 28, 1951, Serial No. 615,844. Published June 30, 1953. Class 4.

580,192. Table Top Protectors Made of Textile Padding and Also of Flexible Padded Plastic Film. Space-Maid, Inc., New York, N. Y.
Filed June 30, 1951, Serial No. 615,947. Published June 30, 1953. Class 42.

580,193. Facial and Toilet Tissue, Wax Paper, Paper Napkins, Paper Towels, Etc. Tested Papers of America, Inc., Chicago, Ill.
Filed July 14, 1951, Serial No. 616,521. Published May 19, 1953. Class 37.

580,194. Paper Towels, Facial Tissue, Toilet Tissue, Paper Toilet Seat Covers, Etc. Tested Papers of America, Inc., Chicago, Ill.
Filed July 14, 1951, Serial No. 616,524. Published May 19, 1953. Class 37.

580,195. Paper Bags. Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass.
Filed July 26, 1951, Serial No. 616,980. Published June 23, 1953. Class 2.

580,196. Paper Bags. Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass.
Filed July 26, 1951, Serial No. 616,987. Published June 23, 1953. Class 2.

580,197. Yogurt. Marcus Lipsky, doing business as El Rancho Yugurti, Monrovia, Calif.
Filed July 30, 1951, Serial No. 617,116. Published June 30, 1953. Class 46.

580,198. Women's, Misses', Juniors', and Children's Dresses, Suits, Etc. Chalet, Inc., Dallas, Tex.
Filed Aug. 1, 1951, Serial No. 617,188. Published June 16, 1953. Class 39.

580,199. Chemical Compound for Removing Soot Which Eliminates Soot by Being Sprinkled Upon Coal Fed Into the Stoker, and in Other Ways. Universal Refining Products Co., Inc., New York, N. Y.
Filed Aug. 14, 1951, Serial No. 617,684. Published June 23, 1953. Class 52.

580,200. Plumbing Fixtures—Namely, Tub Filler Valve Units, Etc. Stephen A. Young Corporation, Flora, Ind.
Filed Aug. 22, 1951, Serial No. 617,976. Published July 7, 1953. Class 13.

580,201. Men's and Boys' Apparel and Sportswear—Namely, Undershirts, Vests and Union Suits, Sweat Shirts, Sweaters, Outer Shirts, and Warm-Up Jackets. The Russell Manufacturing Company, Alexander City, Ala.
Filed Aug 25, 1951, Serial No. 618,099. Published June 16, 1953. Class 39.

580,202. Saddle Soap. Carr & Day & Martin Limited, New Southgate, London, England.
Filed Aug. 30, 1951, Serial No. 618,228. Published June 16, 1953. Class 52.

580,203. Coating Compositions and Ingredients Thereof Having Selective Water-Attractiveness for Lithographic Surfaces. Harris-Seybold Company, Cleveland, Ohio.
Filed Sept. 6, 1951, Serial No. 618,451. Published June 30, 1953. Class 6.

580,204. Cotton Duck. Sherman Manufacturing Company, Sherman, Tex.
Filed Sept. 7, 1951, Serial No. 618,513. Published June 30, 1953. Class 42.

580,205. Dry-Cleaning Preparations for Professional Use. Adco, Inc., Sedalia, Mo.
Filed Sept. 13, 1951, Serial No. 618,720. Published June 16, 1953. Class 52.

580,206. Draperies—Namely, Window and Shower Curtains, Curtains for Doorways. Riverdale Manufacturing Co., Inc., New York, N. Y.
Filed Sept. 14, 1951, Serial No. 618,816. Published June 30, 1953. Class 42.

580,207. Jewelry for Personal Wear, Not Including Watches—Namely, Trinkets, Necklaces, Bracelets, Finger Rings, Earrings, Brooches, and Ornamental Clips Made in Whole of, in Part of, or Plated With Precious Metals. Comptoir de l'Industrie Cotonniere Société à Responsabilité Limitée, Paris, France.
Filed Sept. 11, 1951, Serial No. 619,485. Published June 9, 1953. Class 28.

580,208. Rust and Stain Remover. Lee C. Miller, Sr., doing business as Zip Products Co., Clyde, Ohio.
Filed Oct. 10, 1951, Serial No. 619,841. Published June 23, 1953. Class 52.

580,209. Sinks. Active Tool & Manufacturing Co., Detroit, Mich.
Filed Oct. 17, 1951, Serial No. 620,079. Published June 30, 1953. Class 13.

580,210. Sanitary Belts. Beltx Corporation, St. Louis, Mo.
Filed Oct. 22, 1951, Serial No. 620,298. Published Apr. 7, 1953. Class 44.

580,211. Replacement Faucet Seats. Snap Products Corp., Syracuse, N. Y., assignor, by mesne assignments, to Snap Products Corp., Chicago, Ill., a corporation of Illinois.
Filed Oct. 29, 1951, Serial No. 620,627. Published July 7, 1953. Class 13.

580,212. Detergents—Namely, Tri-Sodium Phosphate, Etc. Petroleum Solvents Corporation, New York, N. Y.
Filed Dec. 12, 1951, Serial No. 622,405. Published Dec. 16, 1952. Class 52.

580,213. Men's, Women's, Boys', and Girls' Jackets. Amco Athletic Apparel Corp., New York, N. Y.
Filed Dec. 13, 1951, Serial No. 622,421. Published June 16, 1953. Class 39.

580,214. Leather and Rubber Shoes. Thalheim's Wearwell Shoe Co. Inc., New York, N. Y.
Filed Dec. 26, 1951, Serial No. 622,870. Published June 16, 1953. Class 39.

580,215. Men's, Women's, and Children's Underwear, Pajamas, and Sweaters. Best Wear Products, Inc., New York, N. Y., assignee of Rubin-Meltzer Company.
Filed Dec. 28, 1951, Serial No. 622,958. Published June 2, 1953. Class 39.

580,216. Ladies' Slippers. Feder Industries, Inc., New York, N. Y.
Filed Jan. 2, 1952, Serial No. 623,048. Published June 16, 1953. Class 39.

580,217. Phonographs and Recorders of the Grooved Phonograph Type. Miller and Rhoads, Incorporated, Richmond, Va.
Filed Dec. 10, 1951, Serial No. 623,115. Published June 30, 1953. Class 36.

580,218. Walking Canes, Parasols, and Umbrellas. Miller and Rhoads, Incorporated, Richmond, Va.
Filed Dec. 10, 1951, Serial No. 623,117. Published May 19, 1953. Class 41.

580,219. Package Forming, Filling, and Sealing Machines, Etc. Aktiebolaget Tetra Pak, Lund, Sweden.
Filed Jan. 10, 1952, Serial No. 623,384. Published June 16, 1953. Class 23.

580,220. Package Forming, Filling, and Sealing Machines, Etc. Aktiebolaget Tetra Pak, Lund, Sweden.
Filed Jan. 10, 1952, Serial No. 623,386. Published June 16, 1953. Class 23.

580,221. Binders for Holding Accounting Forms and Blank Forms Therefor. Theron E. Capp, Duncan, Okla.
Filed Jan. 16, 1952, Serial No. 623,645. Published June 16, 1953. Class 37.

580,222. Exothermic Compounds Containing Primarily Aluminum and Oxidizing Agents, Etc. Foundry Services Limited, Birmingham, England.
Filed Jan. 30, 1952, Serial No. 624,266. Published Jan. 20, 1953. Class 6.

580,223. Degreasing Compound for Cleaning Brake Linings, Wheels, Chassis, Tools, Elevator Shafts, Etc. R. M. Hollingshead Corporation, Camden, N. J.
Filed Feb. 5, 1952, Serial No. 624,547. Published June 9, 1953. Class 52.

580,224. Leather Boots and Shoes for Men, Women, and Children. Chippewa Shoe Co., Chippewa Falls, Wis.
Filed Feb. 7, 1952, Serial No. 624,632. Published June 2, 1953. Class 39.

580,225. Liquid Cleanser, Deodorant, and Disinfectant for General Cleaning Purposes Including Water Closets and Urinals; and Sinks and Wash Basins. West Disinfecting Company, Long Island City, N. Y.
Filed Feb. 18, 1952, Serial No. 625,161. Published June 23, 1953. Class 52.

580,226. Clothing Containing Synthetic Fiber—Namely, Hosiery Containing Such Fiber. American Cyanamid Company, New York, N. Y.
Filed Feb. 19, 1952, Serial No. 625,183. Published June 16, 1953. Class 39.

580,227. Synthetic Granular Bone Char for Use as an Adsorbent for Purifying and Refining Saccharides. Baugh and Sons Company, Baltimore, Md.
Filed Feb. 29, 1952, Serial No. 625,710. Published June 30, 1953. Class 6.

580,228. Cuff Links and Buttons Made of Non-Precious Material. Olin Industries, Inc., East Alton, Ill.
Filed Mar. 5, 1952, Serial No. 625,999. Published June 2, 1953. Class 40.

580,229. Plant Hormones Combined With Seed Disinfectants and Protectants. Berry Seed Company, also doing business under the names Griswold Seed Co., Mid-Continent Seeds Inc., Standard Seed and Feed Company, Standard Seed Co., and American Field Seed Co., Clarinda, Iowa.
Filed Mar. 8, 1952, Serial No. 626,142. Published June 16, 1953. Class 10.

580,230. Table Salt. Productos Salinos, Inc., Ponce, P. R.
Filed Mar. 12, 1952, Serial No. 626,340. Published June 30, 1953. Class 46.

580,231. Rubber Vehicle Tires. The Dayton Rubber Company, Dayton, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio.
Filed Apr. 1, 1952, Serial No. 627,383. Published May 12, 1953. Class 35.

580,232. Detergents, Soaps and Scouring Agents, Etc. Arkansas Company Inc., Newark, N. J.
Filed Apr. 7, 1952, Serial No. 627,663. Published June 16, 1953. Class 52.

580,233. Shoes for Men, Women, and Children. Handcraft Company, Inc., Princeton, Wis.
Filed Apr. 8, 1952, Serial No. 627,745. Published June 16, 1953. Class 39.

580,234. Rubber Insoles. Standard Insole Company, Inc., Morris Plains, N. J.
Filed Apr. 8, 1952, Serial No. 627,778. Published May 19, 1953. Class 39.

580,235. Compound in the Nature of a Disinfectant, Bleach, Cleanser, and Deodorant. Lawrence Vannozzi, doing business under the trade name of Wonder Chemical Co., Trenton, N. J.
Filed Apr. 8, 1952, Serial No. 627,784. CONCURRENT USE. Published June 9, 1953. Class 52.

580,236. Preparation in Tablet Form for Indigestion Due to Over-Indulgence of Fats. Allied Drugs, Inc., Hackensack, N. J.
Filed Apr. 11, 1952, Serial No. 627,918. Published June 23, 1953. Class 18.

580,237. Nitrogen Solutions Used as or in the Production of Soil Fertilizers. Commercial Solvents Corporation, New York, N. Y.
Filed Apr. 11, 1952, Serial No. 627,930. Published June 16, 1953. Class 10.

580,238. Tablet Consisting of a Sedative and Muscular Relaxant. Schenley Laboratories, Inc., New York, N. Y.
Filed Apr. 11, 1952, Serial No. 627,964. Published June 16, 1953. Class 18.

580,239. Polyvinyl Pyrrolidone in Bulk. Schenley Laboratories, Inc., New York, N. Y.
Filed Apr. 11, 1952, Serial No. 627,971. Published June 16, 1953. Class 18.

580,240. Gun Cases, Saddle Scabbards, Pistol Holsters, and Cartridge Cases. The Schoellkopf Company, Dallas, Tex.
Filed Apr. 17, 1952, Serial No. 628,227. Published June 16, 1953. Class 9.

580,241. Iced Cakes of Ornamental Outline. Bren Products, Incorporated, Arlington, Va.
Filed Apr. 28, 1952, Serial No. 628,805. Published June 30, 1953. Class 46.

580,242. Cleaning Fluid for Rugs, Carpets, Fabrics, and Coverings. Maurice Oliver Wendell Holmes, Vancouver, British Columbia, Canada.
Filed May 1, 1952, Serial No. 629,018. Published June 16, 1953. Class 52.

580,243. Remedies for Tuberculosis. Chemie Grünenthal G. m. b. H., Stolberg im Rheinland, Germany.
Filed May 7, 1952, Serial No. 629,285. Published June 23, 1953. Class 18.

580,244. Lumber. Balsa Ecuador Lumber Corp., New York, N. Y.
Filed May 8, 1952, Serial No. 629,342. Published Jan. 20, 1953. Class 12.

580,245. Safety Pins, Straight Pins, Veil Pins, Hat Pins, Tidy Pins, Silk Pins, Hand-Sewing Needles; Hooks, Eyes, and Loops; Snap Fasteners and Thimbles. Scovill Manufacturing Company, Waterbury, Conn.
Filed May 10, 1952, Serial No. 629,520. Published June 2, 1953. Class 40.

580,246. Safety Pins, Straight Pins, Veil Pins, Hat Pins, Tidy Pins, Silk Pins, Hand-Sewing Needles; Hooks, Eyes, and Loops; Snap Fasteners and Thimbles. Scovill Manufacturing Company, Waterbury, Conn.
Filed May 10, 1952, Serial No. 629,521. Published June 2, 1953. Class 40.

580,247. Safety Pins, Straight Pins, Hat Pins, Veil Pins, Tidy Pins, Glasshead Pins, T Pins, Button-Attaching Safety Pins, Hooks and Eyes, Snap Fasteners, Hand-Sewing Needles, and Thimbles. Scovill Manufacturing Company, Waterbury, Conn.
Filed May 10, 1952, Serial No. 629,522. Published June 2, 1953. Class 40.

580,248. Safety Pins and Straight Pins. Scovill Manufacturing Company, Waterbury, Conn.
Filed May 10, 1952, Serial No. 629,523. Published May 19, 1953. Class 40.

580,249. Safety Pins and Hooks and Eyes. Scovill Manufacturing Company, Waterbury, Conn.
Filed May 10, 1952, Serial No. 629,524. Published May 19, 1953. Class 40.

580,250. Junior and Misses' Skirts, Slacks, Shorts, Pedal Pushers, Blouses, Waists, Bras, Vests, Culottes, Pinafores, Jackets, and Dresses. Loomtogs, Inc., New York, N. Y.
Filed May 12, 1952, Serial No. 629,576. Published June 16, 1953. Class 39.

580,251. Emulsion Product for Washing Machined Metal Parts. Finger Lakes Chemical Company, Inc., Etna, N. Y.
Filed May 13, 1952, Serial No. 629,605. Published June 9, 1953. Class 52.

580,252. Fabrics of Cotton and of Synthetic Fibers, Including Rayon and Nylon, and Combinations Thereof. Joseph Bancroft & Sons Co., Wilmington, Del.
Filed May 16, 1952, Serial No. 629,762. Published June 30, 1953. Class 42.

580,253. Drinking Glass Coasters, Napkin Holders Having Pockets for Stacks of Paper Napkins, Etc. Bridgeport Moulded Products, Inc., Fairfield, Conn.
Filed May 17, 1952, Serial No. 629,834. Published June 16, 1953. Class 2.

580,254. Women's, Misses', and Girls' Shoes. Franklin Simon & Co. Inc., New York, N. Y.
Filed May 22, 1952, Serial No. 630,097. Published June 16, 1953. Class 39.

580,255. Ladies' and Misses' Coats and Suits. Tobias Klipstein Inc., New York, N. Y.
Filed May 24, 1952, Serial No. 630,193. Published June 23, 1953. Class 39.

580,256. Penicillin Preparation in Powder Form for Combating Organisms Responsible for Infectious Disease Processes. Bristol Laboratories Inc., New York and Syracuse, N. Y.
Filed May 27, 1952, Serial No. 630,312. Published June 23, 1953. Class 18.

580,257. Soot Removing Chemical Preparation. Elraco Engineering Company, Hoboken, N. J.
Filed May 28, 1952, Serial No. 630,401. Published June 23, 1953. Class 52.

580,258. Women's Hosiery. Sanson Hosiery Mills, Inc., Philadelphia, Pa.
Filed May 28, 1952, Serial No. 630,451. Published June 16, 1953. Class 39.

580,259. Men's and Boys' Underwear. Stedman Manufacturing Company, Asheboro, N. C.
Filed May 28, 1952, Serial No. 630,457. Published June 16, 1953. Class 39.

580,260. Hosiery for Women. Julius Kayser & Co., New York, N. Y.
Filed May 31, 1952, Serial No. 630,539. Published June 16, 1953. Class 39.

580,261. Cleansing Liquid for Removing Lipstick From Drinking Glasses and Applicator Therefor. Russell A. Peterson, doing business under the fictitious name Lip-Off Co., Lakeport, Calif.
Filed June 2, 1952, Serial No. 630,614. Published June 23, 1953. Class 52.

580,262. Vehicle Tires. The Firestone Tire & Rubber Company, Akron, Ohio.
Filed June 3, 1952, Serial No. 630,672. Published May 12, 1953. Class 35.

580,263. Silk Piece Goods and Rayon Piece Goods. David Crystal, Inc., New York, N. Y.
Filed June 5, 1952, Serial No. 630,766. Published June 30, 1953. Class 42.

580,264. Lubricating Oil. Bigren Limited, Greenford, England.
Filed June 6, 1952, Serial No. 630,827. Published June 16, 1953. Class 15.

580,265. Parachute Hardware. The Capewell Manufacturing Company, Hartford, Conn.
Filed June 21, 1952, Serial No. 631,543. Published June 23, 1953. Class 13.

580,266. Sweeping Compound. International Sisal Company, Minneapolis, Minn.
Filed June 23, 1952, Serial No. 631,620. Published June 23, 1953. Class 52.

580,267. Partially Printed Forms for Business, Financial, Commercial, and Industrial Use. Karl Klaus, doing business as Karl Klaus Company, Glendale, Calif.
Filed June 23, 1952, Serial No. 631,624. Published May 12, 1953. Class 37.

580,268. Women's and Misses' Suits. Craftshire Sports, Inc., New York, N. Y.
Filed June 24, 1952, Serial No. 631,651. Published June 16, 1953. Class 39.

580,269. Reagent Preparation for the Determination of Chlorides in Body Fluids. Ames Company, Inc., Elkhart, Ind.
Filed July 2, 1952, Serial No. 632,068. Published June 23, 1953. Class 18.

580,270. Welded Galvanized Wire Mesh Fabric Sold in Rolls. The Gilbert & Bennett Mfg. Co., Georgetown, Conn.
Filed July 7, 1952, Serial No. 632,205. Published July 7, 1953. Class 13.

580,271. Soap. Packers Tar Soap, Inc., Mystic, Conn.
Filed July 9, 1952, Serial No. 632,320. Published June 23, 1953. Class 52.

580,272. Coal. Peabody Coal Company, Chicago, Ill.
Filed July 12, 1952, Serial No. 632,487. Published June 23, 1953. Class 1.

580,273. Automobile White Wall Tire Cleaner, Auto Body Washing Compound, Bug Stain Remover, Foam Cleaner for Upholstery, Concrete Floor Cleaner, and Waterless Hand Cleaner. Dickey Manufacturing Company, St. Louis, Mo.
Filed July 14, 1952, Serial No. 632,508. Published June 23, 1953. Class 52.

580,274. Unshelled Peanuts. W. T. Young Foods, Inc., Lexington, Ky.
Filed July 18, 1952, Serial No. 632,766. Published June 30, 1953. Class 46.

580,275. Repair Sleeves and Weld Sleeves, Boiler Nozzles, Weld Necks, Etc. Lenape Hydraulic Pressing & Forging Co., Lenape, Pa.
Filed June 25, 1952, Serial No. 632,816. Published June 30, 1953. Class 13.

580,276. Garter Belts. Beitx Corporation, St. Louis, Mo.
Filed July 23, 1952, Serial No. 632,914. Published Jan. 13, 1953. Class 39.

580,277. Cleaning Solution Adapted To Clean Metallic Surfaces and To Form a Protective Phosphate Coating Therefor. Chester Whitfield Smith, doing business under the name and style of Whitfield Chemical Company, Detroit, Mich.
Filed July 25, 1952, Serial No. 633,085. Published June 23, 1953. Class 52.

580,278. Metal Hose Fittings and Couplings. Stratoflex, Inc., Fort Worth, Tex.
Filed Aug. 1, 1952, Serial No. 633,394. Published June 16, 1953. Class 13.

580,279. Ladies' Sweaters. Remart Sportswear Corporation, New York, N. Y.
Filed Aug. 5, 1952, Serial No. 633,509. Published June 2, 1953. Class 39.

580,280. Shims. Laminated Shim Company, Incorporated, Glenbrook, Conn.
Filed Aug. 6, 1952, Serial No. 633,546. Published June 30, 1953. Class 35.

580,281. Liquid Cementitious Adhesive for Use in the Book Making Arts. Plastic Binding Corporation, Chicago, Ill.
Filed Aug. 8, 1952, Serial No. 633,629. Published June 23, 1953. Class 5.

580,282. Textile Fabrics Made Wholly of Wool and in Substantial Part of Wool Combined With Cotton and/or Synthetic Fibers. Deering, Milliken & Co., Inc., New York, N. Y.
Filed Aug. 14, 1952, Serial No. 633,923. Published June 30, 1953. Class 42.

580,283. Powders in Capsule Form, Constituting a Preparation for the Relief of Ulcers of the Stomach and Duodenum and for the Relief of Excessive Gastro-Intestinal Acidity. Stuart Laboratories, Inc., Hempstead, N. Y.
Filed Aug. 14, 1952, Serial No. 633,950. Published June 23, 1953. Class 18.

580,284. Unit of Medication for Oral Administration Comprising Multiples of Specially Coated Globules, Etc. Smith, Kline & French Laboratories, Philadelphia, Pa.
Filed Aug. 16, 1952, Serial No. 634,057. Published Feb. 17, 1953. Class 18.

580,285. Rust Removing Preparation. Frederick Arnold Best, Watford, England.
Filed Aug. 26, 1952, Serial No. 634,447. Published June 23, 1953. Class 52.

580,286. Soluble Cleaner, Cleanser, and Detergent. The Procter & Gamble Company, Cincinnati, Ohio.
Filed Aug. 27, 1952, Serial No. 634,545. Published June 16, 1953. Class 52.

580,287. Gas Utilization Equipment—Namely, Storage and Utilization Tanks. Skelly Oil Company, Kansas City, Mo.
Filed Aug. 27, 1952, Serial No. 634,553. Published June 16, 1953. Class 2.

580,288. Shirt and Collar Protectors of Cardboard for Use by Manufacturers and Laundries for Holding Shirts in Folded Condition. Sutherland Paper Company, Kalamazoo, Mich.
Filed Sept. 8, 1952, Serial No. 635,003. Published May 12, 1953. Class 37.

580,289. Detergent in Powder Form, Dissolvable in Water, for Use in Cleaning and Sanitising Milking Machines and Utensils in One Operation. Rigo Manufacturing Co., Inc., Nashville, Tenn.
Filed Sept. 10, 1952, Serial No. 635,097. Published June 23, 1953. Class 52.

580,290. Construction Kits Comprising Hinges, Side Runs, Pressure Bars, and Springs, for Changing Conventional Sliding Windows Over to Pivotal and Sliding Windows. Weather-Seal, Inc., Barberton, Ohio.
Filed Sept. 10, 1952, Serial No. 635,107. Published June 30, 1953. Class 13.

580,291. Home Treatment Kits, Containing Medicinal Ingredients for Treating the Scalp and Hair. Anthony Romeo, trading and doing business as Romeo's Hair Clinic, Camden, N. J.
Filed Sept. 16, 1952, Serial No. 635,326. Published June 23, 1953. Class 18.

580,292. Men's and Boys' Suits, Overcoats, Rain-Coats, Vests, Children's Suits, Slip Coats, Trousers, Overalls, Drawers, Top-Coats, Shoes, Underwear, Outer Shirts, and Hats. Harry Myers and Company, Inc., Baltimore, Md.
Filed Sept. 3, 1952, Serial No. 635,568. Published June 16, 1953. Class 39.

580,293. Men's, Women's, Boys', and Girls' Outerwear—Namely, Jackets, Trousers, Sweaters, Caps, Socks, Mitts, Parkas, Warm-Up Coats, and Scarves. Marjorie Benedikter, Inc. Division of North Shore Manufacturing Co., Duluth, Minn.
Filed Sept. 22, 1952, Serial No. 635,578. Published May 26, 1953. Class 39.

580,294. Tape Dispensers for Serving Adhesive Tape, Sold Empty. Better Packages, Incorporated, Shelton, Conn.
Filed Sept. 24, 1952, Serial No. 635,680. Published June 23, 1953. Class 2.

580,295. Wood Encased Pencils. Eagle Pencil Company, New York, N. Y.
Filed Oct. 6, 1952, Serial No. 636,218. Published May 19, 1953. Class 37.

580,296. Cleaners Consisting of Granular Materials Adapted To Be Cascaded Over a Surface, Etc. The Haloid Company, Rochester, N. Y.
Filed Oct. 7, 1952, Serial No. 636,289. Published June 23, 1953. Class 52.

580,297. Door Stop, for a Screen and Door Closer. Oley Products Inc., Inwood, N. Y.
Filed Oct. 7, 1952, Serial No. 636,304. Published June 30, 1953. Class 13.

580,298. Ladies' Shoes Made of Leather, Fabric, Rubber and/or Any Combinations Thereof. Cannon Shoe Company, Baltimore, Md.
Filed Oct. 8, 1952, Serial No. 636,339. Published June 16, 1953. Class 39.

580,299. Ladies' Coats and Suits. City Stores Company, Philadelphia, Pa.
Filed Oct. 8, 1952, Serial No. 636,342. Published June 16, 1953. Class 39.

580,300. Boys' and Men's Shoes. Truitt Brothers, Inc., Belfast, Maine.
Filed Oct. 23, 1952, Serial No. 636,400. Published June 9, 1953. Class 39.

580,301. Synthetic Staple Fiber. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed Oct. 9, 1952, Serial No. 636,414. Published June 23, 1953. Class 1.

580,302. Underwear for Men, Women, and Children. P. H. Hanes Knitting Company, Winston-Salem, N. C.
Filed Oct. 9, 1952, Serial No. 636,417. Published June 9, 1953. Class 39.

580,303. Men's, Women's, and Children's Shoes Made of Leather, Rubber, or Fabrics, and of Combinations of These Materials. Maurice J. Markell, New York, N. Y.
Filed Oct. 10, 1952, Serial No. 636,486. Published June 16, 1953. Class 39.

580,304. Baby Chicks and Hatching Eggs. Featherland Farm Incorporated, Sudbury, Mass.
Filed Oct. 11, 1952, Serial No. 636,518. Published June 23, 1953. Class 1.

580,305. Slippers and Bootees for Men, Women, and Children. Alta Products Corporation, New York, N. Y.
Filed Oct. 16, 1952, Serial No. 636,673. Published June 9, 1953. Class 39.

580,306. Mink Fur Stoles, Mink Fur Capes, Mink Fur Jackets, and Mink Fur Coats. Frishman & Gintel, New York, N. Y.
Filed Oct. 18, 1952, Serial No. 636,847. Published June 16, 1953. Class 39.

580,307. Metal Platters and Serving Trays. Arlington Corporation, St. Paul, Minn.
Filed Oct. 20, 1952, Serial No. 636,872. Published June 16, 1953. Class 13.

580,308. Combs. E. I. du Pont de Nemours and Company, Wilmington, Del.
Filed Oct. 20, 1952, Serial No. 636,885. Published May 12, 1953. Class 40.

580,309. Liquid Cleaner To Remove Rust and Gray Hard Water Deposits From Porcelain Bathtubs, Basins, Sinks, and Toilet Bowls. Stellad Products, Inc., Indianapolis, Ind.
Filed Oct. 2, 1952, Serial No. 636,910. Published June 16, 1953. Class 52.

580,310. Ladies' Outer Garments—Namely, Coats, Suits, Jackets, and Skirts. Hiller Bros. & Hiller, Inc., New York, N. Y.
Filed Oct. 22, 1952, Serial No. 636,982. Published June 16, 1953. Class 39.

580,311. Bobby Pins and Hair Pins. Gaylord Products, Incorporated, Chicago, Ill.
Filed Oct. 25, 1952, Serial No. 637,178. Published May 12, 1953. Class 40.

580,312. Paper Napkins, Facial Tissue, Waxed Paper, Shelf Paper, and Toilet Tissue. Crown Zellerbach Corporation, San Francisco, Calif.
Filed Oct. 28, 1952, Serial No. 637,268. Published May 5, 1953. Class 37.

580,313. Heels and Soles Composed of an Elastomer and a Resin. The Goodyear Tire & Rubber Company, Akron, Ohio.
Filed Oct. 28, 1952, Serial No. 637,273. Published June 16, 1953. Class 39.

580,314. Fountain Pen Nibs. Eberhard Faber Pencil Company, Brooklyn, N. Y.
Filed Oct. 29, 1952, Serial No. 637,305. Published May 5, 1953. Class 37.

580,315. Shoe Polish. Hollywood Shoe Polish, Inc., Richmond Hill, N. Y.
Filed Oct. 30, 1952, Serial No. 637,374. Published June 23, 1953. Class 4.

580,316. Shoe Polish. Hollywood Shoe Polish, Inc., Richmond Hill, N. Y.
Filed Oct. 30, 1952, Serial No. 637,375. Published June 23, 1953. Class 4.

580,317. Germicidal Soap. The Pharma-Craft Corporation, New York, N. Y.
Filed Sept. 19, 1952, Serial No. 637,528. Published June 16, 1953. Class 52.

580,318. Paper Napkins, Paper Towels, Toilet Tissue, Waxed Paper, and Paper Facial Tissues. Sterling Pulp & Paper Company, Eau Clair, Wis.
Filed Nov. 3, 1952, Serial No. 637,553. Published May 12, 1953. Class 37.

580,319. Sets of Hooks and Eyes. Hook-Flex Company, Chicago, Ill., assignor to Hook-Flex Corporation, Chicago, Ill., a corporation of Illinois.
Filed Nov. 4, 1952, Serial No. 637,588. Published May 12, 1953. Class 40.

580,320. Cleansing Tissues and Toilet Tissues. The Rieser Company, Inc., New York, N. Y.
Filed Nov. 4, 1952, Serial No. 637,613. Published May 12, 1953. Class 37.

580,321. Grooved Phonograph Records. Columbia Records Inc., Bridgeport, Conn.
Filed Nov. 6, 1952, Serial No. 637,701. Published June 30, 1953. Class 36.

580,322. Synthetic Resins and Solutions Containing the Same for Bonding, Laminating, and Adhesive Purposes. Reichhold Chemicals, Inc., Detroit, Mich.
Filed Nov. 6, 1952, Serial No. 637,722. Published June 23, 1953. Class 5.

580,323. Phosphorescent or Fluorescent Polymers, Copolymers, Synthetic Plastics and Synthetic Resins, Etc. Irving W. Ruderman, doing business as Larco Nuclear Instrument Company, Palisades Park, N. J.
Filed Nov. 6, 1952, Serial No. 637,725. Published June 30, 1953. Class 6.

580,324. Partitioned Boxes, Cartons, and Cases for Cosmetics and Similar Goods. Oscar F. Igersheim, doing business under the name of Plastic Fabricators, New York, N. Y.
Filed Nov. 13, 1952, Serial No. 637,993. Published June 2, 1953. Class 2.

580,325. Chamois Skins. American Sponge and Chamois Company, Inc., New York, N. Y.
Filed Nov. 14, 1952, Serial No. 638,048. Published June 23, 1953. Class 1.

580,326. Synthetic Resins and Solutions Containing the Same for Bonding, Laminating, and Adhesive Purposes. Reichhold Chemicals, Inc., Detroit, Mich.
Filed Nov. 14, 1952, Serial No. 638,103. Published June 23, 1953. Class 5.

580,327. Coal. Sinclair Coal Company, Kansas City, Mo.
Filed Nov. 17, 1952, Serial No. 638,217. Published June 23, 1953. Class 1.

580,328. Food Products—Namely, Canned Fish. Sun-Pacific Inc., San Diego, Calif.
Filed Nov. 17, 1952, Serial No. 638,223. Published June 30, 1953. Class 46.

580,329. Shampoos. Rayette, Inc., St. Paul, Minn.
Filed Nov. 18, 1952, Serial No. 638,271. Published June 23, 1953. Class 52.

580,330. Ladies' Coats. Petite Miss Co., New York, N. Y.
Filed Nov. 19, 1952, Serial No. 638,311. Published June 16, 1953. Class 39.

580,331. Shoes, More Specifically Ladies' Shoes. The United States Shoe Corporation, Cincinnati, Ohio.
Filed Nov. 19, 1952, Serial No. 638,334. Published June 16, 1953. Class 39.

580,332. Charcoal Briquets. Kingsford Chemical Co., Iron Mountain, Mich.
Filed Nov. 20, 1952, Serial No. 638,367. Published June 23, 1953. Class 1.

580,333. Removable Insoles for Shoes, Formed of Leather, Rubber, and Fabric. M. A. Oberman & Son, St. Louis, Mo.
Filed Nov. 20, 1952, Serial No. 638,371. Published June 16, 1953. Class 39.

580,334. Picture Hanging Brackets or Clips. Evergrip Products Corporation, New York, N. Y.
Filed Nov. 26, 1952, Serial No. 638,641. Published June 30, 1953. Class 18.

580,335. Dressed Turkeys. Wayside Turkey Farms, Prospect, Ohio.
Filed Nov. 26, 1952, Serial No. 638,679. Published June 30, 1953. Class 46.

580,336. Disposable Broiling Pan. Broil-Away Corporation, Venice, Fla.
Filed Nov. 28, 1952, Serial No. 638,686. Published July 7, 1953. Class 13.

580,337. Liquid Core Compound Used in Foundries as a Binder for the Sand. The Buckeye Products Company, Cincinnati, Ohio.
Filed Nov. 28, 1952, Serial No. 638,687. Published June 23, 1953. Class 5.

580,338. Girls' and Misses' Sleeping and Lounging Pajamas, Bath Robes, Lounging Robes, Beach Robes, and Negligees. Geisha Robe Co. Inc., New York, N. Y.
Filed Dec. 3, 1952, Serial No. 638,904. Published June 2, 1953. Class 39.

580,339. Men's Outer Shirts and Pajamas. The Manhattan Shirt Company, New York, N. Y.
Filed Dec. 4, 1952, Serial No. 638,963. Published June 16, 1953. Class 39.

580,340. Adhesive Particularly for Use in Laying Floor and Wall Tile. Kentile, Inc., Brooklyn, N. Y.
Filed Dec. 8, 1952, Serial No. 639,170. Published June 23, 1953. Class 5.

580,341. Wax for Preserving and Polishing Cork and Wood Floors. Kentile, Inc., Brooklyn, N. Y.
Filed Dec. 8, 1952, Serial No. 639,171. Published June 23, 1953. Class 4.

580,342. Adhesive for Use in Installing Floor Tile. Kentile, Inc., Brooklyn, N. Y.
Filed Dec. 8, 1952, Serial No. 639,172. Published June 23, 1953. Class 5.

580,343. Adhesives and Pastes Particularly for Use in Laying Floor and Wall Tile. Kentile, Inc., Brooklyn, N. Y.
Filed Dec. 8, 1952, Serial No. 639,177. Published June 23, 1953. Class 5.

580,344. Liquid Chemical Cleaning Preparation for Rugs and Upholstery Having Incidental Properties, as a Moth Repellant. Sanavene Manufacturing Co., St. Louis, Mo.
Filed Dec. 8, 1952, Serial No. 639,191. Published June 23, 1953. Class 52.

580,345. Clothing for Men, Women, and Children—Namely, Pants. Cavu Clothes, Inc., Cincinnati, Ohio.
Filed Dec. 10, 1952, Serial No. 639,263. Published June 16, 1953. Class 39.

580,346. Medicinal Preparation of Cyclopentamine and Aludrine Compound Used in the Treatment of Asthma and Various Other Forms of Spastic Bronchoconstriction. Eli Lilly and Company, Indianapolis, Ind.
Filed Dec. 11, 1952, Serial No. 639,318. Published June 23, 1953. Class 18.

580,347. Compounds for Degreasing Metal Parts—Namely, Trichlorethylene. Phillips Manufacturing Company, Chicago, Ill.
Filed Dec. 12, 1952, Serial No. 639,389. Published June 23, 1953. Class 52.

580,348. Penicillin Preparation for Oral Administration. Chas. Pfizer & Co., Inc., Brooklyn, N. Y.
Filed Dec. 13, 1952, Serial No. 639,440. Published June 16, 1953. Class 18.

580,349. Grooved Phonograph Records. The Gramophone Company Limited, Hayes, Middlesex, England.
Filed Dec. 15, 1952, Serial No. 639,470. Published June 30, 1953. Class 36.

580,350. Men's, Women's, Boys', Girls', Children's and Infants' Overcoats, Topcoats, Etc. Continental Mills, Inc., Philadelphia, Pa.
Filed Nov. 8, 1952, Serial No. 639,530. Published June 16, 1953. Class 39.

580,351. Raisin Juice. Sun Maid Raisin Growers of California, Fresno, Calif.
Filed Dec. 16, 1952, Serial No. 639,594. Published June 30, 1953. Class 46.

580,352. Wallets and Purses. Bernard Cahn Co., Inc., New York, N. Y.
Filed Dec. 17, 1952, Serial No. 639,618. Published June 16, 1953. Class 3.

580,353. Shoe Soles, Normally Sold Affixed to Shoes. Sears, Roebuck and Co., Chicago, Ill.
Filed Dec. 20, 1952, Serial No. 639,840. Published June 16, 1953. Class 39.

580,354. Men's Suits, Sport Coats, Topcoats, Overcoats, and Separate Trousers. Michaels, Stern & Company, Incorporated, Rochester, N. Y.
Filed Dec. 23, 1952, Serial No. 639,948. Published June 16, 1953. Class 39.

580,355. WITHDRAWN.

580,356. Facial Tissue Type Paper Napkins. Tested Papers of America, Inc., Chicago, Ill.
Filed Dec. 23, 1952, Serial No. 639,965. Published June 23, 1953. Class 37.

580,357. Line Metal Pipe and Tubing. Louis Greenspon, Inc., Clayton, Mo.
Filed Dec. 29, 1952, Serial No. 640,119. Published June 16, 1953. Class 13.

580,358. Shoes for Men, Women, and Children. Commonwealth Shoe and Leather Company, Whitman, Mass.
Filed Dec. 31, 1952, Serial No. 640,194. Published June 16, 1953. Class 39.

580,359. Writing Paper—Namely, Ledger and Onion Skin Paper, and for Wedding Paper. Fox River Paper Corporation, Appleton, Wis.
Filed Dec. 31, 1952, Serial No. 640,203. Published June 23, 1953. Class 37.

580,360. Knobs for Doors and Drawers. The Stanley Works, New Britain, Conn.
Filed Dec. 31, 1952, Serial No. 640,232. Published June 16, 1953. Class 13.

580,361. Petroleum for Treating Equipment To Prevent Scale and Corrosion. Edward N. Jones, doing business as Southern Oil Chemical Company, Pettus, Tex.
Filed Jan. 6, 1953, Serial No. 640,403. Published June 30, 1953. Class 6.

580,362. Pipe Made From Plastic Material and Pipe Fittings Made From Plastic Material and Comprising Elbows, Adapters, and Ts. Anesite Company, Chicago, Ill.
Filed Jan. 7, 1953, Serial No. 640,422. Published July 7, 1953. Class 13.

580,363. Hypnotic Tablet. The Superior Pharmacal Co., Dayton, Ohio.
Filed Jan. 9, 1953, Serial No. 640,590. Published June 23, 1953. Class 18.

580,364. Non-Consumable Resistance Welding Tips or Electrodes, Spot Welding Tips, Seam Welding Wheels, Bushings for Seam Welder Shafts, Welding Dies, and Welding Electrode or Tip Holders. Weiger Weed & Company, Detroit, Mich.
Filed Jan. 9, 1953, Serial No. 640,592. Published June 30, 1953. Class 21.

580,365. Electrodes for Heating and Welding Purposes. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y.
Filed Jan. 14, 1953, Serial No. 640,732. Published June 30, 1953. Class 21.

580,366. Hose Clamps. Wittek Manufacturing Co., Chicago, Ill.
Filed Jan. 19, 1953, Serial No. 640,990. Published July 7, 1953. Class 13.

580,367. Fire Extinguisher Brackets. Silent Sentry, Inc., Hollywood, Calif.
Filed Jan. 21, 1953, Serial No. 641,095. Published July 7, 1953. Class 13.

580,368. Coffee Makers. West Bend Aluminum Co., West Bend, Wis.
Filed Jan. 22, 1953, Serial No. 641,160. Published July 7, 1953. Class 13.

580,369. Fabrics of Cotton and of Synthetic Fibers, Including Rayon and Nylon, and Combinations Thereof. Joseph Bancroft & Sons Co., Wilmington, Del.
Filed Jan. 23, 1953, Serial No. 641,163. Published June 30, 1953. Class 42.

580,370. Rubber Adhesive. Minnesota Mining and Manufacturing Company, St. Paul, Minn.
Filed Jan. 23, 1953, Serial No. 641,197. Published June 23, 1953. Class 5.

580,371. Bedspreads. Normandie Bedspread Co., New York, N. Y.
Filed Jan. 23, 1953, Serial No. 641,202. Published June 30, 1953. Class 42.

580,372. Fabrics, in the Piece and in Cut Lengths, Wholly of Worsted and Worsted Blended With Synthetic Fibers. Collins & Aikman Corporation, Philadelphia, Pa.
Filed Jan. 26, 1953, Serial No. 641,274. Published June 30, 1953. Class 42.

580,373. Woolen Piece Goods. Botany Mills, Inc., Passaic, N. J.
Filed Jan. 28, 1953, Serial No. 641,428. Published June 30, 1953. Class 42.

580,374. Textile Fabrics of Cotton, Wool, and Synthetic Fibers. U. S. Fabrics, Inc., New York, N. Y.
Filed Jan. 29, 1953, Serial No. 641,530. Published June 30, 1953. Class 42.

580,375. Textile Fabrics of Cotton, Wool, and Synthetic Fibers. U. S. Fabrics, Inc., New York, N. Y.
Filed Jan. 29, 1953, Serial No. 641,531. Published June 30, 1953. Class 42.

580,376. Adhesive Preparation for Bonding Two or More Surfaces Together. Larsen Products Corporation, Bethesda, Md.
Filed Jan. 30, 1953, Serial No. 641,556. Published June 23, 1953. Class 5.

580,377. Medical Preparation—Namely, a Powder Useful as a Blood Solvent and Detergent in Hospital Practice. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn.
Filed Jan. 30, 1953, Serial No. 641,566. Published June 23, 1953. Class 52.

580,378. Frozen and Canned Fruits, Canned Vegetables, and Frozen and Canned Berries. Michigan Fruit Canners, Inc., Benton Harbor, Mich.
Filed Feb. 4, 1953, Serial No. 641,735. Published June 30, 1953. Class 46.

580,379. Tweezers for Toilet Use. Trix Distributors, Inc., Seattle, Wash.
Filed Feb. 9, 1953, Serial No. 641,993. Published June 30, 1953. Class 44.

580,380. Coarse-Finish Twine. Hanover Cordage Company, Hanover, Pa.
Filed Jan. 19, 1953, Serial No. 642,106. Published June 23, 1953. Class 7.

580,381. Hemp Twine. Hanover Cordage Company, Hanover, Pa.
Filed Jan. 19, 1953, Serial No. 642,107. Published June 23, 1953. Class 7.

580,382. White-Fibre Twines. Hanover Cordage Company, Hanover, Pa.
Filed Jan. 19, 1953, Serial No. 642,108. Published June 23, 1953. Class 7.

580,383. White-Fibre Twine. Hanover Cordage Company, Hanover, Pa.
Filed Jan. 19, 1953, Serial No. 642,109. Published June 23, 1953. Class 7.

580,384. Twine. Hanover Cordage Company, Hanover, Pa.
Filed Jan. 19, 1953, Serial No. 642,110. Published June 23, 1953. Class 7.

580,385. Tube Rope, Wall-Paper Twine, Jute Wrapping Twine, and Jute Millers' Twine. Hanover Cordage Company, Hanover, Pa.
Filed Jan. 19, 1953, Serial No. 642,111. Published June 23, 1953. Class 7.

580,386. Superfine Sulphur. Mathieson Chemical Corporation, Baltimore, Md.
Filed Mar. 23, 1953, Serial No. 644,044. Published June 30, 1953. Class 6.

580,387. Frozen Cheese Spreads. Calumet Cheese Co., Inc., Hilbert, Wis.
Filed Apr. 15, 1953, Serial No. 645,287. Published June 30, 1953. Class 46.

Certification Mark

580,388. Cotton, Rayon, Linen, and Silk Piece Goods, and Sheets, Pillow Cases, Mattress Pads, Mattress Covers, Bed Spreads, Curtains, and Towels Made of Said Piece Goods. Independent Wholesale Dry Goods Association, Inc., New York, N. Y.
Filed Oct. 13, 1951, Serial No. 619,972. Published June 30, 1953. Class 42.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

580,389. (Class 12. Construction Materials.) Jerry O'Mahony Incorporated, Elizabeth, N. J. Original filed, act of 1946, Principal Register, Aug. 26, 1948; amended to application, Supplemental Register, Nov. 19, 1951, Serial No. 566,273.

IN OUR LINE WE LEAD THE WORLD

For Roadside Diners or Lunchwagons, for Use as Lunchrooms or Restaurants, and Adapted To Be Placed Upon a Supporting Foundation or Other Structure in Such Manner as To Be Readily Removable Therefrom.
Claims use since 1913.

580,390. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) American Safety Razor Corporation, Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Dec. 11, 1948; amended to application, Supplemental Register, July 6, 1953, Serial No. 570,354.

PUSH-PAK

For Safety Razor Blades.
Claims use since on or about Nov. 11, 1948.

580,391. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) RCS Tool Sales Corporation, Joliet, Ill. Original filed, act of 1946, Principal Register, Nov. 29, 1949; amended to application, Supplemental Register, Jan. 23, 1953, Serial No. 588,517.

SUPER SAW

Applicant disclaims the word "Saw" separate and apart from the mark as shown.
For Reciprocating Saw Attachment for Power Drills and Blades Therefor.
Claims use since Aug. 19, 1949.

580,392. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Jackson Perry Robertson, doing business as Multi-Purpose Manufacturing Co., Columbus, Miss. Original filed, act of 1946, Principal Register, May 18, 1950; amended to application, Supplemental Register, May 1, 1951, Serial No. 597,699.

MULTI-PURPOSE

For Lift-Type Disc Harrows for Attachment to Tractors for Cultivation of the Earth in Agricultural Operations.
Claims use since Sept. 1, 1948.

580,393. (Class 39. Clothing.) Van Raalte Company, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, July 13, 1950; amended to application, Supplemental Register, Sept. 10, 1952, Serial No. 600,633.

ACCENT SEAM

For Women's Hosiery.
Claims use since June 1, 1950.

580,394. (Class 22. Games, Toys, and Sporting Goods.) George F. Cook, doing business as Rocky Mountain Supply, Englewood, Colo. Filed Oct. 6, 1950, Serial No. 604,519.

SURE-CATCH

For Fishing Tackle—Namely, Rods, Poles, Reels, Lines, Leaders, Sinkers, Bobbers, Hooks and Artificial Lures, and Fish Baits—Namely, Prepared Baits, Mixed Baits, Artificial Baits, and Prepared Fish Eggs for Bait.
Claims use since Sept. 15, 1947.

580,395. (Class 21. Electrical Apparatus, Machines, and Supplies.) The Louis Allis Company, Milwaukee, Wis. Original filed, act of 1946, Principal Register, Jan. 26, 1951; amended to application, Supplemental Register, Aug. 4, 1952, Serial No. 609,270.

SELECT-A-SPEDE

For All Electric Adjustable Speed Drive Which Consists of a Power Unit Including a Motor Generator Set for Converting A. C. Into D. C., a Push Button Type Operator's Control Station, and a D. C. Driving Motor.
Claims use since July 27, 1950.

580,396. (Class 18. Medicines and Pharmaceutical Preparations.) Coastal Laboratories, Inc., South Toms River, N. J. Original filed, act of 1946, Principal Register, Nov. 19, 1951; amended to application, Supplemental Register, Sept. 5, 1952, Serial No. 621,389.

SUPER-TONIC

For Pharmaceutical Preparations Intended as a Supplement to Poultry Feeds Containing Vitamin A and Vitamin D.
Claims use since August 1951.

580,397. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Consolidated Sewing Machine & Supply Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 14, 1951; amended to application, Supplemental Register, July 24, 1953, Serial No. 622,480.

Evernu

Applicant claims ownership of Registration No. 255,639.
For Knives Made of Base Metal.
Claims use since January 1928.

580,398. (Class 21. Electrical Apparatus, Machines, and Supplies.) General Electric Company, Schenectady, N. Y. Original filed, act of 1946, Principal Register, Dec. 26, 1951; amended to application, Supplemental Register, July 24, 1953, Serial No. 622,818.

LEVELOCK

For Switch Boxes.
Claims use since Nov. 29, 1951.

580,399. (Class 51. Cosmetics and Toilet Preparations.) "4711" Limited, Beverly Hills, Calif., assignee of Lee Pharmacal Co. Original filed, act of 1946, Principal Register, Mar. 3, 1952; amended to application, Supplemental Register, Feb. 16, 1953, Serial No. 625,857.

SOF-SET

For Lacquer Preparation Dispensed in a Mist-Like Spray and Used for the Hair.
Claims use since Jan. 29, 1952.

580,400. (Class 29. Brooms, Brushes, and Dusters.) Edward E. Gurian & Co., Inc., Chicago, Ill., assignee of Edward E. Gurian & Co. Original filed, act of 1946, Principal Register, Mar. 12, 1952; amended to application, Supplemental Register, May 7, 1953, Serial No. 626,324.

KLEEN-ALL

For Fountain Brushes Adapted for Attachment to a Water Hose for Use in Washing Cars, Trucks, Walls, Floors, Windows, Screens, and the Like.
Claims use since Feb. 20, 1952.

580,401. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Markwell Manufacturing Company, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 8, 1952; amended to application, Supplemental Register, Mar. 26, 1953, Serial No. 627,759.

Micro-perfect

For Staples Used for Fastening Papers, Cardboard, Fabrics, and Light Gauge Metal Together, Also for Fastening Papers, Cardboard, Fabrics, and Light Gauge Metal on to Wood.
Claims use since Mar. 21, 1952.

580,402. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Krome Company, Inc., Reading, Pa. Original filed, act of 1946, Principal Register, June 25, 1952; amended to application, Supplemental Register, Feb. 26, 1953, Serial No. 631,741.

NU-THRED

For Thread Files or Chasers.
Claims use since on or about July 1, 1946.

580,403. (Class 22. Games, Toys, and Sporting Goods.) Brian Specialties, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, July 1, 1952; amended to application, Supplemental Register, July 10, 1953, Serial No. 632,013.

BLO-A-GLO

For Plastic Compositions for Producing Toy Balloons.
Claims use since Apr. 15, 1952.

580,404. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Gordon Johnson Company, Kansas City, Mo. Original filed, act of 1946, Principal Register, July 16, 1952; amended to application, Supplemental Register, June 3, 1953, Serial No. 632,617.

DRI LIFT

For Chilling Tanks Equipped With Roller Screen Lift for Elevating Chilled, Dressed Poultry and Meat Toward the Open Top Thereof for Ready Access and Separation From Chipped Ice Therein.
Claims use since June 1949.

580,405. (Class 21. Electrical Apparatus, Machines, and Supplies.) Bulova Watch Company, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, July 17, 1952; amended to application, Supplemental Register, June 29, 1953, Serial No. 632,657.

Wake-Alarm

For Electrically Sensitive Speaker Device for Connection to Radios.
Claims use since May 27, 1952.

580,406. (Class 50. Merchandise Not Otherwise Classified.) Margaret D. Bynum, Muskogee, Okla. Original filed, act of 1946, Principal Register, July 18, 1952; amended to application, Supplemental Register, June 23, 1953, Serial No. 632,714.

TOT-SWAT

For Paddle Used for Disciplining Children.
Claims use since June 1, 1952.

580,407. (Class 50. Merchandise Not Otherwise Classified.) The Carlife Guaranty Company, Detroit, Mich. Filed Aug. 4, 1952, Serial No. 633,446.

THE DAWN
OF A NEW DAY IN SERVICE

For Automobile Service Progress Record Board Adapted To Support a Plurality of Tags Individual to the Automobiles Serviced in Columns Under the Days of the Month To Indicate the Approximate Period Since the Last Servicing of the Automobile.
Claims use since September 1936.

580,408. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Paul L. Adams, doing business as Toughbuoy Co., Dubuque, Iowa. Original filed, act of 1946, Principal Register, Sept. 2, 1952; amended to application, Supplemental Register, July 17, 1953, Serial No. 634,723.

Polycell

For Floats for Valves in Water Closet Installations.
Claims use since July 1, 1952.

580,409. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) L. A. Young Spring & Wire Corporation, San Leandro, Calif. Filed July 24, 1953, Serial No. 650,238.

FENCIT

For Prefabricated Metal Wire Fence Sections.
Claims use since June 8, 1950.

Service Marks

580,410. (Class 107. Education and Entertainment.) Marion Forbes, Virginia Beach, Va. Original filed, act of 1946, Principal Register, Jan. 11, 1952; amended to application, Supplemental Register, Nov. 24, 1952, Serial No. 623,457.

Teen Topics

For Entertainment Service Rendered Through the Medium of a Television Program Consisting of Discussions of and Questions and Answers Relating to Teen-Age Problems.
Claims use since Oct. 1, 1951.

580,411. (Class 101. Advertising and Business.) M. L. Collier & Co., Atlanta, Ga. Original filed, act of 1946, Principal Register, Dec. 20, 1952; amended to application, Supplemental Register, July 1, 1953, Serial No. 639,809.

Traveling Office

For Bookkeeping Service.
Claims use since on or about July 1, 1944.

TRADE-MARK REGISTRATIONS RENEWED

91,886. MAC-IT. Registered June 3, 1913. Mac-It Parts Company, Lancaster, Pa., a corporation of Pennsylvania. Re-renewed June 3, 1953. Screws. Class 13.

92,070. TRAGASOL. Registered June 17, 1913. The Gum Tragasol Supply Company Limited. Re-renewed June 17, 1953, to Tragasol Products Limited, Hooten, England, a company organized under the laws of Great Britain. Mucilaginous Products of Vegetable Origin for Sizing, Dressing, and Finishing Fabrics and Materials. Class 1.

92,071. TRAGASOL. Registered June 17, 1913. The Gum Tragasol Supply Company Limited. Re-renewed June 17, 1953, to Tragasol Products Limited, Hooten, England, a company organized under the laws of Great Britain. Leather Dressings and Polishes. Class 4.

92,272. "SHERWOOD" ETC. AND REPRESENTATION OF BARREL. Registered June 24, 1913. The Sherwood Distilling Co., Baltimore, Md. Re-renewed June 24, 1953, to The Sherwood Distilling Co., Westminster, Md., a corporation of Maryland. Straight Rye Whiskey. Class 49.

92,273. "SHERWOOD" ETC. AND REPRESENTATION OF BARREL. Registered June 24, 1913. The Sherwood Distilling Co., Baltimore, Md. Re-renewed June 24, 1953, to The Sherwood Distilling Co., Westminster, Md., a corporation of Maryland. Straight Rye Whiskey. Class 49.

92,316. ROTAREX. Registered July 1, 1913. The Braun Corporation. Re-renewed July 1, 1953, to Braun Corporation, Los Angeles, Calif., a corporation of California. Centrifugal Extractors. Class 23.

92,376. VIGORON. Registered July 1, 1913. The Sydney Ross Co., New York, N. Y., a corporation of New Jersey. Re-renewed July 1, 1953. Tonic Medicinal Preparation for Anemia, Neurasthenia, Chlorosis, Etc. Class 18.

93,421. BRANDT. Registered Sept. 16, 1913. Brandt Cashier Company, Chicago, Ill. Re-renewed Sept. 16, 1953, to Brandt Automatic Cashier Company, Watertown, Wis., a corporation of Wisconsin. Money-Changers. Class 26.

93,464. WATERLOO. Registered Sept. 16, 1913. The Rath Packing Company, Waterloo, Iowa, a corporation of Iowa. Re-renewed Sept. 16, 1953. Bacon. Class 46.

93,495. CEDAR VALLEY. Registered Sept. 16, 1913. The Rath Packing Company, Waterloo, Iowa, a corporation of Iowa. Re-renewed Sept. 16, 1953. Hams, Skinned Hams, Bacon, and Lard. Class 46.

94,189. SPARTANA. Registered Nov. 11, 1913. The Marietta Paint & Color Co., Marietta, Ohio. Re-renewed Nov. 11, 1953, to American-Marietta Company, Chicago, Ill., a corporation of Illinois. Varnish Stain. Class 16.

94,480. HOT SHOT. Registered Dec. 9, 1913. National Carbon Company, Cleveland, Ohio. Re-renewed Dec. 9, 1953, to Union Carbide and Carbon Corporation, New York, N. Y., a corporation of New York. Dry Cells. Class 21.

300,921. "CENTURY" AND DESIGN. Registered Feb. 14, 1933. Century Lighting Equipment, Inc. Renewed Feb. 14, 1953, to Century Lighting, Inc., New York, N. Y., a corporation of New York. Electric Lighting Equipment for Theatre and Stage Use, for Outdoor Areas, Merchandise Display, Etc. Class 21.

302,192. MONA LISA. Registered Apr. 4, 1933. Gold Maid Hosiery Mills, Inc., Chicago, Ill. Renewed Apr. 4, 1953, to Mona Lisa Foundations, Inc., Allentown, Pa., a corporation of New York. Hosiery. Class 39.

303,533. NEUTROL. Registered May 30, 1933. Filtrol Company of California. Renewed May 30, 1953, to Filtrol Corporation, Los Angeles, Calif., a corporation of Delaware. Chemically-Treated Colloidal Clay, Adapted for Use as a Decolorizing, Bleaching, Filtering, Purifying, and Absorbing Medium. Class 6.

304,074. RETROL. Registered June 20, 1933. Filtrol Company of California. Renewed June 20, 1953, to Filtrol Corporation, Los Angeles, Calif., a corporation of Delaware. Chemically Treated Colloidal Clay, Adapted for Use as a Decolorizing, Bleaching, Filtering, Purifying, and Absorbing Medium. Class 6.

304,384. REPRESENTATION OF DESIGN LINED FOR RED. Registered July 4, 1933. Wm. Wrigley Jr. Company, Chicago, Ill., a corporation of Delaware. Renewed July 4, 1953. Chewing Gum. Class 46.

304,561. AKROMATS. Registered July 11, 1933. The Buxbaum Company, Akron, Ohio. Renewed July 11, 1953, to The Buxbaum Company, Canton, Ohio, a corporation of Ohio. Floor Coverings and Mats, Made of a Combination of Rubber and Textile Material. Class 50.

304,848. "GILBEY'S" ETC. AND DESIGN. Registered July 18, 1933. W. & A. Gilbey Limited, London, England. Renewed July 18, 1953, to W. & A. Gilbey, Ltd., New York, N. Y., a corporation of Delaware. Whisky, Brandy, and Other Potable Distilled Liquors. Class 49.

304,851. "SPEY ROYAL" ETC. AND DESIGN. Registered July 18, 1933. W. & A. Gilbey Limited, London, England. Renewed July 18, 1953, to National Distillers Products Corporation, New York, N. Y., a corporation of Virginia. Whisky. Class 49.

304,868. THE ABSENT MINDED PROFESSOR. Registered July 18, 1933. Fontaine Fox, Manhasset, N. Y. Renewed July 18, 1953, to Fontaine Fox, Greenwich, Conn. Series of Cartoons. Class 38.

304,980. B. V. D. Registered July 25, 1933. The B. V. D. Company, Inc., Baltimore, Md. Renewed July 25, 1953, to The B. V. D. Company, Inc., New York, N. Y., a corporation of Delaware. Underwear of Woven and Textile Fabrics—Namely, Shirts, Drawers, and Union Suits; Etc. Class 39.

305,056. NUMOSO. Registered July 25, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed July 25, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Lubricating Oils. Class 15.

305,234. CLIMAX. Registered Aug. 8, 1933. Landers, Frary & Clark, New Britain, Conn., a corporation of Connecticut. Renewed Aug. 8, 1953. Food Choppers, Cylindrical Food Choppers, Rotary Food Choppers, Etc. Class 23.

305,422. CYLOTTE. Registered Aug. 15, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed Aug. 15, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Lubricating Oils. Class 15.

305,423. CYLANTO. Registered Aug. 15, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed Aug. 15, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Lubricating Oils. Class 15.

305,424. CYLESSO. Registered Aug. 15, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed Aug. 15, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Lubricating Oils. Class 15.

305,425. FIRMAX. Registered Aug. 15, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed Aug. 15, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Lubricating Oils. Class 15.

305,426. COBLAX. Registered Aug. 15, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed Aug. 15, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Lubricating Oils. Class 15.

305,427. CANTONA. Registered Aug. 15, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed Aug. 15, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Lubricating Oils. Class 15.

305,428. VALESSO. Registered Aug. 15, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed Aug. 15, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Lubricating Oils. Class 15.

305,436. ESSTIC. Registered Aug. 15, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed Aug. 15, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Lubricating Oils. Class 15.

305,437. CYLMAR. Registered Aug. 15, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed Aug. 15, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Lubricating Oils. Class 15.

305,438. TERESSO. Registered Aug. 15, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed Aug. 15, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Lubricating Oils. Class 15.

305,636. MISTOL. Registered Aug. 22, 1933. Stanco Incorporated. Renewed Aug. 22, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Preparation for the Treatment of the Respiratory Tract, Muscles, Limbs, and for Use as an External Body Rub. Class 18.

305,908. ZEROKOTE. Registered Aug. 29, 1933. Johns-Manville Corporation, New York, N. Y., a corporation of New York. Renewed Aug. 29, 1953. Asphaltic Emulsion for Use as a Protective Coating, Waterproofing, and Other Industrial Uses. Class 16.

305,966. GARVEY. Registered Aug. 29, 1933. Messrs. Sucesores De Garvey, S. A. Renewed Aug. 29, 1953, to Garvey S. A., Jeres de la Frontera, Spain, a corporation organized under the laws of Spain. Wines. Class 47.

306,182. ESSOHEAT. Registered Sept. 12, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed Sept. 12, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Fuel Oils. Class 15.

306,428. INSTANTA. Registered Sept. 19, 1933. Taylor Instrument Companies, Rochester, N. Y., a corporation of New York. Renewed Sept. 19, 1953. Thermometers. Class 26.

306,693. REDHEAD. Registered Sept. 26, 1933. Elizabeth Arden, Inc. Renewed Sept. 26, 1953, to Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Lipsticks and Rouge. Class 51.

306,954. ESSOBURNER. Registered Oct. 10, 1933. Gilbert & Barker Manufacturing Company, West Springfield, Mass. Renewed Oct. 10, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Oil Burners. Class 34.

307,108. ESSOBURNER. Registered Oct. 17, 1933. Gilbert & Barker Manufacturing Company, West Springfield, Mass. Renewed Oct. 17, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Electric Motors, Thermostatically-Controlled Electrical Switches, Transformers, Etc. Class 21.

307,363. "BOULESTIN" ETC. AND DESIGN. Registered Oct. 24, 1933. Boulestin & Co., Cognac, France, a firm of France. Renewed Oct. 24, 1953. Brandy. Class 49.

307,849. MARMAX. Registered Nov. 7, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed Nov. 7, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Lubricating Oils. Class 15

307,850. MENTOR. Registered Nov. 7, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed Nov. 7, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Lubricating Oils. Class 15.

307,851. NURAY. Registered Nov. 7, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed Nov. 7, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Lubricating Oils. Class 15.

307,883. NORVA. Registered Nov. 7, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed Nov. 7, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Lubricating Oils. Class 15.

307,884. CORAY. Registered Nov. 7, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed Nov. 7, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Lubricating Oils. Class 15.

307,885. TELURA. Registered Nov. 7, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed Nov. 7, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Lubricating Oils. Class 15.

307,886. ZERICE. Registered Nov. 7, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed Nov. 7, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Lubricating Oils. Class 15.

307,887. NUTO. Registered Nov. 7, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed Nov. 7, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Lubricating Oils. Class 15.

307,919. ESSOMARINE. Registered Nov. 14, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed Nov. 14, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Lubricating Oils. Class 15.

307,920. ESSOLEUM. Registered Nov. 14, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed Nov. 14, 1953, to Esso Standard Oil Company, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Lubricating Greases. Class 15.

308,300. "LEOPARD" AND REPRESENTATION OF LEOPARD. Registered Nov. 28, 1933. Threads, Incorporated, Gastonia and Arkray Village, N. C. Renewed Nov. 28, 1953, to Threads, Incorporated, Gastonia, N. C., a corporation of North Carolina. Sewing Threads. Class 43.

308,776. ATROK. Registered Dec. 19, 1933. Atlas Supply Company, Newark, N. J., a corporation of Delaware. Renewed Dec. 19, 1953. Storage Battery Cases. Class 21.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1906, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 151,754. Registered Feb. 14, 1922. (Classified in Class 46.) Farmers' Commission House, Inc., New York, N. Y., a corporation of New York. Republished by registrant.
The words "Long Island Ducks" are disclaimed apart from the mark as shown.
See this number in Class 46 for goods and mark.
Claims use since June 14, 1921.

Reg. No. 227,440. Registered May 3, 1927. (Classified in Class 51.) Peoples Drug Stores, Inc., Washington, D. C., a corporation of Maryland. Republished by registrant.
See this number in Class 51 for goods and mark.
Claims use since 1905.

CLASS 2

RECEPTACLES

Reg. No. 223,693. Registered Feb. 8, 1927. The Lakewood Fireproof Storage Company, Lakewood-Cleveland, Ohio. Republished by Lakewood Storage, Inc., Lakewood, Ohio, a corporation of Ohio.

"ACROSS THE HALL—ACROSS THE CONTINENT"

For Paper and Burlap Package Wrappings, Paper and Fabric Bags, Crates, Corrugated Pasteboard, and Wooden Boxes and Barrels.
Claims use since June 1, 1923.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 227,440. Registered May 3, 1927. (Classified in Class 51.) Peoples Drug Stores, Inc., Washington, D. C., a corporation of Maryland. Republished by registrant.
See this number in Class 51 for goods and mark.
Claims use since 1905.

Reg. No. 259,542. Registered July 30, 1929. Wilbur-Ellis Company, San Francisco, Calif., a corporation of California. Republished by registrant.

LIGHTHOUSE

For Cod-Liver Oil.
Claims use since Jan. 1, 1929.

Reg. No. 304,783. Registered July 18, 1933. (Classified in Class 51.) Usines de l'Allondon S. A., La Plaine, Switzerland, a corporation organized under the laws of the Confederation of Switzerland. Republished by registrant.
See this number in Class 51 for goods and mark.
Claims use since April 1932.

Reg. No. 373,030. Registered Nov. 21, 1939. Louis M. Goldman, doing business as Lou-Bob Company, Chicago, Ill. Republished by registrant.

PREFERRED

For Denatured Alcohol Used for Anti-Freeze.
Claims use since June 15, 1939.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 227,440. Registered May 3, 1927. (Classified in Class 51.) Peoples Drug Stores, Inc., Washington, D. C., a corporation of Maryland. Republished by registrant.
See this number in Class 51 for goods and mark.
Claims use since 1905.

Reg. No. 290,702. Registered Jan. 12, 1932. Irving A. Edelstein, doing business as London Pharmacal Co., New York, N. Y. Republished by Ethel Malatzky, New York, N. Y.

UBAC

For Ointment for External Use for Ringworm, Eczema, and Other Skin Diseases.
Claims use since May 27, 1931.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Reg. No. 440,116. Registered Aug. 10, 1948. Haskell Manufacturing Company, Inc., Pittsburgh, Pa., a corporation of Pennsylvania. Republished by registrant.

WORK-FLOW

The word "Work" is disclaimed apart from the mark as shown.
For Drafting Tables.
Claims use since Aug. 1, 1945.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Reg. No. 305,534. Registered Aug. 22, 1933. Greenview Manufacturing Company, Chicago, Ill., a corporation of Illinois. Republished by registrant.

ARROW

For Window Cleaners of the Squeegee Type and Parts Thereof—Namely, Handle Sockets, Rubber Wipers, and Frames Therefor.
Claims use since Apr. 14, 1931.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Reg. No. 304,049. Registered June 20, 1933. Curtis Lighting, Inc., Chicago, Ill., a corporation of Illinois. Republished by registrant.

Golden Armor

For Glass Reflectors.
Claims use since on or about June 15, 1931.

CLASS 37

PAPER AND STATIONERY

Reg. No. 59,476. Registered Jan. 8, 1907. Hampshire Paper Company, South Hadley Falls, Mass. Republished by Byron Weston Company, Dalton, Mass., a corporation of Massachusetts.

TITAN BOND

For High-Grade Papers for Use in Writing, Printing, and Engraving.
Claims use since Mar. 31, 1892.

Reg. No. 223,693. Registered Feb. 8, 1927. (Classified in Class 2.) The Lakewood Fireproof Storage Company, Lakewood-Cleveland, Ohio. Republished by Lakewood Storage, Inc., Lakewood, Ohio, a corporation of Ohio. See this number in Class 2 for goods and mark.
Claims use since June 1, 1923.

CLASS 39

CLOTHING

Reg. No. 392,248. Registered Dec. 16, 1941. Leeds Ltd. Coats, Inc., New York, N. Y. Republished by Leeds Ltd. Coats, Inc. (1944), New York, N. Y., a corporation of New York.

Double Action

For Women's, Misses', and Juniors' Coats, Suits, Jackets, Capes, Skirts, Coat and Suit Ensembles, and Suit and Cape Ensembles.
Claims use since Apr. 15, 1940.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 223,693. Registered Feb. 8, 1927. (Classified in Class 2.) The Lakewood Fireproof Storage Company, Lakewood-Cleveland, Ohio. Republished by Lakewood Storage, Inc., Lakewood, Ohio, a corporation of Ohio. See this number in Class 2 for goods and mark.
Claims use since June 1, 1923.

CLASS 43

THREAD AND YARN

Reg. No. 328,673. Registered Oct. 1, 1935. Lily Mills Company, Shelby, N. C., a corporation of North Carolina. Republished by registrant.

Lily L.M.C.

For Cotton Sewing Thread, Crochet and Knitting Yarn.
Claims use since Apr. 27, 1935.

Reg. No. 328,674. Registered Oct. 1, 1935. Lily Mills Company, Shelby, N. C., a corporation of North Carolina. Republished by registrant.

Lily THRIFTY-KNIT

The word "Knit" is disclaimed apart from the mark as shown.
For Crochet and Knitting Cotton Yarn and Tufting Yarn.
Claims use since May 1, 1935.

Reg. No. 328,713. Registered Oct. 1, 1935. Lily Mills Company, Shelby, N. C., a corporation of North Carolina. Republished by registrant.

Lily MIST-TONE

For Crochet and Knitting Cotton Yarn.
Claims use since Apr. 23, 1935.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 151,754. Registered Feb. 14, 1922. Farmers' Commission House, Inc., New York, N. Y., a corporation of New York. Republished by registrant.



The words "Long Island Ducks" are disclaimed apart from the mark as shown.
For Live and Dressed Ducks.
Claims use since June 14, 1921.

Reg. No. 259,979. Registered Aug. 13, 1929. Wilbur-Ellis Company, San Francisco, Calif., a corporation of California. Republished by registrant.

LIGHTHOUSE

For Feeding Products—Namely, Soya Bean Meal, Linseed Meal, Cottonseed Meal, Bone Meal, Meat Meal, Beet Pulp.
Claims use since Sept. 15, 1928.

Reg. No. 266,307. Registered Jan. 14, 1930. Pratt-Low Preserving Company, Santa Clara, Calif., a corporation of California. Republished by registrant.

RAG DOLL

For Canned Fruits and Canned Vegetables.
Claims use since June 29, 1929.

Reg. No. 305,399. Registered Aug. 15, 1933. Joe Lowe Corporation, Brooklyn, N. Y., present address New York, N. Y., a corporation of Delaware. Republished by registrant.

REFRESHO

For Stabilizing Compound for Dough.
Claims use since Dec. 2, 1932.

Reg. No. 306,661. Registered Dec. 12, 1933. Capital Flour Mills, Incorporated, Minneapolis, Minn. Republished by International Milling Company, Minneapolis, Minn., a corporation of Delaware.



MINNESOTA GIRL

For Wheat Flour.
Claims use since Feb. 7, 1933.

Reg. No. 363,790. Registered Jan. 10, 1939. American Pop Corn Company, Sioux City, Iowa, a corporation of Iowa. Republished by registrant.

JOLLY TIME

For Seasoning for Pop Corn and the Like.
Claims use since Jan. 1, 1931.

CLASS 48

MALT BEVERAGES AND LIQUORS

Reg. No. 415,516. Registered Aug. 7, 1945. Horlacher Brewing Company, Allentown, Pa., a corporation of Pennsylvania. Republished by registrant.

SHORT SHORTER

For Beer.
Claims use since Nov. 22, 1944.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 227,440. Registered May 3, 1927. Peoples Drug Stores, Inc., Washington, D. C., a corporation of Maryland. Republished by Registrant.

PEOPLES

For Denatured Alcohol, Dobell's Solution, Zinc Ointment, Zinc-Oxide Powder, Cascara Sagrada, Cold Cream, Castor Oil, Carbolic Acid, Creoterpin Compound, Cloroform Liniment, Camphorated Oil, Crude Carbolic Acid, Ammonia for Household Use, Aqua Ammonia, Ammoniated Mercury Ointment, Aromatic Cascara Sagrada, Tincture of Iodine, Tincture of Arnica, Tincture of Green Soap for Medicinal Purposes, Ammonia for Toilet and Bath Purposes, Bay Rum, Mineral Oil, Witch-Hazel, Glycerin, Hair Oil, Glycerophosphates Compound, Glycerin and Rose Water, Javelle Water, Asafetida, Aspirin, Ferruginous Blands, Calomel and Sodium, Cascara Compound, Extract Cascara Sagrada, Cathartic Compound, Hexamethylenetetramine, Phenacetin and Salol, Rhinitis Tablets, Sodium Salicylate, Strychnine Sulphate, Cod Liver Oil, Phosphate Emulsion of Cod Liver Oil, Basham's Mixture, Peppermint Water, Purified Talcum Powder, Prepared Chalk, Potassium Iodide, Precipitated Sulphur, Precipitated Chalk, Powdered Borax, Powder Potassium Alum, Bathing and Rubbing Alcohol Compound, Benzoinated Glycerin and Rose Water, Belladonna Ointment, Benzine, Bluestone Copper Sulphate Crystals, Boric Acid, Boric-Acid Ointment, Brown Mixture, Brown Mixture and Ammonium Chloride, Rhubarb and Soda Mixture, Oil Citronella, Oil Wintergreen, Zinc-Oxide Ointment, Orris Root, Oxalic Acid, Lime Water, Menthol, Lupulin and Magnesia Compound, Compound Licorice Powder, Lavender Flowers, Chalk and Orris Root, Cream Tartar, Citric Acid, Fennel Seed, Flaxseed, Flaxseed Meal, Flower of Sulphur, Rose Water, Rochelle Salt, Senna Leaves, Senna and Manna, Senna Pods, Soap Liniment, Liquid Soda Mint, Bicarbonate of Soda, Spirit of Camphor, Sulphur Ointment, Sweet Oil, Sweet Spirits of Niter, Sirup Cocilliana Compound, Elixir Lactated Pepsin, Elixir Iron, Quinine, and Strychnine: Essence Almond, Essence Caroid, Essence Peppermint, Essence of Pepsin, Epsom Salt, Insecticide, Compound Buchu Buttons, Glycerin Compound, Resor Nux, Salaxol, Unguentum Nigra, Borated Talcum Powder, Preparation for Care of the Feet, Kidney Plaster, Belladonna Plaster, Belladonna and Capsicum Plaster, Compound Carbolic Salve, Complexion Cream, Iron Peptonate and Nux Compound, Pile Medicine; Beef, Iron and Wine: Tonic for the Blood, Milk of Magnesia, Rubbing Oil, White Pine Cough Sirup, Sore-Throat Remedy, Core and Drawing Salve for Boils and Carbuncles, Mentholated White Pine and Tar Cough Sirup, Stomach Medicine, Compound Catnip and Fennel, Compound Sulphur Salve, Effervescing Lithia Tablets, and Emulsion of Cod Liver Oil With Hypophosphites of Lime and Soda.

Claims use since 1905.

Reg. No. 304,783. Registered July 18, 1933. Usines de l'Allondon S. A., La Plaine, Switzerland, a corporation organized under the laws of the Confederation of Switzerland. Republished by registrant.

GALLICOL

For Artificial and Synthetical Perfumes, Essential Oils.
Claims use since April 1932.

Reg. No. 358,642. Registered July 19, 1938. P. Stephen Harris, doing business as National Cosmetic Sales Co., Kansas City, Mo. Republished by Lucky Tiger Manufacturing Company, Kansas City, Mo., a corporation of Missouri.

Never-Tel

For Perfumed Deodorant.
Claims use since Feb. 21, 1938.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 227,440. Registered May 3, 1927. (Classified in Class 51.) Peoples Drug Stores, Inc., Washington, D. C., a corporation of Maryland. Republished by registrant. See this number in Class 51 for goods and mark.
Claims use since 1905.

REISSUES

SEPTEMBER 22, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

23,713

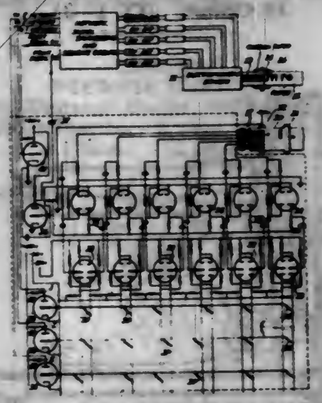
APPARATUS FOR SYNTHESIZING FACSIMILE SIGNALS FROM CODED SIGNALS

Clayton E. Hunt, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Original No. 2,575,617, dated November 13, 1951, Serial No. 176,594, July 29, 1950. Application for reissue December 18, 1952, Serial No. 326,806

6 Claims. (Cl. 178—39)

4. In apparatus for translating a series of coded character signals into a multiple series of electric signals corresponding to a parallel scanning of the coded characters in succession, a plurality of relays arranged equivalent to the columns and rows of a matrix, the relays in each row being connected in parallel between a pair of buses, so that the operation of any relay in a row furnishes a signal to its buses, a network individual to each character for selectively conditioning, when energized, the relays in accordance with the character to which the network is individual, means for operating the conditioned relays in columnar sequence, whereby a series of signals are furnished each pair of buses, and analyzing means responsive to each



coded signal for energizing the network individual to the character represented by the signal.

PLANT PATENTS

GRANTED SEPTEMBER 22, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,217

ROSE PLANT

Roy L. Byrum, Richmond, Ind., assignor to Joseph H. Hill Company, Richmond, Ind., a corporation of Indiana

Application October 3, 1952, Serial No. 312,896

1 Claim. (Cl. 47—61)

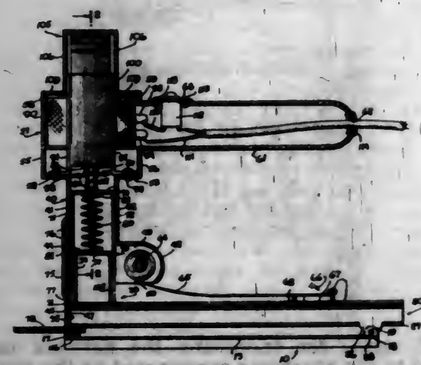
A new and distinct variety of rose plant of the hybrid tea class, substantially as herein shown and described, characterized particularly as to novelty by the strong and compact bush habits of its growth, by the depth, intensity and luminosity of the Rose Red general color tonality of its flowers and the unusual uniformity of color through the different stages of its blooms from tight bud to fully open flower, by the unusual uniformity of color throughout each open bloom, by the resistance of its flowers to burn, fading and other effects of the sun, and by the unusually strong and distinctive tea fragrance of its flowers.

PATENTS

GRANTED SEPTEMBER 22, 1953

GENERAL AND MECHANICAL

2,652,563
STAPLING DEVICE
Joseph Leibowitz, Brooklyn, N. Y.
Application January 9, 1953, Serial No. 330,509
10 Claims. (Cl. 1—3)



1. A stapling device comprising a base, an anvil on one end of the base, an open ended staple magazine overlying said base with one end adjacent to said anvil and pivoted to said base at a point spaced from said anvil, an upstanding housing on said magazine adjacent said one end thereof, means on said housing and combining said magazine to form a staple outlet throat, a plunger in said housing, means mounting said plunger for sliding movement toward and away from said magazine, resilient means urging said plunger away from said magazine, a blade carried by said plunger and movable into said throat for ejecting a staple from said magazine against said anvil, a magnetic core disposed within said housing above said plunger and connected to the latter for movement therewith toward and away from said magazine, and electro-magnetic means for effecting movement of said core toward said magazine against the force of said resilient means, said electro-magnetic means being adapted for connection to a source of electric current.

2,652,564
NAIL-DRIVING MECHANISM
Clinton J. Bacon, Los Angeles, and Samuel J. Kent, Van Nuys, Calif., assignors to Nu-Matic Nailer, Inc., Los Angeles, Calif., a corporation of California
Application September 23, 1950, Serial No. 186,414
3 Claims. (Cl. 1—44.4)

1. In a nail-driving mechanism having a manually movable plunger unit embodying therein an air-reciprocated piston and said unit having a passage in one end which, when open, affords an exit for air that would, when closed, retract said piston to continue reciprocation thereof, the improvement that comprises an extension on said end of the plunger unit and provided with openings for passage of air exiting from said passage, a barrel in which said plunger unit and extension are telescopically fitted, a nail driver element supported by said extension and having a shank extending axially into the barrel, said element being provided with a head operatively aligned and engageable with said piston and extending in a direction toward and adapted to slidingly fit the passage in the plunger unit, the end of said shank being adapted to engage a nail positioned in the path of downward movement thereof to temporarily arrest said movement upon initial telescopic contraction of the plunger unit and barrel and, upon continuance

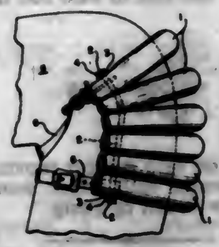


of said telescopic contraction, to enter the head of the nail driver element into the above-mentioned passage to close the same against exit of air and to, thereby, institute air-operated reciprocation of the piston, whereby the piston intermittently propels the nail driver element to drive the above-mentioned nail, and, whereby, at the end of the nail-driving movement of the piston and nail-driver element, the above-mentioned head leaves said passage to open the same for escape of air and stop the nail driving movement of the piston automatically.

2,652,565
KNEEPAD FOR WEAR
Kenneth Basil Withy MacLellan, Maryhill, Glasgow, Scotland, assignor to George MacLellan & Company Limited, Glasgow, Scotland, a corporation of Great Britain and Northern Ireland
Application May 27, 1952, Serial No. 290,138
In Great Britain June 22, 1951
1 Claim. (Cl. 2—24)

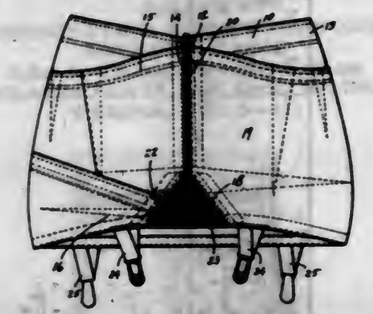
A knee pad for wear comprising a row of laterally spaced independent tubes of rubber disposed in side by side relationship and curved approximately in the form of arcs to constitute a synclastically curved arch, stiff connecting elements

respectively penetrating said tubes transversely near the ends of said tubes, and straps for se-



curing the pad to the wearer connected to the end portions of said connecting elements.

2,652,566
FOUNDATION GARMENT
Lena O. Allen, Marion, Ind.
Application May 12, 1951, Serial No. 225,980
3 Claims. (Cl. 2—39)



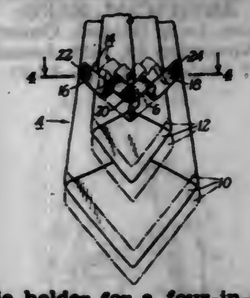
1. A foundation garment comprising a waistband, and a pair of oppositely extending auxiliary bands superimposed over said waistband, each auxiliary band being comparatively wide at one end and gradually diminishing in width towards its other end, each of said auxiliary bands being connected at its wider end to the front of said waistband and extending diagonally downwardly from one side thereof to the opposite side, the narrower ends of each of said auxiliary bands being secured to an adjacent portion of the other auxiliary band.

2,652,567
MEANS FOR ATTACHING STORM SHOES TO GARMENTS
Helen Fisher, Chicago, Ill.
Application November 23, 1951, Serial No. 257,684
4 Claims. (Cl. 2—93)



1. Attaching means for removably attaching overshoes to a coat to prevent loss of the said overshoes when not worn and further to prevent soiling the said coat by the said overshoes, comprising attaching tab means secured to the inner portion of the said coat, the said attaching tab means being provided with button means, a clip element removably secured to the said button means, a supporter element made of elastic material adjustably secured to the said clip element and terminating in two supporting legs, and clamp elements secured to the termini of each of the said supporting legs, the said supporter element normally extending to a position above the lower edge of the said to remain concealed when the said coat is worn, the said clamp elements extending beyond the said lower edge when the said overshoes are attached thereto when the said coat is hung on a clothes hanger.

2,652,568
NECKTIE HOLDER
Marzia Whitman Bagier, Hollywood, Calif.
Application November 12, 1949, Serial No. 126,728
1 Claim. (Cl. 2—145)

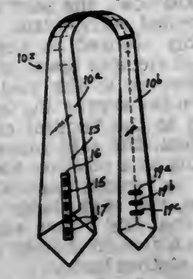


A necktie holder for a four-in-hand necktie which is attached to the underside of the relatively wide end of the necktie adjacent the free end thereof, which free end overlies the other end of the necktie when the necktie is in use, said holder comprising a pair of substantially identical arm portions of fabric which have the same physical characteristics as the fabric of the necktie, each of said arm portions being an elongated flat member having its side edges substantially parallel and with one end sewed to the necktie adjacent the edge thereof and with the other end being substantially at the center line of the necktie, said other ends of said arm portions being free and interconnected only adjacent the respective edges of said arm portions with said free ends terminating in edges which mate to form a buttonhole between said free ends and between the zones of interconnection, said arms being adapted to lie flat and having said free ends at substantially 45° angles whereby said arm portions form substantially a right angle with the arm portions extending upwardly and diverging from said buttonhole to the respective edges of the necktie.

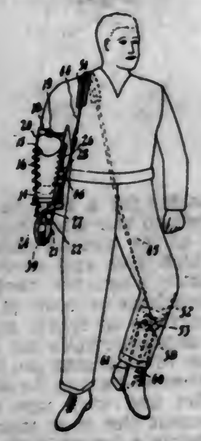
2,652,569
ALIGNING MEANS FOR NECKTIES
Albert Cenfino, New York, N. Y.
Application March 21, 1951, Serial No. 216,080
1 Claim. (Cl. 2—145)

Means for aligning and securing the depending front and rear end portions of a four-in-hand necktie to a button of a shirt with which the tie is worn, comprising an elongated securing strip of material extended vertically along the rear face of the depending front end portion, and means securing said strip at its top end to the rear face of the front end portion, said strip

having vertically spaced buttonholes along its length for selective engagement with the button of the shirt, the rear end portion of the tie having a plurality of vertically spaced horizontally disposed buttonholes through which the free end portion of said strip of material is selectively passed before being buttoned to the shirt button.



2,652,570
ARTIFICIAL HAND
John Sargeson, Long Branch, Ontario, Canada
Application November 28, 1951, Serial No. 258,585
7 Claims. (Cl. 3—12.6)



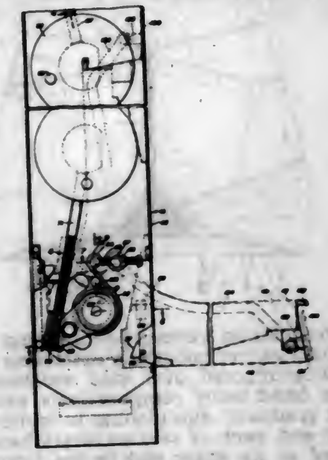
7. In an artificial hand, a jaw supporting socket, a jaw mounted thereon for movement between closed and open positions, resilient means normally retaining said jaw in a closed position, a spring supported to act on said jaw to press it to open position, a flexible element attached to and extending from said jaw, a tensioned reel for attachment to a limb of the wearer and connected to said flexible element for winding and unwinding movements, a means for locking said reel against turning in an unwinding direction.

2,652,571
PLUNGER AID
Howard J. Hix, Dearborn, Mich., assignor of twenty-five per cent to Joseph McCallion, Detroit, Mich.
Application January 26, 1949, Serial No. 72,870
1 Claim. (Cl. 4—255)

A plunger aid for the sealing of an overflow opening in a drain system and comprising a resilient sealing member adapted to cover the opening, a rod extending through said sealing member and having an elongated slot in one end thereof, an arcuate finger member positioned within said slot and movable in a transverse direction to said rod and pivotal relative thereto so that said finger member will lie back along said rod to facilitate the insertion of the end of said rod in said opening, and means on said rod for moving said sealing member towards said finger member to seal the said overflow drain opening.



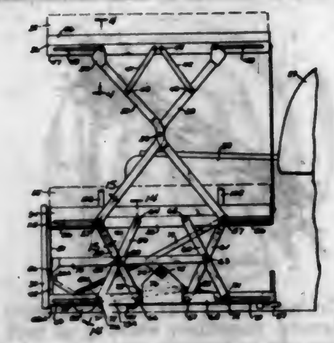
2,652,572
FOLDING BERTH
Albert A. Hopeman, Jr., Bronxville, N. Y., and John A. Behnsack, Waynesboro, Va., assignors to Hopeman Bros., Inc., New York, N. Y., a corporation of Delaware
Application April 14, 1948, Serial No. 21,048
12 Claims. (Cl. 5—9)



1. In a folding berth structure, a supporting frame, a berth pan having opposite ends thereof mounted for pivotal movement on said frame, a pair of spaced arms mounted for pivotal movement on said frame concentrically with the pivotal mounting of said pan and fixed to each other, means connecting said arms to said pan for movement therewith, a nut mounted for swiveling movement between said arms, a spindle having one end thereof threadedly engaged in said nut, a mounting for pivotally supporting the other end of said spindle on said frame, and means for rotating said spindle to move said pan.

2,652,573
CONVERTIBLE BED
Leonard F. Clerc, Detroit, Mich.
Application November 3, 1949, Serial No. 125,341
3 Claims. (Cl. 5—9)

1. In a device of the character described, the combination of a pair of bed frames, a base frame, pairs of cross arms positioned between the ends of said base frame and the ends of one of said bed frames, the ends of said arms being pivoted to said frames and the arms of each pair being pivoted to each other and a pair of arms pivoted together at the center positioned between the ends of said bed frames and pivoted thereto, certain of the end pivots of said first named pairs of arms being longitudinally movable on said base and said first named bed frame, and the end pivots of said other pairs of arms being longitudinally movable on said bed frames.



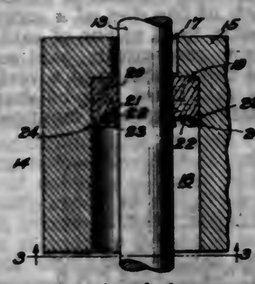
2,652,574
COMBINATION CHILD'S CRIB AND DRESSING TABLE
John A. Toomey, Worcester, Mass.
Application June 24, 1947, Serial No. 756,677
4 Claims. (Cl. 5—11)



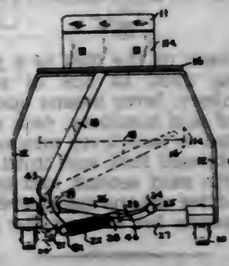
1. A crib comprising a frame, a spring bed bottom vertically movable therein, a geared shaft at the bottom of the crib, means to rotate the shaft, a left and right threaded cross shaft at each end of the crib also at the bottom thereof, gears to drive the cross shafts from the geared shaft, a pair of nuts on each cross shaft for movement toward or away from each other depending on the direction of rotation of the shafts, a link pivoted to each nut, said links being pivoted to each other intermediate their ends in pairs at the respective ends of the crib, the other ends of said links being slidably connected to the spring bed bottom.

2,652,575
SLIDABLE CONNECTION FOR THE DROP SIDES OF CRIBS
Victor J. Bukolt, Stevens Point, Wis.
Application January 24, 1950, Serial No. 140,190
2 Claims. (Cl. 5—100)

2. In a slidable connection for the drop side of a child's crib, a vertical guide rod, a wood rail of a drop side, said rail having a bore to receive said rod, the bore having a lower portion of greater diameter than its upper portion to form a downwardly facing annular shoulder, a compressible elastic fibrous lubricant-impregnated bushing slidably engaging said rod and seated against said shoulder, and a resilient metal retainer ring in the enlarged lower portion of the bore and engaged with said bushing, said ring having an annular series of downwardly inclined spring teeth to bite into the wall of the bore to lock said bushing, the ring being upwardly shiftable in the bore to compress the bushing.



2,652,576
CREEPER HEADREST
Hugh W. Clark, Troy, N. C.
Application September 29, 1949, Serial No. 118,689
3 Claims. (Cl. 5—327)

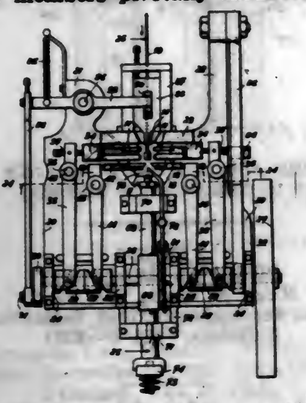


2. A creeper of the class described, comprising: a supporting platform; a head rest positioned above and adjacent one end of said platform; a support connected to said head rest and pivotally mounted on said platform for swinging upwardly and downwardly thereof; an arm pivotally mounted between its ends on said platform, one end of said arm being swingable upwardly and downwardly of said platform and in engagement with said support for swinging said support upwardly and downwardly of said platform; a lever pivotally mounted intermediate its ends on said platform; a spring connected at one of its ends to the opposite end of said arm and to one end of said lever, said spring being under tension upon rocking of said lever in one direction and being released from tension upon rocking of said lever in the other direction.

2,652,577
MACHINE FOR PRODUCING ARTICLES FROM BLANK STOCK
Serafino Chiaberta, Milan, Italy, assignor to Bullonerie e Viterie Italiane B. E. V. I., Milan, Italy
Application October 26, 1950, Serial No. 192,257
In Italy April 27, 1946
10 Claims. (Cl. 10—2)

1. A machine for producing articles from blank stock comprising, in combination, a horizontally mounted flat support; feeding means associated with said support for horizontally feeding over the latter an elongated length of stock supported at a position adjacent to but spaced from said support; a pair of members to which a first and third pair of shaping dies are fixed, one of the dies of each pair being fixed at spaced points to one of said members, respectively, and said mem-

bers being slidably mounted on said support so as to slide horizontally; a pair of members slidably mounted on said support so as to slide vertically, and each of the dies of a second pair of shaping dies being fixed to one of said vertically slidable members, respectively, said second pair of shaping dies being located in a vertical plane which includes said third pair of shaping dies; a pair of members pivotally mounted on said



support, and each of the dies of a pair of severing dies being fixed to one of said pivotally mounted members; lever means operatively connected to all of said members; cam means operatively connected to said lever means to move the same to actuate said first and third pairs of dies alternately with said second and severing pairs of dies; and drive means operatively connected to said cam means for driving the same.

2,652,578
WOOD SCREW MANUFACTURING PROCESS
Serafino Chiaberta, Milan, Italy, assignor to B. R. V. I. Bulloneria e Viteria Italiana, Soc. a resp. lim., Milan, Italy
Application July 19, 1947, Serial No. 762,165
In Italy April 27, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires April 27, 1966
7 Claims. (Cl. 10—10)



1. A method of manufacturing wood screws, comprising in combination, the steps of pressing a metal piece of circular cross-section into a piece having substantially a rectangular cross section, pressing a thread into the small sides of the rectangular cross section and transforming thereby the piece into a piece having substantially an elliptical cross-section with the major axis of the ellipse arranged parallel to the small side of the rectangular cross-section, and pressing a thread into the small sides of the elliptical cross-section, thereby reducing the cross-section of the metal piece into a circular cross-section.

2,652,579
MACHINE FOR CLEANING AND POLISHING SPACE BANDS AND THE LIKE
George P. Hartsell, Chester, Pa.
Application July 13, 1950, Serial No. 173,599
10 Claims. (Cl. 15—4)

1. In a machine for cleaning and polishing space bands and the like, means for forwardly progressing space bands having bodies and relatively slidable sleeves, means for sliding the bodies along the space bands relatively to the sleeves at



one position in the progression and means for polishing the bodies of the space bands under the sleeves as they are moved relatively.

2,652,580
BRUSH
Edwin A. Neugass, Port Chester, N. Y.
Application February 24, 1947, Serial No. 730,356
3 Claims. (Cl. 15—194)



1. A brush comprising a plurality of monofilaments welded together at one of their ends and being free at their other ends providing a knot or tuft, an internally threaded hollow member having a reduced opening at one end, said knot or tuft extending through said reduced opening with the welded portion abutting against said reduced opening, and a holder having a threaded portion engaging the threads of said member, said threaded portion having a dome-shaped end pressing against said welded portion whereby the latter is made to conform with the contour of said dome-shaped end and cause said plurality of monofilaments to flare out.

2,652,581
SCRAPING IMPLEMENT
Harold B. Richie, Chicago, Ill., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois
Application September 29, 1949, Serial No. 118,642
2 Claims. (Cl. 15—236)

1. A cleaning implement for use in scraping interior walls of food containers of adhering food particles comprising a band of metal coiled into a plurality of convolutions, the center line of said

band being in a single plane, and the outer end of said band being secured only to its anterior convolution to form a closed substantially cir-



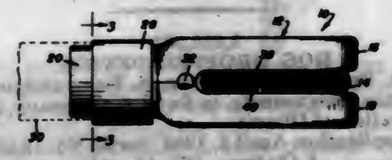
cular periphery and the inner end of said band being free to provide resiliency whereby the coil may conform to the contour of the container being cleaned.

2,652,582
DEVICE FOR CLEANING THE GROOVES AND LIPS ON CAN OPENINGS AND LIDS
Charles McCrohn, Shadyside, Ohio
Application October 6, 1951, Serial No. 250,106
5 Claims. (Cl. 15—236)



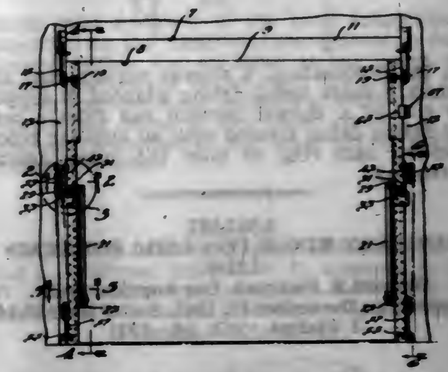
1. In a cleaning tool of the nature described; handle means comprising a pair of telescopic members, a guide element secured adjacent the end of one of said members and comprising a plate dependent therefrom and arcuate in the direction of its length and having a plate arcuate in outline secured to the lower edge thereof, a scraper element secured to the other part of the handle comprising a flat plate extending in the direction of the length of the handle and having at least one edge shaped to form scraping surfaces thereon, and means for clamping the parts of said handle in any desired position of telescopic adjustment.

2,652,583
SUCTION BRUSH HAVING REMOVABLE BRUSH UNITS FOR CLEANING VENETIAN BLINDS
Andrew C. Tomanica, Lansing, Mich.
Application May 29, 1950, Serial No. 164,906
3 Claims. (Cl. 15—394)



1. A suction brush for cleaning Venetian blind slats comprising a housing provided with a transverse recess open at the sides and front thereof, means on said housing for connecting said suction brush to a source of suction, said housing including upper and lower complemental sections, means for separably connecting said sections, upper and lower brush units positioned in the respective upper and lower sections of said housing, said recess providing a passageway for flow of air past said brush units, said brush units having opposed sets of bristles disposed in said recess for engagement with relatively opposite sides of a slat, first and second pairs of detents in opposite end portions of each of said sections, each of the first pairs of detents having opposing surfaces thereof provided with grooves parallel to the longitudinal axis of said housing, a pair of opposing hooks provided on each of said second pair of detents, pairs of prongs projecting longitudinally from one end of each of said brush units, said prongs slidably engaging said hooks, and pairs of keepers provided on each of said brush units, said keepers being slidably disposed in said grooves.

2,652,584
GARAGE DOOR SUPPORTING HARDWARE
Russel G. Johannsen, Detroit, Mich., assignor, by mesne assignments, to Johannsen & Taylor, Inc., Detroit, Mich., a corporation of Michigan
Application December 9, 1949, Serial No. 132,192
11 Claims. (Cl. 16—1)



9. One of two like assemblies forming the hardware for supporting a door in an opening embodying a U-shaped bracket having a supporting web portion and spaced projecting legs through which aligned apertures are provided, a horizontal support for said web, a vertical pivot securing said web to said support, a shaft extending through the apertures in said legs providing spaced bearings therefor, a door supporting arm secured to one end of the shaft, and a spring supporting arm secured to the other end of the shaft, said arms projecting in opposite directions.

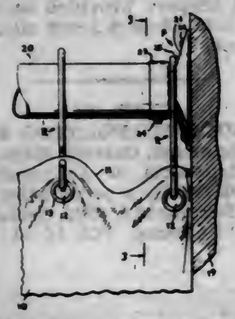
2,652,585
COMBINATION BUMPER AND RETAINER
Edward J. Herbemar, Detroit, Mich.
Application August 21, 1951, Serial No. 242,843
4 Claims. (Cl. 16—36)



1. A combination door stop and holder which comprises a rubber suction cup having a mounting head, a resiliently deformable skirt, and a

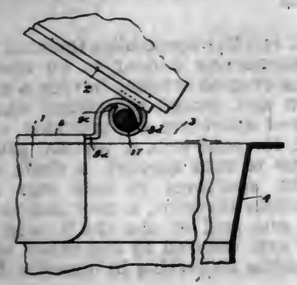
resiliently deformable central lug in the skirt and projecting beyond the skirt, said lug adapted to be deflected by a door for cushioning a sudden impact of the door, and means adapted for accommodating deflection of the lug into said skirt by a door for creating a suction gripping engagement therewith to fixedly retain the door.

2,652,586
CURTAIN ROD BRACKET AND RING
Elmer F. Ramsberger, Philadelphia, Pa.
Application June 26, 1951, Serial No. 233,595
2 Claims. (Cl. 16—87.2)



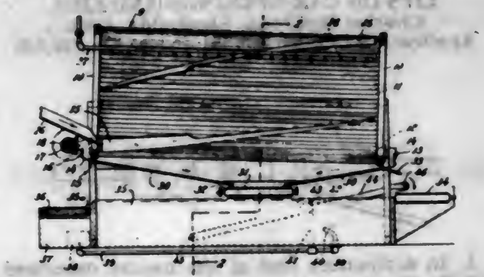
1. In combination, a shower curtain ring and a unitary sheet metal fitting adapted to support one end of a shower curtain rod from a wall, said fitting being formed with an annular groove receiving said ring to hold the latter against movement.

2,652,587
SANITARY HINGE FOR SODA FOUNTAIN LIDS
Howard S. Petersen, Los Angeles, Calif.
Application December 27, 1949, Serial No. 135,243
3 Claims. (Cl. 16—191)



1. In a sanitary hinge connection for connecting two adjacent lid sections normally disposed in a horizontal plane, the combination of a hinge-leaf for connection to one of said lid sections, and having an integral semi-cylindrical outer roll with a concavo-convex wall extending around through substantially one hundred and eighty degrees, and with the concave side of said roll disposed toward the plane in which the said hinge leaf lies, a second hinge leaf for connection to the other lid section having an integral concavo-convex inner roll lying within, and in contact with, the concave face of the outer roll, said rolls having their terminal side edges lying adjacent to each other and located at a distance from the plane of said hinge leaves, so that a gap exists between said terminal edges and the plane of said hinge leaves, said rolls extending continuously throughout the length of said hinge connection to prevent water from passing down through the hinge connection; and a tie-rod lying completely within the inner roll when the hinge leaves are in their horizontal position, said rod being of sufficient small diameter to enable the same to be freely movable laterally within the inner roll when the said hinge leaves are lying in substantially the same horizontal plane, said tie-rod extending continuously through said rolls from end to end thereof and having heads at its ends projecting over the ends of said rolls and preventing relatively longitudinally shifting of said rolls on each other.

2,652,588
APPARATUS FOR RECOVERING OYSTERS
Sterling G. Harris, Beaufort, S. C., assignor to Blue Channel Corporation, Port Royal, S. C., a corporation of Maryland
Original application June 28, 1950, Serial No. 170,789. Divided and this application November 20, 1951, Serial No. 257,378
1 Claim. (Cl. 17—3)

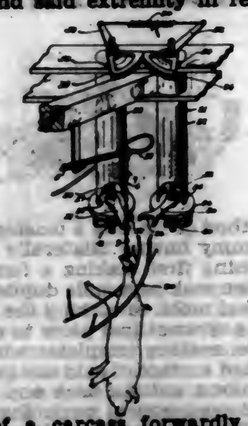


Apparatus for freeing the meats from steamed oysters and separating the meats from the shells, which comprises a drum mounted for rotation on an axis inclined at a low angle to the horizontal, the drum being formed of a pair of end rings connected by parallel longitudinal members spaced to permit oyster meats to pass between them while holding back oyster shells, a plurality of baffles mounted on the longitudinal members inside the drum and extending through the drum on a helical curve of a pitch longer than the drum, each baffle having a substantial width for less than half its length starting from the high end of the drum and being relatively narrow for the remainder of its length, means within and extending through the length of the drum for directing high pressure jets of water from near the top of the drum toward the rising side only of the drum, and means beneath the drum for collecting oyster meats passing between the longitudinal members of the drum.

2,652,589
HOG DROPPER DEVICE
Lee R. Spooner, Watertown, S. Dak., assignor, by mesne assignments, to Swift & Company, a corporation of Illinois
Application April 2, 1948, Serial No. 18,595
3 Claims. (Cl. 17—24)

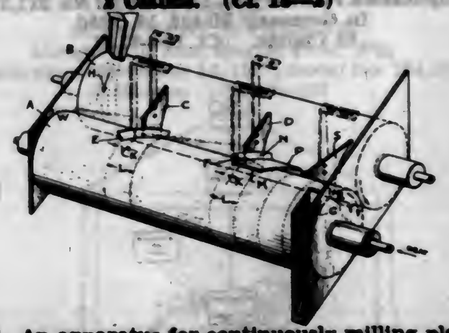
1. A machine for dropping animal carcasses from a shackle of the type which includes a chain looped around one of the extremities of the carcass, which shackle is supported from an overhead conveyor unit for movement along a given path, said machine including a frame, a detaching unit having a pair of supporting members, said members having recessed portions

therein, said supporting members being movably mounted from said frame with said portions positioned at a point along said path to receive said extremity below the loop of the chain, and actuating means associated with the supporting members to move one of said supporting members toward the other of the members to substantially surround said extremity in response to a



movement of a carcass forwardly against the other of the members, at least one of said units being constructed and arranged to approach the other of the units beyond said point along said path to release the weight of the carcass from the shackle to bring said loop into contact with the upper surfaces of said members to slacken the chain whereby the chain may be slipped from the extremity.

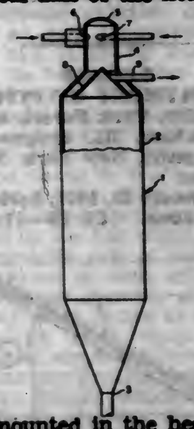
2,652,590
APPARATUS FOR THE CONTINUOUS MILLING OF PLASTICS
Robert Sullivan, Teddington, and Alexander Young Glendinning, Feltham, England, and Leonard Merrit Read, Llandaff, Cardiff, Wales, assignors to British Resin Products Limited, London, England, a British company
Application September 9, 1950, Serial No. 183,926
In Great Britain September 14, 1949
2 Claims. (Cl. 18—3)



1. An apparatus for continuously milling plastic compositions comprising a pair of milling rolls provided with at least one partition adapted to extend into and across the nip between the upper surfaces of the rolls in a skew position and to reach substantially to the top of the front roll.

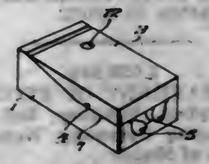
2,652,591
METHOD AND APPARATUS FOR THE TREATMENT OF PITCH
Herman C. Kuhn, Hammond, Ind., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application January 31, 1951, Serial No. 208,206
3 Claims. (Cl. 18—2.5)

3. An apparatus of the type described which comprises a vertically positioned elongated cylindrical chamber, a vertically positioned cylindrical head having a smaller diameter than that of the chamber and joined thereto above the upper end thereof, a pitch inlet mounted in the head substantially radial to and at right angles with the vertical axis of the head, a water dis-



charge inlet mounted in the head substantially tangential to the inner surface thereof, a baffle disposed within the chamber at the upper end thereof and located to intercept the gravity flow of water and displaced particles of pitch into said chamber, an outlet at the under surface of the baffle, and an outlet at the lower end of the cylindrical chamber.

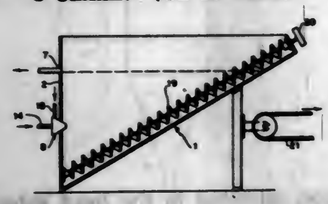
2,652,592
MOLDING METHOD AND APPARATUS
Paul A. Williams, Snyder, N. Y., assignor to The W. & F. Manufacturing Co., Inc., Buffalo, N. Y.
Application September 10, 1949, Serial No. 114,967
3 Claims. (Cl. 18—42)



1. A mold device for multi-color molding of wax objects comprising a main section and two complementary sections each formed to have a face fit and abut one face of the main section, one section at a time, said main section and one of said complementary sections having in their abutting parting faces complementary walls of a large cavity identical with the form and size of said object, said cavity terminating at one end at, and opening through, a divided face of the mold unit which is formed partly by said main section and partly by said one complementary section through which opening the fluid molding wax may be introduced into said cavity and partially removed by pouring the uncongealed portion after it has congealed to a desired thickness in the cavity, the parting face of the other complementary section forming, with the cavity of the parting face of the main section, a smaller cavity for molding a portion only of said object, said other section having a wall which abuts the parting face of the main section and enters the cavity in said main section to block off access between said opening and said smaller cavity, said other section also having a separate pouring passage solely therein and leading to said smaller cavity from an exterior face of said other section, whereby one may first cast a portion of said ob-

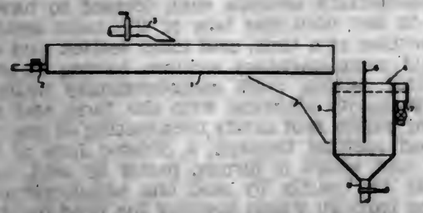
ject by filling said smaller cavity with molten wax of one color, then replacing said other section with said one section, but leaving the cast portion within the portion of the large cavity in the main section, and then molding the balance of the object by pouring further molten wax of a different color into the large cavity through said opening.

2,652,593
TREATMENT OF PITCH
Kenneth A. Smith, Park Forest, and Donald K. Hedeen, Markham, Ill., assignors to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application January 31, 1951, Serial No. 208,742
3 Claims. (Cl. 18—47.3)



1. In the process of cooling and solidifying hot molten petroleum pitch by contact with a water coolant, the steps of simultaneously fragmenting the liquid pitch and dispersing it in a body of the water coolant by injecting liquid pitch at a temperature above the softening point temperature of the pitch but below that at which the specific gravity of the pitch is equal to that of the water coolant into the body of water coolant beneath the surface thereof, injecting a fluid medium into the molten pitch at the point at which the pitch enters the body of water coolant whereby the pitch is dispersed into fragments in the body of water coolant, solidifying the dispersed fragments of pitch by prolonging the contact thereof with the water coolant, and collecting the solidified fragments of pitch.

2,652,594
TREATMENT OF PITCH
Oliver F. Campbell, Whiting, Ind., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application January 31, 1951, Serial No. 208,830
2 Claims. (Cl. 18—47.3)



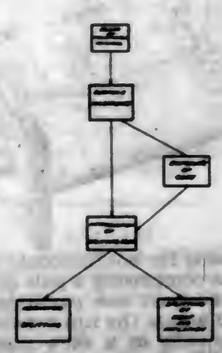
1. In the process of cooling and solidifying hot molten pitch by contact with a water coolant, the steps of simultaneously solidifying and fragmenting hot molten pitch by introducing the pitch at a temperature above the softening point temperature of the pitch but below the temperature at which the specific gravity of the pitch is equal to that of the water coolant into a stream of water coolant having a velocity which maintains a turbulent state at the point of pitch entry, and transporting the solid fragments of pitch in the water coolant to a collecting zone.

2,652,595
METHOD OF MAKING INDUSTRIAL MODELS AND FIXTURES
Steven P. Kish, Lansing, Mich., assignor to Kish Plastic Products, Inc., Lansing, Mich., a corporation of Michigan
Application January 24, 1950, Serial No. 140,234
13 Claims. (Cl. 18—47.5)



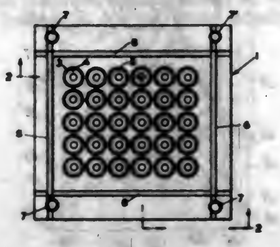
1. The method of making a master model from a styling dummy having bilaterally symmetrical parts comprising first making a female mold of said parts, then making a male duplication of said parts from said mold, reworking the surface area of one of said symmetrical parts to conform to a desired shape, making templates which conform to the reworked surface of said one part at spaced points therealong, cutting back any areas of the other of said symmetrical parts that are higher in elevation than the corresponding areas of said one part, removing said templates from said one part and mounting them in corresponding positions on and in identical relationship with respect to said other part and then conforming said other side to said one side using said templates as indexes, building up portions of said other part under the templates until such built-up portions conform exactly to the overlying confronting surfaces of the templates, and then building up the remaining areas of said other part to blend in with said built-up portions as required to make the surface of said other part a true opposite hand duplicate of said first part.

2,652,596
PRODUCTION OF SEAMLESS HOLLOW RUBBER ARTICLES
Walter Opavsky, Coburg, Germany
Application February 17, 1951, Serial No. 211,501
In Germany March 10, 1950
22 Claims. (Cl. 18—47.5)



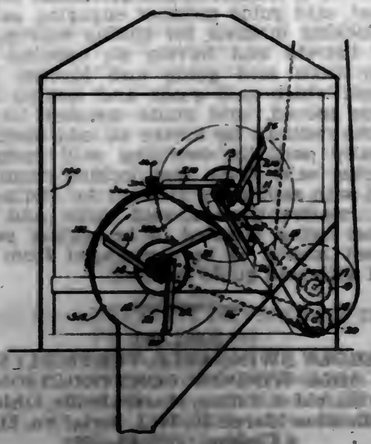
1. Process for the production of seamless hollow structures comprising the steps of subjecting a solid blank of vulcanizable material to a vulcanizing treatment completely curing said blank except the innermost core thereof, and splitting the blank in said inner uncured core, thereby converting said blank to a seamless hollow structure.

2,652,597
PROCESS FOR COMPRESSION MOLDING PLASTIC MATERIALS
Joseph R. Sucher, Woodmere, N. Y., assignor to Emsig Manufacturing Company, New York, N. Y., a firm
Application March 28, 1950, Serial No. 152,492
7 Claims. (Cl. 18—55)



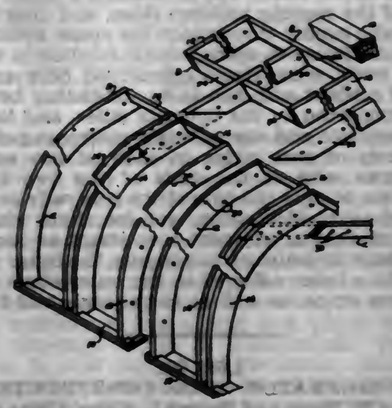
1. A process for producing shaped articles by compression molding in a mold having an upper and a lower mold part provided with registering cavities, said lower mold part being provided with retaining walls spaced from and surrounding said cavities, the lateral surfaces of said upper mold part being spaced from the cavities of the upper mold part and registering with the inner surfaces of said retaining walls, said process comprising introducing a liquid, thermosetting polyester resin composition into the cavities of the lower mold part, in a moderate excess over the amount necessary to fill the cavities; applying a stretchable membrane which is substantially insoluble in and capable of being wetted by said polyester resin composition, resistant under the heat and pressure conditions of molding and separable from the molded cured product, to the surface of the liquid resinous material in the lower mold half, by causing the membrane to contact said material over its entire surface and thus exclude air from between said surface and said membrane, prior to the closing of the mold; subsequently closing the mold and subjecting it to heat and pressure.

2,652,598
SCUTCHING APPARATUS
Dwight E. U'Ren, Beaver Dam, Wis.
Application November 18, 1947, Serial No. 786,624
5 Claims. (Cl. 19—12)



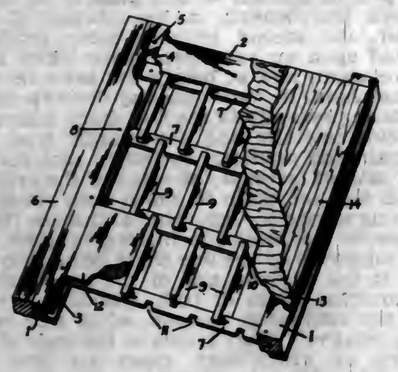
4. Scutching apparatus comprising the combination with a line chain, of first and second cylinders having interleaved scutching vanes positioned to act alternately upon fibers supported from the line chain, the first cylinder being mounted for rotation upon an axis nearly centered beneath the line chain, whereby its said vanes project laterally at both sides of the chain and pass therebeneath in the rotation of said cylinder, the second cylinder being rotatably mounted upon an axis horizontally offset from the line chain and at nearly the same level as the line chain, its vanes passing downwardly in immediate proximity to the line chain, a housing projecting laterally and downwardly from the line chain and arcuately encircling that portion of the path of travel of the vanes of the cylinder beneath the line chain in which such vanes are ascending toward the line chain at the side thereof opposite the second mentioned cylinder, the fibers supported by the line chain being fully exposed at the opposite side of the line chain to the scutching vanes of both cylinders as such vanes act alternately thereon, all of said vanes having relatively short radius at the ends of the cylinders at which such vanes are first encountered by fibers supported from the line chain and having relatively greater radius at the ends of the cylinders toward which said line chain moves such fibers, whereby the action of the vanes on the fibers commences near the outer end thereof and increases until it commences in close proximity to the line chain.

2,652,599
BUILDING FRAME
Lee Rodda, Elmhurst, and Harley M. Ward, Aurora, Ill., assignors to Masonite Corporation, Laurel, Miss., a corporation of Delaware
Application August 5, 1950, Serial No. 177,904
4 Claims. (Cl. 20—2)



1. A building frame comprising opposed rows of arched units having spaced curved upright members, a base and cross pieces, chord members extending between the curved upright members of said arched units at a distance below the upper extremities thereof, rectangular units having side members, an upper member, lower members and an intermediate member extending from the upper member and beyond the lower members and secured between the curved upright members of the arched units, and brace members extending between the chords and the side and intermediate members of said rectangular shaped units.

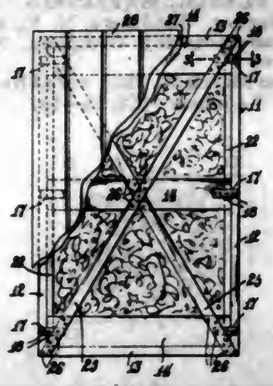
2,652,600
COMPOSITE PANEL
Joseph R. Burke, Seattle, Wash.
Application February 13, 1950, Serial No. 144,000
5 Claims. (Cl. 20—35)



1. An elongated composite panel, such as a hollow core door, comprising wooden stiles at the two longer side edges and wooden rails at the two shorter end edges, all of like and substantial thickness and joined fixedly together to define a marginal frame; two thin faces each consisting of an inner ply of wood veneer adhered to said marginal frame, and disposed with its grain generally parallel to the rails, and an outer ply of wood veneer adhered over its entire surface to said inner ply, and disposed with its grain generally parallel to the stiles; a plurality of separate wooden core strips disposed within the marginal frame all parallel to one another and to the stiles, each of a thickness equal to the thickness of the marginal frame, of a length only a fraction of the length of the stiles, and of a width a minor fraction of the spacing between stiles, and distributed generally evenly throughout the space within the marginal frame in spaced-apart relation in transverse rows; cross strips submerged between and out of contact with the faces, extending between and supported by the opposite stiles, and located intermediate and supportingly interengaged with the ends of core strips in each of two adjoining rows, and at the ends of the two terminal rows, to hold the core strips generally in their spaced-apart disposition, yet for slight shifting with relation to adjacent core strips as required by change in moisture conditions, the inner ply of each face being adhered to the outer edges of all the core strips, as well as to the marginal frame.

2,652,601
REFRIGERATOR DOOR CONSTRUCTION
George W. Slopa and Robert E. Slopa, Chicago, Ill.
Application August 30, 1951, Serial No. 244,416
5 Claims. (Cl. 20—35)

1. A construction for doors having a frame including uprights and connecting end members, cross braces extending between the uprights with one in edge abutment with the inside face of a related end member, said cross braces having one of their faces flush with one face of the frame, inner strips one overlying and secured to the inside face of each upright, said strips each having notches on one edge to fit snugly around the cross braces, the other edge of said strips lying inwardly of the other face of said frame, a facing overlying the flush face of the frame, said facing extending beyond the perimeter of the frame to define abutment of surfaces, a facing on the other side of said frame, said last named facing being secured to the inwardly offset edges of the inner



stripe, and insulation material filling the space within the frame and between said facings.

2,652,602
WINDOW CONSTRUCTION
Harold A. Etling, Marshallville, Ohio, assignor of twenty-fortieths to Betty J. Etling, five-fortieths to Betty J. Etling as trustee for Terry D. Etling, five-fortieths to Betty J. Etling as trustee for Harold Allen Etling, five-fortieths to Betty J. Etling as trustee for Melissa Ann Etling, and one-fortieth to Jefferson C. Etling, all of Marshallville, Ohio
Application March 25, 1949, Serial No. 83,423
5 Claims. (Cl. 20—50)

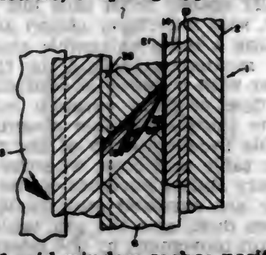


1. In a window construction wherein the window has pivotal and slide movement about one lateral edge thereof, a window sash, the combination consisting of a guide and locking member secured to said sash at the free lateral edge thereof, and a guide member for direct engagement with a window frame to extend the length thereof, said guide member engaging said guide and locking member for sliding movement relative thereto and having an opening therein longer than said guide and locking member through which said guide and locking member can be moved, said guide member having an integral resilient lip means at said opening and normally partially overlying said opening for retaining said guide and locking member engaged with said guide member for sliding movement relative thereto, said guide and locking member being adapted to be sprung past said resilient means to be disengaged from or engaged with said guide member.

2,652,603
INWARDLY SWINGABLE, VERTICALLY SLIDABLE WINDOW CONSTRUCTION
Harold A. Etling, Marshallville, Ohio
Application March 30, 1951, Serial No. 218,454
4 Claims. (Cl. 20—50)

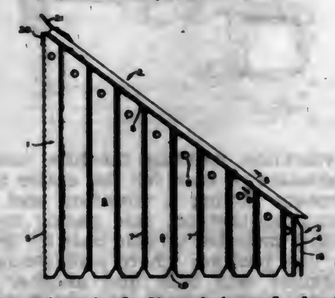
1. In a double hung window construction, a window frame, a pair of window sashes, means

engaging one vertically extending side of each of said sashes pivotally and slidably to said window frame, slides for the other vertical side of each of said window sashes, means engaging said slides with said frame for sliding movement vertically thereof, lock means releasably carried by said slides and automatically positioned by gravity to engage releasably with the said sash associated therewith at the free edge thereof to engage same with said frame, a spring type window balance



for each of said window sashes positioned at the top of said frame, each of said slides having an upwardly and outwardly directed hole provided therein, pin means extending transversely of said hole, and a balance tape extending from each of said balances through said holes and being doubled back around said pin means to be wedged into said hole, said balance tape being releasable from said pin means by being pulled laterally inwardly of said hole and being released from engagement with the said pin means.

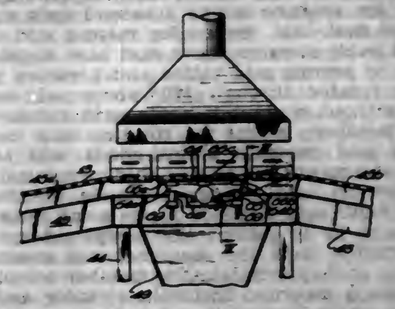
2,652,604
AWNING
William H. Corkrean, Washington, D. C.
Application January 18, 1950, Serial No. 139,245
5 Claims. (Cl. 20—57.5)



1. An awning including integral sloping roof and vertical front wall portions formed of a single piece of sheet metal corrugated to provide alternate ridges and channels with each of the ridges having a slit at an oblique angle to the bases of the channels in the roof portion and with the sheet disposed in bent condition at the vertex of the roof and front wall portions whereby the ridges of the roof portion overhang and project forwardly beyond the plane of the ridges of the front wall portion.

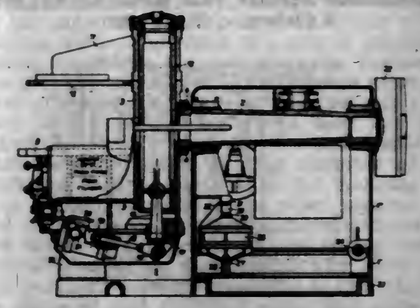
2,652,605
AUTOMATIC SHAKEOUT DEVICE FOR TIGHT FLASK MOLDS
Alfred C. Christensen, Chicago, Ill., assignor, by mesne assignments, to Herbert Simpson Corporation, Chicago, Ill., a corporation of Illinois
Application July 1, 1949, Serial No. 102,603
3 Claims. (Cl. 22—1)

1. In a mold cleaning system, a continuously movable conveyor arranged to both support and move along a string of successive filled flasks, continuously operable vibrator means below the path of the conveyor and independent from said



conveyor, and contact means on said vibrator means positioned to act directly against and progressively along the sides of each flask as it passes by to shake out the contents of the flask.

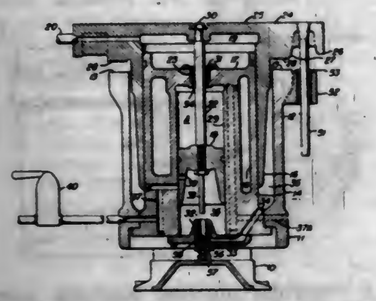
2,652,606
VIBRATION MOLDING MACHINE
Eduard Mezger, Kallnach, Switzerland
Application January 10, 1950, Serial No. 137,902
In Switzerland January 17, 1949
2 Claims. (Cl. 22—26)



1. A vibration molding machine comprising, in combination, a base member for the entire machine; a pair of casings resting on said base member; a pair of vibration and pressure tables movably mounted respectively in said casings, so that said tables are entirely separate from each other and are independently operable; an elongated hollow cylindrical guide member located between said casings and connected thereto, said guide member having a first axis which extends in a direction which is substantially perpendicular to said tables; an elongated cylindrical slide member slidably mounted within said cylindrical guide member and being substantially longer than said cylindrical guide member so that an end portion of said slide member extends beyond said cylindrical guide member at an end portion of said cylindrical guide member which is most distant from said tables; a pair of pressure plates respectively overlying said tables and mounted in substantially parallel relation thereto, said pressure plates being adapted to compress the sand in molds prepared on said tables when said tables are moved toward said pressure plates; a cylindrical support member connected to said pressure plates, mounted for rotation about said end portion of said cylindrical slide member and resting on said end portion of said cylindrical guide member, whereby said pressure plates may be rotated about said slide member

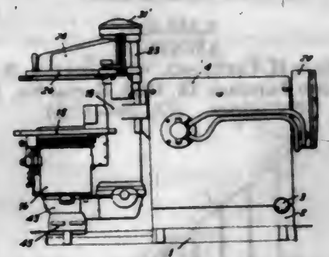
to move them from overlying relation with respect to said tables to permit the mold to be freely prepared on said tables; support means connected to said casing and supporting the same for rotation about a second axis normal to said first axis; means for raising said cylindrical guide member above said base member in order to permit said tables and pressure plates to be rotated through 180° about said second axis without contact between said casings and base member; means for rotating said casings, tables and pressure plates about said second axis; and means for moving said cylindrical slide member in said cylindrical guide member so as to move said pressure plates away from said tables so as to permit the completed mold to be removed from the machine, said means for moving said cylindrical slide member comprising a pivotally mounted hydraulic cylinder and piston assembly located in a housing mounted between said casings and a linkage means interconnecting said piston and cylindrical slide member, said linkage means comprising a connecting rod pivotally connected at one end to said cylindrical slide member and pivotally connected at its other end to said piston.

2,652,607
JOLT AND DRAW FOUNDRY MACHINE
Lester C. Young, Cleveland, Ohio, assignor to Spo, Inc., a corporation of Ohio
Application April 24, 1952, Serial No. 284,007
3 Claims. (Cl. 22—26)



1. A molding machine comprising relatively movable portions including a base and a jolt table, a jolt piston and jolt cylinder for raising the table relative to the base, said jolt piston and jolt cylinder defining a first extensible fluid pressure chamber on one side of the jolt piston, an inlet into said first extensible chamber for introducing fluid under pressure into said first chamber to raise the jolt table relative to the base, an outlet from said first extensible chamber through which fluid may be exhausted from said chamber, the flow of fluid into and out of said first extensible chamber being controllable by the relative movements of the jolt piston and cylinder, said jolt cylinder having internal walls and end closing means, said jolt piston having side wall surfaces fitting complementarily to said internal cylinder walls, piston rod means of smaller diameter than said jolt piston, said end closing wall means having a guide opening therethrough, said piston rod being dimensioned to fit said opening in fluid sealing relationship, said piston rod being secured on one end thereof to the jolt piston and passing through said guide opening and being secured at the opposite end thereof to one of said relatively movable members, said jolt cylinder being secured to the other of said relatively movable members, said jolt piston and cylinder defining a second extensible chamber between the piston and the end closing means on the opposite side of the piston from said first extensible chamber, first conduit means connecting the second extensible chamber with a source of controllable-pressure fluid, flow of fluid through said conduit means to the second extensible chamber thereby being operable independently of the relative position of the jolt piston and cylinder means, and outrigger piston and cylinder means having cooperating wall surfaces laterally spaced from said jolt piston and jolt cylinder, said out-rigger piston and cylinder means defining a third extensible chamber, second conduit means connecting the third extensible chamber with a source of controllable-pressure fluid, flow of fluid through said conduit means to the third extensible chamber thereby being operable independently of the relative position of the table and base, whereby the entire complementary sliding surfaces of the jolt piston and cylinder are enclosed and shielded against abrasive room dust, and the jolt table is guided for smooth jolt movement by the laterally spaced guiding action of the outrigger piston and cylinder means, and is guided by the vertically spaced guiding action of the jolt piston and guide opening.

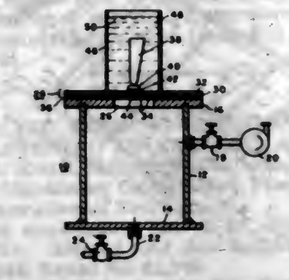
2,652,608
VIBRATION MOLDING MACHINE
Eduard Mezger, Kalinach, Switzerland
Application January 10, 1950, Serial No. 137,801
In Switzerland January 17, 1949
4 Claims. (Cl. 22—32)



3. A vibration molding machine comprising, in combination, a base for the entire machine; casing means having a vibration and pressure table mounted thereon, said casing means being movably mounted on said base for movement between one position where said casing means bears against said base and another position where said casing means is spaced from said base; moving means operatively connected to said casing means for moving the same from said one position to said other position; and turning means operatively connected to said casing means for inverting the same when said casing means is in said other position thereof.

2,652,609
METHOD OF MAKING MOLDS
Frank Sudia, Jr., Turtle Creek, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 17, 1950, Serial No. 139,094
3 Claims. (Cl. 22—196)

2. In the method of making molds, the steps comprising, positioning a wax pattern having a thin coating of investment material thereover on a filter plate, disposing an open ended flask vertically about the coated pattern on the filter plate, introducing a slurry of investment material comprising finely divided refractory solids and a binder therefor into the flask to a level to cover the coated pattern, applying a differential of pressure to the ends of the flask to develop a pressure at the upper end thereof that is 3 to 10 pounds per square inch higher than the pressure at the lower end of the flask to cause excess of the binder to flow through the finely divided refractory solids in the direction of the pattern



and to pass to the lower end of the flask and thereby to effect packing of the residual portion of the investment into a homogeneous mass about the coated pattern, effecting gelation of the remaining binder within the flask, and thereafter removing the wax pattern and heating the investment to form a substantially solid mold having a cavity of the shape and size of the pattern.

2,652,610
CHAIN CLIP
Thomas M. Cruce, Billings, Mont.
Application August 15, 1952, Serial No. 304,474
3 Claims. (Cl. 24—66)



1. A device of the type described comprising a length of spring-like wire, and having a hook formed on each of the free ends, an eye formed adjacent each of said hook ends, and two oblong loops formed in the greater portion of said wire intermediate the said eyes.

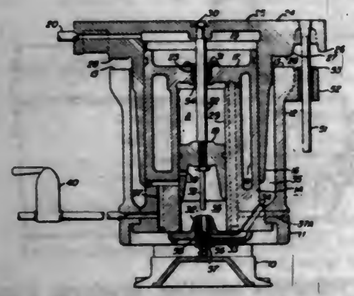
2,652,611
SEPARABLE SLIDE FASTENER
Erich Hermann Ernst Jaster, Eggenfelden, Niederbayren, Germany
Application December 28, 1950, Serial No. 203,129
In Germany January 2, 1950
7 Claims. (Cl. 24—201)



1. In a separable slide fastener of the class described, in combination with a pair of uniformly shaped continuous coupling strips of semi-resilient material, each of said coupling strips consisting of a comparatively thin fastening portion, for fastening each strip to an edge portion of a device to be opened and closed by the fastener, and of a coupling portion formed integrally with said fastening portion, said coupling portion consisting of a continuous outer rib connected on one side to said fastening portion, said outer rib being flat on its opposite free side, of a plurality of continuous coupling ribs of hook-shaped cross-sectional configuration on the side turned toward said outer rib and flat on the side turned away from said outer rib, and of a continuous backing strip having a flat outer surface and from the inner side of which said outer rib and said plurality of coupling ribs project in parallel and spaced relationship, being so shaped that between said outer rib and said plurality of coupling ribs recesses are formed which correspond in cross-section substantially to the cross-section of said coupling ribs, so that when said pair of uniformly shaped coupling strips are interlocked said plurality of coupling ribs of one coupling strip engages snugly in the plurality of recesses of the cooperating coupling strip and vice versa, while said straight-lined free side of each of said outer ribs of said cooperating pairs of strips rests snugly against and covers said flat side of the outermost coupling rib of the cooperating coupling strip, whereby said flat outer surfaces of said backing strips extend parallel to each other and form in conjunction with said outer ribs a coupling body of substantially rectangular cross-section; the provision of a slider for interlocking and separating said pair of uniformly shaped coupling strips, consisting of a pair of superposed guiding chambers for said coupling portions of said pair of coupling strips separated from each other at the entering side of the slider by a partition and conically converging near the outlet end of the slider behind the rear end of said partition into one single guiding chamber of such restricted vertical depth that the coupling portions of said coupling strips when passing from said pair of superposed guiding chambers into said single guiding chamber are forced into interlocking coupling engagement with each other, said partition extending parallel to the interlocking plane of said coupling strips and being provided on its upper side and underside with a plurality of longitudinally extending rib-like projections corresponding in number to the number of recesses in said coupling portions and staggered with respect to each other in such a way that the rib-like projections on the upper side of said partition are positioned above the recesses between the rib-like projections on the underside of the partition so that the rib-like projections on the upper side of the partition when in engagement with the recesses of the upper coupling portion open up said recesses for said coupling ribs of the lower coupling portion positioned in the recesses between the rib-like projections on the underside of the partition and vice versa for mutual engagement when said coupling portions are forced into interlocking coupling engagement with each other behind the rear edge of said partition, said slider being further provided on either side with a longitudinally extending guiding slot suitably positioned for said fastening portions of said pair of coupling strips to project therethrough while said coupling portions are being guided within said guiding chambers, said guiding slots extending from the entering side to the outlet side of the slider in such a way that they converge behind the rear end of said partition into a common plane corresponding to the center plane of the interlocked coupling strips.

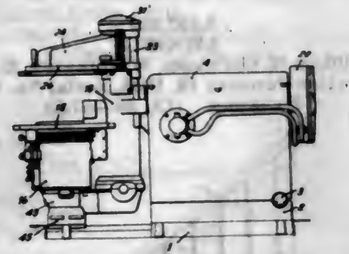
to move them from overlying relation with respect to said tables to permit the mold to be freely prepared on said tables; support means connected to said casing and supporting the same for rotation about a second axis normal to said first axis; means for raising said cylindrical guide member above said base member in order to permit said tables and pressure plates to be rotated through 180° about said second axis without contact between said casings and base member; means for rotating said casings, tables and pressure plates about said second axis; and means for moving said cylindrical slide member in said cylindrical guide member so as to move said pressure plates away from said tables so as to permit the completed mold to be removed from the machine, said means for moving said cylindrical slide member comprising a pivotally mounted hydraulic cylinder and piston assembly located in a housing mounted between said casings and a linkage means interconnecting said piston and cylindrical slide member, said linkage means comprising a connecting rod pivotally connected at one end to said cylindrical slide member and pivotally connected at its other end to said piston.

2,652,607
JOLT AND DRAW FOUNDRY MACHINE
Lester C. Young, Cleveland, Ohio, assignor to Spo, Inc., a corporation of Ohio
Application April 24, 1952, Serial No. 284,007
3 Claims. (Cl. 22—26)



1. A molding machine comprising relatively movable portions including a base and a jolt table, a jolt piston and jolt cylinder for raising the table relative to the base, said jolt piston and jolt cylinder defining a first extensible fluid pressure chamber on one side of the jolt piston, an inlet into said first extensible chamber for introducing fluid under pressure into said first chamber to raise the jolt table relative to the base, an outlet from said first extensible chamber through which fluid may be exhausted from said chamber, the flow of fluid into and out of said first extensible chamber being controllable by the relative movements of the jolt piston and cylinder, said jolt cylinder having internal walls and end closing means, said jolt piston having side wall surfaces fitting complementarily to said internal cylinder walls, piston rod means of smaller diameter than said jolt piston, said end closing wall means having a guide opening therethrough, said piston rod being dimensioned to fit said opening in fluid sealing relationship, said piston rod being secured on one end thereof to the jolt piston and passing through said guide opening and being secured at the opposite end thereof to one of said relatively movable members, said jolt cylinder being secured to the other of said relatively movable members, said jolt piston and cylinder defining a second extensible chamber between the piston and the end closing means on the opposite side of the piston from said first extensible chamber, first conduit means connecting the second extensible chamber with a source of controllable-pressure fluid, flow of fluid through said conduit means to the second extensible chamber thereby being operable independently of the relative position of the jolt piston and cylinder means, and outrigger piston and cylinder means having cooperating wall surfaces laterally spaced from said jolt piston and jolt cylinder, said out-rigger piston and cylinder means defining a third extensible chamber, second conduit means connecting the third extensible chamber with a source of controllable-pressure fluid, flow of fluid through said conduit means to the third extensible chamber thereby being operable independently of the relative position of the table and base, whereby the entire complementary sliding surfaces of the jolt piston and cylinder are enclosed and shielded against abrasive room dust, and the jolt table is guided for smooth jolt movement by the laterally spaced guiding action of the outrigger piston and cylinder means, and is guided by the vertically spaced guiding action of the jolt piston and guide opening.

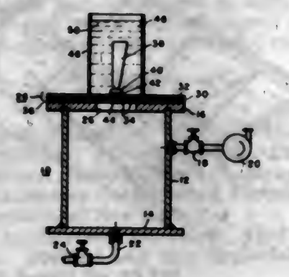
2,652,608
VIBRATION MOLDING MACHINE
Eduard Merger, Kallnach, Switzerland
Application January 10, 1950, Serial No. 137,801
In Switzerland January 17, 1949
4 Claims. (Cl. 22—32)



3. A vibration molding machine comprising, in combination, a base for the entire machine; casing means having a vibration and pressure table mounted thereon, said casing means being movably mounted on said base for movement between one position where said casing means bears against said base and another position where said casing means is spaced from said base; moving means operatively connected to said casing means for moving the same from said one position to said other position; and turning means operatively connected to said casing means for inverting the same when said casing means is in said other position thereof.

2,652,609
METHOD OF MAKING MOLDS
Frank Sudia, Jr., Turtle Creek, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 17, 1950, Serial No. 139,094
3 Claims. (Cl. 22—196)

2. In the method of making molds, the steps comprising, positioning a wax pattern having a thin coating of investment material thereover on a filter plate, disposing an open ended flask vertically about the coated pattern on the filter plate, introducing a slurry of investment material comprising finely divided refractory solids and a binder therefor into the flask to a level to cover the coated pattern, applying a differential of pressure to the ends of the flask to develop a pressure at the upper end thereof that is 3 to 10 pounds per square inch higher than the pressure at the lower end of the flask to cause excess of the binder to flow through the finely divided refractory solids in the direction of the pattern



and to pass to the lower end of the flask and thereby to effect packing of the residual portion of the investment into a homogeneous mass about the coated pattern, effecting gellation of the remaining binder within the flask, and thereafter removing the wax pattern and heating the investment to form a substantially solid mold having a cavity of the shape and size of the pattern.

2,652,610
CHAIN CLIP
Thomas M. Cruce, Billings, Mont.
Application August 15, 1952, Serial No. 304,474
3 Claims. (Cl. 24—66)

1. A device of the type described comprising a length of spring-like wire, and having a hook formed on each of the free ends, an eye formed adjacent each of said hook ends, and two oblong loops formed in the greater portion of said wire intermediate the said eyes.

2,652,611
SEPARABLE SLIDE FASTENER
Erich Hermann Ernst Jaster, Eggenfelden, Niederbayern, Germany
Application December 28, 1950, Serial No. 203,129
In Germany January 2, 1950
7 Claims. (Cl. 24—201)



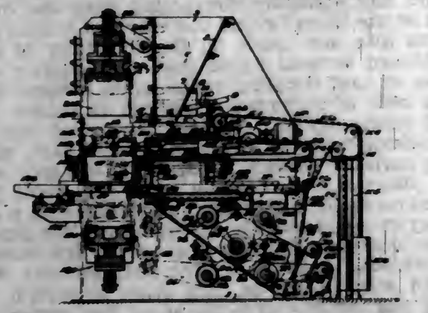
1. In a separable slide fastener of the class described, in combination with a pair of uniformly shaped continuous coupling strips of semi-resilient material, each of said coupling strips consisting of a comparatively thin fastening portion, for fastening each strip to an edge portion of a device to be opened and closed by the fastener, and of a coupling portion formed integrally with said fastening portion, said coupling portion consisting of a continuous outer rib connected on one side to said fastening portion, said outer rib being flat on its opposite free side, of a plurality of continuous coupling ribs of hook-shaped cross-sectional configuration on the side turned toward said outer rib and flat on the side turned away from said outer rib, and of a continuous backing strip having a flat outer surface and from the inner side of which said outer rib and said plurality of coupling ribs project in parallel and spaced relationship, being so shaped that between said outer rib and said plurality of coupling ribs recesses are formed which correspond in cross-section substantially to the cross-section of said coupling ribs, so that when said pair of uniformly shaped coupling strips are interlocked said plurality of coupling ribs of one coupling strip engages snugly in the plurality of recesses of the cooperating coupling strip and vice versa, while said straight-lined free side of each of said outer ribs of said cooperating pairs of strips rests snugly against and covers said flat side of the outermost coupling rib of the cooperating coupling strip, whereby said flat outer surfaces of said backing strips extend parallel to each other and form in conjunction with said outer ribs a coupling body of substantially rectangular cross-section; the provision of a slider for interlocking and separating said pair of uniformly shaped coupling strips, consisting of a pair of superposed guiding chambers for said coupling portions of said pair of coupling strips separated from each other at the entering side of the slider by a partition and conically converging near the outlet end of the slider behind the rear end of said partition into one single guiding chamber of such restricted vertical depth that the coupling portions of said coupling strips when passing from said pair of superposed guiding chambers into said single guiding chamber are forced into interlocking coupling engagement with each other, said partition extending parallel to the interlocking plane of said coupling strips and being provided on its upper side and underside with a plurality of longitudinally extending rib-like projections corresponding in number to the number of recesses in said coupling portions and staggered with respect to each other in such a way that the rib-like projections on the upper side of said partition are positioned above the recesses between the rib-like projections on the underside of the partition so that the rib-like projections on the upper side of the partition when in engagement with the recesses of the upper coupling portion open up said recesses for said coupling ribs of the lower coupling portion positioned in the recesses between the rib-like projections on the underside of the partition and vice versa for mutual engagement when said coupling portions are forced into interlocking coupling engagement with each other behind the rear edge of said partition, said slider being further provided on either side with a longitudinally extending guiding slot suitably positioned for said fastening portions of said pair of coupling strips to project therethrough while said coupling portions are being guided within said guiding chambers, said guiding slots extending from the entering side to the outlet side of the slider in such a way that they converge behind the rear end of said partition into a common plane corresponding to the center plane of the interlocked coupling strips.

2,652,612
MEANS FOR CONNECTING BRACELETS TO WRIST WATCHES
Louis E. Valcourt, East Providence, R. I., assignor to Kestenman Bros. Mfg. Co., Providence, R. I., a corporation of Rhode Island
Application July 25, 1950, Serial No. 175,702
3 Claims. (Cl. 24—265)



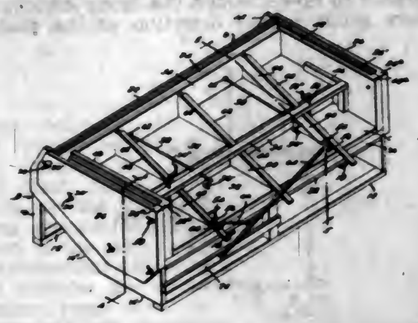
1. Means for attaching straps, bands and bracelets to wrist-watches embodying an end member for connection to the end of a strap or bracelet, extension elements telescopically supported in said end member to adapt them to be projected outwardly from the ends thereof, pintles slidably supported in said extension elements, a spring engaging between said pintles to project them outwardly at the ends of the extension elements, an element hinged to said end member and provided with a series of spaced slots, detent projections on the extension elements engageable in said slots in the hinged element to hold said elements in different positions of spaced-apart relationship, and means for releasably holding said hinged element in position with the detent means engaged in its slots.

2,652,613
BUILDING BLOCK MOLDING MACHINE
Millard R. Warren, Knoxville, Tenn.
Application July 23, 1947, Serial No. 763,011
11 Claims. (Cl. 25—41)



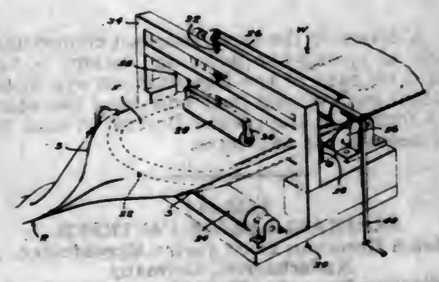
6. In a building block molding machine of the class wherein a head is initially elevated above a mold and is movable down into engagement with a charge in the mold after a mix box advances from a source of supply of mix to a position above the mold and drops a charge of mix into the mold and thereafter is withdrawn, the combination of energy-storing means operatively connected to the mix box to receive and store energy on withdrawal of the mix box, positive drive means for withdrawing the mix box and simultaneously conditioning the energy-storing means to store a predetermined limited quantity of energy therein, means for thereafter acting on the energy-storing means to release said quantity of energy to advance the mix box, and control means operative to lower the head into engagement with the charge in the mold after the mix box is withdrawn and to hold the head in such engagement until the charge becomes compacted to a predetermined height in the mold and operative thereafter, in response to the charge becoming compacted to said predetermined height, to raise the head.

2,652,614
MOLD FOR MAKING CONCRETE STEPS
Alma Como, Sulphur, La.
Application October 3, 1949, Serial No. 119,231
4 Claims. (Cl. 25—118)



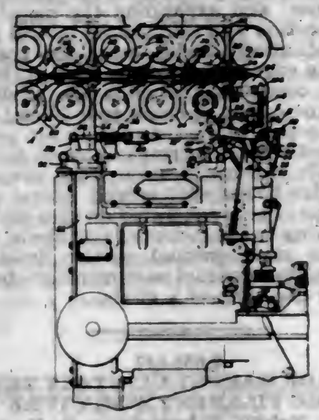
1. A mold for making a concrete step unit, comprising a base section having end walls of a stepped formation, a stepped bottom section having the ends of its tread forming portions removably supported on the horizontal edges of the step formations of said end walls, other end walls for said stepped bottom section removably secured against the outer sides of the end walls of said base section and the ends of said tread forming portions, a top section removably supported in overlying relation with respect to said stepped bottom section and spaced therefrom, and still other end walls for said top section and removably supported thereon in spaced relation with respect to said other end walls.

2,652,615
MEANS FOR OPENING AND DETWISTING TUBULAR FABRIC
James B. Lasley, Lancaster, S. C., assignor to The Springs Cotton Mills, Inc., a corporation of South Carolina
Application February 12, 1951, Serial No. 210,452
5 Claims. (Cl. 26—55)



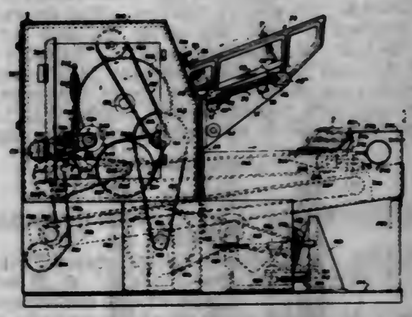
5. A device of the character described for opening and detwisting tubular fabric following wet processing of said fabric in rope form, said device comprising a frame structure, an opening shoe formed with flat top and bottom faces and rounded side edges joining said faces, said faces and side edges being proportioned with a cross section fitting the tubular extent of said fabric, means on said frame structure for supporting and holding said opening shoe while drawing a rope of said tubular fabric thereover for opening, a roller member, means on said frame structure for disposing said roller member transversely in relation to a flat face of said opening shoe and for yieldingly pressing said roller member against said opening shoe face for rotation by said tubular fabric as it is drawn thereover, and associated manually operable means for adjusting the transverse disposition of said roller member angularly with respect to the longitudinal axis of said shoe, whereby said rope of tubular fabric may be caused to shift about said opening shoe as it is drawn thereover for opening and thereby remove twist from said rope of tubular fabric.

2,652,616
STRAND FEEDING MECHANISM FOR FASTENING INSERTING MACHINES
Clyde L. Knott, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application March 29, 1947, Serial No. 738,995. Divided and this application October 21, 1948, Serial No. 55,766
5 Claims. (Cl. 28—71.5)



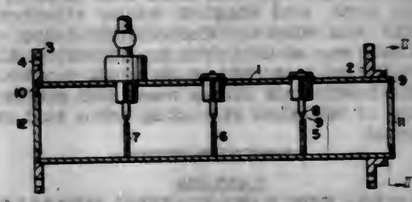
1. In a strand feeding mechanism, the combination with a rotary reel on which the strand is wound up and a pair of feed rollers between which the strand is gripped and by which the strand is intermittently advanced, of a pull-off member adapted to engage the strand between the reel and the rollers, retractable means for holding the pull-off member prior to the advance of the strand in a normal position in which it holds taut the extent of strand between the reel and the rollers, said retractable means including a support for the pull-off member and an abutment member adapted to engage said support and retract said pull-off member from said normal position to release the strand from tension, and a reciprocating actuating member having connections to said retractable means and to one of said feed rollers, said connections being so arranged that during movement of said reciprocating actuating member in one direction it causes said abutment member to engage the support for the pull-off member and thereby positively retracts the pull-off member to release the strand from tension and simultaneously imparts a feed movement to the feed rollers, and that during movement of said reciprocating actuating member in the opposite direction it returns the pull-off member to its normal position thereby causing the pull-off member to exert a tensioning influence upon the strand to pull off a length of strand from the reel.

2,652,617
MACHINE FOR MANUFACTURING BATTERY PLATES
Alfred R. Willard, East Cleveland, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application October 28, 1947, Serial No. 782,541
51 Claims. (Cl. 29—2)



1. In an apparatus for operating upon storage battery plates united by an integral web, a frame, a polygonally shaped drum rotatably mounted on said frame, means for rotating said drum, plate holding means carried by said drum and movable relative to the latter for supporting and firmly holding connected battery plates on each face of the drum, means for breaking out the web joining the connected plates while the plates are supported and held on the drum and the latter is rotating, and means acting on the plate holding means subsequent to operation of said breaking means to move the plate holding means to plate releasing position.

2,652,618
RADIOACTIVE PRIMED RESONANT WINDOW FOR HIGH-FREQUENCY DISCHARGE DEVICES
Thomas G. Prescott, Beverly, Mass., assignor to Bomac Laboratories Inc., Beverly, Mass., a corporation of Massachusetts
Application December 26, 1952, Serial No. 327,976
2 Claims. (Cl. 29—25.13)



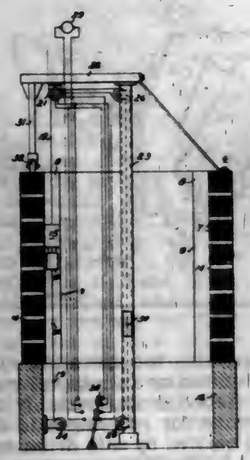
1. A method of radioactively priming a resonant window for high-frequency discharge devices, said resonant window having a metallic frame member provided with a central resonant aperture and a dielectric enclosure member covering said aperture, comprising the steps of depositing a thin film of metallic oxides on said apertured metallic frame member, positioning a dielectric enclosure member thereon, depositing a plurality of drops of an aqueous radioactive solution having a concentration of approximately 5 microcuries per cubic centimeter on said positioned dielectric enclosure member and heating said positioned members to the temperature necessary to fuse the dielectric material and metallic oxides in a vacuum tight seal.

2,652,619

DEVICE FOR MECHANICALLY SIZING THE SLOTS OF MAGNETIC CORES

Leon A. Watts, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application February 16, 1948, Serial No. 8,657
1 Claim. (Cl. 29—76)



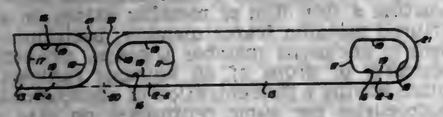
A device for filing the slots of a cylindrical laminated core having a vertical axis, said slots being longitudinally and symmetrically disposed with respect to the axis of said core, said device comprising a shaft, said shaft mounted coaxially of said core, a radial arm mounted on said shaft for rotary movement about the axis of said core, a file comprising two members, a spacer disposed between said members to space apart said members for engaging opposite walls of one of said slots, a hoist including a cable attached to said file for longitudinally stroking said file in one direction only in said one of said slots, said file being guided outside said slots during the return stroke, said hoist mounted on said arm with said cable aligned with said one of said slots pulling said file therethrough, means rotating said arm about said shaft into different positions corresponding to different said slots to align said file and said cable with another one of said slots, and magnet means attached to said file and disposed immediately below said file in said one of said slots for collecting filings removed from said core by an upward stroke of said file before said filings reach the portion of said one of said slots extending below said magnet means.

2,652,620

PROCESS FOR FABRICATING METALLIC MEMBERS HAVING PORTIONS OF DIFFERENT WIDTHS

Walter S. Sutowski, Garfield Heights, Ohio

Application May 16, 1951, Serial No. 226,631
1 Claim. (Cl. 29—148)



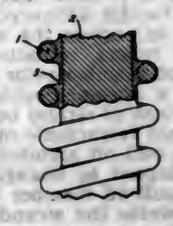
The process of making a member having a body portion of one width and an enlarged portion having a second and greater width and having an opening disposed therein at the location of said enlarged portion, said enlarged portion being located adjacent an end of said body portion, said opening having an edge in the form of a circle, said opening being bound by said body portion, by a terminal portion opposite of said body portion and by spaced lateral portions connecting said body portion and terminal portion, said member being made from a strip of flat metal having a width the same as said one width, comprising: the stamping of a said member from a said strip of metal, said stamping including the forming of ends of said member and the forming of an initial opening in said strip adjacent an end of the said member, the operation of forming said initial opening including the stamping of the opening edge bound by said body portion in the shape of an arc generated on a first radius corresponding to the radius of said circle, the stamping of the opening edge bound by said terminal portion in the shape of an arc generated on a second radius substantially shorter than said first radius, and the stamping of the opening edge bound by said spaced lateral portions in the shape of substantially straight lines substantially parallel to the side edges of said member; and expanding the metal of said terminal portion and said spaced lateral portions while substantially maintaining the position of the opening edge bound by said body portion, said expanding operation including the modification of the shape of the opening edge bound by said terminal portion to the shape of an arc generated on said first radius corresponding to the radius of said circle, the modification of the shape of the opening edge bound said spaced lateral portions to the shape of arcs generated on said first radius corresponding to the radius of said circle, and the drawing of said terminal portion toward said body portion to contract said member about said opening in the form of a circle.

2,652,621

METHOD OF MAKING A UNITARY THERMIONIC FILAMENT STRUCTURE

Richard B. Nelson, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application February 25, 1949, Serial No. 78,401
1 Claim. (Cl. 29—155.5)



The method of making a unitary thermionic filament structure composed of a tungsten filament having a helically extending ridge on the surface thereof which comprises winding a smaller tungsten wire onto a tungsten filament, heating the resultant structure in a carburizing atmosphere to form a layer of tungsten carbide on the surfaces thereof, melting the carburized layer to cause migration thereof into the areas of contact between the filament and wire, and thereafter reducing the tungsten carbide to tungsten at an elevated temperature below the melting point of the carbide in a moist hydrogen atmosphere to produce a filament structure consisting of a single piece of tungsten.

2,652,622

METHOD OF MAKING ELECTRIC HEATERS

Allan P. Charbonneau, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware

Application June 7, 1947, Serial No. 753,326
3 Claims. (Cl. 29—155.5)



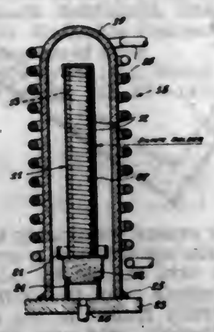
1. The method of making a sheathed electric heater wherein a resistor with a terminal end portion is surrounded by a tubular sheath containing granular refractory insulation in which said resistor is embedded and which is to be compacted by contracting said sheath, comprising inserting into an open end of said sheath prior to contracting the same a formed plug perforated to receive said terminal end portion of the resistor, said plug consisting of a material which in formed condition is compressible and which breaks down and evacuates from the sheath as vapor when subjected to heat both in air and in an inert atmosphere, then effecting anchorage in said sheath of said plug and the terminal end portion surrounded by said plug, then contracting the sheath laterally over its entire length, and then annealing the sheath to remove the stresses incurred during contraction thereof and to effect evacuation of the plug from the sheath to thereby provide a recess to accommodate a terminal end seal.

2,652,623

MANUFACTURE OF REFRACTORY METAL TUBES

John W. Marden, East Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 10, 1945, Serial No. 582,042
5 Claims. (Cl. 29—156)



5. The method of making a tube of a metal of the group consisting of molybdenum, tungsten and alloys of one or both of said metals with small proportions of other metals, comprising closely winding a wire of the selected metal, helically around a mandrel of readily machinable cheap metal, so that each turn closely abuts its neighbor, securing the ends of said wire to said mandrel, applying brazing material to the coil of wire along the length of the wound mandrel, placing the assembly in an upright position with one end supported in a cup of similar material, enclosing said assembly and cup in an air-tight envelope, evacuating said envelope, heating said assembly in said envelope, thereby causing the brazing material to melt and flow into the narrow space between the turns of wire, so that any excess collects in the supporting cup and if all the space between the turns is not initially filled, said material flows by capillary action up along the helical path between said turns, discontinuing the heating when the desired brazing has been effected, allowing the material to cool, and removing said mandrel from the formed tube, whereby said tube has relatively great circumferential strength, in accordance with the longitudinal strength of the wire from which made.

2,652,624

METHOD OF PRODUCING COMPOSITE METAL

Edward Joseph Guinee, Roselle, N. J., assignor to The H. A. Wilson Company, Newark, N. J., a corporation of New Jersey

No Drawing. Application August 28, 1948, Serial No. 46,715
1 Claim. (Cl. 29—189)

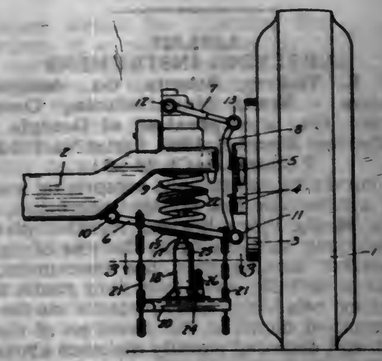
The method of producing a composite metal having a surface layer of mixed silver and graphite and a backing of steel which comprises applying a layer of dense non-porous substantially pure silver to a steel sheet, applying an even layer of a mixture of silver and graphite powders directly to said dense non-porous silver layer, compressing said layer of mixed powders against the silver layer while heating both layers to a silver-welding temperature near but below the melting temperature of silver, whereby the layer of mixed silver and graphite powders is transformed into an integral silver-graphite layer which is firmly bonded to the underlying substantially pure silver layer, and reducing the resulting composite metal to final thickness by cold rolling, the thickness of the silver-graphite layer as applied to the silver layer and the thickness of the steel and pure silver layers prior to application of the silver-graphite layer being such that final thickness of the composite metal is attained after rolling to a maximum extent of 30% reduction in area.

2,652,625

COIL SPRING COMPRESSING DEVICE

W. B. Perkins, St. Paul, Minn., assignor to Henry H. Graham, Minneapolis, Minn.

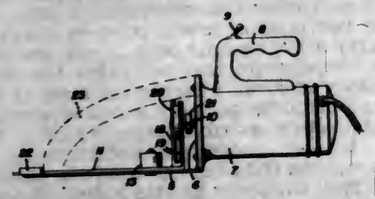
Application May 13, 1950, Serial No. 161,850
1 Claim. (Cl. 29—283)



A device for use in the compression of coil springs of the character employed for wheel sus-

pension in automobiles, said device comprising a plate adapted to serve as a base of reaction for a spring compressing jack and having a generally helical spring seating upper surface adapted to seat against the helical surface of a portion of a spring convolution intermediate the ends of the spring, said generally helical seat being of more than 180° in extent and of less than 360° in extent to allow the extension thereby of a portion of a seated spring convolution extending to an adjacent spring convolution, said plate including a central body and a marginal helical flange, the said flange and adjacent portion of said body providing said helical seating surface and being curved axially of the plate for general conformity with the circumferential contour of the portion of the spring convolution seatable therein, said plate being closed at its axis and said closed axial portion having a flat jack-seating undersurface that is so angularly disposed with respect to the helical spring seating upper surface that it will be substantially perpendicular to the axis of a coil spring when the helical seating surface is seated against an intermediate convolution of the spring.

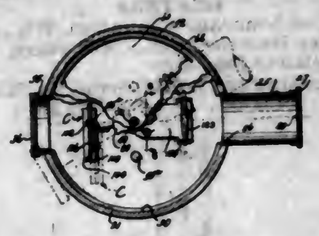
2,652,626
POWER-OPERATED SHEARS
Harold W. Dutcher, San Antonio, Tex., assignor of twenty-five per cent to Harry R. Morgan, San Antonio, Tex.
Application January 21, 1952, Serial No. 267,351
4 Claims. (Cl. 30—216)



1. In a power operated grass trimmer, the combination of a portable power unit including a rotatable eccentric cam, and a cutting unit detachably carried by the power unit and comprising a V-shaped stationary cutter, a pivoted double-edged blade carried by the stationary cutter for swinging back and forth across the crotch portion of the latter, a yoke at the rear end of the blade in which the cam is positioned for actuating the blade, and an arcuate shield attached at one end to the front end of the stationary cutter and attached to its other end to the power unit and arched over the cutting unit.

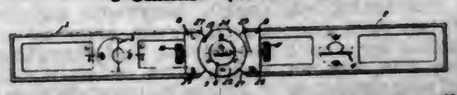
2,652,627
SURVEYING INSTRUMENT
Robert K. Vickery, Atlanta, Ga., assignor to Bostrom - Brady Manufacturing Company, Atlanta, Ga., a corporation of Georgia
Application March 7, 1952, Serial No. 275,289
8 Claims. (Cl. 33—71)

3. A surveying instrument comprising a casing having a telescopic line of sight therethru, a self levelling stadia index bearing member pivotally mounted upon said casing in the line of sight of the observer looking thru the instrument disposed on a definite pivot axis, said stadia member having relatively spaced stadia surfaces of predetermined depth in the direction of the line of sight and disposed equally distance above and below the pivot axis of said member, said stadia surfaces being such that each of them provides a forward and a rearward stadia index edge spaced equal distances forwardly and rearwardly



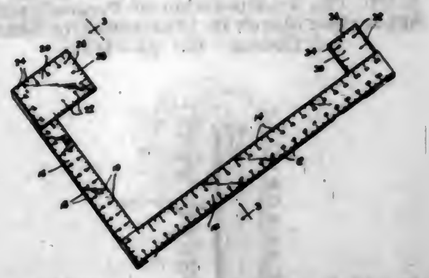
of a vertical plane thru the pivot axis of said member.

2,652,628
COMBINED LEVEL AND SQUARE
Johan Georg Jensen and Erling Johansen, Kristiansand, Norway
Application December 15, 1949, Serial No. 133,086
In Norway August 24, 1949
5 Claims. (Cl. 33—89)



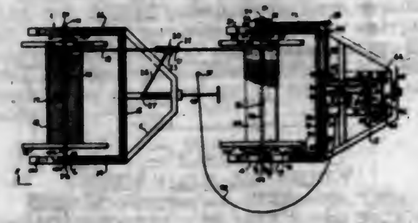
1. An instrument of the character described comprising two sections having inner ends toward each other, a ring between said sections, said sections being carried by said ring and one section revolvable on said ring, and a second ring within the first mentioned ring, said second ring being rotatable within the said first mentioned ring, and a level tube mounted in the said second ring and adapted to be aligned with either of said sections with said sections in any angle of rotation with respect to each other.

2,652,629
FRAMING SQUARE
Frederick W. Prucker, Jr., Stafford Springs, Conn.
Application April 1, 1953, Serial No. 279,759
2 Claims. (Cl. 33—112)



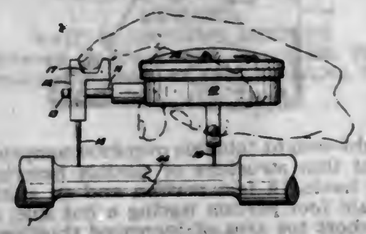
1. A framing square comprising a flat bar having longitudinally spaced indices on one side face thereof, a flat arm carried by said bar on the face thereof remote from the indices, said arm extending laterally from the bar in perpendicular relation thereto, said arm having longitudinally spaced indices on the face thereof adjacent the bar, a plate carried by the face of the arm having the indices, said plate projecting laterally from the arm in spaced parallel relation to the bar and having a notch opening through the end thereof remote from the arm, a second plate carried by the face of the bar remote from the indices, said second plate extending laterally from the bar in spaced parallel relation to the arm, and said second plate having a notch opening through the end thereof remote from the bar said first plate being shorter than said bar and said second plate being shorter than said arm.

2,652,630
WIRE AND CABLE REWINDER
Thomas K. Niland, Houston, Tex.
Application March 28, 1949, Serial No. 83,829
2 Claims. (Cl. 33—129)



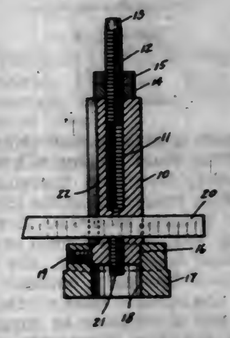
1. In a device for handling line as wire and cable, the combination of, a dolly, uprights thereon, bearing means movably mounted on said uprights to receive a cable drum shaft for rotation therein, means associated with said uprights for manipulation to move said bearing means up and down between a lower drum loading and an upper cable transferring position, a second dolly, other uprights thereon, other bearing means movably mounted on said other uprights to receive a reel shaft for rotation therein, means associated with said other uprights for manipulation to move said other bearing means up and down between a lower reel loading and an upper cable receiving position, a metering gauge adapted to receive, measure, and record the length of cable which may be passed therethrough from said cable drum to said reel, swivel means for mounting said gauge on at least one of said dollies for manipulation so that said cable winds evenly upon said reel, speed-controlled, power driven means on said second dolly for driving said reel, and means connected to, and adapted for manipulation to stop said power driven means.

2,652,631
ELONGATION INDICATOR
Joseph E. Mickseh, Ashtabula, Ohio, assignor to The Lake City Malleable Company, Cleveland, Ohio, a corporation of Ohio
Application March 15, 1951, Serial No. 215,820
4 Claims. (Cl. 33—147)



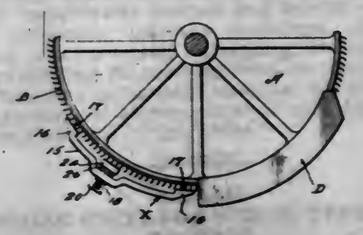
1. A direct reading per cent elongation indicator for use on test specimens having gauge marks spaced by a given initial distance, said indicator comprising a casing, a plunger slidably projecting from said casing, a dial and a pointer therefor mounted on said casing, step-up gearing in said casing connecting said plunger to said pointer, resilient friction means in said casing and engaging said plunger, a pointed probe fixed to said frame means for placement in one gauge mark, a pointed probe mounted on said plunger for placement in the other gauge mark, said dial being calibrated to read the percentage increase in probe spacing over the initial spacing.

2,652,632
GAUGE
Orin A. Fuller, Indianapolis, Ind.
Application May 26, 1951, Serial No. 228,436
3 Claims. (Cl. 33—170)



1. A gage comprising a cylindrical body having an axial bore internally threaded, an adjustable gaging screw threaded into said bore, a supporting base removably secured to the end of said body opposite said adjusting screw, and a cross member removably extending through said body at right angles thereto adjacent the removable base, the face of said member that is proximate to the free end of said screw being flat.

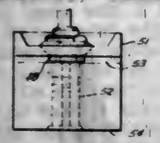
2,652,633
GAUGE MEANS FOR FITTING SCREENS TO CARD CYLINDERS
Olin S. Elliott, Greenville, S. C.
Application April 20, 1950, Serial No. 157,073
3 Claims. (Cl. 33—180)



1. Gauge means for checking the curvature of a screen of a carding machine with respect to the curvature of the applied clothing of the main cylinder of the machine, comprising two elongated elements of substantially the same length, laterally disposed and relatively long heads carried by the extremities of the elements, the outer faces of the heads being curved in a direction lengthwise of the elements, the curvatures of the two elements being of the same radius and substantially the same as the radius of the applied clothing, the arcuate faces of the heads of one element being on inbows and the arcuate faces of the heads of the second element being on outbows, blocks carried by the central portions of the elements at the same sides thereof as the heads, and means for moving each of the blocks toward or from its associated element, the outer face of each block being curved in a

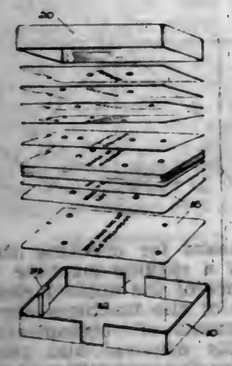
direction lengthwise of the associated elements on the same radius as the radii of heads and in the same direction of curvature.

2,652,634
PRESETTING DEVICE FOR CUTTING TOOLS
Howard R. De Vlieg, Grosse Pointe Woods, Mich.
Application October 7, 1949, Serial No. 120,129
8 Claims. (Cl. 33—185)



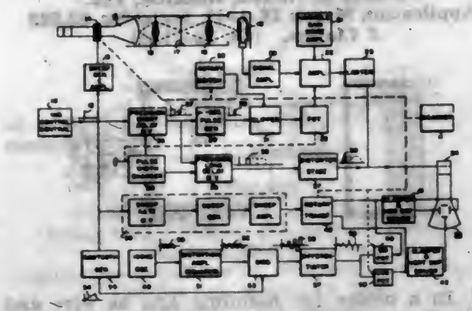
8. For use with a cutting unit characterized by a cutter-carrying body having a graduated dial adjusting member threaded thereon for adjustment axially with respect thereto including locking means for locking said dial member to said cutter-carrying body and wherein said dial member has a conical base surface, the combination of a setting block having a conical seating surface on which the conical base surface of the dial member is seated accurately to support the cutting unit in a position identically simulating a predetermined position of the cutting unit in a tool body, means on the setting block coacting with the cutter-carrying body to retain it against rotative movement with respect to said block, said dial member being rotatable on said seating surface to make minute accurate axial adjustments of the cutter-carrying body with respect to the block, and said block having means affording access to said locking means when said dial member engages said conical seating surface.

2,652,635
QUIZ CARD GAME
Emory R. Conger, Mendota, Calif.
Application July 23, 1952, Serial No. 300,420
2 Claims. (Cl. 35—9)



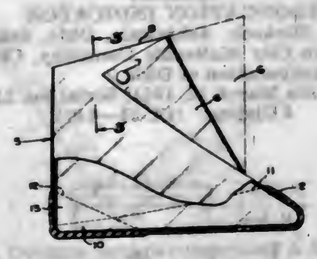
1. A game comprising a container having a bottom wall and four side walls, a stack of cards adapted to be positioned within said container, dots, holes and printed questions on one face of each card and answers on the opposite faces thereof, said dots and holes being arranged in different manner for each card, the holes of only one card being adapted to coincide with the dots of only one other card, the card having the holes which coincide with the dots of another card having the answer to the question of said other card printed on the undotted back thereof.

2,652,636
RADIO ECHO TRAINING SYSTEM
Raymond L. Garman, Pleasantville, N. Y., and Curtis R. Haupt, San Diego, Calif., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War
Application May 24, 1946, Serial No. 672,024
16 Claims. (Cl. 35—10.4)



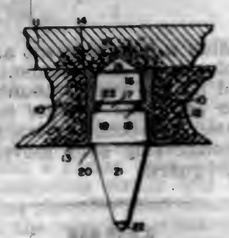
7. A radio echo training system comprising: means for scanning a terrain map so as to produce simulated ground echo signals, said scanning means including first plan position indicator means; second plan position indicator means; means for synchronizing the sweep circuits of said first and second indicator means; means for generating simulated target echo signals including multivibrator means adapted to be activated by said synchronizing means, means for varying the duration of the square wave output of said multivibrator means, and pulse producing means adapted to be triggered by the trailing edge of said square wave output; and means for combining said simulated target and ground echo signals upon the face of said second indicator means.

2,652,637
ONE-PIECE FOLDABLE OVERSHOE
Rena Bell Hardman, Los Angeles, Calif.
Continuation of application Serial No. 40,255, July 23, 1948. This application October 12, 1951, Serial No. 251,060
1 Claim. (Cl. 36—7.3)



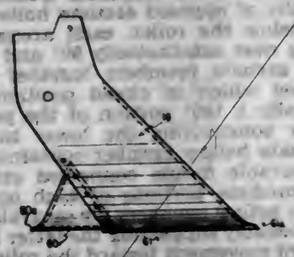
A light-weight foldable overshoe comprising an integral thin structure of flexible homogeneous plastic having a foot portion and an ankle portion, said foot portion having a flat sole, a relatively short toe area of increased thickness with the upper margin of said thickened area sloping substantially straight downwardly and rearwardly to the rear of the foot portion and extending integrally across the sole, a heel area on said foot portion of increased thickness with the upper margin of said thickened area sloping substantially straight downwardly and forwardly to the heel breastline of the sole and extending integrally across the sole, the walls of said heel being substantially vertical, said ankle portion extending upwardly from said foot portion in the shape of a tube and being adapted to be folded to slope inwardly to conform generally to the contour of said foot and ankle, the rear wall of said tube being a substantially vertical extension of the rear wall of said heel and the forward wall of said tube rising from a point rearwardly of the upper margin of said thickened toe area, said tube being of a diameter to readily admit a wearer's foot therethrough to fit snugly into said foot portion, the walls of said ankle portion being relatively thin to permit the same to be folded flat around said sole to form a substantially flat folded package adapted for carrying in a purse, and means on said ankle portion for securing the same in a closed position conforming generally to the contour of the ankle of the wearer.

2,652,638
SHOE CALK ASSEMBLY
John H. Shoemaker, Scappoose, Oreg.
Application February 23, 1952, Serial No. 273,110
2 Claims. (Cl. 36—59)



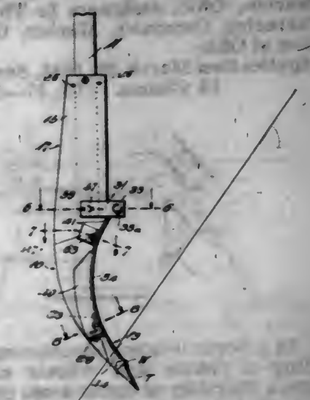
1. A shoe calk assembly comprising a tubular eyelet anchored in the shoe sole, said eyelet having been originally formed with a substantially cylindrical inner wall, a calk having a spike portion and a tapered shank portion, an annular groove extending around said shank portion intermediate its ends, the intersection of the wall of said groove and the adjacent periphery of the larger diameter part of said shank portion forming a sharp shoulder, the diameter of the small end of said shank portion being substantially equal to the original diameter of said inner wall of said eyelet, said shank portion of said calk positioned in said eyelet and said inner wall of said eyelet deformed to correspond to the contour of said shank portion with part of said eyelet wall filling said groove of said shank, whereby causing said calk to be firmly held by said eyelet.

2,652,639
EARTH DIGGING BUCKET
Edward H. Kluckhohn, Naperville, Ill.
Application December 11, 1947, Serial No. 791,028
4 Claims. (Cl. 37—2)



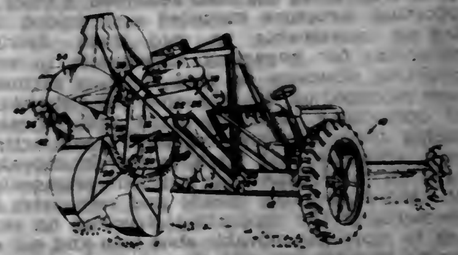
1. An earth digging bucket comprising a forwardly projecting bottom wall and connecting upwardly and rearwardly extending side walls defining open front and rear faces, the leading edges of said bottom and side walls being provided with earth-cutting knives, a rearwardly projecting apron carried by the trailing edge of said bottom wall, the trailing edge of said apron being provided with an earth-cutting knife, pivot attachments secured to said side walls, whereby said bucket may be pivotally mounted upon a support, and actuator attachments secured to said side walls, whereby said bucket may be readily tilted about said pivot attachments with respect to the support.

2,652,640
DETACHABLE TRENCH HOE SPADE
Vern L. Schield, Waverly, Iowa, assignor to Schield Bantam Company, Waverly, Iowa, a corporation of Iowa
Application December 10, 1948, Serial No. 64,595
9 Claims. (Cl. 37—103)



7. An earth handling or digging hoe consisting of prefabricated frame and blade assemblies, the frame assembly including upright side plates spaced transversely from each other and adapted to be secured to opposite sides of a dipper stick, a member fixedly secured to lower ends of said plates transversely thereof and having end portions projecting laterally therefrom, the blade having a transversely extending rib rigid with and projecting rearwardly from its rear surface, and fasteners detachably securing the projecting end portions of said member to said rib and to the rear surface of the blade.

2,652,641
DITCHING KNIFE FOR WHEEL-TYPE DITCH DIGGERS
Frank W. Zowaski, Wawayanda, N. Y.
Application April 2, 1948, Serial No. 18,541
2 Claims. (Cl. 37—141)



1. On an excavating wheel, a cutting attachment including a U-shaped cutting knife compris-

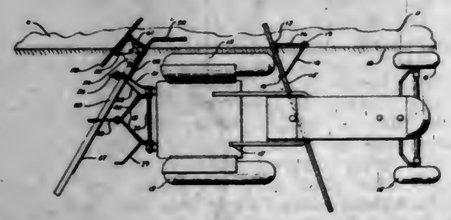
ing a pair of substantially parallel cutting arms and a web joining said arms at one set of ends, the other set of ends of said arms being secured to said excavating wheel, said arms having saw toothed cutting edges thereon, a bucket secured to said cutting knife and said excavating wheel and being disposed rearwardly of said cutting knife, said bucket being arcuately shaped and including sides and a bottom, one end of said bottom being secured to the web of said knife and the other end of said bottom being connected to said wheel rearwardly of said knife, the width of said bucket being less than the distance between said arms and the sides of said bucket converging toward one another from the rim of the wheel to the web.

2,652,642

SURFACE LEVELING APPARATUS

Clayton E. Gifford and Raymond W. Keeler, Marion, Ohio, assignors to The Huber Manufacturing Company, Marion, Ohio, a corporation of Ohio

Application March 30, 1948, Serial No. 17,934
13 Claims. (Cl. 37—155)



8. In a berm leveling mechanism, a vehicle including a frame and wheels supporting said frame, a plurality of upper arms pivotally mounted on said frame, extending rearwardly therefrom and spaced laterally one from the other, a plurality of lower arms pivotally mounted on said frame, extending rearwardly therefrom and spaced laterally one from the other, a leveling device extending transversely to said vehicle in the rear thereof, and two upright supporting members each connected with the corresponding upper and lower arms and with said leveling device, one of said supporting members extending rearwardly beyond the other supporting member, whereby said leveling device is supported in a position oblique to the line of movement of said vehicle.

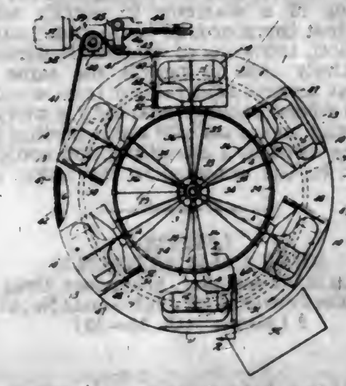
2,652,643

SAFETY CONTROL FOR MULTIPLE IRONING MACHINES

John H. Leef, Minneapolis, Minn.

Application February 15, 1950, Serial No. 144,342
8 Claims. (Cl. 38—5)

1. In a device of the class described, a track, a supporting structure mounted and guided for traveling movements on said track, driving mechanism for imparting movements to said supporting structure on said track, a garment ironer mounted on the said supporting structure and comprising relatively fixed and movable pressing shoes, relatively stationary cam-acting means adjacent said track, relatively movable means on said supporting structure engageable with said cam-acting means and responsive to movements of the supporting structure on said track to move the movable shoe into and out of pressing engagement with the relatively stationary shoe, a guard mounted on said supporting structure adjacent said ironer for swinging movements transversely of the direction of movement of said supporting structure into and out of the plane of the pressing surface of said relatively fixed shoe, and guard operating mechanism responsive to movement of said supporting structure on said track for imparting swinging movements to said guard, said guard operating mecha-



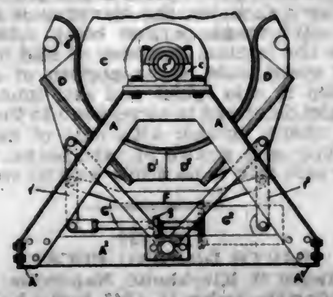
nism comprising a cam element and a cam follower element, one of said elements being moveably mounted on the track-mounted supporting structure and the other thereof being relatively fixedly mounted adjacent the track, and linkage operatively connecting said moveably mounted element to said guard.

2,652,644

FLATWORK IRONING MACHINE

Edward John Howlett, Edgware, England, assignor to Isaac Braithwaite & Son Engineers Limited, Kendal, England, a body corporate of Great Britain

Application March 3, 1949, Serial No. 79,335
In Great Britain April 7, 1948
9 Claims. (Cl. 38—54)



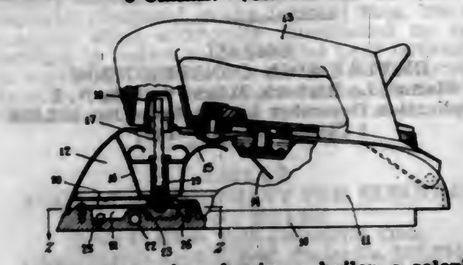
1. A flatwork ironing machine including in combination with a rotatable ironing roller, a set of pairs of opposed arcuate hollow members located below the roller, each arcuate member extending over substantially 90° and said set of pairs of arcuate members together forming a curved bed which in closed position envelopes substantially a 180° portion of the periphery of the roller constituting the lower half thereof, each arcuate hollow member containing a steam chest; operable means connected externally to the intermediate portions of each opposed pair of arcuate hollow members for separately mounting and rockably supporting the latter for upward and inward movement toward the roller and outward and downward movement therefrom, the force of gravity urging said arcuate hollow members to fall outwardly and downward away from the holler; means supplying said steam chests with heated steam; and operating means for bringing each pair of said arcuate members upwardly inward together and toward said roller against the action of the force of gravity and independently of the other pairs of arcuate members.

2,652,645

STEAM FLATIRON

Joseph Youhouse, Fairfield, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut

Application November 5, 1949, Serial No. 125,791
6 Claims. (Cl. 38—77)



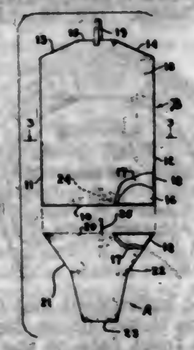
1. In a steam iron having a boiler, a soleplate under the boiler, an electric heating element between the boiler and the soleplate, a steam-collecting chamber, the floor of which is formed by the soleplate, a steam tube leading from the boiler and conducting steam and vapor to the steam-collecting chamber, and steam-escape passages through the soleplate communicating with the steam-collecting chamber and spaced from the outlet of said steam tube: the improvement which comprises the provision of a rough surface on at least the portion of the soleplate under the outlet of the steam tube, said rough surface comprising a plurality of peaks extending upwardly from and covering the floor of the steam-collecting chamber under the steam tube outlet, the distance between peaks being not substantially greater than the height of the peaks, said peaks breaking-up water particles entering the steam-collecting chamber and preventing the same from balling-up on contact with the hot soleplate and passing as droplets through said steam-escape openings.

2,652,646

IRONING BOARD

John C. Cave, Jr., Upper Darby, Pa.

Application August 25, 1949, Serial No. 112,291
1 Claim. (Cl. 38—136)



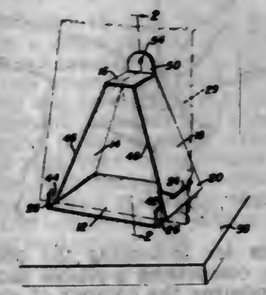
In an ironing board of the character described, a main body portion consisting of a central board, padding on opposite faces of said board, and a fabric casing enclosing said padding and board, said main body portion being defined by straight parallel side edges, a straight end edge, and another end edge including inclined side portions and a central straight portion, a fabric loop secured to said casing at the end edge having the inclined side portions, an auxiliary attachment constituting a continuation of said main body portion and having a straight end edge adapted to abut the straight end edge on said main body portion and broken side edges terminating in an end edge, and mains for detachably securing said auxiliary attachment to said main body portion.

2,652,647

CARDHOLDER

Mary Suciu, Festeria, Mich.

Application March 12, 1951, Serial No. 215,151
9 Claims. (Cl. 40—10)



1. An open front card holder comprising a support having a flat base provided with upstanding side panels, said panels having inclined edges which constitute a rest for a card, an integral web connecting said panels to one another at their upper ends, and stops carried by said base and located in advance of said side panels.

2,652,648

REARVIEW MIRROR CONSTRUCTION

Charles E. Merley, Detroit, Mich.

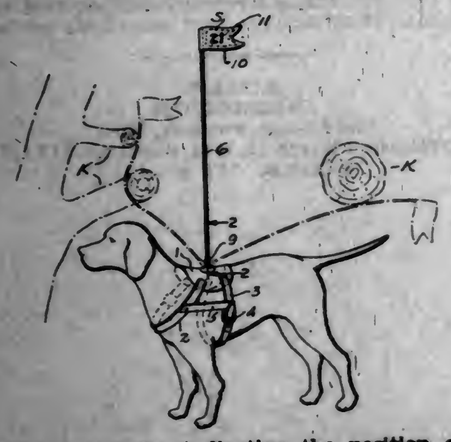
Application November 17, 1948, Serial No. 60,570
2 Claims. (Cl. 40—20)



2. A mirror supporting and backing construction including a hollow shell-like body having an aperture extending therethrough and a medallion member adapted to be supported upon the body in rotatable but substantially sealed engagement therewith, said medallion member having a closure portion adapted to bear against an outer surface of said body and a supporting portion projectable through the body including resilient holding means engageable with an inner portion of the body to urge said closure portion against said outer portion of the body, said resilient holding means comprising a transverse spring wire of generally S-shape when viewed as projected into a plane parallel to the medallion, having a central portion substantially parallel to the plane of the medallion, having integral inclined terminal camming portions forming a part of the projected S-shape but bent out of the plane of the central portion and lying in a plane substantially perpendicular to the

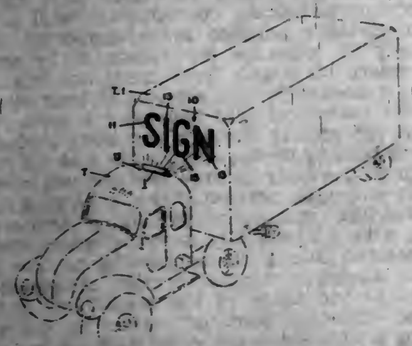
medallion and engageable with the aperture-defining parts of the body, and also having latching portions more nearly parallel with the central portion.

2,652,649
HUNTING DOG SIGNAL DEVICE
Herman W. Kebert, Doniphan, Mo.
Application January 28, 1952, Serial No. 268,589
2 Claims. (Cl. 40—129)



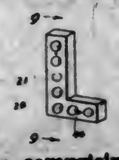
2. A device for indicating the position of a hunting dog, comprising a pliable saddle shaped for accommodating the contour of a dog's back, a harness for securing the saddle in place on the dog against inadvertent displacement, a short flexible upstanding receptacle-forming mounting member secured to the saddle and bendable from the vertical at its point of connection to the saddle, an elongated flexible staff detachably engaged at its lower end within the mounting member for extension upwardly therefrom, and a signal element mounted at the upper end of said staff, whereby said staff and mounting member will be jointly yieldable in all directions for ready freeing from obstructions.

2,652,650
APPARATUS FOR DISPLAYING SIGNS
Leroy J. Helms, Baltimore, Edward R. Easter, Anne Arundel County, and Elmer E. Reinig, Baltimore, Md., assignors to The Fluorescent Electric Manufacturing Company, a corporation of Maryland
Application August 7, 1947, Serial No. 766,982
1 Claim. (Cl. 40—129)



In an apparatus for displaying a sign on a trailer, said trailer being coupled at will to a tractor for being towed thereby, the combination of a sign disposed on the forward end of said trailer at an altitude sufficient to be observed over the top of said towing tractor, when said tractor is coupled to said trailer, for towing same, said sign being delineated by a mass of fluorescent pigments excitable by ultra-violet rays impinging thereon; an electric lamp mounted on the rear of the top of the cab of the tractor, and energized by a source of power on the tractor; and a filter associated with said lamp for passing invisible ultra-violet rays generated by said lamp, said lamp and filter being so disposed that, when said tractor and said trailer are connected for towing, the said rays impinge upon said sign.

2,652,651
DISPLAY SIGN CONSTRUCTION
Mannie La Barbera, Mount Vernon, N. Y.
Application December 9, 1949, Serial No. 132,038
1 Claim. (Cl. 40—130)



A display device comprising a molded plastic body respresenting a figure, letter or the like, said plastic body having a front face and a recessed rear face with convex raised portions and a plurality of transparent reflecting elements disposed in said plastic body at spaced locations therein, each of said reflecting elements having a rearwardly convexed reflecting wall portion spaced from the rear face of the plastic body and a rounded button-like portion integral with said reflecting wall portion and extending forwardly therefrom and outwardly beyond the front face of the plastic body and opposed laterally extending ear portions extending laterally outwardly from the periphery of the reflecting wall portion, each of said ear portions having rearwardly-extending projections projecting rearwardly a distance equal to the thickness of the material of the convex raised portion and surrounded by the plastic material, said reflecting element excepting for the button-like portion being wholly molded within the plastic body and securely held therein.

2,652,652
DIAL ORNAMENTATION
George A. Lasko, Toledo, Ohio
Application April 7, 1950, Serial No. 154,530
3 Claims. (Cl. 40—130)



1. In a molded instrument dial for automotive use adapted to be viewed under daylight wherein light enters the front face of the dial and also with artificial light wherein the light is projected into the edge of the dial, indicia molded into the rear face of the dial by polished mold elements to give a smooth transparent surface to the indicia, and a bright metallic deposit on the surface of the indicia such as provided in the vapor phase of the metal deposited to provide mirror surfaces for the indicia so as to appear as a raised element of highly polished metal when viewed in daylight, wherein the metal deposited on the forward face of the indicia substantially parallel to the front face of the dial forms a brilliant reflective surface for daylight to give the indicia a jewel-like appearance to an observer, said forward face of the indicia being outlined on all its edges by oblique surfaces of substantial area also metallized, positioned at approximately 45° angle to said forward face, which appear substantially darker to an observer in daylight compared to the forward face, but are adapted when artificially illuminated by edge lighting to reflect said artificial light outwardly to outline the indicia at the edges of the forward face in brilliant high light while the forward face is substantially dark.

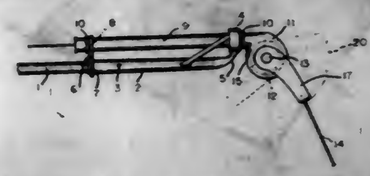
2,652,653
DISPLAY ATTACHMENT FOR ELECTRIC LIGHT BULBS
Dean C. Ober, East Cleveland, Ohio
Application April 1, 1952, Serial No. 279,770
8 Claims. (Cl. 41—10)



1. An attachment for electric light bulbs comprising a plurality of at least three blanks of sheet material, each blank having an opening midway between its lateral edges of a size and shape corresponding to the profile of a bulb of the kind wherewith the attachment is intended for use, said blank being folded along its vertical center to dispose its halves at an angle to each other, the blanks being assembled about an axis with the reverse surfaces of the halves of each blank in face contact, respectively, with the corresponding surfaces of halves of two other blanks and so that the openings of the blanks merge to provide a space for the reception of a bulb of the aforesaid kind, and means securing the blanks together in assembled condition and in fixed relation to one another.

2,652,654
FISHING ROD TIP
Clarence Edsten Bahn, Duluth, Minn.
Application September 4, 1951, Serial No. 244,984
1 Claim. (Cl. 43—24)

A tip for mounting on the end of a fishing pole to control the action of a fishing line comprising an elongated tubular socket member for connection to the forward free end of the fishing rod, an elongated tube in spaced, substantially-parallel relationship with and above said socket member and extending from a point adjacent the rear point of said socket member forwardly to a point forward of said forward end of the fishing rod, spaced upright mounting means mounted on and adjacent to each end of said socket member for supporting the ends of said elongated tube for axial rotation therein, a sheave carried on the forward end of said tube and having its periphery in substantially tangential relation to the axis of rotation of said tube whereby a fishing line extending through said tube will pass around said sheave, a pair of plate members extending laterally from said tube adjacent its forward end in substantially-parallel relation to each other to rotatably support said sheave, an elongated arm



pivotally mounted in said plate members for movement in a plane parallel with said sheave, and an eye at the opposite end of said arm through which said line extends, said arm being movable by the raising and lowering of said pole to insure proper relationship between said sheave and the line irrespective of the angle at which said pole is held, and said tube being rotatable by said arm whereby said sheave is constantly maintained in its desired operating alignment with the fishing line irrespective of lateral and vertical movement of said pole or line.

2,652,655
TRAP MECHANISM
James F. Fitzgerald, Detroit, Mich.
Application July 5, 1952, Serial No. 297,297
9 Claims. (Cl. 43—60)

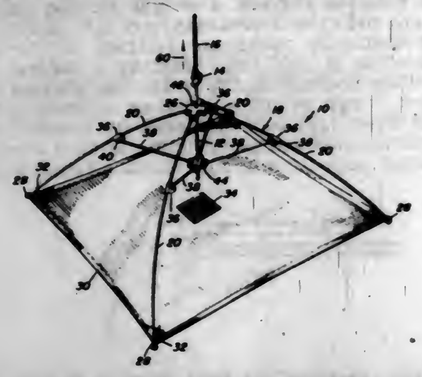


1. A small animal trap which comprises a coil spring, means for temporarily confining said coil spring in partial circular form having open ends defining an animal entrance, and a bait trip mechanism to release said confining means to allow the coil to snap to a closed circular form.

2,652,656
TRAP
Charles F. Glasser, Salladasburg, Pa.
Application March 10, 1949, Serial No. 80,684
1 Claim. (Cl. 43—105)

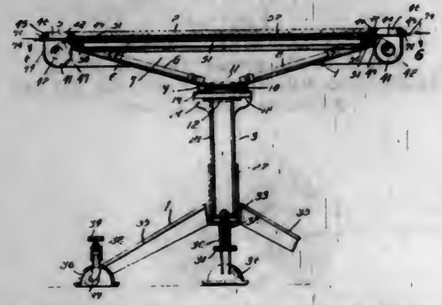
A minnow trap comprising an upright shaft, said shaft having an annular groove in the lower portion thereof, an upper bracket slidably positioned on said shaft, a set of resilient ribs pivotally attached at their upper ends to said upper bracket, a net attached to the lower ends of said ribs, a lower bracket rotatable and slidable on said shaft, a set of rods pivotally attached to said lower bracket and to intermediate portions of said ribs, and means extending through said upper bracket engaging said shaft lockingly vertically and adjustably securing said upper bracket to said shaft thereby flexing said resilient ribs under stress, the position of said upper bracket relative to said shaft determining the

amount of stress on said ribs, the stress on said ribs determining the speed of closure of said trap, and a spring pressed ball provided in said



lower bracket releasably engaging said shaft in said groove and releasably holding said net in a stretched position.

2,652,657
DRAFTING TABLE
Joseph F. Joy, Pittsburgh, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application February 17, 1948, Serial No. 8,953
4 Claims. (Cl. 45—131)



1. In a drafting table, the combination comprising a table top having a transparent top plate providing a plane working surface and a light source beneath said plate, separate roller shades coextensive with the sides of said top plate and located between said plate and said light source and adapted to be drawn at different distances toward the center of said working surface relative to said illuminated top plate for blocking out any desired portions thereof so that only the portion in use is exposed to the light source, and manually actuated means including operating elements located near and operable from the forward side of the table and operatively connected to said shades respectively for separately adjusting the latter.

2,652,658
MARIONETTE
Joseph Samuel Barkey, Brooklyn, N. Y.
Application June 30, 1950, Serial No. 171,504
2 Claims. (Cl. 46—126)

1. A marionette toy construction comprising an upper trunk member formed of stiff sheet material bent near the middle thereof to provide a transverse shoulder portion at the bend thereof and an empty hollow chest, the ends of the stiff sheet material being joined together below the shoulder portion, a lower trunk member smaller than the upper trunk member and formed of similar material similarly bent and joined at its ends, means for flexibly connecting the lower trunk member to the lower end of the upper trunk member, an elongated flexible member connected to and extending transversely of the shoulder portion and having its ends extending outwardly from the respective opposite sides thereof to provide upper arm portions, lower arm members respectively flexibly



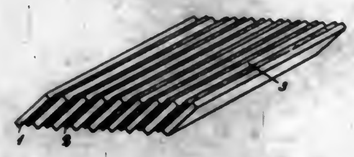
connected to the respective arm portions, a second elongated flexible member connected to and extending transversely of the lower end of the lower trunk member and having its ends extending outwardly from the respective opposite sides thereof to provide upper leg portions, combined lower leg and foot assemblies respectively connected to the respective lower leg portions, a head flexibly connected to the shoulder portion of the upper trunk member, and control handle frame means having strings depending therefrom and respectively connected to the head, lower arm and leg portions.

2,652,659
GLASS CUTTER
Arthur T. Fletcher, Bristol, Conn., assignor to The Fletcher-Terry Company, Forestville, Conn., a corporation of Connecticut
Application October 27, 1950, Serial No. 192,438
2 Claims. (Cl. 49—52)



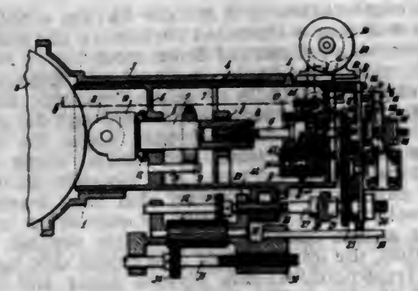
2. For a glass cutting device, a cutting wheel unit including a holder constructed of an elongated blank of flat sheet metal having straight parallel sides and spaced projections extending from one end thereof, the said projections being rolled into closed loops and thereby forming bearings with an opening extending therethrough, a cutting wheel positioned between said bearings, and an axle rotatable and slidable in said opening and extending through said wheel and rotatably mounting said wheel to the holder; the edges of the opposite ends of said opening being constricted to retain the axle within said opening.

2,652,660
METHOD OF PRODUCING LAMINATED SHEETS OF GLASS
Fredrik Wilhelm Anton Kurz, Nybro, Sweden
Application February 20, 1951, Serial No. 211,930
In Sweden February 22, 1950
7 Claims. (Cl. 49—79)



1. A method of producing a laminated sheet of glass comprising the steps of first forming a preliminary sheet of glass having a greater thickness than is desired for the finished sheet and composed of a plurality of elongated glass strips disposed side to side at an angle to the face planes of the preliminary sheet and fused together with substantially the entire areas of their abutting sides, heating the preliminary sheet until sufficiently softened for drawing, and drawing the preliminary sheet in the longitudinal direction of the strips until the sheet is reduced to the thickness desired for the finished sheet.

2,652,661
CRUSH DRESSING MECHANISM
Ernest V. Flanders and Carrell H. Drury, Springfield, Vt., assignors to Jones & Lamson Machine Company, Springfield, Vt., a corporation of Vermont
Continuation of application Serial No. 686,470, July 26, 1946. This application January 22, 1953, Serial No. 332,706
11 Claims. (Cl. 51—5)



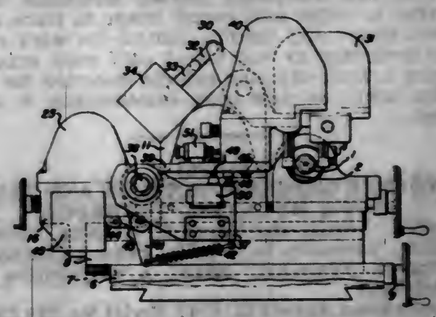
1. In combination with the rotary grinding wheel of a grinding machine, a wheel truing mechanism comprising a crushing roll, means supporting said roll on said machine for rotation about an axis substantially parallel to that of said wheel and for motion toward and from said wheel, a fluid pressure motor connected to said roll for moving said roll aganist said wheel and there holding it under pressure from said fluid, said motor having a continuously open bleeder port for the escape of fluid under pressure therefrom, means biasing said roll to a position retracted from said wheel, a source of fluid, a fluid conductor circuit between said source and motor, a pump in said conductor circuit for pumping fluid from said source to said motor, and means connected thereto for controlling the operation of said pump.

2,652,662
BLAST CLEANING
Frank Newell, Chicago, Ill., assignor to Pangborn Corporation, Hagerstown, Md., a corporation of Maryland
Application November 2, 1950, Serial No. 193,903
3 Claims. (Cl. 51—12)



3. A pressure blast machine for projecting a stream of soft abrasive particles, said machine comprising a tank for receiving and storing a quantity of said particles, the bottom portion of said tank forming a hopper in free communication with the upper portion of the tank and terminating in an outlet through which it moves said particles, a mixing chamber secured to said outlet for receiving said moved particles, said mixing chamber having a supply line opening therein for receiving a stream of fluid, under pressure, to impart a projecting force upon the particles received by the chamber, and a discharge opening for directing said particles and said stream of fluid, tank pressurizing structure connected for introducing fluid under pressure into said tank, said structure including agitating means within said tank for discharging at least one stream of fluid under pressure into said hopper to agitate the particles therein, and a pressure regulating valve connected in said line to hold substantially fixed the projection-imparting pressure and maintain it below the pressure at which fluid is introduced into the tank, to assure that the particles are uniformly discharged and do not jam in the bottom of the hopper.

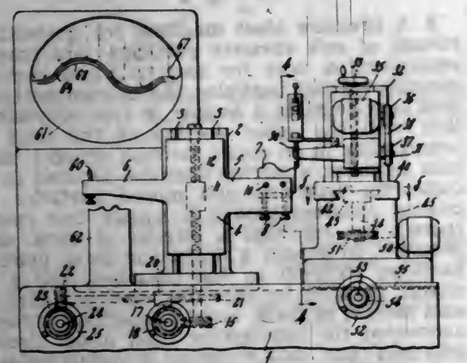
2,652,663
METHOD AND APPARATUS FOR COMPENSATING FOR GRINDING WHEEL WEAR
Edward C. Taylor, Hartford, Vt., assignor to Van Norman Company, Springfield, Mass., a corporation of Massachusetts
Application August 28, 1948, Serial No. 46,633
7 Claims. (Cl. 51—165)



1. A grinding machine comprising a grinding wheel support, means for moving the support to a fixed terminal position on each grinding cycle, a grinding wheel rotatably mounted on the support, a first gauge having a fixed position on the support, a second gauge slidable on the support, means for moving the grinding wheel and the

second gauge forwardly in unison until the forward side of the wheel contacts the first gauge, and means for then moving the second gauge and the wheel forwardly at a two to one ratio of speeds until the second gauge contacts the rear side of the wheel.

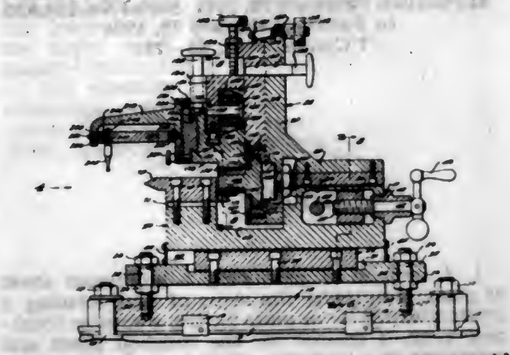
2,652,664
OPERATOR-CONTROLLED GRINDING MACHINE WITH OPTICAL COMPARATOR
James A. Allan, Springfield, Vt., and Francis C. Savage, Columbia, Conn., assignors to Jones & Lamson Machine Company, Springfield, Vt., a corporation of Vermont
Application April 18, 1952, Serial No. 283,066
4 Claims. (Cl. 51—165)



3. In combination, a work support, a grinding wheel support, a rotary grinding wheel carried by said grinding wheel support, means for rotating said grinding wheel, means mounting one of said supports for motion in a plane in either or both of a pair of angularly related directions to cause said grinding wheel to generate a contour on a work piece carried by said work support, means supplying coolant to said wheel and work piece, a target remote from the engagement between said wheel and work and connected to said movable support to partake of the movement of said movable support, a screen, an optical system arranged to project a magnified image of at least a portion of said target onto said screen transverse to said plane, said screen having an image thereon of the same scale as said target image, and means for moving said movable support in said angularly related directions in a manner to cause said target image to trace said screen image and thereby control the work contour generated by said wheel, said work support having a work-carrying spindle mounted for rotation about an axis lying substantially in said plane.

2,652,665
INVOLUTE CHECKING FIXTURE AND TAILSTOCK MOUNTING THEREFOR
James L. Jessup and Harry H. Gotberg, Detroit, Mich., assignors to Colonial Broach Company, Warren Township, Mich., a corporation of Delaware
Application August 22, 1947, Serial No. 770,132
6 Claims. (Cl. 51—165)

6. In combination, a tailstock for a grinding machine, a center rigidly secured to said tailstock, said tailstock having a flat surface fixed relative to said center, a detachable involute tooth checking fixture mounted on said tailstock flat surface, said fixture including a member having a flat surface engaging said tailstock flat surface, a roller element having an outside diameter equal to that of the base circle on which the involute teeth of the member are registered, means



connected with said fixture for supporting said roller element in axial alignment with said center, a tangent bar supported and adapted to roll on said roller element, a pointer, and means mounting said pointer on said tangent bar.

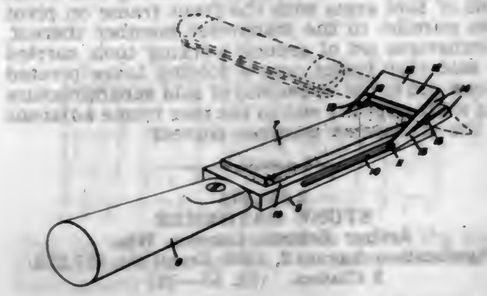
2,652,666
DRUM SANDER
Thomas Longbotham, Portland, Oreg.
Application May 1, 1951, Serial No. 223,997
1 Claim. (Cl. 51—194)



The combination of a spindle having a collar at one end and a threaded section at the other end thereof, a cylindrical drum mounted on said spindle, said drum having a closed side engaging said collar, the middle of said closed side constituting a hub through which said spindle extends, said drum being divided along its diameter into two sections and hinged along its cylindrical outer surface, the division in its closed side extending around said hub, leaving all of said hub in one portion of said drum and leaving a hub opening in the other portion of said drum, the inner face of said closed side having a frusto-conical hub divided along the diameter of said drum, a clamping cone on said frusto-conical hub having a central opening for said spindle and a nut on said spindle engaging said clamping cone and forcing said closed drum side against said spindle collar, the ends of said drum opposite its hinge having pins projecting from their engaging faces for fastening abrasive strips thereto, and a resilient cover for the cylindrical surface of said drum.

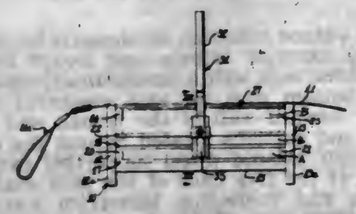
2,652,667
KNIFE SHARPENER
Claude D. Arnold, Iraan, Tex.
Application November 6, 1952, Serial No. 319,018
2 Claims. (Cl. 51—214)

1. A knife sharpener comprising the combination of a base having a hone block supported thereon, and a knife blade holder slidably and pivotally carried by the base for reversing the blade on the hone block, said blade holder being of substantially U-shape and straddling the hone block and including a pair of V-shaped legs positioned at opposite sides of the hone and pivoted



to the base, said legs forming a V-shaped slot at their free ends to support the blade at a predetermined angle with respect to the hone during forward and backward movement of the blade holder.

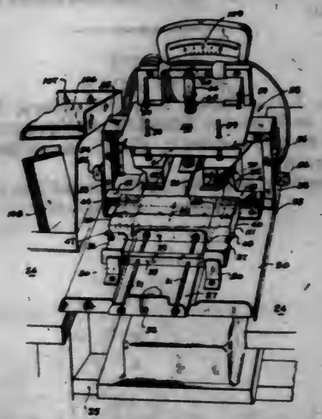
2,652,668
CONDITIONING CUTLERY SHARPENER
Cruz C. Renteria, Chicago, Ill.
Application April 12, 1952, Serial No. 282,063
8 Claims. (Cl. 51—276)



1. A device of the class described comprising an insulator frame, a flat conductor table-top therefor, a plurality of insulator guideways in said frame engaging said table-top, a reciprocatable insulator carriage adapted to rubbingly engage a strop or the like to be conditioned mounted on said table-top, and insulator guide arms for said carriage slidably mounted in said guideways for electrostatic generation during carriage reciprocation.

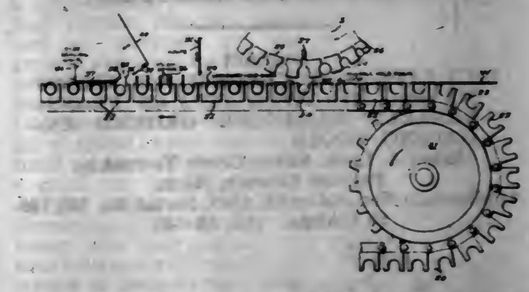
2,652,669
PACKAGING TABLE-READY MEATS
Harry G. Heitz, Oak Lawn, Ill., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois
Application April 8, 1952, Serial No. 281,135
3 Claims. (Cl. 53—74)

1. A device for use in preparing wrapped packages of product of a given size, said device including a base plate having an elongated slot therein, a pusher member supported on said plate for movement in a given direction to push packages through the device to fold the ends of the wrappings about said packages, said member having a guide member extending into said slot to restrain said pusher to a path of movement defined by said slot, said pusher member having a pusher plate at the forward end thereof, track means on said pusher member disposed to the rear of said pusher plate, a cross bar engaging said track means, a pair of bifurcated fingers, said fingers being attached to opposite ends of said bar with the fingers extending forwardly from said bar about parallel to said plate, a second pair of fingers mounted on said plate, said fingers being on opposite sides of said slot in a position to be received within the bifurcations of said first pair of fingers as said first fingers move in said direction, and two pairs of plows positioned beyond said second fingers with respect to said direction of movement, one of said pairs of plows being turned downwardly and one of



said pairs being turned upwardly, said upwardly turned plows being attached to said plate, said downwardly turned plows being supported above said plate and resiliently urged toward said plate, said downwardly turned plows including a pressure shoe to ride on the top of the packages passing thereunder, said shoe having an upwardly turned entering edge, the plows of each of said pairs being spaced at opposite sides of said slot.

2,652,670
WRAPPING AND SEALING MACHINE FOR TAMPONS
John A. Carrier, Lexington, Mass., assignor to Sanitary Products Corporation, Taneytown, Md., a corporation of Illinois
Application November 20, 1950, Serial No. 196,617
3 Claims. (Cl. 53—134)



1. In an apparatus for packaging individual articles of substantially cylindrical form, a conveyor having step by step movement past an article supply point and provided with individual article receiving pockets spaced apart longitudinally thereof, a web of wrapper material disposed along and over the conveyor past the supply point, web severing means spaced beyond the supply point and operative through the spaces between said pockets during rest intervals between step movements of the conveyor to divide said web into individual wrapper blanks, means at the supply point operative during rest intervals of the conveyor to press articles serially against the web to carry it with the articles into said

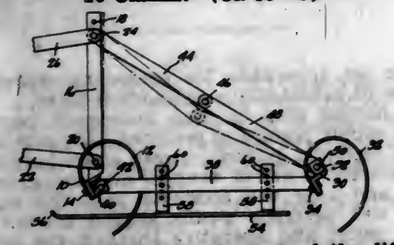
pockets, a movable hold down plate overlying the conveyor and web in advance of the supply point and reciprocable coincident with step movement of the conveyor to travel over and across each article-filled pocket as it leaves the supply point, and a stationary hold down plate overlying the conveyor and web from a point closely adjacent the limit of advance of the reciprocable hold down plate to a point closely adjacent the severing means.

2,652,671
BIT HOLDER
Peter G. J. Griffiths, San Francisco, Calif., assignor to Winalet Bloodstock Equipment Company, San Francisco, Calif., a corporation of California
Application May 10, 1950, Serial No. 161,043
4 Claims. (Cl. 54—6)



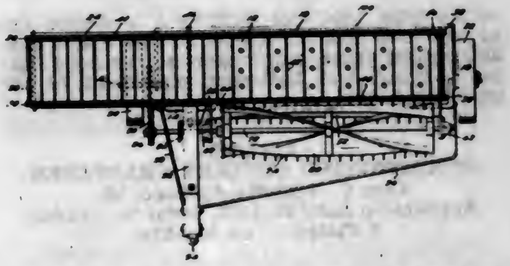
4. A bit holder comprising a Y-shaped resilient support wherein each arm of the said support terminates in an enlarged lobular excrescence having therein a substantially centrally located aperture and a slit leading therefrom, said lobular excrescence being adapted for positioning adjacent the inner portion of a horse's mouth and the aperture and slit providing an opening through which the end of the bit may be passed and which serves also to fasten and locate the ends of the bit and thereby support the bit within the horse's mouth, and wherein the leg of the Y is adapted for securement to the head piece of the horse's bridle thereby to secure the bit in desired position high in the horse's mouth.

2,652,672
LIFT TYPE AGRICULTURAL IMPLEMENT HAVING MULTIPLE SETS OF TRANSVERSELY ARRANGED GROUND ENGAGING TOOLS
Jabez A. Love, Silver Creek Township, Berrien County, Mich.
Application November 29, 1947, Serial No. 788,780
10 Claims. (Cl. 55—3)



1. An agricultural implement of the lift type adapted for connection with a lift hitch, comprising a rigid front frame having a transverse member and a superstructure fixed on and positioned above said transverse member, a plurality of spaced attachment members carried by said frame and including at least one carried by said superstructure, a transverse set of ground working tools carried by said frame, a rigid rear frame having a transverse member and a plurality of longitudinal arms, pivots connecting the front ends of said arms with the front frame on pivot axes parallel to the transverse member thereof, a transverse set of ground working tools carried by said rear frame, and a folding brace pivoted at one end to the upper end of said superstructure and at its opposite end to the rear frame adjacent to the transverse member thereof.

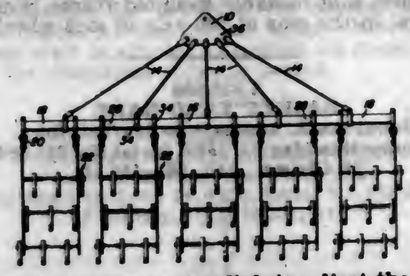
2,652,673
STONE GATHERER
Arthur Zehren, Lomira, Wis.
Application August 2, 1950, Serial No. 177,278
3 Claims. (Cl. 55—17)



1. In a stone gatherer, an elongate horizontally disposed conveyor trough, said trough having a longitudinal back wall, a longitudinal forward wall and a bottom wall, an axle supported parallel to said forward wall of the trough and having angled end portions located beyond the ends of the trough, ground wheel supporting extensions formed at the free ends of the said angled end portions and projecting therefrom away from the adjacent ends of the trough in a plane parallel to the axle, a second trough having a bottom and extending obliquely upward and outward from one end of the first trough, an endless conveyor looped longitudinally about the bottoms of the troughs, an apron sloping outwardly and downwardly from the top edge of the said forward wall of the first trough, a gathering reel supported in advance of the said forward wall of the first trough and adapted to move stones upwardly across the apron for deposit on the conveyor, drive means operatively connected with one of the ground wheels for imparting motion to the conveyor and the reel, and a draft connection extending forwardly from the said one end of the first trough.

2,652,674
HARROW DRAWBAR
Bernt Lee, Viborg, S. Dak.
Application November 13, 1950, Serial No. 195,296
1 Claim. (Cl. 55—84)

A harrow drawbar comprising a tubular cross-beam, a cross-beam extension having a conical terminal oscillatably and detachably received in an end of said cross-beam, a draft plate, means connecting said cross-beam and extension to said draft plate, said draft plate including a horizontally disposed triangular plate having an apertured apex for attachment to a draft implement and a base disposed parallel to said cross-beam, a series of laterally displaced, vertical apertures in said draft plate for receiving said connecting means, said connecting means comprising a plurality of links connecting said draft plate to said cross-beam, and a single link connecting each extension to said draft plate, said draft plate having a plurality of longitudinally spaced aper-



tures for each extension link to adjust the horizontal angularity of the extensions relative to said cross-beam.

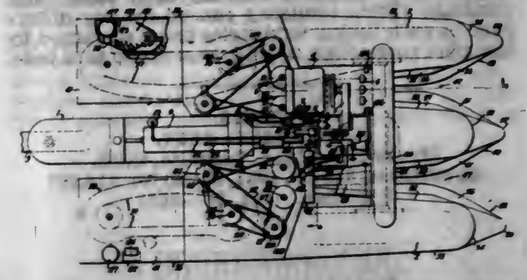
2,652,675
GRAIN CUTTING AND WINDROW FORMING IMPLEMENT
John L. Hughes and Arthur R. Hyatt, Blandinsville, Ill.
Application August 15, 1950, Serial No. 179,612
3 Claims. (Cl. 56—23)



1. In an agricultural implement, the combination which comprises a horizontally disposed rectangular shaped frame, a cutter bar mounted on the forward edge of the frame, a conveyor having an apron trained over pulleys journaled in the frame and positioned to receive grain cut by the cutter bar, said conveyor positioned to convey grain cut by the cutter bar to one side of the implement for forming a windrow at the end of the cutter bar, a plurality of side beams positioned to be mounted on opposite sides of a tractor on the outer ends of which the said cutter bar and frame are carried, a reel journaled on the leading edge of the frame and positioned above the cutter bar, bearings extended upwardly from the trailing edge of the frame, links positioned at the ends of the frame, pivotally mounted in the upper ends of said bearings and pivotally connected to the reel providing a vertically swinging mounting for the reel, a truck mounted on wheels and having an inverted U-shape section therein through which the said side beams extend, hydraulic cylinders providing elevating means in the truck for adjusting the elevation of the frame and cutter bar, and means for reciprocating the cutter bar, actuating the conveyor and rotating the reel from the power take off of the tractor.

2,652,676
COTTON-PICKING MACHINE
Mack D. Rust, Coalinga, Calif.
Application May 16, 1950, Serial No. 162,165
35 Claims. (Cl. 56—42)

1. In combination with a cotton picking machine wherein rotatable cotton picking spindles are employed and the plants caused to pass through means providing a picking zone into which the spindles extend, means providing a passage adjacent the entrant end of said zone for entrance of a plant and for passing the plants to the picking zone, and cotton fluffing means



disposed adjacent said passage to engage plants passing through the same in advance of contact of the plants with the picking spindles.

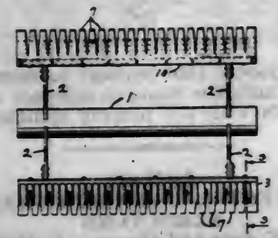
2,652,677
HARVESTER-THRESHER FRAME STRUCTURE
Norman R. Krause and Sherman C. Heth, Racine, Wis., assignors to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Continuation of application Serial No. 438,014, April 7, 1942. This application December 11, 1948, Serial No. 64,822
3 Claims. (Cl. 56—123)



1. In a harvester-thresher the combination of a substantially rectangular, uniplanar horizontal base portion disposed transversely to the direction of progress of the harvester-thresher, ground engaging supports at the ends of said base portion in supporting relation thereto, a drawbar substantially coplanar with, rigidly fixed to, and substantially normal to said base, a plurality of spaced apart substantially vertical columns fixed on and extending upwardly from said base, a grain bin in engagement with and supported on the upper extremities of said columns, a threshing cylinder and cleaning fan disposed between said base portion and said grain bin and also between said spaced-apart columns, and supported at least in part from said columns, a generally forwardly and downwardly inclined feeder house and harvester part hinged to certain of said columns at a location above said base, means on said base pressing forwardly against said harvester part and reacting backwardly against said base to maintain said feeder house and harvester part against downward and rearward swinging, said harvester part tending to cause forward tilting of said base and upstanding columns, and a separator housing portion fixed to others of said columns and extending rearwardly therefrom in cantilever relation tending to cause rearward tilting of said base and upstanding columns, said separator housing and said feeder house and harvester part being so proportioned and posi-

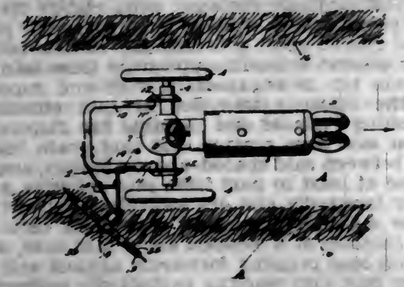
tioned that the tendency of the one to cause rearward tilting, and the tendency of the other to cause forward tilting of said base and upstanding columns, substantially balance each other, any resultant tilting tendency caused by any difference in such tilting tendencies being sustained by the rigid connection of said drawbar to said base.

2,652,678
GATHERING REEL
Henry Ramacher, Vallecito, Calif.
Application April 3, 1951, Serial No. 218,997
2 Claims. (Cl. 56—328)



1. In a fruit or nut harvester, a cylindrical sleeve, a pick-up reel assembly mounted on said sleeve and including a plurality of radially extending arms spaced inwardly from the ends of said reel, each of said arms having a plurality of openings therein a forwardly extending lifting finger projecting from the outer end of each of said arms, a mounting plate connected to each of said arms and provided with a plurality of spaced openings therein which register with the aforementioned openings in said arms, securing elements extending through said registering openings for maintaining said mounting plates immobile in their adjusted positions, and a flexible finger connected to each of said mounting plates and arranged angularly with respect to said lifting fingers.

2,652,679
WINDROW TURNING APPARATUS
Norman R. Krause, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application February 26, 1948, Serial No. 11,085
14 Claims. (Cl. 56—372)



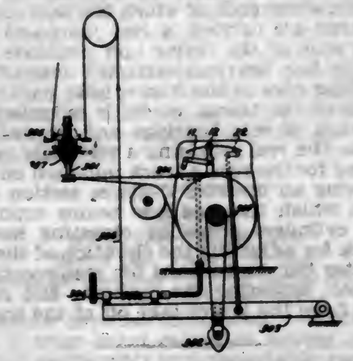
1. For combination with a power vehicle having a pair of coaxial laterally spaced rear drive wheels, a windrow turner comprising a frame having hinge means for rockably mounting it on said vehicle to swing about an axis extending transversely with respect to the line of travel of the vehicle substantially parallel to the axis of said pair of wheels and fixed with respect to the axis of the coaxial wheels, and a circular windrow turning wheel rotatably mounted on said rockably mounted frame and supporting its swinging end and rotatable by peripheral engagement with the ground or an engaged windrow for turning the windrow, said rockably mounted frame lying in general in the rear of the axis of said wheels.

2,652,680
BASKET YARD RAKE
Johathan A. Adams, New Market, Iowa
Application May 23, 1951, Serial No. 227,864
12 Claims. (Cl. 56—400.11)



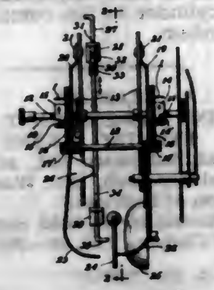
1. A basket rake comprising a receptacle having a filling and discharge opening, a toothed rake blade secured to a wall of said receptacle at the edge of said opening, a handle secured to said receptacle, a movable gate for said opening secured to said receptacle and movable into engagement with said rake blade for closing said opening.

2,652,681
ARRANGEMENT IN SPINNING REGULATORS
Arvid Janeš and Albert Sand, Vasteras, Sweden, assignors to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation
Application February 25, 1949, Serial No. 78,278
In Czechoslovakia October 27, 1948
2 Claims. (Cl. 57—95)



1. Arrangement in spinning regulators for electrically driven ring spinning machines, comprising a speed regulating device for a driving motor, a ring rail having an up and down movement, a wing adapted to oscillate in accordance with the up and down movements of the ring rail, a curved slot in said wing, a guiding piece connected with the said speed regulating device, means imparting stepwise movement to the ring rail, and a guide screw rotatable by said means and adapted to move said guiding piece within said slot, said guide screw being provided with screw threads of different pitches, the major pitch serving for actuating the control of the initial speed of the driving motor whereas the minor pitch is adapted to control the speed during the remaining spinning period.

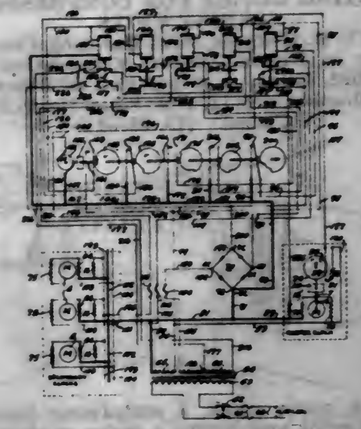
2,652,682
DOUBLE ALARM MECHANISM
John Weibarst, New York, N. Y.
Application April 19, 1950, Serial No. 156,817
6 Claims. (Cl. 58—21.11)



1. In a double alarm structure for clocks and the like, a hand-operated alarm-setting shaft, a pair of cam elements adapted to be simultaneously rotated about and being slidable in opposite directions upon the shaft and having oppositely disposed cam surfaces in the form of notches offset to one another at a predetermined arc corresponding to a desired time interval, a pair of detents, one for each cam element, fixedly mounted with the shaft in alignment with each other and being adapted to become periodically engaged by the offset notches of their respective cam elements, a pair of resilient members, one for each cam element, tensionally engaging said elements and normally urging them outwardly and toward their respective detents so that when their respective notches become positioned opposite said detents, the cam elements are freed to slide upon the shaft toward the detents as the latter become engaged by said notches, that movement of the cam elements releasing said spring members to move in the direction toward the detents; an alarm sounder; said spring members being adapted to control the operation of the alarm sounder; a hand-operable member movable to several positions relative to at least one of the spring members and having means for retaining it in these positions, incluuding an end position, and being also adapted, when moved to at least one of its positions, to control, by way of at least one of the spring members, the operation of the alarm sounder, and to bring to a final stop the latter's operation when moved to its end position.

2,652,683
MASTER CLOCK SYSTEM
Lewis J. Stern, Adrian, Mich., assignor to Sperti Faraday, Inc., Adrian, Mich., a corperation of Ohio
Application November 15, 1948, Serial No. 60,135
8 Claims. (Cl. 58—35)

1. In a system for synchronizing at predetermined intervals a secondary electric clock with a master clock said secondary clock having a time disclosing movement, said secondary clock being operated by an alternating current synchronous motor having a field winding, said system comprising: an alternating current source, two direct current sources of different voltage, and three conductors connecting said clocks and sources, one pair of said three conductors conducting selectively the alternating current from said source for said motors and one voltage of said direct currents, another pair of said three conductors conducting the other voltage of said direct currents, means in said secondary clock to



stop its time-disclosing movement, means controlled by one of said direct currents adapted to speed up the movement of said secondary clock, and means controlled by the other of said direct currents for releasing said stop means including an electromagnetic coil in series with said field winding of each of said secondary clock motors, and means in said master clock for controlling said direct current controlled means at said predetermined intervals.

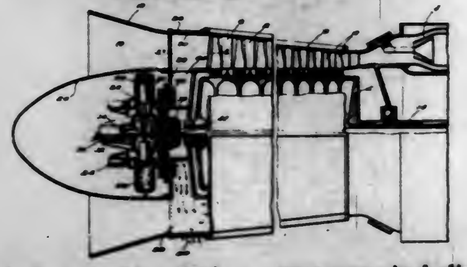
2,652,684
LEVER WOUND TIMEPIECE
Georges Bridevaux, Tavannes, Switzerland, assignor to Tavannes Watch Co. S. A., Tavannes, Switzerland, a firm of Switzerland
Application March 18, 1952, Serial No. 277,131
In Switzerland June 20, 1950
2 Claims. (Cl. 58—81)



1. In a clock, the combination of a plate, a dial on one side thereof, a clockwork secured to the other side of the plate, a driving spring, a rotatable shaft rigid with one end of said spring and controlling the clockwork, a lever pivotally secured to the surface of the plate carrying the clockwork, means through which the lever controls the rotation of the shaft in the spring winding-up direction, said spring urging the lever back into its original position when released into operativeness, a casing capping the clockwork, the spring and the inner end of the lever and provided with an arcuate opening in a plane parallel to the plate for the passage therethrough of the outer hand-operated end of the lever, an

annulus registering with said opening, rigid with the lever, coaxial with the pivotal axis thereof, and including a flange along its edge facing the plate, a plurality of rollers rotatably carried by the clock plate and engaging the annulus flange through the side remote from the plate to hold said annulus in position over the plate.

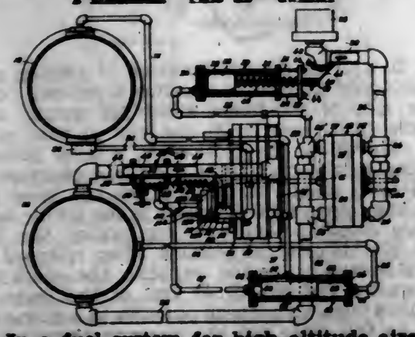
2,652,685
STARTING DEVICE FOR COMPRESSOR-TURBINE UNITS
Andrew V. D. Willgoss, West Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application May 13, 1948, Serial No. 26,873
7 Claims. (Cl. 60—11)



2. In a power plant, a compressor including a bladed rotor and having a series of stationary hollow vanes at its inlet end arranged for imparting a tangential motion to the inlet air, a reciprocating engine for driving the compressor rotor, means for discharging exhaust gas from the engine through said hollow vanes, each of said vanes having an opening defined by and extending along the trailing edge thereof and through which exhaust gas is discharged from within said vanes into the airstream entering the compressor, said trailing edge openings directing said exhaust gas against said bladed rotor to cause turning of the rotor.

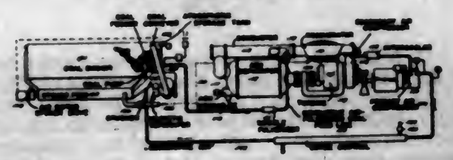
6. In a gas turbine power plant including a compressor and turbine, each having a rotor, and a burner in which air from the compressor is heated before it reaches the turbine, the steps which involve spinning the rotors from an internal combustion engine after shut down of the power plant and simultaneously admitting exhaust gas from the engine to the compressor inlet.

2,652,686
FUEL SYSTEM FOR AIRCRAFT PROPULSION MEANS
John Johnson, Spokane, Wash.
Application June 10, 1949, Serial No. 98,372
4 Claims. (Cl. 60—39.28)



1. In a fuel system for high altitude aircraft, an explosive fuel actuated motor, a fuel tank, a compressed air tank, an air pump for supplying and maintaining air under pressure to said air tank, an air duct leading from said air tank to said motor, a carburetor interposed in said duct, a fuel pump for delivering fuel from said fuel tank to said carburetor under pressure, a fuel pressure governor comprising a cylinder closed at both ends, a piston in said cylinder, a duct connecting one end of said cylinder to the delivery side of said fuel pump, a longitudinally disposed tapered port in the wall of said cylinder increasing in cross-sectional area from the fuel end of said cylinder toward the opposite end, a duct extending from said tapered port to said fuel tank, and a duct connecting the opposite end of said cylinder to the compressed air portion of said system.

2,652,687
GAS TURBINE POWER PLANT SOLID FUEL FEEDING MEANS
John I. Yellott, Baltimore, Md., assignor to Bituminous Coal Research, Inc., Washington, D. C., a corporation of Delaware
Application November 30, 1949, Serial No. 130,215
17 Claims. (Cl. 60—39.46)

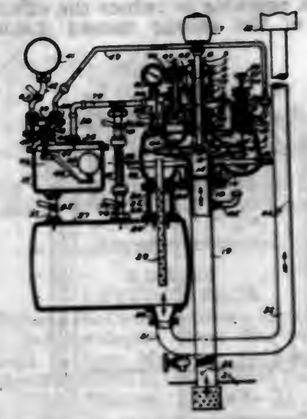


1. A generating electric power plant including a coal fired gas turbine, a generator driven by the turbine, a source of heated motive gases for the turbine including a first low pressure secondary air compressor, a second, high pressure, combustive air compressor, a coal bunker, a coal crusher fed from the bunker and discharging crushed coal to a crushed coal storage means, and a combustor; and solids feed means from the coal storage means to the combustor incorporating a variable delivery, crushed solids feeder, a constant speed rotary transfer pump, and a pneumatic solids feed line connecting the high pressure compressor and the combustor, said feeder discharging into the said feed line through said pump, and a secondary air feed line connecting the first said compressor to the combustor, whereby the products of combustion of the coal and combustive air are diluted and reduced to optimum turbine operating temperature.

2,652,688
VERTICAL AXIS, PUMP AND TURBINE HYDRAULIC COUPLING
Theodor Hudyma and Maxym Olijnyk, Stuttgart-Zuffenhausen, Germany
Application June 15, 1950, Serial No. 168,231
8 Claims. (Cl. 60—54)

1. In a device of the kind described, a lower housing, an upper housing superimposed on the lower housing, said housings being circular in plan and surrounding a vertical axis, a motor driven drive shaft extending through the top of the upper housing and terminating in the lower housing, a radial flow centrifugal pump fixed on the lower end of the drive shaft and discharging in a horizontal plane, said pump having a central downwardly extending intake and a supply pipe therefor extending through the bottom of the lower housing, a turbine rotatably mounted on said drive shaft and having a circular series of

blades in the plane of discharge of the pump, means maintaining a constant level of liquid below said horizontal plane in the lower part of the



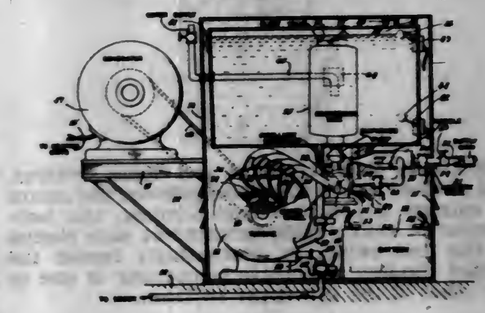
lower housing, and other means maintaining a constant high gas pressure in the upper part of the lower housing.

2,652,689
ROTARY HYDRAULIC COUPLING HAVING ADJUSTABLE OVERFLOW WEIR DETERMINING THE EXTENT OF FILL THEREOF
Richard M. Nelden, Detroit, Mich., assignor to American Blower Corporation, Dearborn, Mich., a corporation of Delaware
Application August 9, 1947, Serial No. 767,732
4 Claims. (Cl. 60—54)



1. A hydraulic coupling comprising an impeller, a runner, a casing rotatable with said impeller, said impeller and said runner being operable to enclose a working circuit of liquid for transfer of kinetic energy therebetween, said casing extending radially toward the axis of rotation to form a chamber for receiving liquid from said working circuit, a passageway substantially at the outer periphery of said casing interconnecting said working circuit and said chamber for conduction of liquid therebetween, means for conducting liquid to said working circuit, said casing having an aperture substantially at the outer periphery thereof, a hollow cylindrical guide member positioned in said aperture, an open ended hollow cylindrical overflow member positioned for reciprocal movement in said guide member and opening therethrough for discharge of liquid from said chamber, the inner end of said overflow member being movable into said chamber to determine the amount of liquid in said working circuit by determining the depth of liquid in said chamber and at which the same will overflow for discharge therethrough, and a mechanical linkage connected to said overflow member and operable to adjust the radial position of the same in said guide member to vary the radial position of said inner end relative to said aperture.

2,652,690
UTILITY MASTER POWER UNIT
Nicholas C. Labriola, Youngstown, Ohio, and Gilbert Adamec, Bronx, N. Y.; said Adamec assignor to Minnie O'Brien Labriola
Application September 27, 1951, Serial No. 248,482
4 Claims. (Cl. 60—55)

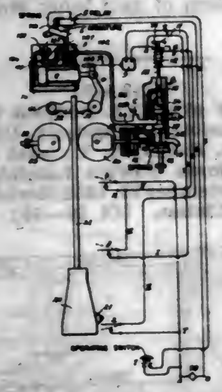


1. A water powered utility unit comprising a water turbine wheel, a supply pipe arrangement for delivering water under pressure from a main to the water wheel turbine, a water storage tank, pipe means extending from the water wheel turbine to said water storage tank, outlet pipe means extending from the water storage tank to said water pipe supply means for the turbine wheel whereby water from the water storage tank may be utilized for driving the water turbine wheel, and valve control means for cutting off the water supply means from the main and for utilizing the water accumulated in the water storage tank upon the water storage tank receiving a large quantity of water and coming to a predetermined level, power generating means connected to the water turbine wheel to be operated by the same and a further discharge pipe means for the removal of the water from the water wheel upon the same being operated by water from the storage tank.

2,652,691
HYDRAULIC-ELECTRIC CONTROL SYSTEM FOR TUPS FOR DROP FORGING
Georges Hartemann, Montbard, France, assignor to Societe Anonyme Louvroil Montbard Aulnoye, Paris, France
Application December 7, 1948, Serial No. 131,559
7 Claims. (Cl. 60—97)

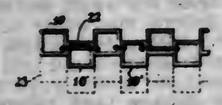
1. A control system for a tup comprising a first fluid motor to apply and release a brake, a second fluid motor to move a pair of rollers toward and away from each other, a source of electric current, first and second electric windings, a source of fluid pressure, first and second valves interposed between said source of fluid pressure and said first and second motors, respectively, to control the operation of said motors, said first and second valves being actuated by energization by said first and second windings, respectively, a first manually actuated switch connected between the

source of current and the first winding, a lower electric switch and two upper electric switches, means to adjust the vertical spacing between said switches, said upper and lower switches being electrically connected between the source of current and the second winding, means movable to



successively close the lower and upper switches, and another switch connected between the source of current and said second winding, the last-mentioned switch being actuated at each closing of the first switch to alternatingly render the second winding responsive to opening of one or the other of the two upper switches.

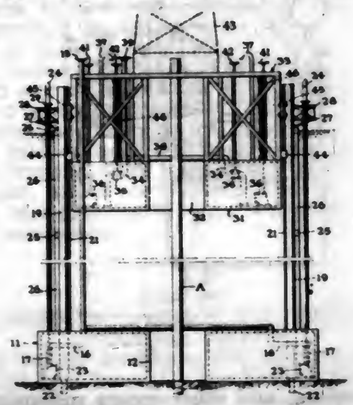
2,652,692
BREAKWATER CONSTRUCTION
David Homer Hayden, Sarasota, Fla., assignor, by mesne assignments, to Beach & Shore, Inc., New York, N. Y., a corporation of New York
Application May 3, 1947, Serial No. 745,850
1 Claim. (Cl. 61—4)



A breakwater comprising a row of stacks of rectangular, one-piece, concrete frames spaced apart from each other in a line, a rectangular frame between each of the first mentioned spaced frames and in a line parallel to but out of line with the spaced frames and means for connecting adjacent frames in the respective stacks.

2,652,693
SUBMERSIBLE SUPPORT FOR MACHINERY
Jerome L. Goldman and Leopold Blum, New Orleans, La.; said Blum assignor to said Goldman
Application May 16, 1949, Serial No. 93,556
7 Claims. (Cl. 61—46)

3. A recoverable machinery island for off-shore use in water whose depth and the depth of whose maximum zone of wave action are both known, comprising in combination a base structure having spaced upright side portions defining a slip and at least one open end; a water displacing unit connected with said base structure; means operable to vary the effective displacement of said unit sufficiently to cause the base structure and unit to float or sink at the will of the operator; a machinery support structure; a water displacing unit beneath and connected with said support structure and capable of floating the same, said support structure and connected unit being so dimensioned that they can be floated into and be confined within the slip-forming space between the side portions of said base structure; means operable to reduce the effective displacement of the second named displacement



unit sufficiently to cause its submergence; and means for sustaining said machinery support structure at a distance above the base structure on said side members of the base structure when said second named displacing unit is submerged.

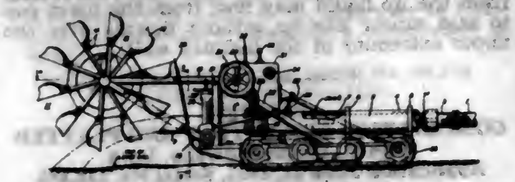
2,652,694
TRANSPORTABLE DOCK
Frederick J. Meiges, Battle Creek, Mich.
Application January 7, 1950, Serial No. 137,441
8 Claims. (Cl. 61—48)



1. In a dock, the combination which includes at least one supporting assembly, said supporting assembly having upper and lower frameworks, said upper framework having a pair of upright members and a cross member for rigidly joining them together, said lower framework having a pair of upright members and a cross member for joining them together, means for releasably anchoring the upright members of said upper and lower frameworks together in various adjusted positions relative to each other, an extension member on the lower end of at least one of the uprights of said lower framework, and means for releasably anchoring said extension member in various adjusted positions relative to the upright member on which it is mounted.

2,652,695
MATERIAL HANDLING MACHINE
Frank O. Paulsen, Ridgewood, N. J.
Application August 4, 1949, Serial No. 108,570
13 Claims. (Cl. 61—63)

1. In a hydraulic levee building machine for constructing a levee from the fluid mixture discharged from a hydraulic dredge pump, the combination of a discharge nozzle including means for connection to the hydraulic dredge pump, an impulse wheel having a plurality of buckets mounted on the periphery thereof, said wheel being rotatably supported opposite said nozzle with the discharge direction of the nozzle substantially tangent to the circular path defined by the buckets, whereby the buckets receive the fluid mixture and cause rotation of the wheel, and a brake me-



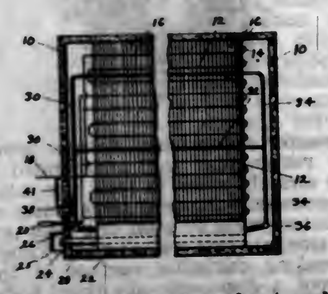
chanically connected to said wheel for applying a mechanical load to said wheel to control its speed.

2,652,696
LETTUCE PACK
Frank Hubert McCann, Salinas, Calif., and Walter J. Schwertfeger, West Englewood, N. J., assignors to Ione McCann, Salinas, Calif.
Application April 2, 1952, Serial No. 279,998
14 Claims. (Cl. 62—1)



1. An ice support and protector for a lettuce pack and the like, a unitary molded felted fibrous cellulosic sheet, said sheet containing a plurality of vertically extending, shallow and downwardly opening domes arranged throughout the surface thereof, an angularly extending continuous peripheral side wall bounding the edges of said sheet, said side wall being directed upwardly at an angle with respect to the vertical, and a horizontally extending and continuous flange surface being integrally formed on the uppermost edge of said wall.

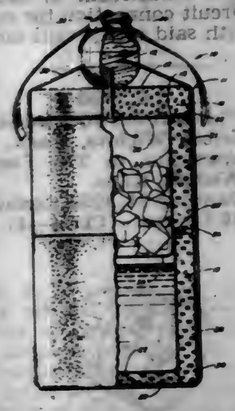
2,652,697
DEFROSTING SYSTEM FOR HEAT EXCHANGE DEVICES
Louis C. Pellegrini, St. Louis, Mo.
Application February 11, 1948, Serial No. 7,584
6 Claims. (Cl. 62—2)



2. A defrosting system for a heat exchange device that comprises a tube in heat transferring relation with said heat exchange device, a heating chamber, a conduit extending between and connecting said tube and said chamber, and a vaporizable fluid in said chamber, said chamber, tube and conduit constituting a closed system,

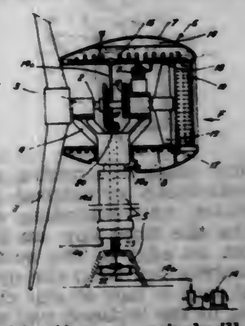
said chamber being dimensioned to and normally acting to confine all of said fluid whenever said fluid is in the liquid state, said chamber and said fluid being proportioned so said fluid can be maintained under a reduced pressure as long as said system remains closed, a source of heat for said chamber, and a thermally responsive control adapted to regulate the application of heat to said chamber.

2,652,698
PORTABLE ICEBOX
Peter Schlumbohm, New York, N. Y.
Application November 23, 1951, Serial No. 257,762
16 Claims. (Cl. 62—90)



1. A portable icebox, characterized by at least two separate containers, each having bottom walls, side walls and an open top, and each container having an insulating jacket covering at least part of said side walls, said side walls being slightly tapered to the extent of allowing the bottom wall of one container to protrude into the upper section of the open end of the other container, said jackets aligning themselves when the containers are nested together, said alignment being effected by the cooperation of the rim of the one container with a gasket-like groove in the insulating jacket of the other container.

2,652,699
WINDMILL AND HEAT PUMP SET
Lucien Romani, Paris, France
Application October 8, 1949, Serial No. 120,236
In France November 16, 1948
9 Claims. (Cl. 62—115)



1. In combination, a windmill including a tower having a vertical axis, a support rotatably mounted on said tower so as to be capable of rotating around the axis of said tower accord-

ing to the direction of the wind, and a wind wheel rotatably mounted on said support so as to be capable of rotating under the action of the wind, a heat pump of the type which includes a structure embodying a conditioning passage for a fluid, means for circulating said fluid through the conditioning passage, a compressor operatively connected with said windmill so as to be actuated by a portion of the power supplied by the latter, a refrigerant circuit having at least a part mounted on said support so as to be permanently positioned on the path of the windstream which actuates said windmill and including a heat exchanger positioned in said conditioning passage in heat transferring relation to the fluid therein, means for transferring heat from said windstream to said refrigerant circuit, and circuit connection for connecting the compressor with said refrigerant circuit.

2,652,700
VIBRATION DAMPER FOR LONG SHAFTS
Charles M. Seibel, Wichita, Kans., assignor, by mesne assignments, to The Cessna Aircraft Company, Wichita, Kans.
Application January 24, 1952, Serial No. 268,003
10 Claims. (Cl. 64—1)



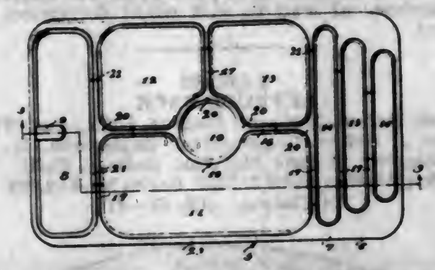
1. Apparatus for damping lateral vibratory movements of a rotating shaft comprising: a fixed independently supported plate having a large diameter shaft aperture within which the shaft rotates substantially centrally at low shaft speeds; a damper plate having a circular shaft aperture only slightly greater in diameter than that of the shaft, and within which the shaft rotates; and means mounting the damper plate flat against one surface of the fixed plate for frictional sliding movement with relation thereto in various parallel directions, and with the respective shaft apertures in register.

2,652,701
HEAT DISPERSING DRINKING CUP
Thomas J. Longhurst, Vancouver, British Columbia, Canada
Application May 31, 1952, Serial No. 290,937
2 Claims. (Cl. 65—13)



1. A drinking vessel comprising a main cup having a substantially cylindrical side wall, a horizontal bottom wall extending substantially half way across the main cup, an inclined wall extending from an edge of the bottom wall up to a height slightly less than the upper edge of the cylindrical wall, a pair of side chambers between the ends of the inclined wall and the side wall of the main cup, a saucer like lip extending around at least half the perimeter of the cylindrical wall and across the chambers, said side chambers being in communication with the saucer like lip intermediate the height of the inclined wall whereby as the cup is tilted to drink from the lip liquid may flow from the main cup to said saucer like lip without flowing over the upper extremity of the inclined wall.

2,652,702
COMBINATION PICNIC TRAY AND PLATTER
Olga C. Hintze, Lowden, Iowa
Application June 22, 1951, Serial No. 232,235
2 Claims. (Cl. 65—15)



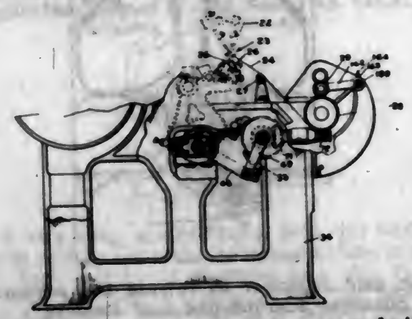
2. A combination tray and platter comprising a body member having a plurality of depressions opening outwardly of an upper surface thereof including three spaced depressions forming food containing compartments, a circular depression surrounded by said food containing compartments forming a drinking receptacle holder, another of said depressions being disposed at one end of the body member and extending transversely of said body member to define a napkin holding compartment, the opposite end of said body member having three transversely extending longitudinally spaced depressions forming eating utensil holding compartments, said body member being formed of plastic and having integral reinforcing web members extending between the walls of the partitions adjacent the top surfaces thereof for bracing said partition walls.

2,652,703
COASTER
Jane M. Keegan, Evanston, Ill.
Application October 22, 1949, Serial No. 122,873
4 Claims. (Cl. 65—53)



3. A coaster comprising a tray providing a generally rectangular well surrounded by substantially straight sides, at least one side of each pair of oppositely-disposed sides being equipped intermediately with at least one boss projecting from the side into said well and providing a vertically-extending camming surface of the inner edge thereof, a disposable absorbent body within said well, and a resilient rectangular plate received within said well above said absorbent body, said rectangular plate having spaced apart crosswise ribs with crosswise openings therebetween and having its sides bowed inwardly by the camming surfaces of said bosses so as to be frictionally locked within said well.

2,652,704
KNITTING MACHINE
Robert H. Roughsedge, Ramsey, N. J., and Hans G. Lastig, New York, N. Y., assignors to Celanese Corporation of America, a corporation of Delaware
Application July 22, 1948, Serial No. 40,116
19 Claims. (Cl. 66—149)



1. Fabric take-up means for warp-knitting machines and the like, the combination with a fabric take-up roll, of means for rotating said take-up roll and separate means for positively applying an additional torque to said take-up roll.

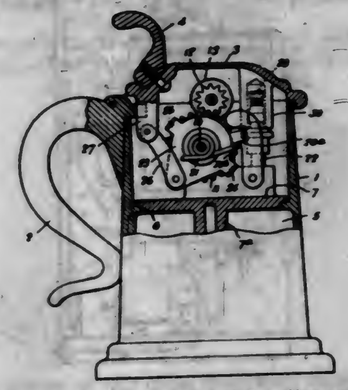
2,652,705
TAPE
Robert Weinberg, New York, N. Y., assignor to Lastik Seam Sales Corporation, New York, N. Y., a corporation of New York
Application September 11, 1950, Serial No. 184,210
6 Claims. (Cl. 66—193)



1. A transversely elastic, longitudinally non-extensible tape comprising inelastic selvedge portions and an intermediate transversely elastic coupling portion having a single elastic thread formed into a continuous succession of loops, each selvedge portion including a plurality of longitudinal rows of inelastic chain stitch thread loops, at least one of which is interlocked with closed ends of said elastic thread loops and inelastic interconnecting cross threads between alternate chain stitch loops in the adjacent rows.

2,652,706
PYROPHORIC LIGHTER
Herbert Charles Humphrey Smyth, Bedford Park, London, England, assignor of one-half to Alfred Dunhill Limited, London, England, a British company
Application November 22, 1950, Serial No. 197,030
In Great Britain December 23, 1949
3 Claims. (Cl. 67—4.1)

1. In a lighter, a casing provided with a fuel container, a wick, and a friction wheel for igniting said wick, mechanism for rotating said friction wheel comprising a rotatably mounted driving plate having lugs projecting from opposite side faces thereof, a control plate rotatable coaxially with respect to said driving plate, spring means engageable with the driving plate for rotating the same in one direction, a latch device engageable with one of said driving plate lugs for holding said driving plate stationary in preset position with the said spring in loaded condition, manually operable means for rotating said



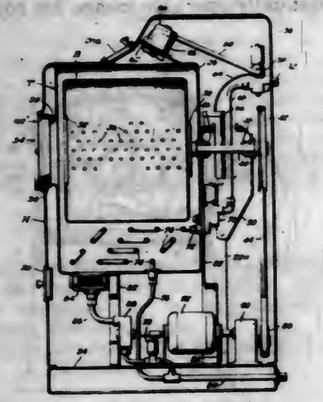
control plate in two oppositely disposed directions, means on the control plate engageable with the other of said driving plate lugs when the control plate is rotated in one direction, to effect simultaneous rotation of said driving plate against the action of the said spring, to engage the first mentioned lugs on the driving plate with the latch device, and additional means on said control plate adapted to engage and release said latch device from said lug when said control plate is rotated in an opposite direction.

2,652,707
MECHANISM FOR CONTROLLING EMISSION OF GAS FROM LIGHTERS
Alfred F. Reilly, Jr., and Albert M. Larsen, Jr., North Attleboro, Mass., assignors to Evans Case Co., a corporation of Massachusetts
Application October 7, 1950, Serial No. 189,963
4 Claims. (Cl. 67—7.1)



1. A device for controlling the discharge of gas under pressure from a lighter or the like comprising an internally threaded tube having two ends, a limit means in said tube positioned near a first end thereof, an imperforate elastic member adjacent said limit means on the side thereof toward said first end, a nozzle threaded into said first end, said nozzle engaging said elastic member, said elastic member extending into said threads to control the passage of gas thereby in accordance with the force exerted by said nozzle.

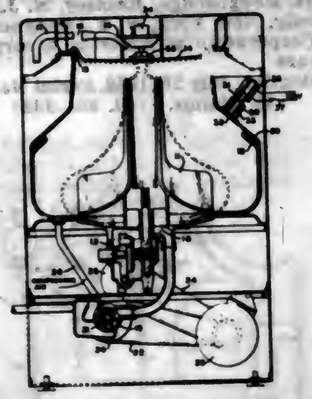
2,652,708
COMBINED CLOTHES WASHER AND DRIER
Victor E. Rimaha, Chicago, and Alcuse C. Goodrich, Winnetka, Ill., assignors to The Dole Valve Company, Chicago, Ill., a corporation of Illinois
Application January 6, 1949, Serial No. 69,522
4 Claims. (Cl. 68—20)



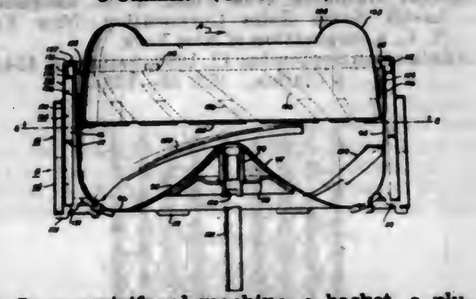
2. In an automatic laundry machine of the type having a casing, a clothes receiving door in a wall thereof, a perforate clothes containing basket journaled within said casing, a blower within said casing and having communication with said basket a motor for driving said blower, a spring connected between said casing and door and biasing said door to an open position, a tongue on said door, a retractable catch pivotally mounted on said casing for engagement with said tongue, to hold said door in a closed position against the action of said spring, a solenoid mounted on said casing and including a magnet coil and an armature pivotally connected with said catch and effective to move said catch to a released position upon energization of said solenoid and electrical connections between said blower and said solenoid to simultaneously energize said solenoid and said motor for driving said blower at the completion of a preliminary drying operation, to open said door and establish an air outlet passageway and circulation of air through said door for a final drying operation.

2,652,709
WASHER AND SQUEEZER EXTRACTOR
Myron W. Bowen, Niles, Mich., assignor, by mesne assignments, to Avco Manufacturing Corporation, New York, N. Y., a corporation of Delaware
Application June 29, 1949, Serial No. 102,035
4 Claims. (Cl. 68—21)

3. A washing machine comprising a flexible liquid and airtight element, a closed chamber surrounding said element, said element having an opening through which laundry may be inserted and removed, an air and watertight closure for said opening, means for agitating laundry within said element, said liquid and airtight element having side walls substantially wholly surrounding said laundry and said agitating means, means for withdrawing the liquid and air from said element to create a substantial vacuum therein, means for simultaneously supplying air under pressure into said chamber surrounding said element to squeeze liquid from said laundry by pressure exerted against the outer surface of said element, and means mounted on said chamber to release the pressure in said chamber surrounding said element.



2,652,710
COMBINED WASHING AND CENTRIFUGAL DRYING MACHINE
Jay Grant De Remer, Darien, Conn., assignor to J. G. De Remer Research Corporation, Union City, N. J., a corporation of New Jersey
Application March 3, 1948, Serial No. 12,718
6 Claims. (Cl. 68—23)



1. In a centrifugal machine, a basket, a plurality of nested annular, open ducts on said basket, means for spinning said basket for centrifugal extraction, the arrangement being such that liquid centrifugally discharged from said basket is caught by an inner duct and liquid centrifugally discharged from said inner duct is caught by the next outer duct.

2,652,711
DIAPER WASHING APPARATUS
James W. Sampson and Charles Mervin Champion, Sheridan, Wyo.
Application August 16, 1949, Serial No. 110,436
1 Claim. (Cl. 68—245)



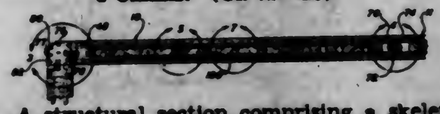
In washing apparatus, a board, upstanding flange means disposed on opposite sides of said board and having aligned slots adjacent one end of said board and inclined toward said board and toward said one end thereof, a wringer roll journalled for rotation in said slots, and means to resiliently urge said wringer roll toward said board.

2,652,712
KEY CASE
James H. Heag, San Francisco, Calif.
Application August 6, 1951, Serial No. 240,475
7 Claims. (Cl. 70—456)



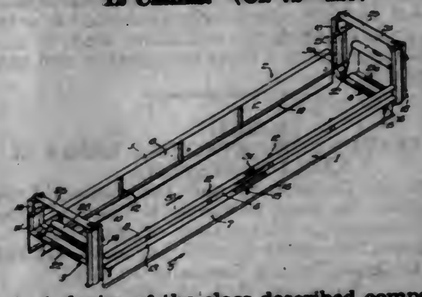
6. A key case, comprising a key case body, a key retainer on the body for receiving and retaining a key, and being disposed in a slot in the body and movable in the slot from one position to another, said body having a lateral opening therein to permit swinging movement of the key out of the body and back into the body, said body having a stop spaced from the retainer, when the retainer is disposed in its first position, a distance less than the length of the key from its retainer-receiving opening to its working end, whereby the key is prevented from outward swinging movement when the retainer is disposed in said first position but released when the retainer is shifted to its second position, and spring means for urging the key against the stop.

2,652,713
STRUCTURAL SECTION
John J. Senglar, Los Angeles, Calif.
Application May 31, 1947, Serial No. 751,565
2 Claims. (Cl. 72—16)



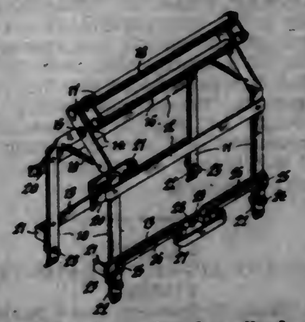
1. A structural section comprising a skeleton encased in concrete, said skeleton having a plurality of bar members, each bar member comprising a pair of parallel spaced legs lying in a transverse plane across the section, the successive bar members being spaced from each other in a direction perpendicular to the planes of the legs, pairs of parallel spaced stay rods, the respective rods of each pair crossing adjacent respective legs of said bar members and lying in a plane which crosses the planes of the legs, spacing struts extending transversely across the legs of the bar members and the rods of the pairs of rods at the positions where the rods cross the legs, means attaching the struts to the legs and rods at said positions, and each pair of legs and each pair of rods being encased in a continuous mass of concrete, and a plurality of spline plates embedded in the concrete, each of said spline plates being located substantially in the plane of a pair of the parallel stay rods and extending substantially to an edge of the section, each spline plate having a pair of slots extending inwardly from opposite sides thereof, with the respective legs of the bar member nearest said edge passing through said slots and an additional pair of parallel slots extending inwardly from the protruding edge of the plate in a direction substantially perpendicular to the direction of extent of the first-mentioned pair of slots, and substantially aligned with the inner ends of the first-mentioned pair of slots, the respective rods of the pair of parallel stay rods in whose plane the plate lies, passing through the last-mentioned pair of slots and thereby being anchored therein, and a key-way formed centrally in the edge of the spline plate at the edge of the section, adapted to receive a key for attaching the spline plate to another member.

2,652,714
MEANS TO FACILITATE THE LAYING OF MASONRY UNITS
Paul H. Sommers, Montgomery, Ala.
Application July 9, 1949, Serial No. 103,865
12 Claims. (Cl. 72—129)



1. A device of the class described comprising a pair of substantially U-shaped frame members carrying hinge members at the upper ends of the legs thereof, a handle connected to each of said frame members and disposed between the legs of the same, a pair of arms pivoted intermediate their ends on each of said frame members upon said hinge members, a spring metal strip of upwardly convex cross section connecting the upper ends of said arms on each of said frame members and forming a strut between said arms, holding them in substantially vertical position on the sides of said frame, each of said strips being disposed above the respective handle and being capable of being pressed downwardly to pull the upper ends of the arms together and to swing the lower ends of the arms apart, and a pair of face plates connected to the lower ends of said arms.

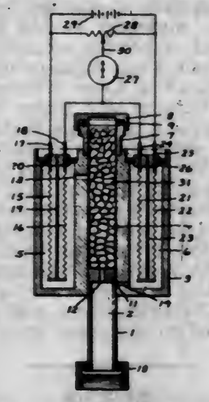
2,652,715
CONCRETE BLOCK HANDLING TOOL
Louis F. Loose, Buffalo, N. Y.
Application November 17, 1949, Serial No. 127,955
2 Claims. (Cl. 72—129)



1. A tool of the character described, comprising an expansible frame for releasable engagement with a building block and including upright laterally-spaced pivotally-mounted end bars and upper and lower longitudinal side bars fixed thereto, block-alining means depending from said end bars and longitudinally at one end from

the upper side bars for facial alining contact, respectively, with the opposite sides of an adjoining subjacent laid block and with the companion sides of an endwise alined block, block-spacing lugs projecting laterally inward from one end of the lower side bars beyond the adjacent end bars for abutting contact with the end of an adjoining laid block for gaging the endwise mortar-receiving space between blocks, and angularly displaceable gage elements of greater height than width mounted in opposing relation adjacent the lower ends of said end bars for releasably supporting the block within the frame during handling and for gaging the mortar space between the subjacent laid block and the block about to be laid, and link means applied to each lower side bar and operatively connected to companion gage elements for actuating them in unison to their respective block-supporting and gaging positions.

2,652,716
APPARATUS FOR DETECTING LEAKS IN VACUUM SYSTEMS
Jack Blears, Davenham, and John Henry Leck, Stretford, England, assignors to General Electric Company, a corporation of New York
Application November 18, 1949, Serial No. 128,182
In Great Britain November 29, 1948
8 Claims. (Cl. 73—40)



1. Apparatus for detecting leaks which admit a gaseous probe medium into a vacuum system, comprising walls defining first and second passageways, means connecting said first and second passageways, means for connecting said first passageway to the vacuum system, gas-absorbing material within said second passageway, said material being of a kind which absorbs the probe medium but does not absorb air, first and second vacuum gauges, means connecting said first vacuum gauge to said first passageway, and means connecting said second vacuum gauge to the end of said second passageway not connected to said first passageway.

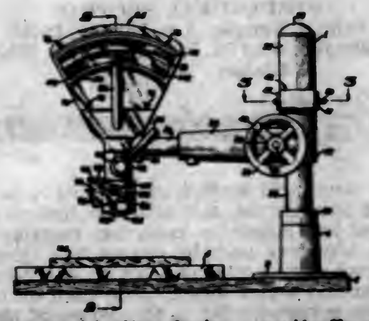
2,652,717
METHOD AND APPARATUS FOR TESTING TUBING
Walter M. Bush, Bellflower, and Charles H. Collett, Burbank, Calif., assignors, by direct and mesne assignments, to Bush Testing, Inc., a corporation of California
Application April 26, 1948, Serial No. 23,246
2 Claims. (Cl. 73—40.5)

2. A tubing tester comprising means providing spaced barriers adapted to seal off a joint of a tubing, a rod connecting the barriers, slip means attached to one of the barriers by which it may be self-supported within the tubing, there being



a passage through the rod and the upper barrier and opening into the space between the barriers, and means for supplying measurable fluid pressure to said passage.

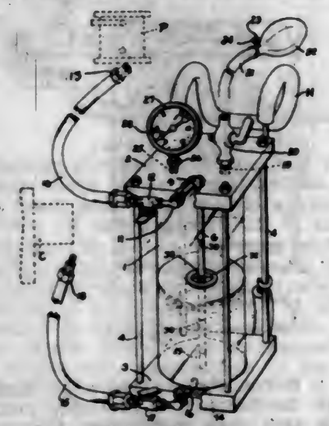
2,652,718
DEVICE FOR TESTING MEAT TENDERNESS
Harlow P. Wiseman, Hermosa Beach, Calif.
Application January 28, 1949, Serial No. 73,297
6 Claims. (Cl. 73—78)



1. In a meat testing device, a vertically movable member, said member having an enlarged circular and hollow foot portion depending therefrom, a test plug positioned in said hollow foot portion and vertically movable relative thereto and having an imperforate lower face and a recess opening through the top thereof, means to move said foot into engagement with a piece of meat placed thereunder and apply a predetermined pressure to said meat; means to move said test plug into engagement with said meat and apply a predetermined pressure to said meat; and means extending into the recess in said test plug to engage and move the test plug into the meat.

2,652,719
APPARATUS FOR TESTING THE FUEL CONSUMPTION OF MOTOR VEHICLES
Dante Bracci, Franklin, Mass.
Application September 23, 1950, Serial No. 186,240
1 Claim. (Cl. 73—113)

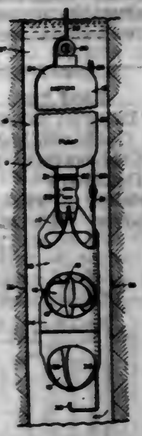
An apparatus for testing the fuel consumption of an automobile internal combustion engine having a fuel pump and a carburetor comprising a closed fuel reservoir having a transparent wall, an indicator within the reservoir having upper and lower level marks visible through the wall which indicate a predetermined volume of fuel within the reservoir between the levels of said marks, a pipe line having means for removably connecting the reservoir with the fuel pump and a pipe line having means for removably connecting the reservoir with the carburetor so that fuel may be forced normally by the pump through the reservoir and to the carburetor, a valve in each pipe line for controlling the fuel flow and providing for the reservoir being filled by the fuel pump to the upper level mark, a pressure gauge connected to the reservoir for indicating the air pressure within the reservoir continuously during



a test and so as to duplicate the pressure caused by a normal non-testing fuel pump operation, and a manually controlled air pump having a controllable valve serving as an air outlet and inlet and a pipe connection with the reservoir which serve for the egress of air during a filling operation while the fuel pipe line valve is open and the carburetor pipe line valve is closed and for introducing air under pressure to the reservoir during a test operation while the fuel pump pipe line valve is closed and the carburetor pipe line valve is open, so that fuel may be fed to the carburetor by a maintained air pressure under a simulated normal fuel pump action while the automobile is driven through a measurable distance to lower the fuel level from said upper to the lower level indicator mark.

2,652,720
METHOD OF AND APPARATUS FOR DETERMINING TOTAL FLOW IN A BOREHOLE
Raymond G. Piety, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application November 15, 1948, Serial No. 60,006
5 Claims. (Cl. 73—155)

4. The method of determining total flow in a bore hole wherein the flow rate varies at different regions of the cross section of said bore hole which comprises lowering a flow meter into a bore hole to a predetermined depth, whereby the flow meter indicates the amount of liquid passing from the upstream side thereof to the downstream side thereof, pumping a predetermined amount of liquid from one end of the flow meter to the other end thereof and measuring the resulting changed flow at said region whereby the ratio of the change in measured flow at said region to the predetermined amount of liquid pumped past the meter is the same as the ratio between the original measured flow at said region



and the true flow through the bore hole and the normal meter reading may be corrected accordingly to give the true flow.

2,652,721
THERMAL FLOWMETER
Fred L. McMillan and Bruce F. Wiley, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Application February 18, 1949, Serial No. 77,232
6 Claims. (Cl. 73—155)



6. A fluid flow meter comprising, in combination, a casing defining a flow passage, a variable electrical impedance unit positioned within said casing, said impedance unit comprising first and second elements movable with respect to one another whereby the measurable impedance of said impedance unit depends upon the relative position of said two elements, first and second temperature sensitive elements positioned within the flow passage defined by said casing, means mechanically connecting said first and second temperature sensitive elements to respective said first-mentioned first and second elements whereby like changes in temperature of said temperature sensitive elements provide corresponding movements of said first-mentioned elements in the same direction and of like amounts whereby the measurable impedance of said impedance unit remains unchanged, and means for supplying heat at a predetermined rate to said first temperature sensitive element to cause movement of said first first-mentioned element which is proportional both to the ambient temperature of the fluid under measurement and the rate of flow as evidenced by the rate the supplied heat

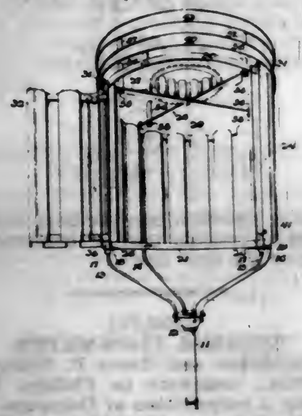
is removed from said first temperature sensitive element by the flow and movement of said second first-mentioned element is proportional only to the ambient temperature of the fluid whereby the measurable impedance of said impedance unit is representative of the fluid flow.

2,652,722

OUTDOOR INSTRUMENT SHELTER

Louvan E. Wood, Glenarm, Md., assignor to Bendix Aviation Corperation, Baltimore, Md., a corporation of Delaware

Application November 13, 1952, Serial No. 320,321
11 Claims. (Cl. 73—170)



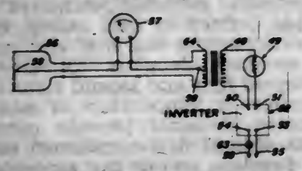
2. An outdoor meteorological instrument shelter, comprising, in combination: a side wall comprising an annular arrangement of a plurality of vertically extending channel members alternately underlying and overlying each other in overlapping relationship, said members having their upper and lower edges slotted, a pair of slotted rings cooperating with said members to form a plurality of crosslap joints therewith, means for clamping together said rings and said members, a cover overlying said side wall to form a housing therewith, means for supporting said cover and said side wall, and instrument supporting means within said housing.

2,652,723

THERMAL AIR-SPEED INDICATOR

Charles E. Hastings, Hampton, Va.

Original application April 6, 1945, Serial No. 587,800. Divided and this application February 6, 1951, Serial No. 209,671
7 Claims. (Cl. 73—204)
(Granted under Title 35, U. S. Code (1952), sec. 266)



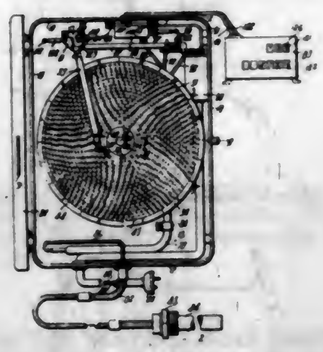
1. An air speed indicator comprising first and second thermopile bars joined at a common junction and connected in D.-C. polarity opposition, each of said bars having cold junctions of substantially greater cross-sectional area than the associated hot junctions, bridge means including said first and second thermopile bars in two arms thereof, a transformer having a center-tapped secondary, said bridge means including said secondary as the other two arms thereof, means for supporting both thermopile bars in the air stream, a D. C. indicating device calibrated in air speed connected between the center tap and the junction of said thermopile bars, and means operatively connected to the primary of said transformer for applying an alternating current thereto for heating said thermopile bars.

2,652,724

DEGREE-DAY REGISTER

Elmo D. Hidy, Cincinnati, Ohio

Application February 25, 1948, Serial No. 10,651
14 Claims. (Cl. 73—339)



10. In a degree-day register, the combination of a clock mechanism, a rotatable member rotatable by said clock mechanism through a single rotation in a given length of time, contact means having spaced contact portions distributed over the surface of said rotatable member along the path of rotation of said member, the number of said contact portions per given length of path of rotation of the rotatable member varying progressively transversely of the direction of rotation of the rotatable member, a contact member positioned relative to the rotatable member surface so as to make contact with said contact portions when said rotatable member rotates and of such size as to be able to contact only one contact portion at a time, temperature responsive means for causing relative motion transversely of said path of rotation between said contact and rotatable members, the extent of such motion being proportional to the temperature to which said device is subjected, and means actuated by contact of said contact member with said contact portions to register the number of contacts made when said rotatable member is rotated through a single rotation by the clock mechanism.

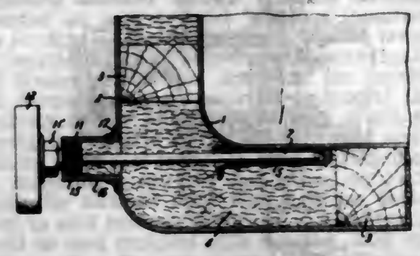
2,652,725

BIMETALLIC THERMOMETER MOUNTING FOR DOUBLE-WALLED TANKS

Anthony H. Lamb, Hillside, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corperation of New Jersey

Application June 3, 1949, Serial No. 97,034
6 Claims. (Cl. 73—343)

1. The combination with a double-walled tank for the storage of a liquid, the inner liquid-receiving tank having a bottom wall and the outer tank wall being provided with an opening in substantially horizontal alinement with said bottom wall; of means for indicating the temperature of the liquid within the tank; said means comprising a bimetallic thermometer having a helical bimetallic element of short axial length within the inner end of an elongated hollow stem, a staff secured to the bimetallic element for angular adjustment thereby, a mounting head and casing secured to said hollow stem, a graduated scale plate within said casing, a pointer on said staff and movable thereby over the scale plate, cooperating means on said mounting head and on said outer tank at said opening removably supporting said bimetallic thermometer in fixed position on said outer tank wall



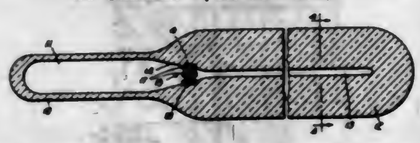
and extending through said opening with the thermometer stem beneath said bottom wall of the inner tank, and guide means welded to the lower surface of said bottom wall of the inner tank in position to receive the inner end of said thermometer stem and support the same in metallic heat transfer relation to and parallel to the lower surface of said bottom wall of the inner tank, thereby to subject the bimetallic element within said inner end of the thermometer stem to substantially the temperature of the bottom wall of said inner tank.

2,652,726

MAXIMUM INDICATING THERMOMETER

Fred Getthart, Ridgewood, N. Y.

Application August 5, 1949, Serial No. 108,768
20 Claims. (Cl. 73—371)



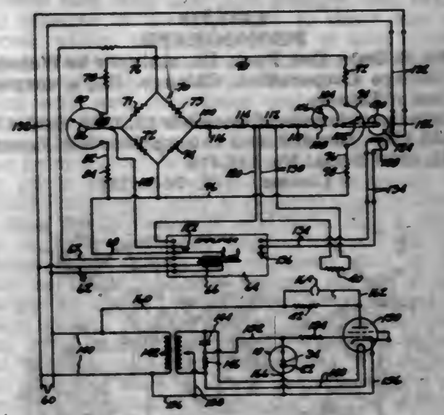
1. A thermometer of the maximum indicating type comprising a temperature sensing bulb defining a liquid reservoir chamber for a temperature responsive liquid, a stem connected to said bulb and having a bore, there being a passageway affording communication between said chamber and said bore, a check valve in said passageway having a valve member of resilient material in the form of a plug, means restraining bodily movement of said valve member along said passageway, said member normally shutting off flow of liquid through said valve and exposed at a section of its outer periphery to the pressure action of the liquid from said bulb chamber and from said stem bore the area of said section of the valve member being large enough compared with the area of the end of the valve facing said bulb chamber, whereby when the liquid in said bulb chamber is expanding due to the sensing of rising temperature, the pressure action of said liquid at said section of said valve member compresses said section radially inwardly to define an opening through which said expanding liquid can overflow from said bulb chamber into said stem bore, and when said liquid ceases to expand, the valve member is restored by its inherent resiliency into shape to block return flow of said liquid from said stem bore to said bulb chamber, and whereby when the thermometer is shaken the resulting pressure of the liquid in said stem bore upon said section of said valve member compresses said section radially inwardly sufficiently to permit said liquid to be ejected into said bulb chamber.

2,652,727

DEVICE FOR MEASURING ABSOLUTE PRESSURE

Robert D. Richardson, Coolspring Township, La Porte County, and George B. Bailey, Long Beach, Ind., assignors to The Hays Corporation, Michigan City, Ind., a corporation of Indiana

Application September 24, 1947, Serial No. 775,938
3 Claims. (Cl. 73—398)



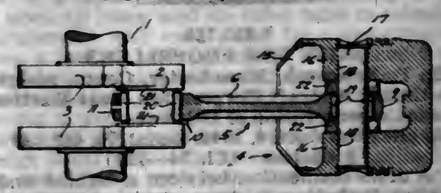
1. A device for measuring absolute pressure comprising a sealed container for a reference fluid defined in part by a diaphragm, a contact carried by said diaphragm, a fixed contact carried by said container and engageable by said first contact, means for applying a pressure to be measured to said diaphragm, means for heating said reference fluid, a thermally sensitive resistor in said container, and a control circuit for said heating means correlated with said contacts, said circuit including a thyratron electron emission tube including a grid and a cathode, a phase controlling network connected to said grid, a power supply for said cathode, a lead connecting said power supply and said network and having said contacts interposed therein, and measuring means responsive to said resistor.

2,652,728

CRANKSHAFT, PISTON, AND CONNECTING ROD FOR INTERNAL-COMBUSTION ENGINES

Elmer C. Kiekhaefer, Cedarburg, Wis.

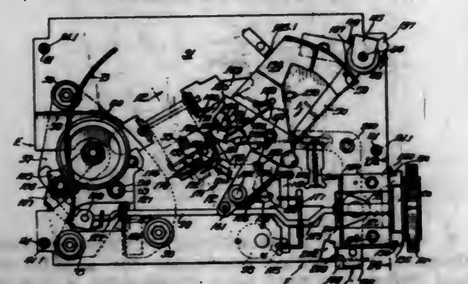
Application December 19, 1949, Serial No. 133,833
5 Claims. (Cl. 74—44)



1. The combination with a crankshaft having a crank pin and a piston having a wrist pin, of

a connecting rod and separable end cap defining a lower bearing at one end of said rod mounted on said crank pin and axially movable relative thereto within the corresponding dimensions of said crank pin, an upper bearing formed in the opposite end of said rod receiving said wrist pin, and axial thrust bearings carried by said wrist pin between said piston and the upper end of said rod preventing other than rotational movement of said rod with respect thereto whereby the relative axial movement between the connecting rod and crank pin is limited by said bearings, said axial thrust bearings being dimensioned to provide axial support of said rod on a substantial radius of the upper bearing of the rod whereby the rod is confined and axially supported at the upper end thereof independently of the wrist pin.

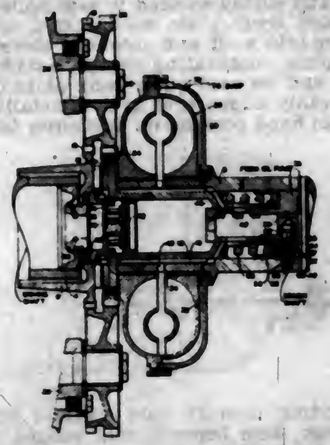
2,652,729
PHONOGRAPH
Colin B. Dale, Oak Park, Ill., assignor to Webster-Chicago Corporation, Chicago, Ill., a corporation of Illinois
Original application December 15, 1949, Serial No. 133,168. Divided and this application January 13, 1950, Serial No. 138,471
4 Claims. (Cl. 74—472)



4. In a phonograph, the combination of a support, a record-supporting turntable journaled for rotation on the support, a motor mounted on the support and having its drive shaft formed with hubs of differing diameters, a lever, a post on the support mounting the lever for horizontal and vertical shifting movement, a bracket swingably mounted on the lever, a rotatable member journaled on the bracket, a spring normally urging said rotatable member to form a driving connection between the motor shaft hubs and the turntable, a switch for controlling current to the motor, a slide reciprocatingly mounted in the support, a finger connecting the slide to the switch, a shaft journaled on the support to reciprocate through 180 degrees, a pair of cams on the shaft one of which engages the lever and the other of which engages the slide whereby energizing of the motor is synchronized with connection of said rotatable member with either of the shaft hubs, and a dial connected to actuate the shaft.

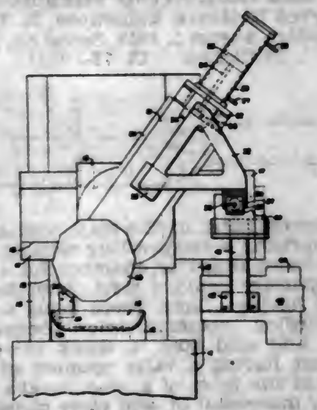
2,652,730
DRIVE FOR PROPELLERS
Philip P. Newcomb, Manchester, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application April 6, 1946, Serial No. 660,239
8 Claims. (Cl. 74—732)

1. A drive connection between a turbine and a propeller including a drive shaft connected to the turbine and a driven shaft connected to the propeller, a fluid coupling drivingly connected to one of said shafts and a gear train providing a driving connection between the coupling and the other of said shafts, said gear train including a speed increasing arrangement by which to



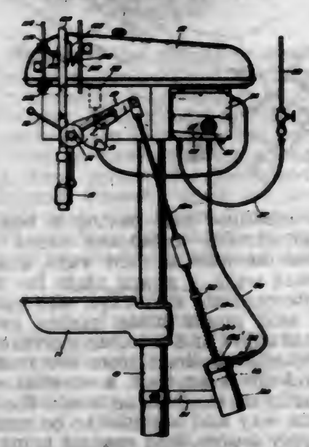
cause the driven shaft to rotate at a speed higher than that of the driving shaft thereby overcompensating for slip in the coupling, and a positive toothed clutch providing a connection between said shafts and adapted to be engaged when the driven shaft overspeeds the driving shaft.

2,652,731
VERTICAL BORING MILL ATTACHMENT
Manuel Turchan, Dearborn, Mich.
Application June 25, 1949, Serial No. 101,323
7 Claims. (Cl. 77—4)



1. A vertical boring mill for reproducing tapers, curves, and right angle shoulders on the work in conformity with the profile of a template, including a horizontal rotatable table for holding and turning a work; an upright slide support with vertically arranged guideways, an upright vertically adjustable slide thereon, an upright horizontally adjustable slide movably mounted upon said vertically adjustable slide, means on said first slide for guiding said second slide longitudinally of the work, means for moving said horizontally movable slide at a constant rate of advance, a template disposed in fixed position lying in a plane parallel to the path of movement of said horizontally movable slide, with its profile in a plane parallel to said path of movement, an upwardly inclined slide support mounted on said horizontally movable slide and arranged at an acute angle to the direction of movement of said latter slide, and with said inclined slide support having similarly inclined guideways thereon, a correspondingly inclined slide mounted on said latter guideways and adapted to reciprocate at an angle to the work acute in the direction of travel of said horizontally movable slide, a work engaging cutter on said inclined slide, an upright bracket secured to said inclined slide and projecting laterally thereof, a tracer mechanism mounted on said bracket with its longitudinal axis at right angles to the plane of said template and having a finger projecting longitudinally of said tracer mechanism engaging the profile of said template and responsive to lateral thrust relatively to said tracer mechanism in the plane of said profile and responsive to relief and impedance from said template, and a hydraulic system including a cylinder and piston for reciprocating the inclined slide, said cylinder being secured to said inclined slide and said piston being joined to said inclined slide support, said system so connecting the tracer and the cylinder that actuation of the tracer finger by the template operates the cylinder to move the inclined slide to neutralise the actuation of said tracer finger, thus reproducing on the work the profile of said template, said finger being universally movable.

2,652,732
MACHINE CONTROL
Charles F. Frye, Chicago, Ill.
Application December 16, 1946, Serial No. 716,542
5 Claims. (Cl. 77—33.5)



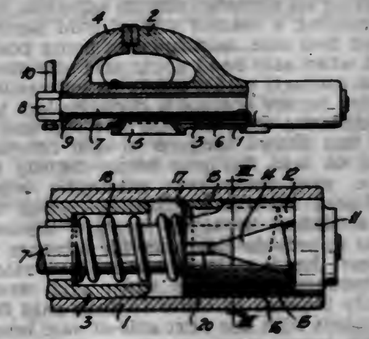
1. In a pneumatic machine control, in combination: a pneumatic cylinder; connections between said cylinder and the feed mechanism of a machine tool for actuating said feed mechanism; said cylinder having an inlet; a fitting adjacent said inlet; two passages through said fitting communicating with said cylinder; one of said passages including adjustable throttling means continuously operative; the other of said passages containing a check valve preventing flow into said cylinder; said check valve being normally open and adapted to admit a predetermined small quantity of fluid quickly before the inflowing fluid closes said valve; a supply conduit communicating with both passages; and means for connecting said supply conduit to atmosphere or to a source of fluid under pressure.

2,652,733
BALL PLUG SETTING TOOL
Edward T. Gilda, St. Louis, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application August 23, 1950, Serial No. 181,869
1 Claim. (Cl. 78—99)



A ball plug guiding and setting tool comprising a body with an elongated, longitudinal bore and a first tapered end, a magnetized plunger slidable in said bore, said plunger having a diameter greater than the diameter of a ball plug and having a spherical recess in its end corresponding to the curvature of the plug, a spring stressed between said body and said plunger and urging said plunger in the direction to draw one end thereof within said tapered end of said handle, stops on said body and said plunger limiting the spring produced movement thereof to a rest position with said mentioned end of said plunger a distance inside said bore less than the diameter thereof to form a cup for stably receiving a ball plug from a stock into which the tool is directed, the other end of said plunger projecting oppositely from said body a distance slightly greater than the diameter of said bore, and a shoulder on said oppositely projecting end of said plunger for striking the adjacent end of said body to limit the plug setting stroke of said plunger to thereby limit the most advanced position of said plunger in the plug setting direction to a position slightly beyond the tapered end of said body for first setting the received ball plug and then swaging the edge of the plug receiving opening to secure the plug in position.

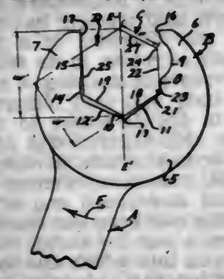
2,652,734
GRIPPING DEVICE
Dero Waldemar Wasshem, Norrkoping, Sweden
Application February 25, 1952, Serial No. 273,164
In Sweden February 13, 1952
5 Claims. (Cl. 81—17)



1. A gripping mechanism comprising a pair of jaws, an inner and an outer tube in telescopic engagement with each other for supporting said jaws, a locking and tightening device being provided between said tubes and comprising a sleeve expansible into contact with said outer tube and having a wedge-shaped slit and a wedge in engagement with said slit, said sleeve and said wedge being relatively movable longitudinally of the outer tube, said inner tube having a rotatable control device comprising a central rod rotatably mounted in the inner tube, a piston-like head on said rod mounted in the outer tube, a

helical surface being provided on one side of a portion of said head for engaging said wedge so as to effect an axial displacement thereof upon rotation of said control device, said head portion having a smaller diameter than the head proper to provide an annular shoulder at the base of said portion.

2,652,735
OPEN-END WRENCH
Glenn W. Wilder, Sutherlin, Oreg.
Application March 22, 1949, Serial No. 82,397
3 Claims. (Cl. 81—119)



3. An open-end wrench for use with hexagonal-headed threaded members, the width of the hexagonal heads of said members between parallel sides being designated by the symbol *w*, the width across corners by the symbol *w'*, and the length of each side by the symbol *f*, said wrench being bifurcated to form a recessed portion at one end having a long jaw and a short jaw, the depth of bifurcation being substantially equal to *w'*, the distance between the outer extremities of said long jaw and said short jaw being slightly greater than *w*, said wrench having an abutment limiting effective inward movement of said head within said bifurcation to a distance substantially equal to *w'*, said long jaw adjacent its outer extremity having a side-engaging flat pad, substantially parallel to a first side of said head when said head is in contact with said abutment, extending inward from said extremity a distance substantially less than *f*, said short jaw having an arcuate fulcrum adjacent its inner end engaging a second side of said head opposite said first side, said fulcrum being positioned so that when said head abuts said abutment said fulcrum contacts said second side outwardly from the inner corner thereof a distance less than ½ *f*, the distance between said flat pad and a reference line drawn tangent to said fulcrum and parallel to said flat pad being slightly greater than *w*, said short jaw, extending outwardly beyond said fulcrum a distance greater than *f*, being arcuately inwardly recessed beyond said fulcrum to provide clearance for a corner of said hexagonal head without removal of said head from between said jaws when said wrench is manually indexed in order to shift said fulcrum into contact with the next side of said head, said long jaw being arcuately recessed inwardly of said pad to provide clearance for an adjacent corner of said head when said wrench is manually indexed.

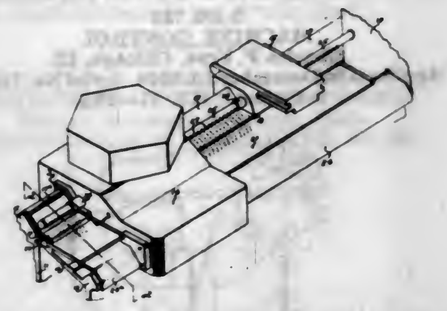
2,652,736
WRENCH EXTENSION HANDLE
Louis H. Kiene, Pasadena, Calif.
Application January 19, 1951, Serial No. 206,801
1 Claim. (Cl. 81—177)

In an extension for a tapered wrench handle having an opening in its end, a bar having one side in contact with one side of said handle and including an enlarged terminal section, a bracket arranged contiguous to said one side of said bar and including a pair of flat aligned portions, and an intermediate offset portion defining a tapered socket for receiving said wrench handle, securing elements extending through



said flat portions and through said enlarged section, said securing elements being arranged on opposite sides of said socket, and a securing element extending through said bar, through the opening in said wrench handle, and through said offset portion.

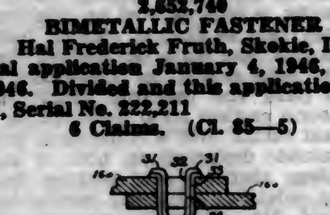
2,652,737
CHIP FLUSHING MEANS FOR BEDS OF MACHINE TOOLS
James R. Longstreet, Bedford, Ohio, assignor to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio
Continuation of application Serial No. 585,716, March 30, 1945. This application June 24, 1950, Serial No. 170,153
3 Claims. (Cl. 82—34)



3. In a machine tool having a bed provided with longitudinally extending front and rear ways, slides movable on said ways, guard members for said ways, a guard plate for the top of the bed intermediate said ways, said guard members and said guard plate having overlapping longitudinal edges and forming a continuous surface rearwardly declined from the front way to and beyond the rear way, a conduit extending longitudinally of the bed adjacent the rear side of the front way and adapted to be connected to a fluid supply source, said conduit being provided with longitudinally spaced openings, said slides being provided with sleeves movable therewith and extending therethrough and slidably interfitting said conduit and acting as valves during slide movements to successively seal and uncover certain of said openings.

2,652,738
LOCKING ARBOR
Felke K. Carlson, Mount Kisco, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York
Application October 26, 1950, Serial No. 192,269
1 Claim. (Cl. 82—43)

A work holding arbor provided with a cylindrical portion having a longitudinal angular recess projecting inwardly from the surface thereof, the bottom of said recess lying in a plane parallel to the axis of said cylindrical portion, a roller in said recess having an enlarged bulbous portion intermediate its length, the diameter of said bulbous portion increasing from each end thereof, said bulbous portion being positioned to



engage a limited area of one surface of the bore of a work piece placed on said cylindrical portion to draw the diametrically opposite surfaces of the bore of the work piece tightly against said cylindrical portion and to lock said work piece on said arbor.

2,652,739
VIOLIN REST
Joseph E. Hall, San Diego, Calif.
Application December 19, 1949, Serial No. 133,880
7 Claims. (Cl. 84—280)



1. In a device of the character described, the combination of a shelf-like support, means for detachably clamping said support to the bottom back of a violin; a three-part shoulder pad, two of which parts are in swiveling relation one with the other, and are provided with opposed sets of contacting steps progressive in height and upwardly inclined, whereby upon the swiveling of said movable parts the said pad may be adjusted at different heights; and means for detachably securing said pad to the bottom of said support.

2,652,740
BIMETALLIC FASTENER
Hal Frederick Fruth, Skokie, Ill.
Original application January 4, 1946, Serial No. 639,046. Divided and this application April 21, 1951, Serial No. 222,211
6 Claims. (Cl. 85—5)



1. A joint construction of the class described comprising, in combination, two structural members disposed in overlapping relation to each other and having a pair of alined holes defined therein, and a temperature responsive fastener adapted to extend through said holes to secure said members in assembled relationship, said fastener comprising a substantially rectangular laminated strip folded to present a pair of generally parallel shanks interconnected at one end by an intermediate portion of said strip, the opposite ends of said shanks being flanged outwardly in opposite directions to form an enlarged abutment, said laminated strip including inner and outer bonded layers of materials having unlike temperature coefficients of expansion, said layers being arranged to cause said shanks to move toward each other upon exposure to abnormal temperatures to enable said fastener to be inserted into said holes, said bonded layers further acting upon return to normal temperatures to spread apart said shanks and cause firm engagement of said intermediate portion and said abutment with said overlapping members.

2,652,741
BLIND RIVET WITH CLINCHER
Milo C. Ketchum, Altadena, and James O. Huffman, Los Angeles, Calif., assignors to Cherry Rivet Company, Los Angeles, Calif., a corporation of California
Application August 4, 1950, Serial No. 177,635
6 Claims. (Cl. 85—40)



1. In a blind rivet, a rivet body having a head and a shank with a bore extending therethrough, a mandrel extending through said bore, an enlarged plug on said mandrel of a size to enter and expand the entire shank of the rivet when the mandrel is drawn through the shank and being at least substantially as long as said rivet shank, said plug having a shank entrant end and a trailing end, an enlarged head on the end of the mandrel adjacent the trailing end of the plug and of greater size than the plug, a clincher on the mandrel lying about said plug, the forward portion of the clincher being more readily expandable than the end portion adjacent said mandrel head, said clincher being movable relative to said plug and the clincher lying about the plug and extending from adjacent the entrant end of the plug rearwardly to the mandrel head, said rivet shank, clincher and mandrel head having substantially equal and aligned peripheries.

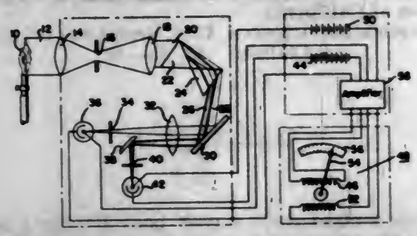
2,652,742
MONOCHROMATOR
Alan Walsh, Canterbury, Victoria, Australia, assignor to Commonwealth Scientific and Industrial Research Organization, East Melbourne, Victoria, Australia, a body corporate
Application August 7, 1951, Serial No. 240,737
In Australia November 9, 1950
4 Claims. (Cl. 88—14)



1. In combination with a single monochromator having a dispersion system for directing a selected wave-length of radiation from a source to an exit slit, and recording accessories; additional mirrors within said monochromator positioned to reflect back radiation of a given wave length which has passed through said dispersion system of said monochromator and causing said

radiation to pass repeatedly through said dispersion system before passing through said exit slit of said monochromator, a radiation chopper arranged to interrupt at a given frequency only that radiation which passes repeatedly through said dispersion system a predetermined number of times before passing through said exit slit, a detector positioned to respond to the radiation passing through said exit slit, and an amplifier receiving the detector output and tuned to said given frequency.

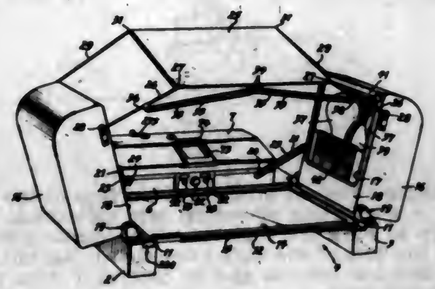
2,652,743
OPTICAL APPARATUS FOR MEASURING TEMPERATURE
William J. Morrow, Dayton, Ohio
Application January 20, 1950, Serial No. 139,694
2 Claims. (Cl. 88—22.5)



1. In a radiation pyrometer: an objective lens system for receiving a single beam of radiation from a source of temperature subject to rapid fluctuations which are to be measured, means forming a slit on which the lens system focuses the beam, a pair of photoelectric detector means, means including prisms interposed between the slit and the detector means to disperse the received beam into two separate beams of spaced wave-lengths and to focus the separate beams on their respective detector means, a collimating lens between the slit and the prism for collecting the radiation from the slit and directing it as parallel rays to the prism, and a ratiometer for continuously measuring and indicating the ratio of the impulses from said detector means, said ratiometer having an indicating arm and two separate coils for influencing the movement of said arm, said coils having their magnetic fields in direct opposition, one of the coils being connected in an electrical circuit with one of the detector means, and the other coil being connected in an electrical circuit with the other detector means, each of said coils responding to its respective detector means to move said arm whereby the position of said arm continuously indicates the temperature of said source irrespective of any fluctuations thereof.

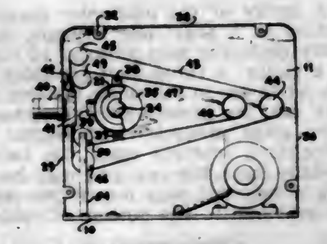
2,652,744
PHOTOGRAPHIC COPYING APPARATUS
Emanuel Goldberg, Tel Aviv, Israel, assignor to Bell & Howell Company, a corporation of Illinois
Application June 1, 1950, Serial No. 165,422
14 Claims. (Cl. 88—24)

1. In a photographic copying apparatus, the combination of means establishing the photographing position of an article, two illuminating lamp containing housings mounted respectively at opposite sides of said photographing position for pivotal movement from positions extending upwardly from said photographing position respectively on opposite sides thereof to alined positions closely overlying said photographing position, said housings being provided with light openings directed across an article in said photographing position when said housings are in their upwardly extending positions, and a reflector for reflecting an image of an article at said photographing position for the photographing thereof and mounted for movement with respect to said housing from a position spaced



above said housings when they are in said first mentioned positions thereof and facewise above said photographing position and inclined to the plane thereof in a vertical plane traversing the other sides of said photographing position to a position closely overlying said lamp housings when they are in their second mentioned positions.

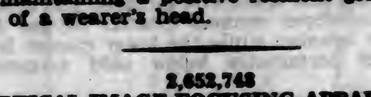
2,652,745
DIRECT READING PROJECTION CLOCK APPARATUS
Francis J. Quinn, Upper Darby, Pa.
Application November 7, 1950, Serial No. 194,462
9 Claims. (Cl. 88—24)



1. In a direct reading projection clock, a supporting casing, a lens carried by said casing, a lamp within said casing, a picture frame between said lens and lamp, an endless film strip mounted in said casing for movement over a continuous path and carrying hourly designations, a second endless strip mounted for movement in said casing over a continuous path and carrying minute designations, both of said film strips passing through said picture frame in overlapping relation, actuating mechanisms for each of said film strips for moving said film strips with a step by step motion, and timing means for causing said actuating mechanism to operate at appropriate intervals.

2,652,746
EYEGLASSES FRAME WITH DETACHABLY MOUNTED LENSES
Robert Randolph Shanks, Dallas, Tex.
Application December 11, 1950, Serial No. 200,146
2 Claims. (Cl. 88—47)

1. In eye glasses; a frame; lens openings in said frame; a socket on the inner side of each lens opening; a spring catch on said frame adjacent each lens opening; said catch extending outwardly from the frame and being curved away from the lens opening; a hole in each said catch; a lens carried in each lens opening; an extension on each lens releasably inserted into one of said sockets; and another extension on each



lens releasably fitted in a hole in a catch said extension being arranged to engage the curved surface of the catch when the first named extension is inserted in the socket to thereby spring the catch outwardly when pressed thereagainst to thereby permit the second named extension to enter the hole in the catch.

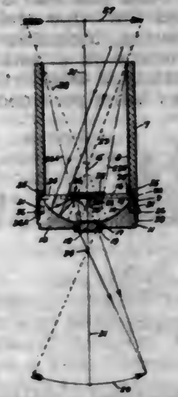
2,652,747
EYEGLASSES FRAME WITH SPRING BIASED TEMPLE ARMS
Le Roy E. Malcek, Chicago, Ill.
Application July 12, 1950, Serial No. 173,491
3 Claims. (Cl. 88—53)



1. In combination in an eyeglass frame and temple arm assembly, an eyeglass frame having at one end a temple arm supporting portion including an oblique surface providing a stop shoulder facing generally toward the inner side of the frame and endwise, a temple arm, said temple arm having an end surface providing a stop shoulder oblique to the axis of the temple arm and generally complementary to and facing generally toward said stop shoulder on the frame, hinge means connecting the frame and temple arm and having its axis adjacent to said shoulders, said axis being substantially aligned with and parallel to said shoulders, one of said shoulders having a socket therein on an axis normal to such shoulder, and a coiled compression spring of a length to project beyond said socket and having an end portion secured in said socket so that the spring will not escape from the socket, said spring projecting substantially beyond the socketed shoulder and being releasably engageable at its projecting end by the other of said shoulders for compression of said spring when the temple arm is swung open, whereby to bias the temple arm toward collapsed relation for maintaining a positive resilient grip on the side of a wearer's head.

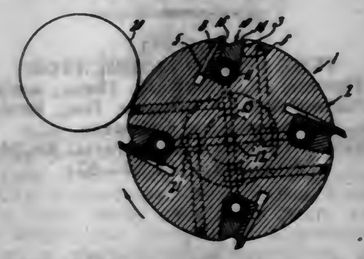
2,652,748
OPTICAL IMAGE FOCUSING APPARATUS
Charles R. Croy, Essexe, Mich.
Application August 15, 1951, Serial No. 241,973
15 Claims. (Cl. 88—57)

1. In a device of the character described in combination, a tubular member, an end closure member forming a concave mirror, a centrally positioned opening in the concave mirror, an assembly incorporating an iris diaphragm, a shutter and lens elements in said opening and in axial alignment, a plane mirror suspended by inconspicuous wires in said tubular member and located between the surface of the concave mirror and its center of curvature, whereby a focused image is placed on said plane mirror, there being means on said end closure member and said tubular member for adjusting the distance



between said mirrors by rotating the tubular member.

2,652,749
TOOLHOLDER
Heinrich Hagmeister, Herford, Germany
Application October 17, 1951, Serial No. 251,673
7 Claims. (Cl. 90—11)

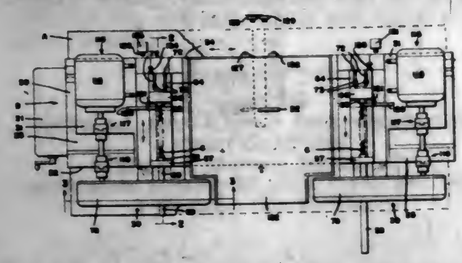


1. A tool holder for mounting and holding cutting tools comprising a substantially cylindrical holder body having a recess and adapted to be rotated about a support, at least one cutting tool mounted in said recess of said holder body for slidable adjustment whereby the cutting edge of said tool can be adjusted with respect to the periphery of said holder body, a source of fluid under pressure, pressure responsive clamp means carried within said holder body and engageable with said cutting tool for clamping the latter in predetermined position of adjustment, and conduit means for connecting said source to said clamp means.

2,652,750
MILLING FIXTURE
Richard C. Lacy, Wilmington, Ohio, assignor to The Irwin Auger Bit Company, Wilmington, Ohio, a corporation of Ohio
Application February 17, 1949, Serial No. 76,935
9 Claims. (Cl. 90—11.62)

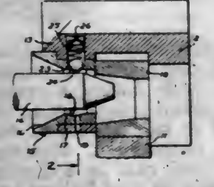
1. In a milling fixture for a milling machine, workpiece moving means, including a reciprocating and rotating bit driver having a socketed driver head for one end of the workpiece and an elongated cylindrical shank provided with an elongated longitudinally-extending keyway, a first spur gear keyed to said shank, means releasably retaining said gear against reciprocation in planes normal to its axis of rotation, a second spur gear, means for selectively moving said sec-

ond spur gear into and out of mesh with said first spur gear; reciprocating means for reciprocating said bit driver when one end of a workpiece is held thereby and the other end is held by said reciprocating means, including a reciprocating member, reciprocable in a path paralleling the path of reciprocation of said bit driver, said reciprocating member being provided with a bearing



for said driver head and a rotating socketed portion for the other end of said workpiece, an elongated lead screw operatively connected with said reciprocating member with its axis of rotation substantially paralleling the axis of rotation of said bit driver, and a third spur gear fixedly mounted upon said lead screw; a fourth spur gear; and means operatively connecting said second, third and fourth spur gears to rotate in unison.

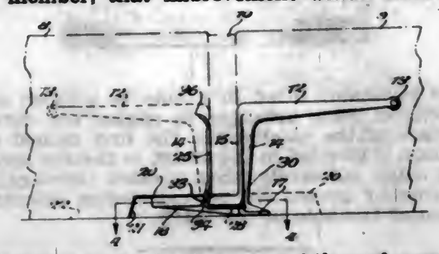
2,652,751
TUBE SIZING LUBRICATOR
Jacob Fischer, Jr., Stratford, Conn., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application January 6, 1951, Serial No. 204,770
2 Claims. (Cl. 93—83)



1. Apparatus for the sizing of a tubular workpiece, comprising a workpiece supporting arbor, a sizing die, a holder for said die, a bushing in said holder held in alignment with said die when said die is in working position, said bushing comprising an aperture bounded by a surface adapted for engagement by a workpiece on said arbor and a ring groove intersecting said surface, communicating lubricant delivering passages through said holder and said bushing adapted to deliver lubricant to said ring groove, and lubricant delivery controlling means in said passage and projecting into said aperture in spaced relationship with said arbor and adapted for displacement by a workpiece on said arbor.
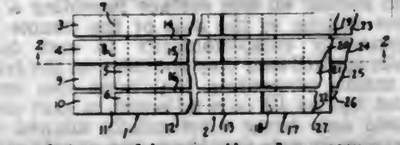
2,652,752
ROAD JOINT CONNECTION
Alfred F. Crane, Kenmore, N. Y., assignor to Acme Steel & Malleable Iron Works, Buffalo, N. Y.
Application April 5, 1950, Serial No. 154,024
6 Claims. (Cl. 94—8)

1. In a joint support for a road joint between two adjacent pavement slabs and separated by a joint filler, said joint support including an anchoring member extending in a direction to be embedded in one of said slabs, an abutment member extending downwardly from said anchoring member to abut against one face of the joint filler, a supporting member integral with the lower end of said abutment member and adapted to extend below said filler and a part of the other slab, and a cover member covering said supporting member, that improvement which includes



a clamping spring having one end thereof secured to said support, a part of said clamping spring above said end having a bend extending over said cover member for holding the same in correct relation to said supporting member, said clamping spring having an upwardly extending part arranged in spaced relation to said abutment member to form a space into which said filler may be inserted for holding said joint support on said filler.

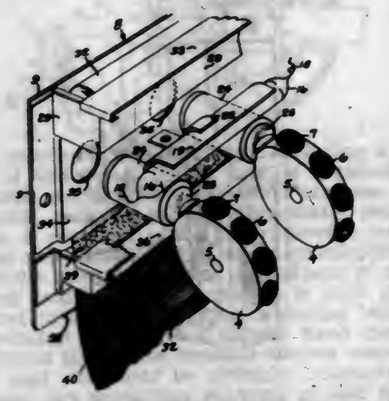
2,652,753
INTERMESHING SECTIONAL MATTING
Edwin Excel Smith, Eagle Lake, Tex.
Application January 25, 1950, Serial No. 140,377
6 Claims. (Cl. 94—13)



1. An intermeshing sectional matting section adapted for use in a roadway comprising at least one pair of parallel extending upper runners and one pair of lower runners extending parallel thereto, each of said lower runners lying under one of said upper runners, said runners extending substantially parallel to the longitudinal axis of said roadway, said runners being connected to spaced apart transverse members extending between said upper and lower runners, at least one of said upper runners terminating on a transverse member while the runner lying thereunder extends beyond said transverse member, and at least one of said upper runners extends beyond said transverse member while the lower runner lying thereunder terminates below said transverse member.

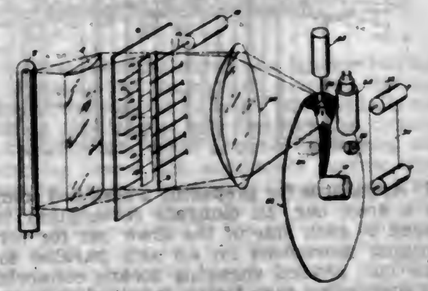
2,652,754
PHOTORECORDING MEANS
Frank G. Dedek, Detroit, Mich., assignor to Burroughs Corporation, Detroit, Mich., a corporation of Michigan
Application May 22, 1951, Serial No. 227,578
5 Claims. (Cl. 95—1.1)

1. In combination with indicating means of the kind comprising visual data-representing characters on indicating members movable to selectively position such characters at a reading line, the combination of a supporting means, an electronic flash tube capable of producing illumination of high intensity and short duration carried by said supporting means close to said reading line in position to illuminate intensely the data-representing characters at said reading line, said flash tube having an exterior electrode partially surrounding said flash tube and forming a shield having a surface for reflecting a portion of the illumination from said flash tube onto the data-representing characters at said reading line, optical means carried by said supporting means, focused on the characters at said reading line and producing images of said characters in an image focal plane, means on



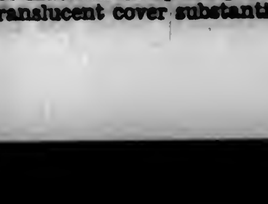
said supporting means to guide and position photo-sensitive sheet record material in the image focal plane of said optical means, said exterior electrode shielding said illumination from said sheet record material, developer applying means carried on said support in position to apply developer to the exposed surface of said sheet record material as it is withdrawn from said record material guiding and positioning means, and means to operate said illuminating means.

2,652,755
PHOTOGRAPHIC COMPOSING APPARATUS
René Higonnet and Louis Moyroud, Cambridge, Mass., assignors to Graphic Arts Research Foundation, Inc., Cambridge, Mass., a corporation of Delaware
Application March 16, 1950, Serial No. 150,024
In France March 17, 1949
7 Claims. (Cl. 95—4.5)



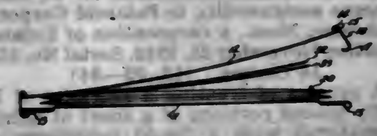
1. In photographic type composing apparatus, the combination of a rigid character carrier, continuously rotatable in one direction and bearing the characters to be photographed and corresponding code areas, each code area comprising a representative combination of transparent and opaque sub-areas and having an edge in precise spatial relation to a point in a corresponding character, a fixed illuminated object, means for focusing on the character carrier a stationary image of said object corresponding substantially in size and shape to a code area and having an edge in position to become coincident with said edges of each of the code areas successively, means for selectively blocking sections of the object corresponding to the combination of sub-areas representing a single selected character, a single photo electric device to receive light passing through the transparent sub-areas, and projection means actuated by the photoelectric device when said light is reduced substantially to zero by reason of said edges of the selected code area and image reaching coincidence, to project the code-selected character on to a sensitized surface.

2,652,756
PRESS FOCUSING DEVICE FOR PHOTOGRAPHIC DIAPHRAGMS
Frederick P. Willcox, Bethesda, Md., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Original application January 24, 1948, Serial No. 4,114, now Patent No. 2,527,781, dated October 31, 1950. Divided and this application March 1, 1950, Serial No. 147,125
3 Claims. (Cl. 95—64)



1. A diaphragm opening arrangement for photographic cameras comprising a housing, a diaphragm blade ring having peripheral gear teeth and a diaphragm setting ring having peripheral gear teeth, said rings being coaxially placed within said housing at a predetermined distance, a mechanical intercoupling between said rings including an actuating gear for said first-mentioned ring having a shaft, an idler gear on said shaft, gearing means interconnecting said idler gear and said diaphragm setting ring, a pinion keyed to said shaft, unidirectional coupling means on said shaft driven by said idler gear, means for coupling said pinion and said unidirectional coupling means, a sector gear meshing with said pinion, spring means urging said sector gear in one direction, a manually operable focusing lever for positioning said sector gear, and thereby opening said diaphragm the relative position of said unidirectional coupling means determining the extent of movement of said sector gear upon release of said lever in closing said diaphragm.

2,652,757
PHOTOREPRODUCTION DEVICE
Frederick P. Robbins, Highland Park, Ill.
Application June 7, 1949, Serial No. 97,633
3 Claims. (Cl. 95—76)



1. A reproduction device for exposing light sensitive sheet material comprising a rigid backing plate, a translucent cover substantially coexten-

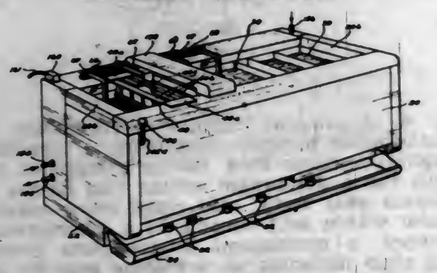
sive with said backing plate, said cover being resiliently warped in one direction from a planar configuration to define a convex undersurface, clamping means movably connected to the plate and cover at each of two opposite sides and each having spaced parallel members in contact with the adjacent plate and cover sides connected thereby for maintaining the plate and cover in spaced apart relation, and an inflatable bladder inserted between said cover and said plate and having an inflated thickness in a free state greater in dimension than said spaced apart relation therebetween, said bladder serving to maintain light sensitive sheet material interposed between said cover and said bladder in flatwise contact with the normally convex under surface of said cover, said cover being resiliently deformed from its warped configuration to a substantially planar configuration by air pressure in said bladder, when said cover is held by the clamping means and the bladder is inflated.

2,652,758

AGITATING DEVICE FOR PHOTOGRAPHIC, LIQUID DEVELOPER

Robert Sardeson, John F. Braden, and Conrad E. Lee, Minneapolis, Minn., assignors to Pako Corporation, Minneapolis, Minn., a corporation of Delaware

Application November 22, 1949, Serial No. 128,882
14 Claims. (Cl. 95—89)



10. An agitating device having in combination, a container for a solution for treating photographic sheets, means for suspending a pair of photographic sheets in said container with said sheets disposed in parallel planes, said container being of greater dimension than the transverse dimension of said sheets, rigid plate-like vanes disposed between and at the remote sides of said sheets and in planes substantially perpendicular to the planes of said sheets, a member extending across said sheets above the same to which said vanes are secured, means above said container for reciprocating said member and vanes with uniform velocity across and adjacent said sheets and beyond the same some instance at each side thereof.

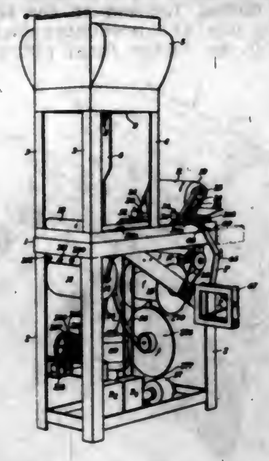
2,652,759

APPARATUS AND PROCESS FOR TREATING LIGHT-SENSITIVE MATERIALS WITH LIQUID

William Bernemann, Rochester, N. Y., assignor, by mesne assignments, to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware

Application November 25, 1949, Serial No. 129,458
14 Claims. (Cl. 95—94)

10. A process of treating a plurality of longitudinally spaced portions of a sheet of light-sensitive material with a liquid processing agent which comprises the steps of advancing said sheet lengthwise to successively locate each of said portions in processing position; advancing a strip comprising a plurality of containers, each carrying the liquid processing agent, transversely across the path of movement of said light-sensitive material to position a container of said strip adjacent one edge of the portion of said sheet in processing position; holding the light-sensitive sheet and said container stationary rela-



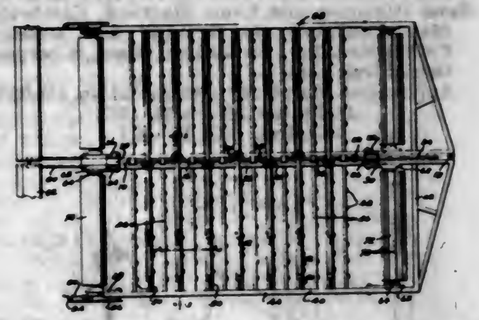
tive to one another and dispensing the contents of the container over the adjacent portion of said light-sensitive sheet; and thereafter advancing the container strip and the light-sensitive sheet across one another to locate another container of said strip in position for releasing its contents over another portion of said light-sensitive sheet.

2,652,760

APPARATUS FOR PREPARING SEEDBEDS

Calvin G. Card, Waukena, Calif.

Application January 10, 1951, Serial No. 205,363
4 Claims. (Cl. 97—44)



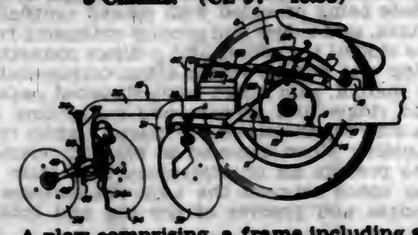
1. Apparatus for preparing a seed bed comprising a draw bar, an elongate rectangular frame hinged to each side of the draw bar for vertical swinging movement on an axis parallel to the draw bar, ground engaging means connected to and supporting each frame, longitudinally spaced transversely extending rows of depending harrow teeth carried by and fixed to each frame, cross heads mounted on the frames for transverse reciprocal movement, depending earth pulverizing blades carried by the cross heads for movement therewith relatively to the fixed harrow teeth, and means carried by the draw bar and connected to the cross heads for reciprocating said cross heads and moving the earth pulverizing blades.

2,652,761

PLOW

Eugene C. Gibson, Atlanta, Ga., assignor to Southern Iron & Equipment Company, Atlanta, Ga., a corporation of Georgia

Application October 2, 1946, Serial No. 700,666
3 Claims. (Cl. 97—46.05)



1. A plow comprising, a frame including a plurality of individual beams having longitudinal horizontal portions and depending portions, said horizontal portions being substantially parallel and in a common plane, a transverse weight member extending between said parallel portions and rigidly fixed thereto for the purpose of rigidly fixing said beams with respect to each other, a second transverse member extending between said parallel portions and rigidly fixed thereto, said second transverse member having means to which said plow may be pivotally connected to a tractor, the depending portions of said beams extending downwardly and toward the free ends of said horizontal portions, a disc type furrow opener mounted for rotation on the lower ends of each of said depending portions, and means including a lever arm extending from said rigid frame above said first pivotal means to which a pivotal means may be connected to a tractor for resisting pivotal movement about said first pivotal means.

2,652,762

ONE-WAY DISK PLOW

Hubert E. Ashley, Dallas, Tex.

Application October 6, 1948, Serial No. 53,059
2 Claims. (Cl. 97—47.5)



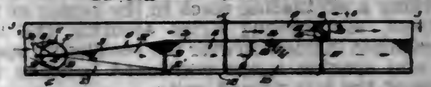
1. A plow for attachment to a tractor having a rear lift including, an upright A-frame having a horizontal drawbar at its lower end pivotally connected to the tractor lift whereby the drawbar and A-frame may pivot about a horizontal axis, an angular frame, an adjustable furrow wheel supporting the rear portion of the angular frame, a plurality of disc blades carried by said angular frame, a hitch secured to the forward portion of said angular frame and pivotally attached to the drawbar, bars fastened to the forward portion of said angular frame and pivotally attached to the intermediate portion of said A-frame, the hitch and bars being pivotal about an upright axis to permit said angular frame to undergo pivotal movement transversely of the drawbar and A-frame, and a link pivotally connected to the tractor and the upper end of said A-frame for limiting pivotal movement of the latter, the link being adjustable in length to pivot said A-frame and raise and lower the forward portion of the angular frame for varying the pressure upon the furrow wheel and the penetration of the disc blades.

2,652,763

AIR DISTRIBUTION SYSTEM

Neville R. Emery and Preston O. Roberds, Chicago, Ill., assignors, by mesne assignments, to Burgess-Manning Company, Libertyville, Ill., a corporation of Illinois

Application October 28, 1949, Serial No. 124,212
11 Claims. (Cl. 98—10)



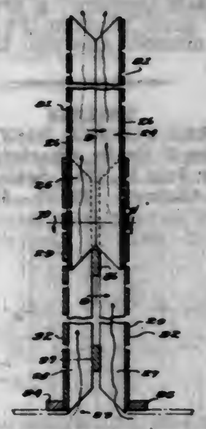
1. An air circulatory system comprising a pair of elongated ducts arranged in adjacent parallel relation to one another to extend along a space to which air is to be supplied, one of said ducts comprising a transversely disposed, air-pervious element paralleling and communicating the same with the other duct, said other duct comprising a transversely disposed, air-pervious panel paralleling and communicating the same with said space to be supplied, said panel defining a wall of the last named duct, a common air intake member to which the forward ends of said ducts open, a single source of air discharging to said common intake member and flowing longitudinally and unidirectionally through both of said ducts, said source, intake member and ducts being arranged in straight longitudinal alignment, a plurality of baffles in said first named duct spaced from one another longitudinally of the duct and disposed in transversely extending relation to said first named air-pervious element, said baffles acting to deflect air traversing the same toward and through said first named air-pervious element, whereby to agitate the air flowing in said other duct, said agitated air issuing from said other duct through said last named air-pervious panel to said space to be supplied, and a plurality of further baffles in said other duct spaced longitudinally thereof and acting to equalize throughout the length of said system the distribution of air so issuing to said space.

2,652,764

UNIVERSAL STRUCTURAL SECTION

Ervin Kahlstorf, Laporte, Minn.

Application June 7, 1950, Serial No. 166,567
2 Claims. (Cl. 98—55)



1. In a corn crib platform, the combination which comprises a plurality of rectangular shaped units each having transversely disposed slats positioned on longitudinally positioned beams, each unit having one corner diagonally cut-off, the

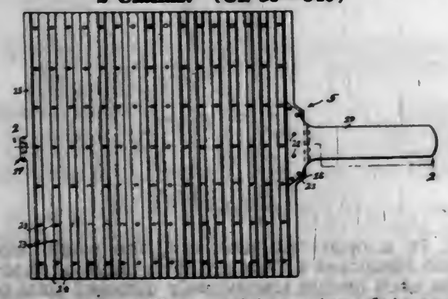
units near the center of the platform positioned with their cut-off corners in meeting relation at the center of the platform providing a ventilating opening and with the outer units positioned with their cut-off corners at the four corners of the platform, a pair of opposed units positioned over the ventilating opening in the center of the platform with their beams extended inwardly providing a ventilating stack in the center of the platform, and nailing strips securing the last named units in position over the ventilating opening, and spacing strips positioned between the beams of the last named units.

2,652,765
FLAVORING DEVICE
Joseph L. Risco, Los Angeles, Calif.
Application March 26, 1949, Serial No. 83,723
5 Claims. (Cl. 99—345)



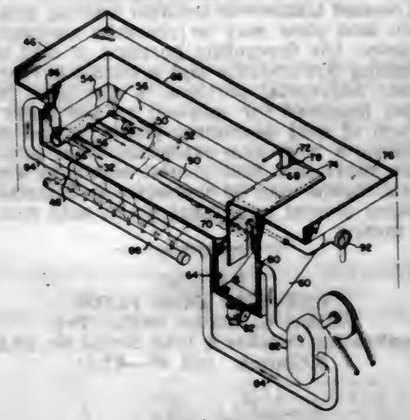
1. A seasoning device of the type described, comprising: a container open at the top thereof and terminating at its lower end in a perforated hollow, tapered tubular member adapted to be introduced into an article of food to be cooked; an annular shoulder formed internally of said container; a perforated receptacle supported on said shoulder, adapted to receive solid condiments for flavoring and seasoning fluids held by said container; and a closure member for hermetically sealing the open end of said container whereby the heat of the cooking operation vaporizes a portion of the condiment flavored fluids to produce within said container a pressure sufficient to force said fluids through the perforations of said tubular member and into the article being cooked.

2,652,766
PORTABLE DOUBLE BACON GRILL
William F. Cralle, Charlotte, N. C.
Application July 18, 1951, Serial No. 237,336
2 Claims. (Cl. 99—349)



1. A double grill comprising a top plate and a bottom plate each provided with a plurality of spaced substantially parallel upwardly offset portions forming parallel ridges and grooves disposed in interfitting relationship to one another when the top plate is disposed upon the bottom plate and substantially parallel thereto, the grooves of said bottom plate being provided with spaced drainage apertures and the ridges of said top plate being provided with spaced ventilating apertures, said ridges and grooves extending from side to side of the plates and a hinge connecting said top and bottom plates along corresponding edges thereof, said hinge being disposed parallel to said ridges and grooves and connecting the plates whereby the plates are spaced slightly from one another when disposed in parallel relationship to provide an uninterrupted food item receiving space between the adjacent surfaces of the ridges and grooves of the top and bottom plates.

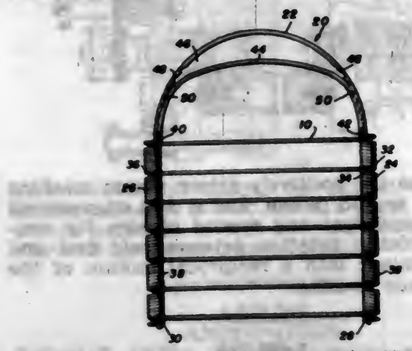
2,652,767
FRYING APPARATUS
Kenneth L. Childs, New Haven, Conn., assignor to Artisan Metal Products, Inc., Waltham, Mass., a corporation of Massachusetts
Application November 27, 1948, Serial No. 62,255
5 Claims. (Cl. 99—408)



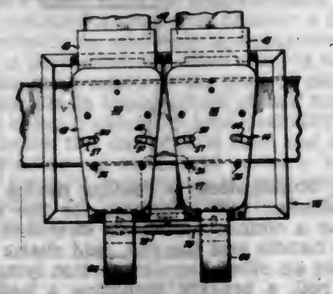
1. Frying apparatus for treatment of food articles, having a sheet metal kettle arranged to provide a frying zone containing heated fat or oil and formed with a bottom having a plurality of entirely submerged corrugations, into the valleys of which the frying residue is carried and means for heating the bottom of the kettle, in combination with unitary means having jets spaced apart horizontally the same distance as the corrugations for projecting currents of fat along the valleys of the corrugations to sweep the frying residue out of the frying zone and arranged to induce rotating currents of fat within the frying zone and a sump disposed in line with all the corrugations at a lower level than said valleys to receive the residue swept along the valleys by the projected current.

2,652,768
COOKING PAN
José H. Merene, San Pedro, Calif.
Application July 9, 1951, Serial No. 235,796
4 Claims. (Cl. 99—417)

1. A cooking apparatus comprising a plurality of vertically spaced perforated plates, a U-shaped bail having spaced legs interconnected by a web, said legs straddling said plates, resilient means carried by said legs and maintaining said plates spaced apart, and means operatively connected to said web for adjusting the space between said plates and acting against said resilient means, said means operatively connected to said web including an arcuate rod disposed within the confines of said web and terminally secured to the upper ends of said resilient means, and means for releasably retaining said rod in adjusted positions on said web, said releasable retaining means including spaced, inclined teeth in the inner surface of said web adjacent said legs and spaced similarly inclined teeth in the outer surface of said rod adjacent said springs and engaging said web teeth.

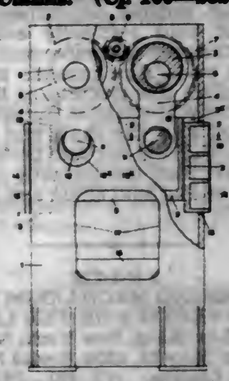


2,652,769
APPARATUS FOR EXTRACTING JUICE FROM CITRUS FRUITS
Robert D. Wehr, Lakeland, Fla.
Application July 26, 1951, Serial No. 237,735
1 Claim. (Cl. 100—131)



Apparatus for extracting juice from citrus fruit comprising a base having a juice receiving opening therein, upper and lower parallel pulley supporting plates on said base on opposite sides of said opening, a set of pulleys mounted between each pair of upper and lower plates and journaled therein for rotation, an endless belt on each set of pulleys, said pulleys of each set being positioned to cause adjacent runs of said belts to define the lateral edges of a converging squeezing zone overlying said opening, the pulley of each set at the narrower end of said squeezing zone constituting a driving pulley and being fixedly mounted on a hollow shaft, a pair of parallel driving shafts extending upwardly from said base through the lower of said plates and into splined driving engagement with the hollow shafts of said driving pulleys, said plates being pivotally adjustable about said driving shafts to vary the lateral dimensions of said squeezing zone, and means for releasably securing said pairs of plates to said base whereby said plate, pulley and belt assemblies are bodily removable from said base and said driving shafts.

2,652,770
POWER PRESS
Edward W. Wilkins, Tettenhall, Wolverhampton, England, assignor to Wilkins & Mitchell Limited, Darlaston, England
Application August 8, 1950, Serial No. 178,196
In Great Britain August 17, 1949
3 Claims. (Cl. 100—282)



1. A power press comprising front and back plates arranged in substantially parallel spaced relation, said plates being provided with work receiving access openings of substantially less width than said plates adjacent the lower ends thereof, a pair of side plates of less width than said front and rear plates arranged in substantially parallel relation and extending between the edges of said front and back plates substantially the height of said front and back plates and secured thereto for providing a rigid frame, said side plates being provided with openings extending a substantial portion of the width of said side plates, a bolster mounted on said front and rear plates and resting on the lower edges of the openings therein, a shaft rotatably mounted in said front and rear plates above the openings therein, an eccentric on said shaft, a slide positioned in said frame and mounted for up and down sliding movement, a connecting rod extending from said eccentric to said slide for causing sliding movement thereof, and gibs mounted on said side plates and extending into said openings therein and engageable with said slide for guiding the same in vertical movement, said slide being of a size to be inserted into said frame through the openings in said side plates, the bottom edge of said side plate openings being at a higher level than the top of said bolster.

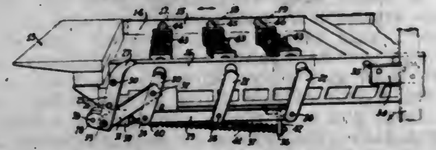
2,652,771
APPARATUS FOR PRINTING DESIGNS ON CYLINDRICAL BODIES
José Valiela Fernández, Buenos Aires, Argentina
Application January 18, 1951, Serial No. 206,765
In Mexico December 16, 1950
3 Claims. (Cl. 101—38)



1. In an apparatus for printing upon cylindrical ceramic cups and the like having a printing carriage with a printing transfer sheet adjustable under the ceramic cups, an article supporting device for holding the cups in printing position, comprising an elongated and horizontally ex-

tending base plate, a pipe mounted in said base plate to extend vertically therefrom, a vertically adjustable shaft mounted in said pipe, a bushing extending laterally from the upper end of said vertically extending shaft, a vacuum retaining device rotatable upon said laterally extending pipe and adapted to receive the cylindrical ceramic cup whereby to support the cup for rotation and for vertical adjustment, and spring means urging said vertically extending shaft downwardly through said pipe, said printing carriage moving under the ceramic cup and along the base to effect the printing of the cup as the latter is rotated and while at the same time being held downwardly by the shaft and by the action of the spring, and said vacuum device being operable to suck air from the laterally extending pipe on the upper end of said shaft and from the vacuum retainer.

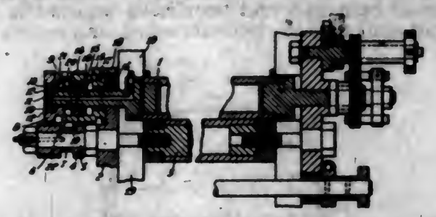
2,652,772
SKIP-NUMBERING MECHANISM FOR PRINTING PRESSES OR THE LIKE
Nathan Katz, New York, N. Y.
Application May 27, 1950, Serial No. 164,802
9 Claims. (Cl. 101—72)



1. In combination with a cylinder type sheet fed printing press having a frame and a horizontally reciprocated type bed; at least one center drive numbering machine fixed on said bed with its axis extending transversely relative to the direction of movement of said bed, a transversely extending shaft operatively connected to said numbering machine and rockably extending through a side wall of said bed, a crank arm fixed on said shaft at the outside of said side wall of said bed, an operating lever pivoted intermediate its ends to said side wall of said bed and swinging in a vertical plane parallel to the direction of movement of said bed, an operating link pivotally connected at its opposite ends to one end of said lever and to said crank arm, and an actuating pin fixed on said frame in the path of travel of the other end of said lever and engaging against said other end of said lever when said bed approaches the limit of its movement in one direction for rocking said lever relative to said bed during the final movement of the latter in said one direction whereby said shaft is rocked to effect rotation of the numbering wheels of said numbering machine.

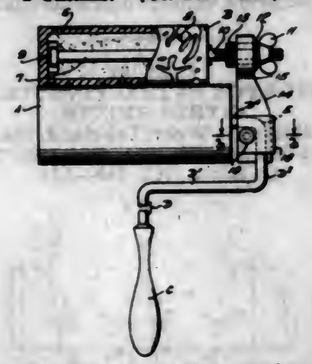
2,652,773
ROTARY PHOTOGRAVURE PRINTING APPARATUS
Angus Murray Halley, Moseley, Birmingham, England
Application June 29, 1950, Serial No. 171,152
In Great Britain May 8, 1950
5 Claims. (Cl. 101—169)

1. In a rotary photogravure printing apparatus means for reciprocating a doctor blade housing comprising in combination, an extension of the doctor blade housing, a first pinion freely rotatable about said extension but restrained from axial movement relative thereto, a second pinion freely rotatable about said extension but restrained from axial movement relative to the apparatus, a pair of positively driven pinions rotatable about a common axis and each meshing with one of said first and second pinions, the gear ratio between said first pinion and the positively driven pinion meshing therewith being different from the gear ratio between the second



pinion and the positively driven pinion meshing with said second pinion, and a cam engagement between said first and second pinions for converting relative rotation between said first and second pinions into a reciprocal motion of the doctor blade housing.

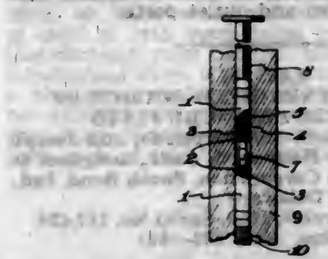
2,652,774
COATING DEVICE
Abraham Sprung, Brooklyn, N. Y., assignor to Decorola Corporation, Brooklyn, N. Y.
Application September 26, 1952, Serial No. 311,006
4 Claims. (Cl. 101—329)



1. In combination, a coating device including an applicator roll, a handle for the applicator roll, and a connecting shank structure connecting the handle and the roll, said shank structure including an offset angular portion lying laterally of the roll, a bracket including a body portion having a relatively wide flat base portion defined in part by straight vertical parallel side walls, said flat base portion being formed with an angular groove for receiving the angular portion of the offset portion of the handle, a clamp plate adapted to overlie said groove to secure the angular portion in its groove, means for fastening the clamp plate in position, and a neck extension for the bracket provided with an elongated longitudinally extending slot, a coating roll mounting adjustably supported in said slot, and a coating roll carried by the coating roll mounting.

2,652,775
PERCUSSION INITIATED DETONATOR
Merrill E. Swansen, Woodbury Heights, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
Application June 6, 1951, Serial No. 230,165
3 Claims. (Cl. 102—27)

1. A detonator assembly comprising in combination a tubular metal shell having one end thereof closed integrally with the sides, an impact-sensitive explosion ignition charge in contact with said end, a metal anvil adjacent to said



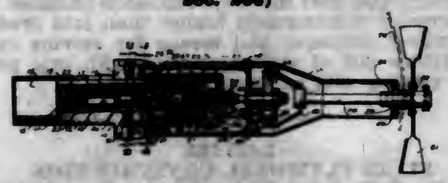
impact-sensitive charge, an explosive priming charge adjacent to said anvil, a main detonator charge adjacent to said priming charge, and a plug sealing the said metal shell.

2,652,776
AMMUNITION
Robert T. Catlin, Stratford, Conn., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application February 22, 1945, Serial No. 579,215
10 Claims. (Cl. 102—56)



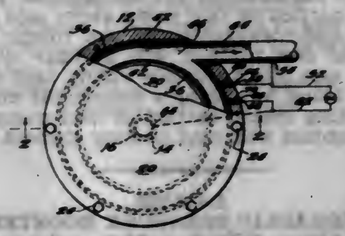
1. A projectile comprising a hollow body having a heel end and a nose provided with an aperture; a core piece movable longitudinally in said body and containing a powder charge; a deformable heel closure on said body in engagement with said core; a percussion sensitive element mounted in said core piece adjacent the nose of said body; and a firing pin in the aperture of said nose, said firing pin being frictionally held normally in said aperture below the end of said nose and adapted on deformation of said heel closure and the resulting forward movement of said core piece in said body to be moved forwardly in said aperture to arm said projectile.

2,652,777
HYDROSTATIC TAIL FUSE
Raymond L. Grausmann, Alexandria, Va.
Application July 15, 1941, Serial No. 402,539
6 Claims. (Cl. 102—70)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A tail fuse for aircraft depth bombs, said fuse comprising, a body member, a stationary booster charge placed therein, a detonator carrier movable within the body member away from said charge and in a direction opposite to the direction of travel of the bomb to which the fuse is adapted to be attached, means responsive to the movement of said carrier for initiating the ignition of said booster charge, and hydrostatic pressure means for moving said carrier, last said means comprising a bellows surrounding said carrier, one end of said bellows being connected to said body member and the other end to said carrier, and means for admitting water to the interior of said bellows whereby detonation of the bomb will not be effected by impact if the bomb should strike an object but only after it has passed through a predetermined depth of water.

2,652,778
ELECTROMAGNETIC CENTRIFUGAL PUMP
Frederick E. Crever, Scotia, N. Y., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission
Application September 6, 1949, Serial No. 114,211
6 Claims. (Cl. 103—1)



1. An electromagnetic pump for electrically conductive fluids comprising, in combination, a partitionless disk-shaped chamber having side walls composed of insulating material and having an enlarged peripheral portion with side walls composed of conducting material and with an outlet suitably disposed therein, an inlet centrally disposed in the disk-shaped chamber with side walls composed of conducting material, a direct potential source between the peripheral portion and the inlet extending radially within the disk-shaped chamber, and means for creating a magnetic field perpendicular of the chamber.

2,652,779
FLUID-OPERATED FREE PUMP WITH PACKING DEVICE
Ralph F. McArthur, Huntington Park, Calif., assignor, by mesne assignments, to Dresser Equipment Co., Cleveland, Ohio, a corporation of Ohio
Application January 16, 1950, Serial No. 138,909
3 Claims. (Cl. 103—46)



1. In a well pumping system which includes a tubing set in the well and provided with a seat

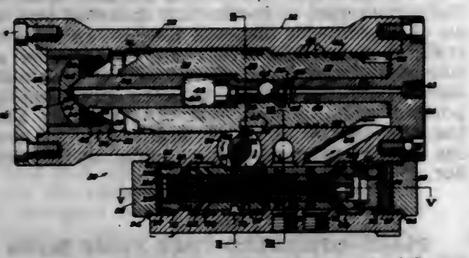
and a sealing collar above said seat, and which includes a fluid-operated free pump movable through said tubing between an operating position at the lower end thereof and the surface of the ground, the external diameter of said pump being less than the internal diameter of said tubing to provide an annular clearance therebetween, said pump being adapted to seat on said seat and carrying a sealing element which engages said sealing collar when said pump is seated on said seat, the internal diameter of said sealing collar and the diameter of said sealing element being less than the internal diameter of said tubing to prevent engagement of said sealing element with said tubing, and said pump having an attachment connected to the lower end thereof and adapted to seat on said seat so that said sealing element is spaced above said sealing collar when said attachment is seated on said seat, the combination of: an annular packing element carried by said pump above said sealing element and engageable with said tubing to prevent fluid flow through said annular clearance between said pump and said tubing, said packing element being formed of a deformable material; and backing means carried by said pump below and in contact with said packing element.

2,652,780

HYDRAULIC PRESSURE BOOSTER

Cecil E. Adams, Columbus, Ohio, assignor to The Denison Engineering Company, Columbus, Ohio, a corporation of Ohio

Application November 2, 1949, Serial No. 125,141
13 Claims. (Cl. 103—47)



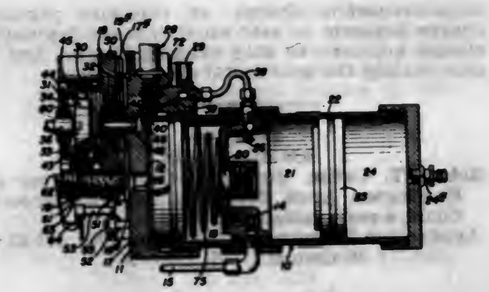
1. A hydraulic pressure booster comprising a body with a motor cylinder and a valve cylinder and inlet and outlet ports communicating with the latter; a motor piston disposed for reciprocation in said motor cylinder, said piston having communicating differential cylinder bores entering opposite ends thereof; a check valve between said cylinder bores; differential pistons supported by said body and disposed in said cylinder bores, said pistons having passages establishing communication between the motor cylinder and the larger of said cylinder bores and between the smaller of said cylinder bores and a high pressure outlet; a second check valve between the motor cylinder and the larger of said cylinder bores; valve means in said valve cylinder for alternately connecting the ends of said motor cylinder with said inlet and outlet ports, said valve means having a valve sleeve; spring means normally centering said sleeve longitudinally of said valve cylinder; means actuated by said motor piston adjacent the ends of its reciprocatory movement to move said valve sleeve toward the ends of said valve cylinder in opposition to its urging means; and a reversing valve disposed for movement in said valve sleeve; said reversing valve being normally urged toward a position to connect predetermined ends of said motor cylinder with said inlet and outlet ports and responsive to fluid pressure when said sleeve is disposed at one end of said valve cylinder to reverse the connections between the motor cylinder and the inlet and outlet ports.

2,652,781

EXPLOSION-ENERGIZED SOURCE OF HYDRAULIC PRESSURE FLUID

Clinton E. Dearderff, San Fernando, and Joseph B. Gunn, North Hollywood, Calif., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application March 3, 1950, Serial No. 147,426
6 Claims. (Cl. 103—54)



1. Apparatus of the type described comprising: a container having end walls and a fixed partition wall dividing said container into two cylinders, a freely movable barrier in each cylinder dividing them into inner and outer chambers, the outer chamber of one cylinder constituting an explosion chamber and the inner chamber constituting a pumping chamber, and the other cylinder constituting a hydraulic accumulator in which the inner chamber is a fluid chamber and the outer chamber is a pressure gas chamber; valve means for introducing gas into said pressure gas chamber; an outlet check valve connecting said pumping chamber to said fluid chamber for passing working fluid from said pumping chamber to said fluid chamber; a source of working fluid at a predetermined pressure; inlet check valve means connecting said source to said pumping chamber for supplying working fluid to said pumping chamber in response to a predetermined decrease in pressure therein below said predetermined pressure; a cartridge containing an explosive; said container having a gas-entry and exhaust port communicating with said explosion chamber; means for placing said cartridge into covering, sealing relation with said explosion chamber port; means for firing said cartridge to deliver explosion gas through said port into said explosion chamber at a pressure substantially higher than said predetermined pressure; and means for moving said cartridge out of sealing relation with said port for venting said explosion chamber.

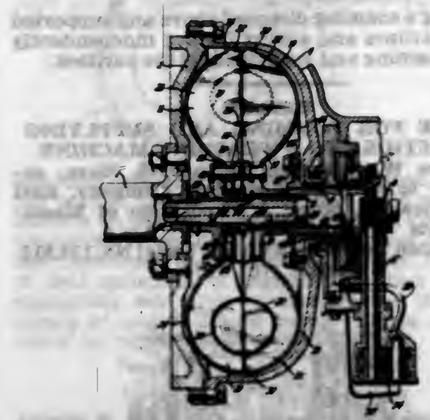
2,652,782

FLUID FLYWHEEL CONSTRUCTION

Walter B. Herndon, Rochester, and Ralph F. Beck and William L. Tuschak, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application May 3, 1949, Serial No. 91,036
3 Claims. (Cl. 103—115)

1. A vaned dual flow path element for a hydraulic torque transmitting mechanism composed of an impeller and rotor assembly having a parting zone therebetween comprising; an outer semi-torus member, a plurality of spaced slots in said torus member extending from the parting zone portion of said torus rearwardly into said torus, an inner semi-torus member, a plurality of slots in said inner torus member extending therethrough from the rear portion thereof and terminating short of the parting zone to provide a continuous surface on said inner torus member adjacent the parting zone, an inner slotted ring, blade members carried by said torus members, each of said blade members having a portion thereof extending through the slots of said outer torus member and a tab adapted to engage the outer surface of said torus member, said blade members having a tab extending into the slots of said inner ring, said blade members having a portion thereof extending through the slots on said inner torus member, and recessed portions on one edge of said blades, said recessed portions of said blades cooperating with the continuous surface of said inner semi-torus member to permit said blades to extend to said parting zone in assembled relationship.

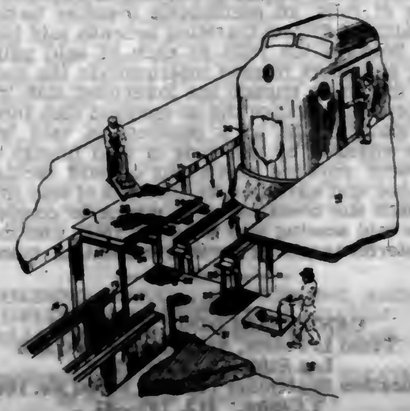


2,652,783

CROSSOVER BRIDGE AND OPERATING MECHANISM

Asa W. Skinner, Riverdale, Ill., assignor to Whiting Corporation, Harvey, Ill., a corporation of Illinois

Application June 2, 1949, Serial No. 96,783
14 Claims. (Cl. 104—31)



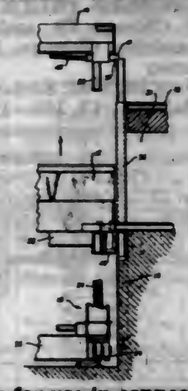
1. A crossover bridge having associated therewith a railway track supported on piers above floor level with an interruption therein including a pit having a bottom below floor level and elevated decks above track level defining a track bay into which a railway vehicle may be moved, comprising a platform having flush-mounted rail sections thereon for alignment with the railway tracks when in lowered position, thereby bridging the interruption in the tracks to permit passage of the railway vehicle and adapted to be raised to deck level for spanning the bay, a bridge member spanning the pit at floor level, a plurality of spaced generally vertical support members fixed to the platform and adapted for raising and lowering therewith, reversible power-operated mechanism for raising and lowering the support members, and stationary means for supporting the platform when in lowered position.

2,652,784

DROP PIT APPARATUS

Louis D. Holmes, Blue Island, and Robert S. Hammond, Winnetka, Ill., assignors to Whiting Corporation, a corporation of Illinois

Application January 14, 1950, Serial No. 138,678
9 Claims. (Cl. 104—32)



1. Apparatus for use in connection with a drop pit of a type having an elongated pit extending transversely beneath a plurality of railway tracks and bridged by a service track top and release track top movable vertically for use in servicing railway vehicle trucks and the like comprising a drop table having a frame movable along rails on the bottom of the pit, a lifting platform on the frame, power means on the frame engaging the lifting platform for driving the platform up and down between an upper position and a lower position, upright posts disposed in the pit beneath the release track top and engageable therewith for lifting the top, means for reciprocally supporting the posts for movement upwardly and downwardly, and spaced opposed members fixed to the lifting platform and projecting laterally therefrom towards the posts for engagement therewith as the lifting platform is raised from its lower position beneath the release track top.

2,652,785

TRACTION MECHANISM FOR COG ROADS

Walter C. Cox, Denver, Colo.

Application October 5, 1951, Serial No. 249,981
1 Claim. (Cl. 105—39)

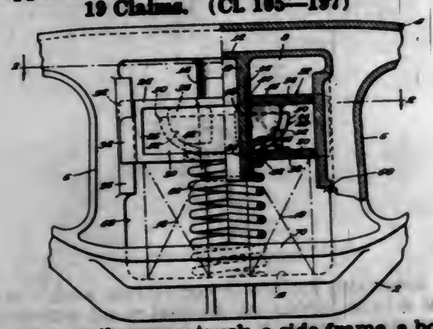
A mechanism for propelling a vehicle of the track guided and wheel supported type comprising a channel-shaped member supported by the track between the car supporting wheels, a resilient cushion in the channel, a sprocket chain means resting on the upper surface of the cush-

ion, and cooperating propelling means on the vehicle, comprising a sprocket wheel mounted for rotation about an axis perpendicular to the movement of the vehicle, the axis being fixed relative to the vehicle to position the sprocket wheel with its periphery a fixed distance below the bottom of the vehicle, the sprocket wheel be-



ing positioned to operatively engage the sprocket chain and compress the resilient cushion directly beneath, whereby the sprocket chain will always be forced against the sprocket wheel thereby assuring a substantially uniform operative pressure between the sprocket wheel and chain at all times.

2,652,786
SNUBBED TRUCK
John J. Kowalik, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application July 16, 1949, Serial No. 105,150
19 Claims. (Cl. 105—197)



1. In a railway car truck, a side frame, a bolster spring-supported therefrom and comprising spaced top and bottom walls and spaced transverse webs interconnecting said walls and forming a pocket therewith, a cylindrical friction post connected to the frame and extending vertically through openings in said walls between said webs, a friction assembly in said pocket comprising a housing separable from the bolster and surrounding the post and presenting diagonal wedge surfaces at opposite sides of the post sloping toward the same, friction shoes at opposite sides of the post in cylindrical face engagement therewith and in wedge engagement with respective surfaces and in frictional engagement with one of said walls, and a spring compressed between said housing and said frame for urging said housing toward said one wall, said housing being loosely fitted in said pocket between said webs to accommodate its rotation with said shoes around the post within the limits of the space between said housing and said webs.

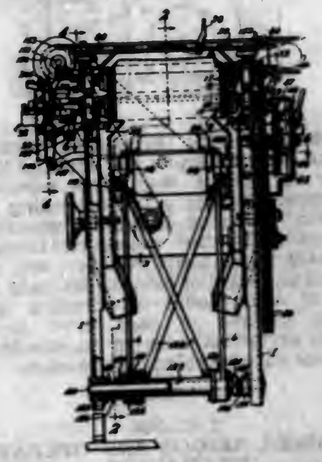
2,652,787
HATCH CONSTRUCTION FOR RAILWAY CARS
William H. Kelsher, Chicago, Ill.
Application March 17, 1950, Serial No. 150,240
17 Claims. (Cl. 105—377)

1. In a hatchway construction for cars, a roof sheet having a hatchway opening, carlines attached to the car side plates and arranged beneath the edges of the opening, and a hatchway lining



including a coaming disposed above and supported by the carlines and a skirt formed independently of the coaming and supported by the carlines.

2,652,788
DEVICE FOR FORMING AND SUPPLYING GUM STICKS TO A WRAPPING MACHINE
Lawrence W. Schoppee, Springfield, Mass., assignor to Package Machinery Company, East Longmeadow, Mass., a corporation of Massachusetts
Application December 21, 1949, Serial No. 134,215
8 Claims. (Cl. 107—4)

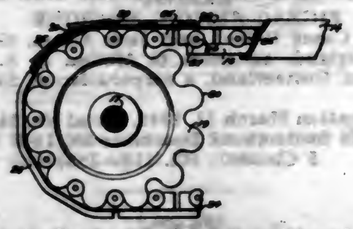


1. In a machine for forming gum sticks, from slabs of gum material, a hopper for supporting a supply of elongated slabs, a pair of opposed scoring rolls spaced from said hopper, a pair of opposed breaking rolls spaced from said scoring rolls, a bridge member positioned between said pairs of rolls, an oscillatable member having a plurality of fingers traveling beneath said hopper and between the rolls of each of said pairs of rolls, shoulders formed intermediate the ends of said fingers to engage the lowermost slab in the hopper and advance the so-engaged slab through the scoring rolls to a position on said bridge to be engaged by the ends of said fingers upon the next advance movement of said oscillating member and advanced by the ends of said fingers through the breaking rolls, means to constantly drive said scoring and breaking rolls, and means to intermittently drive said oscillating member.

2,652,789
CANDY MOLDING MACHINE
Tenal L. Peters, Anthony George, and Lee Stidham, Tyler, Tex.
Application September 11, 1950, Serial No. 184,292
1 Claim. (Cl. 107—8)

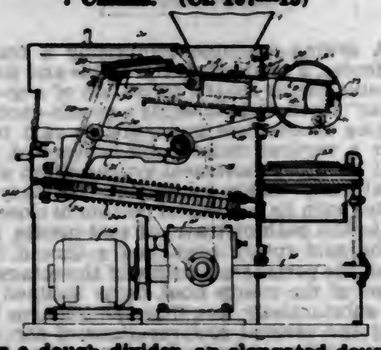
In a candy molding machine, parallel shafts rotatably supported in substantially the same horizontal plane, a pair of sprockets supported

on each said shaft, the corresponding sprockets on each end of said shafts being in alignment with each other, an endless belt adapted to be supported between and around said sprockets, at least one flexible cavity mold secured to the outer surface of said belt, rectangular cross members substantially as wide as the cavity of said mold transversely secured to the inner surface of said belt, at least one of said cross members having



one longitudinal edge thereof positioned beneath the bottom of the cavity of said mold when the latter is on the top of said endless belt, stub shafts projecting from the ends of said cross members and positioned to be received between the teeth of said sprockets, a horizontal surface slidably supporting said cross members along the upper length of said belt, and means driving said belt along its length.

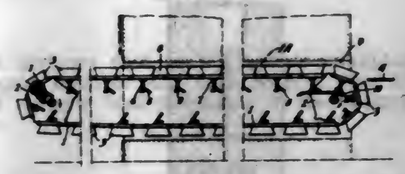
2,652,790
DOUGH DIVIDER
August E. Hein and William H. Klassing, Cincinnati, Ohio, assignors to The Century Machine Company, Cincinnati, Ohio, a corporation of Ohio
Application December 28, 1948, Serial No. 67,594
7 Claims. (Cl. 107—15)



1. In a dough divider, an elongated dough box having a dough receiving inlet and sides converging inwardly toward each other from the edges of the inlet, said inlet defining an opening extending across the maximum width of said box, said sides being curved in cross section and joining each other to form a continuous curved wall, and a dough plunger of substantially the same cross sectional shape as the box mounted therein for longitudinal reciprocation and adapted to open and close said inlet and to compress dough confined in the box.

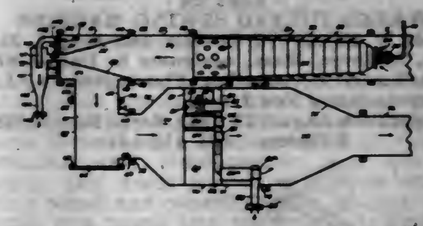
2,652,791
MOLDING, BAKING, DEPANNING, AND DELIVERING MEANS FOR LOAVES
Sol Listen, St. Kilda, Melbourne, Victoria, Australia
Application May 7, 1951, Serial No. 224,879
In Australia March 15, 1951
5 Claims. (Cl. 107—87)

1. In apparatus for baking, de-panning and delivering loaves; the combination of an endless conveyor travelling along substantially horizontal upper and lower runs, pans attached to said conveyor for movement with the latter, a loose bottom in each of said pans, a plunger attached to each loose bottom, a lifter arm pivotally connected to each plunger, means operative to hold said lifter arm in a position inclined in the direction of the conveyor movement relative to



said plunger during movement of the related pan along said upper run of the conveyor, and tripping means located adjacent the terminal portion of said upper run of said conveyor and operative to engage each lifter arm during travel of the related pan over said terminal portion of the upper run and to straighten said engaged lifter arm relative to the respective plunger for raising the loose bottom attached to the latter.

2,652,792
PRESSURIZED COMBUSTION AND ASH REMOVAL SYSTEM FOR COAL-FIRED GAS TURBINE POWER PLANTS
John I. Yellott, New York, N. Y., assignor to Bituminous Coal Research, Inc., Washington, D. C., a corporation of Delaware
Application November 23, 1951, Serial No. 257,701
10 Claims. (Cl. 110—28)



1. In a pressurized combustion system for the pressurized combustion of fluidized pulverized coal including a pressurized combustor and means to mix the products of combustion with a gaseous diluent and coolant to form an ash-bearing motive fluid, and ash separating means including a fly-ash separator receiving the ash-bearing motive fluid and delivering ash-free motive fluid, the improvements comprising a conical louver separator in axial alignment with the said combustor and receiving the said ash-bearing motive fluid, said louver having an apical outlet, whereby the coarse, motive fluid-borne solids are concentrated by the conical louver and discharge in a blowdown stream through said apical outlet, the cleaned gas from the louver being discharged to the fly ash separator; means for separating the ash from said blowdown stream to form a concentrated ash-carrying blowdown stream and a cleaned hot gas stream; means for returning the said cleaned hot gas stream to the motive fluid stream downstream of the louver separator, and separate means for removing the said concentrated ash blowdown stream from the said ash separating means.

2,652,793

REFRACTORY FURNACE ROOF BRICK RESISTANT TO SPALLING

Russell Pearce Heuer, Villa Nova, and Mervin Adrian Fay, Narberth, Pa., assignors to General Refractories Company, Philadelphia, Pa., a corporation of Pennsylvania

Application October 30, 1948, Serial No. 57,454
5 Claims. (Cl. 110—99)



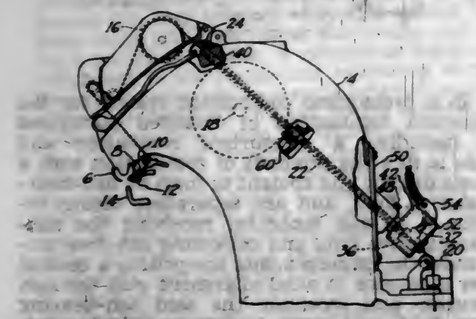
1. A unitary basic refractory brick of elongated shape having support means adjacent one end and an oxidizable metallic spacer plate in comoulded relation to the refractory extending longitudinally through the interior of the brick for part only of the length of the brick and extending across the brick and partially separating the brick into refractory blocks on either side, there being refractory brick material extending unitarily across a transverse edge of the spacer plate between the blocks adjacent the end having the support means.

2,652,794

WAXED THREAD SEWING MACHINE

Harold W. Boothroyd, Beverly, and Alvin J. Zink, Jr., Andover, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application August 22, 1950, Serial No. 180,766
5 Claims. (Cl. 112—41)



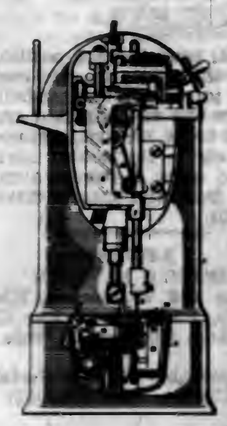
1. A waxed thread shoe machine having a main frame, a needle and other stitch forming devices in the frame, and a waxed thread supply supported by the frame, in combination with means for conducting the thread from the supply to the stitch forming devices while maintaining the thread in heated condition comprising a double walled tube mounted in the frame, an electrical heating element between the walls of the tube, an electrical outlet box at one end of the tube, and means in the frame for clamping the thread conducting tube and the outlet box, said electrical heating element being formed into coils disposed in closer relationship along the clamped area of the tube than along its unsupported length, and said frame having a central guide opening of larger dimensions than the outside of the tube to provide a heat insulating air gap between the tube and the frame along the central portion of the tube.

2,652,795

ZIGZAG SEWING MACHINE

Ramon Casas Robert and Jean Court, Geneva, Switzerland, assignors to Mefina S. A., Binningen, Switzerland, a corporation of Switzerland

Application March 31, 1949, Serial No. 84,611
In Switzerland December 20, 1948
5 Claims. (Cl. 112—158)



1. A sewing machine comprising a frame, a work feeder, a vertically reciprocable and laterally vibratable needle for the formation of a so-called "zig-zag" stitch and including a needle-carrier, an actuating mechanism imparting to said needle-carrier a vertical reciprocable movement and a lateral vibratory movement synchronized with its vertical reciprocable movement, a rotary hook mounted with its peripheral portion in close proximity to the path of travel of said needle, means rotating said rotary hook and a thread seizing beak on the peripheral portion of the rotary hook, the axis of the rotary hook being inclined at an angle substantially less than 90° relative to the axis of the vertical reciprocations of the needle carrier and the rotary hook being rotated in a direction that the beak will move upwardly in its thread seizing path of travel between the extreme positions of lateral vibratory movement of the needle.

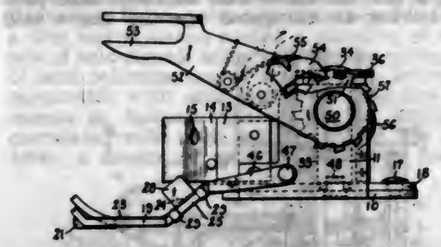
2,652,796

BLIND STITCH ATTACHMENT FOR SEWING MACHINES

Herbert H. Russell, New Haven, Conn., assignor to The Geist Manufacturing Company, New Haven, Conn., a corporation of Connecticut

Application January 12, 1951, Serial No. 205,800
7 Claims. (Cl. 112—160)

1. A blind stitch attachment for sewing machines comprising a frame, a lever pivoted to said frame on a vertical axis and having a cloth-engaging foot at its forward end, a vertically disposed shaft rotatably carried by the frame above said lever, a fork arm pivoted to the frame and connected to said shaft to rotate the latter in a step-by-step movement, abutment means on said lever, and means on the lower end of said shaft to engage said abutment means and shift said lever about its pivot, and a spring acting between a part of the frame and said lever to urge the latter in one direction about its pivot.

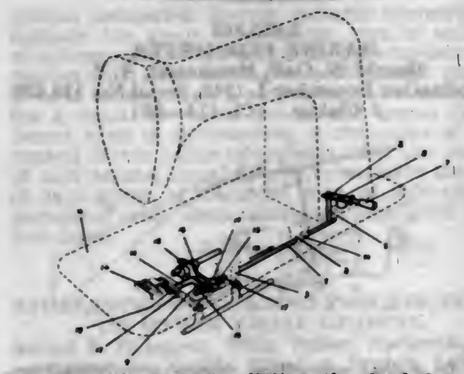


2,652,797

MECHANISM FOR DISCONNECTING AND REINSERTING THE LIFTING MOVEMENT OF THE CLOTH FEED CLAW IN SEWING MACHINES

Giuseppe Amman, Milan, Italy, assignor to Fratelli Borletti Societa per Azioni, Milan, Italy, a body corporate

Application March 28, 1951, Serial No. 217,932
In Italy April 7, 1950
2 Claims. (Cl. 112—210)



1. A mechanism for lifting the feed dog of a feeder in a sewing machine comprising a shaft, means mounting the shaft for axial slidable movement, a lever freely rockably mounted on the shaft, means for securing the lever on the shaft against axial movement relative to the shaft, said lever having a bifurcated end, an elongated cam rotatably mounted with its axis parallel to the shaft and embraced by the bifurcations of said lever for imparting rocking movement to said lever, a pin carried by said lever and spaced from said shaft and engageable with said feed dog to impart up and down movement to the dog, and means for axially shifting the shaft to displace the lever axially along its cam and to shift the pin into and out of driving engagement with the dog.

2,652,798

NEEDLE STRIPPER FOOT FOR SEWING MACHINES

Ralph E. Johnsen, Mountainside, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application August 31, 1951, Serial No. 244,547
7 Claims. (Cl. 112—236)

1. A sewing machine attachment comprising, a support member, a needle stripper foot carried by said support member and reciprocable rectilinearly in opposite directions to either of two extreme positions from a neutral position, said neutral position being the normal rest position of said stripper foot, and a spring engaging said support member and said stripper foot to hold said stripper foot yieldingly in its neutral position.

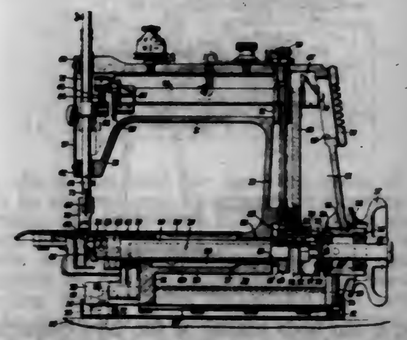


2,652,799

SEWING MACHINE LUBRICATION

Arthur N. Hale, Park Ridge, Ill., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Original application May 12, 1951, Serial No. 226,062. Divided and this application July 28, 1952, Serial No. 301,273
5 Claims. (Cl. 112—256)



1. A sewing machine having a frame formed with a splash lubrication compartment, a main-shaft extending through said compartment and having therewithin a crank-portion, an element embracing said crank-portion and actuated thereby, said crank-portion having an oil-collecting recess and communicating oil-ducts connecting said recess with the external surface of said crank-portion, and means for collecting oil from within said splash-lubrication compartment and conducting it into said recess, said means including a stationary ring member surrounding said main-shaft and having a projection extending into the recess in said crank-portion.

2,652,800

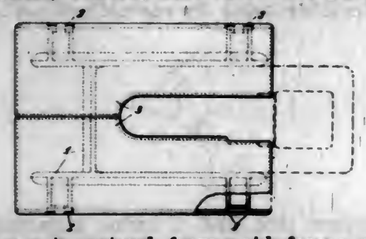
SEWING MACHINE TABLE

Karl Scheiwiller, St. Gallen, Switzerland, assignor to Bruisch & Co., Zurich, Switzerland

Application October 29, 1949, Serial No. 124,235
In Switzerland November 2, 1948
6 Claims. (Cl. 112—260)

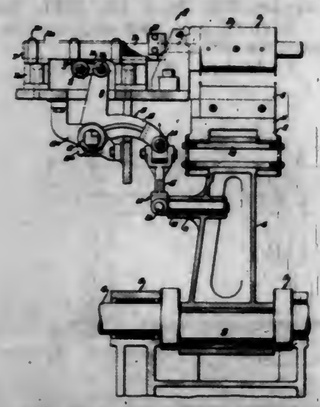
1. A table for a sewing machine equipped with a work support comprising a frame member extending laterally along and beyond said sewing machine and substantially below said work support, two half table plates of such length as to subtend the distance from said frame member to said work support, each table plate being swingably connected to said frame member and at either side of said work support, and means swingably connecting each of said half table

plates to said frame member independently of each other, whereby said half table plates may



be swung to extend from said frame member to the level of the upper surface of said work support.

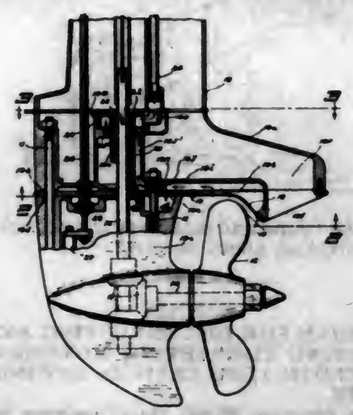
2,652,801
CAN BODY MAKER
Ed Laxo, Oakland, Calif.
Application January 19, 1951, Serial No. 206,865
3 Claims. (Cl. 113—12)



2. In a can body maker of the type comprising a fixed frame, a radially expandable forming horn for holding a can body, an expander pin slidable axially within the horn to expand and retract the horn and a bumper for bumping the interlocked hooks of a can body on the horn to form a side seam, the improvement which comprises a crankshaft, a connecting rod operatively connecting the crankshaft and the bumper for operating the latter to form side seams, an expander pin slide slidable in the frame and fixed to the expander pin, a bell crank lever having an adjustable fulcrum on the frame for adjustment of the stroke of said slide and expander pin; means positively connecting one arm of the bell crank lever with the slide and means positively connecting the other arm of the bell crank lever with the connecting rod, said bell crank lever and connecting means being such as to impart positive reciprocating motion to said slide and expander pin in timed relation to operation of the bumper and with a stroke which is a small fraction of a cam body length.

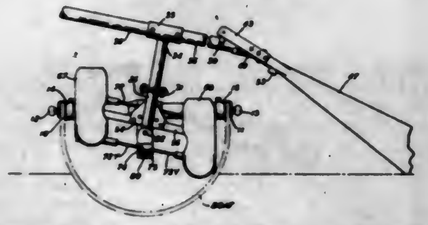
2,652,802
WATER INLET STRUCTURE FOR OUTBOARD MOTORS
Byron Carlson, Minneapolis, Minn., and John E. Betseld, Huntington Park, Calif., assignors to Scott-Atwater Manufacturing Co. Inc., Minneapolis, Minn., a corporation of Minnesota
Application April 20, 1951, Serial No. 222,068
9 Claims. (Cl. 115—17)

1. An outboard motor structure having in combination, a casing, a propeller shaft journaled in said casing, a propeller secured to said shaft and disposed at the rear of said casing, said casing having a portion above and adjacent said propeller having an elongated opening above said



propeller forming a cooling water inlet and a screen covering said opening whereby said propeller will assist in moving water through said screen and opening.

2,652,803
MARINE PEDOMETER
Harold W. Goff, Manhasset, N. Y.
Application December 1, 1949, Serial No. 130,490
3 Claims. (Cl. 115—25)

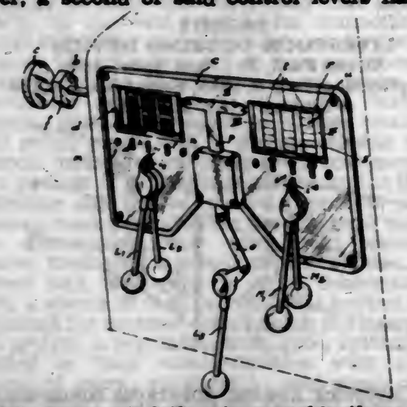


1. In a boat propelling device, a universal operating mechanism comprising a yoke member, a support attached to the boat, means carried by said support for pivotally mounting said yoke member for movement at right angles to each other, a sleeve carried by said yoke member, an extension member secured to said sleeve having a tubular element disposed in direction across the boat, a pair of oar members, and means carried by each of said oar members for securing the latter in rowing position to means carried by said tubular element, a pivot carried by said yoke member at each end thereof, a bar pivotally mounted on each of said pivots, a pedal mounted for angular movement on each end of said bar at right angles to the pivotal movement of said bar for permitting free oscillation of said yoke upon the operation of said pedals.

2,652,804
INDICATING DEVICE FOR MACHINE TOOLS
Marcel Pégard, Paris, France
Application December 6, 1945, Serial No. 633,184
In France January 31, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires January 31, 1962
11 Claims. (Cl. 116—135)

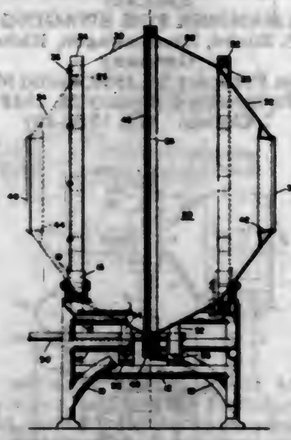
1. In a machine tool having a plurality of control levers for controlling conditions of the tool,

an indicator comprising an information carrier exhibiting a set of information correlated with all settings of the control levers, said set of information being arranged in columns and rows, a first signal means having a plurality of signals, one of said signals being positioned adjacent each of said columns, one of said control levers being cooperable with said signals of said first signal means to indicate the column of information correlated with each setting of said one control lever, a second of said control levers having a



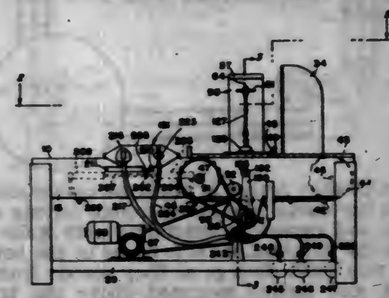
pointer connected thereto movable therewith to indicate the group of adjacent rows of said set of information within which the information correlated with each setting of said second control lever is located, and a second signal means having a signal for each row of said group of adjacent rows of information, a third one of said control levers being cooperable with the signals of said second signal means to indicate the row of said group of adjacent rows of information correlated with each setting of said third control lever.

2,652,805
APPARATUS FOR COATING TABLETS, PILLS, OR OTHER SMALL OBJECTS
Alfred J. D'Angelo, Penn Valley, Narberth, Pa., assignor to Smith, Kline & French Laboratories, Philadelphia, Pa., a corporation of Pennsylvania
Application June 26, 1951, Serial No. 233,567
3 Claims. (Cl. 118—19)



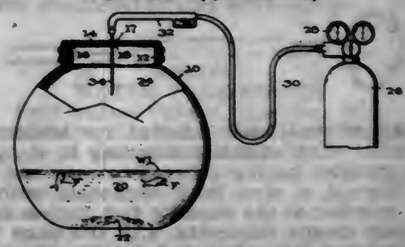
1. In a device of the character described, a rotatable drum having a horizontal axis and mounted on a support for rotation about said horizontal axis, said drum having a central cylindrical section and two sides, each formed in the shape of two truncated cones, each of the first of said truncated cones joining said cylindrical section at an interior angle of about 152°, each of the second of said truncated cones joining each of said first truncated cones at an interior angle of about 154°, and each of said second truncated cones being provided with an aperture.

2,652,806
MACHINE FOR APPLYING ADHESIVES IN THE BOTTOMS OF THE GROOVES OF FLOORING STRIPS
Arthur Klamut, Yonkers, N. Y., and George W. Kretschmar, Garfield, N. J., assignors to W. M. Ritter Lumber Company, a corporation of West Virginia
Application December 28, 1948, Serial No. 67,728
9 Claims. (Cl. 118—410)



1. In a machine for applying spots of adhesive in the bottoms of grooves in flooring strips, a table, means to feed said strips in a substantially straight path along the surface of said table, a tank positioned above said path and adapted to contain adhesive, nozzle means including fixed nozzles extending into said path to be traversed by grooves in said strips as the latter are fed along said path, pulsing means between the adhesive in said tank and passages in said nozzle means for momentarily supplying adhesive to said passages under pressure and for immediately reducing said pressure to subatmospheric, thereby causing a drop of adhesive from each nozzle to discharge and impinge upon the bottom of said groove and causing the adhesive remaining in the passages to be immediately withdrawn therefrom so as to prevent adhesive from getting on to other portions of the surfaces of said strips.

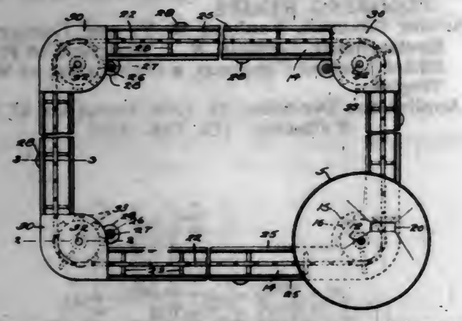
2,652,807
DEVICE FOR THE TRANSPORTATION AND STORAGE OF LIVE FISH
George N. Washburn, Steutland, Mo., assignor to Ozark Fisheries, Inc., Steutland, Mo.
Application May 2, 1951, Serial No. 224,193
4 Claims. (Cl. 119—3)



1. As an article of manufacture and sale, the combination comprising a sealed vessel filled only

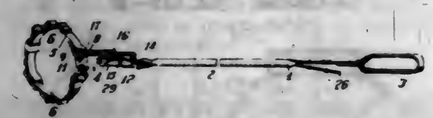
partially with fresh water and containing: live fish, a water filtering mixture including activated carbon, a metabolic agent selected from the group consisting of urethane and ether, and gaseous oxygen in the space unoccupied by the water.

2,652,808
AUTOMATIC CHAIN CONVEYER TYPE POULTRY FEEDER
Paul E. Wagner, Beaver Springs, Pa.
Application August 8, 1949, Serial No. 109,151
1 Claim. (Cl. 119—52)



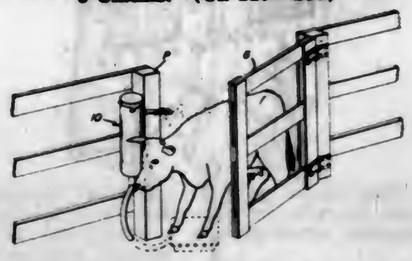
In a poultry feeder of the type comprising an endless horizontal elongated trough having a flat bottom and upwardly extending side walls carried by the longitudinal side edges of the bottom, which side walls diverge as they recede from the bottom, and means mounted above the trough for feeding material into said trough, means for distributing the material fed into the trough throughout the length thereof comprising longitudinally spaced guide sprockets mounted adjacent one side of the trough to rotate about vertical axes, said sprockets extending into the trough through one of the side walls above the bottom, an endless chain trained over the sprockets and longitudinally within said trough for movement in a rectilinear path within the trough and above the bottom thereof, longitudinally spaced transversely extending upstanding cross bars carried by the chain for movement thereby below the sprockets and in contact with the bottom for scraping the bottom, flanges on the upper edge of said trough partially extending inwardly and upwardly thereof for confining the material within said trough and means operatively connected to one of the sprockets for rotating it and driving the chain.

2,652,809
ANIMAL RELEASING LEASH
Harry G. Foster, Mullens, W. Va.
Application September 14, 1951, Serial No. 246,562
12 Claims. (Cl. 119—114)



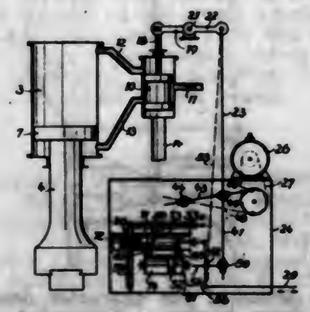
1. An animal leash adapted for attachment to a collar of an animal, comprising an elongated leash member having a handle at one end portion thereof, a snap hook connected with the leash member at the opposite end portion thereof, latch means connected with the snap hook for engaging the collar and holding the collar securely to the snap hook, said leash member having a tubular portion extending lengthwise thereof, and a flexible member connected with the latch means and extending through said tubular portion to a point adjacent to the handle for manual manipulation to release the latch means, a sleeve fixed to the tubular portion of the leash member, and a coiled spring bearing against the sleeve at one end and having its opposite end anchored to the flexible member normally tending to move said flexible member in one direction.

2,652,810
LIVESTOCK DUSTING DEVICE
Alfred Paul, Jr., Paul Spur, Ariz.
Application July 5, 1951, Serial No. 235,125
6 Claims. (Cl. 119—159)



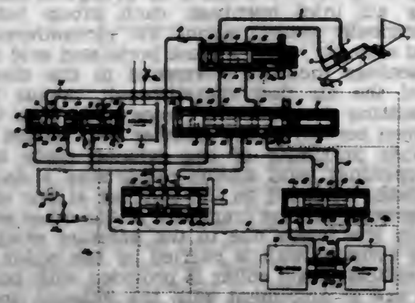
1. A livestock dusting apparatus comprising a dust container having a longitudinal outlet tube secured therein with an open upper end in communication with the interior of said container, at least one sprayer outlet secured to the exterior of said container and in communication with said outlet tube, a weight actuated bellows, an inlet connection for said container, a conduit interconnecting said bellows with said inlet connection whereby depression of said bellows by an animal forces air into said container agitating the dust therein and forcing dust into said outlet tube and out said sprayer outlet, and an elongated tube having a funnel-like end supported by said inlet connection and overlying the same whereby dust can circulate therethrough by injection of air from said inlet connection, said elongated tube being adjustable toward and away from said outlet tube to control the proportion of dust and air to be dispensed from the container.

2,652,811
POWER HAMMER FOR SWAGING STEEL
Hans P. Béché, Huckeswagen, Rhineland, Germany
Application February 27, 1950, Serial No. 146,616
In Sweden February 25, 1949
7 Claims. (Cl. 121—20)



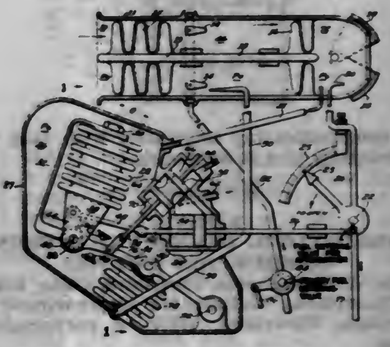
1. In a hydro-pneumatic, material-forming hammer system, the combination of a ram cylinder operatively connected in fluid communication with a first source of energy, a reciprocable ram for imparting hammer blows upon material to form the latter, a portion of said ram being slidably carried within said cylinder, a distributing slide valve cylinder connected between and in fluid communication with said ram and said source of fluid, a distributing slide valve slidably carried within said slide valve cylinder and shiftable to a plurality of positions for regulating the quantity of fluid flow from said first source of energy to the ram, means for controlling the movement of said valve, said means including linkage means connected at one end thereof to said slide valve, a constant speed prime mover operatively connected to a second source of energy, means connected in driven relation to said prime mover and in driving relation to said linkage means for effecting reciprocal movement of a portion of said linkage means and of the distributing slide valve, means connected to said linkage means for altering the length of stroke of the distributing slide valve, said last-named means including a pump driven by said prime mover and connected in fluid communication with a source of fluid, an external control means mounted for manual actuation by the operator of the system, a regulating slide valve cylinder connected in fluid communication with a third source of energy produced by said pump, a regulating slide valve slidably carried within said regulating slide valve cylinder and mechanically connected to said external control means, a control cylinder in fluid communication with said regulating slide valve, and a fluid driven control piston slidably carried within said control cylinder and mechanically connected to said linkage means and to said external control means for shifting the position of said portion of said linkage means to thereby alter the length of stroke of the distributing slide valve in response to an actuation of the external control means and the regulating slide valve mechanically connected therewith.

2,652,812
COMBINED MANUAL AND AUTOMATIC HYDRAULIC SERVOMOTOR APPARATUS
Edward J. Fenzl, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 13, 1952, Serial No. 287,656
12 Claims. (Cl. 121—38)



1. In a hydraulic apparatus for actuating a movable member, a hydraulic servomotor having a reversible piston adapted to be connected to move said member and having a pair of fluid transfer ports disposed on opposite sides of said piston, a pair of relay valves each having a pair of fluid transfer ports, means including a transfer valve for alternatively connecting either said pair of relay valve ports to said servomotor ports thereby selectively to connect one or the other of said relay valves to control said servomotor, and means differentially responsive to fluid pressure at two of said relay valve ports adapted for alternative connection to the same one of said servomotor ports for controlling said transfer valve.

2,652,813
PRESSURE RATIO SENSING DEVICE
John H. Stresen Reuter, Birmingham, and John T. Karpus, Jr., Detroit, Mich., assignors to Holley Carbureter Company, Detroit, Mich., a corporation of Michigan
Application October 24, 1951, Serial No. 252,848
4 Claims. (Cl. 121—41)

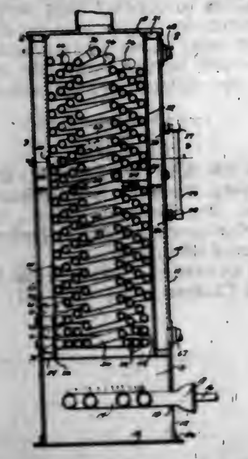


1. Differential pressure apparatus comprising in combination two pressure responsive elements, the first element being adapted to be connected to a separate and distinct first pressure source, a chamber enclosing and supporting said first element, said chamber being adapted to be connected to a second pressure source so that the first element exerts a pressure in accordance with the pressure difference between first and second pressure sources, a lever, a fulcrum therefor inside said chamber, said first element being operatively connected so as to move said lever as said difference of pressure changes, a second pressure responsive element sealed and so mounted as to oscillate inside said chamber so as to expand and contract as said second pressure varies, one end of said second element being pivotally connected to said lever, the other end being pivotally mounted inside said chamber so that it can act at various angles with reference to the line of action of the first element, servo-mechanism including a servo-valve connected to said lever, a servo-motor so connected to said second element as to vary its inclination with reference to the line of action of the first element a controlled element connected to said servo-motor.

2,652,814
WATER TUBE BOILER
Fred August Vedder, Okauchee, Wis.
Application July 5, 1951, Serial No. 235,165
2 Claims. (Cl. 122—169)

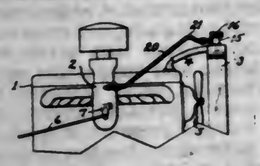
1. A boiler of the character described comprising an upright cylindrical tank having a flue in its upper end and a heater compartment in the lower end thereof, a jacket wall within the upper portion of said tank, spacer means between said tank and the jacket wall defining a water reservoir, and a plurality of helically coiled ver-

tically extending tubes nested within the jacket wall disposed concentrically along a vertical axis



each communicating separately with said reservoir centrally and at both ends.

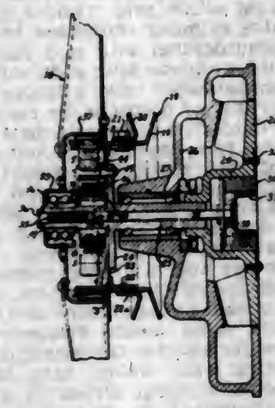
2,652,815
VAPOR FEEDING DEVICE FOR INTERNAL-COMBUSTION ENGINES
Charles A. Humphries, Cleveland, Ohio, assignor to Humphries Automotive Improvement Corperation, Cleveland, Ohio, a corporation of Ohio
Application August 25, 1949, Serial No. 112,195
3 Claims. (Cl. 123—85)



1. A device adapted for connection to the space above the water in the radiator of the motor for automobiles and the like and for leading vapor from said space to the intake passage of the carburetor, said device comprising a tubular connection leading to the carburetor from the upper portion radiator, and including a chamber member at the intake end thereof, the chamber member being provided with surfaces projecting downwardly into the top of the radiator and having openings therethrough and serving to deflect water away from the openings.

2,652,816
THERMOSTATICALLY CONTROLLED CLUTCH AND FAN DRIVE
Adiel Y. Dodge, Rockford, Ill.
Application March 26, 1949, Serial No. 83,662
21 Claims. (Cl. 123—41.12)

1. A speed responsive clutch comprising a driving element, a driven element, friction means for coupling the driving element to the driven element, said means including a drum on the driven element, friction shoes on the driving element, and pivoted weights mounted on the driving element and connected to the friction shoes to move them into contact with the drum; and means for controlling the operation of the clutch comprising a thermostatic element, and locking means connecting the thermostatic element to the weights, said locking means preventing operation of the weights until a predetermined temperature is reached in the thermostatic element.

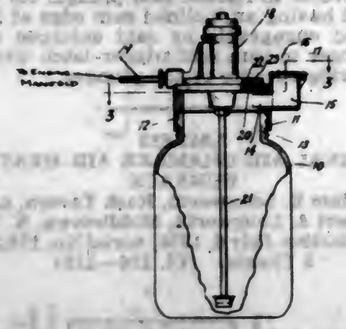


2,652,817
TWO-STROKE CYCLE INTERNAL-COMBUSTION ENGINE
Franz J. Neugebauer, Schenectady, N. Y.
Application May 20, 1952, Serial No. 288,993
2 Claims. (Cl. 123—65)
(Granted under Title 35, U. S. Code (1952), sec. 266)



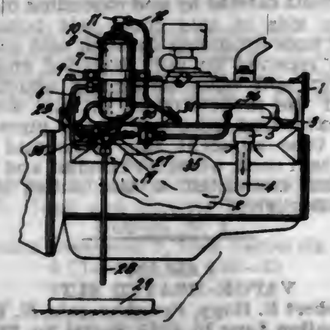
1. In a two cycle engine provided with a cylinder, piston and crankcase, means for maintaining the lost portion of the piston stroke as small as possible, said means comprising a series of exhaust ports spaced about the circumference of the center portion of said cylinder in juxtaposition above a series of groups of scavenging air inlet openings, each group being symmetrically spaced about the circumference of said cylinder, said exhaust ports and said inlet openings inclined downward in the direction of the air flow therethrough, means for transmitting the explosive forces away from the weakened portion of the cylinder wall caused by the close proximity of the exhaust ports and inlet openings, said means comprising a collar threadably mounted on the cylinder at one end, and connected to the crankcase at the other end, whereby the forces due to the pressure exerted on the cylinder wall is carried by the collar to the crankcase, said collar is provided with ports which are in alignment with the exhaust ports in said cylinder wall and which enter into an exhaust manifold connected to said collar, the said collar being spaced from said cylinder to form a passageway, a duct in the crankcase for the entrance of scavenging air into said passageway in the collar, the said passageway connected with the inlet opening for the passage of scavenging air into the cylinder.

2,652,818
APPARATUS FOR FEEDING AUXILIARY LIQUIDS TO INTERNAL-COMBUSTION ENGINES
Clayton B. Pierce, Port Chester, N. Y., assignor to Emerel Manufacturing Co., Inc., New York, N. Y., a corporation of Illinois
Application May 11, 1950, Serial No. 161,451
4 Claims. (Cl. 123—119)



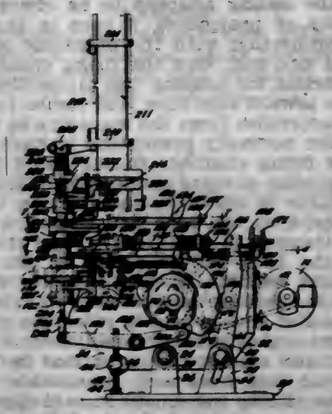
1. Filling means for an open-mouthed container having the mouth thereof covered by a liquid feeding apparatus, said filling means comprising a collar secured to the mouth of the container and adapted to support the liquid feeding apparatus, a laterally extending projection formed integrally with said collar, said projection being hollow so as to form a chamber and the wall of said collar adjacent said projection being formed with an opening communicating with said chamber, and a closure cap for said chamber.

2,652,819
AUTOMATIC DRAIN VALVE FOR CRANKCASE VENTILATORS
Dean S. Nusbaum, Kalamazoo, Mich.
Application April 19, 1951, Serial No. 221,815
12 Claims. (Cl. 123—119)



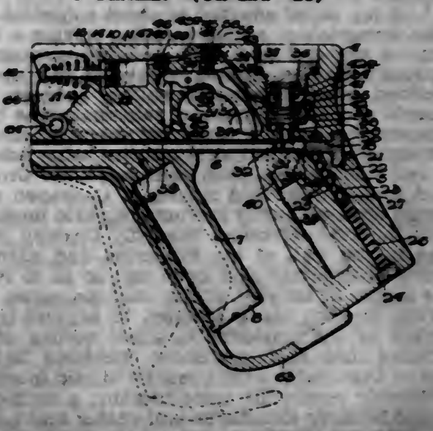
1. In combination with an internal combustion engine having an intake manifold and a crankcase, a vacuum ventilator for said crankcase including a filter and separator chamber with a sump in the bottom thereof, conduits connecting said chamber between said manifold and said crankcase and including a downwardly directed passage opening to said sump from said crankcase, a drain valve connected to said sump and including a movable valve element, and a vacuum motor operatively connected to the intake manifold of said engine to be operative when the engine is operating and connected to said valve element to close said valve, said valve element spring being biased to open position.

2,652,820
TARGET THROWING MACHINE
George H. Darrell, Dedham, Mass., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application January 10, 1950, Serial No. 137,741
10 Claims. (Cl. 124—8)



1. A target trap comprising a main frame having a target carrier rotatably held thereon, spring means for causing said carrier to perform a target throwing movement from a cocked position to a fired position; said spring means comprising a plurality of spring guide rods, a crosshead joining end portions of said guide rods, a connection from said crosshead to said carrier, a plate forming a spring power transmitting seat and joining said guide rods adjacent the ends thereof remote from said crosshead, a spring abutment movably held on said guide rods, and a plurality of power springs held on said guide rods respectively between said abutment and said plate.

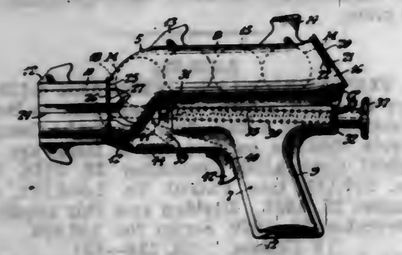
2,652,821
FLUID PRESSURE OPERATED GUN
Ellery R. Fitch, Elyria, Ohio, assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio, a corporation of Delaware
Original application December 23, 1944, Serial No. 570,189, now Patent No. 2,566,181, dated August 28, 1951. Divided and this application November 20, 1950, Serial No. 196,596
5 Claims. (Cl. 124—13)



1. In a fluid pressure operated gun having a casing provided with a barrel adapted to receive a projectile at one end thereof, a reservoir for

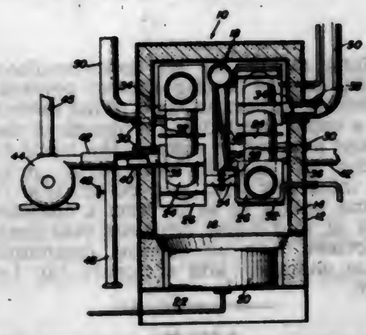
compressed fluid in the casing, a firing chamber adjacent said one end of said barrel and communicating therewith, means including an operator-controlled valve for supplying a charge of compressed fluid from the reservoir to the firing chamber to fire the projectile, and means for supplying projectiles to the barrel including a magazine in the casing adapted to be charged with a plurality of projectiles, a bore in the casing having connection with the magazine and connected at one end with the firing chamber and barrel, means for biasing the projectiles in the magazine toward said bore, and means for transferring projectiles from the magazine to the barrel and for normally preventing leakage of fluid from the firing chamber through said bore including a solid plunger slidably mounted in said bore slidable in one direction to open the connection between the bore and magazine to permit the transfer of a projectile from the magazine to the bore by the action of the biasing means and slidable in the opposite direction to close the connection between the bore and magazine and engage and to move the projectile to said one end of said barrel adjacent the firing chamber, and sealing means carried by the casing around said bore and engageable by said plunger on sliding movement in said opposite direction for preventing leakage of fluid pressure from the firing chamber through the bore.

2,652,822
TOY PISTOL
Glen I. Griffith, Ventura, Calif.; Dean A. Griffith, administrator of said Glen I. Griffith, deceased, assignor to Pong Repeater Pistol Company, Ventura County, Calif., a partnership consisting of Dean A. Griffith, Antonio A. Feraud, and Hester L. Ellis, all of Ventura County, Calif.
Application May 28, 1949, Serial No. 95,925
2 Claims. (Cl. 124—27)



1. A toy pistol adapted to shoot spherical missiles, comprising: a hollow casing having a hand grip at one end and walls defining a muzzle, a magazine having an open rearward end, and an inclined passage communicating between said muzzle and said magazine, said magazine being adapted to receive a supply of spherical missiles through its open end, said missiles being adapted to roll successively from said magazine through said passage into said muzzle; a U-shaped wire-spring element partly surrounding said magazine with its ends extending inwardly through openings in the wall of the magazine and normally partly obstructing said open end so as to retain the supply of missiles within said magazine, said spring element being adapted to expand transversely of the magazine to allow loading of the missiles into said magazine; yieldable holding means engageable with a missile in said muzzle to releasably retain the same therein; a spring-actuated plunger slidable in said casing and having an enlarged forward end, said plunger being adapted, when actuated, to move rapidly to a position wherein its forward end is disposed in said inclined passage so as to strike the rearward side of said missile disposed in said muzzle so as to propel the missile from said muzzle, said plunger being withdrawable to a cocked position, and a trigger-latch movable on said casing and provided with a pawl shoulder at its forward end adapted to engage said enlarged forward end of said plunger to releasably retain the same in cocked position, said trigger-latch being manually movable to release said plunger for actuation, and having an inclined cam edge at its forward end engageable by said enlarged end of said plunger to cam said trigger-latch under the same during cocking of the plunger.

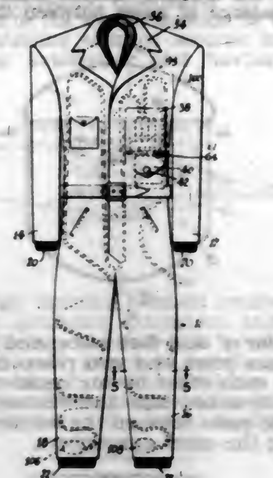
2,652,823
INTERNAL AIR CHAMBER AIR-HEATING FURNACE
William E. Longworth, Rock Tavern, and Robert A. Longworth, Middletown, N. Y.
Application July 6, 1950, Serial No. 172,302
3 Claims. (Cl. 126—110)

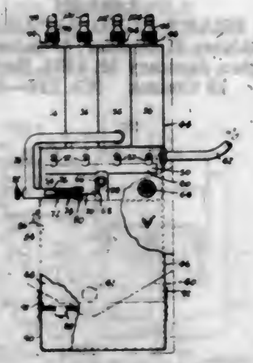


3. In a furnace including an insulated shell, an air heater comprising a circularly annular tube in said furnace having a principal plane thereof disposed vertically, said tube including circumferentially spaced baffles extending radially from the outer surface thereof, a pair of diametrically opposed bolts carried by and extending outwardly from one side of said tube, said bolts having threaded ends extending through said shell, closure nuts received on said threaded end, spacer sleeves on said bolts terminally abutting said tube and the inner surface of said shell, outwardly extending inlet and outlet pipes carried by said tube adjacent said bolts and passing through said shell, a hot air conduit and a forced air conduit connected to said outlet and inlet pipes, respectively.

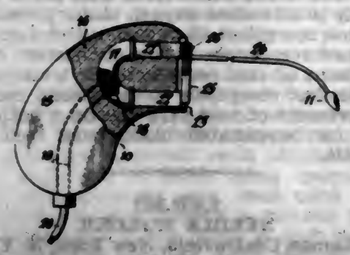
2,652,824
VAPOR-HEATED SUIT
Robert E. Hopp, Poughkeepsie, N. Y.
Application June 26, 1951, Serial No. 233,629
3 Claims. (Cl. 126—206)

1. Heated apparel of the character described, comprising a heat insulated article of wearing apparel, at least one tank installed in said article of wearing apparel and containing a liquid, heating means connected to said tank for heating said liquid above its boiling point, a tubular heat exchanger which is connected at one end to said tank, and an expansion chamber which is connected to the opposite end of said tubular heat exchanger, said expansion chamber being in communication with said tank only through said tubular heat exchanger, said heating means comprising a liquid fuel burner and a fuel tank, a valve for controlling the flow of fuel from the fuel tank to said burner, vapor pressure-operated means connected to said valve to close the valve in response to increased vapor pressure, said pressure-operated means being in communication with said tubular heat exchanger, and spring means constructed and arranged in said pressure-operated means to open said valve as the vapor pressure decreases below a predetermined value.



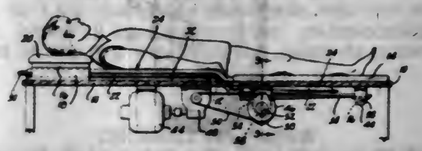


2,652,825
MEDICAL DIAGNOSTIC INSTRUMENT
Elmer M. Rauh and Charles William Bergerson, Buffalo, N. Y.
Application December 9, 1949, Serial No. 132,076
4 Claims. (Cl. 128—2)



1. A medical diagnostic instrument, comprising an electromagnetic transducer adapted for inclusion in the circuit of an amplifier and loud speaker unit including a hand-grasping body and a probe for detachable engagement therewith, said body and said probe having complemental magnet and armature elements thereon and one of the latter having a resilient spacer thereon for providing a cushion between such elements when in operative relation.

2,652,826
MECHANICAL MASSAGING DEVICE
Frederick A. Kallmeyer, South Orange, N. J.
Application March 26, 1951, Serial No. 217,573
12 Claims. (Cl. 128—33)



1. A pneumatic massaging device including in combination a plurality of flexible-walled, long and narrow, tube-like members adjacent and parallel to each other, each of said members being formed as a closed pneumatic chamber, stationary support means and a plurality of pressers corresponding to the number of said tube-like members, said pressers being movable with respect to said tube-like members, one end of each tube-like member being positioned between said stationary supporting means and said corresponding presser whereby the air within that chamber may be compressed as the end of the member is compressed by movement of the presser, and means for cyclically moving said pressers whereby the remainder of the tube-like members contacting with the body massage the body.

2,652,827
NAVEL UMBILICAL PRESSURE SHIELD
Howard E. Smith, Monroe, Mich.
Application February 14, 1951, Serial No. 210,933
3 Claims. (Cl. 128—132)

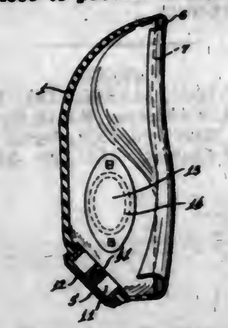


1. A navel umbilical pressure shield adapted for producing pressure on the navel section of a newly born infant after the detachment of the umbilical cord therefrom, comprising a curved shield plate of plastic material, designed approximately complementary to an infant's abdominal body curvature, and formed with a flat circular pressure boss projected centrally from the concave surface thereof, and slots for attachment of said shield in a chosen abdominal position.

2,652,828
RESPIRATOR
James N. Matheson, Reading, Pa., assignor to Willson Products, Inc., Reading, Pa., a corporation of Pennsylvania
Application March 26, 1951, Serial No. 217,540
7 Claims. (Cl. 128—146)

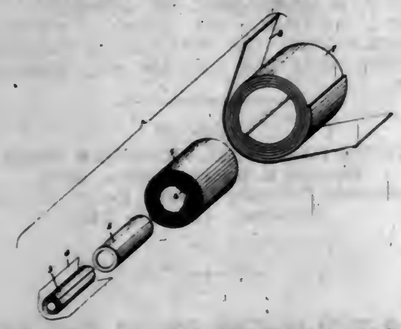
1. A respirator comprising a face piece of resilient material and of substantially cup-shape, said face piece having a substantially pear-shaped contour along its mouth portion and having an integral outwardly and inwardly turned marginal edge portion of substantially semi-circular cross-section extending from a parting line on said mouth portion, said marginal edge portion being substantially thinner throughout its entire cross-section than the adjoining por-

tion of the face piece and abruptly reducing in thickness at said parting line which is substantially along a flat plane at the mouth portion of the face piece to provide a highly cushioned,



gas-tight fit either when the face piece is worn high or low on the nose of the wearer and to avoid the necessity of a cross-piece for tying opposite sides of said face piece.

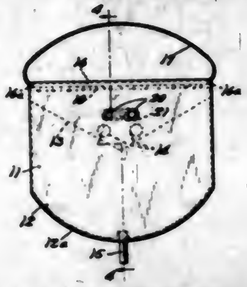
2,652,829
BURN AND WOUND DRESSING
Herman Freiberger, Glen Rock, N. J., assignor to Medical Fabrics Co., Inc., Paterson, N. J., a corporation of New Jersey
Application July 24, 1951, Serial No. 238,256
3 Claims. (Cl. 128—170)



1. A burn and wound dressing comprising in combination a substantially hard tubular core, a rolled medicated textile strip disposed within said core, an elastic textile strip material co-axially rolled about said core, a non-absorbent wadding strip material co-axially rolled about said elastic strip.

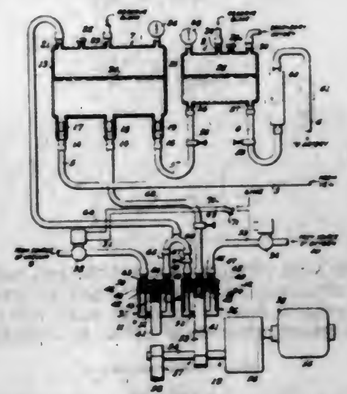
2,652,830
DEVICE FOR ADMINISTERING GASES
Ralph H. Kerr, Denver, and Willis M. Steckam, Aurora, Colo., assignors to United Air Lines, Inc., Chicago, Ill., a corporation of Delaware
Application March 14, 1950, Serial No. 149,532
18 Claims. (Cl. 128—205)

1. A device for administering gases comprising a face piece and a rebreather bag both made of thin, flexible material substantially impervious to the passage of gases at low pressures, said face piece being in the form of an envelope having one side thereof open and adapted to conform to the nose, face and chin of the wearer and to cover the mouth and nostrils, said rebreather bag being in the form of a larger envelope enclosing said face piece and joining therewith at the edges of the open side thereof, said rebreather bag being provided with means for admitting a gas thereto from a source of supply, a wall of said face piece having an opening of predetermined size therethrough communicating with the interior of said rebreather bag to permit passage of gases between the latter and



the interior of said face piece, and wall portions of said face piece and said rebreather bag lying adjacent each other having registering openings of predetermined size therethrough to permit passage of gases between the interior of said face piece and the outer atmosphere.

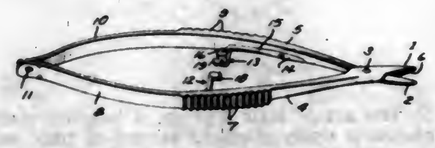
2,652,831
HEART-LUNG APPARATUS
Abraham E. Chesler, Woodmere, N. Y.
Application January 31, 1952, Serial No. 269,256
10 Claims. (Cl. 128—214)



1. Apparatus of the character described comprising a closed receptacle, a connection to the bottom of said receptacle to conduct venous blood thereto, means to apply vacuum to said receptacle above the blood therein to withdraw carbon dioxide and other gases from said blood and alternately to introduce oxygen under pressure into said blood to replace the gases withdrawn, a second closed receptacle, a flow connection between the bottoms of said receptacles to transfer blood from the first receptacle to the second receptacle under pressure of said oxygen, and a bottom discharge for oxygenated blood from said second receptacle.

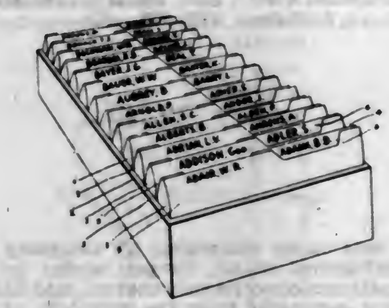
2,652,832
NEEDLE HOLDER
Ramon Castroviejo, New York, N. Y.
Application December 27, 1950, Serial No. 202,965
2 Claims. (Cl. 128—340)

1. A needle holder of the kind described comprising in combination a pair of opposed, pivoted, needle-gripping jaws, resilient actuating extensions extending from the jaws on the opposite side of the pivot, united at their ends and biased toward the open position of the jaws, a latch between the actuating extensions for latching the extensions in the closed position of the jaws including a latching element secured to one of said actuating extensions and having a slot



therein, another latching element secured to the other of said actuating extensions and having a lateral projection thereon with opposite cam faces, one of said elements being resiliently mounted and biased toward latching position, and said elements being positioned such that the jaws are closed before the latch becomes effective.

2,652,833
CARD INDEX FILE
Lewis Mayers, New York, N. Y.
Application April 12, 1949, Serial No. 87,102
2 Claims. (Cl. 129—16)



1. In a card index file composed of cards and a container therefor, the improvement comprising a plurality of pairs of cards arranged in said container with the upper portions of the cards projecting therefrom and with one card of a pair being separated from, and disposed behind, the other card of said pair, each card of a pair being removable from the container independently of the other card, each card being warped about an axis thereof so as to present a convex side and a concave side, the cards of each pair having their concave sides disposed towards each other so that the central portions of the cards are spaced from each other while the edges parallel to the card axes approach each other, the said edges of each pair of cards being spaced from those of each adjacent pair, each card having along the upper edge thereof a cut-out portion and an index portion, the cards in each said pair being so arranged that the index portion of the rearward card is exposed to view through the cut-out portion of the forward card, said cards being adapted to be compressed to a flat shape in said container but to assume their warped state when the compression is relieved.

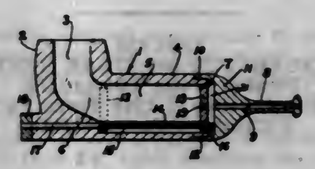
2,652,834
CIGARETTE PAPER
Milton O. Schur, Asheville, and Robert M. Levy, Brevard, N. C., assignors to Ecusta Paper Corporation, a corporation of Delaware
No Drawing. Application March 7, 1952, Serial No. 275,461
8 Claims. (Cl. 131—15)

1. A combustible cigarette paper containing cellulosic fibers, calcium carbonate filler, and impregnated throughout with approximately 0.1% to 1% diammonium phosphate, approximately 0.1% to 1.5% guanidine carbonate, and not more than about 0.1% tetrasodium pyrophosphate, based on the dry weight of the cigarette paper.

2,652,835
CIGARETTE PAPER
Milton O. Schur, Asheville, and Robert M. Levy, Brevard, N. C., assignors to Ecusta Paper Corporation, a corporation of Delaware
No Drawing. Application March 7, 1952, Serial No. 276,462
4 Claims. (Cl. 131—15)

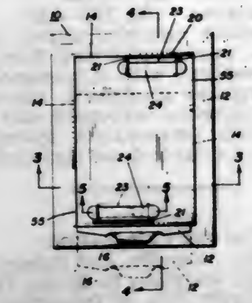
1. A combustible cigarette paper containing cellulosic fibers, calcium carbonate filler, and impregnated throughout with approximately 0.25% to 1.5% guanylurea phosphate, based on the dry weight of the cigarette paper.

2,652,836
TOBACCO PIPE
Philip N. Youtz, Yorktown Heights, N. Y.
Application October 11, 1949, Serial No. 120,800
2 Claims. (Cl. 131—181)



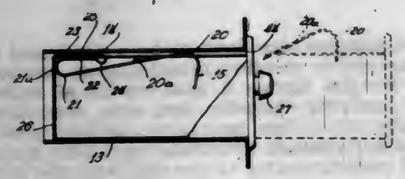
1. A tobacco pipe comprising a combined bowl and magazine member presenting at one end a bowl portion having a bowl cavity of substantially uniform diameter and also presenting a laterally extending magazine portion provided with a horizontally extending magazine chamber which communicates at one end with the bottom of the bowl cavity through a permanently unobstructed upwardly inclined opening having a cross-sectional area substantially equal to that of the bowl cavity, the other end of said magazine chamber being open, whereby said chamber can be filled either through the bowl cavity or through the open end, a stem element removably secured to the outer end of the magazine portion and closing the open end of the magazine chamber, said stem having a smoke duct which communicates with the magazine chamber at the outer end thereof, a tobacco feeding member within the magazine chamber, a feed screw having a non-threaded portion extending through said bowl portion below the bowl cavity and a threaded portion extending through the magazine chamber along the bottom thereof and having screw threaded engagement with the feeding member, the non-threaded portion of the feed screw being exposed at the front end of the bowl portion, and a finger piece on said exposed portion by which the feed screw can be manipulated.

2,652,837
SELF-DUMPING ASH TRAY
George J. Conrad, Baltimore, Md.
Application June 4, 1951, Serial No. 229,769
2 Claims. (Cl. 131—240)



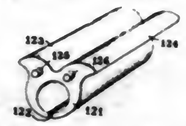
1. As an article of manufacture, an ash tray, a pair of spaced-apart side members carried by the ash tray, an axle having its ends housed in said members, said ends being rotatable in said members, a cigarette holder mounted on said axle and fast therewith, and a thermostatic element coiled about said axle, said element having one end secured to the ash tray and its opposite end secured to the holder at a point thereof offset from its longitudinal axis, whereby expansion of the element due to heat imparted thereto by a burning cigarette on the holder rotates the axle and tilts the holder to force the cigarette into the ash tray and thereafter, contraction of the element will restore the holder and axle to their normal position.

2,652,838
CIGARETTE OR CIGAR REST
Ethel F. Wolfe, Chicago, Ill.
Application October 11, 1949, Serial No. 120,710
6 Claims. (Cl. 131—241)



1. A cigar or cigarette rest device comprising, a pair of parallel relatively widely laterally spaced elongated spring arms, said arms having rear ends and forwardly and upwardly inclined portions and portions gradually bowed downwardly at their forward ends, said forwardly and upwardly inclined portions being relatively straight to the rear of said downwardly bowed portions for a distance greater than the said downwardly bowed portions, a dependent rest element at the lower ends of said downwardly bowed portions, said rest element extending between the arms, an upstanding formation on said element terminating at its upper end below the forward ends of said upwardly inclined portions, and means at the rear ends of the arms for securing the arms adjacent the rear end of a drawer structure and within the drawer, the arms being adapted to extend above the drawer at their forward ends when the drawer is open.

2,652,839
HAIR-WAVING APPARATUS
Jean Leclabart, Paris, France
Application May 14, 1949, Serial No. 93,312
In France August 5, 1948
4 Claims. (Cl. 132—36.2)



1. In the art of hair waving, a heating sleeve for mounting upon a wound strand of hair, said sleeve comprising an elongated tubular body made wholly of a plastic, flexible and elastic material provided with a longitudinal slot formed therein from one end to the other end thereof, the portion of said body located opposite said slot forming a hinge for the two lateral portions of said body located adjacent to sides of said slot, two ribs fast with said tubular body extending on opposite sides of said hinge and constituting finger supports for manipulating said sleeve, and at least one separate metallic heat accumulating body embedded in the material of said tubular body.

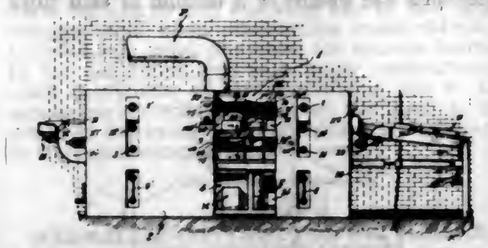
2,652,840
HAIR CURLER
Jacob G. Isaacs, Wilkes-Barre, and Michael F. Bonomo, Mountaintop, Pa.
Application April 7, 1952, Serial No. 280,894
2 Claims. (Cl. 132—42)



1. A hair curler comprising an elongated circular cylindrical shank, flanges carried by the shank adjacent opposite ends thereof, said flanges extending outwardly from the periphery of the shank and having slots opening through their respective peripheries and extending radially inwardly to the periphery of the shank, a clamp comprising a length of flexible elastic material having a diameter greater than the width of the slots and being adapted to be stretched and attenuated to a diameter less than the width of the slots for entrance into slots in the flanges at opposite sides of the shank and holding a lock of hair clamped to the shank, said clamp having a generally spherical enlargement at one end of a slightly greater diameter than the width of said slots and a handle at its opposite end for securing the opposite end of said clamp and a second generally spherical enlargement intermediate its ends, which second enlargement has substantially the same diameter as said first enlargement.

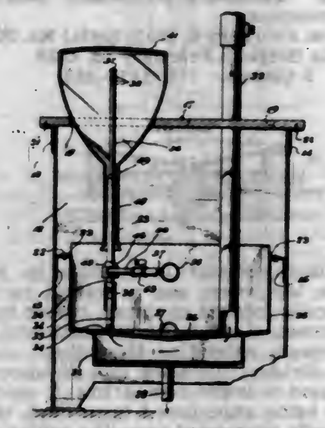
2,652,841
ARTICLE CLEANING MACHINE
Anton Kurt, Jersey City, N. J., assignor to Anlo Inc., Newark, N. J.
Application December 8, 1950, Serial No. 199,773
20 Claims. (Cl. 134—46)

1. A cleaning mechanism including an enclosing framework, a chamber at one end of the framework for carrying a cleaning liquid, a separate chamber at the other end of the framework for carrying a rinsing liquid, means for heating said liquids, a conveyor for carrying the material to be cleaned through the framework above said chambers and means for separately forcing said liquids from their respective chambers at



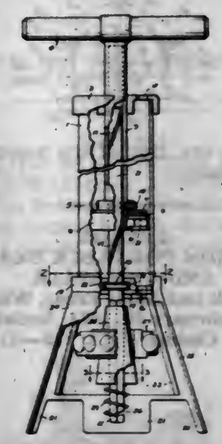
their respective ends of the framework through a plurality of continually oscillating nozzles with further means for shifting said nozzles while being oscillated through a multitude of continuously varying angles to produce widely shifting streams all over the material as it passes along on the conveyor.

2,652,842
ENVELOPE TREATING APPARATUS, PARTICULARLY GLASS ENVELOPES FOR CATHODE-RAY TUBES
Melberne L. Hayes, Oak Park, Ill., assignor to National Video Corporation, Chicago, Ill., a corporation of Illinois
Application April 7, 1950, Serial No. 154,655
3 Claims. (Cl. 134—99)



1. In an apparatus for rinsing and drying an envelope having an enlarged body and an open-ended neck extending therefrom means for supporting an envelope with the open end of the neck directed downwardly, a nozzle fixture adapted to be received within said envelope, said nozzle fixture comprising a tube adapted for connection to a drying fluid supply and having its upper extremity terminating within the body and having a discharge aperture adjacent said extremity for discharging a drying fluid into the body of said envelope for drying the interior surface of said body, an outer tube concentric with said first mentioned tube and spaced therefrom to provide a passageway therebetween, said outer tube being open at the top end thereof and terminating at its upper end just below the junction of the body and neck, coupling means for connecting said passageway to a supply of rinsing fluid, means carried on said first mentioned tube and arranged in close proximity to and above the open upper end of said outer tube for impingement by and deflection downwardly and outwardly of the fluid issuing from said open end for directing said fluid against the inner wall of the neck.

2,652,843
BEARING CLEANER
Carl D. Schuchman, Vancouver, and Richard S. France, Ridgefield, Wash.
Application November 16, 1949, Serial No. 127,586
13 Claims. (Cl. 134—116)

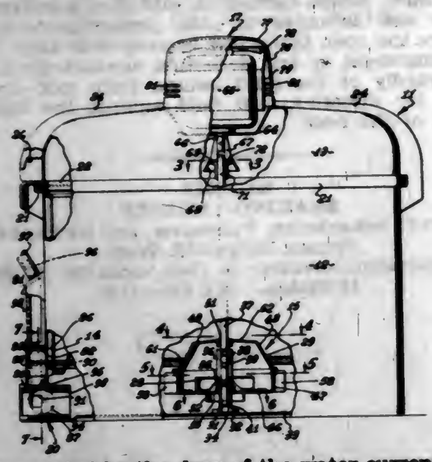


13. A bearing cleaner comprising, in combination, reciprocating fluid pump means open at one end for passage of cleaning fluid to and from said pump, a flared conical race on the pump means surrounding the said opening, a drive shaft mounted in fixed longitudinal relation with the conical race for axial rotation on the axis of the conical race and terminating at one end adjacent the race, bearing-engaging means mounted on the end of the drive shaft adjacent the race for rotation with the drive shaft, the bearing-engaging means extending into the race and being adapted to hold a bearing in contact with the race, and means interconnecting the pump means and drive shaft for rotating the drive shaft by actuation of the pump means.

2,652,844
DISHWASHER
Lester E. Van Hise, Los Angeles, Calif.
Application December 9, 1948, Serial No. 64,295
16 Claims. (Cl. 134—188)

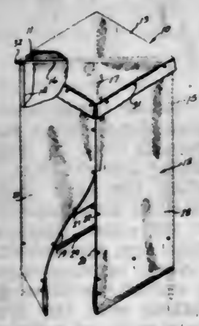
1. In an apparatus for washing dishes and the like, a container comprising a casing having an open top, a removable cover seated thereon in sealed relationship, a rotary water impeller unit in said casing mounted upon the bottom wall thereof, said impeller unit including a rotary impeller and a freely rotatable enclosing nozzle spaced from said rotary impeller and having an inlet below the normal water line and an outlet above said line, a power-transmitting shaft fixed to said impeller and extended toward said cover, a driving motor for said shaft carried by said cover, and a separable connection between the shaft of said motor and said power transmitting

shaft whereby upon the rotation of said motor shaft said impeller is rotated and said nozzle is



also rotated by the drag of the water current set up by said impeller.

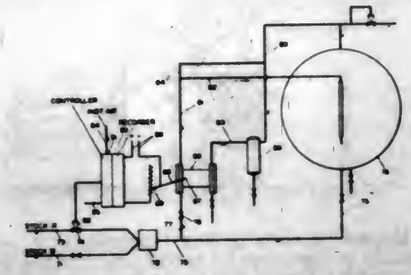
2,652,845
COMBINATION PORTABLE BEACH TENT AND UMBRELLA
Danielle O'Neill and Adolf Ernst, Wildwood, N. J.
Application February 20, 1951, Serial No. 211,822
12 Claims. (Cl. 135—1)



1. A combination portable beach tent and umbrella comprising an upstanding support, an apron dependingly carried by said support, said apron being fabricated of a flexible body and formed into an open-ended enclosure with the free side edges confronting each other, a group of rods arranged in end to end spaced relation with respect to each other along the upper end of said body and supported thereon, means carried contiguous the lower end of said body and cooperating therewith to form a pocket for the reception of ballast, and a cover bridging the upper open end of said enclosure.

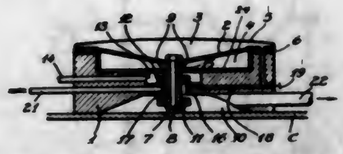
2,652,846
CONTROL APPARATUS
Robert U. Dunn, Phillips, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
Application July 22, 1946, Serial No. 685,390
4 Claims. (Cl. 137—91)

3. In a system for regulating the flow of a first liquid in a first pipe in relation to the flow of a second liquid in a second pipe in response to the weight of a unit of volume of a third liquid in a third pipe, wherein said third pipe is connected to said first and second pipes such that the flow of said liquid in said third pipe includes the sum of the flow of liquids in said first and second pipes, in combination; means to withdraw a quantity of said third liquid from said third pipe; means to determine the weight of a column of said third



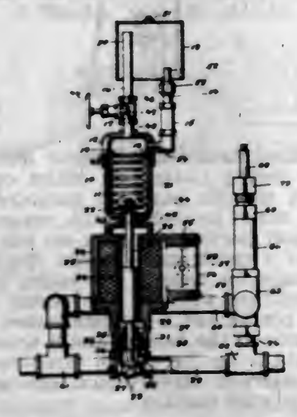
liquid comprising a vertically disposed pipe of predetermined height through which said withdrawn third liquid is passed, and expansible means directly in fluid communication with the bottom end of said vertically disposed pipe; and means responsive to said weight measuring expansible means to control the rate of flow of said first liquid in said first pipe.

2,652,847
PULSATORY DEVICE FOR MILKING MACHINES
Herman Paul Segebarth, Brussels, Belgium, assignor to "Societe Anonyme des Ecremeuses Perfecta," Thildonck-Wespelaer, Belgium, a Belgian company
Application February 8, 1951, Serial No. 209,958
In Belgium February 10, 1950
3 Claims. (Cl. 137—103)



1. A milker pulsator comprising in a body structure a top recess and a bottom recess, an inner centrally located chamber, covers for each of said recesses, a substantially horizontal bendable diaphragm extending throughout said top recess and dividing the same into an upper compartment and a lower compartment, said compartments being superposed upon each other, a tube vertically suspended from the center of said bendable diaphragm and thereby adapted to be vertically displaced, two vertically superposed bores between said tubes and said body structure adapted to connect said inner chamber to said upper recess and said lower recess, the inside of said tube being in permanent communication with said lower compartment, said tube opening freely at its lower end into said bottom recess, a passage permanently connecting said lower recess with a source of a vacuum, a passage to permanently connect said inner chamber with the outer atmosphere, a passage to permanently connect said lower bore with teat cups, a passage to connect said lower recess to the upper compartment, vertically superposed spaced resilient members fastened to said tube and vertically displaceable therewith and adapted to establish by their vertical displacement alternatively a connection between said bottom recess and both the passages leading to said teat cups and said upper compartment while the inner chamber communicates with said lower compartment, said resilient members being upwardly displaced to interrupt the connection between said lower recess, the passages leading to said teat cups and to said upper compartment while establishing communication between said inner chamber, the passage leading to the teat cups and said upper compartment upon movement of the diaphragm due to the atmospheric pressure acting on the same as opposed to the vacuum action upon the diaphragm in the upper compartment.

2,652,848
HYDRAULIC CONTROL FOR OIL BURNER FUEL SUPPLY VALVES
Robert Maphis Wick, Washington, D. C., and George Robert Kern, Arlington, Va.
Application March 16, 1949, Serial No. 81,755
2 Claims. (Cl. 137—110)



1. In a liquid fuel supply valve control, the combination which comprises a valve body having a horizontally disposed valve seat therein, a valve member positioned to coact with the valve seat for closing the valve, a bellows-type fluid unit having a confined internal chamber integrally connected to the said valve member and positioned to retard opening movement of said valve member, a bleeder connection in said bellows-type unit chamber for retarding the flow of fluid therefrom to retard the opening movement of the said valve member, a needle valve in said bleeder connection for regulating the flow of fluid therethrough, a fluid supply tank communicating with said bleeder connection with a check valve therein for return of fluid to the said bellows-type fluid chamber, and a by-pass connection with a relief valve therein around said fuel supply valve.

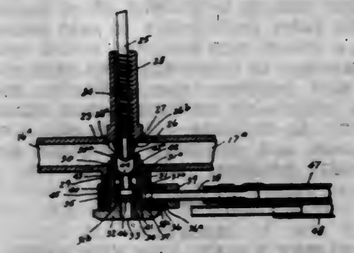
2,652,849
SIPHON RETAINER
William Ebbs and J. L. Hardon, Plainview, Tex.
Application January 25, 1949, Serial No. 72,607
3 Claims. (Cl. 137—147)

1. In a siphon retainer, the combination with an open-ended tube, of an annular sleeve embracing said tube and secured thereto, an open-topped cup arranged in spaced relation about said tube and connected to said sleeve, a cage interposed between the bottom of said cup and said sleeve and secured thereto, and a spherical body arranged in said cage and mounted for



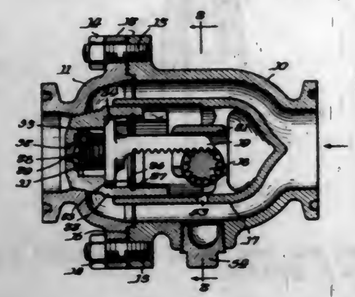
movement into and out of engagement with the open end of said tube.

2,652,850
BACKFLOW PREVENTING UNIT FOR DISHWASHING APPARATUS
Charles J. Manville, Pontiac, Mich.
Application August 2, 1949, Serial No. 108,071
1 Claim. (Cl. 137—218)



In a dish washing apparatus having a vertical chamber communicating with a source of water normally under pressure, an upper conduit leading from the upper portion of said chamber and a lower conduit leading from the lower portion thereof, the combination therewith of an automatic back flow preventing unit including a nipple closing the upper end of said chamber and provided with an upper valve seat, said nipple having a reduced portion extending downwardly into said chamber terminating in a lower valve seat, a third valve seat in said upper conduit in opposed relation to said upper valve seat, a manually-controlled valve interposed between said upper valve seat and said third valve seat movable between open and closed positions in respect to said last-mentioned valve seats respectively, and a cup-shaped valve in the lower portion of said chamber slidable in guiding relation with the reduced end of said nipple movable under pressure from said source free of said lower valve seat to permit flow to said lower conduit upon said manually controlled valve being moved free of said upper valve seat, said cup-shaped valve being slidably movable into seating engagement with said lower valve seat to shut off back flow from said lower conduit upon the manually operable valve being forced from said upper valve seat when a partial vacuum develops in said chamber, for preventing back flow from said lower conduit to said source.

2,652,851
PILOT VALVE AND INDICATOR CONSTRUCTION
Edward G. Schmidt, La Grange, and John E. Svabek, Jr., Chicago, Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application August 10, 1950, Serial No. 178,642
5 Claims. (Cl. 137—222)



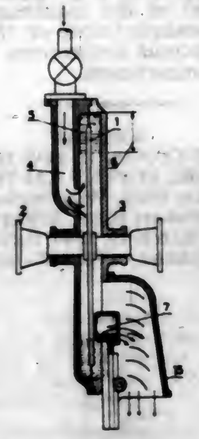
1. A pilot valve and indicator construction comprising in combination a body having fluid inlet and outlet openings therethrough, a cylinder spaced within said body, a plunger disposed within an end of said cylinder to selectively interrupt fluid flow through said valve outlet, a pilot valve mounted in said plunger, actuating means resiliently attached to said pilot valve and connected to said plunger with predetermined lost motion to thereby effect operation of said pilot valve preliminary to said plunger operation, a detent cam mounted within said valve body arranged to cooperate with said actuating means and having valve indicator markings thereon, adjustable resilient means attached to said body to indicate valve position on said detent cam and yieldingly maintain predetermined valve position.

2,652,852
FLOAT VALVE AND THE LIKE
Karl E. Ericsson and Ernst G. A. Geber, Sundbyberg, Sweden, assignors to Aktiebolaget Max Sievert, Sundbyberg, Sweden
Application March 22, 1951, Serial No. 216,890
In Sweden May 8, 1950
4 Claims. (Cl. 137—416)



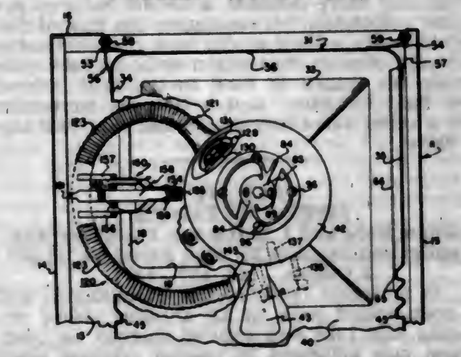
1. In a float controlled tank filling valve, in combination, an inner cylindrical chamber, a diaphragm closing one end of said chamber, said diaphragm being operated by the tank float, an inlet pipe extending through the opposite plane wall of said chamber and terminating adjacent said diaphragm, an annular chamber surrounding said cylindrical chamber, at least one passage in the wall between said chambers, at least one outlet opening in the outer wall of said annular chamber and spring means closing said passage, said spring means serving to create a relatively high pressure in said cylindrical chamber which counteracts the force exerted by the float until a predetermined level has been attained in the tank when the float force overpowers the chamber pressure and the diaphragm moves rapidly to the inlet closing position.

2,652,853
DEVICE FOR ADJUSTING THE HEIGHT OF A RING OF FLUID, PARTICULARLY WATER, IN HYDRODYNAMIC BRAKES AND SUCH LIKE
Ubaldo Ranzi, Legnano, Italy
Application July 31, 1947, Serial No. 765,143
In Italy January 27, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires January 27, 1964
1 Claim. (Cl. 137—577)



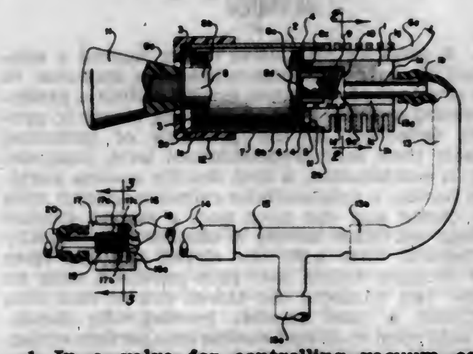
In a hydrodynamic brake water level control, a circular casing having an outlet opening in one side, a slidable partition mounted on said casing for radial movement with respect to said opening, said partition having an edge portion disposed at a right angle to the radius of the casing, means for causng the radial movement of the partition whereby the water overflows said edge portion at a predetermined distance from the axis of the casing, and a nozzle on the partition at the tip thereof for directing the flow of water laterally upward and obliquely after passing said edge portion.

2,652,854
DRAIN CONTROL MECHANISM FOR WASHING APPARATUS
Edgar S. Steddard, Berwyn, Ill., assignor to General Electric Company, a corperation of New York
Original application April 8, 1949, Serial No. 86,291. Divided and this application April 28, 1951, Serial No. 223,575
8 Claims. (Cl. 137—577)



1. Washing apparatus comprising a vat adapted to contain washing fluid and having a drain opening in the lower portion thereof, a drain pipe disposed below said drain opening, a drain conduit connecting said drain opening and said drain pipe, said drain conduit including a movable section capable of being moved between an upper position disposed above said drain opening and a lower position disposed below said drain opening, said washing fluid in said vat being retained therein when said movable section occupies its upper position and being drained therefrom through said drain opening and said drain conduit into said drain pipe when said movable section occupies its lower position, means for biasing said movable section into its lower position, and an electromagnetic actuator operable to lift said movable section against said biasing means into its upper position.

2,652,855
COMBINATION VACUUM AND SOLENOID OPERATED VALVE
Harry Wright, San Diego, Calif., assignor to Accurate Tool and Engineering Company, San Diego, Calif., a copartnership
Application May 16, 1949, Serial No. 93,477
3 Claims. (Cl. 137—614.19)



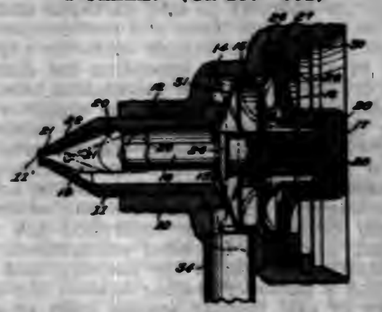
1. In a valve for controlling vacuum communicating with vacuumatic door locks, a casing, having a vacuum passage therein a source of vacuum communicating therewith, a valve seat at the terminus of said passage inwardly of said casing, a bore having one end communicating with said casing inwardly of said valve seat and the other end communicating with atmospheric air, a plunger reciprocally mounted relative to said valve seat, a solenoid winding connected with said casing when electrically energized tending to urge said plunger toward said seat, a spring forcing said plunger away from said seat when said solenoid winding is de-energized a check valve communicating with said vacuum passage and arranged to prevent air from passing into said passage toward the seat at the terminus thereof, and an outwardly extending manual control knob connected to said plunger.

2,652,856
FAUCET FOR DISPENSING CARBONATED BEVERAGES
Frank Welty and Raymond D. Welty, Youngstown, Ohio, assignors to Carbonic Dispenser, Inc., Canfield, Ohio, a corperation of Ohio
Application February 8, 1951, Serial No. 209,941
9 Claims. (Cl. 137—657)

1. In a liquid dispensing faucet an upstanding cylindrical casing having an enlarged bore extending vertically therethrough and an inlet aperture in its side wall; an outlet nozzle carried by said casing at its lower end; a discharge tube retained in said nozzle and extending upwardly into said casing; a cup member adapted to be slidably assembled within said casing and positioned over said discharge tube, the arrangement being such a relatively restricted fluid passage, communicating with said inlet aperture, is formed between said casing and said cup and a relatively unrestricted surge chamber, communicating with said restricted passage and said discharge tube, is formed between said cup and said tube; a cap member adapted to fit slidably into said casing and having an outwardly extending flange adapted to overlie the upper end portion of said casing, said cap member having a centrally positioned axial bore; a nut adapted to screw-threadedly engage the upper end of said casing and to engage the flange of said cap member to thereby retain said cap member in said casing; a shaft slidably retained in the said bore in said cap member and extending downwardly toward said tube; a resilient washer secured to the lower end of said shaft and adapted to sealingly engage the upper end of said discharge tube; a tapered plug carried by the lower end of said shaft and extending downwardly into said discharge tube; and means to slide said shaft upwardly and downwardly to thereby move said washer into and out of sealing engagement with said discharge tube.



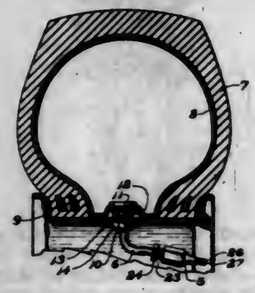
2,652,857
VALVE ASSEMBLY
Paul Engstrum, Washington, D. C., assignor to Paul Engstrum Associates, Inc., Washington, D. C., a corperation of Delaware
Application July 28, 1950, Serial No. 176,422
4 Claims. (Cl. 137—701)



1. In a valve assembly, a housing having a liquid receiving chamber therein, a cylindrical

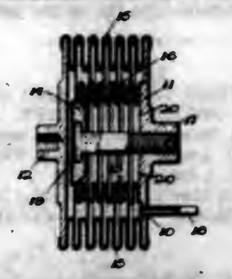
valve member supported within said housing in communication with said chamber and having a liquid flow port in its outer end, a valve stem disposed within said member for movement axially thereof, a valve seat in said member adjacent said port, a valve on said stem normally engaging said seat, a push member supported by said housing, a coil spring disposed between said push member and one end of said stem for normally maintaining the valve in engagement with the seat, and yieldable means disposed within said chamber and having an operable engagement with said stem, valve member and push member for withdrawing said valve from the seat in opposition to said coil spring upon movement of said push member in a direction toward said seat.

2,652,858
REPAIR UNIT FOR TIRE VALVE STEMS
Robert V. Snyder, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application May 21, 1949, Serial No. 94,678
2 Claims. (Cl. 137—737)



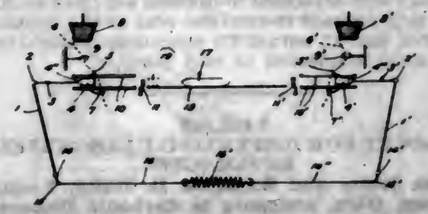
1. A tire valve stem attachment for mounting telescopically on the end of a valve stem, while the latter is on a mounted tire, for extension or repair of the valve stem, said attachment comprising a hollow housing having therein a cylindrical bore of a diameter to receive telescopically an end portion of a valve stem in slidable close fitting relation to the housing, a counterbore forming a mouth at one end of the housing for surrounding said end portion of the valve stem, said housing having a threaded portion at said one end thereof, an internal annular abutment at the junction of said bore and said counterbore, and an apertured partition across the end of said cylindrical bore remote from said mouth for abutting the end of the valve stem, and said housing including a tubular nipple for receiving and engaging an inflating valve core, said nipple projecting outwardly away from said partition in communication with said cylindrical bore through the aperture in said partition and said nipple at least at its outer end portion having a substantially uniform outside diameter approximately equal to but not exceeding the diameter of said cylindrical bore for facilitating telescopically and separably engaging the nipple with a closure cap, a tubular sealing body formed in its entirety of resilient rubber-like material and disposed in said counterbore for encircling the valve stem and having an end face seating against said abutment, a threaded hollow plug extending into said counterbore for encircling the valve stem and having a threaded engagement with said threaded portion of the housing, said plug presenting a shoulder seating against the other end face of said tubular sealing body so as to distort and press said body in air-tight relation against said abutment and said shoulder and the internal wall of said housing along said counterbore and also in air-tight elastically gripping relation against the valve stem, while maintaining the normal shape of the valve stem, when said plug is tightened with said attachment slidably mounted on the valve stem in telescopic relation thereto.

2,652,859
HIGH ALTITUDE PRESSURE RESPONSIVE CAPSULE
Donald Francis Murphy, Baltimore, Md., assignor to Bendix Aviation Corporation, Baltimore, Md., a corporation of Delaware
Application May 18, 1948, Serial No. 27,755
3 Claims. (Cl. 137—786)



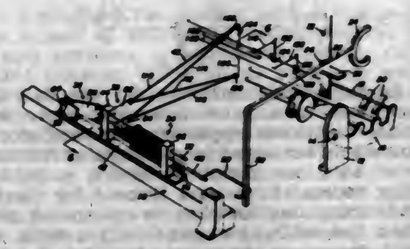
1. A pressure responsive device having a substantially large deflection-pressure modulus in the presence of pressures not exceeding a predetermined pressure level and having means to prevent deflection in the presence of pressures greater than said predetermined level, comprising, in combination, a first flexible sealing partition having a substantially cylindrical form with one closed and one open end, a second flexible sealing partition having a smaller substantially cylindrical form with one closed and one open end situated within said first partition with its closed end adjacent the closed end of said first partition, a base member hermetically engaging said open ends and having an aperture within the region bounded by said second partition, and a member passing through said aperture adapted to maintain the closed end of said second partition at a desired distance from said base member, the volume between said partitions being evacuated to a residual pressure of very nearly zero absolute pressure.

2,652,860
LOOM
Angelo Barnaghi, Milan, Italy
Application September 3, 1949, Serial No. 114,910
In Italy March 29, 1949
3 Claims. (Cl. 139—126)



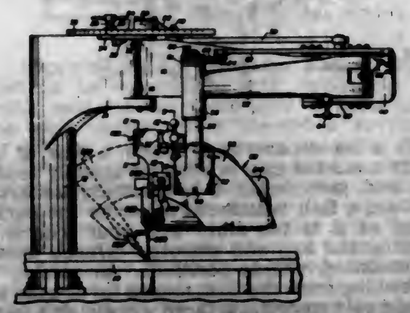
1. A gripper for the weft thread of a loom, the gripper comprising a flat sheath having a tongue, the ends of the tongue projecting from the ends of the sheath and shaped to form pincers therewith, the tongue being pivoted at the center of the sheath so that the pincers at one end of the gripper are closed while the pincers at the opposite end are opened, means to present a weft thread to the corresponding pincers of the gripper at each side of the loom, a receiving guide box for the gripper at each side of the loom, a picker for each guide box coacting with the gripper and closing the pincers on the inserted end thereof about the weft thread, means to reciprocate the pickers in the guide boxes synchronized with the movements of the gripper, the means comprising at least an arm for each picker, one end of the arm being attached to the picker, a downwardly directed rod pivotally disposed on the opposite end of each arm, the arms and rods being under tension away from the loom, and means for maintaining each picker momentarily in an advanced position in the box.

2,652,861
MECHANICALLY ACTUATED STOP MOTION FOR LOOMS
J C Case, Lynn, N. C.
Application January 29, 1951, Serial No. 208,345
5 Claims. (Cl. 139—353)



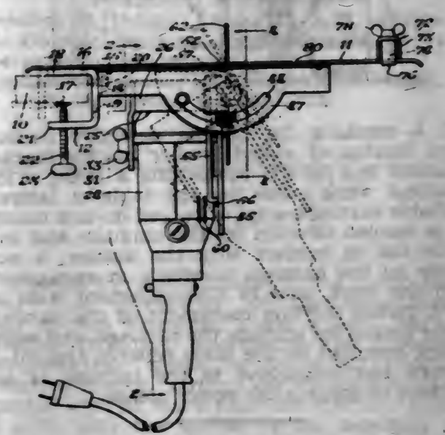
1. A stop motion for looms of the type having a supporting frame, a power control handle and a warp pressure bar, comprising an actuator operatively connected to said handle, resilient means urging said actuator for moving said lever into power cut-off position, a trigger mechanism preventing movement of said actuator, connecting means operatively connecting said trigger mechanism to said warp pressure bar for release of said trigger mechanism upon predetermined movement of said warp pressure bar.

2,652,862
ADJUSTABLE-SAW CARRIAGE FOR FOLDING ARM RADIAL SAWS
Horace C. Henry, Sherman, Tex.
Application April 29, 1948, Serial No. 23,945
14 Claims. (Cl. 142—6)



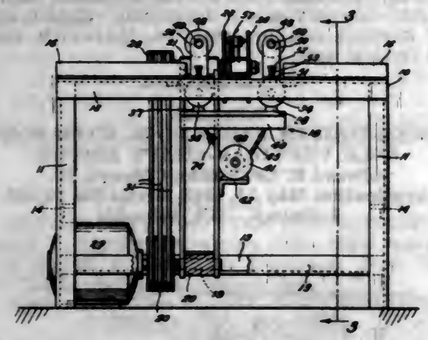
1. A saw carriage comprising a base plate having a bearing surface mounted thereon, a slide oscillatably mounted on said bearing surface, means on said base plate for moving said slide, retaining means on said base plate for guiding and retaining said slide on said bearing surface, a support plate secured to said slide, a bracket secured to said support plate, a head assembly having a saw journaled thereon, said head assembly being mounted on said bracket, adjusting means for slidably moving said head assembly on said bracket, a horizontal support rod mounted for rotation about a vertical axis, means mounting said saw carriage in depending relation upon said support rod for rotation therewith about said vertical axis.

2,652,863
POWER-DRIVEN TABLE TOOL WITH PORTABLE VERTICAL-SHAFT MOTOR
Edward E. Grabinski, Chicago, Ill.
Application May 11, 1948, Serial No. 26,360
3 Claims. (Cl. 142—36)



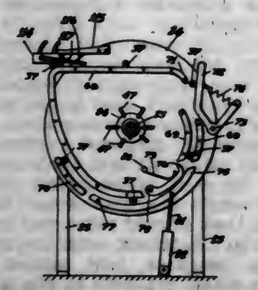
1. A power driven tool comprising a horizontally disposed table part, said table part having an aperture therethrough, an elongated motor generally vertically disposed beneath said table part, said motor having a driven shaft extending outwardly from the upper end thereof at a right angle thereto, a bracket fastened to said motor and having oppositely and laterally outwardly extending arms, spaced apart aligned vertically disposed angle brackets fixedly fastened to the underside of said table part on opposite sides of said table part aperture, said angle brackets having horizontally aligned arcuate slots, a relatively wide plate normally disposed vertically beneath said table part adjacent said table part aperture and having its ends terminating one adjacent each of said angle brackets, small brackets attached to the ends of said plate and having apertures therein in alignment with the arcuate slots in the angle brackets, bolt means adjustably fastening the small brackets to the angle brackets by passing through the apertures therein, one of said motor bracket arms hinged to one end of said plate, said plate on the other end thereof having a slot therein on an arc about the bracket arm hinge as a center, means for adjustably positioning the other of said motor bracket arms in the arcuate slot in said plate, said plate having an aperture therein for the passage of said motor driven shaft, and a work tool mounted on said motor driven shaft adjacent the side of the plate opposite the motor and its bracket, said work tool adapted to extend upwardly through the aperture in the table part whereby hinging of the plate will angularly adjust the work tool with respect to the table part and hinging of the bracket will determine the extension of the work tool above the table part.

2,652,864
MACHINE FOR CUTTING DEFECTIVE SECTIONS FROM LUMBER
Philip de Anguera, Cincinnati, Ohio, assignor to Graham Tie Dowel Service Company, Columbus, Ohio, a corporation of Ohio
Application June 14, 1948, Serial No. 32,934
8 Claims. (Cl. 143—46)



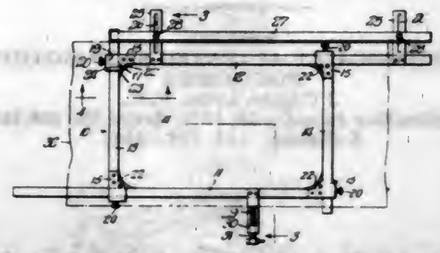
7. A machine for cutting defective portions from lengths of culled lumber having markers adjacent the defects comprising a table, a longitudinal work guide for the table, a laterally shiftable carriage, a set of cut-off devices mounted in spaced relation on the carriage and normally out of contact with the lumber, a work driver on the carriage normally in engagement with the work, and in disengagement with the work during shifting movement of the carriage, power means for shifting the carriage, and switch means mounted on the table between the cut-off devices and responsive to the passage of said markers to actuate the power means.

2,652,865
MACHINE FOR TURNING WOOD HEEL BLANKS
Wilfred J. Grenier, North Rutland, Mass.
Application February 3, 1949, Serial No. 74,438
4 Claims. (Cl. 144—143)



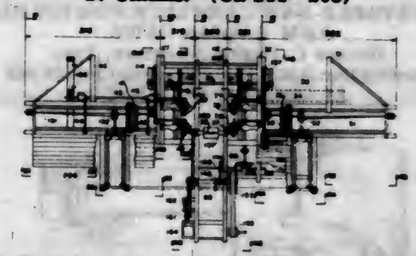
1. A wood shaping machine comprising, a pair of cutters each rotatably mounted about a respective one of a pair of laterally spaced axes, a plurality of work-holding clamps, a clamp-carrying frame rotatably mounted about a first axis disposed substantially in parallelism with the axes of said cutters, with each clamp rockably mounted about a pivotal axis movable with said frame, and laterally spaced from and disposed in parallelism with said first axis, means for opening and closing said clamps in a predetermined sequence, means for rotating said frame to carry each of said clamps about the frame axis and past each of said cutters, and means effective during continuous travel of the frame from one cutter to the other to oscillate each of said clamps about its pivotal axis thereby to control the cutting action of the cutters upon the work carried by the clamps and to cause each clamp to have a first side thereof presented to one of said cutters and a second side thereof presented to the other of said cutters so as to cut successively the two opposite sides of each work piece.

2,652,866
TEMPLATE
Herbert D. Drain, Chicago, Ill., assignor to Walter E. Selck and Co., Chicago, Ill., a corporation of Illinois
Application April 24, 1951, Serial No. 222,710
6 Claims. (Cl. 144—144.5)



3. An adjustable template for use in cutting an aperture in a panel-like work piece which template comprises oppositely disposed elongate bar members arranged in rectangular formation, each of said bar members having a guideway forming recess at one end thereof for receiving the adjoining bar member in connected sliding relation therewith at substantially a right angle thereto, means on the inner edge of each of said bar members adjacent said guideway forming recess for securing a corner forming insert, and clamp means on oppositely disposed bar members mounted for adjustment relative thereto for securing said template to the work piece.

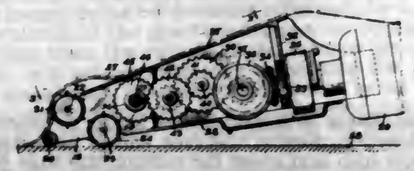
2,652,867
PORTABLE LOG DEBARKER FOR SAWMILLS
John R. Boswell, Mobile, Ala., assignor to The Bark-Off Corporation, Mobile, Ala., a corporation of Alabama
Application October 10, 1949, Serial No. 120,511
17 Claims. (Cl. 144—208)



8. In a log debarking machine, a pair of universally mounted spur wheels for spirally feeding a log and performing a preliminary debarking operation, a flail positioned to strike the bark of the log as it is fed from said spur wheels for debarking the log, and smooth surfaced universally mounted wheels positioned to receive the debarked log from the flail, means for driving said spur and said smooth surfaced wheels, and means for adjusting the angle of rake of said spur and smooth surfaced wheels.

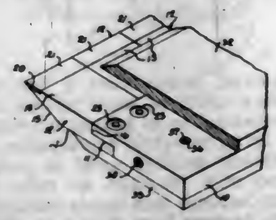
13. In a log debarking machine, a support rotatable about a fixed axis, means for axially moving a log parallel to the axis of the support and in adjacency to the support and for simultaneously rotating the log and support, flexible flailing members being carried by the rotating support and having sufficient length to wrap around a substantial circumferential area of a log so as to pound and pull the bark from the log.

2,652,868
BARK-REMOVING TOOL HAVING OPPOSITELY ROTATING TOOTHED ROLLERS
Reginald H. Grant, Somes Bar, Calif.
Application October 10, 1952, Serial No. 314,094
3 Claims. (Cl. 144—208)



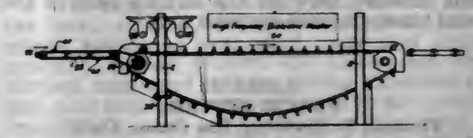
1. In a machine for peeling bark, a frame including a pair of side walls having parallel tapered end portions, a transverse smooth roller journaled between the ends of said side walls, a first toothed roller journaled transversely in said side walls above and rearwardly of said smooth roller and projecting outwardly from the top and front edges of said side walls, a second toothed roller journaled between said side walls rearwardly and below said first toothed roller and projecting downwardly with respect to the bottom edges of said side walls, driving means mounted on said frame, and means drivingly coupling said toothed rollers to said driving means.

2,652,869
MULTISECTION VENEER KNIFE
Clarence Goodman, High Point, and Claud T. Miller, Hickory, N. C.; said Miller assignor to said Goodman
Application June 11, 1951, Serial No. 231,032
1 Claim. (Cl. 144—241)



An improved multi-section veneer knife adapted to be associated with apparatus for clamping said veneer knife and automatically moving said veneer knife toward a revolving veneer log for cutting sheets of material from said veneer log, said knife comprising a rectangular base section of substantially the length of said veneer log, said base section having a rectangular groove extending along one edge thereof, a plurality of knife sections, each of said knife sections having a rectangular groove extending along one edge thereof, said grooves in the knife sections and the groove in the base section being of mating configuration to permit said knife sections to fit in close engagement with said base section, screw means for securing each of said knife sections in close engagement with said base section and in alinement with each other, each of said knife sections having a beveled edge, each of said knife sections having a hardened tip forming a cutting edge, the cutting edge of each of said knife sections being in straight alinement with the cutting edge of the other knife sections, whereby said knife will cut a smooth sheet of material from said veneer log, clamping plates covering the upper and lower surfaces of said base section and also covering a substantial portion of the upper and lower surfaces of the knife sections and a plurality of bolts passing through the base section and the clamping plates for securing the clamping plates to the upper and lower surfaces of the base section.

2,652,870
CONTINUOUS PLANAR TYPE PANEL FORMING MACHINE
Cornelius D. Dosker, Louisville, Ky., assignor to Gamble Brothers, Inc., Louisville, Ky., a corporation of Kentucky
Application January 15, 1948, Serial No. 2,385
20 Claims. (Cl. 144—281)

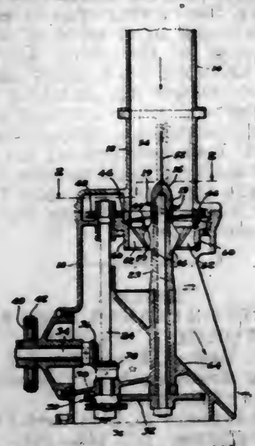


1. A panel forming machine of the continuous planar type presenting an upwardly-facing planar surface extending along a path having flattening, clamping, glue-setting and releasing areas comprising: means for moving an assembly of abutting boards, having their abutting surface precoated with an unset glue-like medium, along said path with the bottom of the assembly in engagement with said surface; means for flattening said assembly upon said surface in the flattening area; side clamping means for successively engaging successive oppositely-disposed side edge portions of the flattened assembly in the clamping area to effect a progressive clamping of the panel along its length with the clamping pressure exerted in a direction transverse to the path of assembly movement, said means operating to maintain said assembly in a clamped condition as it moves through the setting area; and means for releasing the assembly at the releasing area.

2,652,871
APPARATUS FOR DICING DECORED CYLINDERS OF PINEAPPLE
Richard M. Botley and Gustav Guigas, Honolulu, Territory of Hawaii, assignors to Hawaiian Pineapple Company, Limited, Honolulu, Territory of Hawaii, a corporation of Hawaii
Application August 29, 1950, Serial No. 181,972
10 Claims. (Cl. 146—6)

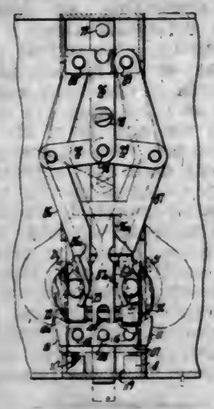
1. Apparatus for cutting a hollow fruit cylinder comprising a rotatable shaft adapted to enter the hollow center of said cylinder, a helical cutting blade secured to said shaft extending radially outwardly therefrom, a hollow casing adapted to receive said cylinder mounted in axial alignment with said shaft and rotatable about said axis, a second helical cutting blade secured to said casing extending radially inwardly therefrom, said blades being adapted to cut said cylinder transversely and to advance said cylinder through said apparatus, means for rotating said shaft and said casing, and means for retarding rotation of said cylinder as it is advanced, the maximum radial distance of the

cutting edge of the first blade from said common axis being at least as great as the minimum



radial distance between the cutting edge of the second blade and said common axis.

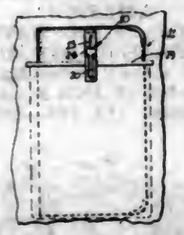
2,652,872
PEACH PITTER
Thomas B. Keesling, Los Gatos, Calif.
Application June 25, 1949, Serial No. 101,297
28 Claims. (Cl. 146—28)



1. A peach pitter comprising a support, a shaft mounted for universal floating movement, a pitting head carried by said shaft comprising opposed pit gripping means movable relative to each other and to said shaft to grasp a pit half therebetween, an abutment adjacent and between said pit gripping means for engaging the flat surface of a half pit, and a pitting knife carried by said shaft to swing in an arc around said gripping means to sever a peach half from the pit half held by said gripping means.

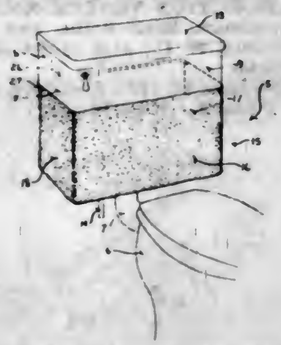
2,652,873
SECURING DEVICE FOR WALLETS
Jack Barricini, Scarsdale, N. Y.
Application January 2, 1952, Serial No. 264,587
1 Claim. (Cl. 150—47)

A device for securing a wallet and the like in a pocket; said device comprising a mounting plate adapted to be secured to the outside of a wallet, a slidable member, means mounting said slidable member on said mounting plate for positional adjustment relative to the latter, a U-shaped guide member fixed at the ends of its parallel side legs on said slidable member and spaced from the latter to define a downwardly opening space therebetween for receiving the edge portion of a pocket in which the associated wallet is disposed, a gripping finger pivotally mounted at one end between said ends of the parallel side legs of the guide member and extending between said side legs, spring means acting



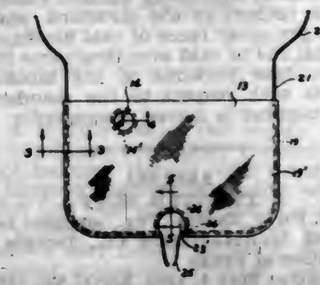
on said finger and urging the latter to pivot in the direction moving the free end of said finger laterally into said space for holding the edge portion of a pocket in said space to thereby prevent removal of the associated wallet from the pocket, and an actuating head extending from the pivoted end of said finger so that manual pressure on said head will effect removal of said free end of the finger from said space.

2,652,874
COVERING FOR TOILET FLUSH TANKS
Alice E. Armstrong, Milwaukee, Wis., assignor, by mesne assignments, to Rhen Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Continuation of application Serial No. 51,271, September 25, 1948. This application October 30, 1950, Serial No. 192,966
1 Claim. (Cl. 150—52)



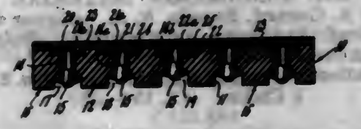
As an article of manufacture for use with a toilet flush tank having exposed bottom, front and side walls subject to condensation of moisture thereon, means for collecting and disposing of said moisture comprising a one piece jacket open at its top and back, said jacket comprising a rectangular front panel of a width to reach across the entire front of the flush tank and a height to extend from the bottom of the tank to above the normal level of water in the tank so that the exposed front wall of the tank can have its major portion covered by said panel, similar rectangular side panels joined to the opposite side edges of said front panel and having a height equal thereto but being substantially narrower in width to correspond substantially to the width of the side walls of the flush tank and to cover the major portion thereof from the bottom of the tank to a height corresponding to the height of the front panel, and a bottom panel joined to the lower edges of the front and side panels and of a size and shape to cover the major portion of the exposed bottom wall of the tank, said bottom panel having an aperture therein opening to its rear free edge to accommodate piping projecting from the bottom of the tank; and means for holding the jacket in place upon a flush tank including attaching means connected with the upper rear corners of the side panels and engageable over the upper rear portions of the flush tank, and cooperating fastening means on the bottom panel at opposite sides of and near the edges of the aperture therein and adjacent to the rear free edge of the bottom panel, said cooperating fastening means being connectable substantially to close the mouth of the aperture around the piping projecting from the bottom of the tank to thus coact with said attaching means in holding the jacket in place upon the tank, said jacket being made substantially entirely of porous, water absorbent fabric comprising a single layer of turkish toweling or the like and being of sufficient thickness as to be capable of absorbing and retaining substantially the entire quantity of moisture condensed upon said tank walls during normal periods of use of said tank and said fabric being capable of permitting ready evaporation of substantially all of said absorbed moisture during periods of inactivity of said tank.

2,652,875
COVER FOR TOILET TANKS
Elizabeth Fuste, Detroit, Mich.
Application February 26, 1951, Serial No. 212,712
1 Claim. (Cl. 150—52)



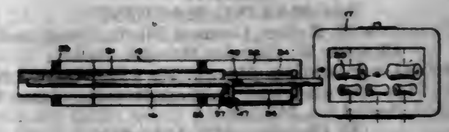
A cover for a toilet tank having a plunger handle projecting from its front wall and having a drain pipe consisting of an absorbent fabric of generally rectangular shape with its central portion adapted to bear against the front wall of the tank, with its opposite side portions rearwardly foldable along and against the side walls of said tank, and with said central and side walls covering portions foldable at their lower ends throughout a portion of the bottom wall of said tank, elongated strips of material mounted upon the rear surface of said fabric adjacent the rear edges of said side and bottom wall covering portions and secured thereto along the opposite longitudinal edges of said strips defining slotted passages between said strips and said fabric, a pair of tapes respectively positioned loosely through said passages and secured at their inner ends to the inner ends of said passages, the opposite ends of said tapes projecting from said passages and adapted for tying together behind and adjacent the rear wall of said tank, the bottom wall covering portion of said fabric having a notch at its rear edge to cooperatively receive said drain pipe, the said inner ends of said tapes projecting outwardly from the opposite outer corners of said fabric bounding said notch adapted for tying together behind said drain pipe, said central portion having a circular opening adjacent its upper end to cooperatively receive the tank plunger handle, and an elastic loop of less diameter than the diameter of said opening secured to the fabric boundary of said opening to permit expansion of said opening to permit introduction of said handle therethrough.

2,652,876
ANTISKID TREAD SURFACE
Harold Eisner, Au Marronier, Prangins, Switzerland
Application June 3, 1950, Serial No. 165,901
5 Claims. (Cl. 152—210)



1. The combination, with a body having a rubber tread surface with grooves therein, of elements associated with said body and accommodated in said grooves and below said tread surface, said tread surface having a median portion, said elements being anchored in said grooves, respectively, and progressively increasing in length toward said tread surface from said median portion, whereby at least some of said elements are positioned at different levels with respect to said tread surface.

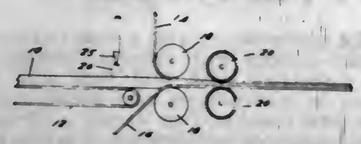
2,652,877
MEANS FOR FEEDING ROUND METAL STOCK SUCH AS BARS AND RODS TO STRAIGHTENING OR REELING MACHINES
Alfred Travis, Woodley, near Stockport, England
Application March 2, 1950, Serial No. 147,322
In Great Britain March 5, 1949
7 Claims. (Cl. 153—91)



1. A device for feeding elongated round metal stock to a straightening machine embodying rolls adapted to grip and advance and simultaneously to rotate the stock about its own longitudinal axis, said device comprising in combination, a pair of gripping jaws adapted frictionally to grip the stock from opposite sides thereof while permitting of it rotating about said longitudinal axis, a guide supporting said pair of gripping jaws for reciprocation in a direction parallel to the axis of feeding of the stock to the rolls, means for effecting reciprocation of said gripping jaws along said guide, one of said two jaws constituting a first jaw and carrying a bearing, said other jaw being supported by said bearing for pivotal movement about an axis transverse of the direction of reciprocation of said jaws between a stock gripping and a stock release position, said pivoted jaw being adapted to engage with the stock at a position along said axis of reciprocation which is in advance of said jaw pivot, a lever element pivotally connected to said first jaw, a fixed striker member, said lever element being adapted to engage said striker member and to ride over the same when said jaws are reciprocated along said

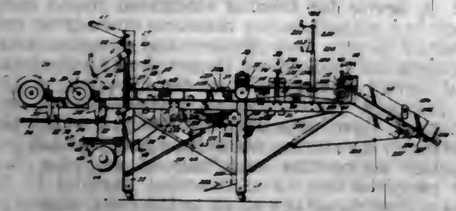
guide in either direction and to pivot relative to said first jaw on engaging said striker element, an arm element connected to said pivoted jaw to pivot therewith, a pair of spaced abutments on one of said elements adapted operably one or the other to be engaged with an abutment on the other element when the lever element engages with said striker member in one or the other direction of reciprocation of the jaws to displace said pivoted jaw into one or the other of two positions, and spring means adapted to retain said pivoted jaw releasably in one or the other of its said two positions.

2,652,578
METHOD OF MAKING SHOCK ABSORBING AND INSULATION MATERIAL
George A. Gerard, Roselle, N. J., assignor to Cottonwood Products, Incorporated, Baltimore, Md., a corporation of Maryland
Application November 30, 1951, Serial No. 259,042
1 Claim. (Cl. 154—28)



The method of forming a shock absorbing, insulation material which comprises feeding a web of macerated reclaimed newsprint between top and bottom sheets of paper stock, wetting the web with a volatile printing ink solvent prior to its passage between said sheets, feeding such superimposed layers of material between compressing and embossing rollers to produce a laminated sheet having opposite surfaces defined by alternate elevated and depressed areas, and sealing the opposite edges of said sheets together.

2,652,879
BAGMAKING MACHINE
Theodore W. Keller, Council Bluffs, Iowa, and Charles W. Garvin, Omaha, Nebr.
Original application March 23, 1949, Serial No. 82,934. Divided and this application June 19, 1951, Serial No. 240,768
23 Claims. (Cl. 154—42)



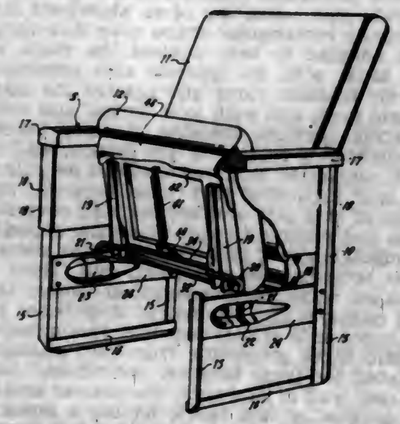
1. Apparatus for making bags from tubular thermoplastic stock comprising a first pair of feed rolls, a second pair of feed rolls, means for intermittently driving said feed roll pairs in unison, intermittently operated sealing means positioned intermediate said feed roll pairs, intermittently operated cutting means positioned beyond said second feed roll pair, means coordinating the operation of said feed roll pairs, said sealing means and said cutting means whereby said sealing means and said cutting means operate between intervals of feed roll operation, and means for adjusting the stock length between said sealing means and said cutting means.

2,652,880
TRACTOR SEAT
Ralph W. Gundersen, St. Paul, Minn., assignor to Coach & Car Equipment Corporation, Chicago, Ill., a corporation of Illinois
Application December 6, 1950, Serial No. 199,519
11 Claims. (Cl. 155—51)



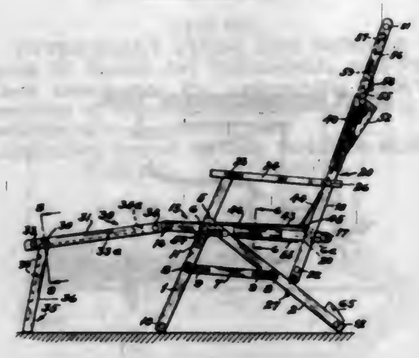
1. A yielding seat structure comprising in combination a standard, two arm structures pivotally mounted on said standard in substantially parallel relationship to each other one above the other, a seat supporting member pivotally mounted on said arm structures so as to be movable upwardly and downwardly with said arm structures, and means connected with one of said arm structures and with said standard adapted by its torsional strength to support said seat supporting member yieldingly in elevated position on said last mentioned arm structure, comprising two rubber blocks bonded to the opposite faces of an interposed plate, means for adjustably connecting said interposed plate in fixed position on said standard for holding the plate and the engaged face portions of the blocks against rotary movement with respect to the standard, and means bonded to the outer faces of said blocks and connected with one of said arm structures for giving said outer face portions of the blocks rotary movements with respect to the standard when said seat member is moved downwardly.

2,652,881
THEATER SEAT
Marion H. Rowe, Dallas, Tex., assignor to American Desk Manufacturing Co., Temple, Tex., a corporation of Texas
Application May 4, 1950, Serial No. 159,921
10 Claims. (Cl. 155—35)



5. A chair including, spaced upright standards, a hinge shaft mounted on said standards and extending horizontally therebetween, a pair of spaced hinge members pivotally mounted on said hinge shaft, a seat member carried by said hinge members, a cross bar connecting the hinge members and spaced from said hinge shaft, said hinge shaft formed to provide stop means between the hinge members projecting to engage the cross bar to limit pivotal movement of the hinge members on the shaft in one direction to stop the hinge members in position for supporting the seat member in lowered supporting position, and an elongate tension spring connected at one end to the outer portion of the seat and connected at its other end with means on the hinge shaft at a point spaced above said hinge shaft whereby the spring biases the seat toward retracted position.

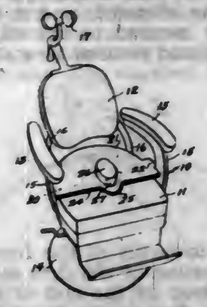
2,652,882
FOLDING CHAIR
William Kotler, Miami, Fla.
Application November 14, 1950, Serial No. 195,663
13 Claims. (Cl. 155—105)



1. In a folding chair, two rigidly connected parallel front legs, two rigidly connected parallel rear legs inclined toward said front legs and having hinge connection therewith whereby the said front and rear legs are maintained in substantial alignment as viewed from the front of the chair, a seat frame including parallel side rails slidably supported adjacent their forward ends by said front legs, side arms pivoted to the upper ends of said front legs, and a back frame including side bars having pivotal connection with said side arms and said side rails, the lower ends of said side bars bearing in slidable contact on said rear legs.

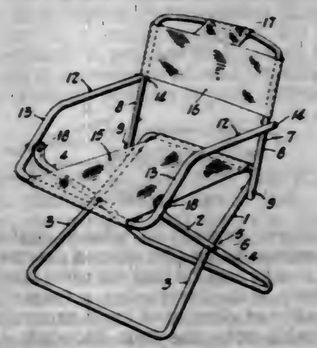
2,652,883
SUPPLEMENTAL SEAT FOR DENTAL CHAIRS AND THE LIKE
Lucian C. Heitzendorff, Valdosta, Ga.
Application May 8, 1950, Serial No. 160,694
3 Claims. (Cl. 155—121)

1. A supplemental seat for dental and similar chairs provided with a seat having a semi-circular rear portion, arms and supports therefor, and a back and supports therefor, comprising a body adapted to be arranged on the seat of the chair, and a horn carried by and projecting upwardly from said body between the sides thereof and toward the forward edge thereof to be straddled by the legs of a person sitting on said body, the back edge of said body being substantially semi-circular to correspond generally to the shape of the chair seat and to engage against supports for the back of the seat, said body at opposite sides thereof and adjacent the



front of the body having lateral projections engageable with supports for the chair arms.

2,652,884
FOLDING ARMCHAIR
John Gulson Barsness, Black Earth, Wis.
Application January 28, 1950, Serial No. 141,011
1 Claim. (Cl. 155—147)

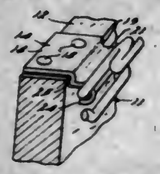


In a folding armchair of tubular metal construction comprising a substantially rectangularly shaped leg unit extending upwardly and rearwardly, a generally U-shaped leg unit with the open end extending upwardly and forwardly, said leg units being pivotally connected centrally of their upwardly extending sides, a back unit of generally U-shape with the open end connected to the sides of said first named leg unit somewhat forwardly and downwardly of its rear edge, a generally U-shape single piece arm unit with its open end pivotally attached to said back unit at an armrest height above the chair seat, the forward ends of the sides of said arm unit being bent downwardly to dispose the transverse cross member thereof in the approximate plane of the chair seat at the forward edge of the seat, and the open end of said second named leg unit being bent upwardly and pivotally attached to the downwardly bent sides of said arm unit slightly above and rearwardly of the transverse cross member of said arm unit.

2,652,885
SPRING SUPPORTING CLIP
William Engel, Detroit, Mich., assignor to No-Sag Spring Company, Warren Township, Mich., a corporation of Michigan
Application June 29, 1948, Serial No. 35,774
8 Claims. (Cl. 155—179)

6. The combination with a frame having spaced front and rear frame elements, of a clip on the

front frame element having a U-shaped hook portion spaced a predetermined distance from the inner face of said element, a clip secured to the rear frame element, and a sinuous spring strip pivotally secured to the clip on the rear frame element and secured by a straight portion



of the spring inwardly of the front end thereof to the hook portion of the first said clip to have the adjacent loop at the end of the spring engage the inner face of the front frame element to form a high arch in the strip at the front of the frame.

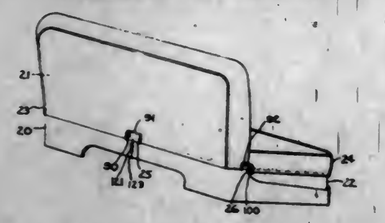
2,652,886

ATTACHING FRAME FOR SEAT COVERS

Arthur J. Richards, Detroit, Mich.

Application April 3, 1950, Serial No. 153,643

2 Claims. (Cl. 155—182)



2. In a cover formed of pliable material and shaped to surround and be slipped downward over the top of a seat and having an open hem around the periphery of its lower edge, a frame comprising a plurality of elongated rigid separable members insertable into the hem through an opening therein, means connecting said members together in an end to end relationship encircling the seat, said connecting means being adjustable as to the peripheral length of said frame.

2,652,887

DRAWER CONSTRUCTION FOR READING CHAIRS

Lucian J. FitzGerald, Waterloo, Iowa

Application May 5, 1950, Serial No. 160,144

1 Claim. (Cl. 155—188)



In a reading chair of the type having a seat portion, a transversely slidable drawer, means slidably supporting the drawer on the chair beneath said seat portion, said drawer being slidably shiftable endwise to extend beyond either side of the seat portion to provide access to the interior of the drawer, said drawer having side walls having upper portions projecting above the end walls, the facing sides of said portions being formed with grooves, a board having side edges slidably and supportably engaged in the drawer side wall grooves and normally covering the drawer, said board being positioned in the space between said drawer and the seat portion, said board being slidable on the drawer while engaged in the grooves thereof to expose contents of the drawer while the drawer is extended beyond a side of the chair.

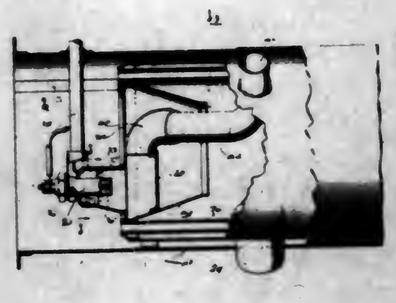
2,652,888

BURNER AND IGNITER STRUCTURE

George W. Allen, Indianapolis, Ind., and Vernon N. Tramontini, Los Angeles, Calif., assignors to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia

Original application June 14, 1946, Serial No. 676,776, now Patent No. 2,507,681, dated May 9, 1950. Divided and this application February 25, 1948, Serial No. 10,624

3 Claims. (Cl. 158—28)



1. In an internal combustion heater, a burner structure comprising a frusto-conical shell having a horizontal axis and open at its smaller end, a flat wall closing the larger end of said shell, a pocket in said wall opening into the lower portion of said shell, means to supply liquid fuel to said pocket, means to vaporize and ignite said fuel, a combustion air supply pipe discharging tangentially into the burner shell in a downward direction adjacent said flat end wall, and a vertical baffle wall extending across the lower portion of said shell in spaced relation to said end wall, the discharge end of said air supply pipe being between the end wall and the baffle wall, whereby the air flow is initially confined to the vicinity of said pocket opening to facilitate admixture of the air with the fuel.

2,652,889

OIL BURNER BAFFLE SYSTEM

Kenneth S. Jenson and Frederick W. Suhr, Wisconsin Rapids, Wis., assignors to Preway Inc., Wisconsin Rapids, Wis., a corporation of Wisconsin

Application October 22, 1948, Serial No. 55,956

10 Claims. (Cl. 158—91)

1. In combination with a pot-type burner having means for supplying thereto liquid fuel in a controlled amount, the burner wall being cylindrical and provided with primary air inlet holes arranged in a plurality of circumferential rows, a system of interconnected superposed horizontal

baffles in the burner, spaced apart vertically to position each baffle between two rows of inlet holes, each baffle having a central opening to define a vertical passageway through the system, said horizontal baffles being provided with openings and having vertical walls located at oppo-



site edges of the openings and disposed transversely of the baffles, the openings of said baffles forming ported areas, the openings in each baffle being staggered vertically with respect to the openings of adjacent baffles, and the area of the central opening in the lowermost baffle being approximately one-half that in the baffle next above.

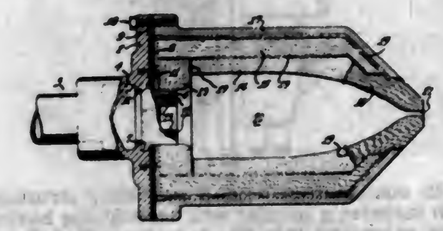
2,652,890

INTERNALLY FIRED GAS BURNER

Charles W. Merck, Jr., Philadelphia, and Tobias Koch, Lansdowne, Pa., assignors to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania

Application August 12, 1948, Serial No. 43,838

2 Claims. (Cl. 158—116)



1. In a gas burner, the combination of structure forming a combustion chamber having an inlet and a restricted outlet, conduit means to supply a combustible mixture through said inlet to said chamber to be burned therein, a screen located in said inlet and having a flat face on the side adjacent said chamber, said screen being provided with a plurality of ports of substantially the same size through which said mixture flows, and a recess on the face thereof toward said chamber, the recess extending over an area covered by several of said ports, and means to retain said screen in position in said inlet, said recess being cylindrical with its side walls perpendicular to said face and its bottom wall parallel thereto.

2,652,891

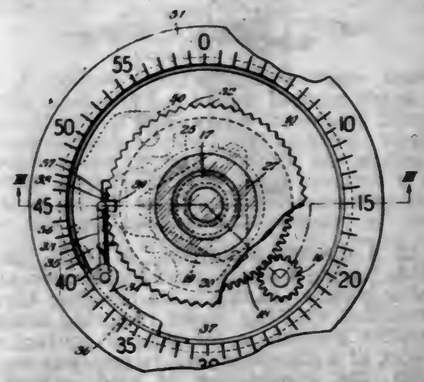
INDICATOR AND CONTROL DEVICE

Raymond C. Siebert, Park Ridge, Ill., assignor to Crescent Industries, Inc., Chicago, Ill., a corporation of Illinois

Application May 13, 1950, Serial No. 161,779

10 Claims. (Cl. 161—1)

1. A timer comprising a rotatable drive member, a rotatable driven member having a plurality of latching portions circumferentially disposed therearound, at least one of said latching portions being of different radial depth than the others, friction means connecting said drive member to said driven member, a spring, a latching member resiliently urged by said spring into engagement with said latching portions to restrain rotational movement of said driven member, and means periodically operated by said drive member for disengaging said latching member from its associated latching portions, whereby said latching member successively engages first one latching portion and then another, including said



latching portion of different radial depth, and a switch having a movable contact element connected to be actuated by movement of said latching member in a radial direction the length of throw necessary to actuate said switch being that determined by movement of said latching member into said latching portion of said different radial depth.

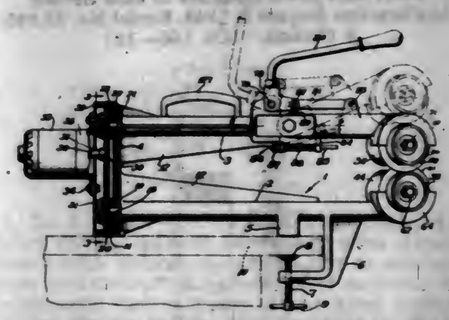
2,652,892

PORTABLE CUTTING DEVICE

Harry A. Cumfer, South Bend, Ind.; Garnetta Domke, executrix of said Harry A. Cumfer, deceased, assignor of one-third to Lucille Cumfer Hayes, Chicago, Ill., one-third to Edith Cumfer Thompson, Whittier, Calif., one-twelfth to Donald A. Cumfer, Jr., Nashville, Tenn., one-twelfth to Margaret L. Cumfer, South Bend, Ind., one-twelfth to Dianne Cumfer, and one-twelfth to Harry Cumfer, both of Houston, Tex.

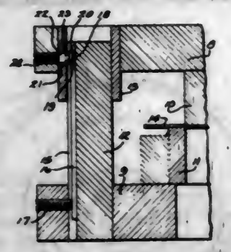
Application August 6, 1949, Serial No. 109,630

5 Claims. (Cl. 164—61)



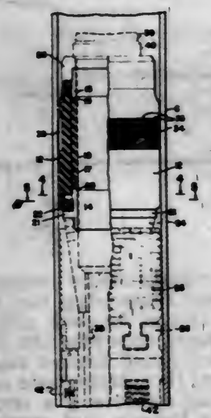
1. A portable cutting device comprising in combination, a frame comprising two spaced arms, a cutting head carried by each arm, one of said arms being pivoted intermediate its length to move said cutting heads toward and away from each other, means for rotating said cutting heads, each cutting head comprising a circular cutting knife, means for locking said pivoted arm with the knives of said cutting head in shearing relation to each other, and means intermediate of and on one of said arms for moving that part of said pivoted arm which carries the cutting head away from the other arm to permit disposition of material to be cut between said cutting heads.

2,652,893
DIE SET LEADER BEARINGS WITH VARIABLE CLEARANCE
Kasimir Janiszewski, Milwaukee, Wis.
Application August 30, 1948, Serial No. 46,903
18 Claims. (Cl. 164—118)



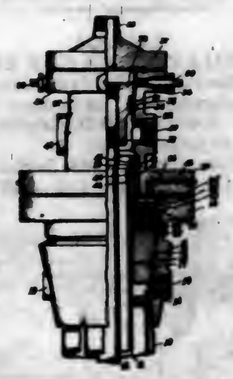
1. In a die set comprising a punch carrier member having a punch mounted thereon and a die shoe member having a die mounted thereon for coaction with the punch requiring accuracy of relative position at the time of contact with the work of a die and punch respectively carried thereby, the combination of guide means for guiding said carrier and shoe members for relative reciprocation and comprising a leader pin connected to one of said members and a bushing connected to the other of said members, said leader pin and bushing being machined to provide free sliding fit throughout the greater range of reciprocation of the pin respecting the bushing, and cam and cam follower means mounted on said guide means and positioned for engagement solely in a range of movement including the point of co-action between the punch and die, said cam and cam follower acting laterally upon the leader pin and bushing to tighten the bearing engagement therebetween in said range to steady the punch carrier plate at said point.

2,652,894
HOLD-DOWN SLIP ASSEMBLY FOR WELL PACKERS
Cicero C. Brown and Floyd L. Scott, Jr., Houston, Tex.; said Scott assignor to said Brown
Application August 9, 1948, Serial No. 43,295
8 Claims. (Cl. 166—12)



1. In well packers, a supporting base adapted to be anchored to the wall of a well casing against downward movement therein, a hold-down slip assembly mounted on said base, comprising, a resilient sleeve member supported at its lower end by said base and radially expandible by axial compression thereof against said base, a compression member axially slidable through the bore of said sleeve member, laterally extending external abutment means mounted on said compression member and movable therewith into axial engagement with the upper end of said sleeve member, to axially compress and radially expand said sleeve member, and a plurality of toothed slip elements circumferentially arranged on and secured to the periphery of said sleeve member movable into and out of gripping engagement with said well casing coincident with the radial expansion and contraction of said sleeve member.

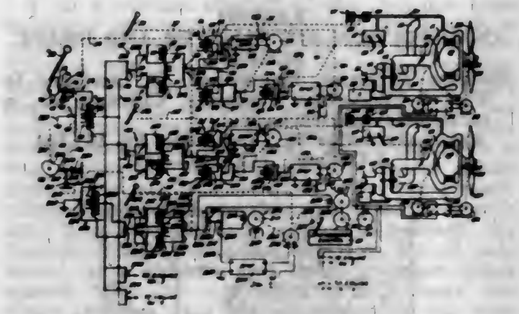
2,652,895
SEALING DEVICE FOR WELL HEADS
Hubert L. Arrowood, Tulsa, Okla., assignor to Hinderliter Tool Company Division H. K. Porter Company, Inc., a corporation of Pennsylvania
Application February 16, 1950, Serial No. 144,467
4 Claims. (Cl. 166—14)



1. In combination with a well head structure which includes a tubular well head fitting having a pipe extending into the bore thereof defining an annular space therebetween, the upper end of said pipe being open to communication with said annular space, said structure having an annular compressible primary sealing element sealing said annular space at a point below the open end of the pipe, a pressure-excluding seal means for the portion of said annular space which extends between the open end of the pipe and said primary sealing element, comprising, a tubular metallic sleeve member slidable over the open end of the pipe into said portion of said annular space and positioned therein with its lower end seated on said primary sealing element, and compressible resilient sealing rings of the O-ring type circumferentially seated in the inner and outer surfaces of said sleeve member and projecting radially therefrom into sealing engagement respectively with the adjacent concentric surfaces of said pipe and said fitting.

2,652,896
COMBUSTION ENGINE POWER CONTROL APPARATUS
Alex B. Chudyk, St. Louis Park, and Robert J. Kutsler, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 8, 1948, Serial No. 53,532
8 Claims. (Cl. 170—135.74)

3. Control apparatus for use with an internal combustion engine driving a variable pitch propeller and having a manifold with a throttle therein, comprising in combination: a single manually operable power selecting control lever for selecting the power output of the engine; manifold pressure controlling means connected to the throttle for controlling the manifold pressure; propeller pitch controlling means connected to the propeller for controlling the pitch of the propeller; manifold pressure controlling motor means connected to said manifold pressure controlling means for variably adjusting said manifold pressure controlling means; propeller pitch controlling motor means connected to said propeller pitch controlling means for variably adjusting said propeller pitch controlling means; electric signalling, calibrating, rebalancing and amplifier means inter-connecting said lever and said manifold pressure controlling motor means and said propeller pitch controlling motor means such that both said motor means are operated in accordance with the positioning of said power selecting control lever, the signalling and calibrating portions of said electric signalling, calibrating, rebalancing and amplifier means each including a first adjustable potentiometer having a resistor and a wiper mechanically connected to said power selecting control lever for movement thereby, a first source of voltage having two end terminals to which the resistor of said first adjustable potentiometer is connected and a tap, a cruise power



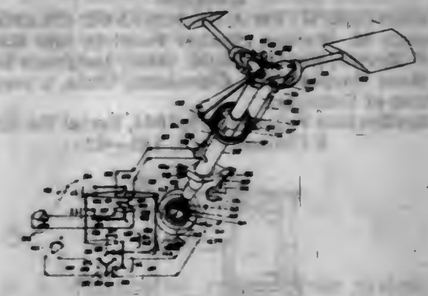
calibration potentiometer having a resistor connected between one of said end terminals and said tap of said first source of voltage and a wiper, a low and high power calibration circuit comprising second and third sources of voltage, a low power calibration potentiometer having end terminals connected to said second source of voltage and a wiper, a high power calibration potentiometer having end terminals connected to said third source of voltage and a wiper, and a calibration selecting potentiometer having end terminals connected to said second and third sources of voltage, respectively, and a wiper, the wipers of said cruise power, low power and high power calibration potentiometers being inter-connected; mechanical means connecting said power selecting control lever in operative relation to said calibration selecting potentiometer for adjustment by the power selecting control lever such that upon said power selecting control lever being in one extreme position said cruise power and low power calibration potentiometers are effective to calibrate said calibrating portions of said electric signalling, calibrating, rebalancing and amplifier means and upon said power selecting control lever being in the opposite extreme position said cruise power and high power calibration potentiometers are effective to calibrate said calibrating portions of said electric signalling, calibrating, rebalancing and amplifier means.

2,652,897
PROPELLER BLADE CONSTRUCTION
Frank M. Le Compte, Chatham, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application March 31, 1950, Serial No. 153,255
2 Claims. (Cl. 170—159)



2. A hollow metal propeller blade assembly having at one end a hollow tapered shank portion and at the other end a bifurcated flattened, edge-separated thrust and camber members bonded to one another adjacent the leading and trailing blade edges by rubber forming a blade portion, one of said members extending chordwise beyond the bonding rubber to provide metallic leading and trailing blade portion edges, said blade having a typical cross-section wherein the thrust member is thickened along each edge, the camber member is narrower than and spaced apart from said thrust member forming gaps between said members inwardly of the leading edge and trailing edge, and wherein the bonding rubber fills said gap and forms part of the external airfoil profile of the blade portion, said rubber extending inwardly in a chordwise direction, between the members and being bonded thereto to provide the sole lateral edge joints therebetween in the flattened blade portion of the assembly.

2,652,898
DEVICE FOR STABILIZING ROTARY-WING AIRCRAFT
Pierre Edouard Renoux, Aix-en-Provence, France, assignor to S. A. Societe Nationale de Constructions Aeronautiques du Sud-Est
Application July 3, 1948, Serial No. 36,896
In France February 18, 1948
6 Claims. (Cl. 170—160.25)



1. In a device for stabilizing in flight gyroplanes having at least one rotary wing structure tiltable with respect to a fixed line of said gyroplane and including a plurality of variable pitch blades, said device being of the kind including piloting devices which are actuatable by the pilot for controlling the general pitch and the cyclic pitch of the structures and a device connected with at least one of said piloting devices for algebraically adding to the corresponding pitch determined by the pilot a value which is a function of the variations of a total angle equal to the sum of the longitudinal component of the tilt angle of at least one of said structures with respect to said fixed line and of the longitudinal component of the control angle formed by said fixed line with the perpendicular to the control plane with respect to which the chord of the cross-section of a blade makes a constant pitch angle during the rotation of said blade, in com-

bination, a support secured to the inner end of each blade pertaining to each structure the axis tilt angle of which is to be used, a roller rotatable on said support about an axis displaced with respect to the longitudinal axis of each blade, a tiltable annulus provided with a runway for said rollers and centered on the tiltable axis of the corresponding structure, adjustable resilient means for applying said annulus against said rollers, means for adjusting said resilient means, a fork for suspending said annulus on a diameter forming with the longitudinal axis of the gyroplane an angle equal to the angle of displacement of the rotary axes of said rollers with respect to the longitudinal axis of the corresponding blade, an intermediate T-shaped member having its opposite arms pivoted to said fork around an axis parallel with the suspension axis of said annulus, a support secured to said gyroplane for journalling the central arm of said T on an axis so determined that said rollers will be adapted to rid on said annulus with a minimum amount of lateral slippage, a V-member pivoted to said fork on each side of said intermediate member on an axis parallel with said annulus suspension axis for measuring the oscillations of said annulus about an axis located in its plane and normal to said suspension axis, means for preventing displacement of said V-member out of a plane parallel with the vertical plane extending through the suspension axis of said annulus, a control horn contained in the plane of movement of said V-member, a control system connected with said horn for controlling the device of algebraic addition, a link extending from said V-member to said horn and resilient means to compensate for the effects introduced by said horn and said control system, whereby said horn is adapted to repeat the longitudinal component of the axis tilt angle of said structure as measured by said V-member.

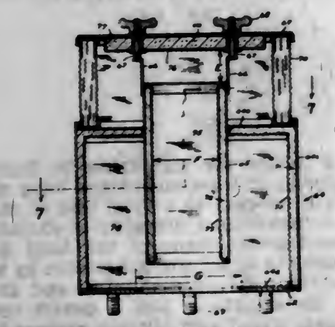
2,652,899

SILENCER WITH A RESONANCE CHAMBER

George M. Walten, Shaker Heights, and Richard E. Brown, South Euclid, Ohio, assignors to Air-Maze Corporation, Cleveland, Ohio, a corporation of Delaware

Application February 13, 1948, Serial No. 8,088

4 Claims. (Cl. 181—42)



1. In a silencer, the combination of a wall surrounding an orifice, a cylindrical tube having one end spaced from said wall and concentric with said orifice, a second wall spaced from the other end of said tube and opposite said other end and providing an anunlar throat there, a resonance chamber communicating with said one end of said tube and including said first named wall, and the area of said annular throat being of the order of one hundred to one hundred and fifty percent of the flow area of said tube.

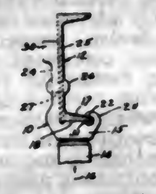
2,652,900

ANVIL FOR ATTACHMENT TO ELECTRODE STRUCTURES OF ELECTRICAL PRECIPITATORS

William F. Hull, Lomita, Calif., assignor to Western Precipitation Corporation, Los Angeles, Calif., a corporation of California

Application March 27, 1951, Serial No. 217,725

6 Claims. (Cl. 183—7)



1. An anvil for a structural member of angular configuration, comprising: a blow receiving body bearing against the structural member over a surface in a plane transverse to the direction of blow delivery; and an integrally formed open hook on one side of the anvil body adapted to receive a portion of the structural member within the hook and deflect said portion slightly when the anvil body bears against the structural member over said surface.

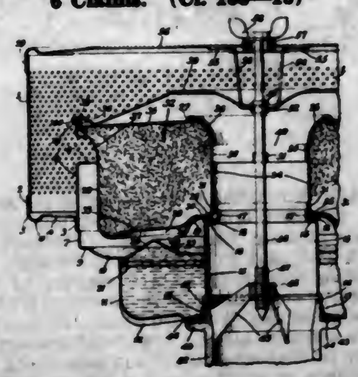
2,652,901

COMBINATION AIR CLEANER AND CHAFF SCREEN

Maurice T. Moler, Homewood, Ill., assignor to United Specialties Company, Chicago, Ill., a corporation of Delaware

Application May 31, 1950, Serial No. 165,325

6 Claims. (Cl. 183—15)



2. In combination in an air cleaning assembly, a member defining an oil cup and including a tubular air outlet member, a filter housing including an outer portion, said filter assembly including a tubular air outlet passage member adapted to cooperate with said first mentioned air outlet passage member to form therewith a continuous outlet passage member through which air leaves the cleaner, a cover plate positioned to overlie said air cleaner and positioned above said air outlet passage member, a chaff screen positioned outwardly from said oil cup, a member secured to said oil cup and positioned to engage said chaff screen, a cover plate secured to said chaff screen and overlying the area bounded by said chaff screen, a joining means comprising a part positioned within said air outlet passage extending through said air cleaner cover and extending through said chaff screen cover, and means for moving said joining means to hold said oil cup, said filter housing, and said chaff screen and its cover in predetermined assembled position.

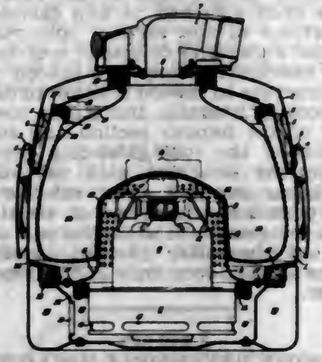
2,652,902

BAG SUPPORT AND MOTOR SHIELD FOR SUCTION CLEANERS

Robert E. Sheahan, Chagrin Falls, Ohio, assignor to General Electric Company, a corporation of New York

Application December 7, 1951, Serial No. 260,390

2 Claims. (Cl. 183—57)



1. In a suction cleaner of the canister type having a substantially cylindrical body with a central air inlet opening at its top end, a dust filtering bag made entirely of porous flexible material positioned within the body adjacent and below said opening, and a motor and fan unit centrally located in the bottom of said body beyond said filter bag, that improvement in a bag supporting air deflector and motor shield comprising an inverted generally cup-shaped substantially rigid member axially aligned with said inlet opening and positioned between the bottom of said filter bag and the top of said motor, said support and shield member being spaced from the side walls of said body, the space between said cup member and the side walls forming an annular dust-collecting pocket in said bag surrounding said inverted cup, a convex imperforate end wall deflecting area on said cup member positioned opposite the inlet opening under the bag, said cup member extending over and around the sides of said motor and said member having perforations therein outside of said imperforate area.

2,652,903

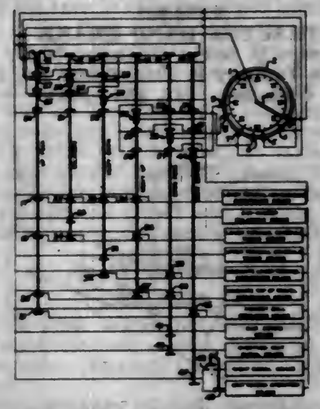
AUTOMATIC ELEVATOR CONTROL

Joseph H. Borden and Walter A. Nikazy, Toledo, Ohio, assignors to Haughton Elevator Company, Toledo, Ohio, a corporation of Ohio

Application October 18, 1951, Serial No. 251,848

22 Claims. (Cl. 187—29)

22. A system of controls for a bank of elevators comprising, in combination, lower terminal non-sequence dispatching means, car-number balancing means, lower terminal schedule timing means, upper terminal schedule timing means, immediate lower terminal dispatching means, immediate top of travel dispatching means, highest call operation means, means for switching together said lower terminal non-sequence dispatching means, said lower terminal schedule timing means and said immediate top of travel dispatching means and thereby conditioning the system to operate according to a program appropriate for Heavy Up traffic, means for switching together said lower terminal non-sequence dispatching means, said car-number balancing means and said lower terminal schedule timing means and thereby conditioning the system to operate according to a program suitable for Balance traffic, means for switching together said lower terminal non-sequence dispatching means, said upper terminal schedule timing means and said immediate lower terminal dispatching means



and thereby conditioning the system to operate according to a program appropriate for Heavy Down traffic, means for deconditioning the system for operating according to a program previously in effect whenever the system is conditioned for operating according to a newly initiated program, and means for causing each of said means for switching to operate at a predetermined time.

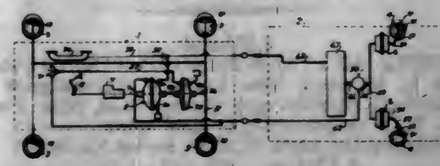
2,652,904

TRACTOR AND TRAILER BRAKE SYSTEM

Owen M. Whitten, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware

Application January 12, 1948, Serial No. 1,760

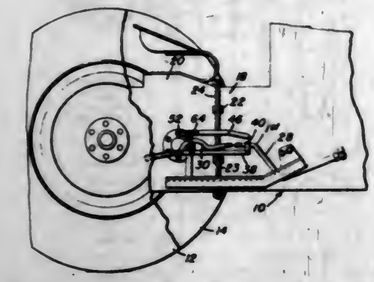
7 Claims. (Cl. 188—3)



1. In a tractor and trailer brake system, a vacuum suspended power device operable by differential air pressure for operating a tractor brake, an atmospheric suspended power device operable by differential air pressure for operating a trailer brake, a relay valve for controlling operation of said trailer power device, a control line between said tractor power device and relay valve to transmit air pressure from the former upon energization thereof to the latter, a control device operable by differential air pressure for restraining power operation of said tractor power device, said control device comprising a housing and a diaphragm within and cooperating with said housing to form chambers at opposite sides of said diaphragm, said diaphragm being normally subject on one side to air at atmospheric preasure and on the opposite side to air at sub-atmospheric pressure opposing power operation of said tractor power device, and means for connecting the chamber at said opposite side to said control line to increase the air pressure in

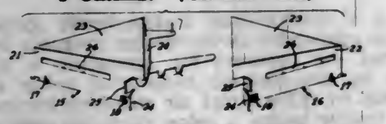
said last mentioned chamber and progressively reduce the difference in pressures of air at opposite sides of said diaphragm whereby said control device exerts a progressively decreasing force becoming less than that of said tractor power device when energized to permit power operation of said tractor power device.

2,652,905
TRACTOR HAND BRAKE
George E. Arnio, Oneonta, N. Y.
Application January 3, 1951, Serial No. 204,944
4 Claims. (Cl. 188—204)



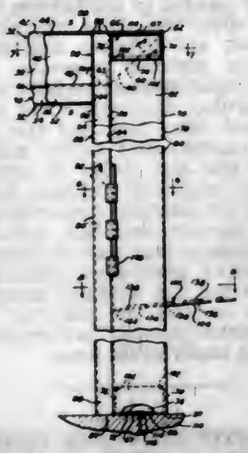
1. The combination with a pair of swingable brake arms operative independently to operate separate brake mechanisms independently, of a bar operatively connected at its ends to said arms, respectively, said bar being downwardly displaceable in a vertical plane to operate said arms simultaneously and swingable downwardly by independent operation of either arm, the operating connection between one end of said bar and one of said arms providing for lost motion between said bar and arm whereby said arms are operative independently of each other, a pivoted hand lever, and means operatively connecting said hand lever and bar for displacing said bar by operation of said lever in one direction comprising lost motion connections between the bar and lever providing for downward swinging of said bar independently of said lever.

2,652,906
MOBILE AIRPLANE HANGAR STRUCTURE
John L. Mitchell, New York, N. Y., assignor to Mitchell Mobilhangar Corporation, New York, N. Y., a corporation of New York
Application April 27, 1949, Serial No. 89,977
5 Claims. (Cl. 189—1.5)



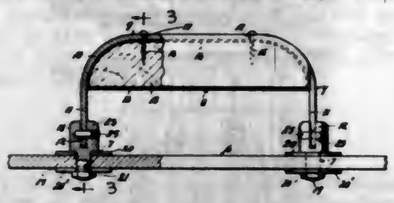
1. A generally diamond-shaped mobile aircraft hangar construction, consisting of a pair of similar separately movable sections each of generally triangular-shape in plan and having a closed end and an open end, each section comprising a pair of upright side walls converging toward each other to form the closed end of the section, the ends of the side walls at the closed end of each hangar section being rigidly joined together to form a rigidly braced structure, a roof for each hangar section supported by the side walls thereof and extending from the closed end of the section to the opposite ends of the side walls thereof, the roof and side walls of each hangar section forming a structure having an open end opposite its closed end, the edges of the side walls and roof of one hangar section at its open end matching and engaging the edges of the facing side walls and roof, respectively, of the open end of the other hangar section when the pair of hangar sections are brought together to form an enclosed hangar structure with said hangar sections opening directly into each other, and means for supporting the roof at the open end of each hangar section including a vertical column inwardly of such end at each side thereof, a braced roof-supporting structure extending across the open end portion of the hangar section inwardly of the edge of the roof with its respective ends attached to and carried by the upper portions of the vertical columns of said section, and a plurality of braced roof-supporting members distributed along said braced roof-supporting structure in spaced relation to each other and extending laterally therefrom toward the open end of the hangar section and supporting the portion of the roof extending beyond said roof-supporting structure, said pair of hangar sections being movable apart relative to each other to permit the entrance of an aircraft to a position to be enclosed when the pair of hangar sections are thereafter brought together with their edges at their open ends in engagement with each other.

2,652,907
KNOCKDOWN REVERSIBLE HOLLOW METAL DOORFRAME
Karl B. Miller, Chicago, Ill., assignor to Firecraft Corporation, Chicago, Ill., a corporation of Illinois
Application April 12, 1947, Serial No. 741,064
4 Claims. (Cl. 189—46)



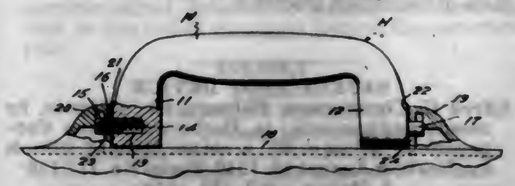
2. A metal frame member of generally channel shape having inturned co-planar lips extending from the flanges thereof, a plug secured to the inner faces of said lips and two opposite walls of said plug being spaced inwardly from said flanges a distance equal to the thickness of the metal of said frame member, one of the other walls of said plug being spaced inwardly from the extremities of said lips a distance equal to the thickness of said metal, the distance between the exterior faces of the other two opposite walls of said plug being equal to the interior distance between said lips and the web of said frame member, said flanges being mitered, the adjacent end of said web being spaced from the plane containing a pair of ends of the said lips and normal to the axis of said member a distance equal to the distance between the exteriors of said lips and said web, a second generally channel-shaped metal frame member cut with an end thereof normal to its axis and of the same configuration, dimensions and thickness as the first frame member except that the second frame member is narrower than said first frame member by a distance equal to twice the thickness of said metal, said second frame member being disposed with its lips engaging the outer wall of said plug and abutting the inner faces of the lips of said first frame member, the flanges of said second frame member being disposed between the first mentioned opposite walls of said plug and the flanges of said first frame member and abutting said lips of said first frame member, the web of said second frame member engaging the free end of the web of said first frame member and abutting the lips of said first frame member and engaging the innermost wall of said plug.

2,652,908
HANDLE FOR LUGGAGE AND THE LIKE
Ross Fuller, Philadelphia, Pa., assignor to Philadelphia Leather Goods Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application January 23, 1948, Serial No. 3,919
2 Claims. (Cl. 190—58)



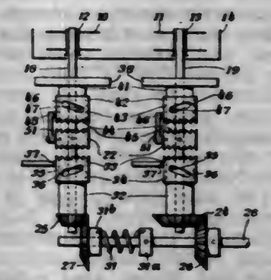
1. A handle for bags and the like comprising a wood grasp shaped to provide a transversely curved lower surface and having a longitudinal continuous groove on the upper surface thereof; an inverted U-shaped strap having its web portion positioned in the groove and having leg portions extending below the grasp; bearing means having open-end slots for reception of the extending leg portions and having shank extensions; longitudinally directed pivot means in opposed sockets intersecting the open-end slots for engagement with the extending leg portions; and clamp means on said shank extensions for rigid attachment of the handle to a bag; said wood grasp being sheathed in material corresponding to that of the bag; the terminal edges of said material being overlapped and positioned beneath said strap and in the grasp groove; and said wood grasp, sheathing material and strap being rigidly attached together by barbed elements anchored in said grasp and extending through said strap and said overlapped edges.

2,652,909
LUGGAGE HANDLE
Aleck Knell, Los Angeles, Calif.
Application June 27, 1950, Serial No. 170,627
1 Claim. (Cl. 190—58)



A luggage handle comprising, in combination with a luggage frame part, a pair of lugs fixed to the frame part in spaced relation and having opposing flat faces, each of said faces having an aperture therein, the apertures being in line longitudinally of the frame part, a handle member of substantially U-form having spaced legs, said legs having flat faces on the remote sides thereof and spaced apart a distance slightly less than the distance between said lug faces, said handle being positioned with said legs between said lugs and with each leg face in closely spaced opposed relation with a lug face, a fixed pin in and extending from the face of one leg into the adjacent lug aperture, the other leg having a bore therein in axial alignment with said pin and opening through the said face thereof in line with the adjacent lug aperture, said bore being closed at the end remote from said face, a pin slidably positioned in said bore to partially project therefrom, and an expansion spring in said bore bearing at one end against the closed end thereof and urging the slidable pin outwardly into the adjacent aperture.

2,652,910
DRIVE FOR WINDING MECHANISM
John Edward Godeck, Esher, England, assignor to Brecomin (England) Limited, Gillingham, England
Application January 16, 1951, Serial No. 206,131
In Great Britain May 5, 1948
10 Claims. (Cl. 192—4)

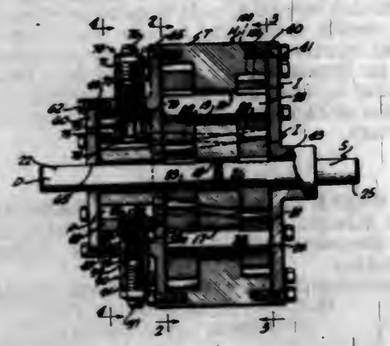


1. A winding mechanism having, in combination, two rotatable winding-holder spindles, a driven clutch member fixed to each spindle, driving clutch members slidable upon the respective spindles to engaging positions in which they are respectively engaged with the respective driven clutch members and to disengaging positions in which they are respectively disengaged from the respective driven clutch members, means for simultaneously rotating the driving clutch members selectively in one direction or the reverse direction, and means operable upon the commencement of the rotation of the rotating means in the one direction for slidably actuating one of the driving clutch members into its engaging position and the other driving clutch member into its disengaging position, and operable upon the commencement of the rotation of the rotating means in the reverse direction for slidably actuating the said one driving clutch member into its disengaging position and the said other driving clutch member into its engaging position.

2,652,911
HYDRAULIC TRANSMISSION
Lyle E. Somers, Los Angeles, Calif.
Application October 8, 1948, Serial No. 53,433
7 Claims. (Cl. 192—61)

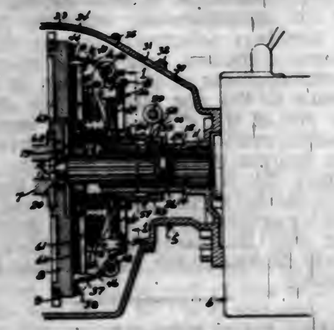
1. A hydraulic transmission which includes: a substantially cylindrical housing adapted to hold-

ing a hydraulic fluid; a pair of cover plates, with each of said plates covering one end of said housing, and one of said plates having concentric high pressure and low pressure fluid chambers formed thereon; a driving gear rotatably mounted in said housing; a driven gear rotatably mounted in said housing; gear means operatively connecting said driving and driven gear, with a portion of said means acting as a pump for the pumping of hydraulic fluid to said high pressure chamber; a valve controlling the flow of fluid from said high pressure to said low pressure chamber, with said valve closing to prevent such flow when the velocity of fluid flowing from



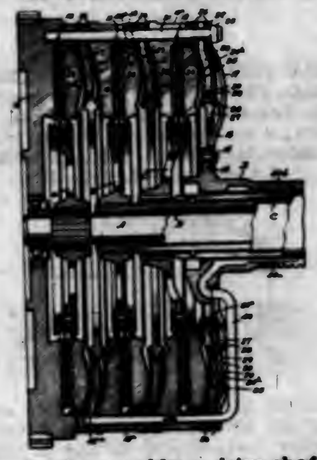
said high pressure chamber exceeds that which said fluid has when said driving shaft rotates at idling speed; and pressure relief means adapted to open to permit flow of fluid from said high pressure chamber to said low pressure chamber when the pressure in said high pressure chamber exceeds a predetermined pressure, and said valve offering a sufficient resistance to the flow of said fluid therethrough that as the speed of rotation of said driving gear is increased a point is reached at which the fluid back pressure on said pump means is sufficient to prevent the operation of said means and said housing, driving gear and driven gear rotate as an integral unit.

2,652,912
CLUTCH ASSEMBLY
Vicente Santo Domingo Bernardo, Manila, Republic of the Philippines
Application January 31, 1948, Serial No. 5,520
4 Claims. (Cl. 192—68)



1. In a clutch having drive and driven clutch members, a hollow driven shaft having an opening in the wall thereof associated with said driven clutch member, a splined shaft movably mounted in said hollow shaft for longitudinal movement into and out of engagement with the hub of said driven clutch member, a bearing in the drive clutch member for rotatably supporting one end of the splined shaft and a radially disposed spring actuated pin in said splined shaft positioned to register with the opening in the wall of the hollow shaft for retaining the same in its operative position said parts positioned to provide access to the spring actuated pin for manually releasing the drive shaft from the hollow driven shaft.

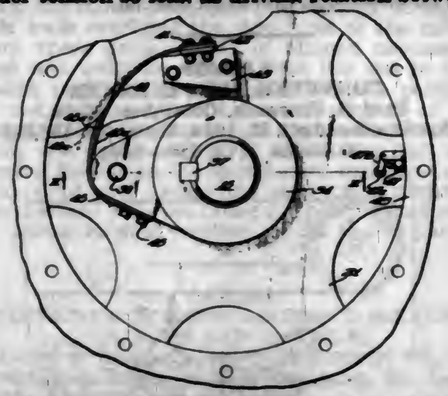
2,652,913
CENTRIFUGALLY BALANCED FLUID CLUTCH
Carl Einar Schou, Seattle, Wash., assignor to Pacific Car and Foundry Company, Renton, Wash.
Application March 18, 1949, Serial No. 82,195
14 Claims. (Cl. 192—87)



1. In a clutch assembly, a drive shaft, a clutch element, a driven drum having a pair of driven plates carried thereby and arranged at each side of the clutch plate, one of said driven plates being fixed and the other plate being shiftable for engagement with said clutch element, a fluid motor carried by said drum and arranged for actuating said shiftable plate, said fluid motor including an axially fixed backing plate of disc form carried by the drum, a pair of concave resilient parallel plates arranged at each side of the backing plate and spaced therefrom to provide chambers at each side of the axially fixed plate, an annular ring sealing the inner marginal edges of said resilient plates, and including an annular guide surface for normally engaging and forming a seal against the adjacent marginal edge of said axially fixed backing plate, port means for introducing low pressure fluid to each of said chambers, said port means being normally open to maintain the chambers under low pressure, and port means for introducing high pressure fluid into one of those chambers to unbalance the same with respect to the other chamber to cause a shifting of the resilient parallel plates to urge one of said plates into contact with the shiftable plate of the clutch assembly.

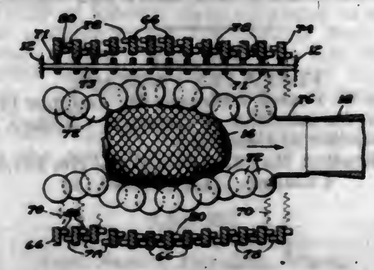
2,652,914
SAFETY STOP DEVICE
Alfred C. Christensen, Chicago, Ill., assignor, by mesne assignments, to Herbert Simpson Corporation, Chicago, Ill., a corporation of Illinois
Application August 19, 1949, Serial No. 111,158
5 Claims. (Cl. 192—150)

1. In a drive mechanism including a shaft, a rotary member, and a shear pin connecting said shaft to said rotary member in driving relation, a trip mechanism adapted to be released when said shear pin fails, said trip mechanism comprising a cantilever spring arm mounted on said rotary member for rotation therewith, means carried by said shaft for retaining said spring arm under tension so long as driving relation between



said shaft and said rotary member is established by said shear pin, said spring arm being released by said means upon fracture of said shear pin, and control means interposed in the path of travel of said spring arm upon continued rotation of said rotary member after said shear pin has been fractured.

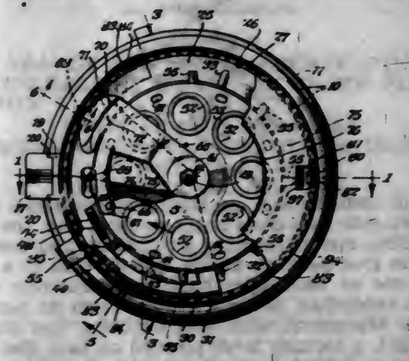
2,652,915
ALIGNING DEVICE
Harry S. Fox, Waimanalo, Oahu, Honolulu, Territory of Hawaii, assignor to Hawaiian Pineapple Company, Limited, Honolulu, Territory of Hawaii, a corporation of Hawaii
Application September 21, 1950, Serial No. 186,034
10 Claims. (Cl. 193—35)



1. In an aligning attachment of the type presenting a passageway through which the object to be aligned is caused to travel, a plurality of successive oppositely disposed pairs of roller guide members arranged along said passageway, means for yieldingly urging the members of each said pair toward each other to engage said object, means for limiting the movement of said paired members toward each other, and means associated with each said pair engageable with a successive pair upon spreading of the first said pair a predetermined distance to spread the successive pair as the object advances toward the successive pair.

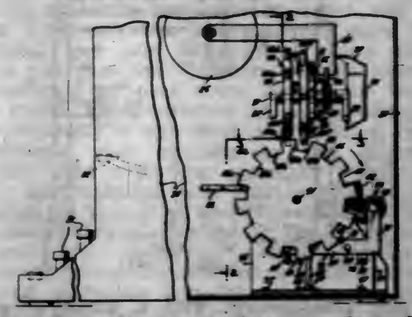
2,652,916
VENDING MACHINE
Ford S. Mason, Lockport, N. Y.
Application April 18, 1947, Serial No. 742,266
4 Claims. (Cl. 194—43)

1. In a vending machine including a base, a pan mounted thereon, a movable coin carrier, an article carrier, and a central post about which said coin carrier swings and about which said article carrier rotates, that improvement which comprises a spring member mounted above said article carrier and having a detent for holding said article carrier against rotation except when actuated by a coin, said spring member having a part secured to said post and another part



interlocked with said pan for holding said spring member in fixed relation to said machine, a collar formed to be secured to said base and extending over said article carrier and said spring member and secured to said base, said spring member having an upwardly extending part spaced from said detent and engaging said collar for preventing upward movement of said spring member when said collar is secured to said base.

2,652,917
ESCAPEMENT MECHANISM FOR TYPEWRITERS AND THE LIKE
Seyed Khalil, New York, N. Y.
Application July 16, 1949, Serial No. 105,231
31 Claims. (Cl. 197—87)



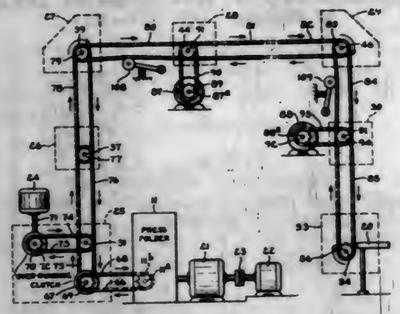
1. In a typewriter, a carriage, a universal bar moved by typing action, an escapement mechanism operatively connected to said carriage and including in combination a rotatable escapement wheel and a rotatable dog wheel, one of said wheels carrying a single row of teeth on its periphery while the other one carries two parallel rows of teeth on its periphery, the teeth in one of said last rows being disposed in a staggered order relative to those in the adjacent row, said wheels being mounted on shafts at right angles to each other so that said dog wheel forms an intermittently rotatable limiting stop against the rotation of said escapement wheel, a ratchet wheel movable with said dog wheel, a driving unit actuated by said universal bar, and a propelling unit actuated by said driving unit and including a toothed link cooperating with said ratchet wheel.

2,652,918
RIBBON ATTACHING MEANS
Erhard M. Lippert, Chicago, Ill., assignor to Victor Adding Machine Co., Chicago, Ill., a corporation of Illinois
Application September 25, 1951, Serial No. 248,173
5 Claims. (Cl. 197—175)



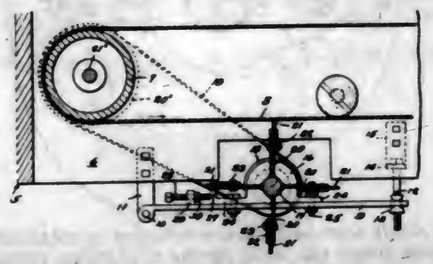
1. In combination, an inking ribbon spool having two side wall discs and a central hub, the hub including means forming a relatively narrow slot for the free passage of the end portion of a ribbon, one of said discs having a relatively wide notch extending radially inward from its periphery in alignment with and exposing the end of said slot, a locking lever pivoted on said disc and having a detent part engageable in said notch to hold the lever in locking position, and an inking ribbon extending through the slot in the hub and having anchoring means at the end of the ribbon within the hub, said means being of greater thickness than the width of the slot in the hub and of less thickness than the width of the notch in the disc.

2,652,919
DRIVE SYSTEM FOR CONVEYERS
Theodore B. Jochem, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application November 7, 1949, Serial No. 125,866
6 Claims. (Cl. 198—203)



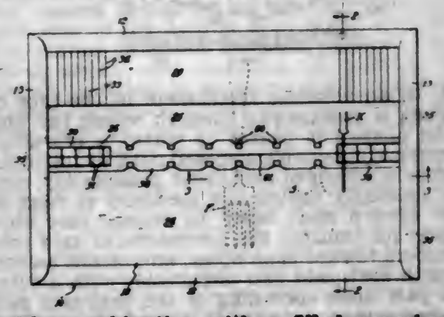
1. The combination with a conveyor which when driven affords transport of materials in a continuous manner from one point to another, a drive mechanism for said conveyor comprising a plurality of shafts in a spaced apart relation along the traverse of said conveyor to afford drive of said conveyor at a plurality of points and means interconnecting said shafts for transmitting driving power therebetween in train, a prime mover, and driving connections between said prime mover and said drive mechanism, said prime mover when energized supplying said drive mechanism with driving power, of an alternating current torque motor, driving connections between said torque motor and a shaft of said drive mechanism, said torque motor having speed-torque characteristics such that it is incapable of driving said conveyor alone under any conditions, but rendering it self-synchronizing as to speed so that when energized it inherently supplies supplemental driving torque to said drive mechanism at the same speed as that afforded the latter by said prime mover, and means affording supply of electrical power to said torque motor whenever said prime mover is supplying driving power to said drive mechanism.

2,652,920
CONVEYER BELT CLEANER
Paul E. Bowman, Columbus, Kans.
Application April 27, 1950, Serial No. 158,522
1 Claim. (Cl. 198—236)



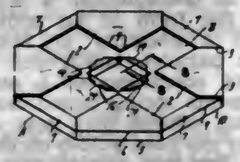
The combination with an endless conveyor belt and frame in which the conveyor belt operates, of a conveyor belt cleaner comprising a pair of spaced supporting arms, means pivotally connecting one of the respective ends of the supporting arms to said frame at opposite sides thereof, under the conveyor, oppositely disposed horizontal bearing members mounted on the arms for adjustment longitudinally of said arms, a shaft mounted within said bearing members, supporting blades extending from said shaft, rubber blades mounted on the supporting blades, said rubber blades adapted to wipe the lower flight of the conveyor with which the cleaner is used, and means for rotating said shaft and blades.

2,652,921
FLATWARE PACKAGE
Thomas W. Foster, Chicago, Ill., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application May 21, 1951, Serial No. 227,461
4 Claims. (Cl. 206—45.19)



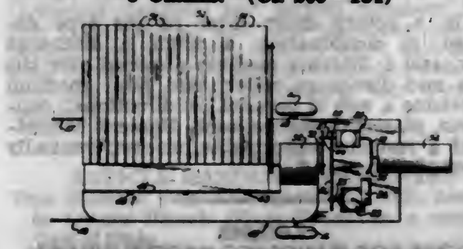
1. The combination with a filled paperboard flatware-holding tray assembly including a flat bottom part and an elongated raised saddle part having outwardly and downwardly diverging sides and disposed medially of said bottom part, there being a transverse slot formed in said saddle part and having disposed therein the handle portions of a plurality of articles such as forks, spoons or the like, there also being a transverse slit formed in said saddle part remote from the slot and having disposed therein a knife blade in frictional engagement with the walls of the slit, of a locking element for retaining said articles within the slot, said element comprising an elongated strip of paperboard material partially folded along a longitudinal center line and overlying the saddle part, said strip having diverging side walls overlying the side faces of the saddle part, there being a pair of aligned notches in said side walls in registry with the slot in said saddle part and straddling the handle portions of the articles, the intervening portion of the strip between the inner ends of the notches overlying the hump portion of the saddle part and closing the slot in the saddle part, and means on said strip and underlying said knife blade in engagement with the latter for holding said strip in article-holding position on the saddle part.

2,652,922
CONTAINER FOR PACKAGING TORUSLIKE OBJECTS AND ARTICLES
Edward F. Schweich, St. Louis County, Mo., assignor to Lewin-Mathes Company, St. Louis, Mo., a corporation of Missouri
Application March 8, 1950, Serial No. 148,283
6 Claims. (Cl. 206—59)



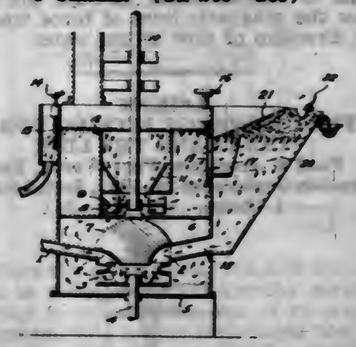
1. A package for pancake-shaped articles comprising a pair of octagonal members, one of said members being provided with marginal flaps folded up and over the other member and secured facewise thereupon, each of said members being further provided in its central area with a plurality of interior flaps arranged in an end-to-end annular series, the interior flaps of one octagonal member being folded up into overlying abutment with the interior flaps of the other member, and means for severing said overlying interior flaps together in the formation of a plural-sided hub for supporting the article housed within the container.

2,652,923
BERRY HARVESTER
Paul Names, Puyallup, Wash.
Application August 22, 1951, Serial No. 243,033
5 Claims. (Cl. 209—134)



1. In a berry harvester, a movable frame, an inclined catching board reciprocably supported on said frame and extending therealong and having a higher receiving than discharge end, means on said frame for reciprocably driving said catching board, a berry container extending along the discharge end of said catching board in receiving relation with respect thereto, and an air duct spaced from the discharge end of said catching board and extending therealong and having deflecting means therein deflecting a stream of air to flow upwardly along said catching board for the entire width thereof and to remove stems, leaves and the like from berries dropped on said catching board prior to the falling of the berries on said catching board.

2,652,924
APPARATUS FOR THE CONCENTRATING OF MINERALS BY MEANS OF FROTH FLOTATION
Rudolf Wunsch, Milan, Italy
Application July 20, 1949, Serial No. 105,843
In Italy July 21, 1948
8 Claims. (Cl. 209—169)



1. In a froth flotation apparatus means defining an agitation compartment and a spitskasten both adapted to contain pulp, a vertical wall separating the same, a horizontal partition dividing the agitating compartment into an upper aerating and agitating compartment and a lower pumping and agitating compartment, said horizontal partition having only a single opening therein, said wall having an opening therethrough above the horizontal partition and providing communication between said upper compartment and said spitskasten, pump means within the pumping compartment including a substantially enclosed rotor, means for leading pulp from the spitskasten to and feeding the same centrally of the rotor, a cylindrical casing surrounding said opening in the horizontal partition and extending upwardly within said upper compartment and terminating at least adjacent the pulp level therein, said casing being in communication with the air that is to aerate the pulp and having an opening therein adjacent the horizontal partition, a combined aerating and agitating impeller within the casing and rotatable therein at the level of said last mentioned opening, and operative to draw air into the casing to mix same at least with the pulp forced through said single opening by said pump rotor.

2,652,925
MAGNETIC TREATMENT DEVICE FOR LIQUIDS
Theophile Isidore Sophie Vermeiren, Deurne-Anvers, Belgium
Application August 16, 1949, Serial No. 110,522
In Belgium December 24, 1948
3 Claims. (Cl. 210—1.5)

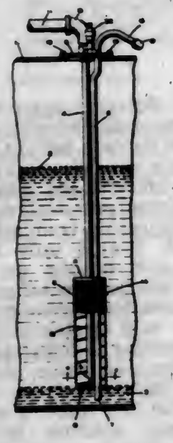
1. An apparatus for the treatment of calcareous water comprising a pipe, a series of axially aligned annular magnetic devices, each of said magnetic devices having magnetic poles at the ends thereof, said annular magnetic devices surrounding said pipe and positioned with like poles

of adjacent devices juxtaposed, and an elongated core of high magnetic permeability concentrically positioned within said pipe for facilitating the concentration of the lines of force of the fields



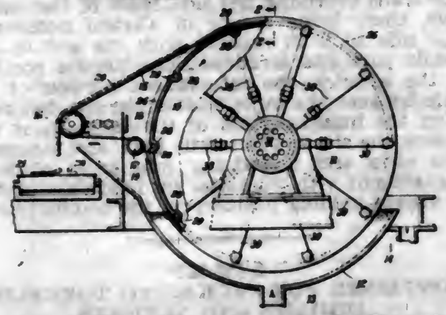
produced by said magnetic devices, said core being of such size and shape as to minimize restriction of flow of water through the pipe and to draw the magnetic lines of force transversely of the direction of flow of the water.

2,652,926
WATER DISCHARGE FITTING FOR FUEL TANKS AND THE LIKE
Paul S. Jernigan, Fort Worth, Tex.
Application September 26, 1949, Serial No. 117,919
1 Claim. (Cl. 210—94)



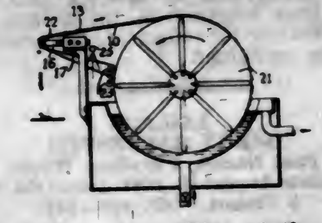
A combination fuel takeoff and water discharge fitting for a motor vehicle tank containing liquid fuel that is immiscible with water comprising a cap attachable to an opening in the upper portion of the tank, a pair of tubes secured in the cap and having portions extending into the tank and secured together, one of said tubes being connectible to a fuel takeoff line and having an inlet opening in the lower portion of the tank, and the other tube being a water eduction tube having an outlet outside the tank and an inlet opening in the lower portion of the tank below the level of the inlet opening of the first named tube, a generally cylindrical strainer device having a diameter small enough to be insertible through the tank opening surrounding the lower portions of the two tubes and secured to both of them, enclosing the inlet opening of the first named tube and having an imperforate bottom provided with an opening through which the portion of the water eduction tube having the inlet opening therein projects, and an air inlet fitting mounted in said cap for conducting air to the tank for subjecting the tank contents to pressure sufficient to discharge water through said water eduction tube.

2,652,927
FILTER MEDIUM FOR ROTARY DRUM FILTERS
Thomas R. Kemline, Ridgewood, N. J.
Application June 11, 1948, Serial No. 32,484
3 Claims. (Cl. 210—197)



1. Filtering apparatus for a drum filter of the type employing an axially rotatable drum and a discharge roller remotely spaced therefrom over which a filter web may be looped for filtering and for the discharge of accumulated solids, comprising, in combination, a filter web constructed in the form of an endless belt and composed of a plurality of flexible, endless filaments in parallel, contiguous relationship; each filament consisting of a series of non-pervious elements spring biased closely together between which effluent may pass and solids of filtration may not pass, guides on the filter drum to maintain the said relationship of the filaments, and positioning means to adjust the spacing between the drum and discharge roller and to thereby regulate the tensioning of the filaments.

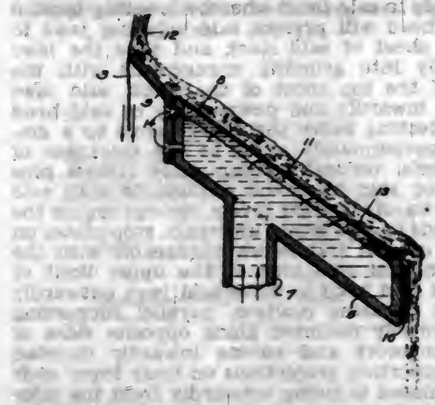
2,652,928
ROTARY DRUM FILTER
Thomas R. Kemline, Ridgewood, N. J.
Application October 5, 1948, Serial No. 52,899
3 Claims. (Cl. 210—197)



1. In a rotary drum filter of the type described, in combination, a drum, a discharge roller, and a filtering medium disposed over the drum and discharge roller, said filter medium comprising a web of parallel, unidirectional, contiguous, plastic filaments, each filament consisting of a resilient, deformable, circumferentially slotted plastic strand.

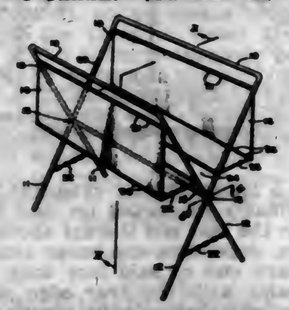
2,652,929
DEVICE FOR HANDLING OF WET STICKY PASTES
Fridtjof Aagaard, Rahway, N. J., and Howard G. Weiss, Marietta, Ohio, assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application March 20, 1951, Serial No. 216,516
3 Claims. (Cl. 210—391)

1. A take-off knife for a continuous filter comprising in combination a hollow knife head, a knife edge which is detachably mounted thereon, a porous layer substantially covering the upper surface of the head back of the knife edge and means for supplying fluid under pressure to said hollow head, said fluid moving in the direc-



tion from the hollow head outwardly through the porous layer, the pores of the porous layer being sufficiently fine so that the fluid flows therethrough to form a very thin continuous fluid film on the surface thereof.

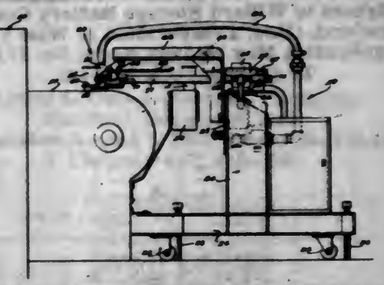
2,652,930
COLLAPSIBLE RACK
Sheldon B. Christensen, Salt Lake City, Utah
Application November 3, 1947, Serial No. 783,643
5 Claims. (Cl. 211—50)



2. A collapsible rack including a pair of inverted U-shaped members pivoted together intermediate their extremities, a receptacle including side members pivotally carried by said U-shaped members and bottom members hingedly connected to said side members, the said bottom members being spaced apart and having their opposing ends slidably connected with slots provided in the inner surfaces of said U-shaped members.

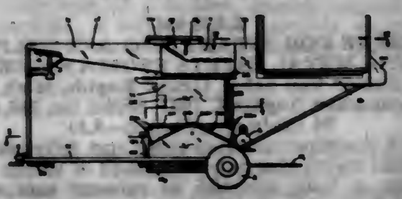
2,652,931
ARTICLE HANDLING APPARATUS
Tom Richard Hughes, Ingleweed, Calif., assignor to Owens-Illinois Glass Company, a corporation of Ohio
Application June 26, 1951, Serial No. 233,573
3 Claims. (Cl. 214—1)

1. Article transferring apparatus comprising a carriage, a reversible motor, means operatively connecting the motor to the carriage, means for reversing the motor in order to reciprocate the carriage, said carriage comprising a manifold provided with a series of openings therein, a series of suction cups made of resilient material mounted on the manifold over said openings, means for applying a vacuum to the manifold, a solenoid valve controlling said means for applying a vacuum to the manifold, switches having a stationary mounting, one said switch being connected in circuit with the solenoid of said valve in such a manner that when the switch is actuated the valve is operated to apply a vacuum to said manifold, the other switch being connected in circuit with the said solenoid in such a manner that when the latter switch is actuated the solenoid valve is operated to cut off the vacuum to said manifold, cams individual to said switches and mounted on the carriage in position to actuate the respective switches as the carriage is reciprocated, means for cutting the power to said



motor before the carriage has reached the end of its travel in either direction thereby permitting the carriage to move to the end of its travel by its momentum, said means for cutting the power to said motor comprising a double acting limit switch mounted separately from the carriage, cams on the carriage in positions to operate the limit switch in opposite directions respectively as the carriage approaches the end of its travel in opposite directions, and time delay relays actuated by the limit switch, each said relay controlling the operation of said motor in one direction only, each said relay being adjusted so that the operation of the motor is delayed until the carriage has reached the end of its travel in one direction.

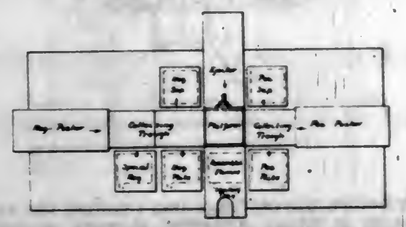
2,652,932
MACHINE FOR LOADING BUNDLES OF TOBACCO LEAVES ONTO STICKS
Kenneth R. Funnell, Blenheim, Marlborough, New Zealand, assignor to Funnell's Inventions Limited, Blenheim, Marlborough, New Zealand
Application September 7, 1948, Serial No. 47,988
In New Zealand July 30, 1946
24 Claims. (Cl. 214—6.5)



1. A machine for loading bundles of stalked tobacco leaves onto sticks, comprising a succession of readily accessible gripping means for temporarily holding the bundles inverted by the stalks to be manually attached thereto means for automatically progressively advancing the stick to which the bundles are being loaded, means for automatically successively advancing the gripping means and attached bundles to two alternate tying positions in close proximity to opposite sides of the stick in timed relation to the

advance of the stick, tying means for automatically tying each bundle of leaves in turn after it reaches its tying position to a string previously secured to the stick, and means to automatically release each bundle from the gripping means after it is tied so that when loading is completed and the string is secured to the stick and the stick is removed the bundles are securely suspended by the string from the stick.

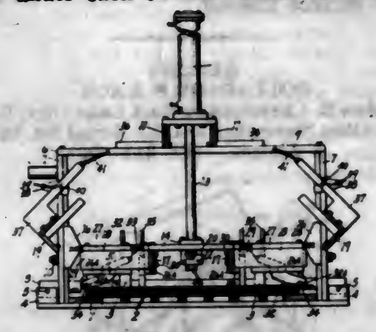
2,652,933
ASSEMBLING APPARATUS
Alfred R. Willard, East Cleveland, Carl R. Glasener, Cleveland, Fred C. Haak, Jr., Euclid, and Charles A. Young, Cleveland Heights, Ohio, assignors to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application May 13, 1948, Serial No. 27,808
15 Claims. (Cl. 214—6)



1. An apparatus, for assembling storage battery elements from battery plates and plate separators, comprising a single non-rotatable vertically movable platform, separate magazines disposed at one side of said platform and adapted to respectively contain supplies of negative battery plates and plate separators, separate magazines disposed on another side of said platform and adapted to respectively contain supplies of positive battery plates and plate separators, means to feed a predetermined number of said plates and separators one at a time from said magazines and to stack all of the fed plates and separators upon said platform in a predetermined order, means to vertically move said platform in timed relationship with the stacking of the plates and separators thereon, means to remove the stacked plates and separators as a unit from said platform after the said predetermined number of plates and separators have been stacked thereon, and control means for effecting automatic operation of said feeding and removing means in a predetermined order.

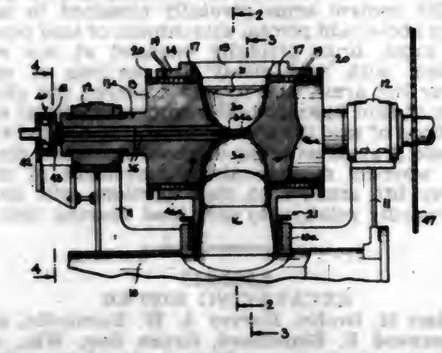
2,652,934
MACHINE FOR SEPARATING AND DELIVERING METAL SHEETS FROM A STACK
Robert Van Schie, Grand Rapids, Mich.
Application August 6, 1951, Serial No. 240,488
24 Claims. (Cl. 214—8.5)

1. A machine for separating and delivering individual metal sheets from a stack of sheets comprising, a base adapted to support said stack, guides laterally adjustably mounted on said base for retaining the sides of said stack, a framework supported from the edges of said base and extending thereabove and thereover, one side of said framework being pivotally connected to said base whereby said framework may be tilted away from said base for loading a stack on said base, a lifting head vertically reciprocably mounted in said framework and guided in its motion by engagement with the upright corners thereof, means including a fluid actuated piston mounted on top of said framework and connected to reciprocate said head, a plurality of gripping jaws spaced along all sides of said head and inwardly and outwardly adjustably connected to said head, said jaws having inwardly extending lever arms pivotally connected intermediate of their ends to said head whereby lowering motion of said head will present said gripping jaws to the top sheet of said stack and slide the jaws outwardly into gripping engagement with the edges of the top sheet of the stack, said jaws opening inwardly and downwardly of said head and projecting below their lever arms by a distance approximately equal to the thickness of said sheets, vertically reciprocable release pins carried by said head and engageable with said levers inwardly of their pivots, springs urging the inner ends of said levers upwardly, stop plates on the top of said framework engageable with the upper ends of said pins at the upper limit of travel of said head to move said jaws outwardly to sheet releasing position, parallel supporting rails pivotally mounted along opposite sides of said framework and having inwardly directed sheet supporting projections on their lower ends weight-biased to swing outwardly from the sides of said stack, means connected to said rails including inwardly projecting arms rigidly extending from said rails above their pivots and engageable with said head for pivoting said rails inwardly under each elevated sheet as said head



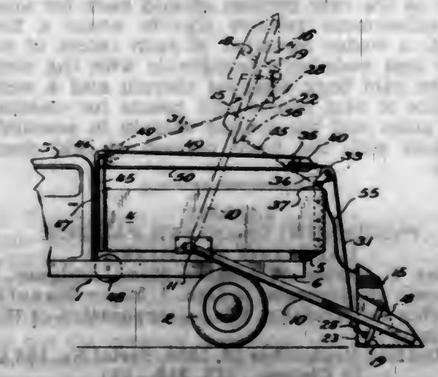
is elevated, a longitudinally extensive lazy tong structure slidably supported on said head and connected to the rear end thereof above the level of said jaws, depending discharge pins secured to the forward end of said lazy tong structure and engageable with the rear edge of a sheet supported on said support rails, means including a fluid operated piston carried by said head and connected to a rearward portion of said lazy tong structure to extend said structure forwardly, a horizontally extending and reciprocable separator bar mounted on said base outwardly from said stack and having a pointed inner edge spaced above the lower limit of travel of said jaws, spring means biasing said separator bar inwardly toward said stack, a retracting finger carried by said head and cammingly engageable with said separator bar to retract said separator bar on downward movement of said head and said finger, a latch operable to hold said bar retracted, a latch release lever projecting over said stack and engageable with each elevated sheet to release said latch in timed relationship with the upward movement of said head and a sheet carried thereby whereby said separator bar penetrates between the top sheet and any sub-adjacent sheet adhering thereto, and a sheet tensioning pin vertically and yieldably mounted on said head within the outline of said gripping jaws and projecting downwardly below the level of said jaws to apply downward flexing stress to plates supported in said jaws.

2,652,935
ROTARY FEEDING DEVICE
Hjalmar S. Messing, New York, N. Y., assignor to American Defibrator Inc., New York, N. Y., a corporation of New York
Application April 21, 1949, Serial No. 88,733
7 Claims. (Cl. 214—17)



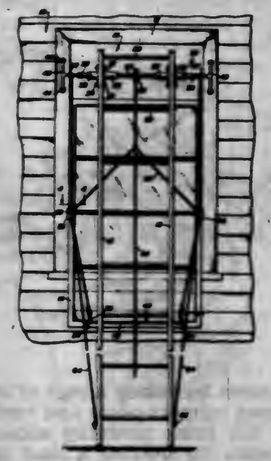
7. In combination with a pressure vessel in a closed pressure system, a feeding device for introducing material into said vessel while maintaining a pressure seal thereon, said device including a housing having an intake opening and a discharge conduit and a rotatable member having at least one pocket for receiving and discharging material into said vessel, the pressure vessel beng provided with an inlet conduit within which the discharge conduit of the housing is fitted and within which the said discharge conduit is axially adjustable, sealing means between said discharge conduit and inlet conduit, spring means connecting the housing and the pressure vessel to permit of movement of the housing relatively to the pressure vessel and to permit of telescoping movement of the discharge conduit within the inlet conduit, said pressure vessel having bearing supports for mounting the rotatable member on a fixed axis of rotation independently of the housing, whereby to accommodate thermal expansion of said vessel and to minimize wear between said rotatable member and said housing.

2,652,936
SELF-LOADING TRUCK
Alva C. Hensley, Marea, Ill., assignor to James D. Whitson, Decatur, Ill., as trustee
Application June 22, 1948, Serial No. 34,523
8 Claims. (Cl. 214—78)



1. A loading device for vehicles comprising a bucket, side arms pivoted to the vehicle and on which arms the bucket is mounted, said bucket including a shovel portion and a load back stop portion, at least one of which said portions is pivoted with respect to the arms for unloading the bucket, means for restraining pivotal movement of said one portion with respect to the arms and urging the said one portion from its unloading position, said means comprising a hoisting cord for swinging the arms and hoisting the bucket, and means for forcing pivotal movement of said one portion with respect to the arms, said second named means comprising a cord secured to the pivoted portion of the bucket and to the vehicle at a point spaced from the pivot center of said arms and drawn taut by the swinging of said arms.

2,652,937
WINDOW CHANGER
Homer L. Cutler, Newport Township, Marshall County, S. Dak.
Application August 7, 1950, Serial No. 178,032
5 Claims. (Cl. 214—95)



1. A portable ladder hoist comprising a support frame for attaching the upper end of a ladder to a vertical support surface, a cradle for supporting the lower edge of a window sash or the like for raising the same, a sling connected to said cradle, lifting means connected to said sling and to said support frame, said support frame having brackets each detachably secured to the side rail of a ladder, sleeves carried by said brackets, a support rod slidably received in said sleeve, support means slidably mounted on said support rod.

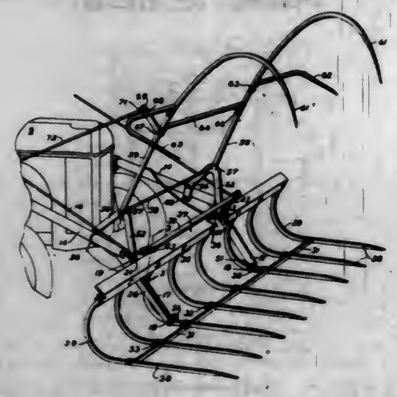
2,652,938
MECHANISM TO TRANSFER AUTOMOBILES
John N. Murphy, Springfield, Ill.
Application January 16, 1947, Serial No. 722,421
2 Claims. (Cl. 214—95)



1. In a storage building of the character described, an elevator cage and an automobile pusher carried by said elevator cage, and com-

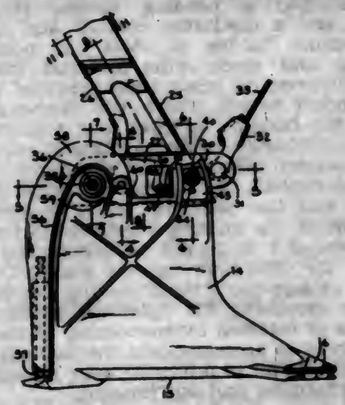
prising a channel member, a rack bar guided to longitudinally move therein, pinions at each end of the channel member meshing with said rack bar, motor driven means to move said pinions in either direction, a rod extending lengthwise of the rack bar and rotatably mounted thereon, arms secured to said rod at each end thereof and arranged to be rotated therewith to engage with a bumper of an automobile, and manual and motor operated means operatively connected to the rod for partially rotating said rod in either direction, said manual and mechanical means adapted to permit rotation of said arms either by said manual means or said motor means.

2,652,939
TRACTOR MOUNTED GRAB DEVICE FOR HAY AND THE LIKE
Marble E. Burch, Hayfork, Calif., assignor of one-half to Ferrest C. Shaklee, Sr., Oakland, Calif.
Application May 15, 1950, Serial No. 162,128
1 Claim. (Cl. 214—140)



In mechanism including a pair of substantially vertical spaced support posts and vertically movable power lift arms pivotally attached to the respective posts for moving a load mass, a load bearing unit engageable under said load mass comprising a plurality of relatively parallel interconnected bar members having substantially straight frontally extending tooth elements and upwardly curved rearwardly extending back elements, said load bearing unit being pivotally engaged between the tooth and back elements thereof with distal end portions of said power lift arms for movement between load bearing and load releasing positions, a header bar carried by upper ends of said back elements and extending transversely across said load bearing unit, and generally normal to the longitudinal axes of said power lift arms an oscillable latch shaft carried by said power lift arms and substantially paralleling said header bar, latch lugs carried by said latch shaft and engageable with said header bar for releasably retaining said load bearing unit in load bearing position, said latch lugs being operable in both rotational directions of said latch shaft to release said header bar and permit movement of the latter from load bearing to load releasing positions, oppositely acting spring means operatively interposed between said latch shaft and said power lift arms for resisting rotational movement of said latch shaft in both directions, relatively spaced grab arms pivotally carried by said power lift arms intermediate said posts and said distal end portions of said power lift arms with the axis of rotation of said grab arms being disposed vertically above and generally parallel to the axis of said load bearing unit, said grab arms having claw portions extending over said load bearing unit, said grab arms having forwardly and laterally extending claw portions engageable with dispersed portions of said load mass for retaining the latter on said load bearing unit, a pair of lift control arms pivotally attached to said posts above said pivotal attachment of said power lift arms, links pivotally engaged at one end thereof with said distal end portions of said power lift arms, and means adjacent the other ends of said links pivotally secured to distal end portions of said lift control arms, the pivotal axis of said grab arms being disposed in such a manner whereby during raising movement of said power lift arms, said claw portions will move rearwardly relative to said load bearing unit.

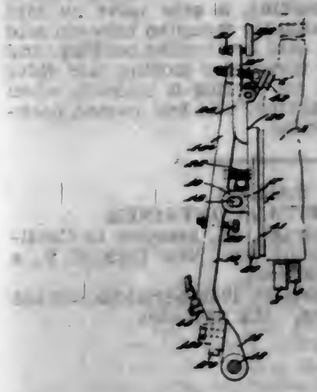
2,652,940
EXCAVATING DIPPER
Anders H. Brolin, Harvey A. W. Kamheitz, and Bernard E. Blanchard, Green Bay, Wis., assignors to Northwest Engineering Corporation, Green Bay, Wis., a corporation of Wisconsin
Application August 24, 1950, Serial No. 181,206
8 Claims. (Cl. 214—145)



1. In a dipper for excavators and the like, the combination of a dipper handle, a part of which is formed to provide a dipper back, a dipper body having sides and a front, said sides at their front having recesses whose sides are formed as wedge surfaces, said back having side portions provided with wedge lugs projecting into said recesses, means for connecting the sides of said dipper body to the rear portion of said back for angular adjustment relative thereto about a fixed point, a wedge mounted in each recess of said sides and wedgingly engageable with the wedge lug on said back disposed therein and a wedge surface of said recess, and means for clamping said sides and the wedges therein in assembled relation with the front portion of said dipper back.

2,652,941
PNEUMATIC TRANSFER PAD FOR LABELING MACHINES
Sidney T. Carter, Worcester, Mass., assignor, by mesne assignments, to Geo. J. Meyer Manufacturing Co., Cudahy, Wis., a corporation of Wisconsin
Application September 23, 1950, Serial No. 186,449
19 Claims. (Cl. 216—13)

1. In combination in a labeling machine wherein a gum-coated picker removes a plurality of labels simultaneously from a supply and carries them to a transfer station where the several labels are disposed in the same plane, means for supporting an article to be labeled, transfer means comprising a rock arm, a transfer pad carrier pivotally connected to the rock arm, an auxiliary transfer pad carrier pivotally connected



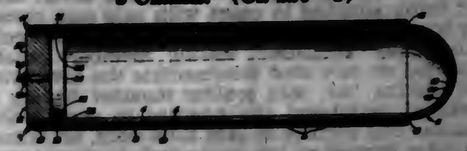
to the first-named pad carrier, spring means urging each pad carrier to rock about its pivotal axis, means operative temporarily to hold both pad carriers so that the label-contacting faces of their respective pads are in alignment and in transfer position, and means for moving the rock arm to move the pads toward the article to be labeled.

2,652,942
METHOD OF AND APPARATUS FOR ATTACHING CLINCH NUTS TO SHEET METAL MEMBERS
Louis Muchy, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 2, 1949, Serial No. 102,328
13 Claims. (Cl. 218—3)



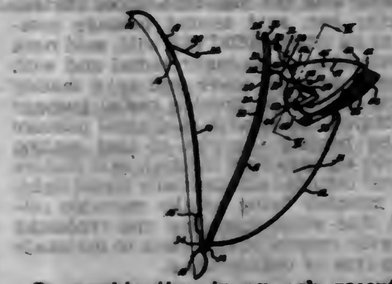
1. The method of attaching a clinch nut having a non-circular body to a sheet of material, which comprises holding the nut on a punch member, supporting the sheet on a die member, moving the punch member toward the sheet whereby said body of the nut is driven through the sheet into the die member retracting and rotating the die member, and thereafter moving the die member into engagement with said nut to stake a portion of the body of the nut farthest from the axis of said nut.

2,652,943
HIGH-PRESSURE CONTAINER HAVING LAMINATED WALLS
Sylvester Vet Williams, Titusville, Pa.
Application January 9, 1947, Serial No. 721,634
3 Claims. (Cl. 220—3)



1. A high pressure vessel comprising a metal inner container adapted to contain a fluid under high pressure, and at least one metal reenforcing container enclosing the fluid container in a substantially nesting relation to provide a laminated structure for the vessel, the metal of said containers being related for assembly by their stress-strain characteristics so that when under load and before the metal of each successive container towards the outside reaches its plastic deformation point the metal of the next preceding inner container has exceeded its elastic range of deformation and entered its plastic range of deformation whereby the working load from the high internal fluid pressure is more effectively transmitted to the outer layer.

2,652,944
ASH RECEIVER
John Visser, Grand Rapids, Mich., assignor to F. L. Jacobs Co., Detroit, Mich., a corporation of Michigan
Application July 29, 1947, Serial No. 764,337
1 Claim. (Cl. 220—18)

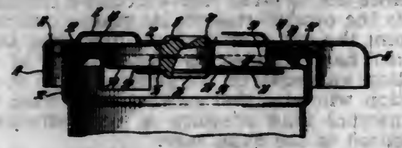


In combination in an ash receptacle of the character described, mounting structure having a contour approximating that of the surface to which said receiver is to be secured, a receptacle structure including a back panel, said back panel having an opening adjacent to the top thereof, means adjacent the bottom of the receptacle structure for effecting preliminary engagement with the mounting structure, a latch arm extending from the mounting structure and projectable through said aperture in the finally assembled relationship of the receptacle structure with the mounting structure, and a latch member carried by the back panel and having a mounting leg secured to the rear of the back panel and a latch head projecting through said aperture and engageable with said latch arm.

2,652,945
TANK CLOSURE
Nelson Walker, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 11, 1950, Serial No. 143,746
2 Claims. (Cl. 220—40)

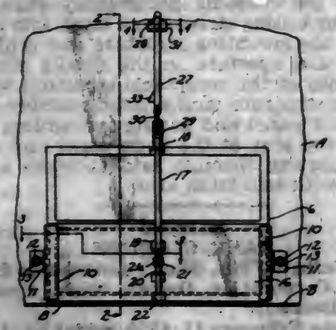
2. A tank closure adapted to close the neck of a tank to be filled with fluid, said neck having an

annular end surface and a cam member mounted adjacent said surface, said closure comprising a cover, a stud member rigidly secured to and depending centrally from said cover, a locking bar rigidly secured to said stud in spaced parallel relation with the inner surface of said cover, said bar being adapted to coact with said cam member to removably secure said closure to said neck, a centrally apertured sealing member loosely mounted on said stud intermediate the cover and the locking bar, said sealing member having a gasketed peripheral rim adapted to engage the annular end surface of said tank neck, an annular ridge formed on the upper surface of said rim, the inner surface of said cover engaging said rim along said ridge to force said gasketed rim into engagement with said end surface when said closure is mounted upon said neck, an axially disposed annular passage defined by the centrally apertured portion of said sealing member and the radially adjacent portion of said stud, said



sealing member being depressed radially inwardly of said rim to form a liquid catch basin which communicates with said axial passage, said locking bar being adapted to partially overlie the lower surface of said sealing member so as to shield said axial passage from the fluid within said tank, a second annular passage normal to said axial passage and defined by the lower surface of said sealing member and the adjacent upper surface of said locking bar, said second passage communicating at its outer radial end with said neck and communicating at its inner radial end with said axial passage, said cover and said sealing member being formed to provide radial passage means in communication with said axial passage and extending beyond the rim of said sealing means whereby air may flow through said closure while the latter remains substantially liquid tight, said sealing member being axially movable relative to said stud when removing and replacing said closure with respect to said neck to maintain said passages free of obstructions.

2,652,946
CLEANOUT GATE VALVE
Guy M. Beatty, Bakersfield, Calif.
Application March 20, 1950, Serial No. 150,754
10 Claims. (Cl. 220—41)



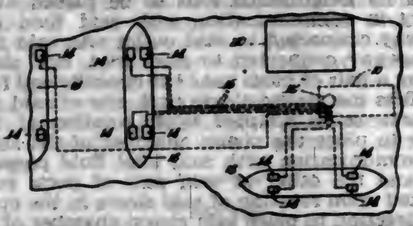
1. The combination with the wall of a tank, vat or the like having an opening therethrough for cleanout purposes and a ring welded around the edge of said opening, of a valve assembly comprising a frame having on one side a groove to receive said ring and packing in said groove to be compressed by said ring, means for securing said frame to said wall, a packing on the other side of said frame around said opening, guide brackets on said frame extending beyond said last named packing, a gate valve on said frame loosely and slidably mounted between said guide brackets and said last named packing, and manually operable means for moving said valve on said frame and for forcing it laterally when in closed position against said last named packing to seal said opening.

2,652,947
SHEET METAL CONTAINER
John Henchert, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application September 26, 1946, Serial No. 699,458
2 Claims. (Cl. 220—66)



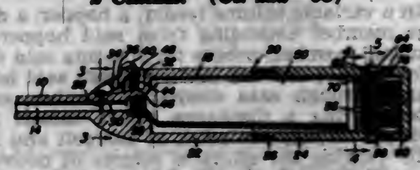
1. A sheet metal container comprising a body portion having an outwardly turned flange at the upper edge thereof, a drawn metal collar extending into the open end of said body and having a flange rolled outwardly into a seam with the flange on the body, the inner face of said collar being dimensioned so as to provide a friction seat for a closure plug, the lower portion of said collar being rolled inwardly, upwardly and outwardly into a resilient hollow bead with its free edge close to said inner face and slightly outwardly and downwardly turned, a friction plug closure member having a depression surrounded by a substantially vertical wall conforming to and frictionally engaging said inner face of the collar, the lower portion of the vertical wall of the closure member being offset inwardly to receive the hollow bead at the lower end of the collar and shaped to provide an annular stop shoulder disposed for overlying the bead adjacent the free edge thereof and an upwardly and inwardly projected pocket for containing a sealing material, sealing material in said pocket in position for opposing the collar bead and said offset also being extended below the bead on the lower portion of the collar and having outwardly and upwardly directed indents therein at circumferentially spaced intervals for engaging outwardly and upwardly against said resilient hollow bead and securing the closure member to the container with said annular stop shoulder pressed tightly against said collar bead and with the sealing material pressed in tight sealing contact against said resilient collar bead.

2,652,948
CONTROL SYSTEM FOR PLURALITY OF LIQUID DISPENSING DEVICES
James Ballard Moore, Chicago, and Richard R. Trexler, Evanston, Ill., assignors to James Ballard Moore, Chicago, Ill., as trustee
Application March 8, 1947, Serial No. 733,243
31 Claims. (Cl. 222—26)



1. A liquid dispensing apparatus comprising a pump adapted to be connected to a source of liquid supply, means for driving the pump, a plurality of dispensing outlets, conduits interconnecting the pump with said plurality of dispensing outlets, control means individually associated with each of the dispensing outlets, each of said control means being operative to control the operation of the pump driving means, and means controlled by the dispensing of the liquid through a predetermined number of said outlets for inhibiting the dispensing of liquid through additional outlets.

2,652,949
DISPENSER WITH SPRING PRESSED FOLLOWER
William K. Martin, Cliff, N. Mex., assignor of one-third to Fred W. Foster, Cliff, N. Mex.
Application October 27, 1949, Serial No. 123,242
2 Claims. (Cl. 222—95)



1. In a dental device which includes an elongated shank with a longitudinal passage in it to deliver tooth paste and a handle fixed to the shank, a spring closed valve carried by said handle adjacent one end thereof and arranged to control said passage, the improvement comprising a first section and a second section constituting said handle, said first section having a bore which opens outwardly through the end thereof, said second section having a bore which is arranged to communicate with the first mentioned bore, means for releasably fastening said sections together, said second section having a closed end wall, said second section having an aperture in the side wall thereof adjacent to said closed end wall, a spring loaded keeper mounted pivotally within said aperture, a piston disposed in said bores and adapted to compress a tube in said bores, a spring reacting upon and contacting one surface of said piston and the inside surface of said closed end wall of said second section, said piston having a skirt with an opening therein, and said keeper being removably disposed in the opening in said piston skirt to thereby hold said piston in one position within said section and to thereby hold said spring compressed between said piston and said closed end wall when placing a tube of tooth paste in said bores.

2,652,950
HOLDER AND DISPENSER FOR COLLAPSIBLE TUBES
Frederick A. Major, St. Louis, Mo.
Application October 18, 1950, Serial No. 190,763
4 Claims. (Cl. 222—100)



1. A device for holding a collapsible tube and expelling therefrom the contents thereof in measured amounts, said device comprising a base member, a tube holding means having a portion which embraces the collapsible tube and a pair of leg portions extended from said tube-embracing portion, pivot means for pivoting one of said leg portions of said tube holding means to said base member so as to support said tube holding means for pivotal movement with respect to said base member, the other of said legs contacting with said base member for maintaining said tube holding means in its normal position with respect thereto, a shaft supported for rotation by said base member, and having a slot formed longitudinally thereof which receives a portion of the tube so that said tube may be wound on said shaft on rotation of said shaft, and means for subjecting said shaft to a predetermined degree of rotation on each operation of said means so as to expel a predetermined amount of the contents of the tube on each such operation.

2,652,951
SALT AND PEPPER SHAKER
Augustus Esposito, Irvington, and Anthony Galantino, Orange, N. J.
Application March 13, 1951, Serial No. 215,283
2 Claims. (Cl. 222—142.1)



1. A combination salt and pepper shaker comprising a plastic one-piece container of pyramidal shape having side walls and a top wall provided two sets of dispensing holes, a central partition having integral apertured shelf members parallel to said top extending in opposite directions to form individual slideways, each shelf member having an integral depending and inclined section forming a housing, a removable door on opposite side walls for providing access to said housings, a pair of flat valve plates slidable in said slideways and having openings therein, dependent tabs in said housings integral with said valve plates, guide pins formed integral with said dependent section and having coiled springs to retract the valve plates, and push-buttons mounted in said doors respectively and operated individually to move said valve plates to align said holes and apertures respectively.

2,652,953
LIQUID SOAP DISPENSER
Douglas T. Mowbray, Waterloo, Iowa
Application January 26, 1952, Serial No. 268,280
15 Claims. (Cl. 222—189)



1. In a liquid soap dispenser, a base member, a head section secured to said base member, said head section provided with an opening therethrough, a cylindrical gasket in said opening, said gasket provided with a center opening concentrical with said head section opening, an air passageway through said gasket parallel to and spaced from said opening therein, a discharge conduit swivelly secured to said head section so that a portion thereof extends into said head section opening and into the center opening of said gasket, a liquid container capable of being removably attached to and solely supported by said head section, a tube member extending from the inside bottom of said container upwardly to the top thereof, a one-way valve in the top of said tube member, said one-way valve in communication with the center opening in said gasket, an air opening in said container in communication with the air passageway in said gasket, and a conduit in said base member communicating at one end with the air passageway in said gasket and at its other end designed to communicate with a source of forced air.

2,652,953
DEVICE FOR MEASURING AND DISCHARGING FLUIDS DELIVERED THERETO UNDER PRESSURE
David Douglas Gray, Mosman Park, Western Australia, Australia
Application September 8, 1949, Serial No. 114,522
In Australia June 17, 1949
3 Claims. (Cl. 222—259)



1. A device for measuring and dispensing fluids supplied thereto under pressure which comprises a cylindrical body having a rotatable hollow sleeve fitted therein, said cylindrical body being closed at its opposite ends, a piston reciprocable in said sleeve under the influence of said fluid pressure, a manifold extending longitudinally of said cylindrical body, a fluid passageway in said manifold having port openings contiguous with said sleeve and which passageway is in communication with a discharge outlet, a second fluid passageway in said manifold having port openings contiguous wth said sleeve and which passageway is in communication with an inlet opening, said sleeve having a port near one end which is adapted upon rotation of the sleeve about its longitudinal axis to be placed alternately in communication with said fluid passageway connected to said outlet and said fluid passageway connected to said inlet, said sleeve having a pair of ports near the opposite end from said first mentioned sleeve port, one of said pair of ports being adapted upon rotation of said sleeve to place the piston chamber of the sleeve in communication with said inlet fluid passageway and the other of said pair of ports being adapted upon rotation of said sleeve in the opposite direction to place said piston chamber of the sleeve in communication with said outlet fluid passageway, and means for rotating said sleeve.

2,652,954
VARIABLE PITCH FEEDER
Leon J. Nowak, Jr., Chicago, Ill., assignor to B. F. Gump Co., Chicago, Ill., a corporation of Illinois
Application October 5, 1948, Serial No. 52,923
13 Claims. (Cl. 222—282)



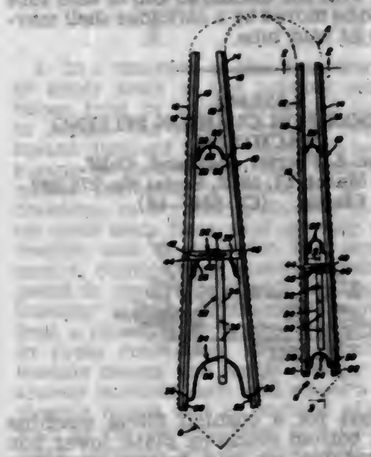
1. In a variable volume feeder, a hopper, a discharge member extending from said hopper, a coil in said member, means for rotating said coil and for thereby moving material from said hopper and through said discharge member, said member having a discharge outlet, means for adjustably varying the pitch of the coil and for thereby varying the effective volume of delivery of the coil through the discharge member, and a core member surrounded by said coil and movable into and out of said discharge member.

2,652,955
CALK GUN AND CARTRIDGE ADAPTER
Samuel Crewe, East Cleveland, Ohio, assignor to Crewe Manufacturing & Tool Co., Cleveland, Ohio
Application February 24, 1948, Serial No. 10,423
1 Claim. (Cl. 222—327)



In combination with a bulk calk gun of the type having a cup adapted to retain a disposable cartridge and a plunger operating device operable through said cup, a cartridge harness, comprising parallel rods adapted to retain a disposable cartridge of calk material in said cup, comprising, a substantially U-shaped cup-yoke engageable with the rear face of said cup and adapted to straddle the operating device, the said cup-yoke having perforated ear portions extending beyond either side of said cup; a substantially U-shaped nozzle-yoke spaced from said cup-yoke and connected thereto by said parallel rods passing through said cup-yoke ear perforations, the said nozzle-yoke being adapted to straddle the nozzle of said disposable cartridge and bear against the front end of said cartridge, and means on the ends of said rods for adjustably spacing the said cup and nozzle yokes for the purpose of retaining the said disposable cartridge therebetween and in anchored attachment to said bulk calk gun cup and plunger operating means.

2,652,956
STRETCHING AND SHAPING FORM FOR NECKTIES
William L. Rieck, Kankakee, Ill.
Application April 18, 1952, Serial No. 282,974
2 Claims. (Cl. 223—65)



1. A readily insertable and withdrawable press for a four-in-hand necktie comprising a form embodying a pair of coplanar spring biased stretcher bars, and an L-shaped arm, having a short limb secured to an intermediate portion of one bar and extending at right angles from said one bar, a long limb situated in spaced relation between said bars and provided with hold-down pins for a flap, and a complemental link secured to the intermediate portion of the other bar and extending at right angles therefrom, said link having a slotted end portion overlapping and adjustably fastened to said short limb, said bars being linearly straight and rigid, the outwardly disposed longitudinal edges being of knife-like form.

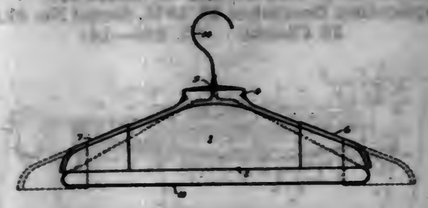
2,652,957
NONSLIP GARMENT HANGER
Ruth Wolf, New York, N. Y.
Application November 29, 1950, Serial No. 198,158
6 Claims. (Cl. 223—93)

1. A garment hanger comprising a hanger bar, suspending means therefor, and a cushioning and friction-establishing means sleeving said bar and continuously extending along said bar substantially from end to end thereof, said means incorporating a cup-shaped outer structure having walls of highly flexible substantially inelastic material, and, within said outer structure, a stuffing of cushioning material, said stuffing including an elastically compressible material having a non-smooth superficies, said cup-shaped outer structure at its top having two open mouths with each such mouth above and elongated along



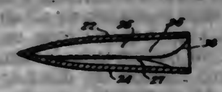
the length of an end portion of said bar, said stuffing being arranged so that portions of its said superficies face upward and each such portion is extended across a different one of said mouths.

2,652,958
ADJUSTABLE GARMENT HANGER
Ralph E. Alverd, Fairfield, Iowa
Application December 30, 1950, Serial No. 203,894
2 Claims. (Cl. 223—94)



1. A garment hanger assembly comprising a hollow shell-like body member open at the bottom thereof and having side walls, a central neck portion, and oppositely extending shoulder-engaging portions, each of said shoulder-engaging portions being inclined downwardly from said neck portion to the respective opposite ends of said body member, a part of each of said shoulder-engaging portions having a top wall spanning said side walls, a pair of hollow end pieces fitting closely over the ends of said body member and having top and side walls, a button extending downwardly from the inner surface of the top wall of each end piece, said top wall of said body member being provided with a plurality of spaced button-receiving apertures adjacent each end of said body member for varying the position of each of said end pieces with respect to said body member and for positively securing said end pieces to said ends of said body member, the aperture farthest from said neck portion at each end of said body member being so positioned that each respective end piece projects outwardly beyond an end of said body member when the button of said end piece engages one of said farthest apertures.

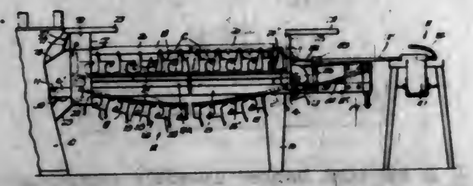
2,652,959
WEDGE TYPE CURTAIN ROD GUIDE
Ignas B. Kubiliunas, Boston, Mass.
Application July 1, 1950, Serial No. 171,713
2 Claims. (Cl. 223—105)



1. A curtain rod guide for a curtain rod of the channeling type having rolled edges which ex-

tend into abutting relationship with one another, said guide comprising a tubular body formed with an opening for receiving the channel type curtain rod guide therein, the tubular member having a base consisting of a relatively thin, flexible wall portion, the flexible wall portion being adapted to receive and support the central body portion of the said central type rod when located in the tubular opening of the guide, a rigid rib formed centrally in an opposite continuous wall portion of the guide, the rib presenting a longitudinally extending bearing member, said bearing member being V-shaped along its longitudinal axis with its point extending toward the said opening and having a V-shaped cross-section defining an edge disposed toward the flexible wall portion, said edge being curved from a point on the continuous wall adjacent the opening to a point intermediate the flexible wall portion and the continuous wall portion.

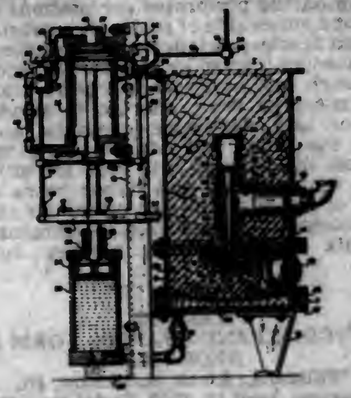
2,652,960
CARTON HANDLING AND LOADING APPARATUS
Richard J. Fahey, Evanston, and Martin Burger, Morris, Ill., assignors to General Package Corporation, a corporation of Delaware
Application December 23, 1948, Serial No. 67,046
18 Claims. (Cl. 226—14)



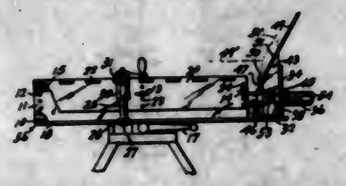
1. Carton handling and loading apparatus comprising means for supplying erected, empty, hinged-cover type cartons, a frame, a horizontally extending, endless conveyor traveling on said frame in receiving relation to said carton supply means, means for continuously advancing said conveyor, said conveyor having a plurality of carton supports arranged thereon to travel therewith in immediate front-to-rear adjacency with reference to the direction of travel of the conveyor and receiving erected cartons from said supply means for transport on a horizontal reach of the conveyor, means movable relative to said frame to downwardly deflect the covers of said cartons, while they are being conveyor-transported, toward a retracted position between successive cartons on said respective supports, and means in direct receiving relation to said conveyor to receive therefrom cartons loaded during travel thereon.

2,652,961
CARTRIDGE FILLING APPARATUS
William A. Sherbondy, Shaker Heights, Ohio
Application April 30, 1949, Serial No. 90,662
9 Claims. (Cl. 226—23)

2. In apparatus of the character described, a hopper for caulking compound; means forming a compartment connected with the hopper by a passageway, said means including a movable wall; a check valve in said passageway adapted to admit compound from said hopper into said compartment; a compound outlet tube leading from said compartment and having its discharge end portion adapted to telescopingly receive a cartridge shell; power means for moving said wall to change the volume of said compartment; and means for controlling said power means and comprising, a member having a part adjacent to said tube and adapted to be moved by a cartridge shell telescoped over said tube, and a member spaced from and alignable with the discharge end of said tube and adapted to be moved by a cartridge shell moving outwardly of said tube.

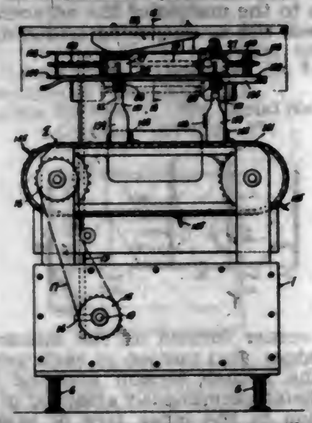


2,652,962
FILLER BOX FOR CUSHION FILLING MACHINES
Herman A. Ferrier, Oakland, Calif.
Application March 17, 1952, Serial No. 276,907
5 Claims. (Cl. 226—46)



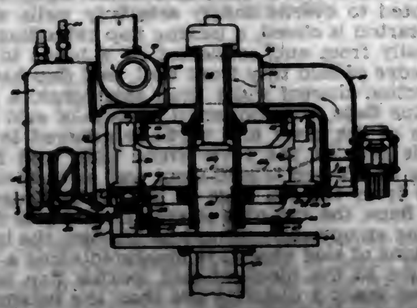
1. A filler box for a cushion filling machine comprising; a bottom spanning plate, lower box members adjustable on said bottom spanning plate and having each a lower side wall and a bottom member supported on said spanning plate, upper box members each including an upper side wall and a cover member hinged thereto, stepped adjusting and securing means cooperative between said lower and upper side walls for precise adjustment and securing of the side walls together for precise adjustment of the depth of the filler box, and a top spanning plate for cooperation with said cover members to provide reinforcement and to close the gap between the cover members when the box is adjusted to excessive width, and a hinged support for one end of said top spanning plate and including stepped adjusting and securing means for said hinged support and having steps conforming to those cooperative between the lower and upper side walls for equal adjustments, and means cooperative between said lower box members for adjusting the width of the filler box; said hinged support comprising a bearing for the pusher rod of the cushion filling machine and having a vertical wall including vertical guiding means, and a vertical series of passages formed therein and conforming in spacing and relative location with said stepped adjusting and securing means, a hinge bracket vertically slidable in said guiding means and including a passage formed therein and a bolt for said passage and said passages for adjustment and securing of said hinge bracket, and a nut for said bolt.

2,652,963
AUTOMATIC BOTTLE SEALING
Jack Lee Pomeroy, Madison, Wis., assignor to Gisholt Machine Company, Madison, Wis., a corporation of Wisconsin
Application July 3, 1946, Serial No. 681,290
27 Claims. (Cl. 226—90)



1. In a machine of the class described adapted to apply seals of the tubular regenerated cellulose type to bottle tops and the like, means to supply flat folded seals in rapid succession, means disposed in correlaton to said first named means to successively open said seals, transfer means including a plurality of spaced heads traveling in a closed path and disposed to pick up open seals from said opening means in succession and to transfer the same to loading means, continuously moving loading means disposed to receive said seals on the fly from said transfer means, continuously moving means to feed a plurality of bottles through the machine in rapid succession, means to coordinate said loading means and bottle feeding means to separately position each seal above a corresponding moving bottle and in vertical alignment therewith as the bottles travel in a continuous movement through the machine, and means carried by said loading means and adapted to strip the seals downwardly therefrom and thereby position the seals on the corresponding bottles in succession.

2,652,964
METHOD AND APPARATUS FOR SEALING CONTAINERS
Olav Bjoring, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a corporation of Ohio
Application November 30, 1950, Serial No. 198,462
19 Claims. (Cl. 226—82)



18. The method of utilizing waste steam from a container sealing apparatus wherein steam is used to displace the air in the containers, which method comprises moving the chucks in a closed horizontal path through a steam zone and causing them to pick up caps and apply them to containers during the movement in said closed horizontal path, pumping the steam from said steam zone and thereby inducing a positive movement of the waste steam in the same direction as said chucks, and bringing the steam into contact with the chucks prior to their picking up the caps and thereby heating said chucks.

2,652,965
LIQUID FILLING VALVE
Leonard McGibbon, San Leandro, Calif., assignor to King Sales & Engineering Co., San Francisco, Calif.
Application December 20, 1948, Serial No. 66,240
3 Claims. (Cl. 226—124)

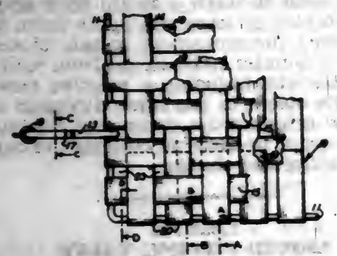


1. In a filling valve, a cylinder structure normally open for admission of liquid at its upper end and having a valve seat at its lower end, a valve and piston structure in said cylinder structure defining a chamber therewith and having a valve at its lower end for cooperation with said valve seat, said valve and piston structure including an intermediate piston portion having a sliding fit within the cylinder structure and an upper portion of reduced size projecting beyond said cylinder structure, an external longitudinal groove extending from end to end of said piston portion and forming a liquid passage, stop means for said valve and piston structure positioned to close said groove in the raised position of said valve and piston structure, a second external groove in said piston portion extending from the lower end thereof and ending short of the upper end thereof, and an internal passage in said upper projecting portion and communicating with said second groove, said second external groove and said internal passage forming an air passage.

2,652,966
TRAMPOLIN
Lawrence V. Griswold, Cedar Rapids, Iowa
Application June 1, 1950, Serial No. 165,541
2 Claims. (Cl. 227—46)

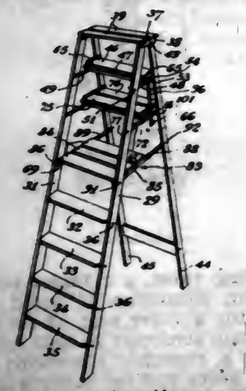
3. In a trampoline and the like construction, a rigid outer support frame, a flexible, stretchable inner support frame having substantial elasticity, a plurality of elastic members for attaching said inner frame to said outer frame, and a web bed comprising a plurality of cross strips, the ends of said strips being looped around said inner frame and being secured to a plurality of outer

cross strips secured transversely to the first-named cross strips, said ends being bonded to



and terminated between adjacent faces of a pair of crossing strips.

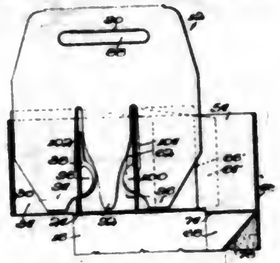
2,652,967
MULTIPLATFORM STEPLADDER
Cecil F. Hansen, Hastings, Mich., assignor to Craft-Belt Company, Hastings, Mich., a corporation of Michigan
Application December 10, 1949, Serial No. 132,298
7 Claims. (Cl. 228—29)



1. A stepladder construction comprising, a pair of frontal stiles, a pair of bracing stiles foldable towards and away from said frontal stiles, a plurality of platform treads each at a different level and disposed adjacent said frontal stiles, said platform treads being comprised of a plurality of tread slats, a pair of angle-metal brace members at each tread level for supporting the ends of said treads as well as for spanning and structurally rigidifying the frontal and brace stiles by being pivotally connected at its ends thereto, and means for supporting certain of the slats of each tread in a pivotally displaceable manner on its related angle-metal brace members comprising formed end pieces traversing the width of said pivotal slats at the ends thereof and having projecting pivot ears integral therewith which ears are pivotally articulated to corresponding ears integrated with said angle-metal brace members.

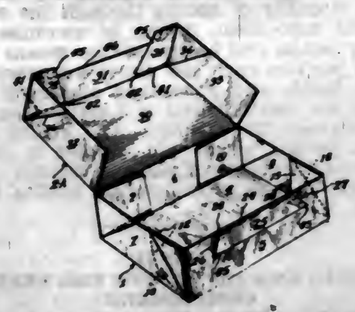
2,652,968
BOTTLE CARRIER
Hubert Velman Belding, Jeffersonville, Ind., assignor to The Bradley & Gilbert Company, Louisville, Ky., a corporation of Kentucky
Application July 2, 1948, Serial No. 36,613
4 Claims. (Cl. 229—28)

1. A collapsible cellular bottle carrier formed from a single blank of sheet material, said carrier comprising a rectangular bottom consisting of two sections foldable into inside face-to-face relation along an intermediate score line, side walls hingedly connected to opposed margins of the bottom, end walls composed of two rectangular sections hingedly connected to end margins, respectively, of said side walls, independent web sections each hinged on one edge to the bottom margin of one end wall section and on a transverse edge to the margin of the adjacent bottom section, each web section being scored diagonally



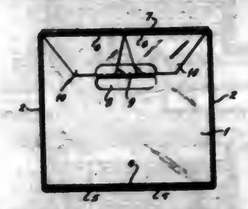
from the corner formed by the intersection of said web edges, that portion of each web section between the bottom section and the diagonal score line being permanently attached in face-to-face relation to the inner face of said bottom section whereby collapsing movement of the bottom and end walls is resisted after erection of the carton, and partitions between said side walls.

2,652,969
CARTON
Harold A. Pfaff, Neenah, Wis., assignor to Marathon Corporation, Rothschild, Wis., a corporation of Wisconsin
Application December 3, 1951, Serial No. 259,594
7 Claims. (Cl. 229—33)



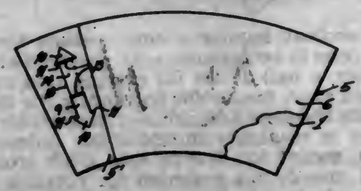
1. A carton of flexible material comprising a tray having a bottom wall, front and rear walls, and side walls, a cover having a top wall, side walls and a front wall, said cover walls being adapted to overlie snugly said tray walls when the carton is closed, a locking flap extending externally from and connected by a hinge to the top edge of said tray front wall, said flap having a portion thereof wider than said hinge, a pair of glue flaps, one connected to each of said side walls of the cover and partially adhered to the inside face of the cover front wall, said flaps being unadhered to said front wall at their outer ends from the top edge to the bottom edge of said flaps, the end edge of each of said glue flaps having an upwardly inward inclination, the lower portions of said glue flaps measured along a line parallel to the hinge of said locking flap being spaced apart a distance less than the maximum width of said locking flap and greater than the length of said hinge to contact the side edges of said locking flap as said cover is closed, and the upper portions of said glue flaps being spaced apart a distance less than the length of said hinge to engage the locking flap below and adjacent said hinge to lock the cover in closed position.

2,652,970
FOLDED-BLANK CARTON
Walter C. George, St. Louis, Mo., assignor to Gaylord Container Corporation, St. Louis, Mo., a corporation of Maryland
Application October 1, 1948, Serial No. 52,325
2 Claims. (Cl. 229—37)



1. A one-piece folded-blank carton comprising end walls and side walls having upper marginal half cover flaps the free edges of which flaps are in substantial horizontal abutment, said half cover flaps having hingedly connected, inwardly depending end flanges adapted, when said cover flaps are closed, to extend into said carton alongside the inner faces of said end walls, each of said end walls having hingedly connected thereto an upper marginal sealing flap, said sealing flap comprising a base portion tapering symmetrically from the hinged connection and a terminal coplanar substantially rectangular portion of less width than the said base portion, each of said end flanges having a hinge connection with its respective cover flap of the same length as the combined lengths of the sealing flap portions, each of said flanges having a width substantially equal to one-half the difference between the width of the rectangular flap portion and the length of the flap hinge connection, and said sealing flaps overlapping said cover flaps and secured flatwise exteriorly thereto so as to close the end portions of the joint between the edges of the covers and the joint between the cover flanges and the inner face of the upper margin of said end walls, whereby certain of the end cover flanges may be formed of side portions severed from the sealing flaps.

2,652,971
DISPOSABLE DRINKING CUP
Jack K. McFarland and Wilmer C. Neiss, Billings, Mont.
Application July 3, 1950, Serial No. 171,804
1 Claim. (Cl. 229—52)



A disposable drinking cup comprising an annular wall consisting of a sheet of paper having one end portion overlapping the outer surface of the other end portion of the sheet, the overlapping end portion of the sheet being adheringly secured flat against the confronting surface of the overlapped end portion of the sheet, a bottom for the cup having marginal portions secured to lower portions of the annular wall, the overlapping end portion of said sheet being formed with a vertically extending slit and transverse slits extending from upper and lower ends of the vertical slit and together therewith forming a tongue free along one side edge and across upper and lower ends and along its other side being integral with the said overlapping end portion of the said sheet, and an initially flat strip extending vertically along the outer surface of the overlapping end portion of wall-forming sheets and transversely overlapped for its full width by said tongue and having end portions extending beyond upper and lower ends of said tongue into space between the said end portions of the sheet and terminating in widened ends constituting heads having base portions projecting from opposite side edges of the strip under the said overlapping end of said sheet for engaging upper and lower ends of said tongue and holding the strip in engagement with the wall, said strip being slidable longitudinally through the laterally extending end portions of the slit whereby the intermediate portion of the strip may be drawn outwardly and form an outstanding U-shaped handle anchored at its ends by the heads of the strip.

2,652,972
PAPER BAG
Harold C. Davis, Webster Groves, Mo., assignor to Bemis Bro. Bag Company, St. Louis, Mo.
Application October 13, 1949, Serial No. 121,129
2 Claims. (Cl. 229—55)

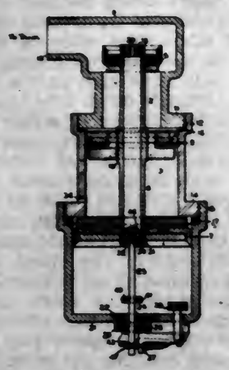


1. A paper bag particularly for holding empty cans stacked in horizontal layers of generally rectangular outline, comprising a single-ply paper bag tube having a generally rectangular cardboard bag bottom, the lower margins of the tube being folded inward and adhered to the bottom, and four paper reinforcing strips adhered to the inside of the bag tube extending lengthwise of the bag, one strip extending from each of the four corners of the bottom for the full height of the bag, the lower ends of the strips being folded inward with the lower margins of the tube.

2,652,973
AIR INJECTOR
Vaughan R. Dibble, Tangerine, and Vaughan R. Dibble, Jr., Eustis, Fla., assignors of one-third to Edward J. Newhouse, Mount Dora, Fla.
Application January 10, 1951, Serial No. 205,909
9 Claims. (Cl. 230—53)

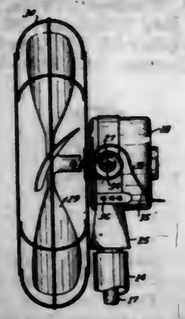
1. In an air injector device for a water system including a pump and a pressure tank, said air injector device including at least two cylinders, one of said cylinders having a smaller internal diameter than the other of said cylinders, means connecting said cylinders, at least two pistons of corresponding diameter to said cylinders, each piston being reciprocably mounted in each of said cylinders, piston rod means connecting said pistons to each other, a head having an enlarged space forming a chamber of larger cross section than said smaller cylinder located on the opposite side of said cylinder of smaller diameter,

than the other of said cylinders, said piston rod means being of a length whereby said smaller



piston becomes disengaged from said smaller cylinder and enters said chamber when said smaller piston reaches one end of its movement.

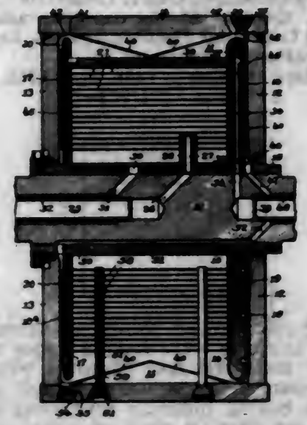
2,652,974
ELECTRIC FAN
Martin G. Fettel, Cleveland, Ohio
Application May 15, 1950, Serial No. 162,670
6 Claims. (Cl. 230—254)



1. An electric fan comprising a base, a bracket member mounted for free rotational movement on said base, a plurality of spaced lugs projecting from one side of said bracket, a motor and a fan driven thereby mounted in said bracket, the axis of said motor and fan being offset with respect to the axis of rotation of said bracket whereby upon actuation of said fan reactive forces are created to effect rotation of the bracket and the fan carried thereby, said motor being pivotly mounted in said supporting bracket for movement about an axis traversing the axis of rotation of the bracket, and a clock spring encircling the pivotal mounting of the motor supporting bracket having the inner end thereof secured thereto and the outer end free to engage one of said lugs whereby the rotational speed of the fan may be controlled through spring tension applied to said pivotal mounting.

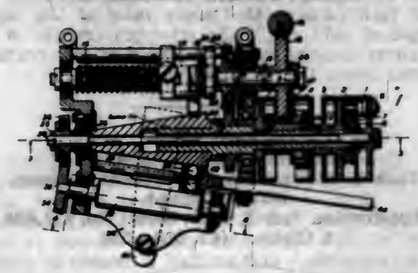
2,652,975
CENTRIFUGAL COUNTERCURRENT EXCHANGE DEVICE
Nicholas J. Angelo, Evergreen Park, Ill., assignor to Walter J. Podbielniak and Wladzia G. Podbielniak
Application October 12, 1951, Serial No. 251,690
3 Claims. (Cl. 233—15)

1. In apparatus for countercurrent exchange of at least partly immiscible liquids of different densities, a rotor having an axial shaft, a plurality of radially spaced partition walls within said rotor and surrounding said shaft, means for supplying heavier liquid and for discharging lighter liquid from within said rotor at the inner portion thereof, means for supplying lighter liquid and discharging heavier liquid from with-



in said rotor at the outer portion thereof, the said partition walls being provided with radially aligned openings and the outer wall of said rotor being provided with an opening in radial alignment with said aligned openings in the partition walls, and removable means for closing said radially aligned openings and the aligned opening in the rotor wall.

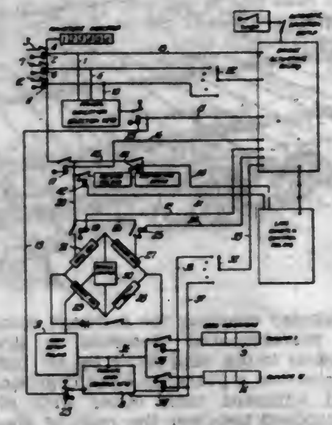
2,652,976
SEXTANT
Philip Francis Everitt, Seven Kings, and John Keeble, Ilford, England, assignors, by mesne assignments, to Kelvin & Hughes Limited, Glasgow, a British company
Application October 4, 1949, Serial No. 119,493
In Great Britain October 5, 1948
3 Claims. (Cl. 225—61)



1. A sextant having a cone, means for driving the cone in accordance with observed altitude, a cylinder, a ball device for driving said cylinder from said cone, means for traversing the ball device along the cone and cylinder, a shaft on which the cone is rotatably mounted for independent rotation, means for driving said shaft from said cylinder, five drums mounted for rotation about the axis of said shaft and marked on their peripheral surfaces so that two of said drums indicate minutes and degrees of altitude respectively and are driven from the cone, the other drums being integration aligning drums, the first of said integration aligning drums being attached to said shaft, the second being connected to and driven by the cone, and the third

being freely mounted for receiving differential rotation from the first integration aligning drum and the cone.

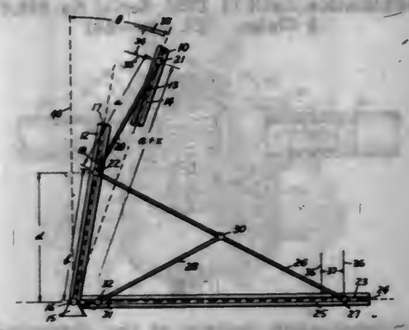
2,652,977
COMPUTER
Oscar C. Levy, Chicago, Ill., assignor to American Totalisator Company, Inc., Baltimore, Md., a corporation of Maryland
Application December 31, 1949, Serial No. 134,313
26 Claims. (Cl. 235—61)



4. The combination with an odds computer having a bridge into one arm of which a resistance indicative of a total sum is placed by relays actuated by potentials indicative of a code on a total bus, and into another arm of which resistances indicative of individual runner sums are placed on at a time by relays actuated by potentials indicative of a code on individual runner busses and the bridge balanced to determine the approximate odds on the individual runners; of a late scratch control comprising: a group of refund storage relays; key means for scratching the runner and for connecting the refund storage relays to the individual runner bus corresponding to the scratched runner to operate certain ones of the relays and thereby store the sum then registered on that runner in said relays; late scratch control relays; a subtracting device; means in said late scratch control relays for connecting a register switch for each order in said subtracting device to said total bus and for stepping said switches to positions indicative of the sum registered on the total bus; means for operating said subtracting device to subtract from said total sum the sum registered in said refund storage relays; and means for placing a resistance indicative of the difference between said sums into the total arm of the bridge as a total against which resistances indicative of the individual runner sums are balanced to determine the approximate odds on the runners.

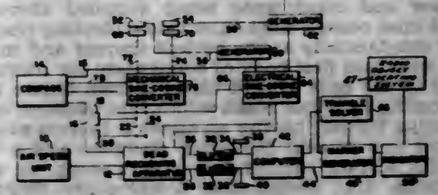
2,652,978
MULTIPLICATION AND DIVISION LINKAGE OPERATOR
Eugene W. Pike, Newton, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application March 14, 1951, Serial No. 215,515
2 Claims. (Cl. 235—61)

1. A linkage operator comprising a first slidably mounted input member having a straight line path, a second pivotally mounted rotative input member with its pivot on the path of the first member, slide means on said second member causing movement along a straight line through said pivotal mounting, a connecting link engaging said first member and slide means; slidably mounted output means disposed to move



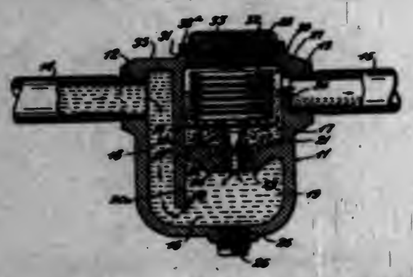
along a path at an angle to the path of the first input slide member differing from ninety degrees by twice the desired range of rotation of the rotating slide-carrying input member and a connecting link engaging said slide means and output means.

2,652,979
ARRANGEMENT FOR PROVIDING CORRECTIONS IN GROUND-POSITION-INDICATING SYSTEMS
Britton Chance, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application August 1, 1945, Serial No. 608,318
4 Claims. (Cl. 235—61)



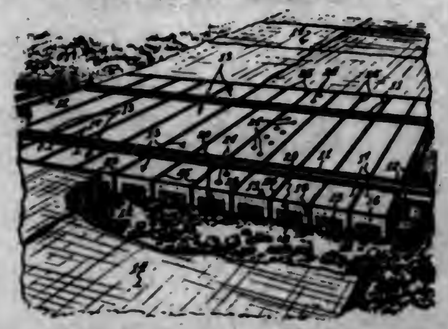
2. A system for continuously indicating the position of a fixed object relative to a moving object, said system comprising: an indicator on said moving object; first means for obtaining on said indicator a continuous indication, stabilised relative to the heading of said moving object, of the actual position of said fixed object; second means, including means for measuring the heading velocity component of said moving object and means for introducing the estimated drift velocity component of said moving object, to obtain on said indicator a continuous indication, stabilised relative to the heading of said moving object, of the position of said fixed object computed as a function of the heading of said moving object, relative to a given direction, and the integrated resultant velocity of said moving object over elapsed time, any difference between said resultant velocity and the true velocity of said moving object causing an error between the actual and computed indicated positions of said fixed object; and third means coupled to said second means for correcting said error and simultaneously providing a correction factor for said estimated drift velocity to prevent any future error from being introduced.

2,652,980
THERMOSTAT-CONTROLLED CONDENSATION DRAINER
Charles W. St. Clair, Painesville, Ohio, assignor to The Cee Manufacturing Company, Painesville, Ohio, a corporation of Ohio
Application April 11, 1951, Serial No. 220,479
1 Claim. (Cl. 236—56)



A condensation drainer of the character described comprising, a housing having therein a lower condensate collecting chamber adapted to collect a first body of condensate and an upper discharge chamber located directly above and separated from said collecting chamber by a transverse wall, means on said transverse wall defining an orifice passage connecting the lower end of said discharge chamber directly with the upper end of said collecting chamber, a depending baffle wall in said housing extending to a point adjacent the bottom of said collecting chamber, said housing also having a substantially vertical inlet passage adapted for connection of its upper end with a vapor line or the like to be drained and the lower end of which inlet passage communicates with said collecting chamber around the lower edge of said baffle wall and adjacent the bottom of said collecting chamber such that vapor and condensate being supplied through said inlet passage must enter said collecting chamber substantially at the bottom thereof and mingle with said first body of condensate for dissipation of the heat of said vapor therein before the incoming fluid can reach said orifice passage, said housing further having an opening therein at the upper end of said discharge chamber and a locating surface surrounding said opening, an expansible and contractible temperature responsive bellows in said discharge chamber, a depending metering pin connected with the lower end of said bellows for actuation thereby and disposed in flow control relation to said orifice passage to control the flow therethrough from said receiving chamber to said discharge chamber, a closure closing said opening and seating against said locating surface, said bellows having the upper end thereof connected with said closure for mounting the bellows thereon with said metering pin in said flow control relation to said orifice passage, said housing additionally having an outlet passage leading from said discharge chamber and adapted for the connection of a delivery conduit therewith, means defining a dam partially restricting said outlet passage such as to trap in said discharge chamber a second body of condensate of a depth to immerse therein a substantial portion of the length of said bellows including the lower end of said bellows, and a deflecting disk extending transversely of said discharge chamber adjacent to but below the lower end of said bellows and adapted to be impinged by fluid flowing upwardly into said discharge chamber through said orifice passage, said collecting and discharge chambers having a volume in relation to the rated flow capacity of the drainer such that said first and second bodies of condensate will normally protect said bellows against large or sudden temperature changes.

2,652,981
RAILWAY CROSSING
Robert F. Lanier, Lanett, Ala.
Application February 23, 1951, Serial No. 212,351
4 Claims. (Cl. 238—9)



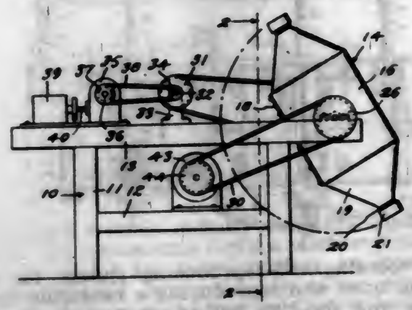
1. A highway crossing for railways comprising separate prefabricated elements, a group of said elements being supported by an individual railway cross-tie, a plurality of said groups being positioned adjacent each other with elements thereof disposed between the rails of the tracks and along the outside of the same, each of said elements being subject only to the movement of the tie on which it is supported.

2,652,982
TIE PLATE CLAMP AND RAIL GUARD
Jacob Rush Snyder, Cleveland, Ohio
Application October 11, 1950, Serial No. 189,548
8 Claims. (Cl. 238—349)



7. In a rail fastening, a wood tie, a tie plate having a transverse rail-gauging shoulder and an opening at a location to extend through said shoulder, a rail having a base flange seated on said tie plate, a spike having a stem of a substantially square cross-sectional shape driven into said tie through said opening and a head located above said shoulder, and a clip held in place by said spike and effective to yieldingly press said tie plate against said tie, said clip comprising a looped spring portion extending upwardly and outwardly in diverging relation to said tie plate and a pair of upper and lower arms extending in the same general direction for different distances and constituting integral extensions of the ends of said looped spring portion, the lower of said arms being the longer and being convexly bowed downwardly and having in its end portion an opening of a substantially square shape located adjacent to but spaced from the extreme end of said end portion and through which opening the stem of said spike extends and in which opening said stem is effective to prevent turning of said clip about said spike, said upper arm having a sinuously curved shape including a downturned forked end straddling the stem of said spike and adapted to seat against the lower arm on opposite sides of the opening of the latter, said shoulder having a longitudinal surface thereon sloping downwardly and outwardly away from its top edge and said end portion of said lower arm having an inclined surface on the underside thereof extending upwardly and inwardly over and in spaced relation to the base flange of said rail and seating on the sloping surface of said shoulder such that said clip reacts against said shoulder in a direction to resist outward lateral shifting of said tie plate.

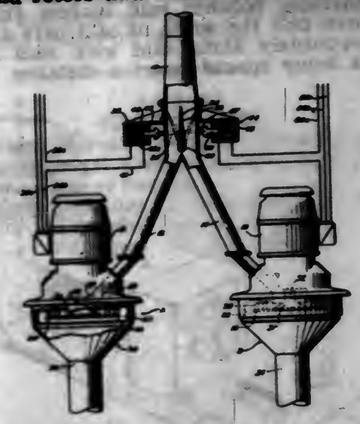
2,652,983
PULVERIZER AND MIXER
Arthur L. Hall, Memphis, Tenn.
Application January 28, 1952, Serial No. 268,578
1 Claim. (Cl. 241—86)



A pulverizer and mixer comprising a base frame, a housing formed of a central body of substantially square cross section and having rectangular sides and tapered substantially four sided pyramidal ends, a cap removably mounted on each end, the sides of said central body forming the bases of the end pyramids, a shaft rotatably carried by said frame passing horizontally through the center portion of said central body and loosely engaging through said frame, whereby the axis of rotation of said body is perpendicular to the length of said housing, a plurality of beater members fixed to said shaft in said housing, means for rotating said shaft, and means for rotating said housing about said shaft at a speed slower than the speed of said shaft, two sides of said central body lying in planes at right angles to said shaft.

2,652,984
FLOW CONTROL APPARATUS FOR BULK PRODUCTS
Robert B. Dodds, Woodbridge, Conn., assignor to The Safety Car Heating & Lighting Company, Inc., New Haven, Conn.
Application May 5, 1949, Serial No. 91,511
5 Claims. (Cl. 241—135)

1. In apparatus for maintaining a constant proportion between the flow of a bulk product to a pair of treating chambers, means forming said treating chambers, a motor-driven rotor in each of said chambers, means for guiding said product to said chambers, a valve positioned in said guide means to vary the flow of the product to one chamber in accordance with the flow to the other chamber, and electromagnetic means associated with said rotors and acting upon said valve to maintain the predetermined ratio of product flow to said chambers.



2,652,985
JAW CRUSHER WITH OPPOSED JAWS DRIVEN BY UNBALANCED WEIGHTS
Gerhard Linke, Mulheim-Ruhr, Germany
Application September 21, 1949, Serial No. 116,997
In Germany October 1, 1948
6 Claims. (Cl. 241—266)

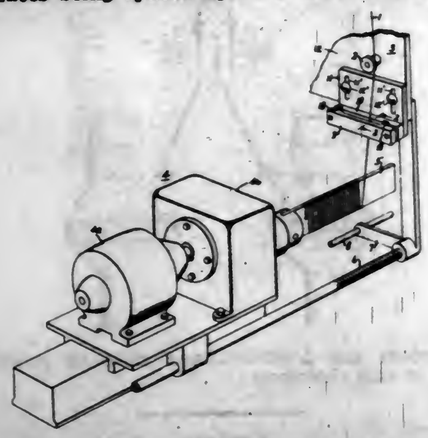


1. A jaw crusher, comprising two jaws pivoted for oscillation in opposition to each other, unbalance wheels having wheel bearings rigidly mounted on said jaws remote from the respective jaw pivots to oscillate together with said jaws, said wheels having respective unbalance weights 180° phase displaced relative to each other, a stationary drive, and elastic coupling means connecting said drive with said wheels.

2,652,986
WIRE GUIDE
Benjamin B. Scott, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 18, 1949, Serial No. 82,112
4 Claims. (Cl. 242—9)

1. A winding device having, in combination, winding means to wind wire on a supporting member and a guiding device provided with a slot for guiding said wire to a predetermined position on said member comprising a plate mounted upon the winding head of said winding means, said plate being provided with mounting means adjustable for the width of said supporting member, rectangular bars forming the sides of said slot adjacently mounted upon said plate and disposed perpendicularly to the axis of rotation of said member and spacers forming the ends of said slot mounted between said bars and near the ends of said bars to space apart the facing surfaces of said bars a distance slightly greater

than the normal diameter of the wire being wound, said bars being provided with beveled relief surfaces between said spacers extending more than half the width of said bars and disposed oppositely along said wire, said beveled surfaces being spaced apart a distance greater



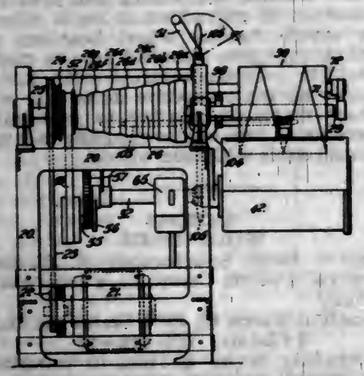
than said normal diameter and the portions of said facing surfaces between said spacers being separated along said wire a distance greater than said normal diameter, to allow lengths of wire having diameters greater than said normal diameter to pass through said device.

2,652,967

PRECISION CROSS WINDING FOR YARNS

Frank Osborne, Adlington, near Macclesfield, England, assignor to Wm. Ayrton & Company, Limited, Longsight, Manchester, England, a British company

Application May 12, 1949, Serial No. 92,789
In Great Britain May 20, 1948
9 Claims. (Cl. 242—43)



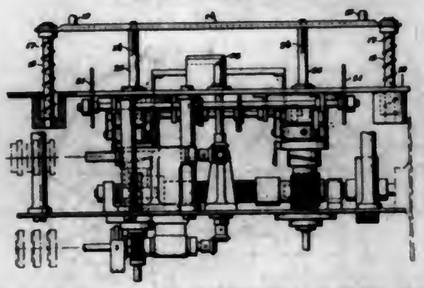
1. A machine for the precision cross-winding of yarns, comprising a frame and a prime mover therein, a rotatable cop spindle mounted on the frame for holding the cop to be wound, variable speed driving means including a pair of stepped cone pulleys and a belt thereon, a belt shifter and means for urging the belt shifter from the high-ratio drive-end of the pulleys to the low-ratio drive-end, a series of steps mounted to intercept said belt shifter progressively opposite the respective steps of the pulleys, and means for imparting the movements to said movable member as the cop grows to said steps for their progressive removal from intercepting position, said variable speed driving means coupling the rotatable cop spindle to said prime mover, a reciprocating yarn layer mounted on said frame for laying the yarn cross-wise on the cop, and constant speed-driving mechanism coupling said yarn layer to said prime mover, said yarn layer including a member movable away from the cop spindle by the growth of the cop, and said variable speed driving means being operatively associated with said movable member for operation at pre-determined diameters of cop, for progressive reduction of spindle speed.

2,652,988

MAGAZINE ARRANGEMENT FOR RECORD-RECEIVING MATERIAL IN STRIP OR WIRE FORM

John Edward Godeck, Esher, England, assignor to Brecomin (England) Limited, Gillingham, England

Application January 16, 1951, Serial No. 206,133
In Great Britain May 5, 1948
1 Claim. (Cl. 242—54)



A recording-and-reproducing system for recording upon and reproducing a recording upon a tape and the like having, in combination, a base, two rotatable spindles mounted upon the base upon which take-off and receiving reels may be mounted for rotation, a recording-and-reproducing mechanism mounted upon the base between the spindles, means for rotating one of the spindles to carry the tape and the like from the take-off reel on to the receiving reel past the recording-and-reproducing mechanism, a plurality of guide posts provided with terminal stops mounted upon the base, a platform having spindle openings for receiving the spindles and guide openings for receiving the guide posts, means for normally maintaining the platform away from the base yieldingly in engagement with the terminal stops, the platform being provided with a position-locating device for mounting a magazine containing the take-off and receiving reels thereupon with the reels over the spindles in order that the magazine and platform may be forced as a unit toward the base in opposition to the action of the yielding-maintaining means, and means for latching the magazine and platform to the base upon the platform becoming adjusted to a predetermined position adjacent the base.

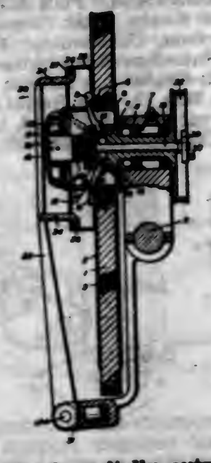
2,652,989

MOUNTING FOR REELS, BOBBINS, AND THE LIKE

Stanley Warwick Ripley, Gravesend, England, assignor to British Insulated Callender's Cables Limited, London, England, a British company

Application June 30, 1951, Serial No. 234,492
In Great Britain July 13, 1950
2 Claims. (Cl. 242—68)

1. A reel-mounting spindle with a reel-seating surface provided by a longitudinally slotted external cylindrical surface of a hollow barrel portion of the spindle, a flange integral with the spindle and extending radially from the reel-seating surface, a central rod extending axially through and rotatable about its axis in the barrel portion, restraining means holding the rod against axial displacement, at least two clamping-arm supporting pivots fixed to the spindle and symmetrically arranged about the rod beneath the reel-seating surface, a clamping arm attached at one end to each pivot and movable between a collapsed position wholly below the reel-seating surface and a clamping position in which the



other end extends radially outwards through a slot in the reel-seating surface, a screw thread on the rod within the barrel portion, an internally screw-threaded non-rotatable collar engaging said screw-thread and bearing against each arm, the arm-engaging surface of the collar being radially slotted to receive the arms, and a knob of diameter not greater than the barrel diameter fixed to one end of the rod which extends outside one end of the barrel, said knob providing for the rod to be rotated in one direction to raise the arms into a position to clamp a reel between them and the flange and in the other direction to permit the arms to collapse below the reel-seating surface.

2,652,990

CASTING REEL

Daniel B. Ferguson, Denver, Colo.

Application November 6, 1948, Serial No. 58,643
14 Claims. (Cl. 242—84.5)



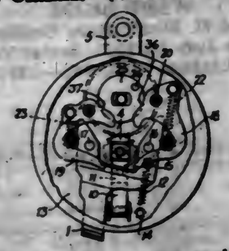
10. A reel comprising a spool; a winding device having a line-engaging element mounted to rotate about said spool and maintain the same axial position with respect to said spool, said line-engaging element, upon rotation and engagement with said line, winding said line onto said spool; a generally annular guide for said line mounted coaxially with respect to said spool; and means for moving said guide axially with respect to said spool and said line-engaging element, between a position in which said guide forces said line to engage said line-engaging element for winding on said spool and a position in which said guide clears said line-engaging element and said line may pass freely over said guide and axially off said spool.

2,652,991

FISHING REEL

Åke Eugen Murvall, Svangsta, Sweden, assignor to Aktiebolaget Urfabriken, Svangsta, Sweden, a corporation of Sweden

Application October 13, 1952, Serial No. 314,466
In Sweden October 15, 1951
7 Claims. (Cl. 242—84.7)



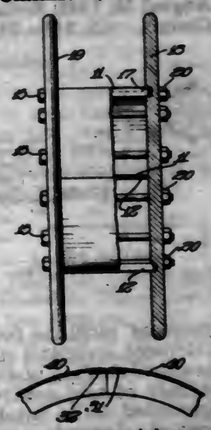
1. In a fishing reel, a gear casing, a rotatable spool journaled at one end in said casing, a driving shaft for the spool journaled in the casing, a clutch between the spool and the driving shaft, means normally urging said clutch to spool-driving position, lever means operable by the operator and movable to one position to effect release of the clutch and to another position to effect engagement of the clutch, two locking arms swingably mounted in the casing and each adapted independently of the other in one position to retain said lever means in the non-engaging position and in another position to release said lever means, and means on the driving shaft for cooperation with said locking arms one at a time and adapted when said lever means is in the clutch releasing position to release said locking arms for enabling said lever means to return to the clutch engaging position.

2,652,992

REEL TRAVERSE

George G. Tucker, Jr., Berwyn, Ill., assignor to Hubbard Spool Company, Chicago, Ill., a corporation of Illinois

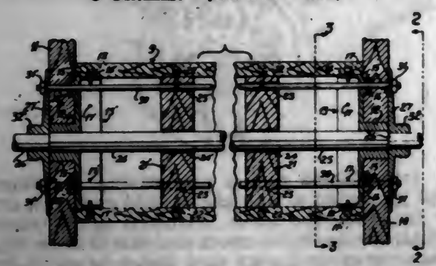
Application December 8, 1950, Serial No. 199,750
3 Claims. (Cl. 242—124)



1. A reel traverse comprising a plurality of segmental sections, each of said sections having por-

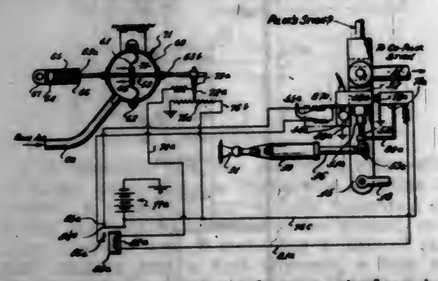
tions adjacent the marginal edge thereof formed with off-set integral tabs extending therefrom and having spaced substantially parallel opposed sides, said tabs being arranged to engage similar portions of a similar section to form a circular traverse with the engaging portions resisting axial displacement of one of said segmental sections with respect to others of said segmental sections, each of said sections also having opposed pairs of marginal edges bent inwardly thereof to form annular flanges at opposite ends of said traverse.

2,652,993
WARP BEAM
Richard H. MacMillan, Griffin, Ga.
Application July 16, 1951, Serial No. 236,943
5 Claims. (Cl. 242—124)



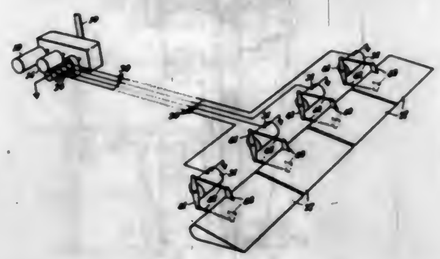
2. A warp beam comprising a barrel, a shaft passing through the same and a pair of heads mounted on said shaft, the ends of said shaft extending beyond said heads, a plate engaging the outer face of each of said heads, a fitting positioned in each end of said barrel and engaging the inner surface of each of said heads, each of said fittings having an annular flange secured to said barrel, each of said heads having a plurality of cavities therein, each of said fittings having a plurality of bosses projecting therefrom into said cavities in said heads, and tie rods extending through said barrel, said bosses, said heads and said plates for tying said plates, said heads and said fittings to said barrel.

2,652,994
MOTION RATIO CHANGER
Thomas A. Feeney, Los Angeles, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application August 30, 1948, Serial No. 46,877
3 Claims. (Cl. 244—83)



2. In a full powered airplane control system, a pilot's control element, a control surface, means for moving said control surface under power controlled by movements of said control element, a moment arm connected to be rotated about an axis by said control element, actuator means connected in said moment arm to move the outer end of said moment arm in radial directions with respect to said axis, a rod member pivotally connected to said outer end substantially at a right angle to said radial directions, elastic control element centering means connected in line between said rod member and the structure of the airplane, airspeed measuring means, and means for operating said actuator means to change the distance of said outer end from said axis in accordance with the condition of said airspeed measuring means.

2,652,995
FLYING CONTROLS FOR AIRCRAFT
Arthur Edward Swain, East Cowes, and Frank Henry Robertson, Carisbrooke, Isle of Wight, assigners to Saunders-Roe Limited, East Cowes, Isle of Wight, England, a British company
Application May 12, 1949, Serial No. 92,794
In Great Britain May 18, 1948
6 Claims. (Cl. 244—83)



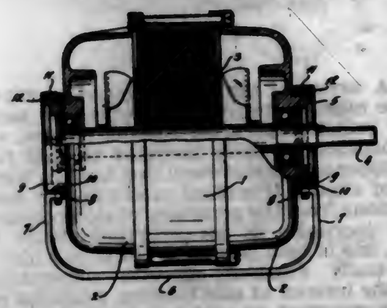
1. In a power operated flying control system for aircraft comprising a power unit, a pilot's control member for actuating said power unit to displace a control surface to a position selected by said control member, a differential gear comprising two sun wheels and a planet carrier, one of said sun wheels being coupled to said operating member for rotation thereby, a device coupled to the other sun wheel for rotation thereby and serving to impose resistance to movement of said operating member which increases with displacement of said operating member from a neutral position, and a trimming device which is operable to rotate said planet carrier and thereby to effect relative angular adjustment of the two sun wheels.

2,652,996
AIRCRAFT COCKPIT CANOPY
Pedro S. Yujuico, Hagerstown, Md., and Charles F. U. Stoner, Waynesboro, Pa., assignors to Fairchild Engine and Airplane Corporation, a corporation of Maryland
Application May 17, 1949, Serial No. 93,646
12 Claims. (Cl. 244—121)



1. In an aircraft canopy mounted for movement between extreme opened and closed positions, power means for the normal opening and closing movements of said canopy, emergency power means for the movement of said canopy in an emergency, manual means for opening and closing said canopy, selective control means for disengaging either or both said power means for the manual opening and closing of said canopy, automatic locking means for retaining said canopy in its extreme positions, and irreversible means associated with said normal power means for retaining said canopy in its intermediate positions.

2,652,997
RESILIENT MOUNTING FOR ELECTRIC MOTORS
Edwin C. Ballman, University City, Mo., assignor to Ballman Engineering Company, St. Louis, Mo., a corporation of Missouri
Application February 24, 1948, Serial No. 10,283
2 Claims. (Cl. 248—36)



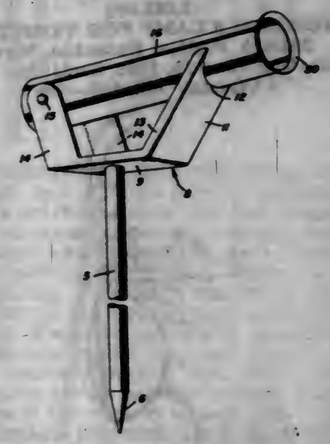
1. A mounting of the character described comprising a support member having an upright standard with an upper supporting face; a mounted member having a polygonal mounting element; a mounting element on said support member, the mounting element of the support member being formed of sheet metal provided with separated wings, said mounting elements being arranged in generally concentric relation to each other, said wings extending along and spaced from sides of the polygonal mounting element of the mounted member; and a cushioning element of rubber-like resilient material of substantially uniform cross-section mounted between said elements, said cushioning element having a greater axial extent than either of said mounting elements, the mounting element of said support member being removably secured to said standard at said upper face.

2,652,998
HANGER
Elton W. Miller, Hampton, Va.
Application December 9, 1949, Serial No. 131,994
1 Claim. (Cl. 248—39)



A two part device for hanging pictures or the like comprising a bracket and a plate, the bracket having an elongated skirt portion, means securing the bracket to a support to position its skirt in spaced parallel relationship to a support, the opposite ends of the upper edge of the skirt being oppositely inclined, the upper edge of the skirt at a point intermediate its ends being provided with an upwardly extending lug, the plate being elongated and provided with means securing it to the back of a picture or the like with the plate positioned in spaced parallel relationship to the back of the picture, the lower edge of the plate adjacent each of its ends being provided with a resilient finger each of which is offset to extend inwardly toward the picture back, a pair of resilient spaced apart fingers positioned intermediate and spaced from the first mentioned fingers and each being offset to extend outwardly away from the picture back, the plate portion between each end finger and the adjacent finger of said pair of intermediately positioned fingers being cut away to provide a slot having an open bottom and a closed top, the skirt of the bracket being disposed in said slots with the upper edge of the skirt in abutment with the slot tops, the plate portion between the pair of intermediately positioned fingers being cut away to provide a notch having an open bottom and a closed top, the bracket lug being disposed in the notch, the upper end of the notch being of much greater width than the width of the bracket lug, the plate fingers resiliently engaging both sides of the bracket skirt, and the plate being slidable along the bracket skirt, the side walls of the notch acting as a stop to longitudinal movement of the plate by engagement with the bracket lug.

2,652,999
FISHING POLE HOLDER
Walter P. Lohmar, Elgin, Ill.
Application December 17, 1951, Serial No. 262,051
3 Claims. (Cl. 248—42)

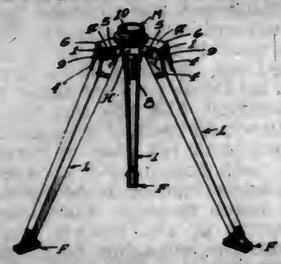


1. A fishing pole holder of the character described comprising a supporting spike, a removable bracket threadedly mounted on the upper end portion of said spike, said bracket including an upstanding arm having an arcuate recess in its free end portion, and a tube, for the reception of the handle of a fishing pole, pivotally mounted on the bracket and engageable by gravity in the recess for supporting the pole.

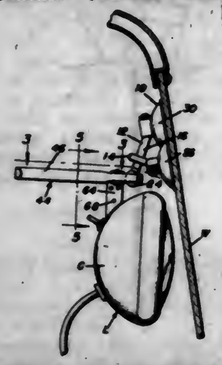
2,653,000
TRIPOD STRUCTURE
Clarence J. Cadwell, Carpenteria, and Frank M. Adamson, Los Angeles, Calif., assignors to The Cadwell Corporation, Beverly Hills, Calif., a corporation of California
Application December 17, 1948, Serial No. 65,895
1 Claim. (Cl. 248—168)

In a collapsible tripod, a circular plate, lugs extending radially in equidistantly spaced relation from the edge of said plate, legs correspond-

ing in number to the number of said lugs, a pair of spaced ears formed at the top end of each leg and straddled over the complemental of the lugs, a pivot element passing through said ears and the lugs straddled thereby, a second circular plate mounted for turning movements relative to the first plate, a screw element passing upwardly through both of said plates, and flat arms corresponding in number to the number of said legs extending radially from the edge of said second plate, one of each pair of said ears having a notch in its rear edge adapted to be engaged by a side edge of a complemental of said arms to lock the legs in normal positions of use, when the second plate is turned on said screw, said legs being swung into upwardly collapsed positions when said arms are released from said notches.

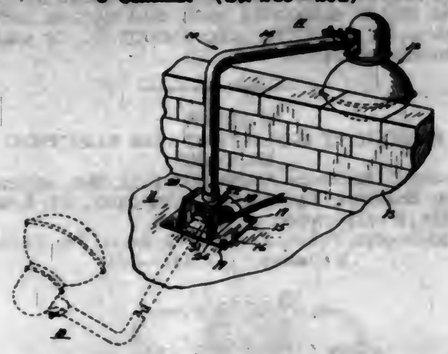


2,653,001
PORTABLE LAMP FOR VEHICLES
John A. Padjen, Evanston, Wyo.
Application June 30, 1952, Serial No. 296,367
4 Claims. (Cl. 248—296)



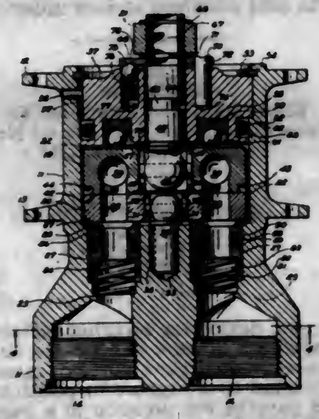
4. A lamp holder for vehicles, said holder comprising a lower pair of suction cups and an upper suction cup disposed between and above the lower suction cups, each of said upper and lower suction cups having a shank portion with a transverse aperture, a rigid spider member having a plurality of arms, said arms being provided with reduced outer end portions received in said apertures, means securing said arms to the shank portions and retaining the lower cups spaced equidistant from each other and from the upper cup, a ball element fixed to said spider member and intersecting an imaginary plane through the centers of the lower cups, a clamp including a pair of pivotally connected levers each having a jaw at one end and a spring engaging the levers and urging the jaws toward each other, said jaws gripping the ball element, a first plate fixed to one of the levers, a second plate adapted to be permanently fixed to a lamp casing, and fasteners removably securing said plates in juxtaposition.

2,653,002
BRACKET
Nathan E. Passman, Chicago, Ill.
Application September 25, 1951, Serial No. 248,175
3 Claims. (Cl. 248—291)



1. A device of the class described comprising a base member having a pair of spaced substantially parallel apertured-bearing flanges, a hollow housing rotatably mounted on said flanges and disposed therebetween, said housing having a pair of aligned trunnions protruding in opposite directions from the periphery of said housing and being journaled in corresponding flange apertures, one of said trunnions being provided with an axially disposed aperture communicating with the interior of said housing, a tubular socket fixedly mounted on said housing and communicating with the interior thereof and projecting from the periphery of said housing in a direction substantially perpendicular with respect to the axis of rotation thereof, and locking means adjustably mounted on one of said flanges and threadably insertable into a peripheral portion of said housing to effect locking of said housing in a fixed position only when the latter assumes a predetermined position of rotatable adjustment.

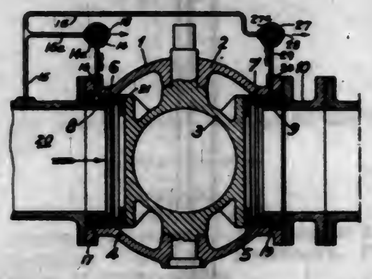
2,653,003
CONTROL VALVE
John W. Overbeke, Cleveland, Ohio
Application October 26, 1946, Serial No. 705,943
16 Claims. (Cl. 251—87)



11. A valve comprising a body provided with fluid inlet and outlet ducts, a movable valve plate and a stationary valve plate cooperating to control fluid flow between the ducts, the stationary valve plate being formed with passages therethrough, means mounting the stationary plate for

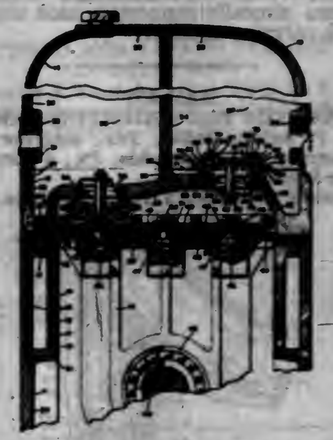
freedom of movement normally to the valve plate interface, and sleeves slidable in the ducts engaging the stationary valve plate about the passages to conduct fluid between the ducts and the said valve plate, the ducts being larger than the passages so that fluid pressure urges the valve plates together.

2,653,004
PIVOTED STOP VALVE
Othmar Schnyder, Klus, Switzerland, assignor to Gesellschaft der Ludw. von Roll'schen Eisenwerke A. G., Gerlafingen, Switzerland
Application February 21, 1947, Serial No. 730,038
In Switzerland October 7, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires October 7, 1962
3 Claims. (Cl. 251—103)



1. A hollow valve body having opposed inlet and outlet passages connected to a pressure fluid inlet conduit and a removable expansion element leading to an outlet conduit, respectively, comprising a rotatable plug member mounted in said valve body for controlling flow of said pressure fluid through the latter, first cooperable sealing means mounted within said outlet passage and on said plug member, said first cooperable sealing means being provided with first annular piston means slidably guided within said valve body and having a first end wall which in retracted position of said first piston means lies substantially flush with an adjacent portion of the inside surface of said valve body, and first ring means having a second end wall conformed to and sealingly engaged with said first end wall when the latter projects beyond the inside surface of said valve body, to thereby shut off flow of pressure fluid through said outlet passage second cooperable sealing means mounted within said inlet passage and on said plug member, said second cooperable sealing means being provided with second annular piston means slidably guided within said valve body and having a third end wall which in retracted position of said second piston means lies substantially flush with an adjacent portion of the inside surface of said valve body, second ring means having a fourth end wall conformed to said third end wall, said second ring means being adapted to sealingly engage said third end wall of said second piston means when the latter projects outwardly beyond the inside surface of said valve body, duct means connected to said inlet conduit, and valve means in said duct means for conducting pressure fluid alternately against said first and second piston means and simultaneously and respectively permitting relief of pressure against said second and said first piston means, whereby when said second piston means projects beyond the inside surface of said valve body flow of pressure fluid through said inlet passage is shut off and said first sealing means may be replaced without draining said inlet conduit or removing said valve body from the latter, and whereby when said second piston lies substantially flush with the inside surface of said valve body, pressure of fluid located within said inlet conduit past said second sealing means and downstream thereof within said valve body is equalized to thereby prevent destruction of said second sealing means, and said first sealing means shuts off flow of pressure fluid therethrough.

2,653,005
VALVE
Richard T. Cornelius, Minneapolis, Minn.
Original application December 2, 1949, Serial No. 130,727. Divided and this application February 6, 1950, Serial No. 142,658
2 Claims. (Cl. 251—122)



1. In combination with a wall having an opening therein and a recess therein encircling said opening, a valve including two dish shaped flexible valve members arranged in facing relation to form a chamber therebetween, each of said valve members having an annular center, a conical portion flaring outwardly therefrom and contacting rims at the edges of said conical portions, the center of one of said valve members being received in said recess, two dish shaped annular supports received within said valve members, said supports having annular centers disposed in the planes of the centers of said valve members, conical portions following along the conical portions of the valve members and rims extending toward one another, said rims falling short of the rims of said valve members, the annular center of one of said supports being received in said recess, a sleeve spacing said supports and forming an annular passageway between the rims of said supports communicating with said valve chamber, said sleeve having radially extending openings therein, a washer overlying the center of the other valve member and sleeve, a crowfoot engaging said wall on the opposite side thereof from said recess and a bolt extending through said washer and crowfoot.

2,653,006
PIPE LIFTER
Russel W. Lewis, Lafayette, La., assignor to Gem Oil Tool Company, Inc., Lafayette, La., a corporation of Louisiana
Application January 6, 1950, Serial No. 137,252
3 Claims. (Cl. 254—131)

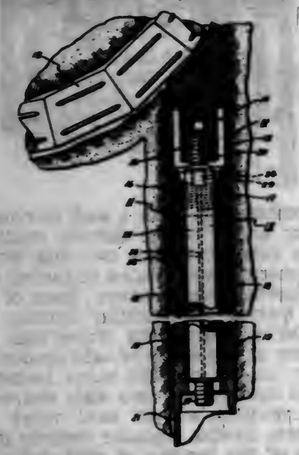
2. A pipe lifter comprising an arcuate yoke member, a substantially J-shape lever whose base

serves as a fulcrum and whose upturned short leg is rigid with said yoke member, an arcuate shoe member having an upper surface arranged for flat abutment throughout the major area of its arcuate extent with a pipe shoulder and having its lower surface in juxtaposed relation with



the upper surface of said yoke member, notches in one of said surfaces adjacent the arc ends of the notch carrying member, ridges adjacent the arc ends of the other member with the ridge crests supporting said shoe at the notch apices and means pivotally connecting said ridges and the notch carrying member.

2,652,007
APPARATUS FOR ORIENTING TOOLS
Herbert P. Aston, Dallas, Tex., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application November 3, 1948, Serial No. 58,681
4 Claims. (Cl. 255—1.6)



1. A guide for orienting repeated drilling operations in a well borehole comprising, in combination, an elongated tubular body provided with a longitudinally extending guide channel terminating at a point spaced downwardly from the upper end of the body and having a recess substantially aligning with said guide channel and extending upwardly therefrom to the upper end of said elongated body, upper and lower slips positioned exterior of said elongated body and a packing element mounted therebetween, a rod with tool fastening means on the ends thereof, a rib and stop lug mounted on said rod to engage the guide channel and recess of the elongated tubular body.

2,652,008
WELL JAR
Ernest L. Potts, Houston, Tex., assignor, by mesne assignments, to Cicero C. Brown, Houston, Tex.
Application December 29, 1949, Serial No. 135,567
5 Claims. (Cl. 255—27)

1. A well jar, comprising, a pair of telescopically connected tubular jar members having axially spaced jarring abutments engageable by relative axial movement of said members, said members being adapted to be connected between sections of an operating pipe string for applying relative axial and rotational forces to said members, tripping elements mounted on the respective jar members having cooperating inclined surfaces engageable by limited relative rotation in one direction between said jar members to normally hold said members in longitudinally spaced non-jarring relation and releasable by relative rotation in the opposite direction resultant from the application to said jar members of opposed axially directed forces in said pipe string exceeding the rotational engaging force in said



one direction to thereby release said jar member for forcible jarring engagement, and control means separate from said tripping elements for controlling the magnitude of the jarring force, said means comprising, separable cam elements non-rotatably mounted in the respective jar members, one of said cam elements being axially movable by fluid pressure in said pipe string into engagement with the other of said cam elements independently of the relative axial movement of said jar members, said cam elements having cooperating engaging surfaces relatively shaped to exert rotational torque pressure between said jar members in said one direction to an extent determined by the fluid pressure applied to said one cam element.

2,653,000
COMBINATION STABILIZER AND HYDRAULIC PACK-OFF KELLY JOINT
Douglas Ragland, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application December 16, 1949, Serial No. 133,311
1 Claim. (Cl. 255—28)

A grief stem comprising a tubular member defining a central longitudinal passage therethrough and defining a portion having a cylindrical outer surface adjacent each end thereof and an intermediate portion the outer surface of which is polygonal in cross section, a radially distensible resilient sleeve mounted on one of said portions having a cylindrical outer surface, one edge of said sleeve being affixed to said portion and the other edge being arranged to move slidably on said portion in fluid-tight relation with the cylindrical surface thereof, a conduit extending longitudinally along said tubular member and

fluidly connecting the space between said sleeve and said cylindrical surface with the outer sur-



face of said tubular member adjacent the other end thereof.

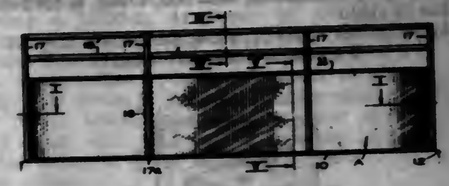
2,653,010
ROCK DRILL BIT
John C. Curtis, Claremont, N. H., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 24, 1948, Serial No. 16,744
6 Claims. (Cl. 255—64)



1. A percussive rock drill bit comprising a bit body having a generally cruciform shaped forward portion providing cross wings and a depressed central body portion traversed by a central cleansing fluid passage, slots formed in the front faces of said wings and extending radially with respect to the bit center and terminating at their inner ends at points spaced equidistantly from the central portion of the bit body surrounding said cleansing fluid passage, and tungsten carbide inserts bonded in said slots with their forward portions projecting forwardly from said central portion and providing cutting edges, said central body portion surrounding said cleansing fluid passage, supporting the end walls of said slots and providing an abutment positively to prevent inward endwise displacement of said inserts in said slots toward the bit center.

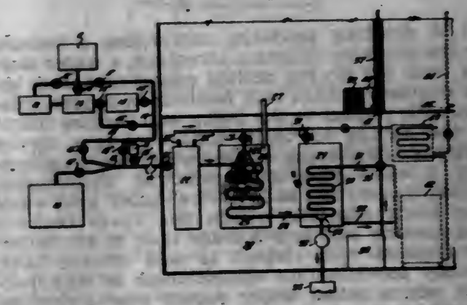
2,653,011
PLAYPEN
Edwin O. Stanoff, Bakersfield, Calif.
Application October 26, 1951, Serial No. 253,397
6 Claims. (Cl. 256—25)

1. In a play pen of the character described: an open-bottom loop-shaped band of imperforate sheet metal defining an upright solid-face enclosing wall; the confines of this wall providing a playing area; the band having an unobstructed lower edge adapted to rest flush with and directly on a floor, or the like, and further having an upper edge spaced above the floor; a plurality of upright standards disposed entirely outside of the playing area and being secured to the exterior of the loop band to extend thereabove; the standards abutting directly against the band to rein-



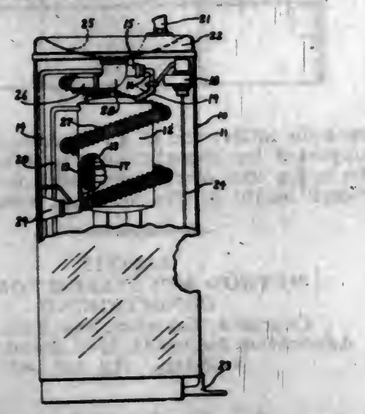
force the latter; and at least one loop-shaped rail supported horizontally on the standards above the upper edge of the loop bands to increase the overall height of the confining area.

2,653,012
METHOD AND SYSTEM FOR AIR CONDITIONING
Charles J. Thatcher, New York, N. Y.
Application August 12, 1948, Serial No. 43,815
4 Claims. (Cl. 257—3)



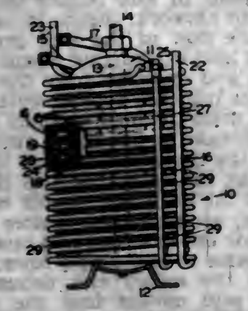
1. In a district steam-heating system, the combination with its central steam generating plant and installed thermal network for distributing steam therefrom to rooms of remote buildings having steam risers and hot water supply equipment, of an adjunct hot water supply and air cooling means for use in warm weather, comprising: air compressing means located at said central plant powered by the energy-generating facilities thereof; piping and mixing means at the central plant to introduce said compressed air together with steam at substantial pressure and temperature, into said thermal network; channeled, water-cooled heat exchanging means in said remote buildings connected to said network; means in said buildings to control the flow of the said pressure fluids through said heat exchanging means and to condense steam and moisture from the compressed air thereby to heat the cooling water; means to connect the pressure fluid channel of the heat exchanging means to the steam risers and supply lines of the heating system of the buildings and to connect the water outlet of the exchanging means to the hot water supply equipment of the buildings; air-expansion motors operable by compressed air under a load and means for connecting the same to said supply lines; and means to discharge the cooled and dehumidified exhaust from said motors into the air of said rooms—thus to provide in warm weather, from a remote source of energy by use of existing public utilities, both hot water and cooled, dehumidified air to a multiplicity of rooms of remote buildings.

2,653,013
PRECOOLER FOR REFRIGERATED DRINKING FOUNTAINS
Clyde P. Freer, Warren, Ohio, assignor to Halsey W. Taylor Company, Warren, Ohio, a corporation of Ohio
Application April 27, 1950, Serial No. 158,453
2 Claims. (Cl. 257—241)



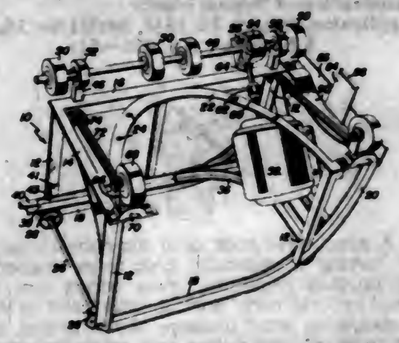
1. A drinking fountain, comprising a housing for the drinking fountain structure, a water storage tank for storing chilled water, said tank being disposed within said housing in spaced relation with respect to the inner wall surface thereof and having an outlet connected to a service outlet for dispensing chilled water for consumption, a waste pipe for conducting unconsumed chilled water from said service outlet, said waste pipe being disposed within the space between said housing and said storage tank in surrounding relation with respect to said storage tank, thereby providing for compactness in manufacture, and a coiled water supply pipe connected to said storage tank for admitting water thereto from a source of supply, said supply pipe being mounted on said waste pipe with convolutions thereof extending transversely about said waste pipe in close heat transfer contact with the outer surface thereof, whereby water to be admitted to said storage tank is pre-cooled by waste chilled water flowing through said waste pipe.

2,653,014
LIQUID COOLING AND DISPENSING DEVICE
David H. Smiader, Chicago, Ill.
Application December 5, 1950, Serial No. 199,189
3 Claims. (Cl. 257—241)



1. A liquid cooler and dispenser comprising a reservoir tank, a first coil of circular cross-section spirally wound around said tank, said first coil being adapted to connect to a source of refrigerant, a second coil of circular cross-section spirally wound around said first coil, said second coil being laterally spaced from said tank and engaging said first coil in superposed heat exchange relation, a third coil of circular cross-section spirally wound about said second coil and engaging said second coil in superposed heat exchange relation, a fourth coil of circular cross-section spirally wound about said third coil and engaging said third coil in superposed heat exchange relation, said third coil being in communication with said first coil and adapted to contain refrigerant, said second and fourth coils being adapted to contain liquid to be cooled, one of said second and fourth coils being connected and in communication with said reservoir tank, each of said coils including coil turns securely connected to each other in superposed heat exchange relation and laterally spaced with respect to said tank, said coil turns being vertically spaced substantially apart with respect to each other to provide open spaces between said turns and access to the outer surface of said tank, and a plurality of circumferentially disposed and vertically spaced spacer members, disposed between the coil turns and connected to the tank, for maintaining the vertical spaced relation of said coil turns.

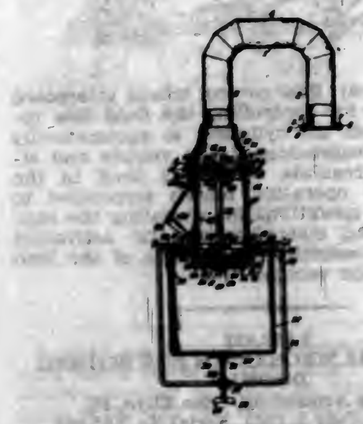
2,653,015
ROTATOR DRUM TRUCK
Ralph Andrews, Syracuse, N. Y.
Application July 18, 1949, Serial No. 105,291
10 Claims. (Cl. 259—31)



1. A rotator truck comprising a frame having support wheels journaled therebeneath, a caster assembly pivoted to said frame therebeneath, laterally spaced driving and idler rolls journaled upon said frame, means for rotating said driving rolls, said frame being cut away on its upper surface at one side, an arcuate support forming a rim for said cut away and said arcuate support having spaced openings therein for detachably securing idler rolls on said support at adjustable distances from said driving rolls.

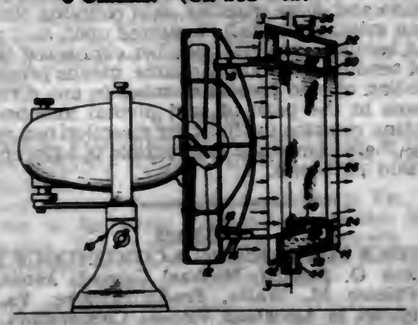
2,653,016
AIR CLEANING DEVICE
Jasper W. Lofton and Madison T. Archer, Houston, Tex.
Application September 25, 1950, Serial No. 186,576
8 Claims. (Cl. 261—35)

1. An air cleaning device for internal combustion engines including a combined liquid reservoir and sediment bowl for containing air cleaning liquid, an air conduit extending from the top of the bowl for connection to the air intake of an engine manifold, air inlet means located at the top of the bowl exteriorly of said conduit to one side thereof providing for the admission of air into the bowl, and a high speed rotary air and liquid separator arranged within the upper portion of the bowl, said separator being of general cup-shaped formation closed at its bottom part and having its side wall provided with a multiplicity of holes for the passage of air therethrough, said separator having its open top located adjacent to and communicating with said conduit, the high velocity air entering the bowl through said inlet means at the top of the bowl acting to churn up liquid in the bowl and force the same upwardly to envelope and submerge the rotary separator, the dust particles in the air



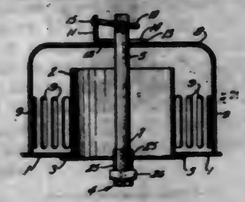
entering said air inlet means first becoming saturated with liquid in the bowl and then becoming as heavy as the liquid, the air being then freed of both liquid and dust particles by the rotary separator which acts to discharge the liquid radially outwardly therefrom, the cleaned air passing into the separator through the holes in the side wall thereof, the interior of the bowl being entirely free from obstruction between said air inlet means and said rotary separator to provide for free passage of air from said inlet means to the rotary separator except for the churned liquid within the bowl.

2,653,017
COOLING ATTACHMENT FOR FANS
Edward K. Frost, New York, N. Y.
Application November 7, 1950, Serial No. 194,455
6 Claims. (Cl. 261—72)



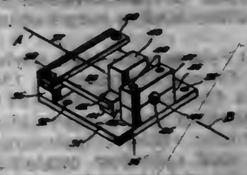
1. An evaporative cooler attachment for a standard fan having a fan blade guard, said cooler comprising a substantially frusto-conical collar and drum concentrically spaced from one another, means disposed between said collar and said drum for storing a supply of liquid and for holding said drum in a fixed spaced relationship with respect to said collar, a wick disposed on the inner surface of said drum and having a portion arranged in communication with said liquid storing means, said liquid storing means including a receptacle having side walls, the upper edges of said side walls being spaced from said drum to thereby provide passage ways for liquid condensate on the outer surface of said drum, and said container being located between opposed lower portions of said drum and said collar.

2,653,018
FASTENING DEVICE FOR BUBBLE CAP ASSEMBLIES
James P. Dunn, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application January 4, 1952, Serial No. 264,896
2 Claims. (Cl. 261—114)



1. In a bubble cap assembly, having a floor plate with an opening therethrough, a bell cap supported from the upper face of said plate, a strong back bridging said opening and having its ends engaged beneath said plate, and a hold down member fixed at one end to the strong back and extending upwardly through the top wall of said bell cap; a wedging device engaging the top wall of the cap and a portion of said hold down member at a location above said cap for exerting a downward force on the cap and an upward force on said member, said device comprising a support resting on top of the cap and upstanding therefrom and two members connected at one end to the support and projecting one above the other in cantilever fashion from the support, the outer and nonadjacent surfaces of said members converging and constituting the effective wedging surfaces of the device, said hold down member at a location above the top wall of the cap having a cylindrical hole therethrough, the axis of which is inclined to the plane of said wall, the upper member of said wedging device consisting of a cylindrical pin engaged in said hole.

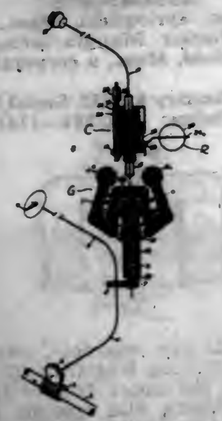
2,653,019
"WOW" ANALYSIS APPARATUS
Robert H. Dreisbach, Fort Wayne, Ind., assignor to The Magnavox Company, Fort Wayne, Ind., a corporation of Delaware
Application June 10, 1949, Serial No. 98,282
4 Claims. (Cl. 264—1)



1. In "wow" analysis apparatus, a turntable accelerometer comprising a rotatable turntable plate and at least one electro-mechanical trans-

ducer mounted on said plate outwardly of its center; said transducer comprising a piezoelectric crystal of the twister type, a bearing supporting said crystal on its axis of twist, said axis being disposed radially of said turntable, and a weight supported on said crystal and offset from the bearing for rotation about the twisting axis of said crystal whereby acceleration or deceleration of the turntable causes the weight to drive the crystal.
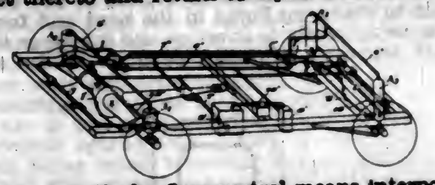
2,653,020
SPEED CONTROL SYSTEM
Jack B. Stinson, Long Island City, N. Y.
Application February 16, 1949, Serial No. 76,841
12 Claims. (Cl. 264—3)



2. A system of the character described comprising: a movable regulator, a controller for said regulator which controller embodies a movable part connected to the regulator, a driven centrifugal governor having a spindle operable upon said movable part to move the said part and thus shift the regulator, the spindle of the governor being normally spaced from the movable part of the controller to permit operation of the governor within a limited range of speed without moving the regulator, and a shaft connected at one end to the movable part of the controller for relative movement longitudinally thereof and locked thereto against relative rotation, said shaft being provided at its remote end with a manually operable member for manipulating said shaft to vary the gap between the movable member of the controller and the spindle of the governor to correspondingly increase or decrease such limited speed range of operation of the governor.

2,653,021
OLEO-PNEUMATIC SUSPENSION SYSTEM FOR AUTOMOBILES AND LIKE VEHICLES
René Lucien Levy, also known as René Lucien, Paris, France, assignor to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., Geneva, Switzerland, a corporation of Switzerland
Application February 20, 1948, Serial No. 9,868
In France February 26, 1947
14 Claims. (Cl. 267—64)

1. A combination liquid-pneumatic suspension system for motor vehicles including a plurality of cylinders, said cylinders containing separate masses of liquid and air under pressure, a piston in each cylinder movable under the influence of load conditions of the vehicle and subdividing the liquid mass in each cylinder into two volumes, said pistons having orifices of small diameter therein providing communication between said two volumes of liquid in each cylinder, a common pressurized source of supply for the liquid and the air, a closed circuit including said cylinders, said source and conduits providing communication between the source of supply and the respective cylinders for the conduct thereto and return of liquid and air there-



from respectively, flow control means interposed in said circuit for controlling the fluid flow towards and from the cylinders to automatically regulate the suspension of the vehicle and simultaneously regulate the liquid level in the cylinders, and operating means responsive to changing load conditions for actuating the control means and subordinating the activation thereof to the average fluctuations of the load conditions of the vehicle.

2,653,022
ANTIINERTIA MECHANISM FOR SLIDING DOORS
Westropp Armstrong, Glen Ellyn, Ill.
Application July 3, 1951, Serial No. 234,955
22 Claims. (Cl. 268—49)

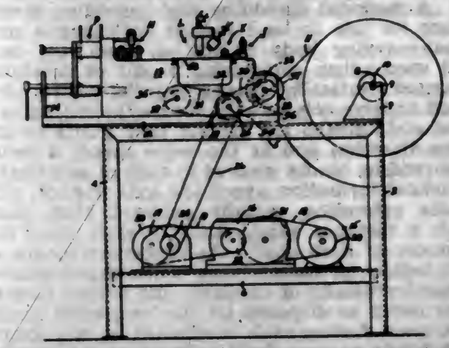


1. An anti-inertia device for an article slidable along a path relative to a fixed structure, said article being driven by a flexible drive member linearly movable relative to the fixed structure along a path substantially parallel with said first path, a mechanical coupling between the drive member and the article so that said article is adapted to move with the drive member, said coupling being normally locked while said article is moving along said path, but becoming unlocked when said article is at an end of its path to permit limited relative movement between said article and drive member, said coupling comprising a member pivotally mounted upon said article and having said drive member connected thereto and tending to rotate the same, means preventing rotation of said pivotal member in one direction, means in the path of said pivotal member preventing rotation in the other direction but removable therefrom when said article is adjacent and at said path end.

2,653,023
DEVICE FOR FEEDING A CONTINUOUS WEB
Arthur O. Russell, Michael Gravatt Jones, and William M. Watts, Fredericksburg, Va., assignors to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application June 16, 1949, Serial No. 99,464
7 Claims. (Cl. 271—2.5)

1. Feed mechanism for intermittently advancing a web of material comprising a frame, a

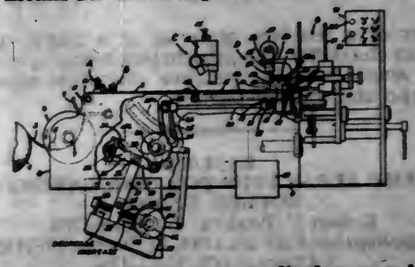
reciprocable member mounted on the frame for carrying the material to be fed, means for pressing the material against the reciprocable member during its forward feeding stroke, means for reciprocating the member comprising a crank shaft, a lever oscillatable about an axis and connected to the reciprocable member for converting the oscillations of said lever into reciprocating motion of a member, a link connecting said lever with a crank rod carried by the crank shaft, an adjustable link pivotally connected to the crank rod at its pivotal connection with the first-mentioned link, and means comprising a handle accessible to the operator for adjusting the adjustable link during operation of the machine.



3. Feed mechanism for intermittently advancing a web of material comprising a frame, a reciprocable member mounted on the frame, a plurality of parallel bars fixedly carried on the member and over the top of which the web is to be passed longitudinally of the bars, a supporting element fixedly secured to the member and extending above the path of the web over the bars, means for gripping the web comprising a transverse member pivotally mounted on the element on an axis transverse of the bars and of the direction of travel of the web and gravitationally urged downwardly into a position inclined somewhat from a perpendicular to the web with the lower end thereof engaging the web forwardly of the perpendicular through the pivotal axis and pressing the web against the bars, and means for reciprocating the reciprocable member, electromagnetic means mounted in fixed position on the frame, a magnetic element linked to the transverse gripping member for movement therewith and arranged to be carried thereby into the influence of the electromagnetic means at least during the last portion of the forward feeding stroke of said transverse gripping member, and a photocell disposed along the path of the web to receive light impulses therefrom, said photocell being connected to the electromagnetic means to energize said means in response to a change of light impulse.

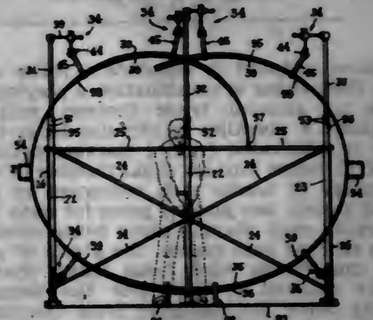
2,653,024
DEVICE FOR FEEDING, CUTTING, AND STACKING CONTINUOUS WEBS OR BANDS
Michael Gravatt Jones, Fredericksburg, Va., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application March 21, 1951, Serial No. 216,218
14 Claims. (Cl. 271—2.5)

1. In apparatus including mechanism for cutting individual wrappers from a continuous band of wrapping material having portions with different light qualities, gripper means for intermittently advancing said band to the cutting mechanism, a photoelectric cell directed towards said band and positioned to be influenced by changes in said light qualities, and means for generally controlling the amount of band material advanced by the gripping means on each stroke, said controlling means being responsive to impulses received from the photoelectric cell, the improvement which comprises in combination, means for adjusting the stroke of the gripper, means for totalizing the number of impulses



from the photoelectric cell, cyclical means driven in timed relation to the stroke of the gripper means for rendering the totalizing means inoperative to receive impulses from the photoelectric cell during a predetermined number of strokes and operative to receive impulses from the photoelectric cell during a predetermined number of strokes and means controlled by the totalizing means for operating the stroke adjusting means during the inoperative part of the cycle of said cyclical means.

2,653,025
MECHANICAL GOLF INSTRUCTION AID
Frank Zega, Bridgeport, Conn.
Application April 23, 1951, Serial No. 222,453
16 Claims. (Cl. 273—35)



1. A mechanical golf instruction aid comprising spaced parallel rails to guide a golf club along a predetermined curvilinear path conforming to a prescribed golf club swing; and a roller assembly to be secured to a golf club, said assembly including mounting means for removably securing said assembly on a golf club shaft; gripping means for holding the golf club shaft in said assembly to prevent relative movement therebetween lengthwise of the club shaft; and means mounting said assembly on said rails to provide for guided rolling movement of the assembly therealong as well as rotational movement of the golf club shaft about its own axis.

2,653,026
AERIAL TARGET
Abram M. Feltus, Washington, Miss.
Application March 20, 1950, Serial No. 150,735
1 Claim. (Cl. 273—105.4)

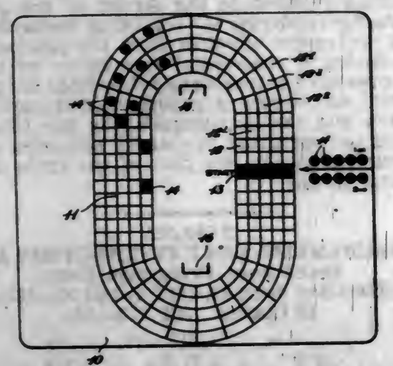
A skeet target comprising a conventional dish-shaped clay pigeon having a central web portion

and a pad of fibrous material attached to said web portion within the confines of the clay pigeon, said pad consisting of a plurality of



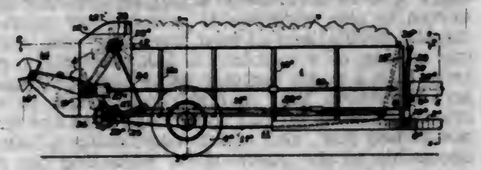
layers of a felt-like material of a fluffy, lightweight character, the attachment being by means of a single metallic fastener extending through the pad and the web portion.

2,652,627
GAME APPARATUS FOR SIMULATING A ROLLER DERBY
Robert F. Barash, Arlington, Va.
Application July 28, 1950, Serial No. 176,449
1 Claim. (Cl. 273—134)



A game adapted to simulate a roller skating derby, comprising in combination a playing board having an annular track thereon, said track comprising a plurality of annular lanes each of which is subdivided from a starting point common to all lanes into an equal number of spaces, a plurality of teams each composed of several playing pieces, one playing piece for each lane of said track, each playing piece being sized to fit within each of said spaces, the group of playing pieces comprising each team being characteristically marked to designate the team, said marking being distinguished from markings on the group of playing pieces designating another team, whereby playing pieces for each team mounted in each lane may be positioned to obstruct one or more players of an opposing team similarly mounted for movement in each lane for simultaneous play by movement piece-wise, one team against the other, said playing board having further marked thereon away from said track marking at least one marking designating an enclosure comprising a penalty box, said penalty box marking enclosing a space large enough on the surface of said board within which several of said playing pieces may be placed, and a chance device comprising a pair of dice adapted on chance throw thereof to indicate two digital numbers, said numbers being less in sum than the total spaces in a lane in said track for designating a number of spaces to be moved by one or more players from space to space about said track, whereby each member of a team may be moved a chance controlled irregular number of spaces about said track variable among the players of each team.

2,652,628
APPARATUS FOR SPREADING MANURE
William E. Templeton, Lexington, Ohio
Application November 24, 1950, Serial No. 197,324
2 Claims. (Cl. 275—3)



1. A material shredding and spreading mechanism for use in load feeders including a material-carrying body having an open rear end, said mechanism comprising a pair of rotatably mounted vertically spaced parallel shafts disposed transversely of said body adjacent its said open end; means for driving said shafts in the same direction and at the same speed; a series of shredding blades secured to each of said shafts in helical formation about the axis thereof, said blades extending radially outward from each shaft a distance substantially greater than the diameter of such shaft, the successive blades of each helical formation being equidistantly spaced circumferentially of its shaft, the helical formations being so disposed on the respective shafts that once during each revolution of the shafts each blade on one shaft assumes a conjunctive radially alined position with a corresponding blade on the other shaft in which position the outer ends of such blades are in at least slightly spaced relation; a third shaft disposed transversely of the body rearwardly of the first mentioned shafts; a plurality of inclined spreading elements carried by said third shaft; and means for rotating such shaft and elements.

2,652,629
TOOL HANDLE
Jesse J. Shore, Brownwood, Tex.
Application December 4, 1952, Serial No. 324,016
8 Claims. (Cl. 279—53)



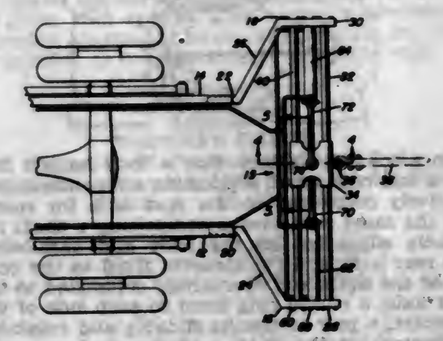
1. A tool handle comprising a body in axially aligned and separable sections, one of said sections having an axial bore terminating short of one end, the companion section of said body having an axial bore in longitudinal alignment with the bore of the first body section and provided with an internal bevel at one end, a contractible tool head exteriorly tapered to correspond with the bevel in said companion body section and having a shank movable longitudinally in the bore of said companion body section and whose shank is threadedly receivable in the end of said first body section, said head and shank being divided into parallel segments by opposed diametrical slots therethrough, one of said slots being adapted to receive the tang of a tool, a sleeve arranged for free longitudinal displacement in said shank and adapted to receive the end of said tang, a coil spring in the bore of said first body section to resist inward movement of said sleeve by said tang and means for aligning said body sections one with the other.

2,652,630
COUPLING AND FASTENING MEANS FOR TOOL SHANKS AND HANDLES
Ernest L. Van Guilder, Granville, N. Y.
Application July 3, 1950, Serial No. 171,967
2 Claims. (Cl. 279—104)



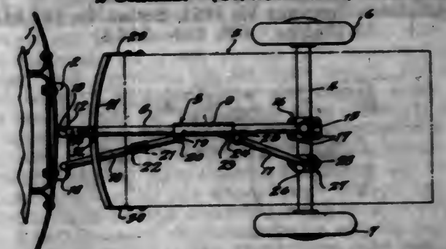
1. In a tool construction of the class described, a rigid shank having an axial bore opening through one end, said bore being cylindrical in cross-section, that portion of the wall which is coextensive with said bore having circumferentially spaced lengthwise slits opening into the bore and defining a plurality of resilient fingers, the portions of the fingers facing each other and also facing said bore being gradually reduced to feather edge proportions and providing knife-like anchors on the free ends of the fingers and simultaneously transforming the bore into a socket and said feathered surfaces into a bell mouth providing an entrance leading to said socket, and an expander adapted to be located in an opening in a tool handle, said expander comprising an elongated conical pin, the apex end of said pin being provided with a ball-like head, said head being of a diameter appreciably greater than the cross-section of the adjacent end of the pin and also of a diameter slightly greater than the diameter of said socket, said head being fitted through said bell mouth and anchored in an adjacent end portion of said socket.

2,652,631
TRAILER HITCH
Charles W. Butler, Arcadia, Calif., assignor of one-half to M. E. Barone, Arcadia, Calif.
Application November 9, 1951, Serial No. 255,626
2 Claims. (Cl. 280—33.1)



1. A trailer hitch comprising side bars, a hitch bar connected transversely of said side bars, a hitch block slidably mounted on said hitch bar, a pair of opposed fluid operated cylinders mounted on said side bars, a piston in each of said cylinders, said pistons being connected to said hitch block, a source of fluid pressure, conduit means connecting said source to said cylinders, valve means controlling application of said pressure in said cylinders to position said block on said bar, said cylinders being cross connected whereby both cylinders are simultaneously effective to move the block.

2,652,632
TRAILER STEERING HITCH
Walter R. Ellis, Los Angeles, Calif.
Application December 27, 1949, Serial No. 135,137
2 Claims. (Cl. 280—33.5)



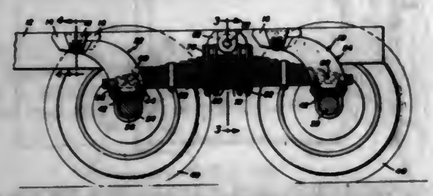
1. A hitch for interconnecting a draft vehicle with the axle of a trailer, including a draw bar, separate means at each end of the draw bar for pivoting the same to the vehicle and to the axle of the trailer, a sleeve freely shiftable upon the draw bar, two arms, separate means for pivoting one end of each arm to the sleeve for swing movement relative to the axis of the sleeve, and separate means pivotally connecting the opposite end of an arm to the draft vehicle and the opposite end of the other arm to the trailer axle, both arms being at an angle to the draw bar.

2,652,633
HAND TRUCK WITH ADJUSTABLE TOE PLATE
Joseph C. Chenette and Edmond Z. Chenette, Harlingen, Tex.
Application February 17, 1950, Serial No. 144,754
6 Claims. (Cl. 280—44)



1. A truck comprising a main frame, a toe plate hingedly connected with said main frame, cooperating means on the main frame and the toe plate for adjusting the frame and toe plate selectively at a predetermined angle to each other, said cooperating means comprising a pair of spaced apart stop levers secured to the toe plate and extending upwardly and rearwardly therefrom, a pair of stop pins extending between and secured to the upper corner portions of the stop levers, and an adjusting arm pivotally secured to and extending rearwardly from the main frame to turn on an axis extending transversely thereof, said adjusting arm being provided with a plurality of notches adapted to engage the stop pins selectively, and means for turning the adjusting arm disengaging said adjusting arm from its engagement with the stop pins.

2,653,834
AXLE LOAD EQUALIZING ASSEMBLY
Van L. Frasier, Springfield, Mo., assignor to Frasier Tandem Systems, Incorporated, Springfield, Mo., a corporation of Missouri
Application January 15, 1951, Serial No. 206,048
12 Claims. (Cl. 280—104.5)



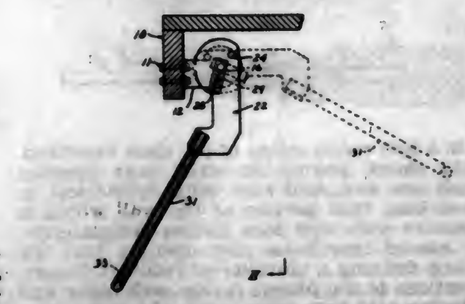
1. An axle load equalizing assembly comprising a longitudinally extending frame member, a pair of parallel transversely extending axles disposed below the frame member, a pair of stabilizer arms having their lower ends secured to the axles, rigid horizontal pivot pins securing the upper ends of said arms at longitudinally spaced positions to the frame member for swinging movement in a longitudinal vertical plane, and a longitudinally extending spring pivotally secured intermediate its ends to the frame member for swinging in said plane and supported adjacent its opposite ends on the lower ends of the stabilizer arms, said arms having registering horizontal openings therein accommodating the ends of the spring, the pivot pins for said arms being disposed above said spring and located in a common plane that extends through the pivot means for the spring.

2,653,835
TORQUE ROD ASSEMBLY FOR SPRING SUSPENSION
James C. Ward, Springfield, Mo., assignor to Reynolds Manufacturing Company, Springfield, Mo., a corporation of Missouri
Application November 9, 1951, Serial No. 255,699
10 Claims. (Cl. 280—104.5)



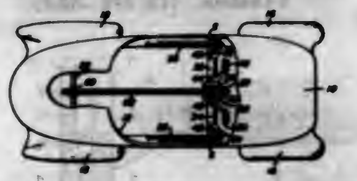
1. In a spring suspension of the kind described that includes two leaf springs arranged in spaced apart and aligned relation, an axle suspension mounted at the medial part of each spring, a first bracket, a rockable member mounted on the first bracket and disposed to be engaged by the adjacent ends of said springs, a second bracket engaged by the remote end of one spring, a third bracket engaged by the remote end of the other spring, a torque arm extended between one of the axle suspensions and the first bracket, and means for adjustably connecting said torque arm to said one axle suspension and the first bracket, the last-named means comprising an expandable eccentric bushing mounted for rotation in at least a selected one of the said first bracket and the said one axle suspension, a bearing sleeve at the end of said torque arm corresponding to said eccentric bushing, said bushing being expandably fitted into said bearing sleeve, and means to hold the bushing in an expanded relation against the bearing sleeve.

2,653,836
SWINGABLE VEHICLE STEP
James E. Creel, Warrior, and William E. Russell, Birmingham, Ala.
Application August 1, 1951, Serial No. 239,712
5 Claims. (Cl. 280—166)



1. A vehicle step comprising a pair of horizontally spaced brackets extending inwardly under the vehicle, side members pivotally mounted on the brackets by means of a slot and pivot pin connection, there being a pair of similarly spaced notches in the upper periphery of each bracket positioned substantially equidistant from the pivot pin, a detent carried by each side member in position to lie in selected notches and hold the side members selectively in retracted or extended position, means carried by the side members biasing the detents into engagement with selected notches and a step member carried by and connecting the lower ends of said side members.

2,653,837
TOY VEHICLE, INCLUDING FOOT OPERATED RATCHET DRIVE MECHANISM
Jerry B. Lassiter, Windsor, Vt.
Application May 8, 1950, Serial No. 160,760
1 Claim. (Cl. 280—253)



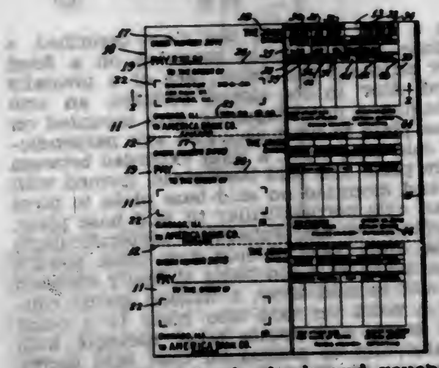
In a toy vehicle including a body having forward and rear wheel supporting axles, means operatively connected to the rear axle for rotating the same, said means comprising a shaft rotatably supported on the body and paralleling the rear axle, a drive sprocket fixed to the center of the shaft and operatively connected to the rear axle, a clutch ring fixed to each side of the sprocket, a pair of sleeves slidably and rotatably positioned on the shaft and disposed on opposite sides of the sprocket, said sleeves each having an inner end and an outer end, a clutch member fixed to the inner end of each sleeve, a pair of foot pedals having shank portions fixed to the inner ends of the sleeve and diverging relative to each other as they extend from the sleeves, coil springs on the ends of the shaft engaging the outer ends of the sleeves and urging the sleeves toward the sprocket and the clutch members into engagement with the clutch rings, rigid arms fixed to and projecting outwardly from the outer ends of the sleeves, elongated spring members having forward ends attached to the arms and rear ends attached to the body to urge the pedals to be raised, and stops fixed to the body against which the arms are urged by said spring members.

2,653,838
CONTAINER
Lyman L. Dyer, Dallas, Tex.
Application April 26, 1952, Serial No. 284,591
5 Claims. (Cl. 231—44)



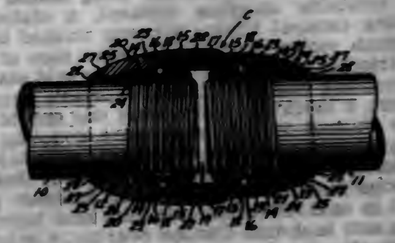
1. A carrying and writing container including: a body having a front wall, a back wall, side walls, a fixed bottom end wall and a removable top end closure plate; said front wall having an external flat writing and rest surface formed thereon and having an aperture formed therein communicating with the interior of the body and disposed adjacent the top end of said body; there being a space between the end closure plate and the front wall of the body, and an opening between said closure plate and the back wall of the body, said space and opening each being co-extensive with such body wall to permit insertion and removal of flat rectangular cards through said space; an upward extension on said back wall projecting beyond the side walls and the top end closure plate and having an opening therein, said opening being substantially T-shaped and having a grip portion extending transversely of the back wall and above the upper surface of the top end closure plate, said opening also having a downward extension disposed substantially opposite the upper portion of the aperture in the front wall.

2,653,839
VOUCHER CHECK
William R. Walkman, South Bend, Ind.
Application March 2, 1950, Serial No. 147,277
2 Claims. (Cl. 282—27)



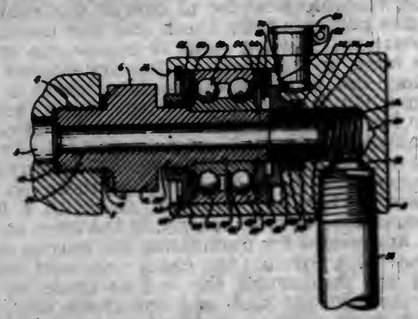
1. A combined bank check and voucher and record keeping device comprising: an imprinted check of a predetermined area with designations on one of its side portions for insertion of the name of the payee and the amount to be paid, a voucher stub extending sidewise from and detachable from the end of the opposite side of the check, foldable sidewise to overlie the contiguous side portion of the check and terminating in its overlying position so as to expose the insertions made on the check on the first named side portion and provided on its face which is exposed when it is folded over the check, with a form for entries of statistical data relating to the payment, a record sheet of substantially the same area as and provided with the designations corresponding to and underlying those on the exposed portion of the check, and with a form corresponding to and underlying the form on the stub, and means for duplicating the entries made on the check through the check onto said record sheet and duplicating the entries made on the stub through the stub and the check onto the record sheet without duplicating on the check the entries made on the stub.

2,653,840
PIPE COUPLING
Bernardino F. Galluppi, New York, N. Y., assignor to Barker, Smith and Company, New York, N. Y., a corporation of Delaware
Application December 15, 1949, Serial No. 133,167
4 Claims. (Cl. 285—90)



1. A coupling for connecting pipes in end-to-end relation comprising a pair of spaced apart circumferential abutments forming a groove therebetween adjacent the end of each pipe to be coupled, a resilient gasket of substantially circular cross-section encircling each pipe end and bedded in said groove and protruding radially therefrom, the largest diameter of the abutments being approximately equal to the diameter of the axial center line of the cross-section of the gasket, a collar member encircling and of greater internal diameter than the adjacent ends of said pipes and said abutments and having inwardly extending shoulders adjacent to its ends engaging the outer lateral sides of the protruding portions of said gaskets, said collar outwardly of said gaskets being spaced radially from said pipes and abutments, and a sleeve within said collar member and spanning the ends of said pipes and the inner abutments between said gaskets, said sleeve having its opposite ends engaging the inner lateral sides of the protruding portions of said gaskets, the sleeve also being spaced radially from the ends of the pipes substantial distances, the lengths of said collar member and sleeve being such as to hold said pipes in end-to-end relation and each gasket clamped against said abutment and between the ends of the sleeve and the corresponding shoulder on the collar member, the radial spacing between the collar, sleeve, pipes and abutments thereon being sufficient to enable substantial relative angular movement of said pipes and the coupling.

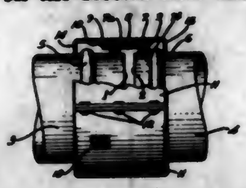
2,653,041
FLUID TIGHT ROTARY COUPLING
John Hart Wilson, Wichita Falls, Tex.
Application August 22, 1949, Serial No. 111,614
1 Claim. (Cl. 285—97.3)



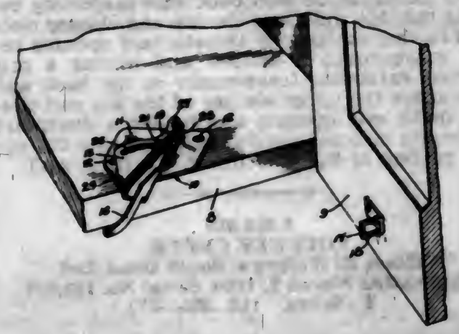
In a rotary type coupling for connecting an axial opening formed in a rotating shaft with a source of fluid pressure, which pressure is to be conveyed to said axial opening in said shaft while said shaft is rotating, the combination of a rotatable coupling having an axial bore formed therein adapted to be attached to said shaft in fluid-tight relation thereto with said bore in communication with said axial opening in said shaft, an anti-friction bearing having inner and outer races, the inner race thereof being seated upon said rotatable coupling element, a stationary coupling element having a recess formed therein, which recess receives the outer race of said anti-friction bearing for journaling said stationary coupling element on said rotatable coupling element, a lubricant seal closing one end of said recess formed in said stationary coupling element, a lubricant fitting connecting with said recess formed in said stationary coupling element, a porous metallic annular filter member positioned in said recess intermediate said lubricant fitting and said anti-friction bearing, a graphite sealing element having an axial bore formed therethrough, which sealing element is in interfitting bearing relation with the inner diameter of said porous metallic annular filter so as to direct lubricant through said porous metallic annular filter to said bearing between said annular filter and said sealing element, resilient means for urging said graphite sealing element into end to end sealing engagement with said rotatable coupling element so as to couple the axial opening in said graphite sealing element with the axial opening in said rotatable coupling element, conduit means connecting said source of fluid pressure with said recess in said stationary coupling element for passage of fluid therethrough and an O-ring sealing element positioned within said recess in said stationary coupling element so as to be in contact sealing relation with the inner diameter of said recess formed in said stationary coupling element, a surface of said annular porous metallic filter member and the outer diameter of said graphite sealing element.

2,653,042
DEMOUNTABLE DUCT SEAL
George R. Aldrich, Paramount, and Kenneth R. Bragg, Manhattan Beach, Calif., assignors to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application January 30, 1950, Serial No. 141,226
5 Claims. (Cl. 285—129)

1. A demountable duct seal across adjacent, aligned and spaced ends of first and second duct elements comprising an annular seal of elastic material having a U-shaped section with the legs of the U converging inwardly, the end of one of said legs contacting and making a seal against the outer periphery of the first of said duct elements, the other of said legs contacting and making a seal against the periphery of the second of said duct elements, an external raised annular and concentric rib on the first of said duct elements positioned to prevent axial movement of said seal in a direction and extent destroying the leg seal on the second duct element, a second external raised annular and concentric rib on said second of said duct elements and positioned to permit axial movement of said seal in a direction and to an extent destroying the leg seal on said first duct element, whereby the duct elements can be disassembled by lateral movements thereof only, and means mounted on said duct elements surrounding said annular seal having position members thereon extending inwardly to engage said seal to prevent axial movement of said seal along said second duct element in a direction and by an amount sufficient to destroy the leg seal on said first duct element.

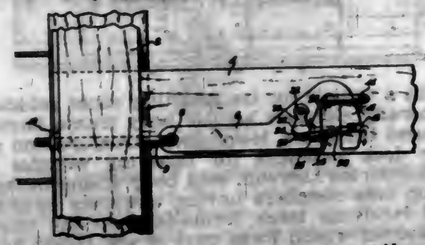


2,653,043
DOOR CLOSER
Boyd N. Carlson, El Monte, Calif.
Application March 19, 1951, Serial No. 216,437
2 Claims. (Cl. 292—78)



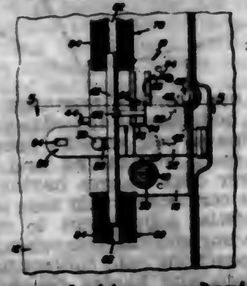
1. In a door closer of the class described, a base plate adapted to be mounted on a fixed member adjacent the inner face of a pivotally mounted door in its closed position, an arm plate having a door-engaging arm mounted on said base plate to pivot about an axis perpendicular to said base plate, a lever extended between said arm plate and said base plate, formed with a slot, and mounted on said base plate to pivot about an axis perpendicular to said base plate, a pin affixed to and extending perpendicularly from the lower face of said arm plate toward said base plate, said pin being slidingly enclosed in said slot in said lever, a tension spring connecting a point on said arm plate to a point on said lever, said points being movable with said plates and so positioned that said spring moves across the line of centers of the pivotal axes of said arm plate and lever upon their pivotal movement in opposite directions, the tension of said spring being adapted to effect relative pivotal movement between said arm plate and said lever upon being moved across said line of centers.

2,653,044
GATE FASTENER
Reginald J. Vickers, The Plains, Va.
Application January 24, 1952, Serial No. 268,007
8 Claims. (Cl. 292—108)



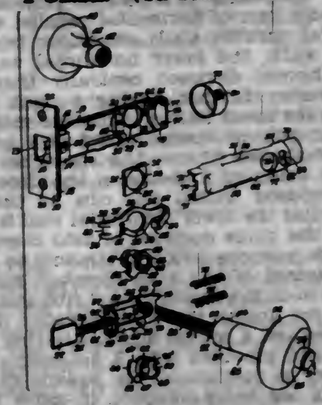
1. A fastener comprising; a body portion having a first notch in one side thereof, an opening through said body spaced from said notch, a second notch in said body extending from an edge thereof between said first notch and said opening and of a depth to extend a sufficient distance across a line from said first notch to said opening to accommodate a latch element between said line and the bottom of said second notch, said first and second notches opening in directions at substantially right angles to each other, a closed loop member extending through said opening and being moveable therein in a direction toward and from said first notch, the extent of movement of said loop in said opening being at least equal to the depth of said first notch and the dimensions of said loop being such that a portion thereof may move into and out of said first notch when said loop extends across said second notch, a shoulder on said body defining a portion of said opening facing away from said first notch and so positioned that the said loop may be moved to engage said shoulder when said portion thereof is in said first notch.

2,653,045
ELECTRIC DOOR LOCK
William Pinderhughes, Baltimore, Md.
Application April 25, 1950, Serial No. 157,959
3 Claims. (Cl. 292—169)



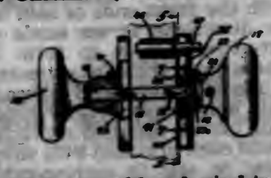
2. In a door locking mechanism having a mounting plate, a latch bar slidably mounted on said plate, a spring biasing said latch bar in one direction and manually operable means for retracting said bar in opposition to said spring, a lock comprising a rod slidably mounted transverse to said latch bar, electromagnetic means operative to reciprocate said rod, an arm rigidly mounted on said rod intermediate the ends thereof, a T-slot guide arranged in lateral extending relation to said latch bar, a latch member rigidly secured on said arm and slidably received in said T-slot, a lateral projection on said latch bar, said rod being operable to move said latch member into and out of the path of travel of said projection.

2,653,046
TUBULAR LATCH CASING
Andrew Erikila, Fitchburg, Mass., assignor to Independent Lock Company, Fitchburg, Mass., a corporation of Massachusetts
Original application February 7, 1946, Serial No. 646,919, now Patent No. 2,496,268, dated October 25, 1949. Divided and this application June 1, 1949, Serial No. 96,583
1 Claim. (Cl. 292—337)



In a casing for a tubular lock comprising a pair of complementary, parti-tubular sheet metal segments joined to each other in longitudinal edge contact, a latch bolt projectible through one end of the casing, said latch bolt having a shank inwardly guided within said casing, the combination therewith of an end plate on which said segments are supported, said end plate comprising a pair of sheet metal members comprising a face member and a back member, each having bolt apertures in alignment, the bolt aperture of the back member being outlined by struck-up webs integral with the back member defining a bolt guide having side and upper and lower bearing surfaces for the shank of the bolt, a tongue outwardly struck up from each of said side webs, each of said casing segments having a slotted edge engaging said web and tongue to envelope and lock the casing segment to the web and in abutting contact with said back member.

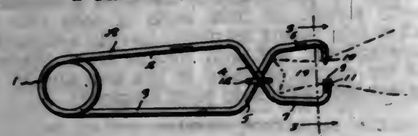
2,653,047
SELF-RELEASING LOCK CONTROL
Max Sultan, Brooklyn, N. Y.
Application September 16, 1950, Serial No. 185,241
2 Claims. (Cl. 292—359)



1. A door latch assembly adapted to be latched from the inside by means of a press-pin and unlatched from the inside by rotation of the inside doorknob, comprising a shaft having a square

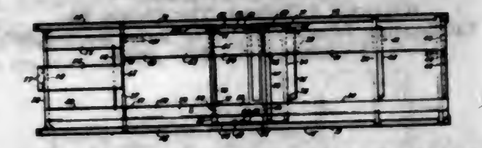
portion and a round portion, said round portion having a pin permanently secured therein, a sleeve piece having an orifice therethrough and having a circular flange head and a threaded tubular portion secured to said flange head, said flange head having a slot depending from the orifice of said sleeve piece and a cam disposed above said slot and secured to that flange face which is opposed to the threaded portion of said sleeve piece, said cam being a segment of an annulus having radial edges converging to the center of said sleeve piece, a closure plate having an orifice therein adapted to receive the threaded portion of the said sleeve piece, and having parallel spaced-apart ribs therein, said guide ribs having oppositely and inwardly disposed guide portions, a vertical slide member adapted to slide between the ribs of the closure plate, said slide member consisting of a pair of vertical parallel walls and a pair of horizontal parallel walls, said horizontal parallel walls extending beyond said vertical walls, the lower horizontal wall having a slot therein disposed centrally thereof, said slide member further having a back plate secured to the lower half of said slide member and having a pair of spaced-apart legs having inverted V-shaped apices, the space between the said legs being of a U-shape, the slide member being disposed within the ribs of the closure plate so that the lower horizontal wall is disposed beneath the guide portions of said closure plate, said guide portions being abutments to limit the upward travel of the slide member, means disposed between the spaced-apart ribs and the slide member for urging said slide member in an upward direction, a square member having a square opening and provided with a depending leg disposed over a portion of the square shaft, said depending leg being adapted to move into and out of the slot in the lower horizontal wall of said slide member, a channelled retaining plate having a press-pin therein adapted to retain the slide member in place, said press-pin having a depending slot therein adapted to engage the top vertical wall of said slide member, said press-pin being normally outwardly urged by means of a spring associated therewith.

2,653,048
FISH HOLDER
Daniel A. Novak, Calmar, Iowa
Application February 13, 1950, Serial No. 143,873
1 Claim. (Cl. 294—99)



A fish holder of the character specified, constructed from a single continuous piece of steel wire first bent intermediate its ends to form a coil, and then extended forwardly to form a pair of corresponding straight outwardly diverging handles, with the front ends of said handles bent in opposite directions at an angle of approximately forty-five degrees to form intersecting portions whose outer ends are extended forwardly to provide oppositely disposed outwardly diverging jaws, said jaws formed with V-shaped notches extending in planes disposed at right angles to each other and each provided with pairs of beveled teeth adapted to seat in corresponding notches of the opposing jaw when the jaws are closed, and a ring encircling said intersecting portions to prevent lateral displacement or spreading of the handles and jaws.

2,653,049
AUTOMOBILE TRANSPORTING VEHICLE WITH ADJUSTABLE TRACK
Donald Mettetal, Jr., Chicago, Ill., assignor to Truck Service, Inc., Chicago, Ill., a corporation of Illinois
Application December 22, 1950, Serial No. 202,289
13 Claims. (Cl. 296—1)



1. In a vehicle for transporting other vehicles, a generally elongate vehicle body frame having arranged thereon a lower deck structure and an upper deck structure for receiving vehicles to be transported thereon, said body frame including top side members having upwardly opening wheel receiving track formations on the upper side thereof which form part of the upper deck structure, laterally fixed horizontally extending wheel receiving track forming members arranged adjacent one of said upper side frame members, laterally movable track forming members arranged between said fixed track forming members and the other one of said upper side frame members and means for selectively positioning said movable track forming members relative to said top side frame members and said fixed track forming members whereby either a single line of vehicles of normal width may be supported on the fixed and movable track forming members or a double line of vehicles of less than normal width may be supported on the top side frame members and the movable track forming members.

2,653,050
REARVIEW WINDOW PROTECTOR
William N. Ashcraft, Ardmore, Okla.
Application August 25, 1950, Serial No. 181,441
1 Claim. (Cl. 296—95)



A visor for use over the rear view window of an automobile body having top edge gutters, said visor comprising a pair of side panel sections having inner ends confronting and depending upper and lower edge flanges having apertures therein, means connecting said side sections together for endwise adjustment to extend and contract said visor endwise comprising a central panel section overlying said confronting ends of said side sections and having depending upper and lower flanges overlying the first named flanges and provided with apertures therein, fasteners selectively insertable through said apertures to secure said sections together in different adjusted positions of said side sections, and means for securing the visor to said body comprising a fastening strip extending longitudinally under said sections at the upper edges thereof and fixed to said side sections, said strip terminating in hooks engaged with said gutters, and a support for said central section depending from the lower edge thereof and engaged with said top.

2,653,051
THERMOSTATIC SNAP DISK RELAY
George C. Armstrong, Buffalo, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 3, 1949, Serial No. 114,849
5 Claims. (Cl. 297—15)

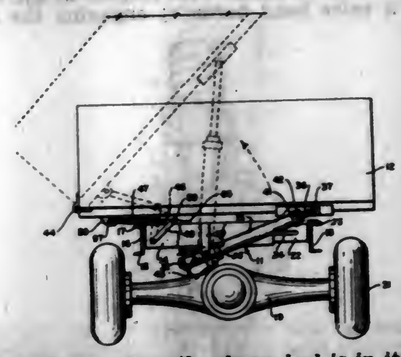


1. The method of assembling and calibrating a thermostatic snap disc within an appertaining retainer, which comprises placing the disc in the retainer, passing a calibrating tension member through aligned center holes of retainer and disc, securing said disc and retainer between the ends of said tension member, placing the assembled parts in a heated liquid and heating the assembled parts to the temperature at which the disc is to snap, and shortening said tension member at said temperature until the disc snaps.

4. A calibrated snap-acting thermostatic device comprising, a cup-shaped support having an outwardly curved end plate, a curved disc bimetallic element disposed in said support, the concave face of said disc confronting the concave face of said end plate, means connected to said support loosely engaging the peripheral edge of said disc to prevent appreciable axial displacement of said disc relative to said support, said end plate having a hole therethrough substantially centrally thereof, said disc having a hole therethrough substantially centrally thereof coaxially disposed of said hole in said end plate and of smaller diameter, a calibrating tension member having a head and a shank, said shank comprising two different diameter sections separated by a shoulder, a larger section adjacent said head and a smaller section extending from said larger section, said tension member fitting through said holes, said head engaging the convex outer face of said end plate, said larger section extending through said hole in said end plate, said smaller section extending through said hole in said disc, the shoulder on said shank being spaced from said disc, a rivet head on the end of said smaller section engaging the convex face of said disc, said rivet head occupying a position axially of said tension member in which said disc is deflected toward said end plate, said axial position being determined by heating said bimetallic disc to an operating temperature and deflecting said disc by said rivet head on said tension member until the curvature of said disc reverses.

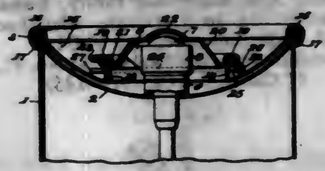
2,653,052
DUMP HOIST
Dale M. Van Pelt and Leighton W. Sanner, Loveland, and Julian Wilson, Ault, Colo., assignors to Northern Weld Mfg. Co., a partnership
Application June 30, 1950, Serial No. 171,426
2 Claims. (Cl. 296—18)

1. A hoist unit for use on vehicles having pivotally mounted dump beds comprising a hydraulic cylinder pivotally mounted on the frame of said vehicle at approximately the center line of said body and interconnected with the dump bed at a position beyond the pivotal cylinder mounting and away from said hinge, a bracket mounted on said dump bed adjacent said hinge, a stop member secured to said frame, and an adjustable link attached to said bracket for engagement



with said stop when the dump bed is in its lowered position so that initial thrust forces exerted by said hydraulic cylinder will act against the said stop on the frame thereby preventing binding and damage of said hinge.

2,653,053
PROTECTOR FOR A DISPENSING DEVICE FOR LIQUID PRODUCTS RETAINED UNDER PRESSURE IN A CONTAINER
John Henchert, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application July 13, 1950, Serial No. 173,646
1 Claim. (Cl. 299—95)



A dispensing device for liquid products retained under pressure in a container comprising a valve body, a dispensing nozzle carried thereby, a valve, a flexible disk forming a wall of the valve body, devices within the valve body operated by pressure applied to the disk for opening the valve, and a protective means permanently secured to said container and covering said disk to prevent accidental pressure thereon, said protective means including a member conforming in shape to the outer face of the container end and permanently attached to the end seam, said member having a central opening surrounded by an upstanding neck within which is disposed said valve body and flexible disk and a cover member pivotally attached to said neck and overlying the disk for giving access thereto for dispensing purposes.

2,653,054
DUPLEX NOZZLE
William J. Purchas, Jr., and Edward Orcutt, Grand Rapids, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 14, 1949, Serial No. 132,864
5 Claims. (Cl. 299—118)

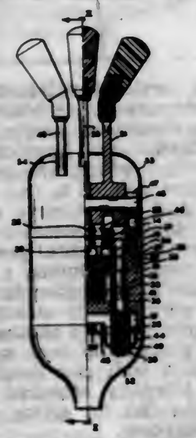
1. A fuel spray nozzle comprising, in combination, a body, a fuel inlet thereto, a spray tip

therein, the body defining two passages therein extending from the inlet to the spray tip, a portion of one of the passages constituting a valve chamber, a valve seat at the inlet end of the chamber, a spring abutment facing the valve seat and located off center with respect to the valve seat, a valve head normally engaging the seat,



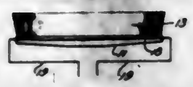
and a helical compression spring disposed between the abutment and the valve head and concentric with the abutment and the head, the off-center location of the abutment causing the head to seat off-center on the valve seat, the wall of the chamber cooperating with the edge of the valve head to limit the eccentricity of the seating thereof.

2,653,855
DISPENSING AND MIXING VALVE
Frank Welty and Raymond Welty, Youngstown, Ohio, assignors to Carbonic Dispenser, Inc., Canfield, Ohio, a corporation of Ohio
Application June 6, 1949, Serial No. 97,409
17 Claims. (Cl. 299—145)



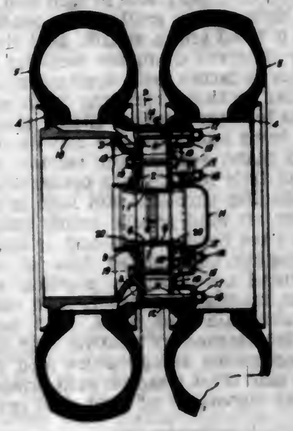
1. In a valve assembly for mixing and dispensing carbonated beverages, the combination of a valve body having a first inlet for carbonated water and a second inlet for flavoring syrup, a valve tube secured to and depending from said body and being in communication with said second inlet, a valve rod extending vertically through said tube and carrying a valve member at its lower end adapted to engage the lower end surface of said tube, a water valve in said body communicating with said first inlet, an enlarged surge chamber in the lower portion of said body and surrounding a portion of said tube, said chamber having an opening in its bottom wall disposed about said tube, and means in said body providing a restricted passage between the outlet of said water valve and said surge chamber.

2,653,856
METHOD OF MAKING BROOMS
Bruno Montero, Los Angeles, and Raymond J. Palmer, Long Beach, Calif., assignors to Medgin Company, Inc., Los Angeles, Calif., a corporation of California
Application December 20, 1948, Serial No. 66,216
3 Claims. (Cl. 300—21)



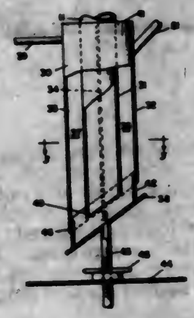
1. A method of securing a tuft of thermoplastic bristles to an element having a cavity therein, said thermoplastic bristles becoming plastic at a temperature lower than that required to alter the physical structure of said element, including the steps of: placing an electrical conductor in said cavity; placing an end of said tuft in said cavity; and electrically heating said conductor to elevate the temperature of said end of said tuft to a value at least equal to that at which those portions of said thermoplastic bristles which form said end of said tuft become plastic, whereby to bond said bristle portions together and to secure said end of said tuft in said cavity.

2,653,857
WELDED PRESSED STEEL DUAL WHEEL
Donald W. Sherman, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application September 6, 1947, Serial No. 772,532
5 Claims. (Cl. 301—13)



1. In a welded pressed dual wheel assembly for trucks and trailers and the like, a pair of pressed metal discs formed complementary to each other with said discs being axially spaced apart for the greater portions thereof, an inwardly directed flange formed on each disc at the inner end thereof with the flange of one disc butt welded to the flange of the other disc to provide a hub section of the wheel assembly and each disc having an irregular complementary periphery at the outer circumference to provide an interrupted circular supporting surface, and a plurality of complementary pressed metal members welded to the outer periphery of said discs and extending along the entire periphery of the discs to close the outer circumference of the wheel and provide a bearing surface for tire rims for accurately centering the same with respect to the center of the wheel without machining.

2,653,858
ELEVATION OF GRANULAR SOLIDS
Frank W. Bowen, Toledo, Ohio, assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application October 18, 1951, Serial No. 251,975
7 Claims. (Cl. 302—57)



1. Apparatus for elevating granular solids which comprises: a lift conduit having the bottom of its wall at a lower level on a "low side" thereof than on the opposite side, or "high side," thereof; a housing surrounding and spaced from a lowermost portion of said lift conduit and providing an engaging area beneath and communicating with the lift conduit inlet and providing a lifting gas supply area adjacent and outside said lowermost portion of said lift conduit on the low side thereof and a granular solid supply area adjacent and outside said lowermost portion of said lift conduit on the high side thereof, both of the supply areas communicating with said engaging area; means for introducing lifting gas into said lifting gas supply area and thence into said engaging area; and means for introducing granular solids into said granular solids supply area and thence into said engaging area.

2,653,859
WEDGE FOR TOOLS HAVING WOODEN HANDLES
Frank Neeney, Rome, Nev.
Application May 27, 1950, Serial No. 164,624
2 Claims. (Cl. 300—33)

1. In a tool, a tool head having a socket therethrough and an aperture in a side wall of said socket, a wooden handle seated in said socket and projecting from one end thereof, a wedge member driven into said handle within said socket and toward said one end of said socket and having an aperture therethrough disposed closer to said one end of said socket than said aperture in said side wall of said socket, and a pin driven into said handle through said apertures, said pin having an intermediate surface portion engaging the wall portion of said aperture in said wedge member closest to said one end of said socket and so inclined as to cam said wedge member toward said one end of said socket as said pin is driven into said handle, and said pin having a tapered terminal end portion in engagement with an internal surface portion of said tool head socket and bent toward said one end of said socket and back toward said wedge member to define a reentrant hook preventing reverse movement of



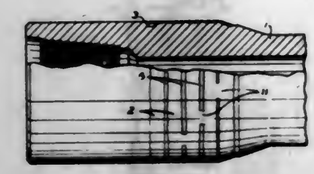
said pin out of said handle and maintaining camming engagement between said intermediate surface portion of said pin and said wall portion of said aperture in said wedge member.

2,653,860
TOOL HANDLE CONNECTION
Louis Rubenstein, Kansas City, Mo.
Application May 29, 1951, Serial No. 228,383
1 Claim. (Cl. 300—42)



A tool head adapted to receive various kinds of tools, said head having a frusto conically shaped chamber therein on the axis of the head, a handle member carried by the head on the axis thereof and at the inner side of the head, the inner narrow end of the frusto conically shaped chamber being disposed adjacent the handle and the wide end of the frusto conically shaped chamber at the outer end of the head, opposite sides of said head being flat and in parallel relation, the inner ends of detachable tools engaging said flat portions of the head, interengaging rib and groove connections between the tools and the head, round lugs carried by the tools and extending inwardly through the head and through apertures in the head and terminating within the frusto conically shaped chamber of the head intermediate the ends of the head, opposite shoulders carried by the inner ends of the lugs within the chamber of the head, a wedge block within the chamber of the head and conforming to the shape of the chamber of the head, said wedge block having oppositely disposed longitudinal channels T-shaped in cross section and adapted to receive the flanges carried by opposite sides of the lugs, the outer sides of the channels forming wedge shaped flanges adapted to engage the inner sides of the lug flanges and draw the lugs inwardly towards the axis of the head and means carried by the handle and cooperating with the wedge block for drawing said wedge block inwardly into the chamber of the head.

2,653,061
WEAR RESISTANT TOOL JOINT
Russel W. Lewis, Lafayette, La., and Stanley C. Moore, Houston, Tex., assignors to Hughes Tool Company, Houston, Tex., a corporation of Delaware
Application July 15, 1948, Serial No. 38,826
3 Claims. (Cl. 308—4)



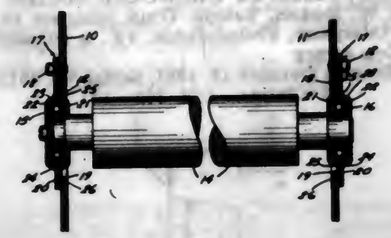
1. A wear resistant surface for tool joint members and the like comprising, circumferential grooves in the surface of the member, at least one axially extending groove transecting the lands between adjacent circumferential grooves, successive portions of said last mentioned groove being staggered peripherally about the member, and a quantity of wear resistant metal fused into each of said grooves and integrally engaging the bottom and side walls thereof.

2,653,062
BEARING
Ernest Sperisen, Sun Prairie, Wis., assignor to Giddelt Machine Company, Madison, Wis., a corporation of Wisconsin
Application December 19, 1949, Serial No. 133,900
2 Claims. (Cl. 308—73)



1. A bearing comprising an outer race and an inner race, a conical ring disposed between said races in bearing engagement therewith, said ring having a plurality of circumferentially spaced grooves extending substantially across the width of the inner and outer peripheral conical surfaces of the ring and adapted to admit lubricant from the inner ends of the grooves to the bearing surfaces between the ring and said races, and a substantially wide and shallow pocket extending outwardly from the trailing edge of each of the grooves and tapering radially outwardly from the edge of the corresponding groove to the corresponding inner or outer pheripheral surface of the ring to provide wedge shaped lubricant receiving receptacles between said races and said ring for delivery of lubricant to all contacting surfaces of the bearing, the side edges of the pockets being tapered to assist in the wedging action upon the lubricant as the ring rotates relative to said races.

2,653,063
RESILIENT BEARING MOUNTING
John P. Arndt, Oak Park, Joseph Hruby, Deerfield, and John J. Schulze, Prospect Heights, Ill., assignors to Charles Bruning Company, Inc., New York, N. Y., a corporation of New York
Application February 15, 1951, Serial No. 211,048
4 Claims. (Cl. 308—184)



1. A self-aligning bearing mounting for a rotatable member, such as a roll, comprising an anti-friction bearing, inner and outer plates having spaced flanges between which the sides of said bearing are loosely received, and a ring of resilient material compressed between said flanges and surrounding the circumference of said bearing for resiliently securing said bearing.

2,653,064
BALL BEARING
Lewis R. Heim, Fairfield, Conn., assignor to The Heim Company, Fairfield, Conn., a corporation of Connecticut
Application December 28, 1951, Serial No. 263,911
3 Claims. (Cl. 308—187)



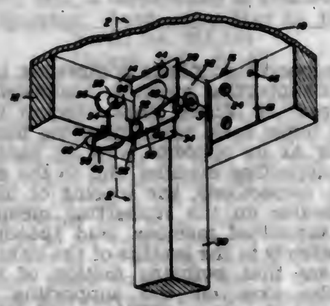
1. In bearing construction, in combination, an inner race member having a plurality of ball receiving grooves formed in the outer surface thereof, an outer race member having a spherical inner bearing surface, said outer race member comprising a pair of stamped sheet metal shells each including an outwardly extending portion, said portions being secured together to form a flange at the equator line of said outer race member, each of said shells having an inwardly extending flange at its outer side, an annular sealing washer disposed between said inner and outer races adjacent each of said inwardly directed flanges and in engagement with the outer surface of said inner race member, and a plurality of bearing balls in said groove and tracking therein and against said spherical inner bearing surface of said outer race member.

2,653,065
PISTON
Jay Clyde Appleton, Minneapolis, Minn.
Application August 22, 1949, Serial No. 111,679
3 Claims. (Cl. 309—7)



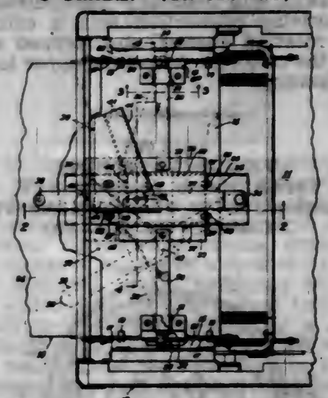
1. A piston for four cycle internal combustion engines, said piston having an internal bottom opening chamber, a plurality of spaced ring grooves cut in the peripheral wall thereof and lands formed between said ring grooves and above the uppermost ring groove, said piston having a plurality of passages running only from the top surface of the next-to-the-uppermost land intermediate the periphery of said land and the bottom of the uppermost groove into the chamber of the piston, rings fitting within said ring grooves, the uppermost ring having a limited vertical play within the uppermost groove and the lower surface of the uppermost ring cooperating as a valve with the upper ends of said passages at the top surface of the next-to-the-uppermost land to seal said passages during the power portion of the explosion stroke of the engine and during the compression and exhaust strokes, the said uppermost ring during the intake stroke and the spent portion of the explosion stroke moving away from the top surface of the next to the uppermost land, and means cooperatively associated with the uppermost ring and the uppermost land to afford communication between the cylinder above the piston and the upper ends of said passages when said uppermost ring is shifted into extreme upper position within its groove thereby preventing the pumping of oil into the head of the cylinder above the piston.

2,653,066
FOLDING TABLE LEG LOCK
Harry N. Anderson, Orleans, Vt.
Application October 14, 1952, Serial No. 314,688
3 Claims. (Cl. 311—99)



1. A table leg mount comprising a substantially channel shaped base member having spaced flanges and a web connecting said flanges, a mounting tongue struck from one of said flanges, said one of said flanges having a notched corner adapted to receive a pin fixed to a leg that is pivotally secured between said flanges, and a locking dog pivotally attached to the outer pair of said one of said flanges and having a notch in registry with the notched corner to receive a pin entering said notched corner, said dog being substantially L-shaped with the notch in one limb, a finger grip and abutment on the other limb of said dog adapted to underlie a coil spring recessed in the peripheral skirt of a table top, said other limb of said dog having a notched free end portion disposed in juxtaposition with said tongue, and a headed fastener extending through said tongue, the notch in said notched free end portion accommodating the head of said fastener.

2,653,067
TIGHTENING APPARATUS FOR TYPEWRITER MOUNTINGS
John H. Page, Muskegon, Mich., assignor to Shaw-Walker Company, Muskegon, Mich., a corporation of Michigan
Application August 29, 1951, Serial No. 244,226
5 Claims. (Cl. 312—28)



1. In a locking device for a supporting platform movable endwise into extended position relative to a fixed base and including a plurality of inwardly facing open hooks at opposite sides of said platform engageable with studs fixed on the base, the combination of a guide support slidably mounted centrally of the platform at its inner end, a pair of locking arms pivotally connected to opposite sides of said guide support, guide means for the outer ends of said locking arms fixed at opposite sides of said platform permitting simultaneous sliding lateral extension and rocking movement of said arms with the latter fulcrumed within said guide means, the outer ends of said locking arms being adapted for engagement with abutments on the fixed base when said locking arms are moved to extended position, a control lever pivotally mounted adjacent the inner end of said platform and having a free end extending into position for manual operation beyond said base when said platform is in extended position with respect to said base, said control lever having a cam member thereon, and a guide member carried on said guide support in engagement with said cam member to move the outer ends of said locking arms into locking engagement with said abutment means in a direction opposed to that in which said hooks are moved into engagement with said studs.

2,653,068
DISPENSER
Austin G. Goodnight, Laton, Calif.
Application June 8, 1950, Serial No. 166,909
2 Claims. (Cl. 312—72)

1. A dispensing apparatus comprising a base member; a pair of spaced, substantially parallel

cylinders rotatably mounted on the base; an endless conveyor having transverse corrugations mounted in circumscribing relation to the cylinders; a hood mounted on the base member in covering relation to the conveyor providing a discharge opening adjacent to a cylinder; a dispensing receptacle accessible from exteriorly of the hood mounted in registration with the discharge opening of the hood; a hopper mounted on



the base and positioned in feeding relation to the conveyor near the cylinder opposite to the discharge opening; an agitator rotatably mounted in the hopper; a cog having driven connection with the conveyor and driving connection with the agitator; and manually manipulable means having driving connection with a cylinder for stepped rotation thereof and stepped advancement of the conveyor from the hopper to the discharge opening.

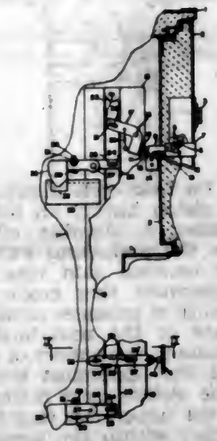
2,653,069
VENDING MACHINE
Ford S. Mason, Lockport, N. Y.
Application June 27, 1950, Serial No. 170,549
3 Claims. (Cl. 312—39)



1. A vending machine having a base forming a receptacle for coins, a pan supported within said base, a coin carrier oscillatable on said pan, and an article carrier arranged above said pan and coin carrier and having a plurality of pockets, in which articles are supported while resting on said pan, a stop extending upwardly from said pan and with which an edge of said coin carrier engages to limit the movement thereof, a portion of said edge in the path of movement of the articles by said article carrier sloping downwardly to form a sharp edge which can pass under an article to raise the same to facilitate passing the article over said stop, the remaining portion of said edge ending in an abrupt shoulder to contact said stop, whereby deformation of said sharp edge by contact with said stop is prevented.

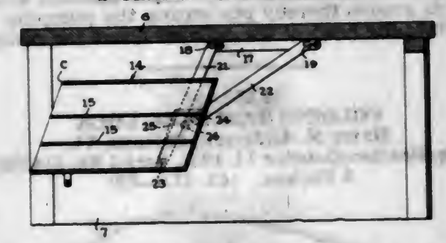
2,653,070
FILING CABINET LOCKING CONTROLS
Ralph E. McClellan, Toledo, Ohio, assignor to Mellink Steel Safe Company, Toledo, Ohio, a corporation of Ohio
Application February 27, 1951, Serial No. 213,020
17 Claims. (Cl. 312—218)

1. A housing having a plurality of openings, closures for said openings, a movable plunger mounted on a closure, a movable bar mounted in said housing extending adjacent said closures, individual closure latching devices mounted on said housing and a plurality thereof operated by the movement of said bar, abutment operated means mounted on said housing for moving said bar to latch said closure by abutment with



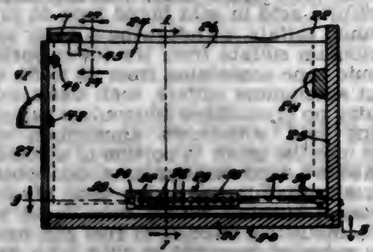
said plunger when said closure carrying said plunger is in closed position, and individual spring resistant closure operated slides mounted on said housing for preventing movement of said bar when the closures are unlatched and one of said closures is out of its closed position.

2,653,071
DISAPPEARING CABINET STRUCTURE
Carl Brynolf Lundstrom, Little Falls, N. Y., assignor to Lundstrom Laboratories, Inc., Herkimer, N. Y., a corporation of New York
Application March 22, 1949, Serial No. 82,713
2 Claims. (Cl. 312—325)



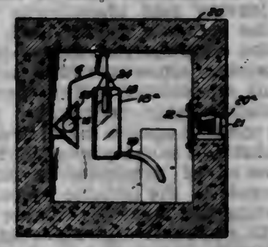
1. A supporting linkage comprising in combination, a supporting member; a supported member; a pair of hinged links unequal in length between hinge axes, each link being hinged substantially at its opposite ends on parallel axes to the supporting member and to the supported member, respectively, the spacing of hinge axes being greater on the supporting member than on the supported member, said spacings being such relatively to the lengths of the links between hinge axes that swinging motion of the links about the axes on the supporting member through arcs less than 180° is capable of causing pivot alinement between the supported member and respective ones of said links in opposite directions of swing and motion of the supported member in the direction in which the shorter link leads, if continued beyond pivot alinement causes the shorter link to reverse its swing; and a stop located on the supported member in position to engage one of said links and limit said reverse swing.

2,653,072
RETAINER BEARING DRAWER
Leon Press, Baltimore, Md.
Application June 1, 1950, Serial 165,469
1 Claim. (Cl. 312—339)



In combination, a housing, a drawer slidably mounted in said housing, a first pair of guides secured to opposite sides of the drawer and a second pair of guides secured to opposite sides of the housing, each of said guides being provided with a longitudinally extending groove, bearing assemblies positioned on opposite sides of said drawer in said grooves, each of said assemblies comprising a flat bar like carriage provided with front and rear sets of sockets, and a ball bearing positioned in each of said sockets, said front set of sockets tapering from the side of the carriage nearest the adjacent side wall of the drawer to the side of the carriage adjacent the housing side wall so that the ball bearings may be inserted in the front set of sockets in the side of the carriage adjacent the side wall of the drawer, said rear set of sockets tapering from the side of the carriage nearest the adjacent housing side wall to the side of the carriage adjacent the side wall of the drawer so that the ball bearings may be inserted in the rear set of sockets in the side of the carriage adjacent the housing side wall, the rearmost ball bearings in the rear set of sockets being positioned rearwardly of the rear edge of the drawer and the foremost ball bearings in the front set of sockets being positioned forwardly of the front edge of the housing when the drawer is fully open.

2,653,073
EXPLOSIVE FLASHLIGHT
George H. Messerly, Staten Island, N. Y., and Arthur W. Campbell, Santa Fe, N. Mex., assignors to the United States of America as represented by the Secretary of the Army
Application November 7, 1946, Serial No. 708,390
11 Claims. (Cl. 240—107)



8. In an apparatus for photographing the detonation characteristics of an explosive, camera means, means supporting a charge of said explosive in position to be photographed by said camera means, illuminating means comprising a second charge of explosive, a flask of light-transmitting material, means mounting said second charge within said flask in spaced relation with the inner walls thereof to provide a space-envelope thereabout adapted to be filled with a gas having positive luminous shock wave properties, means mounting said flask adjacent said explosive charge to be tested, and means operable to detonate said charges substantially simultaneously.

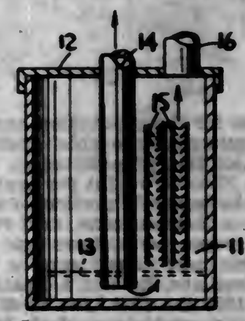
CHEMICAL

2,653,074
DYEING OF POLYACRYLONITRILE FIBERS
Robert H. Blaker, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 24, 1951, Serial No. 228,109
7 Claims. (Cl. 8—55)

1. A process for dyeing a fiber produced from a material from the class consisting of polyacrylonitrile and copolymers of acrylonitrile containing at least 40% acrylonitrile with a dye from the class consisting of an acid dye and a direct dye which comprises applying the dye in an aqueous medium having a pH of from 1.5 to 5 containing a copper salt in an amount sufficient to provide 0.25 to 3.0 weight percent of cuprous ion, and from 0.15 to 3.2 weight percent of hydroxylamine, both based on the weight of the material to be dyed, and carrying out the dyeing at temperatures of from 190° to 250° F.

2,653,075
METHOD OF DYEING FURS
Paul Peser, London, England
Application November 17, 1950, Serial No. 196,223
In Great Britain December 21, 1948
2 Claims. (Cl. 8—150.5)

1. The method of subjecting fur skins to the action of a fluid in a dyeing process which consists in arranging the skins in a stack, the flesh side of one skin abutting the flesh side of its adjacent skin and the fur side of one skin contacting the fur side of one of a pair of skins stacked flesh side to flesh side, sealing the mutually



presented flesh sides of each pair of skins in the stack by compressing the stack but, due to the fur, leaving a path for fluid flow between each pair of mutually presented fur sides, and introducing and forcing the fluid to flow along said path between the fur sides from one side of said stack to the other.

2,653,076

PREPARATION OF CARRIER-FREE RADIOACTIVE PHOSPHORUS VALUES

Waldo E. Cohn, Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission

No Drawing. Application October 7, 1946, Serial No. 701,625
14 Claims. (Cl. 23—1)

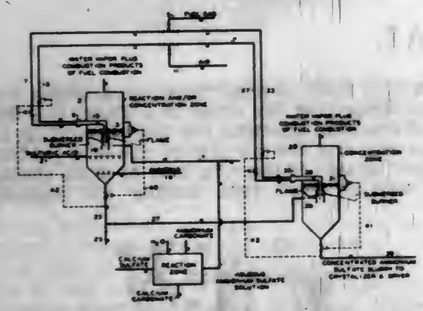
12. A process for the recovery of radioactive phosphorus values from a mass of neutron-irradiated sulfur inherently containing the same, which comprises contacting, by admixing, said mass of sulfur, in molten state, with aqueous nitric acid, cooling the resulting liquid admixture, thereby causing the bulk of molten sulfur to solidify leaving said phosphorus values dissolved in the aqueous nitric acid, thereupon separating the obtained radioactive-phosphorus-values-containing aqueous nitric acid solution from the bulk of solidified sulfur, thereafter carrier precipitating said radioactive phosphorus values from solution upon a metal hydroxide precipitate insoluble in said aqueous nitric acid solution, by means of precipitating an insoluble metal hydroxide in the obtained separated solution, separating the metal hydroxide precipitate together with radioactive phosphorus values resultingly carrier precipitated from solution thereupon, dissolving the separated precipitate and its associated radioactive phosphorus values in an aqueous inorganic acid, and eliminating from the resulting solution the cation of the metal hydroxide employed.

2,653,077

PRODUCTION AND RECOVERY OF AMMONIUM SULFATE

Robert S. Ogilvie, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application May 9, 1949, Serial No. 92,198
3 Claims. (Cl. 23—119)



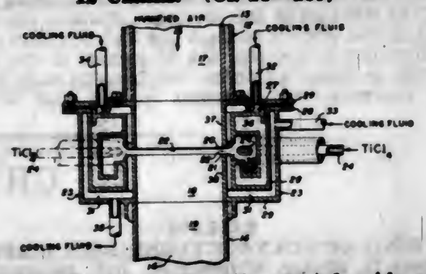
1. A process for the production and concentration of ammonium sulfate which comprises, passing a water solution of ammonium sulfate containing from 10 to 30 weight per cent ammonium sulfate into the upper ⅔ portion of a liquid zone contained in a reaction zone, said reaction zone containing a vapor zone above said liquid zone, burning within said liquid zone a combustible mixture of fuel gas, having a heating value of from 750 to 1250 B.t.u./ft.³ net at 60° F. and 760 mm. of mercury, and air, said air being present in said mixture in an amount not exceeding 25 volume per cent more than that required to completely combust said fuel gas, directly contacting said water solution of ammonium sulfate and resulting hot products of said burning in said liquid zone so as to evaporate water from said solution, withdrawing water vapor from said vapor zone, introducing gaseous ammonia having a purity of at least 90 weight per cent into the lower ⅓ portion of said liquid zone, introducing sulfuric acid having a purity of at least 90 weight per cent into the lower portion of the upper ⅔ portion of said liquid zone, reacting ammonia with sulfuric acid in said liquid zone to produce ammonium sulfate, withdrawing a water solution of ammonium sulfate from the lower portion of said liquid zone containing from 30 to 50 weight per cent ammonium sulfate, such water solution containing no crystallized ammonium sulfate, introducing said withdrawn ammonium sulfate solution into the upper ⅔ portion of a liquid zone contained in a concentration zone, said concentration zone containing a vapor zone above said liquid zone, burning within said liquid zone a second combustible mixture of fuel gas, having a heating value of from 750 to 1250 B.t.u./ft.³ net at 60° F. and 760 mm. of mercury, and air, directly contacting said last-mentioned ammonium sulfate solution and resulting hot products of said last-mentioned burning in the last said liquid zone so as to evaporate water, withdrawing water vapor from the upper portion of the last said vapor zone, and withdrawing an ammonium sulfate-water slurry from the bottom portion of the last said liquid zone containing from 75–80 weight per cent total ammonium sulfate.

2,653,078

METAL OXIDE PRODUCTION

Frank W. Lane, Elkton, Md., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

Application January 2, 1951, Serial No. 203,871
12 Claims. (Cl. 23—139)



1. A method for preventing metal oxide scale deposition and build-up upon the surfaces of inlets to a reactor employed in the vapor phase oxidation at temperatures above 700° C. of a volatile metal halide with an oxidizing gas which comprises during said oxidation flowing out of contact with the reactants a cooling fluid about said inlets to maintain them in cooled state and at a temperature substantially below said oxidation temperature but above the vaporization temperature of the halide reactant.

2,653,079

PROCESS FOR THE PREPARATION OF CHLORINE DIOXIDE

Ernst Wagner, Konstanz, Germany, assignor to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Frankfurt am Main, Germany, a corporation of Germany

No Drawing. Application June 6, 1949, Serial No. 97,477. In France June 10, 1948
3 Claims. (Cl. 23—152)

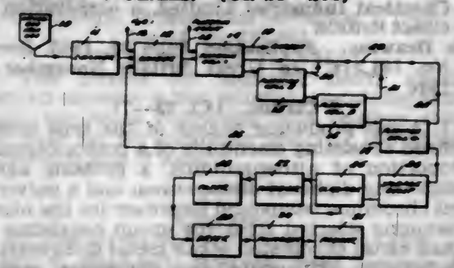
1. In a process for the production of chlorine dioxide from an acidified aqueous chlorate reaction solution containing sulfuric acid, a chlorate and a reducing agent, the step which comprises passing through said reaction solution a sufficient quantity of an inert gas which is initially unsaturated with water vapor to evaporate and entrain a quantity of water sufficient that the heat consumed by such evaporation is at least equal to all of the heat produced by the reactions occurring in the process and maintaining a reaction temperature between 75° C. and 90° C.

2,653,080

PROCESS FOR PRODUCING FERRIC OXIDE COMPOSITIONS OF POLISHING ROUGE GRADE AND THE PRODUCT THEREOF

Robert A. Stephens, Palmer Township, Northampton County, Pa., assignor, by mesne assignments, to C. K. Williams & Co., East St. Louis, Ill., a corporation of Delaware

Application January 6, 1948, Serial No. 901
7 Claims. (Cl. 23—200)



5. A rouge of glass-polishing grade derived by calcination of a material selected from the group consisting of bog iron ore and ferroso ferric oxide sludge, said rouge being composed of at least about 92% ferric oxide, the balance being composed mostly of complex forms of silica, alumina and iron aluminum silicates, derived from the material treated and containing not more than 0.15% residual carbon as an impurity, the said material having been altered as to its content substantially only by (1) calcining the material at a temperature between 500° and 900° C. and (2) removing residual carbon from the calcined product while leaving the inorganic components of the calcined product unchanged.

2,653,081

PROCESS FOR PRODUCING FERRIC OXIDE COMPOSITIONS OF POLISHING GRADE

Robert A. Stephens, Palmer Township, Northampton County, Pa., assignor, by mesne assignments, to C. K. Williams & Co., East St. Louis, Ill., a corporation of Delaware

No Drawing. Application January 6, 1948, Serial No. 902
5 Claims. (Cl. 23—200)

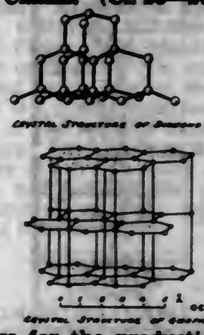
4. A process for producing a high grade polishing rouge which comprises calcining a mass consisting essentially only of ferroso-ferric oxide sludge which contains a small percentage of organic material and obtained by the reduction of organic compounds by iron in acid solution at a temperature between 500° and 900° C. which produces iron oxide of a structure having a high abrasive power and leaves free carbon therein together with the inorganic impurities of the sludge treated, grinding the impure oxide obtained, forming a slurry of the calcined oxide and subjecting the slurry to a flotation treatment and thereby reducing the carbon content of the calcined material to an amount not in excess of 0.15% whereby there is obtained an iron oxide product containing substantially only inorganic impurities from the crude oxide treated composed mostly of complex forms of silica, alumina and iron aluminum silicates.

2,653,082

PROCESS FOR PRODUCTION OF FINE GRAPHITE

Daniel Gardner, New York, N. Y.

Application August 17, 1949, Serial No. 110,895
8 Claims. (Cl. 23—209.1)



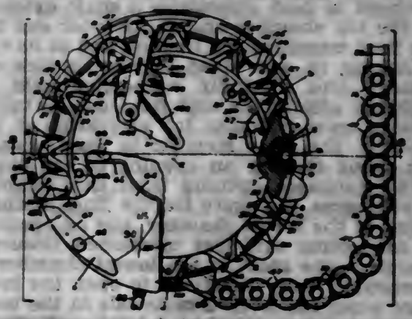
1. A process for the production of finely divided carbon resembling graphite which comprises mixing finely divided carbon with a carbide, introducing the mixture into a heating medium of non-reactive liquid, heating the mixture therein to a temperature of from 300° C. to 400° C. to convert the carbon particles into a finely divided product substitutable for graphite in forming high quality electrodes, and removing the said product from the heating medium and the carbide.

2,653,083

APPARATUS FOR AUTOMATICALLY MAKING BLOOD SUGAR SCREENING TESTS

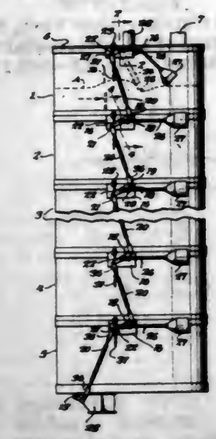
Arthur W. Wanner and Frederick E. Kalning, Quincy, Mass., assignors to Matheweon Machine Works, Inc., Quincy, Mass., a corporation of Massachusetts

Application December 6, 1951, Serial No. 260,148
7 Claims. (Cl. 23—253)



1. Apparatus of the class described comprising a rotatable carrier, test tube holders mounted on said carrier, means rotating said carrier with a step-by-step movement and a period of rest after each step, a plurality of tablet dispensers, means stationarily mounting said dispensers above the rotary carrier and at points having a less radial distance from the axis of the carrier than the tube holders, means actuated by a tube held in each tube holder as it approaches each tablet dispenser to dispense a tablet therefrom, and tablet guiding means carried by and rotatable with the rotary carrier to guide each tablet as it is dispensed from its dispenser into said tube.

2,653,084
CONTINUOUS COOKER
George Richard Greenbank, Piqua, Ohio, assignor to The French Oil Mill Machinery Company, Piqua, Ohio
Application May 4, 1949, Serial No. 91,260
4 Claims. (Cl. 23—290.5)



1. A vertical type, continuous cooker, comprising a plurality of successively superposed, heated cooking chambers, each chamber above the lowest having a discharge opening solely in its bottom leading to the next lower chamber, and the lowest chamber having a final discharge opening, the top chamber having an uncontrolled inlet leading thereto, a tube extending into each chamber below the top chamber, and rockably mounted, a closure fixed on said tube within the chamber and movable, when the tube rocks into and out of a position in which it closes the discharge opening from the chamber above it, a shaft passing through said tube, rockable in it, and having a float member fixed to its inner end and an arm on its outer end, an arm on the outer end of said tube, a link continuously and drivingly connecting each arm on a shaft with the arm on a tube in the next lower chamber for movement in both directions, a shaft extending into the top chamber and at its inner end having a float member fixed thereon and at its outer end having an arm fixed thereon, a link continuously and drivingly connecting said last mentioned arm to the arm fixed on the tube in the next lower chamber for movement in both directions, the float member in each chamber when rising causing an opening of the closure for the discharge opening from that chamber, and vice versa, a closure for the final discharge opening of the lowest chamber, and an operating link connecting said last mentioned closure to the arm on the shaft in the lowest chamber for movement in both directions to open the lowest closure when the level of materials in the lowest chamber is above a selected level and close it when that level is below said selected level.

2,653,085
ETCHING SOLUTION AND PROCESS
Richard H. Wynne, Jr., Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application August 9, 1952, Serial No. 303,610
6 Claims. (Cl. 41—42)

1. The process of preparing the surface of a body of germanium for use in a semiconductor device which comprises etching said surface in an aqueous solution of hydrofluoric acid, nitric acid, and silver nitrate, and then washing said etching solution from said surface.

2. The process of claim 1 wherein the proportions of ingredients present in 100 parts by weight of etching solution comprises a mixture of from 50% to 86% by weight of water and from 14% to 50% by weight of acids, the acids being present in ratios of HF to HNO_3 of from 6:1 to 1:16 by weight, and silver nitrate being dissolved in the solution in an amount of at least 1% of the weight of the aqueous acid solution.

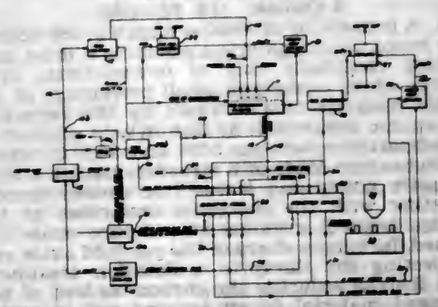
2,653,086
GAS-PRODUCING NONDETONATING COMPOSITION
James Taylor and Alexander Cantlay Hutchison, Saltcoats, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application June 24, 1949, Serial No. 101,272. In Great Britain November 8, 1946
2 Claims. (Cl. 52—7)

1. A gas-producing charge of the type herein defined consisting essentially of a preponderating proportion of nitroguanidine, a pressing agent comprising diphenyl diethyl urea, and a pulverulent chromium compound sensitizer for the nitroguanidine selected from the group consisting of alkali metal chromates, alkali metal dichromates, ammonium dichromate, and chromium sesquioxide.

2,653,087
METHOD FOR INDUCTION OF BUD FORMATION IN PLANT TISSUES
Folke Skoog, Madison, Wis., assignor to Wisconsin Alumni Research Foundation, Madison, Wis., a corporation of Wisconsin
No Drawing. Application January 26, 1950, Serial No. 140,755
10 Claims. (Cl. 71—2.4)

1. In a method for vegetative propagation of plants, the improvement which comprises inducing bud formation in plant tissue by culturing the tissue in a nutrient medium containing a soluble phosphate and between 1 mg./liter and 100 mg./liter of an amino-purine compound.

2,653,088
DIRECT PRODUCTION OF STEEL FROM OXIDES OF IRON
Robert D. Pike, Greenwich, Conn.
Application August 9, 1951, Serial No. 241,051
8 Claims. (Cl. 75—38)

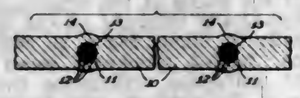


1. The process of reducing iron oxide without fusion combined with the making of steel from the reduced oxide, which comprises passing a hot reducing gas substantially free of hydrocarbon containing endothermic and exothermic components, the latter being CO, through the oxide at a temperature between 1650–2000° F. to reduce the greater part of it to metallic iron by gaseous reduction, cooling the oxide thus reduced with similar relatively cool reducing gas by the reaction $2CO=CO_2+C$, to deposit sufficient carbon for reducing the unreduced oxide; then completing cooling under non-oxidizing conditions, and substantially finishing the reduction of said oxide in a steelmaking step, with the production of steel.

2,653,089
RECOVERY OF HEAVY METALS
Jesse M. Brooke, Old Ocean, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application November 7, 1949, Serial No. 126,043
8 Claims. (Cl. 75—108)

1. The process for removing heavy metals from an aqueous saline solution containing same which comprises contacting said aqueous solution with an ion exchange material containing replaceable ions of iron.

2,653,090
GLASS STRAND REINFORCED PAPER
Henry C. Crandall, Mesinee, Wis., assignor to Mesinee Paper Mills Company, Mesinee, Wis., a corporation of Wisconsin
Application May 13, 1948, Serial No. 26,827
4 Claims. (Cl. 92—3)



1. A relatively flexible reinforced paper comprising a plurality of flexible spaced parallel glass yarn strands contained within and wholly covered by a surrounding matrix of an integrated felted web of paper fibers, the glass strands running in one direction substantially the length of the sheet in that direction and having a continuous thin coating of 5–30 weight percent thereof of a thermoplastic adhesive substance secured thereto and which coating secures the glass strands to the adjoining fibers of said web.

2,653,091
PHOTOGRAPHIC DIAZOTYPE COMPOSITION AND HEAT DEVELOPMENT THEREOF
Harold G. Greig, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
No Drawing. Application January 31, 1950, Serial No. 141,581
12 Claims. (Cl. 95—6)

1. In a process for reproducing images, the steps of: providing a stratum containing a light-sensitive diazonium compound stabilized with trichloracetic acid, exposing the stratum to actinic light distributed to correspond to the image to be reproduced for deactivating the illuminated stratum portions; and developing the image reproduction by heating the exposed stratum in the presence of a salt of said acid selected from the class consisting of sodium, potassium, ammonium, and mono-, di-, and triethanolamine salts and in the presence of an azo dye coupler to decompose the stabilizing trichloracetic acid and cause the production of the diazotype color.

2,653,092
PROCESS OF PURIFYING ALCOHOLIC LIQUOR
John B. Renier, South Bend, Ind.
No Drawing. Application April 4, 1951, Serial No. 219,328
1 Claim. (Cl. 99—48)

The method of treating raw whisky to reduce the fusel oil and acetic content thereof to an extent to render the whisky non-toxic and palatable, consisting of the steps of immersing a closed wooden container containing said raw whisky in a body of water in a free floating relation in said body of water, and heating said water to boiling temperature and maintaining said boiling temperature for at least 36 hours.

2,653,093
PUFFED ORGANIC MATERIAL AND METHOD OF MAKING SAME
John M. Baer, Chicago, Ill., assignor to Guardite Corporation, a corporation of Delaware
No Drawing. Application June 12, 1953, Serial No. 361,415
18 Claims. (Cl. 99—82)

1. The method of puffing cereals which comprises freeing a cereal from air and replacing the air with an atmosphere of steam, cooking the cereal for a period sufficient to soften the cell walls and adapt them for puffing, then subjecting the cereal to a sudden change from a high super-atmospheric pressure to a low sub-atmospheric within a secondary battery.

2,653,094
PUFFED FARINA AND METHOD OF MAKING SAME
John M. Baer, Chicago, Ill., assignor to Guardite Corporation, a corporation of Delaware
No Drawing. Application June 12, 1953, Serial No. 361,413
15 Claims. (Cl. 99—82)

1. The method of puffing farina which comprises freeing farina particles from air and replacing the air with an atmosphere of steam, cooking the farina particles for a period sufficient to soften the cell walls and adapt them for puffing, then subjecting the farina particles to a sudden change from a high super-atmospheric pressure to a low sub-atmospheric pressure whereby they are puffed.

2,653,095
PUFFED OATS AND METHOD OF MAKING SAME
John M. Baer, Chicago, Ill., assignor to Guardite Corporation, a corporation of Delaware
No Drawing. Application June 12, 1953, Serial No. 361,414
15 Claims. (Cl. 99—82)

1. The method of puffing oats which comprises: freeing oat grains from air and replacing the air with an atmosphere of steam, cooking the oat grains for a period sufficient to soften the cell walls and adapt them for puffing, then subjecting the oat grains to a sudden change from a high super-atmospheric pressure to a low sub-atmospheric pressure whereby they are puffed.

2,653,096
PUFFED WHEAT AND METHOD OF MAKING SAME
John M. Baer, Chicago, Ill., assignor to Guardite Corporation, a corporation of Delaware
No Drawing. Application June 12, 1953, Serial No. 361,411
15 Claims. (Cl. 99—82)

1. The method of puffing wheat which comprises: freeing wheat grains from air and replacing the air with an atmosphere of steam, cooking the wheat grains for a period sufficient to soften the cell walls and adapt them for puffing, then subjecting the wheat grains to a sudden change from a high super-atmospheric pressure to a low sub-atmospheric pressure whereby they are puffed.

2,653,097
PUFFED CORN AND METHOD OF MAKING SAME
John M. Baer, Chicago, Ill., assignor to Guardite Corporation, a corporation of Delaware
No Drawing. Application June 12, 1953, Serial No. 361,412
18 Claims. (Cl. 99—82)

1. The method of puffing corn grits which comprises freeing the corn grits from air and replacing the air with an atmosphere of steam, cooking the corn grits for a period sufficient to soften the cell walls and adapt them for puffing, then subjecting the corn grits to a sudden change from a high super-atmospheric pressure to a low sub-atmospheric pressure whereby they are puffed.

2,653,098
SELECTIVELY PUFFING GRANULAR MATERIAL AND THE RESULTING PRODUCT
John M. Baer, Chicago, Ill., assignor, by mesne assignments, to Coldset Foods Inc., a corporation of Delaware
No Drawing. Application July 28, 1952, Serial No. 301,383
6 Claims. (Cl. 99—82)

1. The process which comprises heating dough pellets having an original moisture content of the order of 12–22% in atmosphere at a temperature of the order of 350–400° F. until the surface temperature of the pellets has reached approximately 270–280° F. and then promptly shooting the pellets into a vacuum zone wherein they are puffed and cold set.

2,653,099
QUICK-COOKING CEREAL AND METHOD OF MAKING SAME
Charles R. Carman, Park Forest, and Jim E. Allison, Elmhurst, Ill., assignors to Guardite Corporation, a corporation of Delaware
No Drawing. Application July 2, 1953, Serial No. 366,046. In Canada March 5, 1951
6 Claims. (Cl. 99—82)

1. The method of producing a quick-cooking cereal, which comprises: removing the air from the cereal and substituting an atmosphere of steam under pressure; adding steam thereto at increased pressure and temperature to raise the moisture content thereof and cook the cereal; then instantaneously reducing the pressure well below atmospheric pressure to cause an explosion resulting in expansion of the cereal; and maintaining a reduced pressure sufficient to cold set the expanded cereal during the explosion and until cold setting of the cereal occurs, the pressure at the inception of the explosion and the extent of pressure reduction being correlated to produce an expanded quick-cooking cereal having for a period of about twenty minutes a hydration rate at least ⅓ greater than that of the original cereal after immersion in water at about 200° F.

2,653,100
PRECOOKED RICE
Charles R. Carman, Park Forest, and Jim E. Allison, Elmhurst, Ill., assignors to Guardite Corporation, a corporation of Delaware
No Drawing. Application July 17, 1952, Serial No. 299,496
10 Claims. (Cl. 99—82)

1. The method of producing a quick-cooking rice which comprises cooking the rice in an atmosphere of steam substantially free from air, the steam pressure being increased during the cooking and then, when the product has been substantially completely gelatinized, bringing the pressure to at least about 35 pounds gauge, and instantaneously reducing the pressure by shooting the product into a vacuum zone having an initial pressure close to zero inches of mercury absolute while continuing to evacuate the vacuum zone during the shooting and until cold setting of the product occurs to avoid any substantial pressure in the vacuum zone, the pressure at the time of shooting and the pressure in the vacuum zone being correlated to produce an increase in volume of from five-thirds to five-halves of the original volume of the rice.

10. A cold set vacuum-expanded quick-cooking rice product, said product being substantially gelatizined; characterized by a translucent milky-white appearance and a rough outer surface substantially free of case hardening and of substantially the shape of the original rice kernel but substantially enlarged in size to have a specific gravity of about 28.5% to 60% of the original rice; having numerous small cavities substantially uniformly distributed throughout the interior of the product, said cavities being generally rounded at their protuberances; and capable of absorbing water at a temperature of about 200° F. at an average rate of at least about 20% of the dry weight of the original rice per minute for a period of about 10 minutes after immersion in said water for about 4 minutes, the product being capable of ready hydration to individual kernels having the soft, palatable character of ordinary cooked rice.

2,653,101
QUICK-COOKING FARINA AND METHOD OF MAKING SAME
Charles R. Carman, Park Forest, and Jim E. Allison, Elmhurst, Ill., assignors to Guardite Corporation, a corporation of Delaware
No Drawing. Application June 12, 1953, Serial No. 361,421
4 Claims. (Cl. 99—82)

1. The method of treating farina which comprises: substantially removing the air from farina and substituting an atmosphere of steam under pressure; adding steam thereto at increased pressure and temperature to raise the moisture content thereof and cook the farina; then instantaneously reducing the pressure from at least 25 pounds per square inch gauge to well below atmospheric pressure to cause an explosion resulting in expansion of the farina; and maintaining a reduced pressure sufficient to cold set the expanded farina during the explosion and until cold setting of the farina occurs, the pressure at the inception of the explosion and the extent of pressure reduction being correlated to produce an expanded product having a specific gravity between about 40% and 66⅔% of the original farina.

2,653,102
QUICK-COOKING WHEAT AND METHOD OF MAKING SAME
Charles R. Carman, Park Forest, and Jim E. Allison, Elmhurst, Ill., assignors to Guardite Corporation, a corporation of Delaware
No Drawing. Application June 12, 1953, Serial No. 361,422
5 Claims. (Cl. 99—82)

1. The method of treating wheat which comprises: substantially removing the air from the wheat and substituting an atmosphere of steam under pressure; adding steam thereto at increased pressure and temperature to raise the moisture content thereof and cook the wheat; then instantaneously reducing the pressure from at least about 25 pounds per square inch gauge to well below atmospheric pressure to cause an explosion resulting in expansion of the wheat; and maintaining a reduced pressure sufficient to cold set the expanded wheat material during the explosion and until cold setting of the wheat occurs, the pressure at the inception of the explosion and the extent of pressure reduction being correlated to produce an expanded product having a specific gravity between about 28.5% and 60% of the original ground wheat.

2,653,103
QUICK-COOKING HOMINY AND METHOD OF MAKING SAME
Charles R. Carman, Park Forest, and Jim E. Allison, Elmhurst, Ill., assignors to Guardite Corporation, a corporation of Delaware
No Drawing. Application June 12, 1953, Serial No. 361,423
5 Claims. (Cl. 99—82)

1. The method of treating hominy which comprises substantially removing the air from the hominy and substituting an atmosphere of steam under pressure; adding steam thereto at increased pressure and temperature to raise the moisture content thereof and cook the hominy; then instantaneously reducing the pressure from at least about 25 pounds per square inch gauge to well below atmospheric pressure to cause an explosion resulting in expansion of the hominy; and maintaining a reduced pressure sufficient to cold set the expanded hominy material during the explosion and until cold setting of the hominy occurs, the pressure at the inception of the explosion and the extent of pressure reduction being correlated to produce an expanded product having a specific gravity between about 18.2% and 40% of the original hominy grits.

2,653,104
PUFFED CORN PRODUCT AND METHOD OF MAKING THE SAME
Charles R. Carman, Park Forest, Ill., assignor to Guardite Corporation, a corporation of Delaware
No Drawing. Application December 4, 1951, Serial No. 259,889
3 Claims. (Cl. 99—82)

1. In the preparation of a puffed corn product suitable for French frying the method, which comprises: substantially removing the air from cracked corn; substituting an atmosphere of steam under pressure; maintaining the steam pressure until the cracked corn is in condition for vacuum puffing; then instantaneously reducing the pressure from at least 50 pounds per square inch gauge to a substantial vacuum condition to cause an explosion resulting in puffing of the cracked corn; and maintaining a reduced pressure sufficient to cold set the puffed cracked corn during the explosion and until cold setting of the corn occurs, the pressure at the inception of the explosion and the extent of pressure reduction being correlated to produce a puffed cracked corn product free from a burnt or caramelized taste and about 3½ times the size of the original corn.

2,653,105
DIETETICALLY SWEETENED FOOD PRODUCTS AND METHOD OF PREPARING THE SAME
James B. Gordon, Burlingame, Calif.
No Drawing. Application December 8, 1952, Serial No. 324,831
8 Claims. (Cl. 99—129)

1. The method of making dietetically sweetened preserves from fruit requiring a substantial amount of sweetening which comprises the steps of adding to said fruit saccharin, a material selected from sodium cyclamate and calcium cyclamate in an amount of from two to twenty-five times the saccharin content, and from .3% to 1.5% by weight of low methoxyl pectin.

2,653,106
MANUFACTURE OF ALGINATES
Cyril Wilfred Bennilsen, Oxford, England
No Drawing. Application February 19, 1951, Serial No. 211,796. In Great Britain April 27, 1949
8 Claims. (Cl. 99—131)

1. A process of preparing a readily soluble alginate powder comprising the steps of mixing a water-soluble alginate in dry powder form with a solution of a salt, the base of which salt gives an insoluble alginate and the solvent of which solution is volatile and does not dissolve the water-soluble alginate, and then evaporating off the solvent to leave a powder, each particle of which consists of a core of dry soluble alginate coated with water-insoluble alginate, the salt being employed in such proportion that the product contains sufficient of the water soluble alginate to bring the insoluble alginate into solution when the powder is mixed with water.

2,653,107
FUSED REDUCED TITANIA-ZIRCONIA PRODUCT AND METHOD
Warren B. Blumenthal, Niagara Falls, N. Y., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application March 30, 1950, Serial No. 153,007
5 Claims. (Cl. 106—57)

1. The method of manufacturing a fused reduced titania-zirconia product which comprises heating to fusion a mixture of titanium dioxide and zirconium dioxide of composition within the mol ratio range 1:9 and 9:1 with sufficient carbon to reduce the oxygen content below 98 per cent of the original amount but not below 15 weight per cent, withdrawing the molten fusion product and permitting the same to cool and crystallize.

2,653,108

CELLULOSE ETHER COMPOSITION

Norman Bruce Oakley, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 29, 1950, Serial No. 203,529
2 Claims. (Cl. 106—189)

1. A composition of matter comprising carboxymethyl hydroxyethyl cellulose having a degree of substitution from about 0.37 to not more than 0.5 carboxymethyl group per anhydroglucose unit and dipropylene glycol in an amount from 10% to 40% by weight as a plasticizer therefor.

2,653,109

LIGHT-RESPONSIVE FLUORESCENT MEDIA

Joseph L. Switzer, Cleveland Heights, Robert C. Switzer, South Euclid, and Richard A. Ward, Cleveland, Ohio, assignors, by mesne assignments, to said Joseph L. Switzer and said Robert C. Switzer

No Drawing. Application August 21, 1942, Serial No. 455,610
12 Claims. (Cl. 117—33.5)

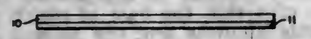
1. In an article of manufacture, a daylight fluorescent media comprising a light-transmitting carrier, a daylight fluorescing organic dye dispersed in said carrier, the maximum concentration ratio, by weight, of said dye in said carrier varying from five percent for blue and green dyes to one percent for red dyes, and a substantially colorless ultraviolet absorbing agent in a stratum over said dye.

2,653,110

MANIFOLDING TRANSFER AND METHOD OF MAKING

Jerome G. Zimmerman, West Milton, Ohio, assignor to The Standard Register Company, Dayton, Ohio, a corporation of Ohio

Application March 17, 1948, Serial No. 15,503
15 Claims. (Cl. 117—36)



1. In manifolding, a sheet of sized paper on one side of which is a substantially uniform, firm, nonsticky, non-tacky, colorless coating containing a water-soluble sulfide, an acidic manganese salt in an amount sufficient to produce an acidic condition in the coating in a wet condition, said coating being characterized by the presence of a higher carboxylic acid radical in the form of a water-insoluble salt, and a metallic element of a salt, the said metallic element being capable of forming dark colored water-insoluble sulfide with the aforesaid water-soluble sulfide but for the presence of said manganese salt, and said coating being further characterized in that when said metallic element is combined as a salt which is water-soluble, the said carboxylic acid radical is combined as a salt of a polyvalent metal the sulfide of which is colorless.

2,653,111

METHOD OF MAKING SHOE SOLES

Albert L. Murray, Auburn, Ind.

Application October 31, 1949, Serial No. 124,707
3 Claims. (Cl. 117—65)

1. The method of making a shoe sole of rubber-like material comprising the steps of coating one face of the material with a cementitious composition, placing a plate having a plurality of pits over one surface against the coated face, the pitted surface of said plate being against the coating so as to confine and entrap the coating composition in the pits, and then subjecting the

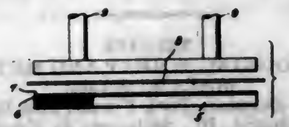


plate to simultaneous heat and pressure to cause penetration of the coating into the material and vulcanization of the material.

2,653,112

HEAT STABILIZED CELLULOSE YARN

William Earl Reeveare, Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 10, 1947, Serial No. 779,268
3 Claims. (Cl. 117—71)

1. A heat stabilized article comprising a yarn produced from regenerated cellulose impregnated with about 0.2% to about 2.0% of fine particles of a metal selected from the group consisting of aluminum and magnesium, said impregnated yarn being coated with a rubber.

2,653,113

SIZING OF ETHYLENE POLYMER STRUCTURES

Thomas Franklin Bunigan, Kenmore, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 12, 1951, Serial No. 246,526
10 Claims. (Cl. 117—138.8)

5. A method for improving the anti-static and slip characteristics of structures of ethylene polymer which comprises coating the surfaces of said structures with a dilute aqueous dispersion containing from 0.1% to 2% by weight, based on the weight of water, of dispersed particulate polyvinyl acetate having a particle size of from 3–12 microns, and from 0.15% to 0.50% of a mixture of compounds of the general formula,

$$(AlkO)_x-\overset{O}{\overset{\|}{P}}-[O(NX)H]_y$$

wherein Alk is a primary saturated aliphatic hydrocarbon radical having at least 6 carbon atoms; NX is an oxyalkylene amine selected from the group consisting of monoethanolamine, diethanolamine, triethanolamine, monoethanol-monomethylamine, ethanol-dimethylamine, diethanol-dimethylamine, and morpholine; x is an integer not greater than 2; and y is the difference between 3 and x, at a temperature of 60–70° C., and thereafter drying said coated structures.

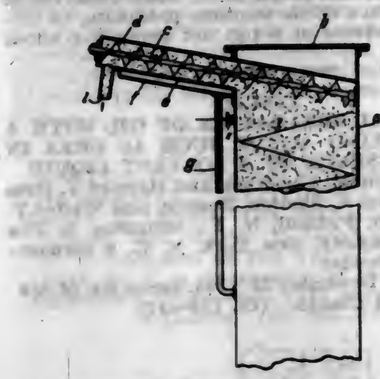
2,653,114

EXTRACTION TOWER

Eugen Langen, Braunschweig, Germany, assignor to Pfeifer und Langen, Kinderf (Rhineland), Germany

Application January 3, 1951, Serial No. 204,196
In Germany January 4, 1950
2 Claims. (Cl. 127—7)

1. In an installation for the extraction of beet chips a vertical extraction tower, a tube attached to its upper closed end for the supply of the extraction liquid, a vertical axis screw conveyor in said tower to lift the chips charged into the lower portion of said tower in an upward direction and countercurrently to the downflowing extraction liquid, a slightly upwardly inclined tubular casing laterally attached to a portion of said tower located above the entrance level of the extraction liquid, a screw conveyor in said casing extending through the same and through said tower towards the opposite wall thereof for the



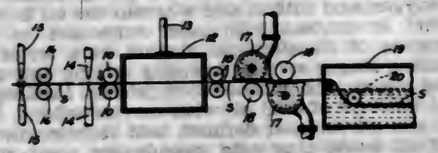
conduct of the partly leached chips into and through said tubular casing and for the completion therein of the leaching action, a screen separator for the extracted beets and the extraction liquid in the bottom portion of said casing, a tube attached to said casing underneath said screen to return the liquid separated from said leached chips into a lower section of said tower where the concentration of the extraction liquid downflowing in said tower corresponds to the concentration of the separated and returned liquid.

2,653,115

METHOD OF PICKLING

Ralph M. Drews, Cleveland, and Harold L. Farling, Garfield Heights, Ohio, assignors to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey

Application October 14, 1948, Serial No. 54,498
10 Claims. (Cl. 134—9)



1. The method of pickling a ferrous metal article which comprises the step of contacting the article at a temperature of about 300° F. with a pickling bath at a temperature between about 180° F. and about 210° F.

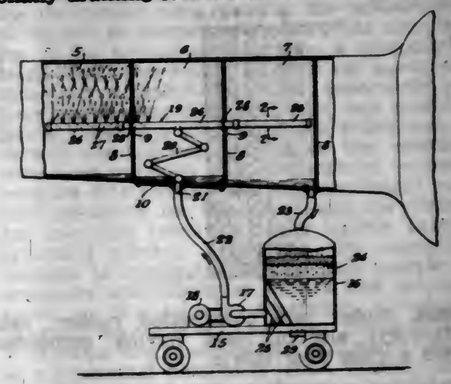
2,653,116

METHOD OF REMOVING SEALANT FROM FUEL TANKS

Keith R. Whitcomb and Eugene E. Finch, Los Angeles, Calif., assignors to Coo-Bee Chemical Co., Inc., Los Angeles, Calif., a corporation of California

Application March 16, 1949, Serial No. 81,824
3 Claims. (Cl. 134—10)

1. The method of removing the sealant from an aircraft integral fuel tank that comprises impinging a spray of volatile solvent against at least the upper portions of the sealant of the tank while the latter is sealed, simultaneously gravitationally draining free solvent from the tank with



removed sealant material, applying a water-rinsable, emulsifying spray to the sealant, and then applying water under higher pressure to rinse free solvent and emulsifier, and removed sealant material, from the tank.

2,653,117

METHOD OF MAKING A COLD FORMED BIMETALLIC SHAPE

Walter L. Keene, Dermont, Pa., assignor to Superior Steel Corporation, Pittsburgh, Pa., a corporation of Virginia

Application December 26, 1951, Serial No. 263,283
1 Claim. (Cl. 148—12)



A method of making a cold formed bimetallic shape comprising assembling in direct face-to-face contact a facing component of straight chromium type stainless steel containing less than .2% carbon and a relatively thick backing component consisting throughout predominantly of iron which is substantially free from migratable carbon, fastening the components together and peripherally sealing them to each other to prevent ingress of air therebetween, hot rolling the thus assembled components and thereby thinning them and bonding them together to form relatively thin elongated bimetal, spheroidizing the facing component at a temperature of the order of 1400–1600° F. while the bond zone between the components remains substantially free from brittle alloy and cold forming the bimetal into a shape, the components in the shape being substantially uncracked and uniformly adherent throughout.

2,653,118

STRUCTURE HAVING BONDED THERETO A CORROSION RESISTANT SURFACE

Raymond R. Seymour, Allentown, Pa., assignor to The Atlas Mineral Products Company of Pennsylvania, Meritztown, Pa., a corporation of Pennsylvania

Application February 1, 1951, Serial No. 208,919
5 Claims. (Cl. 154—43)

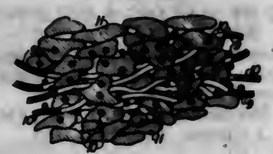
1. An article comprising a structure having bonded thereto a corrosion resistant surface com-

prising a rubber layer, a layer of polyfurfuryl alcohol resin bonded to said rubber layer by a member selected from the group consisting of



cyclized rubber and chlorinated rubber, said polyfurfuryl alcohol resin having embedded therein a glass fiber fabric.

2,653,119
PLATES ADAPTED FOR USE IN ELECTROLYTIC DEVICES
Joseph B. Brennan, Cleveland, Ohio
Application September 13, 1951, Serial No. 246,444
9 Claims. (Cl. 154—46)



1. An electrode for an electrolytic device comprising a calendered band of textile fibers disposed primarily longitudinally thereof, a plurality of elements of thermo-bonding material intermingled with said textile fibers and bonding said textile fibers and forming a unitary porous mass, and electrolytically active metallic particles deposited on and embedded within said mass and coalesced therewith, said metallic particles being bonded together at spaced points on their surface and bonded to and interlocked with the fibers of said band to form a conductive porous flexible electrode structure permeable to electrolyte.

2,653,120
METHOD OF MAKING A MINIATURE PACKET
Leon Adler, St. Louis, Mo.
Original application December 8, 1945, Serial No. 633,885. Divided and this application July 28, 1951, Serial No. 239,174
4 Claims. (Cl. 154—33)

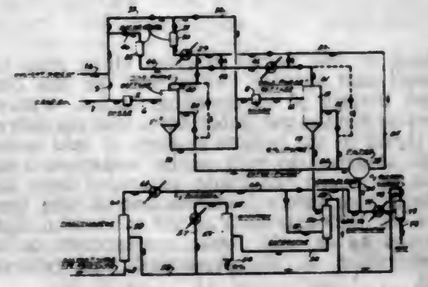


4. The method of forming pull tabs on a pair of sheets having mutually different resiliently flexible characteristics, comprising superimposing one of said sheets on the other one so that a predetermined portion of their opposed marginal edges extend in superimposed registry, securing said sheets together to leave said predetermined portion of their marginal edges unsecured, and then bending said unsecured marginal portions.

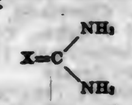
2,653,121
PERMANENT WAVING OF HAIR
Ernst O. Schnell, Chicago, Ill.
No Drawing. Application February 8, 1949, Serial No. 75,291
10 Claims. (Cl. 167—87.1)

1. A hair wave preparation, in the form of a solid product, said composition consisting essentially, as the active ingredients, of calcium thioglycolate and a water-soluble acid-reacting ammonium salt whose anion forms water-soluble calcium salts, said preparation, when dissolved in water to form a dilute solution, producing an initial pH in excess of 9 but not exceeding about 10.5.

2,653,122
FRACTIONAL SEPARATION OF OIL WITH A COMPLEXING AGENT SUCH AS UREA IN THE PRESENCE OF A SOLVENT LIQUID
George R. Arnold, Glenham, and Howard V. Hess and William E. Skelton, Beacon, and Walter V. Overbaugh, Fishkill, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
Application December 22, 1948, Serial No. 66,664
3 Claims. (Cl. 196—17)

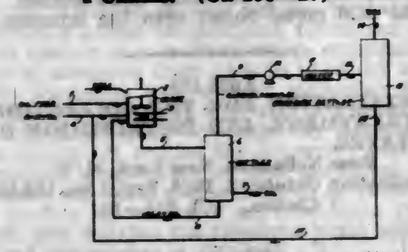


1. A continuous method of treating hydrocarbon oil containing constituents which form crystalline complexes with an organic compound having the structure:

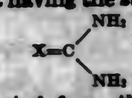


where X is selected from the group consisting of oxygen and sulfur, and wherein the oil is subjected to contact with said compound in the presence of C_3 aliphatic alcohol in a series of treating stages each comprising mixing and settling zones, the method comprising forming a first mixture of said oil with recycle solvent liquid and oil, as later defined, said recycle solvent and oil containing said complexing compound, the volume of alcohol contained in said resulting mixture being large relative to the volume of feed oil, subjecting the resulting mixture to settling in a settling zone at a temperature in the range of about 70 to 150° F., forming in said settling zone a solvent-rich liquid layer, an oil-rich liquid layer and an inter-phase layer rich in complexed constituents, separately withdrawing a stream of each layer, conducting withdrawn oil-rich liquid to a succeeding stage, forming with said withdrawn oil-rich liquid a second mixture with a further quantity of said recycle solvent and oil containing complexing compound the volume of alcohol in the resulting second mixture being large relative to the volume of oil therein, subjecting this second mixture to settling in a second settling zone at a temperature in the range of about 70 to 150° F., forming in the second settling zone a solvent-rich liquid layer, an oil-rich liquid layer and an inter-phase layer rich in complexed constituents, separately withdrawing a stream of each layer, discharging oil-rich liquid withdrawn from said last mentioned settling zone, commingling inter-phase layers withdrawn from both settling zones, filtering the complexed constituents from the commingled mixture to form a recycle oil-rich stream substantially free from complex, commingling solvent-rich streams withdrawn from said settling zones with said complex-free recycle oil stream, incorporating complexing compound in the resulting recycle stream mixture to form the aforesaid recycle solvent liquid and oil, and supplying make-up alcohol to the initial mixing zone to maintain the alcohol requirement for the system.

2,653,123
CONTINUOUS PROCESS FOR SEPARATION OF WAXLIKE CONSTITUENTS FROM OIL
Howard A. Kirsch and William E. Skelton, Beacon, and Walter V. Overbaugh, Fishkill, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
Application February 25, 1949, Serial No. 78,252
4 Claims. (Cl. 196—17)



1. A continuous method of separating wax from wax-bearing mineral oil by treatment with an organic agent having the structure:

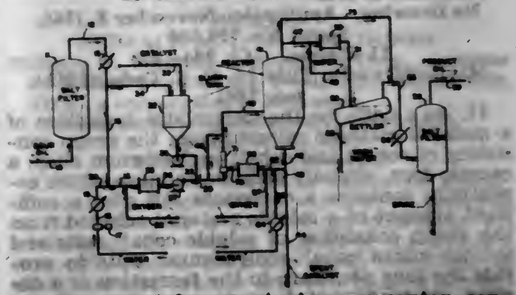


where X is selected from the group consisting of oxygen and sulfur and which is capable of entering into solid complex formation with wax constituents of oil, comprising passing a hot stream of aliphatic alcohol having from 2 to 5 carbon atoms per molecule and saturated with said agent at a temperature of about 212° F. into a contact zone, maintaining said zone under pressure sufficiently elevated to keep the alcohol liquefied, passing to said zone a stream of said oil, subjecting said oil and saturated alcohol to mixing within said zone while reducing the mixture to a temperature of about 100 to 125° F. such that a portion of said agent is crystallized from solution, supplying make-up alcohol and agent to said contact zone, regulating the introduction of alcohol and agent to the contact zone so as to maintain therein complexing agent in crystalline form in an amount which is substantially in excess of that required to enter into complex formation with wax constituents of the feed oil and such that the volume of alcohol is substantially less than the volume of oil in the contact zone, effecting crystalline complex formation between the agent and wax constituents of the oil, passing the resulting mixture of oil, alcohol, unreacted solid agent and complex to a first settling zone, forming therein an alcohol-rich layer containing crystalline complex material, an oil-rich inter-phase layer substantially free from complex, and a lower slurry layer comprising free agent crystals suspended in oil, separately withdrawing streams from each layer, discharging the withdrawn oil-rich interphase stream, recycling the withdrawn slurry stream to the contacting zone, passing the withdrawn alcohol-rich stream to a second settling zone, forming in the second settling zone a secondary alcohol-rich layer saturated with the agent and a secondary complex-rich layer, separately withdrawing streams from both said last mentioned layers, passing a portion of the withdrawn secondary alcohol-rich stream to the contacting zone, commingling the withdrawn secondary complex-rich stream with a solvent liquid having high solubility for the agent and low solubility for wax and relatively lower boiling than the aforesaid alcohol, subjecting the commingled mixture to heating such that said complex decomposes with liberation of wax and solution of agent in the solvent, separately withdrawing liberated wax and said solution, discharging the withdrawn wax, passing the withdrawn solution to a fractional distillation zone, passing the remaining portion of the withdrawn secondary alcohol-rich stream to said distillation zone, distilling the volatile solvent from said distillation zone at a temperature sufficiently elevated to form a residual hot solution of recovered agent in alcohol, and recycling said hot solution to said contact zone.

2,653,124
PROCESS FOR SWEETENING HYDROCARBON OILS
Jack H. Krause, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application November 24, 1950, Serial No. 197,281
10 Claims. (Cl. 196—29)

1. The process of refining a sour hydrocarbon distillate oil which process comprises contacting said oil in the presence of gaseous oxygen with substantially dry cupric chloride on an adsorbent support, intimately contacting the treated hydrocarbon oil with liquid water in the absence of a material that is reactive with cupric chloride at a temperature of at least about 100° F. to effect a hot water washing, and adding to the washed hydrocarbon oil between about 0.0002 and 0.01 weight percent, based on the washed hydrocarbon oil, of a copper metal deactivator.

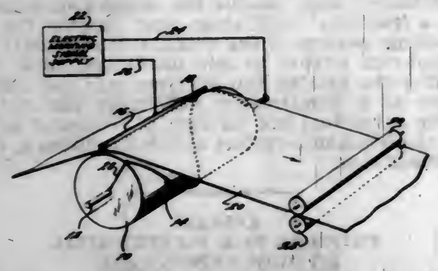
2,653,125
PROCESS FOR SWEETENING HYDROCARBON OILS
Jack H. Krause, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application December 27, 1950, Serial No. 202,968
16 Claims. (Cl. 196—29)



1. A process for sweetening mercaptan-containing hydrocarbon oils which comprises inti-

mately contacting said oil, in the liquid state, with a catalyst consisting of an inert adsorbent material, a copper salt and at least about 8 weight per cent of water, at a temperature between about 190° F. and 230° F., and in the presence of free-oxygen, wherein said copper salt is selected from the group consisting of copper sulfate and preferentially water soluble copper sulfonates.

2,653,126
METHOD OF MARKING
Harold G. Greig, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 23, 1950, Serial No. 145,800
6 Claims. (Cl. 204—2)



1. In a method of producing marks electrolytically, the steps of: impregnating a carrier support consisting of a porous sheet of material selected from the class consisting of paper and organic film-forming materials, with an aqueous solution having a pH within the range of substantially neutral to about 10.5 and containing nitrite ions and sulfamate ions; and electrolytically treating the impregnated support to render it at least temporarily acid at desired zones to cause the nitrite and sulfamate ions to react and generate gas bubbles within the support for imparting substantially permanently visible changes in opacity to said zones.

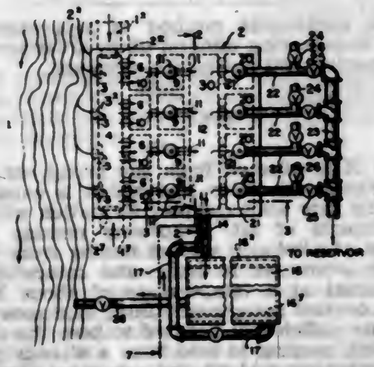
2,653,127
METHODS OF AND BATHS FOR ELECTRODEPOSITING COBALT OR COBALT-MOLYBDENUM ALLOYS
Abner Brenner, Chevy Chase, Md., and Polly Burkhead, Bethlehem, Pa., assignors to the United States of America as represented by the Secretary of War
No Drawing. Application November 8, 1946, Serial No. 708,565
11 Claims. (Cl. 204—43)
(Granted under Title 35, U. S. Code (1952), sec. 266)

11. As a bath for the electrolytic deposition of a metallic material selected from the group consisting of cobalt and cobalt-molybdenum alloy, a caustic-free, strongly alkaline solution which essentially contains a carbonate salt plus a sufficient amount of a soluble material selected from the group consisting of soluble cobalt salts and soluble mixed cobalt-molybdenum salts to provide the ions necessary to the formation of a desired electrodeposited coating of the selected metallic material.

2,653,128
METHOD OF AND BATH FOR ELECTRODEPOSITING TUNGSTEN ALLOYS
Abner Brenner, Chevy Chase, Md., Polly S. Burkhead, Bethlehem, Pa., and Clara A. Sentel, Herndon, Va., assignors to the United States of America as represented by the Secretary of War
No Drawing. Application November 8, 1946, Serial No. 708,566
12 Claims. (Cl. 204—43)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. The method of electroplating a metal object with an alloy composed of tungsten and at least one metal of the group consisting of iron, cobalt and nickel; which method comprises connecting the object to be plated as a cathode in an electrolytic bath consisting of an aqueous alkaline solution of soluble salts that supply to said solution tungstate ions and a complex consisting of ammonium ions plus ions of at least one metal of the group consisting of iron, cobalt and nickel, plus aliphatic organic ions having at least three hydroxyl and carboxyl groups in sum total, said soluble salts being substantially non-reactive chemically with the said metal object upon which the tungsten alloy is being electroplated, and plating said metal object with the tungsten alloy.

2,653,129
INSTALLATION FOR THE COLLECTION, TREATMENT, AND DISTRIBUTION OF WATER
Ross Nebolsine, New York, N. Y.
Application October 2, 1950, Serial No. 188,022
7 Claims. (Cl. 210—13)



1. A central water collecting and transmission installation comprising a substantially enclosed concrete structure having an interior partitioned by a series of parallel vertical walls so as to form a plurality of longitudinally extending bays between said walls, the first of said plurality of longitudinal bays having controlled means leading to a plurality of water channels, the second and third of said longitudinal bays having continuous transverse walls forming a plurality of cells in the second bay and a plurality of pump wells in the third bay, means for controlling the flow of water from said first bay to the cells of said second bay, means for controlling the flow of water from the cells to the base of the pump wells, said pump wells being provided with pumps having outlet orifices adjacent the top of the said wells, and a distributing bay communicating with said orifices and adapted to receive pumped water and distribute same.

2,653,130
FIRE EXTINGUISHING COMPOSITION OF CBr_2F_2 OR CF_2BrCF_2Br CONTAINING CF_4 AS A PROPELLANT
Bernhardt J. Eiseman, Jr., Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application May 17, 1951, Serial No. 226,921
7 Claims. (Cl. 252—8)

1. A self-propelling liquid composition consisting essentially of a solution of CF_4 in a member of the group consisting of CBr_2F_2 and CF_2BrCF_2Br, in which the CF_4 constitutes from about 2.5% to about 10% by weight of the liquid, said composition being maintained in a confined space under a pressure corresponding to its vapor pressure.

2,653,131
ALUMINUM-CARBON BLACK THICKENED GREASE COMPOSITIONS
Rosemary O'Halleran, Roselle Park, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application March 29, 1951, Serial No. 218,260
5 Claims. (Cl. 252—22)

1. An improved process for the formation of lubricating grease compositions containing combined therein carbon black which comprises the steps of admixing from 1.5% to 10.0% by weight of an aluminum soap of high molecular weight substantially saturated fatty acid in a mineral oil, heating said mixture to completely disperse said soap in said oil, cooling the dispersion below the transition temperature of said aluminum soap, blending with said cooled soap-oil solution from 3% to 30% by weight of an amorphous carbon black, and working the resulting blend until the desired consistency is obtained.

2,653,132
OXO-BOTTOMS BASE LUBRICATING GREASE
Arnold J. Morway, Rahway, and Paul V. Smith, Jr., Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 17, 1949, Serial No. 133,664
14 Claims. (Cl. 252—42)

1. A new and improved grease composition which comprises a synthetic oil thickened to a grease consistency with from about 5.0% to 20.0% by weight of the lithium soap of a high molecular weight substantially saturated fatty acid, said synthetic oil being the residue of distillation at a temperature of about 210° C. of the mixture of products obtained by subjecting a mono-olefin to the action of carbon monoxide and hydrogen in the presence of a cobalt catalyst at a temperature of about 300° F. to 350° F. and under a pressure of about 3000 pounds per square inch which has been hydrogenated to a predominately primary alcohol mixture containing one more carbon atom than the monoolefin.

2,653,133
COPOLYMERS AND LUBRICANTS CONTAINING THE SAME
Willard E. Catlin, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 7, 1950, Serial No. 199,713
4 Claims. (Cl. 252—51.5)

1. A lubricating oil containing from 0.1% to 10% by weight thereof of an oil-soluble copolymer of a nitrile from the group consisting of acrylonitrile and methacrylonitrile, and an alkyl ester in which the alkyl group contains from 10 to 18 carbon atoms, inclusive, of an unsaturated acid from the group consisting of acrylic and methacrylic acids, said nitrile amounting to 2% to 20% by weight of said copolymer.

2,653,134
PROCESS FOR REMOVING SCALE FROM ZIRCONIUM METAL AND ALLOYS THEREOF
Elmer Donald Dilling and Gordon Lowell Frederic, Albany, Oreg., assignors to the United States of America as represented by the Secretary of the Interior
No Drawing. Application October 10, 1950, Serial No. 189,472
1 Claim. (Cl. 252—101)
(Granted under Title 35, U. S. Code (1952), sec. 266)

A process for removing scale from metallic articles of zirconium and its alloys that consists in subjecting the article to the action of a pickling bath consisting of about 3% by volume of 60% hydrofluoric acid, 3% by volume of 70% nitric acid, 93–94% by volume of water with about 3% by weight of lead nitrate, while maintaining free metallic lead in the bath, and maintaining such articles in contact with said bath until the scale is loosened and removable by washing, and thereafter washing and rinsing the articles in water.

2,653,135
SURFACE ACTIVE COMPOUNDS
William B. Hughes and Everett B. Fisher, Bartlesville, Okla., assignors to Cities Service Research and Development Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application January 4, 1951, Serial No. 204,472
4 Claims. (Cl. 252—338)

1. The process of resolving emulsions which includes mixing with a petroleum water-in-oil emulsion a resolving agent consisting of a product prepared by mixing together from one to three mols of an aliphatic aldehyde having more than one carbon atom and one mol of a mixture of a polyethylene amine and an alkyl amine having more than four carbon atoms, heating the aldehyde-amine mixture for a period of from about one half to one hour at a temperature slightly below the boiling point of the mixture, and neutralizing the resultant product to a methyl orange end point with propylated naphthalene sulfonic acid, the agent being mixed in an amount small but sufficient to cause substantial resolution of the emulsion, allowing the treated emulsion to settle into an oil phase and a water phase, and separating the oil from the water.

2,653,136
SURFACE ACTIVE COMPOUNDS
William B. Hughes, Bartlesville, Okla., assignor to Cities Service Oil Company, Bartlesville, Okla., a corporation of Delaware
No Drawing. Application June 14, 1950, Serial No. 168,169
5 Claims. (Cl. 252—338)

1. The process of resolving emulsions including subjecting a petroleum water-in-oil emulsion to the action of a composition consisting essentially of the reaction product of one mol of a carbonyl selected from the group consisting of aldehydes and ketones and two mols of a polyethylene amine, neutralized to a methyl orange end point with a propylated naphthalene sulfonic acid.

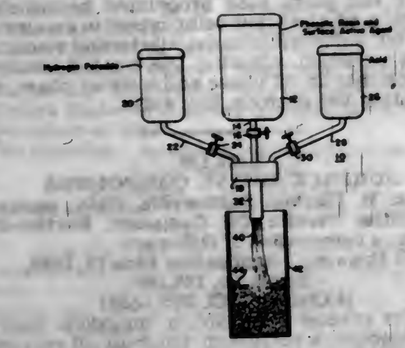
2,653,137
SURFACE ACTIVE COMPOUNDS
William B. Hughes and Everett B. Fisher, Bartlesville, Okla., assignors to Cities Service Research and Development Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application January 4, 1951, Serial No. 204,473
8 Claims. (Cl. 252—338)

1. The method of resolving emulsions comprising mixing with a petroleum water-in-oil emulsion a resolving agent consisting of the product prepared by reacting about one mol of benzaldehyde with about one mol of an alkyl amine to form a first intermediate product heating the reaction mixture whereby to drive off water formed in the reaction, reacting the first intermediate product with about one mol of a polyethylene amine to form a second intermediate product, and neutralizing the second intermediate product to a methyl orange end point with propylated naphthalene sulfonic acid, the agent being mixed in an amount small but sufficient to cause substantial resolution of the emulsion, allowing the emulsion to settle into a water phase and an oil phase, and separating the oil from the water.

2,653,138
TELLURIUM CATALYSTS
William R. Middleton, Wenonah, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application December 7, 1950, Serial No. 199,719
8 Claims. (Cl. 252—439)

1. A new catalyst consisting essentially of about 1 to about 40 mole per cent of an oxide of a metal of group VI of the periodic table having an atomic weight of at least about 96 and an oxide of tellurium.

2,653,139
IN-PLACE EXPANDED CELLULAR RESINOUS BODIES AND PROCESSES FOR PRODUCING THEM FROM PHENOL-ALDEHYDE RESINS WITH THE AID OF A PEROXIDE
Robert F. Sterling, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 20, 1950, Serial No. 163,108
6 Claims. (Cl. 260—2.5)



1. The method of preparing a thermoset cellular resinous body comprising admixing as essential reactive ingredients (a) between 50% and 90% by weight of a thermosetting partially reacted aqueous reaction product of one mole of at least one phenol selected from the group consisting of phenol, cresol, xylenol and cresylic acid and between 1 and 3 moles of at least one aldehyde selected from the group consisting of formaldehyde, reactive polyymers of formaldehyde, acetaldehyde, hexamethylenetetramine, and furfuraldehyde, the reaction being carried out in the presence of from 0.05% to 5% based on the weight of the phenol, of an alkaline catalyst for the reaction, the reaction being carried out in the presence of substantial amounts of water and at a temperature of between 50° C. and 115° C. for a time of between ½ hour and 20 hours, and dehydrating the reaction product while maintaining it at a pH of between 3 and about 11 to provide a resinous product containing between 3% and 25% water and having a viscosity of between 1 and 250 poises, (b) between 5% and 0.1% by weight of at least one acid stable, water soluble, surface active agent selected from the group consisting of non-ionic alkyl polyethers wherein the alkyl groups contain from 8 to 18 carbon atoms, (c) a peroxide solution selected from the group consisting of an aqueous solution of hydrogen peroxide of a concentration of from 20% to 90% H_2O_2 and a solution containing from 40% to 80% of methyl ethyl ketone peroxide in an organic solvent, the peroxide solution being in an amount providing free oxygen equal to that available in from 1% to 20% by weight of 100% H_2O_2, and (d) approximately 49% to 2% by weight, of at least one strong acid selected from the group consisting of hydrochloric acid, sulfuric acid, nitric acid, phosphoric acid, pyrophosphoric acid, polyphosphoric acid, water-soluble sulfonic acids, hydrobromic acid, hydriodic acid and trichloracetic acid, the acid comprising not over 80% by weight of water, and allowing the resulting mixture to expand to produce a thermoset cellular body.

2,653,140
TEXTILE FINISHING COMPOSITIONS
Owen Clement Wentworth Allenby, McMasterville, Quebec, Canada, and James Carrell MacKenzie, Winchester, Mass., assignors to Canadian Industries Limited, Montreal, Quebec, Canada, a corporation of Canada
No Drawing. Application November 19, 1952, Serial No. 321,497. In Canada October 9, 1951
12 Claims. (Cl. 260—17.3)

1. A textile finishing composition comprising as essential ingredients starch, dimethylol urea, and a water-soluble salt of a thermoplastic copolymer of an acid selected from the group consisting of acrylic acid, methacrylic acid and crotonic acid, an amide selected from the group consisting of acrylamide, methacrylamide and crotonamide, and at least one other polymerizable monoethylenically unsaturated compound selected from the group consisting of styrene, vinyl acetate and lower alkyl esters of acrylic acid and methacrylic acid.

2,653,141
PARTIAL ESTERS OF POLYHYDROXYL POLYETHERS
Sylvan Owen Greenlee, Louisville, Ky., assignor to Devoe & Raynolds Company, Inc., Louisville, Ky., a corporation of New York
No Drawing. Application December 3, 1945, Serial No. 633,594
8 Claims. (Cl. 260—18)

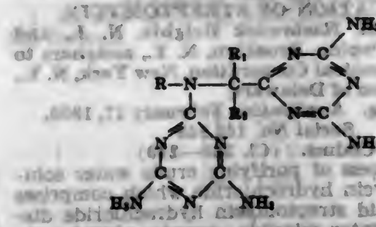
1. New partial esters of complex resinous polyhydric alcohols with higher unsaturated fatty acids, said polyhydric alcohols being polymeric polyether derivatives of dihydric phenols, which dihydric phenols are free from functional groups other than phenolic hydroxyl groups, said polyhydric alcohols having a plurality of alternating aromatic nuclei and of aliphatic chains united through ether oxygen, the aromatic nuclei being the hydrocarbon nucleus of the dihydric phenol and being free from functional groups, and the aliphatic chains being free from substituents other than alcoholic hydroxyl groups and esterified alcoholic hydroxyl groups esterified with said unsaturated fatty acids, part of said aliphatic chains having alcoholic hydroxyl groups esterified with said unsaturated fatty acids and part of said aliphatic chains containing free alcoholic hydroxyl groups, the proportion of esterified hydroxyl groups and free alcoholic hydroxyl groups being from about 10% esterified and 90% free hydroxyl groups to about 75% esterified and 25% free hydroxyl groups, said partial esters being solids at ordinary temperatures and soluble in volatile solvents to form quick drying compositions capable of subsequent further hardening by oxidation.

2,653,142
ESTER RESINS FOR VARNISHES AND INKS USING MONOMERIC PHENOLIC ETHERS OF ALIPHATIC POLYHYDROXY ALCOHOLS
William P. Cody, Lombard, and Edgar L. Clark, Cicero, Ill., assignors to Alkydol Laboratories, Inc., Cicero, Ill., a corporation of Illinois
No Drawing. Application May 16, 1951, Serial No. 226,748
13 Claims. (Cl. 260—26)

9. Ester resins suitable for oleoresinous varnish and printing ink formulations which are esters of natural resins of at least 75 acid value with a member of the group consisting of the monomeric monohydric phenolic ethers of aliphatic polyhydric alcohols and their epoxides.

2,653,143
CONDENSATION PRODUCTS OF BIS-AMINOTRIAZINES
Peter L. de Benneville, Philadelphia, and Vincent Carr Meunier, Flourtown, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application March 12, 1952, Serial No. 276,233
11 Claims. (Cl. 260—67.7)

1. A composition of matter comprising a condensation product of formaldehyde and a bis-(aminotriazine) of the formula



wherein R is an alkyl group of one to eight carbon atoms and contains a hydrogen atom on the carbon atom adjacent to the nitrogen atom, R_1 is selected from the group consisting of hydrogen and methyl, and R_2 is an alkyl group of one to eight carbon atoms.

2,653,144
STABILIZED POLYHEPTAMETHYLENEUREA AND PROCESS FOR MAKING THE SAME
Edward A. Wielicki, Philadelphia, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 3, 1950, Serial No. 177,561
13 Claims. (Cl. 260—77.5)

7. A composition of matter comprising the product obtained from the reaction by heating of substantially equimolecular proportions of heptamethylene diamine and a substance selected from the group consisting of urea and heptamethylene diisocyanate to polyurea-forming temperature with a minor proportion of a substance selected from the group consisting of aniline, unsymmetrical diphenylurea, acetic acid, diphenylamine and hexamethylene diammonium acetate, said product, in respect to its melt-viscosity, being stable to heat at a temperature between 250° C. and 280° C. for at least one hour.

2,653,145
METHODS FOR PRODUCING COPOLYMERS IN THE FORM OF DISCRETE PARTICLES
Walter P. Hohenstein, Kew Gardens, N. Y., assignor to The Whitney Blake Company, Hamden, Conn., a corporation of Connecticut
No Drawing. Application March 15, 1951, Serial No. 215,876
5 Claims. (Cl. 260—83.5)

1. The method of producing solid but relatively soft, rubber-like copolymers which, although tacky at the temperature employed in forming them, are nevertheless substantially free, as finally obtained, from occluded electrolytes and hygroscopic substances deleteriously affecting electrical insulation properties, which comprises intermixing a plurality of including at least one vinylidene compound, at least one conjugated aliphatic diolefinic compound copolymerizable therewith to yield such a relatively soft, rubber-like copolymer product, a polymerization catalyst and a dispersing fluid; the dispersing fluid being substantially a non-solvent for the monomers and also for the resultant copolymer; mechanically agitating the intermixture at a temperature between about 120° F. and about 325° F. until solid but tacky particles of the desired copolymer are produced; continuing the mechanical agitation to prevent agglomeration of the particles while chilling the intermixture to a temperature above the freezing point of the dispersing fluid and below about 50° F. at which said particles are non-tacky; and freeing the copolymer particles from the dispersing fluid while the particles are in the said chilled, non-tacky and non-agglomerating condition.

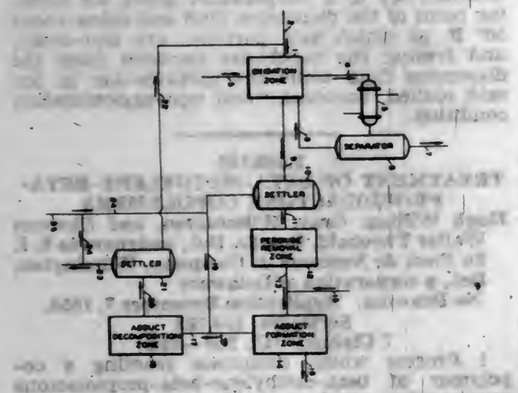
2,653,146
TREATMENT OF BETA-METHYLENE-BETA-PROPIOLACTONE COPOLYMERS
Hugh William Gray, Wilmington, and Clement Walter Theobald, Roselle, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 7, 1950, Serial No. 199,722
7 Claims. (Cl. 260—85.5)

1. Process which comprises reacting a copolymer of beta-methylene-beta-propiolactone and another copolymerizable organic compound containing ethylenic unsaturation, said copolymer containing beta-propiolactone rings wherein a ring carbon is also part of the main polymer chain, and being free of pyrone rings, with at

least 0.01 mole of a compound containing active hydrogen as determined by the Zerewitnoff-Tschugaeff method, from the group consisting of ammonia, amines, and hydrazine per mole of chemically combined beta-methylene-beta-propiolactone in said copolymer at a temperature of 20° C. to 175° C., until at least an appreciable proportion of said beta-propiolactone rings are cleaved.

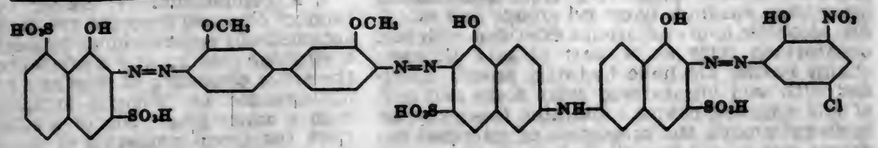
2,653,147
SEPARATION PROCESS
Joseph I. Ackerman, Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application May 22, 1950, Serial No. 163,429
15 Claims. (Cl. 260—96.5)

1. The method for resolving mixtures of naphthenic hydrocarbons and oxygenated derivatives of naphthenic hydrocarbons which comprises contacting said mixture with thiourea in the presence of an addition reaction activator selected from the group consisting of (*a*) low-boiling oxygenated hydrocarbon derivatives; (*b*) nitrogen-containing activators; and (*c*) water in amount such that an aqueous thiourea solution containing from 60 to 95 per cent of the thiourea required for saturation is employed, and separating solid addition products of said naphthenic hydrocarbons and thiourea from the resulting mixture.



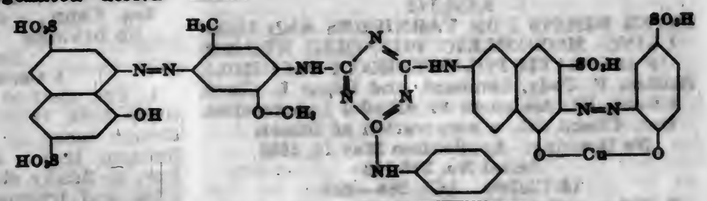
2,653,148
CUPRIFEROUS TRISAZO DYESTUFFS
Fritz Kehrer, Basel, Switzerland, assignor to Sandoz A. G., Basel, Switzerland, a Swiss firm
No Drawing. Application August 7, 1950, Serial No. 178,174. In Switzerland August 15, 1949
6 Claims. (Cl. 260—145)

3. The copper complex of the trisazo dyestuff of the formula



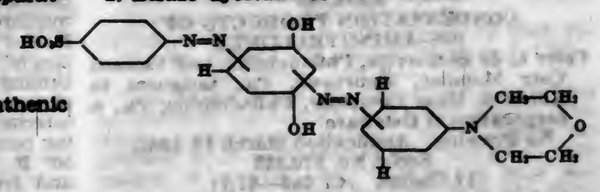
2,653,149
CUPRIFEROUS DISAZO-DYESTUFFS
Henri Rist, Basel, Switzerland, assignor to Ciba Limited, Basel, Switzerland, a Swiss firm
No Drawing. Application June 22, 1951, Serial No. 233,167. In Switzerland July 7, 1950
7 Claims. (Cl. 260—146)

4. The cupriferous disazo dyestuff of the formula:



2,653,150
MORPHOLINE AZO DYESTUFFS
Mordecai Mendoza, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application July 16, 1951, Serial No. 237,073. In Great Britain August 3, 1950
4 Claims. (Cl. 260—153)

2. Disazo dyestuffs of the formula:

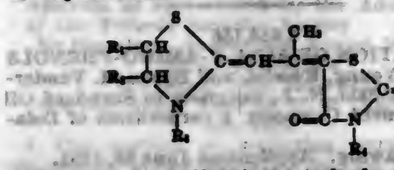


2,653,151
PURIFICATION OF STREPTOMYCIN
Herman Sokol, Hasbrouck Heights, N. J., and Robert P. Popine, Brooklyn, N. Y., assignors to Heyden Chemical Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application February 17, 1950, Serial No. 144,248
9 Claims. (Cl. 260—210)

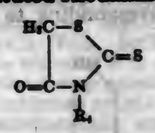
1. The process of purifying crude water soluble streptomycin hydrochloride which comprises contacting said streptomycin hydrochloride dissolved in a water-miscible organic solvent containing water with an acidified alumina adsorption column having a pH of from 3.0 to 4.0 and then recovering purified streptomycin from the column effluent.

2,653,152
CYANINE DYE AND PROCESS OF MAKING SAME
John H. Dessauer, Pittsford, and Michael A. Insalaco, Rochester, N. Y., assignors to The Haloid Company, Rochester, N. Y., a corporation of New York
No Drawing. Application August 4, 1950, Serial No. 177,778
7 Claims. (Cl. 260—240.4)

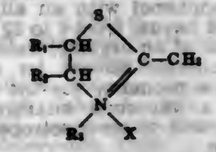
1. The process of preparing asymmetrical dyes of the formula:



consisting of reacting in an anhydrous inert organic solvent and in the presence of an organic base, an N-substituted rhodanine of the formula:



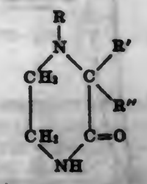
with two molecular portions of a compound serving the dual role of forming a major constituent of the product and also yielding a product of reaction to form the linking agent for the two major groups, said reacting compound having the general formula:



R_1 in each formula being selected from the group consisting of hydrogen and lower alkyl, R_2 in each formula being selected from the group consisting of hydrogen and lower alkyl, R_3 in each formula being lower alkyl, R_4 in each formula being selected from the group consisting of lower alkyl and lower aryl, and X being an acid radical.

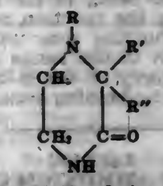
2,653,153
4-N-SUBSTITUTED-2-KETOPIPERAZINES
Peter L. de Benneville, Philadelphia, Pa., assignor to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application February 8, 1952, Serial No. 270,769
12 Claims. (Cl. 260—268)

1. As new chemical substances compounds of the formula

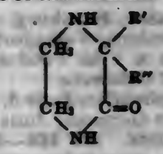


wherein R represents a member of the class consisting of alkyl groups of not over 12 carbon atoms, dialkylaminoalkyl groups, the alkyl substituents thereof each containing not over eight carbon atoms, and benzyl groups and R' and R'' represent members of the class consisting of hydrogen and lower alkyl groups.

7. A process for preparing compounds of the formula



which comprises reacting between 50° and 180° C. a ketopiperazine of the formula



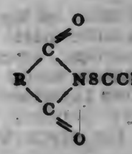
an aldehyde, R°CHO, and formic acid, R° representing a member of the class consisting of hydrogen, alkyl groups of not over 11 carbon atoms, phenyl groups, no alkyl substituent thereof containing over eight carbon atoms, and dialkylaminoalkyl groups and R' and R'' representing members of the class consisting of lower alkyl groups.

2,653,154
BENZOTHIAZOLE DERIVATIVES AND METHOD OF MANUFACTURE
Norbert Steiger, Nutley, and Oscar Keller, Clifton, N. J., assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application May 29, 1951, Serial No. 228,976
The portion of the term of the patent subsequent to December 17, 1968, has been disclaimed
7 Claims. (Cl. 260—305)

1. A compound of the group consisting of 2-mono lower alkylamino-6-(di-lower alkylamino-alkoxy)-benzothiazoles, wherein the "alkoxy" radical contains from 2 to 5 carbon atoms, and the acid addition salts thereof.

2,653,155
MANUFACTURE OF N-TRICHLOROMETHYLTHIO IMIDES
Allen R. Kittleson, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application April 21, 1951, Serial No. 222,360
3 Claims. (Cl. 260—326)

1. A process for the preparation of an N-trichloromethylthio imide corresponding to the formula



wherein R is a hydrocarbon nucleus which comprises the steps of feeding an aqueous solution of an alkali metal imide of a dicarboxylic acid and perchloromethyl mercaptan into at least one reaction zone; maintaining a temperature of 10 to 30° C. in said reaction zone; admixing the perchloromethyl mercaptan with the alkali metal imide; regulating the rate of flow of the perchloromethyl mercaptan and alkali metal imide into and the withdrawal of the resultant

reaction mixture from the reaction zone so that a pH of 10.0 to 10.5 is maintained therein; withdrawing the reaction mixture to a holding zone, said holding zone being larger than any reaction zone; mixing the reaction mixture which is retained in the holding zone until the reaction mixture has a pH in the range of 7 to 8.5, and withdrawing a slurry of the N-trichloromethylthio imide from the holding zone.

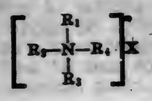
2,653,156

QUATERNARY AMMONIUM COMPOUNDS AND PROCESS FOR PRODUCING THE SAME

Martin Karl Deutsch, Hamburg, and Hans Werner Stobbe, Hamburg-Volksdorf, Germany, assignors to Lehn & Fink Products Corporation, a corporation of Delaware

No Drawing. Application June 3, 1950, Serial No. 166,072. In Germany June 21, 1949
13 Claims. (Cl. 260—404)

9. A quaternary ammonium compound having detergent and germicidal properties and having the formula



wherein

R_1 is an hydroxyalkyl radical having 1 to 5 carbon atoms,
R_2 is a hydroxyalkyl radical having 1 to 5 carbon atoms acylated with a fatty acid having 6 to 18 carbon atoms,
R_3 is an aralkyl radical having from 7 to 10 carbon atoms,
R_4 is an alkyl radical having 1 to 3 carbon atoms,
X is an inorganic acid radical, and
n is an integer corresponding to the valence of X.

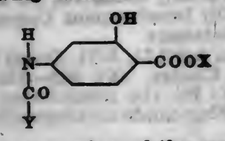
2,653,157

p-AMINO-SALICYLIC ACID DERIVATIVES AND THEIR PRODUCTION

Rudolf Albert Ursprung, Aarburg, Switzerland, assignor to Aktiengesellschaft vormals B. Siegfried, Zofingen, Switzerland

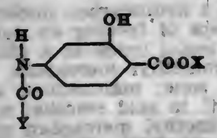
No Drawing. Application June 28, 1950, Serial No. 170,964. In Switzerland July 6, 1949
12 Claims. (Cl. 260—404)

1. A new p-amino-salicylic acid compound having the following formula



in which X is a member of the group consisting of hydrogen, a non-toxic metal and a lower alkyl and Y is a hydrocarbon radical composed of a chain of 1 to 12 carbon atoms terminating in a member selected from the group consisting of the cyclopentyl- and cyclopentenyl radicals.

5. In a process for preparing compounds of the formula



in which X is a member of the group consisting of hydrogen, a non-toxic metal and a lower alkyl and Y is a hydrocarbon radical composed of a chain of 1 to 12 carbon atoms terminating in a member selected from the group consisting of the cyclopentyl- and cyclopentenyl radicals, the step of reacting a compound selected from the group consisting of p-amino-salicylic acid, its non-toxic salts and lower alkyl esters with an acylating agent giving the radical Y—CO, wherein Y is a hydrocarbon radical composed of a chain of 1 to 12 carbon atoms terminating in a member selected from the group consisting of the cyclopentyl- and cyclopentenyl radicals.

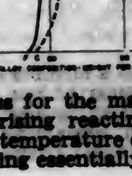
2,653,158

PREPARATION OF ACYL P-AMINO-PHENOLS

David W. Young, Roselle, and Byron M. Vanderbilt, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application June 29, 1951, Serial No. 234,448
5 Claims. (Cl. 260—404)

3. A process for the preparation of an acyl-p-aminophenol corresponding to the general formula



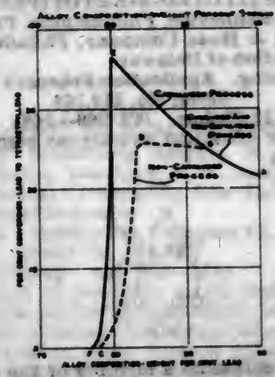
wherein R is an alkyl radical having from 3 to 21 carbon atoms, which comprises reacting acetyl p-aminophenol with an aliphatic monocarboxylic acid having from 4 to 22 carbon atoms in the presence of an organic, water immiscible-acetic acid miscible solvent for the reactants and water as a promoter for the reaction, and withdrawing a vaporous mixture of organic solvent-acetic acid-water azeotrope from the reaction mixture.

2,653,159

MANUFACTURE OF TETRAETHYLLEAD

George W. Beste and Homer M. Tanner, Baton Rouge, La., and Hymin Shapiro, Detroit, Mich., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware

Application December 24, 1949, Serial No. 135,062
6 Claims. (Cl. 260—437)



1. The process for the manufacture of tetraethyllead comprising reacting under anhydrous conditions at a temperature of from 80 to 140° C. an alloy consisting essentially of sodium and lead containing from 80 to 86.5 weight percent lead, with ethyl chloride in the presence of a lead ethylation catalyst.

2,653,160

PREPARATION OF ORGANOMETALLIC COMPOUNDS BY REACTION BETWEEN DRY DIAZONIUM COMPOUNDS AND METALLIC SALTS IN ORGANIC SOLVENTS

George O. Doak and Leon D. Freedman, Chapel Hill, N. C., assignors to the United States of America as represented by the Administrator of the Federal Security Agency

No Drawing. Application August 30, 1951, Serial No. 244,454
6 Claims. (Cl. 260—442)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. The method of preparing organometallic compounds which comprises mixing together a dry diazonium compound selected from the group consisting of diazonium aryl fluoborates and aryl diazonium fluosilicates and a halide selected from the group consisting of $HgCl_2$, $SnCl_2$, $PbCl_2$, $RHgCl$, $AsCl_3$, $SbCl_3$, PCl_3, $BiCl_3$, $SiCl_4$, $RPCl_2$, R_2PCl, and $RAsCl_2$ wherein R is an organic radical selected from the group consisting of the substituted and unsubstituted aromatic and aliphatic radicals, under substantially anhydrous conditions in the presence of an organic solvent and a catalyst selected from the group consisting of copper metal and copper salt and hydrolyzing the reaction products to produce the mono- and di-acids thereof.

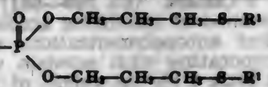
2,653,161

SULFUR AND PHOSPHORUS-CONTAINING ESTERS

Seaver A. Ballard, Orinda, Rupert C. Morris, Berkeley, and John L. Van Winkle, San Lorenzo, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

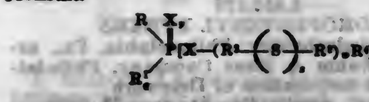
No Drawing. Application December 2, 1950, Serial No. 198,912
10 Claims. (Cl. 260—461)

3. A phosphonate having the formula



in which R is a member of the class consisting of hydrocarbon and halogen-substituted hydrocarbon radicals, the radical represented by R being directly linked to the phosphorus atom by a carbon-to-phosphorus bond and each R^1 is an alkyl group.

10. An ester of an organo-phosphorus acid, said ester having a structure corresponding to the formula



in which R is a member of the class consisting of hydrocarbon and halogen-substituted hydrocarbon radicals, the radical represented by R being directly linked to the phosphorus atom by a carbon-to-phosphorus bond, R^1 is a member of the class consisting of the hydrogen atom and the radicals represented by R, X is an atom of a non-metallic element of group VI-A having an atomic weight below 40, R^2 and R^3 represent divalent aliphatic hydrocarbon radicals, R^4 represents a member of the group consisting of hydrogen, hydroxyl, mercapto, and alkoxy, y represents 0 or 1, q represents 0 or 1, $x=2-q$ and w and z represent small whole positive numbers.

2,653,162

SYNTHESIS OF ALKYLENE CYANOHYDRINS

Leo S. Luskin, Philadelphia, Pa., assignor to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application August 22, 1951, Serial No. 243,162
3 Claims. (Cl. 260—465.6)

1. A process for preparing alkylene cyanohydrins which comprises reacting an α,β-alkylene oxide of two to three carbon atoms with hydrogen cyanide between 25° and 95° C. in the presence of a cation-exchange resin having alkali metal carboxylate groups as the functional groups thereof.

2,653,163

GENTISYL p-AMINOSALICYLATES AND METHOD OF PREPARING SAME

Robert Michel Jacob, Ablon-sur-Seine, France, assignor to Societe des Usines Chimiques Rhone-Poulenc, Paris, France

No Drawing. Application July 25, 1952, Serial No. 300,965. In France July 30, 1951
7 Claims. (Cl. 260—471)

1. The compound 3' - carboxy - 4' - hydroxyphenyl 2-hydroxy-4-amino benzoate.

3. Process for the production of gentisyl p-aminosalicylates which comprises reacting gentisic acid with a compound selected from the group consisting of 2-hydroxy-4-nitrobenzoyl chloride and 2-acylated derivatives thereof, in an anhydrous solvent medium in the presence of a tertiary amino base, separating the isomeric products by crystallisation from a solvent, hydrolysing the acyl group if present and subjecting the products to catalytic hydrogenation.

2,653,164

PROCESS FOR PREPARING DERIVATIVES OF MARRIANOLIC ACID

Karl Miescher, Riehen, and Georg Anner, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.

No Drawing. Application December 13, 1948, Serial No. 65,076. In Switzerland December 22, 1947
1 Claim. (Cl. 260—473)

In a process for the manufacture of racemic marrianolic acid, the steps of reacting 1-oxo-2-methyl-7-methoxy-1,2,3,4,9,10,11,12 - octahydrophenanthrene-2-carboxylic acid methyl ester melting at 133–135° C. with bromacetic acid ester at elevated temperature in the presence of zinc, splitting off water from the so-obtained hydroxy compound with phosphorus oxychloride, and hydrogenating the newly-formed double bond with the aid of a palladium catalyst in an atmosphere of hydrogen at about 60° C.

2,653,165

OXIDATION PROCESS

Irving E. Levine, Albany, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware

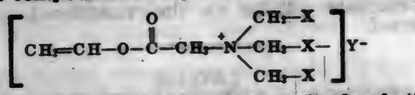
No Drawing. Application September 27, 1950, Serial No. 187,127
18 Claims. (Cl. 260—475)

1. A process for producing monoesters of phthalic acids which comprises oxidizing toluic

acid esters of low molecular weight alkanols to mono-esters of phthalic acids by contacting them with a free oxygen-containing gas at an elevated temperature and recovering phthalic acid mono-esters from a free reaction product.

2,653,166
QUATERNARY SALTS
David T. Mowry and Eugene L. Ringwald, Dayton, Ohio, assignors, by mesne assignments, to The Chemstrand Corporation, a corporation of Delaware
No Drawing. Application October 25, 1949, Serial No. 123,523
The portion of the term of the patent subsequent to November 4, 1969, has been disclaimed
8 Claims. (Cl. 260—483)

1. A compound having the structural formula:



wherein each X group is a radical of the group consisting of alkyl radicals having up to four carbon atoms, hydroxy alkyl radicals having up to four carbon atoms and hydrogen, and Y is a halogen of the group consisting of chlorine, iodine and bromine.

2,653,167
METHOD FOR THE PREPARATION OF CYCLOHEXENE-4-CARBOXYLIC ACIDS
Jacob Eden Jansen, Akron, and Frank X. Werber, North Royalton, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application July 18, 1951, Serial No. 237,478
10 Claims. (Cl. 260—514)

1. The method which comprises reacting a member of the class consisting of beta-lactones having at least one hydrogen atom on the alpha carbon atom, and homopolymers of said beta-lactones, with a member of the class consisting of acyclic and alicyclic polyenes, at a temperature of from about 100° C. to 250° C., thereby to obtain a cyclohexene-4-carboxylic acid.

2,653,168
PROCESS FOR PREPARING FUMARYL CHLORIDE
Sydney M. Spatz, Middletown, N. Y., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York
No Drawing. Application October 6, 1950, Serial No. 188,870
8 Claims. (Cl. 260—544)

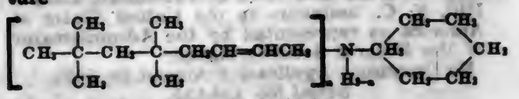
1. In a process for preparing fumaryl chloride the step which comprises heating a mixture of fumaric acid and thionyl chloride in the presence of an iron promoter.

2,653,169
N-N'-DICHLORO-1,8-DIFORMAMIDO-p-MENTHANE
Melvin D. Hurwitz, Huntingdon Valley, and Robert W. Autem, Jenkintown, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application June 11, 1952, Serial No. 292,984
1 Claim. (Cl. 260—561)

N-N'-dichloro-1,8-diformamido-p-menthane.

2,653,170
DODECENYLCYCLOHEXYLAMINES
Richard S. Cook, Rockledge, and W E Craig, Philadelphia, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application June 26, 1952, Serial No. 295,242
2 Claims. (Cl. 260—583)

1. As new substances, compounds of the structure



where *n* has a value of one to two.

2,653,171
STABILIZED AROMATIC AMINES
Adrian L. Linch, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 28, 1950, Serial No. 146,933
8 Claims. (Cl. 260—578)

1. A composition consisting essentially of an aromatic amine of the formula R—NH_2 wherein R represents a substituted benzene ring in which the substituents consist of at least one member of the class consisting of methyl, chlorine, amino, phenylamino and aminotolyl groups, and from about 0.01% to about 0.5% of a zinc aromatic mercaptide of the formula R'—S—Zn—S—R' wherein R' represents a member of the class consisting of phenyl and substituted phenyl radicals in which the substituents are selected from the class consisting of chlorine, methyl, ethyl and carboxymethyl groups.

2,653,172
STABILIZATION OF ACROLEIN
Harvey L. Parry, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application June 23, 1948, Serial No. 34,562
5 Claims. (Cl. 260—601)

1. The method of stabilizing acrolein in liquid state against autopolymerization, which comprises incorporating with acrolein water in an amount at least 0.1% by weight of the acrolein but not exceeding the solubility limit of water in acrolein, hydroquinone in an amount from about 0.0001% to about 5%, based upon the weight of the acrolein, and maintaining the acrolein containing the water and the hydroquinone in contact with a copper metal having a copper content greater than 50%.

2,653,173
CHLOROPENTENYL ETHERS
Warren D. Niederhauser, Philadelphia, Pa., assignor to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application January 28, 1950, Serial No. 141,165
3 Claims. (Cl. 260—614)

1. As a new composition of matter a mixture of the isomeric chloropentenyl ethers having the formulas

$ClCH_2CH{=}CHCH_2CH_2OCH_2CH_2CH{=}CHCH_2Cl$

and

$CH_3{=}CHCHClCH_2CH_2OCH_2CH_2CHClCH{=}CH_2$

2. A process for preparing a mixture of the isomeric chloropentenyl ethers having the formulas

$ClCH_2CH{=}CHCH_2CH_2{-}O{-}CH_2CH_2CH{=}CHCH_2Cl$

and

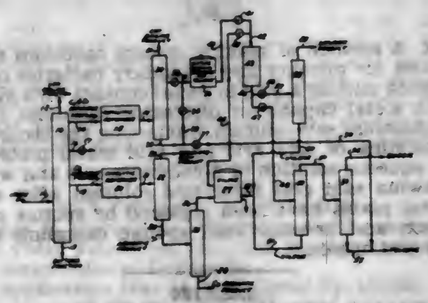
$CH_3{=}CHCHClCH_2CH_2{-}O{-}CH_2CH_2CHClCH{=}CH_2$

which comprises reacting, at a temperature from 0° C. to 50° C. and in the presence of a Friedel-Crafts catalyst, butadiene and sym.-chloromethyl ether, the reactants being present in the ratio of at least two moles of said butadiene to one mole of said sym.-chloromethyl ether.

2,653,174
PURIFICATION OF CHLOROCYCLOHEXANES
Georg Scheuing and Curt Vogelbach, Ingelheim am Rhine, Germany, assignors to Ernst Boehringer, Albert Boehringer, Julius Liebrecht, Ilse Liebrecht, born Boehringer, trading under the firm of C. H. Boehringer Sohn, Ingelheim am Rhine, Germany
No Drawing. Application September 22, 1949, Serial No. 117,258. In Germany July 4, 1949
3 Claims. (Cl. 260—648)

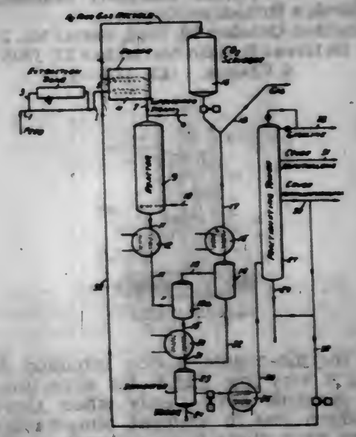
1. A process of purifying hexa-chlorocyclohexanes resulting from the addition of chlorine to benzene and containing higher chlorinated cyclohexanes comprising determining the amount of said higher chlorinated cyclohexanes present, adding thereto alkaline agents in amount sufficient to react with and cause aromatization of said higher chlorinated cyclohexanes but insufficient to reset with said hexachlorocyclohexanes, and recovering purified hexa-chlorocyclohexanes.

2,653,175
PREPARATION OF AROMATIC HYDROCARBONS
William H. Davis, Bala Cynwyd, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application May 4, 1951, Serial No. 224,466
14 Claims. (Cl. 260—668)



1. Method of producing high purity aromatic hydrocarbons which comprises distilling a petroleum stock to produce a fraction containing C_6 and C_7 naphthenes and another fraction containing C_8 naphthenes and boiling essentially below the boiling range of xylenes, contacting the first-mentioned fraction with a dehydrogenating catalyst under conditions effective to convert contained naphthenes to benzene and toluene, contacting the second-mentioned fraction with a dehydrogenating catalyst under conditions effective to convert contained naphthenes to xylenes, distilling reaction product resulting from the second contacting step to separate a xylene-rich product, passing the xylene-rich product to a source of supply, and recovering benzene and toluene from reaction product of the first contacting step by means of a cyclic operation in each cycle of which such reaction product is contacted with an aromatic-selective adsorbent to adsorb benzene and toluene while displacing xylene remaining in the adsorbent from the preceding cycle, after which the adsorbent is contacted with xylene-rich product from said source of supply to displace the benzene and toluene, collecting effluent from the adsorbent in two portions one of which is composed mainly of non-aromatic hydrocarbons and xylene and another of which is composed mainly of benzene, toluene and xylene, distilling each portion to recover xylene-rich product therefrom, returning xylene-rich product to said source of supply, and removing from the system xylene-rich product containing xylene used in said cyclic operation to thereby prevent progressive contamination of xylene by saturate hydrocarbons boiling above toluene.

2,653,176
PRODUCTION OF AROMATICS FROM PETROLEUM
La Vern H. Beckberger, East Chicago, Ind., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application May 10, 1950, Serial No. 161,212
6 Claims. (Cl. 260—672)

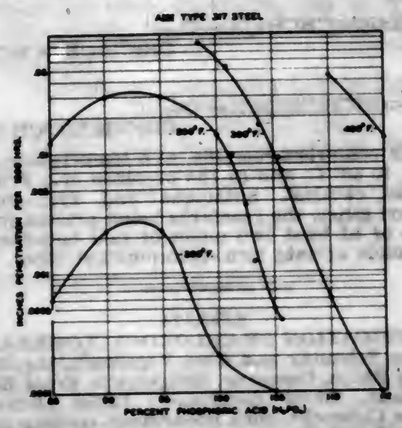


1. The method of converting higher molecular weight hydrocarbons fractions rich in alkylated fused-ring aromatic compounds to lower molecular weight hydrocarbons which comprises passing the hydrocarbon fraction into a reaction zone in the presence of a hydrogen-rich gas, steam and a catalyst prepared by combining a major amount of iron oxide with promoting amounts of chromia and a member selected from the group consisting of inorganic, oxygen-containing sodium and potassium compounds which afford their respective oxides under the reaction conditions and which is steam-insensitive, water gas-active and which promotes hydrodealkylation, at a liquid space velocity in the range approximating 0.1 to 5.0 volumes per volume of catalyst per hour, the hydrogen and steam each being present in the reaction in the amount of about 1 to 20 moles of each for each mole of the hydrocarbon fraction, maintaining the reaction

zone at a temperature in the range approximating 1200° to 1800° F., and separating the lower molecular weight hydrocarbons from the effluent reaction products.

2,653,177
INHIBITION OF PHOSPHORIC ACID CORROSION
Jacob D. Kemp, Richmond, and Henry P. Zeh, Berkeley, Calif., assignors, by direct and mesne assignments, to California Research Corporation, San Francisco, Calif., a corporation of Delaware
Application June 4, 1949, Serial No. 97,287
1 Claim. (Cl. 260—683.15)

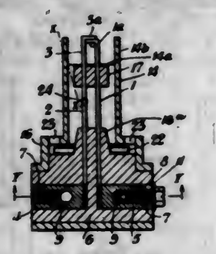
In an organic conversion process catalyzed by phosphoric acid at concentrations in excess of 100% calculated as orthophosphoric acid conducted at temperatures of at least 200° F. and superatmospheric pressures in a reaction vessel presenting metal surfaces in contact with said phosphoric acid of an austenitic steel containing 16–30% chromium, 7–20% nickel, at least ½% molybdenum and not in excess of 0.03% carbon, the method of inhibiting corrosive attack of said steel by said acid without inducing intergranular corrosion which comprises maintaining in solu-



tion in said acid a minor amount of copper between about 0.05 and 2.5 grams per liter of acid.

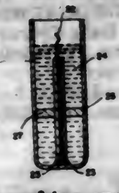
ELECTRICAL

2,653,178
THERMOCOUPLE DEVICE
William Harry Ruffle, Hove, England, assignor to Speed Development Company Limited, Hove, England, a British company
Application October 10, 1951, Serial No. 250,667
In Great Britain November 22, 1949
6 Claims. (Cl. 136—4)



1. A thermo-couple device intended for developing a very low E.M.F. for actuating a low E.M.F. operable device only when there is a very sudden rise in ambient temperature such as occurs when there is an outbreak of fire close to the thermo-couple device, comprising an insulated base, two thermo-electrically similar metallic wire elements extending into said base, a pair of terminals in said base receiving distinctive ones of said wire elements, a thermo-electrically contrasting metallic wire element bridging the aforesaid two wire elements and forming therewith a substantially elongated U-shaped connection of wires, an insulator through which one of the said pair of elements and also the said contrasting element pass, a tubular shroud open at both ends for the free circulation of air therethrough, an enlargement at one end of said tubular shroud fitted firmly upon and about said base but having a part spaced axially of the shroud from the base, and air inlet slotting in said enlargement between said base and the adjacent end of said shroud, said shroud surrounding said elements and insulator and spaced from said insulator to afford a continuous narrow air inlet gap around the insulator, the junction of the other end of said contrasting element being inside the shroud between the said base and said insulator.

2,653,179
PRIMARY BATTERY AND METHOD OF MAKING THE SAME
John H. Baldwin, Joplin, Mo.
Application July 26, 1951, Serial No. 238,737
5 Claims. (Cl. 136—24)



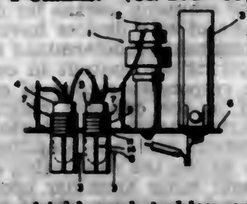
1. A method of making sponge cadmium electrodes for primary and secondary batteries comprising putting a grid in facial contact with plates of a metal capable of displacing cadmium from a cadmium salt solution, immersing the structure consisting of said grid and said metal plates in an aqueous solution of a cadmium salt and withdrawing said grid from said solution after said metal plates have been replaced by sponge cadmium and pressing said sponge cadmium into the grid openings.

2,653,180
ALKALINE STORAGE BATTERY AND PROCESS FOR PREVENTING ITS SELF-DISCHARGE
Harold W. G. Hignett and Paul Hersch, Birmingham, England, assignors to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware
Application June 7, 1952, Serial No. 292,272
In Great Britain June 22, 1951
5 Claims. (Cl. 136—25)

4. As a new article of manufacture, an alkaline storage battery having a positive nickel oxide plate, a negative iron plate and a zinc electrode in electrical connection with said iron plate and forming therewith during periods of idleness an auxiliary circuit completed through the alkaline electrolyte to prevent self-discharge of said iron plate.



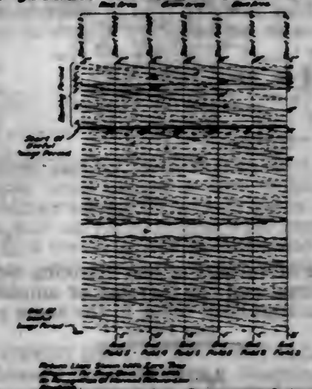
2,653,181
MINIATURE TUBE HOLDER
Lewis F. Millett, Detroit, Mich., assignor to Farnsworth Research Corporation, a corporation of Indiana
Application January 13, 1949, Serial No. 70,770
4 Claims. (Cl. 174—35)



1. A tube shield and holder adapted to be mounted in a threaded aperture of a radio chassis comprising, a sleeve, a threaded screw portion formed at one end of said sleeve for screwing and holding it within said aperture, a T-slot formed in the side of said sleeve, the head portion of the slot being transversely disposed adjacent the threaded portion and the leg portion of the slot extending longitudinally to the outer end of the sleeve thereby forming in said sleeve a pair of inwardly disposed longitudinal clamping elements adapted to securely hold the envelope of a radio tube against the inner wall of the sleeve.

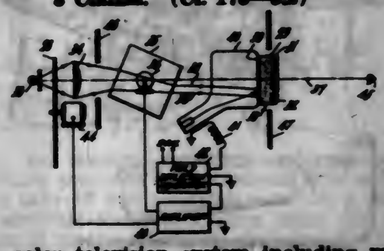
2,653,182
MULTICOLOR TELEVISION
George E. Sleeper, Jr., Berkeley, Calif., assignor to Color Television, Inc., San Francisco, Calif., a corporation of California
Application May 12, 1949, Serial No. 93,122
40 Claims. (Cl. 178—5.2)

1. In a color television receiver wherein odd-line interlaced line-sequential additive color television scanning rasters are traced upon a cathode ray image producing tube target under the control of a series of color control pulse signals between the major portion of which pulse signals video intensity modulation signals are present, the combination comprising signal selection circuits to derive from the received signals information to control the intensity of the scanning raster traced upon the tube target and information to time the bidirectional tracing of the rasters, means to cause the video modulation signals to initiate the image recreation in a cyclically repeating order of component colors of the additive process for each successive line trace to produce successive lines of the raster



in different component colors, and a color phase control circuit responsive to the color control pulses of the group to establish and shift from time to time the color order in which the raster lines are traced.

2,653,183
ADDITIVE COLOR TELEVISION
Alfred N. Goldsmith, New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application October 28, 1949, Serial No. 123,900
8 Claims. (Cl. 178—5.2)

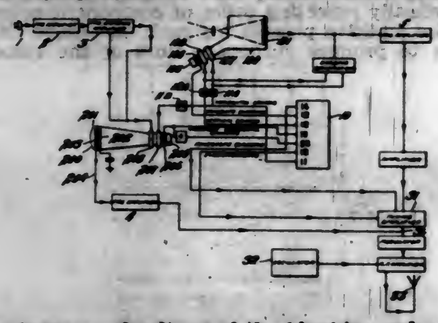


1. A color television system including means for successively forming differently colored light beams, means for forming an electron beam, an element which is initially transparent and is operable in response to its scanning by said electron beam to obstruct said light beams in the form of a decrescent image, means for restricting said light beams to a fractional part of the area of said element, means for moving said electron beam to scan said element, and means for moving said light beams across said element slightly in the rear of said electron beam.

2,653,184
TRANSMISSION OF PICTURE AND SOUND ON THE SAME CARRIER
James E. Robinson, Eggertsville, N. Y., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application January 3, 1948, Serial No. 499
5 Claims. (Cl. 178—5.6)

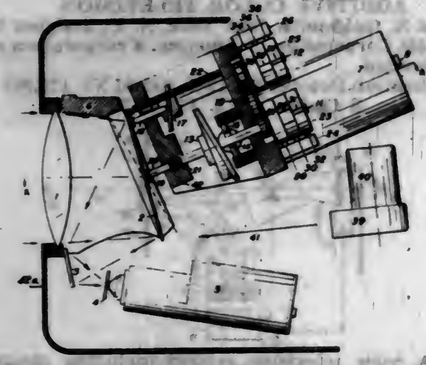
4. The combination of a generator of a video signal containing blanking pulses of one polarity including means for increasing the voltage level of said pulses, a generator of width-modulated pulses of the opposite polarity including means for increasing the amplitude of the pulses, connections from the outputs of said generators to a common junction point, means for generating a

periodic keying signal, and means for feeding the keying signal to both generators to control



the increase of voltage of the blanking pulses of the video signal and the increase of amplitude of the pulses so that both occur in the same periods.

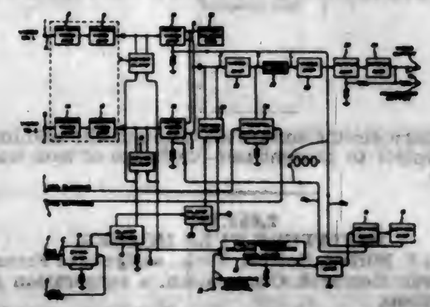
2,653,185
TELEVISION EQUIPMENT
Harry R. Lubcke, Hollywood, and Harold W. Jury, Burbank, Calif., assignors to Thomas S. Lee Enterprises, Inc., Los Angeles, Calif., a corporation of California
Application February 20, 1947, Serial No. 729,758
22 Claims. (Cl. 178—6.8)



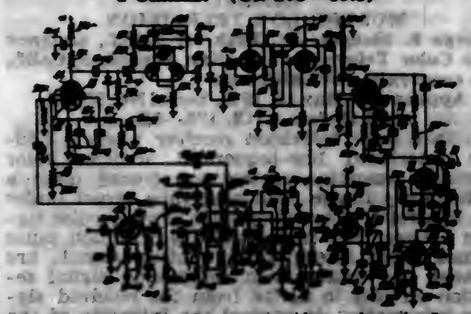
1. In a television apparatus wherein a radiant energy image of the field of view is formed and moved in two dimensions over a sensitive area of elemental size, a scanning device, means sensitive to said radiant energy, a housing enclosing said apparatus and means for preventing spurious signals which comprises means for conveying the radiant energy through a heterogeneous duct having surface characteristics homogeneous with respect to said radiant energy which is shaped to cause all radiant energy which falls upon said sensitive area to have originated in the field of view.

2,653,186
PLURAL CAMERA TELEVISION CONTROL SYSTEM
Winslow L. Hurford, North Syracuse, N. Y., assignor to General Electric Company, a corporation of New York
Application October 24, 1950, Serial No. 191,573
2 Claims. (Cl. 178—7.1)

2. The combination, in a television system in which a pair of images to be televised are scanned line by line, and in which said images are reproduced line by line on a remote screen, of a common transmission channel, a pair of individual channels each carrying signals varying in accord with respective ones of said images, a pair of electron discharge amplifiers each having an output circuit connected to said common channel and each having an input circuit connected to respective ones of said individual channels, each of said amplifiers including means responsive to a voltage of predetermined magnitude and polarity applied thereto for rendering said amplifiers nonconductive, a pair of electron discharge devices, circuit means for rendering each of said devices conductive when the other is nonconductive, circuit means for rendering conductive that one of said devices that is nonconductive whereby that device becomes conductive and the other device becomes nonconductive, circuit means for rendering said one device nonconductive again after a predetermined interval, said second circuit means including means for synchronizing the periods of conduction of said one device with said line by line scanning, means for deriving an output from one of said devices having an amplitude exceeding said predetermined magnitude, means for applying said output in one polarity to the voltage responsive means of one of said amplifiers and in the opposite polarity to the voltage responsive means of the other of said amplifiers, whereby said one amplifier becomes nonconductive during the conduction of said one device while said other amplifier becomes nonconductive and said other amplifier becomes conductive during the conduction of said other device while the said one amplifier becomes nonconductive, thereby line by line a portion of said one image and a complementary portion of said other image is produced on said remote screen.



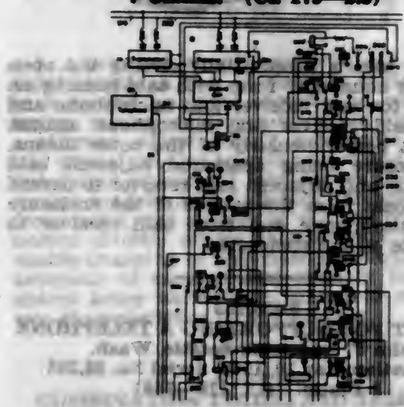
2,653,187
SYNCHRONIZING APPARATUS
David George Croft Luck and Leslie Lewis Burns, Jr., Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application April 4, 1950, Serial No. 153,823
4 Claims. (Cl. 178—69.5)



1. An apparatus for generating a burst of sampling frequency during the back porch interval

of a television signal comprising in combination a source of pulses occurring at line frequency, a gate pulse generator that is triggered by said pulses, a gate to which said pulses are applied, an oscillator of sampling frequency, connections for applying the output of said oscillator to said gate, means for generating pulses of a desired magnitude during the pulses provided by said gate pulse generator in response to said gating pulses, and means for combining the output of said gate and said latter means.

2,653,188
REMOTE-CONTROL SYSTEM
Willard A. Derr, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 1, 1951, Serial No. 208,925
7 Claims. (Cl. 179—2.5)



1. The combination with a two-frequency communication system having telephone apparatus at each of two stations connected to transmit communications through a transmitter at one station and a receiver at the other station operating on one carrier frequency, and a transmitter at the other station and a receiver at said one station operating on a different carrier frequency, of supervisory control equipment at each of said stations having at least one control point and including sending and receiving relays operable to select a point at one station from a corresponding point at the other in response to coded signals, circuit means connecting the sending and receiving relays at each station to operate the transmitter and operate from the receiver, respectively, circuit means including a relay connected to be responsive to initiation of a supervisory control operation from one station to effect disconnection of the telephone apparatus from the transmitter at said one station, and circuit means including a relay at the other station connected to be operable in response to operation of the supervisory control equipment at said other station from said one station to effect disconnection of the telephone apparatus from the transmitter at said other station.

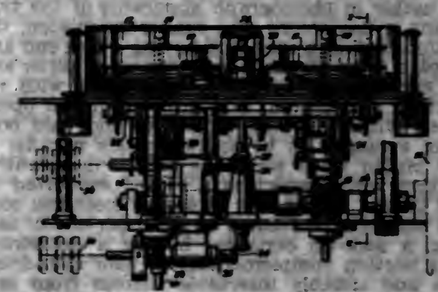
2,653,189
ELECTROMAGNETIC TRANSDUCER HEAD
Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill., a corporation of Illinois
Application February 12, 1948, Serial No. 7,981
4 Claims. (Cl. 179—100.2)

1. A unitary electromagnetic transducer head assembly comprising a member to receive a lengthy magnetizable record medium for travel in a predetermined direction thereover, a magnetic head having a magnetic core defining a non-magnetic gap whose transverse plane is disposed at an acute angle with respect to the direction of movement of said medium, said core being mounted to engage said medium as said medium



travels over said member, and an electromagnetic transducer head having a core defining a non-magnetic gap whose transverse plane is disposed substantially at right angles with respect to the direction of travel of said medium and positioned to engage said medium as it travels over said member.

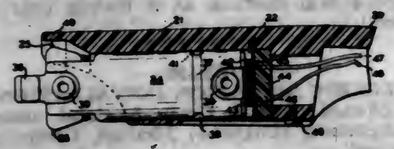
2,653,190
ELECTRIC DICTATION INSTALLATION
John Edward Godeck, Esher, England, assignor to Brecomin (England) Limited, Gillingham, England
Application January 16, 1951, Serial No. 206,122
In Great Britain May 5, 1948
13 Claims. (Cl. 179—100.2)



1. In an electric recording-and-reproducing installation provided with rotatable wire or tape-holding take-off and receiving reels and a wire or tape recording-and-reproducing head, the combination of means selectively operative for rotating the receiving reel to receive the wire or tape from the take-off reel during recording or reproducing and for rotating the take-off reel to rewind the wire or tape from the receiving reel, a first counting device, means for coupling the rotating means to the first counting device to drive the first counting device forward during the recording from a reference position to a predetermined position representative of the length of the recording and backward during the rewind from the predetermined position to the reference position, a second counting device, means for rendering the second counting device ineffective during the recording, means for coupling the rotating means to the second counting device to render the second counting device effective upon commencement of the rewind to count forward from a reference position during the rewind and backward during the reproduction, the first and second counting devices counting at the same speed, first switching means, means controlled by the first counting device for actuating the first switching means when, during rewind, the first counting device registers its reference position, an electric circuit controlled by the actuated first switching device for causing the rotating means to thereupon rotate the receiving reel and simultaneously to energize the recording-and-reproducing head for reproduction, second switching

means, means controlled by the second counting device for actuating the second switching means when, during reproduction, the second counting device registers its reference position, and an electric circuit controlled by the actuated second switching device for thereupon stopping the rotating means.

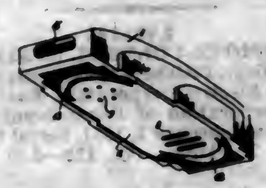
2,653,191
PICKUP CARTRIDGE AND TONE ARM ASSEMBLY FOR PHONOGRAPHS
Maurice Palo and Alexander L. Dvorsky, Conneaut, Ohio, assignors to The Astatic Corporation, Conneaut, Ohio, a corporation of Ohio
Application May 5, 1952, Serial No. 286,164
12 Claims. (Cl. 179—100.41)



1. In a tone arm and pick-up cartridge assembly usable in phonograph apparatus of the type having a flat record disc supporting platen, the combination of a tone arm having a free end and adapted to be pivotally mounted at its other end for vertical and horizontal movement with respect to said platen, said arm having an open-ended cylindrical bore in its free end, said bore being arranged to be approximately parallel to said platen when said tone arm is in operative position with respect to a record supported by said platen, a first pair of spaced electrical contact members positioned at the inner end of said bore, a pick-up cartridge having a cylindrical body portion complementary to said cylindrical bore and slidably insertable therein from said open end, said cartridge being rotatable within said bore when in an inserted position, said cartridge having an axially disposed electro-mechanical element therein and a pair of oppositely related record groove engaging stylii connecting said element and extending first radially and then axially therefrom, said tone arm having a cut-away lower portion and an interiorly annularly recessed upper portion at its extreme outer end whereby one of said stylii may be exposed for engagement with a record disc while the other of said stylii is received in said recessed upper portion, a second pair of contact members carried by said cartridge and extending rearwardly therefrom whereby to connect said electro-mechanical element to said first mentioned contact members when said cartridge is inserted in said bore, and cooperative detent means carried by said cartridge and said arm for releasably retaining said cartridge in inserted position in said bore, said detent means including a pair of detent stops wherein one or the other of said stylii are exposed for record engagement.

2,653,192
TELEPHONE APPARATUS
Edward Shipton, Ferndown, Northwood Hills, England
Application January 7, 1949, Serial No. 69,799
In Great Britain January 10, 1948
14 Claims. (Cl. 179—182)

1. A telephone hand-set, comprising an elongated hollow housing having an oblong external cross-section and being open and substantially flat at one side substantially parallel to the maximum diameter of said cross-section, a telephone receiver having a sound emitting means and a microphone lodged within the housing adjacent the two ends thereof respectively, the housing being formed internally with projecting portions engaging said receiver and microphone to locate them against movement parallel to the open side of the housing and substantially sheet-



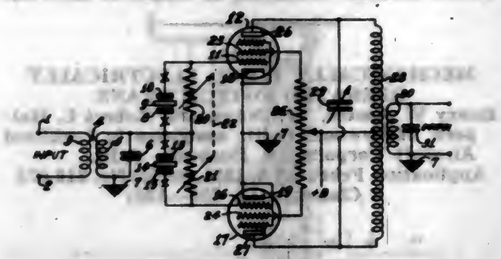
like cover means substantially closing the open side of the housing to form with said housing an enclosure for said receiver and microphone and holding said receiver and microphone against movement perpendicularly of the cover means, said enclosure being apertured adjacent said microphone and adjacent said receiver to permit sound to pass from the outside of the enclosure to said microphone and from said receiver to the outside of the enclosure.

2,653,193
HEADSET FOR SUPPORTING A TELEPHONE
John F. Andersen, Seattle, Wash.
Application May 10, 1949, Serial No. 92,398
1 Claim. (Cl. 179—156)



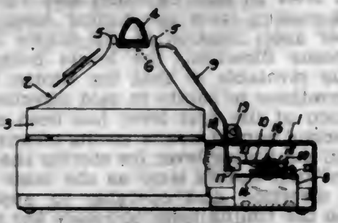
Means for supporting a telephone handset including a receiver and a transmitter, comprising a wide resilient and adjustable head band to encircle the head, the opposite ends of the head band overlapping, a clamp, the upper and lower ends of said clamp being bent over toward each other to snugly embrace and overlap the ends of the resilient head band, the upper turned-in bent portion of the clamp having aligned openings, a loop having its end portions extended outwardly to form pivots to fit in the aligned openings in the clamp, an adjustable collar to fit over the flanged end of the receiver end of the handset, the free ends of the collar being spaced apart, the edges of the collar having a series of spaced-apart inwardly extended radial lugs to fit over the flange of the receiver end of the handset, a hook pivoted at its upper end to the loop and having its lower end pivoted between the spaced-apart free ends of the collar, and a flexible connection extending downwards from the forward portion of the head band to engage and adjust the transmitting end of the handset up or down or sideways to fit the transmitter end of the handset to the mouth of different forms of faces.

2,653,194
SELECTIVE CIRCUIT
Walter Lyons, Flushing, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application May 27, 1949, Serial No. 95,623
2 Claims. (Cl. 179—171)



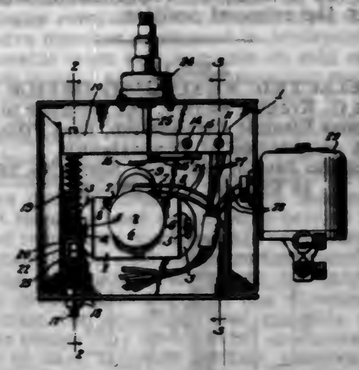
1. A selective circuit, comprising a source of input signals, a pair of electron control devices each having an input circuit and output electrodes, means coupling said output electrodes to a common output circuit, a separate piezoelectric crystal coupled to said source and to the input circuit of each of said devices, said crystals having predetermined slightly different resonant frequencies, and a separate variable resistor connected directly across each of said crystals to enable changing of the phase vs. frequency characteristic of each of said crystals, the two resistors being variable in unison to change the two characteristics in like manner.

2,653,195
COMBINATION TIMING AND TELEPHONE CIRCUIT CONTROLLING SYSTEM
Joseph J. Zimmermann, Milwaukee, Wis., assignor to The Electronic Secretary, Inc., Milwaukee, Wis., a corporation of Wisconsin
Application June 4, 1951, Serial No. 229,779
13 Claims. (Cl. 179—178)



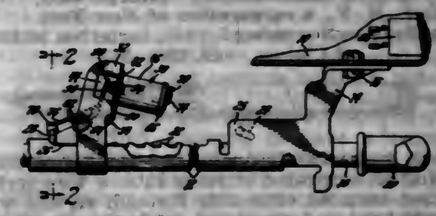
1. In a safety timing mechanism for a control circuit having a normal time period of operation, a normally closed switch in said circuit permitting operation thereof in repeat cycles of operation, switch engaging means, a motor responsive to current flow in said circuit and adapted to relatively move said switch and switch engaging means until the same engage each other for actuation of said switch, said motor-effected relative movement of said switch and switch engaging means being controlled by said switch and discontinued thereby upon engagement thereof in the event of operation of said motor and flow of current in said circuit beyond the normal time period of one cycle therefor, and means to separate said switch and switch engaging means upon discontinuance of said motor-effected relative movement, said switch being of a manual reset type to prevent recycling of the mechanism after said separation.

2,653,196
MODULATING PULSATOR
Ralph L. Cockman, High Point, N. C.
Application January 22, 1951, Serial No. 207,159
1 Claim. (Cl. 200—31)



In a modulating pulsator, a housing, an arm of U-shaped cross section in said housing, a pivotal mounting for one end of said arm, a compression spring abutting the other end of said arm and seating within the bight thereof, a pressure-responsive plunger abutting said arm at an intermediate point on the side opposite said spring, a contact carried by said arm on the side opposite said plunger, an eccentric rotatably mounted in said housing adjacent said contact, said eccentric comprising a second contact, electrical means associated with said first and second contacts whereby upon engagement of said first contact with said eccentric a circuit is closed, means for rotating said eccentric at a constant speed, and means for varying the pressure exerted by said spring whereby to vary the pressure required to be exerted by said plunger to maintain said first contact in engagement with said eccentric for a predetermined portion of each arc of rotation thereof.

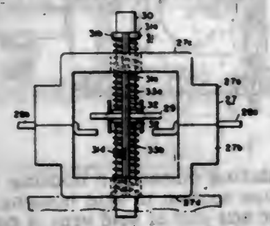
2,653,197
PARKING BRAKE INDICATOR LIGHT
Henry S. Kaweski, Orionville, and Chester J. Glowinski, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 18, 1950, Serial No. 201,498
9 Claims. (Cl. 200—61.27)



1. In a hand brake warning system, a tubular supporting bracket, a hand brake actuating rod mounted for reciprocation and rotation in said tubular supporting bracket, means on said rod and said tubular bracket to limit the reciprocation between a released position at one end and an applied position at the other end and rotation between a detent engaged and disengaged position of said actuating rod, a support secured to said tubular bracket transversely of said tubular bracket between said released and applied position, a switch attached to said support and

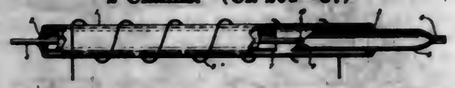
having an actuating button, said switch being connected when said button is extended, a bell crank lever pivoted to said support with one end engaging said switch button to disconnect said switch and the other end engaging said means on said rod to limit the reciprocation when the rod is in the released position.

2,653,198
ELECTRIC SWITCHING DEVICE
Vincent G. Krenke, Beaver, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 22, 1952, Serial No. 267,545
10 Claims. (Cl. 200—67)



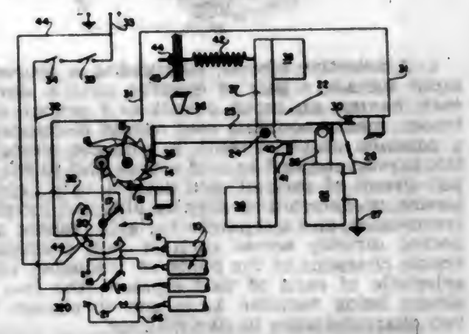
1. An electrical switch interlock comprising, a casing having openings through opposite end faces thereof, guide means slidably supported in said openings, a plunger slidably mounted in said guide means and projecting out of said guide means at each end of said casing, spring means axially disposed of and mounted on said plunger, said spring means having displaceable end portions on said plunger adjacent confronting portions of said guide means, stationary contact means mounted in said casing, movable contact means mounted on said plunger to move therewith between positions engaging and disengaging said stationary contact means, the outer end faces of said guide means defining a dimension therebetween greater than the dimension between said end faces of said casing, said guide means being movable between two positions in said casing and moving said plunger therewith, affording selectively normally open and normally closed positioning of said movable contact with respect to said stationary contact means.

2,653,199
RELAY
John T. L. Brown, Short Hills, N. J., and Walter B. Ellwood, New York, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 5, 1948, Serial No. 58,522
2 Claims. (Cl. 200—87)



1. A magnetically operated relay device comprising an elongated vitreous tube, a wire spring contact member extending through an end wall of said tube and supported solely therein by the seal between said tube and said member, a hollow contact member extending into the other end wall of said tube and supported and positioned therein solely by the seal between said hollow tube and said member, said hollow tube having an interior opening of adequate diameter for the insertion of a jig therethrough to hold said wire spring member into a desired close spacing relation with respect to said hollow member during sealing, the interior end of said hollow member being cut off at an angle such that one side of its end lies opposite to the end of the wire spring member for making a contact and the other side of its end is spaced away lengthwise from said end of the wire spring member, and the outer end of said hollow cylindrical member being collapsed to form an airtight seal, said wire spring member and said hollow member consisting of magnetic material.

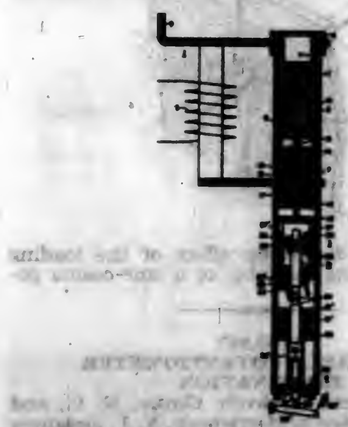
2,653,200
MECHANICALLY TIMED ELECTRICALLY OPERATED SWITCH MEANS
Henry W. Foster, Van Nuys, and Robert L. Halpern, Hollywood, Calif., assignors to Lockheed Aircraft Corporation, Burbank, Calif.
Application February 8, 1951, Serial No. 210,078
8 Claims. (Cl. 200—105)



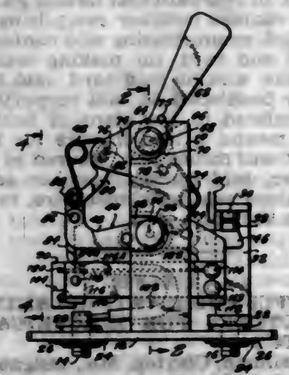
1. In combination, a multi-position switch having a contactor movable from position to position, a rotatable shaft for moving the contactor and carrying ratchet teeth, a first pivoted lever, electrically energized means for rotating the lever in one direction, means for positively arresting rotation of the lever in said direction, a pivoted timing lever, a lost motion connection between said levers transmitting motion from the first lever to the timing lever during rotation of the first lever in said direction and adapted to transmit motion from the timing lever to said first lever upon rotation of the timing lever in the opposite direction, the levers being independently pivotable so that the timing lever is free to continue to rotate in said direction after the motion of the first lever has been arrested by the second named means, spring means associated with the timing lever for storing the kinetic energy of said timing lever as the same rotates in said direction and operable to apply said energy to the timing lever to rotate the same in said opposite direction, and a pawl on said first lever cooperating with said teeth to rotate said shaft when the first lever is rotated in said opposite direction by said kinetic energy transmitted from the spring means.

2,653,201
INTEGRATOR MECHANISM FOR LINE SECTIONALIZERS
James M. Wallace and Andrew W. Edwards, East McKeesport, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 21, 1950, Serial No. 175,274
17 Claims. (Cl. 200—109)

16. An integrator mechanism comprising: an operating member having three operating positions, biasing means actuating said member to one of the positions, electromagnetic means for moving said operating member to another one of the positions in response to a current value within a normal current range and for moving said operating member to the other of the positions in response to a current in excess of said normal range, a movable counter-member normally disposed in a rest position, means operatively connecting the operating-member and the counter-member for imparting a one way step-by-step advance of said counter-member in response to repeated movements of said operating-member to said other of the positions, and means operable in response to movement of the operating-member to its other extreme position to effect return of the counter-member to its rest position.

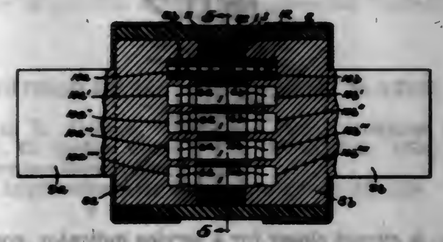


2,653,202
AUTOMATIC CIRCUIT BREAKER WITH COMPENSATION PROVISION FOR AMBIENT TEMPERATURE AND MECHANICAL SHOCK
Thomas M. Cole, New York, N. Y., assignor to Federal Electric Products Company, Newark, N. J., a corporation of Delaware
Application June 29, 1951, Serial No. 234,303
20 Claims. (Cl. 200—116)



4. In a circuit breaker having relatively movable contacts engageable with and disengageable from each other for making and breaking the circuit, a movable member carrying one of said contacts and mechanism, including a current responsive flexible bimetal latch and a companion releasable catch in predetermined relation, for actuating said movable member to make and break the circuit under the control of said latch and catch; means in combination with said latch for compensating for flexing of said bimetal in response to ambient temperature variations, whereby to substantially neutralize the effect of ambient temperature variations on said latch, said means comprising a compensating thermal responsive member positioned in juxtaposition to said bimetal latch and operable on said catch in response to said ambient temperature variations for concomitantly moving said catch in relation to said latch for maintaining said predetermined latch and catch relation substantially constant throughout a range of ambient temperatures, said latch bimetal and said compensating thermal responsive member being carried by said movable contact member, said catch being carried by said thermal responsive member, said catch being pivotally movable on said compensating member and normally releasably restrained by said latch against pivotal movement in one direction, said mechanism for actuating said movable contact member comprising an actuator operatively connected to said movable contact member under the control of said catch when the latter is restrained by said latch, and manually operable means operatively connected to said actuator for moving the latter and thereby moving said movable contact member to engage and disengage said contacts.

2,653,203
CURRENT-LIMITING FUSE
Frederick J. Kozacka, Amesbury, Mass., assignor to The Chase-Shawmut Company, Newburyport, Mass., a corporation of Massachusetts
Application January 30, 1951, Serial No. 208,548
27 Claims. (Cl. 200—120)



1. A current-limiting fuse comprising a pair of link sections each consisting of a unitary strip of sheet metal, and each having a reduced cross-section portion of different cross-sectional area, one of said pair of link sections having a reduced cross-section portion of relatively large area being adapted when surrounded by a pulverulent arc-extinguishing material to have a required current-carrying capacity but having an excessive let-through current, the other of said pair of link sections having a reduced cross-section portion of relatively small area and a smaller let-through current than said one of said pair of link sections, and cooling means associated with said other of said pair of link sections sufficiently effective to keep the overload current carrying capacity thereof above the overload current carrying capacity of said one of said pair of link sections, said pair of link sections being serially arranged in a common pulverulent filler filled casing to combine required current-carrying capacity and required let-through current characteristic.

2,653,204
EQUALIZING DEVICE FOR AIR CURRENT IN AIR BLAST CIRCUIT BREAKERS
Haaken Forwald, Valhalla, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation
Application January 17, 1950, Serial No. 139,062
In Sweden January 27, 1949
2 Claims. (Cl. 200—148)



1. An air blast circuit breaker comprising fixed and movable contacts, a casing surrounding one of said contacts and enclosing an annular passage for the supply of extinguishing air to the arc gap between the contacts, and a plurality of air separating members arranged in the form of an annulus and in closely spaced relation to each other to counteract whirling motions in the extinguishing air before such air passes from said annular passage to the arc gap.

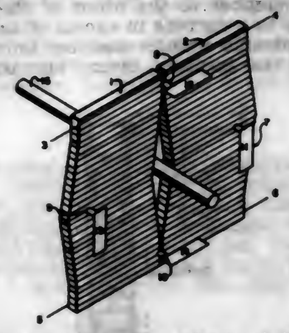
2,653,205
LUBRICATION WARNING SIGNAL SWITCH
Alexander Kellenbenz, Browns Mills, N. J.
Application April 14, 1950, Serial No. 155,965
5 Claims. (Cl. 200—153)



1. A circuit closer for a service indicator, comprising a rotatable arm provided with a stop, a shaft rotatable with a vehicle wheel, a reduction gear chain, a disc in frictional engagement with one of the gears of said chain and provided with a contact engageable with said stop in one direction of rotation and operative to engage said first contact as said disc is rotated by said gear chain, said disc being provided with an axial extension journalled in said arm by which said disc can be manually rotated reversely until it engages said stop as a starting point for normal rotation, and means to maintain said arm and said stop in a normally fixed position.

2,653,206
VARIABLE VOLTAGE DEVICE
James L. Montgomery, Indianapolis, Ind.
Application September 26, 1951, Serial No. 248,419
5 Claims. (Cl. 201—48)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. An aeolotropic resistance card constructed by stacking alternate layers of conducting material and resistance material, having a center hole, having the outside contour shaped to offset the effect of the central hole and further shaped



to reduce the disturbing effect of the loading when used in the assembly of a sine-cosine potentiometer.

2,653,207
ADJUSTABLE POTENTIOMETER TERMINATION
Howard L. Coyne, Rockville Centre, N. Y., and Orwar S. A. Mesch, Morristown, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 15, 1950, Serial No. 201,044
5 Claims. (Cl. 201—56)

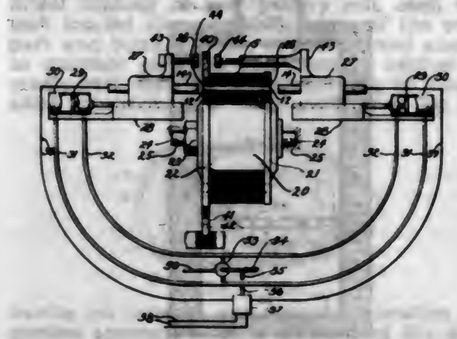


1. In an electrical resistance device comprising a card of insulating material and a resistance wire wound in a plurality of convolutions on said card, an adjustable brush in engagement with said resistance wire, a casing, means in said casing for supporting said card, a supporting member positioned in said casing in juxtaposition with respect to said card and having guide means thereon, a contact member comprising a frame and a contact, means biasing said contact against an edge of said card, for making contact with the resistance wire on said card, said frame being slidably positioned on said supporting member and confined in the plane of said card by said guide means, a lead-in wire for establishing an electrical connection, secured to said contact member, said contact member adapted to be moved along said resistance wire, to vary the termination thereof.

2,653,208
APPARATUS FOR RIVETING LAMINATED STRUCTURES FOR ELECTRICAL APPARATUS
Edwin C. Ballman, Clayton, Mo., assignor to Ballman Engineering Company, Clayton, Mo., a corporation of Missouri
Application August 17, 1946, Serial No. 691,259
1 Claim. (Cl. 219—3)

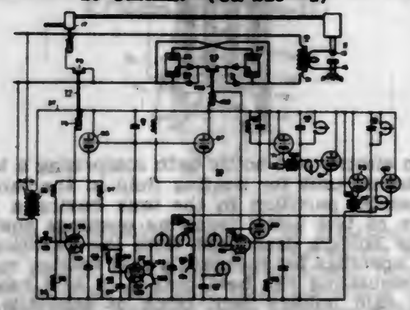
A machine for making a stator for an electric motor, said stator being made up of a multiplicity of aligned perforated laminae with bars, within the perforations, traversing the laminae and with the ends of the bars protruding beyond the outer

laminae, comprising a mandrel upon which the laminae are concentrically mounted, said mandrel being rotatably mounted and provided with a datum plate, a pair of electrodes mounted for movement toward opposite sides of said stator and provided with stop means to engage said datum plate when said electrodes have advanced a predetermined distance toward said stator, po-



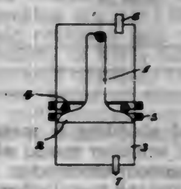
sitioning means for holding the stator and mandrel in position against rotation to allow each of said bars to be engaged successively by the said electrodes, and a switch which, when actuated, successively moves said electrodes against a bar with a predetermined pressure and supplies electric current to the electrode while maintaining said pressure.

2,653,209
ELECTRONIC TIMER
Edward C. Hartwig, Lancaster, and Hubert W. Van Ness, Buffalo, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 19, 1950, Serial No. 180,366
18 Claims. (Cl. 219—4)



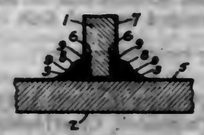
18. A sequence timer for controlling high-speed operation of a welder having a pair of welding electrodes, means for moving said electrodes into and out of engagement with work, and means for supplying welding current through said electrodes to said work, characterized by a squeeze network for determining the time interval between the engagement of said electrodes and said work and the supply of said welding current, said network including a first capacitor in circuit with a first timing resistor; means for charging said capacitor, said charging means operating to maintain said capacitor charged at the beginning of a welding operation; a closed-time network for determining the time during which said electrodes remain in engagement with the work including a second capacitor in circuit with a second timing resistor; means for charging said second capacitor, said last-named charging means operating to maintain said second capacitor charged at the beginning of a welding operation; and means for interrupting the charging of both said capacitors simultaneously at predetermined time intervals after the welding operation is started.

2,653,210
METHOD FOR PROVIDING METALLIC ARTICLES WITH A PROTECTIVE WORK SURFACE LAYER
Gottfried Böcker, Buderich, near Duesseldorf, and Fritz Steinberg, Duesseldorf-Eller, Germany, assignors to Deutsche Edelstahlwerke, Krefeld, Germany, a corporation of Germany
Application February 6, 1951, Serial No. 220,768
10 Claims. (Cl. 219—10)



6. The method of uniting a metallic layer to a metallic valve which includes shaping the layer in the form of a ring, positioning the ring around the valve, electrically heating and melting the layer in a non-oxidizing atmosphere and in a high frequency electrical field created by an induction coil embracing the ring, controlling the heating so that the body of the valve is heated to a lesser extent and retains its solid form, rotating the valve about its axis during the heating operation, and while the metallic layer is solidifying, pressing it onto the surface of the valve to provide a protective covering therefor.

2,653,211
METHOD OF MANUFACTURING PLATED ARTICLES
Orrin E. Andrus, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application July 5, 1951, Serial No. 235,170
8 Claims. (Cl. 219—10)



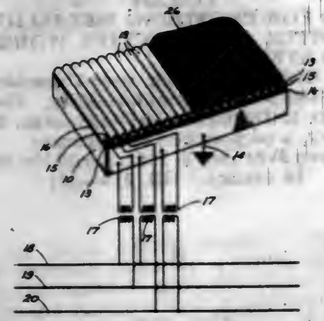
1. In a method of fabricating a plated article, the steps of providing a layer of corrosion-resistant metal on a ferrous metal base member in the region of a proposed joint between the ferrous metal base member and a second member, thereafter plating the base member with corrosion-resistant plating metal, said plating metal overlapping said corrosion-resistant layer, and then making a corrosion-resistant weld between the corrosion-resistant layer and said second member, the edge of the weld being spaced from the edges of the corrosion-resistant layer adjoining said base member, with any cracks occurring in said plating metal adjacent said weld tending to expose said corrosion-resistant layer to corrosion rather than the base member.

2,653,213

PROCESS OF MAKING COMPOSITE METAL

Robert E. Kinkead, Shaker Heights, Ohio, assignor to The Cleveland Trust Company, Cleveland, Ohio, a corporation of Ohio, as trustee

Application August 8, 1951, Serial No. 240,924
20 Claims. (Cl. 219—10)



1. A process of cladding a metallic slab with a bonded layer of another metal which comprises positioning elongated electrodes of said other metal in closely spaced parallelism flat upon the surface of a slab with the interposition of a thin layer of insulative substance between the assembled electrodes and the surface of the slab, the respective electrodes being insulated from each other, the effective mass of the electrodes overlying the slab being equal to the mass of said other metal desired to be deposited upon the slab in the area so overlayed, the mass of the slab in said area being substantially larger than the mass of said electrodes therein, connecting said slab and said electrodes respectively to sources of electric current of different potential so as to build up differences of potential between said slab and individual electrodes, starting electrical discharges between the slab and the individual electrodes at one end of the electrodes whereby to produce melting of the electrodes and surface portions of the slab in a line across one dimension of the slab, maintaining said line of discharges submerged in a covering blanket of slag, and adjusting the current for said individual discharges to produce a progressive end-to-end melting of said electrodes and the surface of said slab to produce in said line a continuous pool of molten metal containing melted portions of said electrodes and slab, and freezing said pool on said slab to form a coating of clad metal welded to said slab.

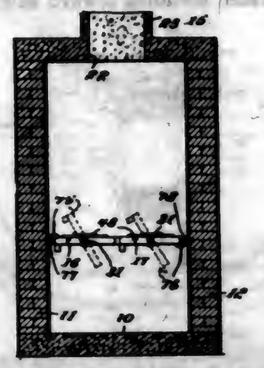
2,653,213

ELECTRICALLY OPERATED INCINERATOR

Willard F. Comstock, Charleston, W. Va.

Application October 23, 1951, Serial No. 252,757
2 Claims. (Cl. 219—19)

1. An electrically operated incinerator comprising a housing including a horizontally disposed base, a pair of spaced parallel vertically disposed side walls, a vertically disposed front wall and rear wall, and a top wall, a plurality of grates pivotally mounted in the front and rear walls of said housing, each of said grates including a pair of spaced parallel end bars, a plurality of spaced parallel rods extending between said bars and secured thereto, sleeves supported in said front wall, hubs extending from said end bars and journaled in said sleeves, sprockets operatively connected to said hubs, a motor arranged exteriorly of said housing, a shaft driven by said motor, a sprocket on said shaft, an endless chain trained over said sprockets, a clutch element for controlling actuation of said motor shaft, a solenoid for controlling said clutch element whereby said grates may be rotated by the motor, each of said grates being provided with a heating element connected to a source of supply of current, said heating elements being positioned below the upper surfaces of the grates,



a clock controlled timing device including a disc, an arm rotatably arranged contiguous to said disc, contacts extending from said disc and connected to said motor, heating elements, and solenoid, said contacts being selectively engaged by said arm to energize said heating elements and motor sequentially.

2,653,214

ELECTRIC TEST BOTTLE BATH

George E. Shaw, Neillsville, Wis., assignor of one-half to A. A. Morgan, Neillsville, Wis.

Application February 16, 1951, Serial No. 211,297
1 Claim. (Cl. 219—43)



An electric test bottle bath comprising a tank, a heating unit for heating fluid in the tank, a horizontal partition in the tank having a plurality of test bottle receiving openings therein, bottle holders dependent from the partition at said openings for supporting said bottles, means for regulating the heat output of said heating unit, said holders each being of vertically extending cylindrical shape and having an integrally formed bottom, and said holders and bottoms being formed of screen material, and a fluid circulating baffle mounted within the tank and above the bottom thereof, said heating unit being located below said holders and baffle and at the bottom of the tank.

2,653,215

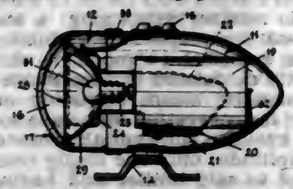
ELECTRIC BATTERY LAMP

Leonard A. Seiss, Toledo, Ohio, assignor to The Seiss Manufacturing Company, Toledo, Ohio, a corporation of Ohio

Application February 15, 1952, Serial No. 271,766
1 Claim. (Cl. 240—7.55)

In an electric battery lamp having a housing comprising an open-ended elliptic parabaloid shell of circular section with a ported cylindrical

sleeve closure telescopically engaging the surfaces of said shell adjacent to its open end and an electric battery cell, a lens, and a reflector within said housing, the provision of a battery cell holder comprising a sheet metal blank having integral cradle, wing and leg parts; the cradle part extending lineally and arcuately in section and adapted to approximate the cylindrical contour of said battery cell, each wing part located along opposite edges of the cradle part and being arcuate in section and adapted to embrace said cell and clasp it against the cradle part, each leg part comprising an integral axial extension of a wing part; each leg part



having an integral and arcuate extending foot portion approximating a segment of the sleeve closure inner surface, each foot portion having a plurality of radially arranged beads along the edge of said foot, a tongue on one foot portion adapted to engage said sleeve closure and hold one edge of said foot portion spaced from the sleeve closure port a distance greater than the total edge thickness of the lens and reflector elements thereby to provide a bezel groove between said beads and the sleeve closure port to receive said lens and reflector edges and support said lens and reflector.

2,653,216

CHRISTMAS TREE ORNAMENT ASSEMBLY AND SUPPORTING MEANS THEREFOR

William F. Protz, Manitowoc, Wis.

Application November 14, 1949, Serial No. 126,955
3 Claims. (Cl. 240—10)



1. An ornament adapted to be attached to a tree or the like comprising a rearwardly apertured hollow lightweight ornamental form, a collar integral with said form projecting rearwardly therefrom about said aperture, a holder tube for a bulb and socket assembly mounted within said collar and a relatively stiff wire support adapted at one end for attachment to the tree and having its other end tightly looped about said collar to bind said collar and tube together in fixed assembly.

2,653,217

PROJECTION LAMP HOLDER

Robert E. Ulrich, Riverton, and Vesper A. Schlenker, Camden, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application November 29, 1949, Serial No. 130,013
6 Claims. (Cl. 240—52)

1. In a projection lamp holder, the combination of a retainer having a cylindrical inner surface and an aperture in a side thereof for the transmission of light, an electric bulb having a filament therein, and a housing for said bulb, said housing being slidably mounted within said retainer and having an opening in a side thereof for the transmission of light, said bulb being mounted within and held by said housing with said filament disposed opposite to and in registry with said housing opening, cooperative



means on said retainer and said housing for locking said housing and said bulb in fixed position within said retainer, said means being oriented with respect to both said openings in a manner to align said openings one with the other, and said housing being so disposed within said retainer that said retainer supports said housing throughout at least a major portion of its length.

2,653,218

BARREL, REFLECTOR BASE, AND ASSOCIATED PARTS FOR ELECTRIC LANTERNS

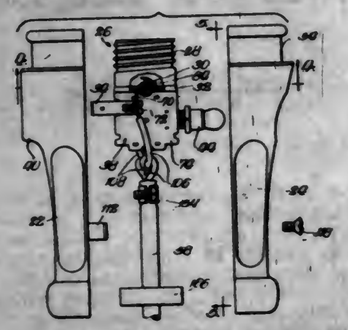
John B. Schilling and Forrest F. Jones, Portland, Oreg.

Application April 1, 1950, Serial No. 153,382
1 Claim. (Cl. 240—10.63)



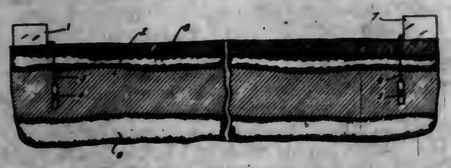
An electric lantern comprised of an upright cylindrical barrel having an inturned flange at its lower end and having a plurality of leg receiving depressions formed in the outer surface of the lower end thereof spaced from said flange, channel-shaped legs having flanges at their upper ends secured in said depressions, a wire base ring contacting the lower ends of said legs, each of said legs having a foot formed thereon wrapped around said ring, a combined reflector and switch, circular in form, free to slide within said barrel and capable of moving into position between said flange and depressions by the distortion of said barrel, said barrel having a pair of opposite depressions formed in the outer side thereof at approximately the middle of the length of the barrel, a pair of swivel bosses, each having a flange adapted to occupy one of said last mentioned depressions and secured therein, an arcuate rubber covered wire handle having flared circular ends journaling on said swivel bosses, said bosses and handle ends having registering depressions and points formed on their adjacent sides for releasably holding said handle in an upright position, and a screw cap for the upper end of said barrel.

2,653,219
HANDLE WITH OUTLET AND SWITCH FOR PORTABLE LAMPS
Rudolf Popp, Valparaiso, Ind., assignor to McGill Manufacturing Company, Inc., Valparaiso, Ind., a corporation of Indiana
Application June 14, 1949, Serial No. 99,001
2 Claims. (Cl. 240—54)



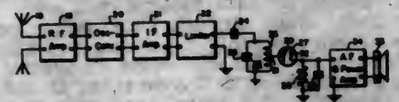
1. In combination in a portable electric lamp, a handle comprising a pair of one-piece molded complementary handle sections each with a lower gripping portion, one of said sections having receptacle openings therein above the aforesaid gripping portion for receiving an electric plug and said handle having an opening for an electric switch actuator above the aforesaid gripping portion displaced angularly from the aforesaid receptacle openings; a unitary assembly including a lamp socket, a switch, a rectangular mounting plate interposed between said socket and switch, receptacle prongs, and a switch actuator; said handle sections together providing an internal cavity portion for receiving said rectangular mounting plate and of such a configuration as to prevent any longitudinal and rotational movement of said plate in said handle; and said switch actuator and receptacle prongs being positioned in said assembly respectively to extend through the aforesaid switch-actuator opening in said handle and into the receptacle openings in the aforesaid handle section, whereby said switch actuator and receptacle openings are disposed contiguous one another above the aforesaid gripping portion of said handle for convenient use in the utilization of the portable lamp.

2,653,220
ELECTROMAGNETIC WAVE TRANSMISSION SYSTEM
Carl A. Bays, Urbana, Ill.
Application October 21, 1949, Serial No. 122,803
10 Claims. (Cl. 250—3)



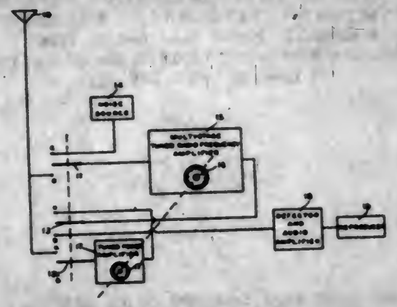
1. A wave transmission-reception system, comprising transmitter means, means for introducing waves from said transmitter into a uniform lithologic stratum of high resistivity bounded on either side by lithologic formations of greater conductivity so as to form, in effect, a wave guide, and means for receiving said waves from said lithologic stratum.

2,653,221
SUPPRESSED CARRIER RADIO COMMUNICATION SYSTEM
Chalon W. Carnahan, Albuquerque, N. Mex., assignor to Zenith Radio Corporation, a corporation of Illinois
Application December 1, 1949, Serial No. 130,547
4 Claims. (Cl. 250—6)



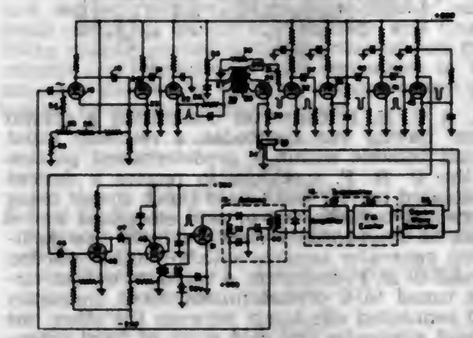
2. A radio receiver comprising: a source of a suppressed-carrier amplitude modulated carrier wave having a sideband component which is angular-velocity modulated in accordance with intelligence signals; means including an amplitude limiter for converting said wave to a modulated wave having a substantially constant peak-to-peak amplitude; only one singly resonant device coupled to said limiter and having a natural frequency corresponding to the carrier frequency of said converted wave for deriving therefrom a modified wave which is amplitude modulated in accordance with said signals; and an amplitude-modulation detector coupled to said resonant device for demodulating said modified wave.

2,653,222
RADIO JAMMING DEVICE
Everard M. Williams and Edwin V. Cossy, Dayton, Ohio
Application August 4, 1944, Serial No. 548,120
1 Claim. (Cl. 250—13)
(Granted under Title 35, U. S. Code (1952), sec. 266)



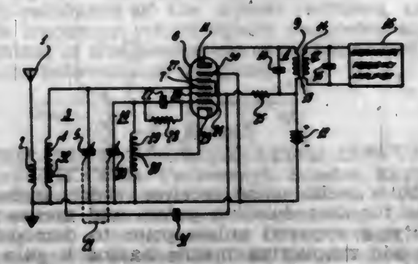
In a radio jamming system, a network having a detector, an audio-frequency amplifier coupled to said detector and a reproducer coupled to said audio-frequency amplifier, a tuned power amplifier, a multi-stage tuned radio frequency amplifier, means interconnecting said radio frequency amplifier and said power amplifier for tuning said amplifiers in unison, a radio frequency noise generator, antenna means, and a ganged three pole, two position switch; the first pole having the movable contact connected to the input of the multi-stage tuned radio frequency amplifier, said noise generator connected to one stationary contact and said antenna means connected to the other stationary contact, the second pole having the movable contact coupled to the output of the multi-stage tuned radio frequency amplifier, one stationary contact connected to the output of said tuned power amplifier and the other stationary contact connected to said network, the third pole having the movable contact connected to the input of the tuned power amplifier, a stationary contact coupled to said antenna means, where in one switch position the antenna, multi-stage radio frequency amplifier, detector, audio amplifier and reproducer are connected, in the order named, for radio frequency signal reception; and in the other switch position the noise generator, multi-stage radio frequency amplifier, tuned power amplifier and antenna are connected, in the order named, for radio frequency noise transmission.

2,653,223
ANTENNA TUNING CONTROL FOR RADIO TRANSMITTERS
Henry A. Musk, Glen Burnie, and John G. Hammond, Baltimore, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 13, 1950, Serial No. 195,246
14 Claims. (Cl. 250—17)



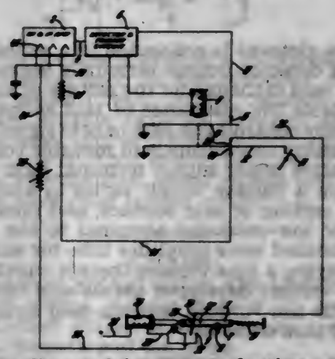
6. In combination, a source of variable frequency, radio frequency current, a load circuit coupled to said source, a reactance tube having an anode connected to said circuit, and having a control electrode, means for frequency modulating said source, means utilizing voltage derived from said source and providing a voltage pulse which is 90° out-of-phase with the voltage of the current at said anode and which has a duration substantially less than a quarter-cycle thereof, and means controlled by said modulating means for applying said pulse to said control electrode.

2,653,224
FREQUENCY CONVERTER SYSTEM
Benjamin S. Vilkomerson, Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 29, 1949, Serial No. 90,416
7 Claims. (Cl. 250—20)



1. A frequency converter system, comprising, an electron discharge local oscillator and frequency converter device having a cathode, an oscillator grid, an oscillator anode, a signal grid and an output anode, an input resonant circuit tunable to a desired frequency and being connected between said signal grid and a point of fixed reference potential, a frequency-determining circuit tunable to a predetermined oscillator frequency and coupled between said oscillator anode and said oscillator grid and to said point of fixed potential, said cathode being connected to an intermediate point of said frequency determining circuit, an output resonant circuit tuned to an intermediate frequency and coupled to said output anode, and a regenerative circuit connection between said oscillator anode to said input resonant circuit at a point above said point of fixed reference potential.

2,653,225
SIGNAL ACTUATED TUNER CONTROL
James H. Guyton, Kokomo, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 22, 1949, Serial No. 106,224
12 Claims. (Cl. 250—20)

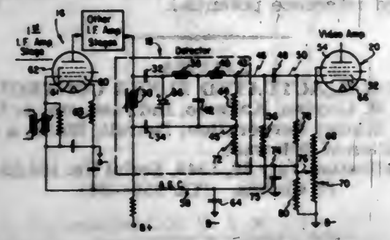


1. In radio receiving means having amplifying means, detector means and power actuated means for repetitively scanning the frequency spectrum between prescribed limits for incoming signals, a limit switch connected to ground and to the amplifying means to complete the circuit therefor, said switch having a movable arm, means for mounting said switch arm adjacent the power actuated means, means on the power actuated means engaging said switch arm in different positions of the power actuated means, said engagement moving said switch arm to a plurality of positions by movement of the power actuated means to extreme positions to open said switch at one extremity of travel and deenergize the amplifier during travel of the power actuated means in one direction.

2,653,226
AUTOMATIC GAIN CONTROL SYSTEM
Lawrence J. Mattingly, Lombard, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois
Application August 20, 1949, Serial No. 111,468
8 Claims. (Cl. 250—20)

1. In a receiver for modulated carrier waves having a power supply with positive and negative terminals, the combination of a modulated wave amplifier including a tube having a control grid and a cathode, with said cathode being connected to said negative power supply terminal and said grid being adapted to vary the gain of said amplifier as the bias voltage of said grid with respect

to said cathode is varied, a detector for demodulating the wave amplified by said modulated wave amplifier, said detector including rectifier-filter means having a high-potential output terminal and a low-potential output terminal, a detected signal amplifier including a tube having a grid coupled to said low-potential terminal of said detector and also having a cathode, a resistance element connected at one end thereof to the cathode of said signal amplifier tube and connected at the other end thereof to the negative power supply terminal, a movable contact cooperating with said resistance element, means connecting said movable contact to the high-potential terminal of said detector, so that a variable portion of said



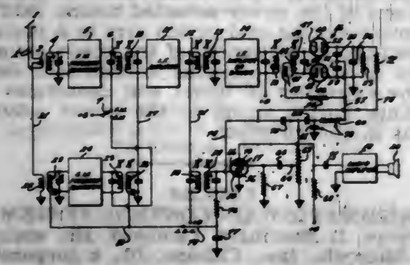
resistance element is connected in a series circuit with said detector output terminals between said grid and said cathode and the setting of said contact controls the resistance of said series circuit and thereby controls the gain of said signal amplifier, a resistor connecting said movable contact to said negative power supply terminal, said resistor developing a voltage which varies in accordance with the setting of said contact, and means coupling said low-potential terminal to the grid of said modulated wave amplifier tube for automatically applying a bias voltage thereto which varies with the voltage developed across said resistor in series with the voltage between said output terminals of said detector.

2,653,227

AMPLITUDE AND FREQUENCY MODULATION RADIO RECEIVER

Kerim Önder, New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application March 6, 1951, Serial No. 214,174
2 Claims. (Cl. 250—20)
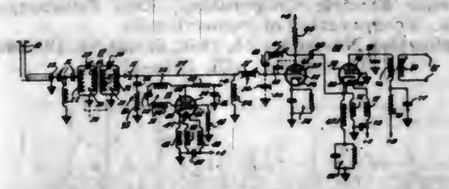


2. An amplitude modulation-frequency modulation receiver comprising means for receiving amplitude modulation and frequency modulated signals, means for applying said frequency modulated signals to a detector, said detector comprising a first and second rectifier connected in series aiding relation, a first impedance connected between the anode of said first rectifier and the cathode of the second rectifier, a tuned circuit coupled to said means for receiving amplitude modulated and frequency modulated signals, a third rectifier and a utilization means, a connection from the end of said first impedance that is connected to the first rectifier anode through a second impedance, said tuned circuit and said third rectifier to the cathode of said second rectifier, a connection from the cathode of said second rectifier through a third impedance to said utilization device, and means for coupling said third rectifier to said utilization device.

2,653,228

ULTRAHIGH-FREQUENCY CONVERTER

Wen Yuan Pan, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application August 16, 1951, Serial No. 242,161
8 Claims. (Cl. 250—20)



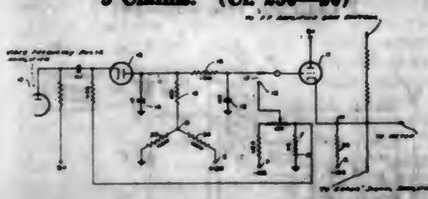
1. A U. H. F. converter comprising a crystal mixer having two electrodes, a resonant input circuit tunable within a predetermined portion of the U. H. F. spectrum to receive a desired modulated carrier wave, said input circuit being connected between one of said electrodes and a point of substantially fixed potential, an oscillation generator tunable within another portion of said U. H. F. spectrum, a resonant output circuit tuned to a predetermined fixed frequency and connected effectively between the other one of said electrodes and said point of fixed potential, a conductor providing inductance connected between said other one of said electrodes and said output circuit, means coupling said oscillation generator to said conductor to impress an oscillatory wave thereon, and means for maintaining the oscillatory wave energy impressed on said crystal mixer substantially constant throughout the tuning range of said oscillation generator and comprising a capacitor and a resistor connected in series between said other one of said electrodes and said point of fixed potential.

2,653,229

AUTOMATIC GAIN CONTROL CIRCUIT

Clyde E. Ingalls, Lexington, and Nathaniel B. Nichols, Cambridge, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War

Application February 19, 1945, Serial No. 578,769
5 Claims. (Cl. 250—20)



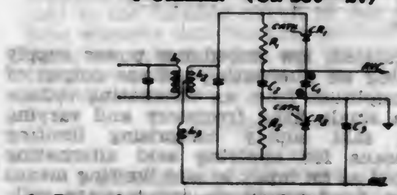
1. In a radio pulse receiver which includes means for demodulating pulses and means for amplifying received pulses prior to demodulation, said amplifying means having a gain in accordance with a gain control potential applied thereto; an automatic gain control circuit comprising a capacitor, a first resistor serially connected to said capacitor, a first source of direct current voltage providing a potential of a given polarity relative to a point of reference potential, means applying said potential of a given polarity to one terminal of said capacitor through said first resistor, the other terminal of said capacitor being connected to said point of reference potential, thereby tending to charge said capacitor toward said potential of a given polarity, a second source of direct current voltage providing a potential of an opposite polarity to said given polarity relative to said point of reference potential, a unidirectional conducting device having two terminals, one terminal of said unidirectional conducting device being connected directly to the junction of said first resistor and capacitor, a second resistor, means applying said potential of opposite polarity to the other terminal of said unidirectional conducting device through said second resistor, said unidirectional conducting device being connected to render it normally conducting, means for applying demodulated pulses having said opposite polarity across said second resistor, said second resistor being small compared to said first resistor, and translating means coupled to the junction of said first resistor and capacitance and responsive to the potential thereat for applying a gain control potential to said amplifying means.

2,653,230

RATIO DETECTOR

Robert C. Moses, Swampscott, Mass., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts

Application July 19, 1948, Serial No. 39,571
3 Claims. (Cl. 250—27)



1. In a frequency modulation receiver, a detector comprising a resonant center-tapped direct-current-conductive circuit having frequency-modulated energization, another circuit having like frequency-modulated energization in quadrature to that of the center-tapped circuit at resonance, a series circuit comprising a first crystal rectifier, a direct-current stabilizer, and a second crystal rectifier in the order named and connected to the terminals of the center-tapped circuit, substantially equal resistors connected directly across said crystal rectifiers, respectively, the resistance of each resistor being large in relation to the forward conductive resistance of the crystal rectifiers and low in relation to the back-resistance of the crystal rectifiers, and a high frequency return circuit connected to one terminal of the quadrature energized circuit and a point between said rectifiers.

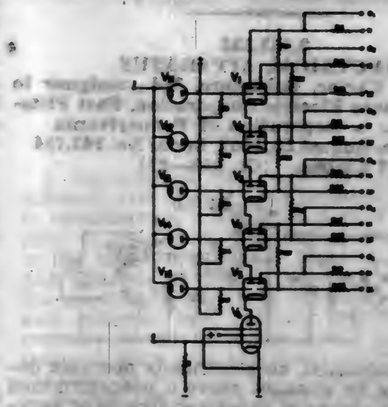
2,653,231

AMPLITUDE-DISCRIMINATING CIRCUITS

Edmund H. Cooke-Yarborough, London, England, assignor, by mesne assignments, to National Research Development Corporation, London, England, a corporation of Great Britain

Application October 13, 1948, Serial No. 54,393
In Great Britain October 13, 1947
7 Claims. (Cl. 250—27)

1. A distributing circuit comprising a plurality of electrically controlled switches each biassed to make one electrical circuit path and excitable to make an alternative electrical circuit path, a common series circuit comprising the electrical circuit paths of said switches in their biassed condition, and a plurality of output circuits each branching from the common series circuit through one of said alternative electrical circuit paths, means providing a progressively different bias on each of said switches along the common series circuit, and a common exciting circuit for all said switches whereby, dependent upon the amplitude of the excitation in relation to the bias, one or other of said switches is effective to break the common series circuit and to complete its associated output circuit.

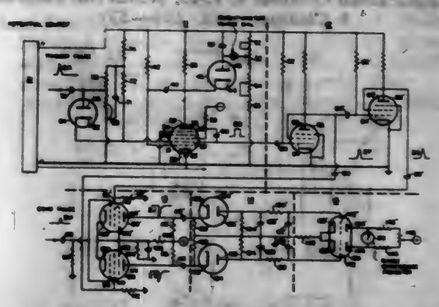


2,653,232

RANGE MEASURING APPARATUS

Pierce W. Siglin, Asbury Park, N. J., assignor to the United States of America as represented by the Secretary of the Army

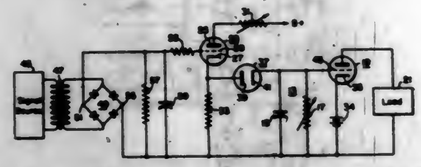
Application June 6, 1950, Serial No. 166,523
3 Claims. (Cl. 250—27)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A linear pulse delay circuit comprising, a thermionic tube having cathode, first control grid, output grid, second control grid, and anode, a resistor from said second control grid to the negative terminal of a source of potential, resistors from each of said first control grid, output grid, and anode to the positive terminal of said source of potential, a heater for said cathode supplied from the same source as said source of potential, coupling capacitors between said anode and said first control grid and between said output grid and said second control grid, a clamping diode having an anode connected to said source of potential through a divider providing a linearly variable component of the po-

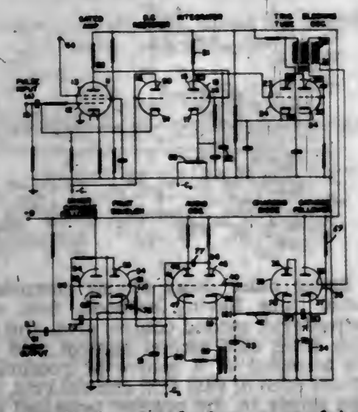
tential of said source and a cathode connected to said anode of said tube, means to supply an input triggering pulse to said second control grid and means to derive a signal wave, started by said triggering pulse, from said output grid, of which the duration is linearly responsive to said variable component of said potential.

2,653,223
ELECTRICAL APPARATUS
John C. G. Carter, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 25, 1951, Serial No. 243,714
7 Claims. (Cl. 250—27)



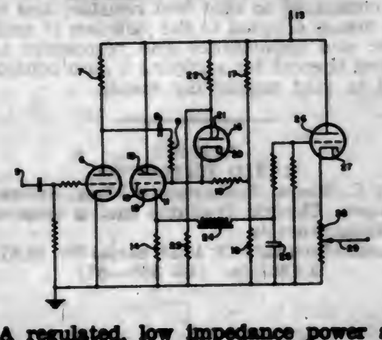
1. In combination, an electrically operable device actuable by voltages above a predetermined magnitude, a source of actuating signals of varying magnitudes, means for limiting said actuating signals to a fixed magnitude, means for establishing on said device prior to application of said actuating signals a voltage having a magnitude slightly less than said predetermined magnitude and such that the sum of the magnitudes of the limited signals and said last mentioned voltage will exceed said predetermined magnitude, and means for superimposing said limited signals on said last mentioned voltage to actuate said device.

2,653,224
RADIO IDENTIFICATION SYSTEM
Charles W. Johnstone and Walter N. Dean, Washington, D. C., and Leonard Mautner, Arlington, Va., assignors, by direct and mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application October 4, 1945, Serial No. 620,248
4 Claims. (Cl. 250—27)



1. A circuit for producing a predetermined output signal in response to a series of input pulse signals of predetermined duration, comprising: a sawtooth wave generator effective to produce during the duration of an input signal a wave form of changing amplitude, means responsive to a series of output pulses from said sawtooth generator means to produce a control signal of a constant amplitude having a duration equal to the time interval over which said series of output pulses from said generator exists, a signal generator means, means connecting the output of said sawtooth generator means to said signal generator means to produce an output signal, and a squelch circuit connecting said constant amplitude pulse to said signal generator means effective a predetermined time after initiation of said constant amplitude pulse to commence translation of output signals from said signal generator.

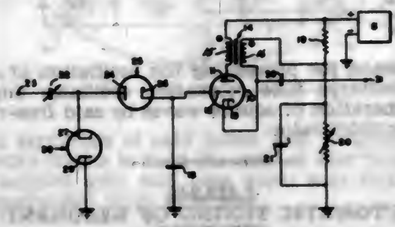
2,653,225
ELECTRONIC VOLTAGE REGULATOR CIRCUIT
David C. Cook, Seattle, Wash., and Clarke M. Gilbert, Chappaqua, N. Y., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War
Application January 3, 1946, Serial No. 638,889
5 Claims. (Cl. 250—27)



1. A regulated, low impedance power supply for obtaining an alternating voltage output of constant amplitude from an alternating voltage input of a single fixed frequency and varying amplitude, said supply comprising limiting means, means for applying said alternating voltage input as an input to said limiting means to obtain a fixed amplitude square wave voltage as an output from said limiting means, filter means resonant at said fixed frequency, means applying said square wave voltage as an input voltage to said filter means to obtain a sinusoidal voltage output having said fixed frequency and a constant amplitude, impedance transforming means having a high input impedance and a low output impedance to prevent loading of said filter means, and means applying said sinusoidal voltage output as an input to said impedance transformer means to obtain said alternating voltage output as the output of said impedance transforming means.

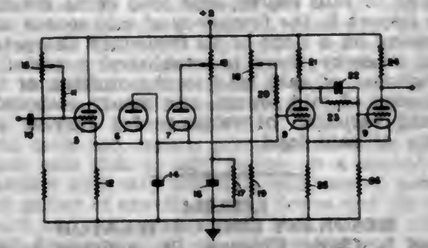
2,653,226
FREQUENCY DIVIDING CIRCUIT
John K. Phelan, Medford, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application April 2, 1946, Serial No. 658,934
6 Claims. (Cl. 250—27)

1. In a frequency dividing circuit, a blocking oscillator comprising a first vacuum tube having at least a control grid, cathode, and anode, second and third vacuum tubes having respectively at least an anode and cathode, a two-winding transformer, a source of potential having a positive terminal and a negative terminal, one end of one winding of said transformer being connected to the anode of said first tube, and the other end of said one winding being connected to said positive terminal, one end of the second winding of said transformer being connected to the cathode of said first tube and the other end of said second winding being connected to a bias source, said windings being so arranged that a potential change on the anode of said first tube produces a corresponding change on the cathode of said first tube, said bias source comprising a potential divider connected between said positive and negative terminals of said source of potential and adapted to prevent said first vacuum tube from conducting before a predetermined time interval as determined by the potential on



the control grid of said first vacuum tube, a storage capacitor connected between said control grid and said negative terminal and also to said cathode of said second vacuum tube, the anode of said second vacuum tube and the cathode of said third vacuum tube being connected to one another and also coupled through a variable condenser to a source of trigger pulses, the anode of said third vacuum tube being connected to said negative terminal, and output circuit means coupled to the cathode circuit of said first vacuum tube whereby said blocking oscillator provides a series of output pulses an integral number of times lower in frequency than the frequency of said trigger pulses.

2,653,227
PULSE LENGTHENING CIRCUIT
Charles W. Johnstone, Garden City, N. Y., and Harold V. Hance, Washington, D. C., assignors to the United States of America as represented by the Secretary of the Navy
Application June 6, 1946, Serial No. 674,768
5 Claims. (Cl. 250—27)



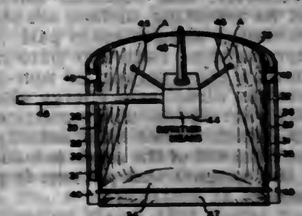
5. A pulse stretching circuit comprising, a pair of vacuum tubes connected together in a regenerative manner so as to form a pulse generating trigger circuit having one stable state and one unstable state, a normally charged capacitor connected in parallel with the input of the one of said pair of tubes which is conducting during the stable state, a charging path for said capacitor determining the charging rate thereof, and a rapid discharge circuit connected to said capacitor to discharge same in response to and during an incoming signal.

2,653,228
DUAL FREQUENCY ANTENNA
Kenneth T. Bainbridge, Santa Fe, N. Mex., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application October 26, 1945, Serial No. 624,902
9 Claims. (Cl. 250—33.57)



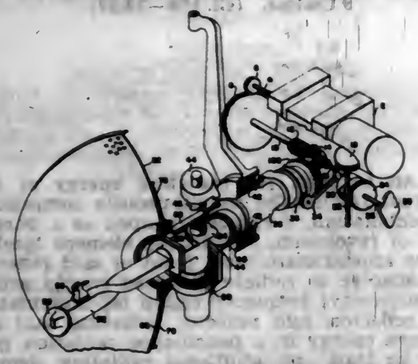
1. An antenna for radiating energy of two different frequencies simultaneously comprising, in combination, a reflector shaped as a paraboloid of revolution, a radiating element located in the approximate focal point of said reflector and adapted to radiate polarized energy within the microwave frequency region for illuminating said reflector, said reflector reflecting said microwave energy in a pencil-type radiation pattern, at least one additional radiating element disposed in front of said reflector and adapted to radiate energy of a lower frequency than said microwave energy and with its plane of polarization perpendicular to the plane of polarization of the microwave energy, a coaxial conductor line for feeding energy to and supporting said one additional radiating element, said conductor line being disposed substantially parallel to both the aperture plane of said reflector and the additional radiating element which it supports, said coaxial conductor line acting as a reflecting surface for a major portion of the lower frequency energy radiated by said additional radiating element, both said radiating elements being adapted to radiate energy of both said frequencies simultaneously without one interfering with the other in directive radiation patterns having their axes of directivity substantially coinciding.

2,653,229
ANTENNA
Lan Jen Chu, Brookline, and Charles V. Robinson, Newton Center, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War
Application August 1, 1945, Serial No. 606,236
11 Claims. (Cl. 250—33.63)



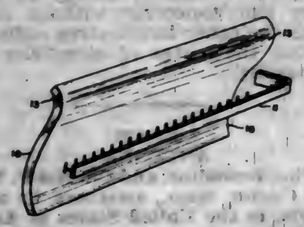
1. In an apparatus for scanning a sector of space with electromagnetic radiation, a waveguide formed of two members affording conductive substantially parallel surfaces, said members being so shaped that the median surface between said parallel surfaces is substantially a half right-circular cylinder including a semi-circular base thereof, said half right-circular cylinder having a height substantially equal to the radius of its base, the base portions of said two members being semi-circular plates having a radiating aperture therebetween.

2,653,240
RADAR ANTENNA
Otto E. Szekely, Philadelphia, Pa., assignor to O. E. Szekely & Associates, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application April 27, 1951, Serial No. 223,216
5 Claims. (Cl. 250—33.65)



1. A radar antenna comprising a spindle, a wave guide mounted on said spindle, and a reflector mounted on said spindle, said reflector being rotatable with respect to said spindle and wave guide on the axis of the spindle.

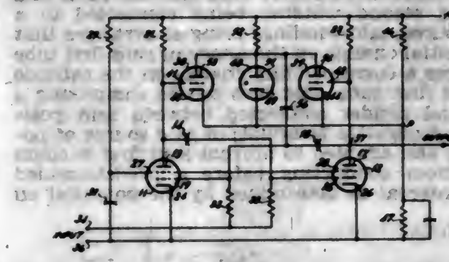
2,653,241
ANTENNA
Lan Jen Chu, Brookline, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application July 9, 1945, Serial No. 604,021
7 Claims. (Cl. 250—33.65)



7. An antenna comprising a parabolic reflector and radiating means for directing radiant energy onto said reflector, said reflector having more than half of its reflecting surface adapted to direct radiant energy along a main path in a substantially symmetrical radiation pattern and a relatively narrow edge portion of non-parabolic shape adapted to direct said energy along a divergent path whereby an unsymmetrical radiation pattern which varies substantially as the square of the cosecant of the angle measured from the axis of the symmetrical pattern is produced by said reflector.

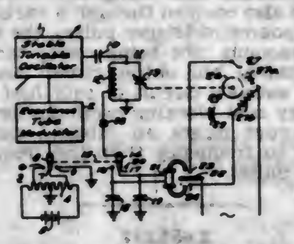
2,653,242
SQUARE WAVE GENERATOR
John W. Gray, White Plains, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York
Application June 23, 1950, Serial No. 169,971
11 Claims. (Cl. 250—36)

1. A square wave generator comprising, a free-running multivibrator, a gas discharge tube relaxation oscillator, means for coupling the oscillatory circuit of said gas discharge tube relaxation oscillator to the oscillatory circuit of said free-running multivibrator whereby said free-running multivibrator is automatically started,



and means for preventing the oscillation of said gas discharge tube relaxation oscillator during the generation of square waves by said free-running multivibrator.

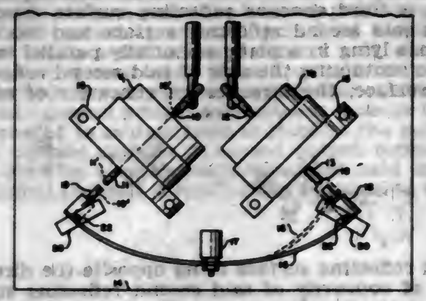
2,653,243
AUTOMATIC TUNING OF RESONANT CIRCUITS
Cyril E. McClellan, Glen Burnie, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 17, 1948, Serial No. 44,633
9 Claims. (Cl. 250—36)



1. In combination in an automatic tuning system, a source of alternating current of a predetermined mean frequency, means for shifting the frequency of said source of alternating current alternately above and below said mean frequency by discrete frequency increments and for equal time intervals, a load tunable to resonance coupled to said source, said load being detuned with respect to the frequency of said source, and operating on a slope of its frequency characteristics, whereby there is established a variation of response of said load to the shifting of the frequency of said source, and means responsive to said variation of response for varying the tuning of said load.

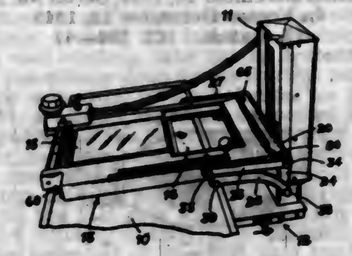
2,653,244
RESONANT LINE OSCILLATOR
James L. Clark, Chicago, Ill., assignor to the United States of America as represented by the Secretary of War
Application January 29, 1946, Serial No. 644,169
6 Claims. (Cl. 250—36)

1. In a high frequency electrical apparatus, the combination including a first and a second vacuum tube, each having at least a plate and a grid, each plate and each grid having at least one terminal pin, two inductances in the form of flexible conductive spring straps each having at its ends means for contacting said pins, insulating means supporting said metal straps at their midpoints, said tubes and straps being so positioned that one said strap may be connected between the plate terminals of said tubes and the other said strap may be connected between the



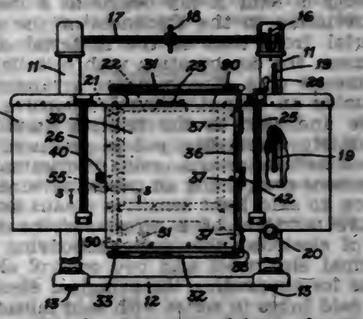
grid terminals of said tubes, and removable retaining means to hold the ends of said straps out of contact with said pins when said straps are disconnected from said pins.

2,653,245
X-RAY APPARATUS
Walter H. Haupt, Kenton Hills, Ky., assignor to Keleket X-Ray Corporation, Cincinnati, Ohio, a corporation of Ohio
Application March 21, 1951, Serial No. 216,688
8 Claims. (Cl. 250—58)



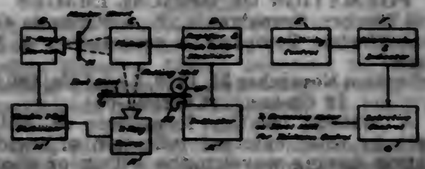
1. An adjustable support for mounting an X-ray device in operative relation with an X-ray table for movement between an operative position generally parallel with the top of said table and an inoperative position generally perpendicular to said table top and at the back thereof, comprising a main supporting frame adapted for mounting at the back of said table, a first link at each side of said frame pivoted at one end to said frame on a first axis parallel with said table top, means pivoting the other end of each said link to said device on a second axis parallel with said first axis and located between the center of gravity of said device and the rearward end thereof, a second link at each side of said frame pivoted at one end thereof to said frame on a third axis parallel with said first axis, and means pivoting the other end of each said second link to said device on an axis parallel with said third axis and spaced from said second axis, the length and axes of said second link being proportioned to maintain the center of gravity of said device substantially in a plane parallel with said table top as said device moves between said operative and inoperative positions providing for uncounterweighted movement of said device between said positions with minimum effort on the part of the operator.

2,653,246
X-RAY APPARATUS
David Sussin, South Fort Mitchell, and Haden S. Ware, Fort Mitchell, Ky., assignors to Keleket X-Ray Corporation, Cincinnati, Ohio, a corporation of Ohio
Application May 11, 1950, Serial No. 161,886
12 Claims. (Cl. 250—62)



1. A cassette changer comprising a frame providing an exposure position for the patient, a cassette holder having compartments for receiving a plurality of cassettes, pivot means mounting said cassette holder on said frame for swinging with a pendulum motion between two operative positions to align said compartments alternately with said exposure position, means for releasably holding said cassette holder in each said operative position, a casing adapted to receive a bucky, means hinging said casing to said frame for movement between an operating position aligned with said exposure position and an inoperative position, a compensating weight for said cassette holder, drive means supporting said weight for shifting movement between limit positions at either side of center with respect to said pivot means to provide an off-center load on said cassette holder assuring swinging thereof from one said operative position to the other upon release of said holding means, means operated by said bucky for releasing said holding means upon completion of an exposure, means operated by said cassette holder at each said operative position thereof for actuating said drive means and for preventing operation thereof during movement of said cassette holder, means operated by said compensating weight for preventing release of said holding means during said shifting movement of said weight, and means for releasing said holding means independently of said bucky to provide for operation of said cassette holder when said bucky casing is in said inoperative position.

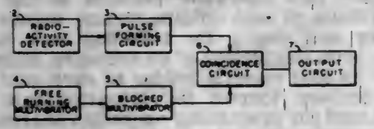
2,653,247
X-RAY THICKNESS GAUGE
Walter N. Lundahl, Pikesville, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 8, 1948, Serial No. 25,953
8 Claims. (Cl. 250—71)



1. In an X-ray thickness gauge for measuring material thickness of the type having means for

generating two independent X-ray beams, light producing means responsive to the intensity of the respective X-ray beams impinging thereon after passage through a material of known thickness and a material of unknown thickness, light sensitive means responsive to said light producing means and operable to produce a pulsating voltage corresponding to any difference in the intensity of said X-ray beams as a measure of the deviation in the thickness of the unknown material from that of the material of known thickness, the combination with said light sensitive means of a discriminator arrangement for producing an output voltage responsive in magnitude and sign to the relative amplitudes of alternately succeeding pulses produced by said light sensitive means, said discrimination arrangement comprising an inleading wire for connection to said light sensitive means and to the positive terminal of a direct-current source, a pair of electron tubes each embodying a set of principal electrodes and two control electrodes, means for connecting the principal electrodes of both said tubes in series with said inleading wire and direct-current source through a pair of resistors having a common terminal, means for connecting one of said electrodes in each said tube to the opposite terminals of a source of alternating current, means for connecting the other said control electrodes together to be energized by the pulsating wave from said light sensitive means, and means for connecting the noncommon terminals of said resistors to a utilization circuit.

2,653,248
PROBABILITY SCALER
Gilbert J. Perlow and Clarence A. Schroeder, Washington, D. C.
Application July 31, 1950, Serial No. 176,887
5 Claims. (Cl. 250—83.3)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In combination, a random count radioactivity detector, a coincidence circuit receiving the output of said detector, a pulse generator operative to generate a continous series of pulses of a predetermined spacing, the duration of said generated pulses being adjusted to have a width less than the average spacing between the output pulses of said detector, and means for applying said generated pulses to said coincidence circuit to provide an output therefrom whenever one of said generated pulses coincides in time with an output from said detector.

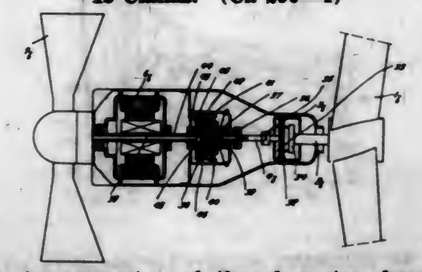
2,653,249
SYSTEM AND APPARATUS FOR THE FORMATION OF OPTICAL IMAGES
David Harker, Brooklyn, N. Y., assignor to General Electric Company, a corporation of New York
Application November 30, 1950, Serial No. 198,378
19 Claims. (Cl. 250—90)

1. A system for the formation of optical images by total external reflection of incident radiation having wavelengths within or shorter than the X-ray spectrum comprising a first concave reflecting surface having its axis perpendicular to the incident radiation, a second concave reflecting surface positioned adjacent said first reflecting surface and having its axis perpendicular to the incident radiation and essentially perpendicular to the axis of said first reflecting surface, a third concave reflecting surface spaced from said second reflecting surface and having its axis lying in a plane essentially parallel to a plane containing the axis of said second reflecting surface, the direction of concavity of said



third reflecting surface being opposite the direction of concavity of said second reflecting surface, and a fourth concave reflecting surface positioned adjacent said third reflecting surface and having its axis lying in a plane essentially parallel to a plane containing the axis of said first reflecting surface, the direction of concavity of said fourth reflecting surface being opposite the direction of concavity of said second reflecting surface.

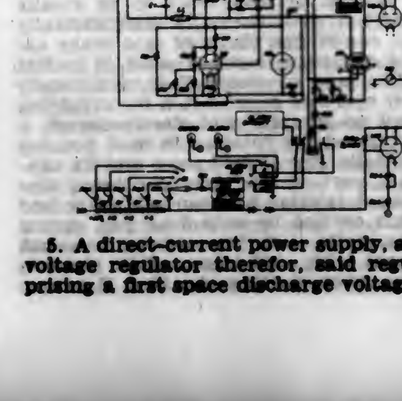
2,653,250
TORQUE GOVERNOR FOR ENGINE MAKING USE OF A POWER SUPPLY THAT IS SUBJECT TO GREAT VARIATION
Lucien Romani, Paris, France
Application December 13, 1950, Serial No. 200,542
In France December 16, 1949
13 Claims. (Cl. 290—4)



1. An apparatus of the character described comprising a windwheel, a shaft operatively connected with said windwheel and rotated thereby, an electric generator connected to the network, a shaft connected with said generator, two identical vane wheels of little diameter adapted to have their torque adjusted when running, means for adjusting said torque, shafts connected respectively with said vane wheels, said shafts having opposite directions and same axis at right angle to the axis of said windwheel, a shaft connected with said two vane wheels shafts, transmission means for connecting said shaft, said windwheel shaft and said generator shaft whereby enabling said three shafts to take variable angular velocities different to each other.

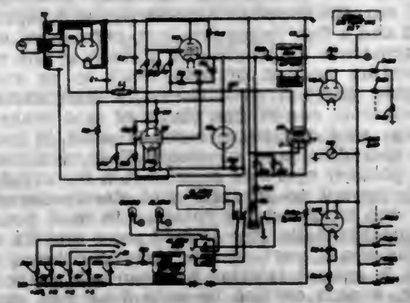
2,653,251
DUAL VOLTAGE REGULATOR
Merlin Petroff, Round Lake, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application June 22, 1949, Serial No. 100,581
4 Claims. (Cl. 307—11)

1. A dual voltage regulating circuit adapted to be connected to a source of high direct current unregulated voltage comprising a high voltage input terminal, a high voltage output terminal, an electron tube connected between said terminals and adapted to vary the voltage drop between said terminals according to the potential upon its grid, an amplifier tube adapted to regulate the potential on said grid, said amplifier tube having a cathode and control grid, a voltage divider connected to said output terminal, a variable tap on said voltage divider connected to said control grid, a cold cathode gaseous tube connected to said cathode to stabilize the potential on said cathode, a second output terminal, an electron tube connected between said input terminal and said second output terminal to vary



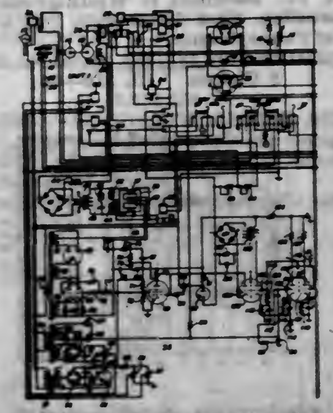
the voltage at said output terminal according to the voltage drop of the last said electron tube, the last said electron tube having a control grid to vary the voltage drop across the last said electron tube according to the potential on the last said grid, a second amplifier connected to vary the potential on the last said grid, said second amplifier having a control grid, a second voltage divider connected to the last said output terminal, a tap on said second voltage divider connected to the last said grid, and a tap on the first said voltage divider at a potential lower than the potential of the first said tap on the same voltage divider connected to the cathode of said second amplifier.

2,653,253
VOLTAGE REGULATOR
Bernard Ostendorf, Jr., Stamford, Conn., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 25, 1951, Serial No. 238,466
5 Claims. (Cl. 307—64)



5. A direct-current power supply, an electronic voltage regulator therefor, said regulator comprising a first space discharge voltage correcting device having a first set of controls comprising a first input circuit for said correcting device, a second space discharge amplifying device for amplifying voltage changes in said supply and means for applying said amplified changes to said first input circuit, a second voltage regulator for said power supply, said second regulator comprising a second input circuit for said correcting device, and means for effectively establishing said second circuit responsive to the failure of said first regulator.

2,653,253
POWER SUPPLY SYSTEM
Harvey T. Langabeer, Rockville Centre, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 14, 1952, Serial No. 271,470
10 Claims. (Cl. 307—65)

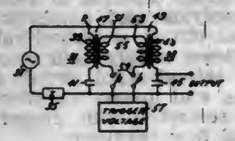


10. In combination, a first, a second and a third current supply source adapted for supplying current to a variable load, said second source having a larger rated current capacity than that of said first source, means for causing said first source to supply current to said load, means responsive to an increase of current supplied from said first source to the load to a predetermined amplitude for causing said second source to supply current to said load and for causing the interruption of the supply of current from said first source to said load, means responsive to an increase of current supplied from said second source to said load to a predetermined amplitude for causing said third source to supply current to said load, and means responsive jointly to an increase of current supplied by said third source to a predetermined value and to an increase of current supplied by said second source to said predetermined amplitude for causing current to be supplied from said first source to said load to supplement the supply of current from said second and third sources to said load.

2,653,254
NONLINEAR RESONANT FLIP-FLOP CIRCUIT
Charles F. Spitzer, Syracuse, N. Y., and Robert J. Reich, Hamden, Conn., assignors to General Electric Company, a corporation of New York
Application April 23, 1952, Serial No. 283,378
7 Claims. (Cl. 307—88)

5. In a flip-flop circuit, an alternating voltage input circuit, including an impedance, a pair of non-linear circuits shunt connected to each other and to said input circuit, and electric-

circuit means coupled to said circuits for varying the current in said branch circuits simultaneously and in opposite senses, whereby one said circuit is



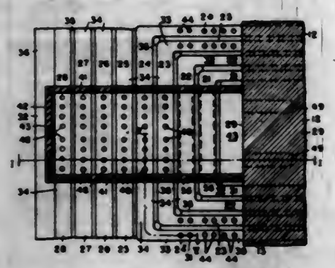
caused to assume a high-current-conduction state and the other said circuit simultaneously assumes a low-current-conduction state.

2,653,255

SEPARATE END-TURN ROTOR-VENTILATION

René A. Baudry, Pittsburgh, and Paul R. Heller, Irwin, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 26, 1952, Serial No. 301,073
6 Claims. (Cl. 310—64)



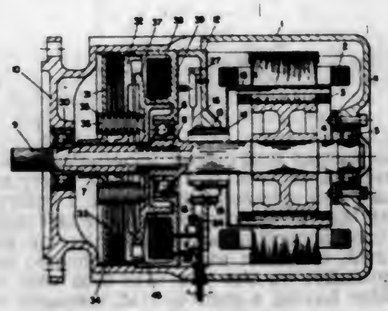
1. A synchronous dynamo-electric machine comprising a stationary armature-member and a rotating field-member having an airgap therebetween, said rotating field-member including a shaft, a cylindrical rotor-core having winding-receiving rotor-slots, and a distributed hollow-conductor direct-current field-winding, each pole of the field-winding comprising a plurality of concentric coils spanning the pole-center, said concentric coils having slot-lying hollow-conductor coil-side portions lying within the respective rotor-slots, and having end-windings having spaces thereunder, between the respective end-windings and the field-member shaft at the respective ends of the rotating field-member, each of said end-windings, at the respective ends of the field-member, including both axially and circumferentially extending hollow-conductor end-winding portions, disposed outside of the rotor-core at the respective ends of said rotor-core, said field-member further including retaining rings surrounding the respective end-windings of the field-winding, means for blowing a cooling gas axially into an intake-space under at least one of said retaining-rings, at at least one end of the field-member, and under the end-winding portion at that end of the rotor-core, gas-inlet means for admitting the cooling gas from said intake-space into each of the hollow conductors of the field-winding at that end of the field-member, said gas-inlet means including gas-inlet holes disposed in the hollow conductors, a plurality of said gas-inlet holes being in axially extending hollow-conductor end-winding portions at points near that end of the rotor-core, a first outlet vent-means, including holes opening into said airgap from said hollow-conductor coil-side portions at an intermediate portion of the rotor-core, for venting a forwardly flowing portion of said cooling gas after it has blown partially through said slot-lying hollow-conductor coil-side portions of the field-winding, and a second outlet vent-means, including outlet-holes opening from circumferentially extending hollow-conductor end-winding portions for providing gas-flow to said airgap, for venting a backwardly flowing portion of said cooling gas after it has blown partially through at least some of said end-winding portions of the field-winding at the same intake-end of the field-member at which the cooling gas was introduced into the hollow conductors.

2,653,256

ELECTRIC MOTOR BRAKE COUPLING ASSEMBLY

Omar C. Walley, Cleveland, and Robert L. Anderson, Maple Heights, Ohio, assignors to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio, a corporation of Delaware

Application August 4, 1951, Serial No. 240,392
5 Claims. (Cl. 310—76)



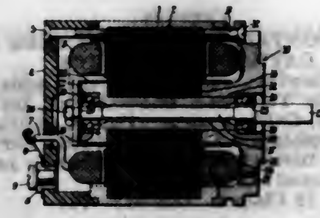
1. In combination in a rotary shaft actuator, a housing, an A. C. motor comprising a stator, a rotor radially spaced therefrom, a rotary shaft supported by said housing including a rotor supporting portion and an output portion, braking means comprising a pair of longitudinally spaced plates splined to the output portion of said shaft, one of said plates being magnetic and axially movable on said shaft, a series of friction brake discs disposed between said plates longitudinally, some of which are splined to said housing and some of which are splined to the output portion of said shaft, spring means for normally compressing said discs to brake the output shaft portion against rotation, a normally deenergized D. C. current supplied electromagnet comprising a coil and a flux responsive non-permanent magnet armature longitudinally splined to the rotor supporting portion of said shaft to be axially movable thereon and normally longitudinally spaced from one of the plates of said brake assembly, said armature being located in a flux path including said magnetic plate, a normally open plunger operated microswitch for supplying D. C. current to energize said electromagnet, a drag cup mounted for rotation in said housing and mechanically free of said rotor and its supporting shaft, part of said drag cup being disposed in spaced relation between said rotor and stator, a cam carried by said drag cup, spring means for normally centering said cam to be out of engagement with said microswitch plunger, said drag cup, upon starting of said A. C. motor, being subjected to electrical forces to be rotated so as to rotate said cam to close the microswitch to supply D. C. current to said electromagnet to magnetically attract and slidably move the adjacent plate of said brake assembly against the action of its disc compressing spring means, to release the braking action on the output portion of said shaft and establish a magnetic coupling drive between said splined non-permanent magnet plate and its adjacent magnetic brake assembly armature splined to said output shaft portion to drive the latter, said drag cup cam, upon stopping of current supply to the stator of said A. C. motor being spring centered away from said microswitch plunger to open the switch and deenergize said electromagnet to disengage said magnetic coupling and the brake releasing means.

2,653,257

LOW INERTIA TYPE DRAG CUP MOTOR

Norris Hamptom Sailer, Union, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application March 22, 1952, Serial No. 277,925
2 Claims. (Cl. 310—166)



1. In an electric motor, a casing, a first stator element having a central apertured portion and fixed in said casing, and a unitary assembly comprising a supporting structure including an end cap adapted to be releasably secured to the casing and a stud extending from and substantially normal to the end cap, said stud terminating in a free end and being adapted to be fitted within the apertured portion of said first stator element, said stud and end cap being provided with a longitudinal through bore, a shaft journaled in spaced bearings within the bore, a second stator element surrounding and carried by the stud, and a cup-shaped rotor having a head portion and a shell portion, said head portion being secured to said shaft adjacent the free end of said stud and said shell portion surrounding said stud and second stator element and being positioned in spaced relation with respect to both said stator elements when in assembled condition.

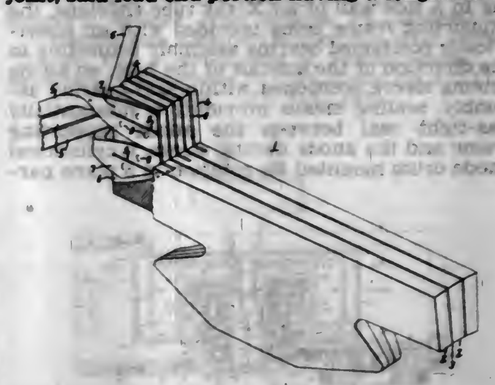
2,653,258

ELECTRICAL CONDUCTOR LEAD FOR COMMUTATORS

Robert K. Allen, Wesleyville, Pa., assignor to General Electric Company, a corporation of New York

Application June 29, 1951, Serial No. 234,325
12 Claims. (Cl. 310—234)

1. A lead for an electrical conductor having a flattened end portion with a relatively small projection formed in its surface so that an air gap is defined between said lead end portion surface and the walls of a slot in a connecting member when said lead end portion is driven into said slot whereby solder penetrates said air gaps by capillary action to provide a tight joint, said lead end portion having a longitudinal



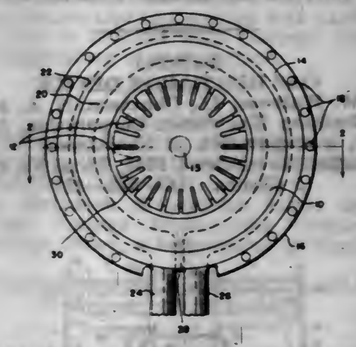
groove formed in its surface for guiding solder to the rear thereof.

2,653,259

ELECTRON DISCHARGE DEVICE ANODE

Robert C. Scott, Belmont, Mass., assignor to the United States of America as represented by the Secretary of War

Application March 29, 1946, Serial No. 657,947
3 Claims. (Cl. 313—31)



3. In an electron tube, an anode comprising a body portion having an inner wall portion defining a central aperture, a cathode within said aperture for emitting primary electrons toward said inner wall portion, and means for reducing secondary electron emission from said inner wall portion comprising a plurality of substantially planar metallic fin portions affixed to said inner wall portion and extending inwardly toward said cathode less than one-half the distance to the center of said aperture.

2,653,260

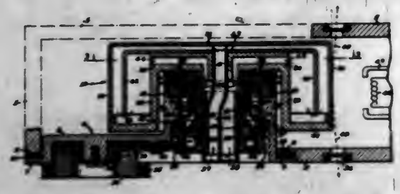
DEMOUNTABLE X-RAY TUBE CONSTRUCTION

Abraham Taylor, Cleveland, Ohio, assignor to Horizons Incorporated, Princeton, N. J., a corporation of New Jersey

Application June 3, 1952, Serial No. 291,478
In Great Britain January 12, 1949
5 Claims. (Cl. 313—32)

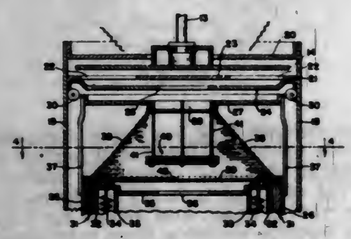
1. A rotating water-cooled cylindrical anode assembly for demountable X-ray tubes characterized by unimpeded access to all tube windows positioned peripherally thereof in the plane of emission of X-rays from the cylindrical wall sur-

face of the drum and comprising an anode supporting frame adapted to be mounted in an opening in a side wall of an X-ray tube envelope, the supporting frame being provided with an eccentrically positioned bearing assembly projecting in the direction of the interior of the tube, an anode driving sleeve positioned within said bearing assembly, sealing means providing a substantially gas-tight seal between the anode supporting frame and the anode driving sleeve, a cylindrical anode drum mounted for rotation in a plane par-



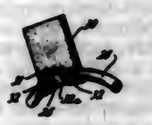
allel to the plane of the anode supporting frame. one face of the drum being provided with an annular recess adapted to receive the anode driving sleeve, connecting means for securing the anode driving sleeve to the annular recess in the anode drum in substantially gas-tight relationship, an anode driving gear train mounted on the anode supporting frame in engagement with the anode driving sleeve, and water supply and discharge lines communicating with the interior of the anode drum through said anode driving sleeve.

2,653,261
GAS DISCHARGE DEVICE
Ward W. Watrous, Jr., Chatham, N. J., assignor to Chatham Electronics Corporation, Newark, N. J., a corporation of New Jersey
Application November 8, 1951, Serial No. 255,516
5 Claims. (Cl. 313—33)



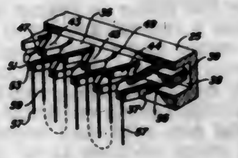
1. A gaseous discharge device comprising, an anode, a shielded heated cathode for supplying electrons within a cavity, a control electrode mounted adjacent to the anode for partially controlling the discharge between the anode and cathode, said control electrode formed with a solid central portion and a plurality of openings disposed in the region between the central portion and the periphery, a first baffle plate mounted adjacent to the control electrode and connected thereto having a central hole aligned with the central solid portion of the control electrode, a second baffle plate mounted adjacent to the first baffle plate and connected to the cathode, said second plate having a central hole aligned with the hole in the first plate, and a barrier made of mesh material for confining the discharge mounted on the cathode structure between the opening in the second baffle plate and the cathode cavity.

2,653,262
CONTROL DEVICE
John M. Bowman, Philadelphia, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application June 5, 1951, Serial No. 229,899
7 Claims. (Cl. 313—75)



1. A control device for positioning the electron beam on the screen of a cathode-ray tube, comprising a mounting structure, magnetized split rings rotatably retained on said structure, each ring having manipulating means including spaced clamping portions and a projection therebetween, said clamping portions being looped about the ring adjacent its split, and said projection extending into said split.

2,653,263
COLOR CONTROL GRID STRUCTURE FOR CATHODE-RAY TUBES
Ernest O. Lawrence, Berkeley, Calif., assignor to Chromatic Television Laboratories, Inc., San Francisco, Calif., a corporation of California
Original application February 11, 1952, Serial No. 252,686. Divided and this application January 8, 1952, Serial No. 265,265
12 Claims. (Cl. 313—78)

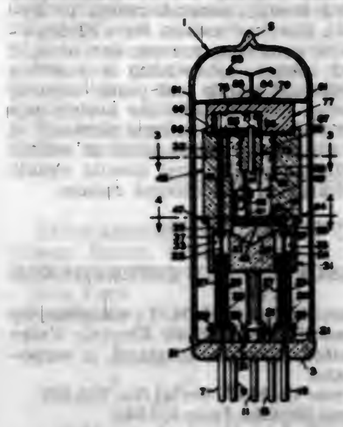


1. An electrode structure for a cathode-ray tube comprising a support frame having spaced beams defining the limiting boundaries of a window area, a comb-like cantilever extending outwardly from each spaced beam, conducting strands strung between the teeth of the cantilevers to extend transversely of the window area, means located substantially at the outer end of each comb-tooth for positionally locating the strung conductors in substantially precisely parallel paths equally spaced from each other, and means to connect said strung strands to an electric circuit.

2,653,264
GASEOUS ELECTRON TUBE STRUCTURE
James E. McLinden, Jr., Rego Park, N. Y., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application January 27, 1951, Serial No. 208,159
10 Claims. (Cl. 313—193)

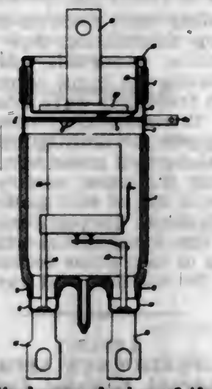
1. In an electron tube, a mount structure including a plurality of electrodes, an envelope enclosing said mount structure and having a stem, a plurality of leads extending through said stem and connected to said electrodes and mounting said mount structure, insulating means on said

leads shielding said leads from one another throughout their lengths, and said leads support-



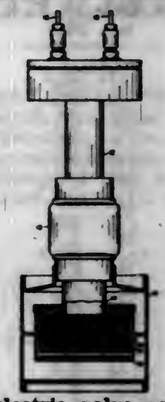
ing said mount structure independently of said insulating means and said envelope stem.

2,653,265
GAS-FILLED GRID CONTROLLED ELECTRONIC TUBE
Arthur W. Coolidge, Jr., Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application March 23, 1951, Serial No. 217,262
1 Claim. (Cl. 313—193)



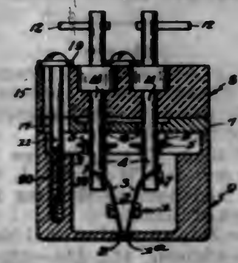
An electric discharge device of the gaseous discharge type, comprising a generally planar grid structure, having a pair of circular flanges extending in opposite directions from the outer edge of said grid structure, a cylindrical envelope section of insulating material sealed at one end to one of said flanges, an anode structure including a generally planar active surface and a cylindrical supporting structure joined at one end to the outer edge of said active surface and sealed at the other end to said envelope section, said cylindrical supporting portion extending within said envelope section and supporting said anode in closely spaced relation with respect to the planar surface of said grid and the diameter of said supporting portion being only slightly smaller than the internal diameter of said envelope section and the flange on said grid to enclose a minimum volume of gas between said anode and grid, a second cylindrical envelope section of insulating material sealed to the other flange of said structure of said envelope section and a cathode supported within said other envelope section.

2,653,266
VAPOR ELECTRIC DEVICE
Robert J. Ballard, West Newton, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 27, 1950, Serial No. 187,111
7 Claims. (Cl. 313—212)



1. A vapor electric valve comprising a container, a cathode in insulated relation to said container, a heater maintaining said cathode at emitting temperature, at least the emitting surface of said cathode consisting of nickel containing a small portion of nickel phosphide and a quantity of cesium providing a working vapor in said container and cooperating with said emitting surface to produce high electron emission at low temperature of said surface.

2,653,267
FILAMENT EMISSION ELECTRODE AND METHOD OF MINIMIZING FILAMENT STRESSES THEREIN
Lloyd R. McIntosh, Winchester, Mass., assignor to High Voltage Engineering Corporation, Cambridge, Mass., a corporation of Massachusetts
Application June 29, 1951, Serial No. 232,602
21 Claims. (Cl. 313—245)



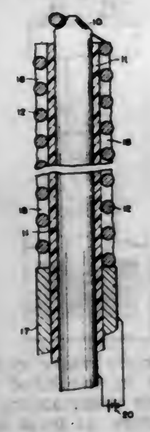
5. As a new article of manufacture, a filamentary electronic or like emitter of hairpin shape, having lead-in wires, a metallic cup in which said emitter is located and having a small bottom opening wherein is located the apex of the emitter, a porcelain cylinder above and secured to said cup, and steel rods connected to said lead-in wires and passing through said porcelain cylinder and into said cup and therein connected to the two arms respectively of said filamentary emitter of hairpin shape, a tungsten wire secured to each steel rod within said cup and having a very sharp point very slightly spaced from the said porcelain cylinder to serve as spark gaps to prevent the filamentary emitter from sudden surge discharges.

2,653,268

DIRECTLY HEATED CATHODE STRUCTURE

Beverly D. Kumpfer, Spring Lake Heights, N. J., assignor to the United States of America as represented by the Secretary of the Army

Application May 1, 1950, Serial No. 159,351
4 Claims. (Cl. 313—346)
(Granted under Title 35, U. S. Code (1952), sec. 266)



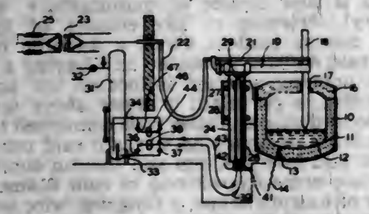
4. A directly heated cathode structure comprising a conductive rod, a layer of insulating material bonded to the outer surface of said rod, a wire wound about the insulated rod and in contact with said insulating material to provide a filament, thermionically-active material disposed between adjacent turns of said wire and extending radially outwardly beyond said wire along a given length of said rod bonding said filament to said insulating material, and a pair of terminal means disposed at a given end of said structure, said terminal means being respectively in electrical contact with said rod and said wire, and providing terminal connections for current-supply to said filament, said filament being electrically connected to said rod at the end of said cathode structure remote from the terminal connection end of said structure.

2,653,269

HYDRAULIC-ELECTRICAL APPARATUS FOR AUTOMATICALLY REGULATING THE POSITION OF DIRECT ARC ELECTRIC FURNACE ELECTRODES

Charles W. Vokac, Cicero, George M. Rothenberger, Harvey, and Woodruff A. Morey, Park Forest, Ill., assignors to Whiting Corporation, a corporation of Illinois

Application July 16, 1952, Serial No. 299,294
15 Claims. (Cl. 314—61)



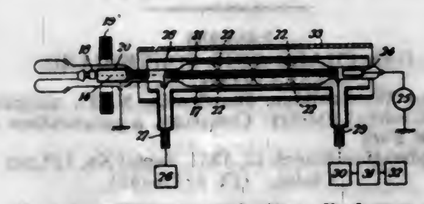
1. In an electric arc melting furnace of the type having an electrode movable for varying the arcing gap, conductor means for supplying electric current to the electrode and telescopic liquid confining means coupled to the electrode for varying electrode position, the improvement which includes first means for forcing liquid into the confining means, second means in hydraulic series with the first means for withdrawing liquid from the confining means, one of said first and second means comprising a positive displacement hydraulic pump and pump control means responsive to variations in the arcing gap varying the pump discharge volume through a range including an intermediate point at which the volume discharge of the first means equals the volume discharge of the second means.

2,653,270

HIGH-FREQUENCY ENERGY INTERCHANGE DEVICE

Rudolf Kompfner, Springfield, N. J., assignor, by mesne assignments, to English Electric Valve Company Limited, London, England, a corporation of England

Application June 19, 1947, Serial No. 755,667
In Great Britain June 8, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires June 8, 1964
18 Claims. (Cl. 315—3)



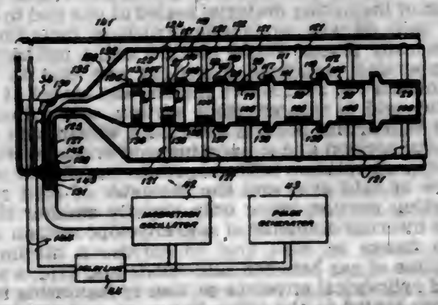
15. A traveling wave electron discharge device of the velocity modulation type comprising an elongated hollow waveguide, one end of said guide constituting an input terminal for introducing a high frequency wave into said guide for propagation therethrough, means forming a part of said guide for limiting the axial velocity of the wave along said guide to a value substantially less than the wave velocity in air, means adjacent to said end of said guide for projecting a beam of electrons through said guide in the direction of the longitudinal axis thereof, and the other end of said guide constituting an output terminal for utilizing said wave.

2,653,271

HIGH-FREQUENCY APPARATUS

John R. Woodyard, Berkeley, Calif., assignor to The Sperry Corporation, a corporation of Delaware

Application February 5, 1949, Serial No. 74,837
8 Claims. (Cl. 315—5)



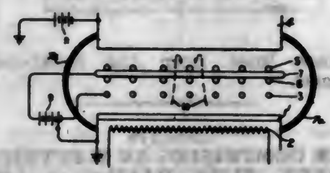
3. An electron accelerator comprising a source of electrons which are to be accelerated, a wave guide having one end located adjacent said electron source, means for projecting said electrons into said guide, a source of high frequency excitation power, a coaxial line extending along the length of said guide and having a portion of one of its conductors common with the wall of said guide, said coaxial line being connected to said power source, said common portions of said conductor and said wall having a plurality of longitudinally spaced apertures for distributedly introducing excitation energy into said guide.

2,653,272

ULTRAHIGH-FREQUENCY GENERATOR

Simon Ramo, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application March 15, 1945, Serial No. 582,917
7 Claims. (Cl. 315—5)



1. An ultra high frequency oscillator comprising an electric discharge device having a cathode, a reflector electrode, and a resonant structure located between said electrodes, said structure comprising two layers of parallel wires forming a plurality of parallel connected sections of open wire transmission lines, and transverse conductors disposed between said layers at points spaced apart by a distance equal to an integer number times a half wave length at the desired operating frequency of said oscillator.

2,653,273

HIGH-FREQUENCY AMPLIFIER

David H. Sloan, Berkeley, Calif., assignor to Research Corporation, New York, N. Y., a corporation of New York

Application April 14, 1951, Serial No. 221,017
9 Claims. (Cl. 315—6)



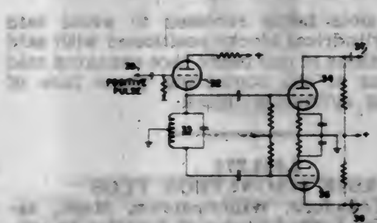
5. A resnatron type vacuum tube comprising an annular cavity resonator, an annular cathode positioned within the cavity of said resonator substantially at a current node therein, an annular grid structure forming a portion of the wall of said cavity substantially at a current node thereof opposite said cathode, said cathode being adapted to direct a narrow annular beam of electrons across said cavity and through said grid structure, and an annular anode cavity resonator having a substantially unobstructed annular slot in the wall thereof positioned to receive said electron beam, the width of said slot being only sufficient to admit substantially all of the electrons of said beam, the edges of said slot forming an accelerator electrode for increasing the velocity of said beam in its transit between said cavities.

2,653,274

CATHODE-RAY DEFLECTION CIRCUIT

Horace W. Babcock, Pasadena, Calif., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application September 6, 1945, Serial No. 614,729
1 Claim. (Cl. 315—26)



An electrical circuit comprising a first electron discharge device, a second electron discharge device, a third electron discharge device, an oscillatory circuit comprising an inductance and a capacitance, an anode of said first electron discharge device being adapted to be connected to a positive source of direct potential, a control electrode of said first electron discharge device being adapted to be connected to a source of positive voltage pulses, a cathode of said first electron discharge device being connected to one side of said oscillatory circuit, an intermediate point of said oscillatory circuit being connected to ground; means for transmitting the voltage variations at one side of said oscillatory circuit to a control electrode of said second electron discharge device, means for transmitting the voltage variations at the other side of said oscillatory circuit to a control electrode of said third electron discharge device, means for maintaining negative bias voltages on said second and third electron discharge devices, means adapted to transmit the voltage variations at the anodes of said second and third electron discharge devices to the electron beam deflecting means of a cathode ray tube.

2,653,275

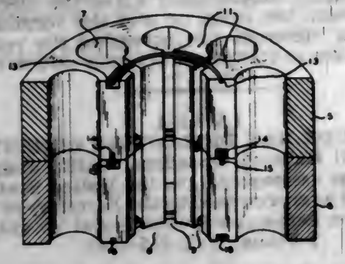
MAGNETRON ANODE STRUCTURE

Edgar Everhart, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application June 1, 1945, Serial No. 597,032
2 Claims. (Cl. 315—40)

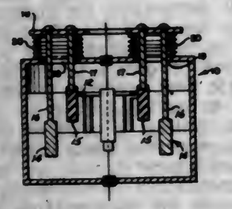
2. A magnetron having a cathode and an anode, said anode comprising; a plurality of cylindrical blocks of conductive material terminating in plane faces perpendicular to the axis of said cylindrical block, an inner cylindrical chamber formed in each of said cylindrical blocks, coaxial thereto; outer cylindrical chambers equi-spaced about said inner chamber, equidistant therefrom and connected thereto by radial slots, said chambers and said slots extending axially through said cylindrical blocks; metallic rings positioned within each plane face of said cylindrical blocks, sections of said cylindrical

blocks between adjacent slots completely enclosing said rings intermediate said inner and outer chambers, said rings engaging alternate sections between said slots, the remaining sections be-



tween said slots being recessed to avoid said rings, said cylindrical blocks positioned with said alternate sections of one plane face engaging said other sections of the contacting plane face of the adjoining cylindrical block.

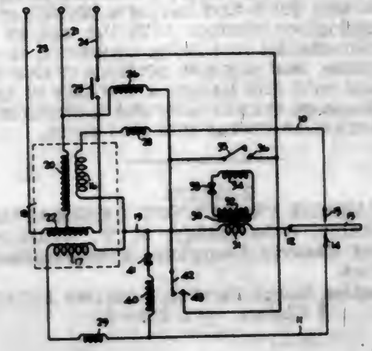
2,653,276
TUNABLE MAGNETRON TUBE
Franzo H. Crawford, Williamstown, Mass., assignor to the United States of America as represented by the Secretary of War
Application January 3, 1946, Serial No. 638,896
9 Claims. (Cl. 315—40)



1. A tunable magnetron comprising a plurality of cavity resonators, frequency adjusting means including a plurality of inductance loading conductive elements and a plurality of dielectric insert elements, said inductance loading elements and said dielectric insert elements being appreciably unequal in reactance varying properties in adjacent cavities, all of said inductance loading and all of said dielectric insert elements being adjustably supported within the resonators of said magnetrons.

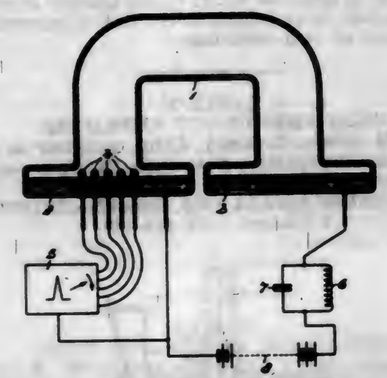
2,653,277
WELDING APPARATUS AND WELDING SYSTEM
Ian Jack Pickering, Birmingham, England, assignor to The General Electric Company Limited, London, England
Application October 5, 1951, Serial No. 249,902
In Great Britain April 26, 1950
10 Claims. (Cl. 315—139)

1. Two-phase welding apparatus with which two electrodes are arranged to be used simultaneously and in close proximity, said electrodes and the work being arranged to be connected to two phases and the common return lead respectively of a two-phase welding current supply, comprising a Scott-connected transformer for providing said two-phase welding current supply from a three-phase supply, and means responsive to the current flowing in the common return lead to reduce the voltage between the electrodes to a value at which the interelectrode arc is extinguished by disconnecting one of the



three-phase lines from the Scott-connected transformer.

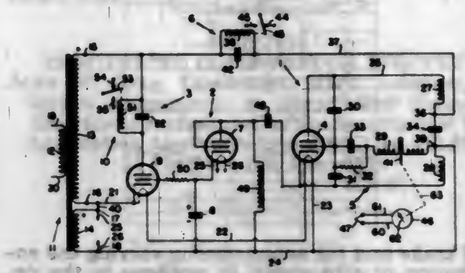
2,653,278
DEVICE COMPRISING AN ELECTRIC DISCHARGE TUBE HAVING A LIQUID CATHODE
Tjiske Douma, San Carlos, Calif., assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application June 13, 1951, Serial No. 231,332
In the Netherlands June 30, 1950
4 Claims. (Cl. 315—336)



1. A vapor discharge device comprising an electric discharge tube having a liquid cathode and a plurality of spaced capacitative ignition electrodes, means to generate ignition pulses, and means to sequentially connect each of said ignition electrodes to said pulse generating means.

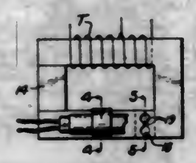
2,653,279
CONTROL APPARATUS
Robert J. Ehret and Warren Moore, Jr., Philadelphia, Pa., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application March 26, 1952, Serial No. 278,610
14 Claims. (Cl. 317—135)

1. Control apparatus, comprising a portion including a load circuit and means adjustable to cause said portion to assume one or another condition, means adapted to produce current flow of a first magnitude in said load circuit when said portion assumes one of said conditions and to produce current flow of substantially smaller magnitude in said load circuit when said portion assumes the other of said conditions, a responsive means connected to said portion, responsive solely to the condition assumed thereby, and including an output circuit, means included in said responsive means and adapted to produce current flow of a first magnitude in said output circuit when said portion assumes said other of said conditions and to produce current flow of substantially smaller magnitude in said output



circuit when said portion assumes said one of said conditions, and first and second current responsive devices individually connected in said load and output circuits, respectively, each of said responsive devices being adapted to assume a first condition when the current flow in the respective circuit has the respective one of said smaller magnitudes, to assume a second condition when the last mentioned current has the respective one of said first magnitudes, and to assume said first condition when there is substantially no current flow in the respective circuit.

2,653,280
STATIONARY INDUCTION APPARATUS
Ordean Kiltie, Fort Wayne, Ind., assignor to Ballastran Corporation, Fort Wayne, Ind., a corporation of Indiana
Application June 17, 1949, Serial No. 99,713
3 Claims. (Cl. 317—165)



1. A stationary induction apparatus for the operation of an external unit having a flux responsive element movable in a fixed path, said apparatus comprising in combination, a stacked laminated closed core for establishing a magnetic circuit adjacent said external unit, said flux responsive element being positioned adjacent the broad face of an outermost core lamination, a flux leakage path in line and under said flux responsive element, said flux leakage path comprising a partial air gap in the outer laminations of the core nearest said flux responsive element, said outer laminations being continuous along their longitudinal edge portions, means for increasing the flux concentration under said flux responsive element, comprising a larger air gap in the intermediate laminations directly under said outer laminations and said flux responsive element, said intermediate laminations being completely discontinuous where they form said larger air gap.

2,653,281
ELECTROSTATIC CAPACITOR
Frank Kopinski, Chicago, Ill., assignor to John E. Fast & Co., Chicago, Ill., a corporation of Illinois
Application October 10, 1950, Serial No. 189,289
2 Claims. (Cl. 317—260)

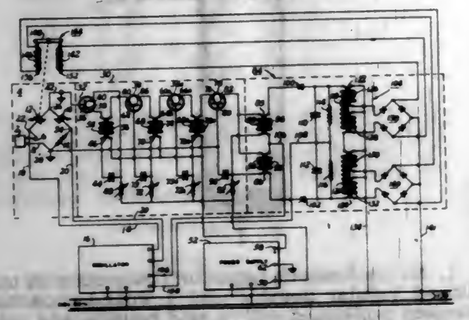


1. An electrostatic capacitor comprising an undipped tubular housing and a wound capacitor element positioned within said housing and substantially filling the same diametrically while leaving unsealed any space therebetween for air to flow therethrough from end to end, said housing being longer than the element and extending therebeyond at both ends to form end cavities in communication with each other through the space between the tubular housing and the capacitor element and each of which is filled with solid dielectric sealing compound having a flow point above 100° C., the compound having been admitted successively to the cavities in the fluid state, the heat-expanded air escaping from the open end of the tubular housing at the first filling of the cavities and the last-filled of said cavities being at least of such depth, from the end of the housing to the adjacent end of the element, that the weight of the fluid compound therein, when filled, is sufficient to counteract the augmented internal pressure of the air entrapped between the tubular housing and the capacitor element resulting from the increased temperature thereof induced by the heat of the fluid compound, said dielectric seals being in direct intimate bonded engagement with said capacitor element.

2. In the manufacture of an electrostatic capacitor capable of withstanding an operating temperature of 100° C. or more, the herein described method consisting in arranging a wound capacitor element within an undipped tubular housing open at the ends and extending beyond the capacitor element to form end cavities and having a space between the tubular housing and the capacitor element providing an air passage establishing communication between the end cavities, forming a plug of the order of one-eighth inch in depth in one of the end cavities by filling the same with hot fluid dielectric sealing compound having a flow point above 100° C. while the cavity at the other end of the housing is open, allowing heat-expanded air to escape from the open end of the housing and thereby relieving the dielectric sealing compound in the filled cavity of augmented pressure so that no air bubbles will be forced through the relatively thin plug, thereafter filling the other end cavity of the tubular housing with the hot fluid dielectric sealing compound to a depth of at least three-sixteenth inch in order to counteract the augmented pressure of the entrapped air and prevent air bubbles passing

through the seal of said last-filled cavity, and finally subjecting said sealed assembly to a first dip coating in a molten wax.

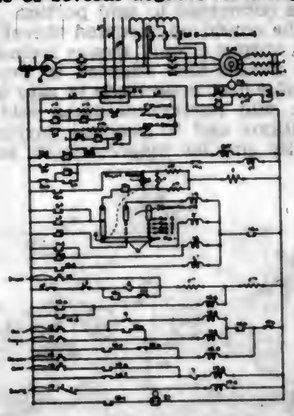
2,653,282
ELECTRIC MOTOR FOLLOW-UP SYSTEM FOR MEASURING
Horace E. Darling, North Attleboro, Mass., assignor to The Foxboro Company, Foxboro, Mass.
Application June 28, 1952, Serial No. 296,227
1 Claim. (Cl. 318—21)



A measuring system comprising a high-impedance bridge circuit having input terminals and output terminals and including a variable condenser for rebalancing the bridge, condition-responsive sensing means connected to and forming part of said bridge circuit, signal generating means connected to said input terminals for energizing the bridge circuit with alternating current, a first transistor having a base electrode connected to said first output terminal of said bridge circuit, an interstage transformer having primary and secondary windings, circuit means connecting said primary winding between said second output terminal and the emitter electrode of said first transistor, amplification means coupled to the secondary winding of said interstage transformer and including a second transistor having a base electrode connected to said second output terminal of said bridge circuit, a source of voltage supply having at least two supply terminals, circuit means connecting said secondary winding of said transformer between the emitter electrode of said second transistor and the first of said voltage-supply terminals, and means connecting the second of said voltage-supply terminals to the collector electrodes of said first and second transistors and including first and second separate manually-adjustable resistance means in series respectively with said collector electrodes, phase-detecting means coupled to said signal generating means and to the output of said amplification means, direct-current amplification means connected to the output of said phase-detecting means, and reciprocating motor means connected to the output of said amplification means and to said adjustable rebalancing condenser.

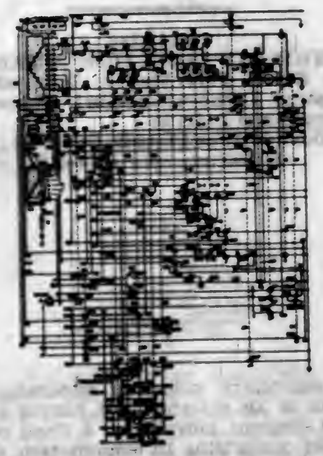
2,653,283
CONTROL FOR MULTIMOTOR DRIVES
Cyril P. Feldhausen, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application April 18, 1951, Serial No. 221,668
25 Claims. (Cl. 318—46)

1. A multi-motor drive comprising a first motor for starting and slow speed operation, a second motor for higher speed operation, coupling means for connecting and disconnecting said motors, a variable electrically energized brake for said first motor, and control means for automatically selecting one of several degrees of energization of



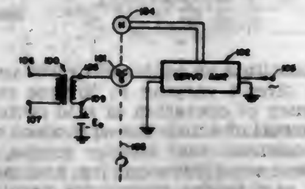
said brake and for automatically varying the energization of said clutch in response to the degree of energization selected.

2,653,284
MOTOR-PROTECTION DURING DYNAMIC BRAKING
George R. Purifoy, Pittsburgh, Pa., and William L. Barclay, Jr., Scarsdale, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 26, 1952, Serial No. 295,794
22 Claims. (Cl. 318—56)



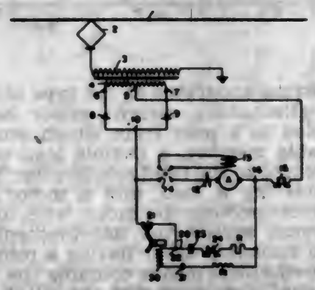
1. A motor-controlling assembly, including the combination, with a series-motor means to be controlled, said series-motor means including a motor-armature and a series field winding connected in series therewith, of: (a) a supply-circuit for the series-motor means; (b) a power-switch means, for establishing a power-circuit for energizing the series-motor means from the supply-circuit; (c) a braking-switch means, for establishing a dynamic-braking circuit for the series-motor means; (d) a progressively operating braking-controlling means, for controlling the braking-adjustment of the dynamic-braking circuit during dynamic-braking conditions, said braking-controlling means including a braking-controlling limit-relay means having an operating-coil which is energized to be responsive to conditions which accompany a lower-than-desired braking-current in the dynamic-braking circuit, and means for progressively operating said braking-controlling means under the control of said braking-controlling limit-relay means; and (e) an induction-means for recalibrating the response of said braking-controlling limit-relay means in response to transient braking-current conditions in the dynamic-braking circuit, said induction-means having a magnetizable flux-circuit which is separate from the motor-field.

2,653,285
ELECTRICAL COMPARATOR CIRCUIT
John W. Gray, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application August 30, 1945, Serial No. 613,609
15 Claims. (Cl. 318—227)



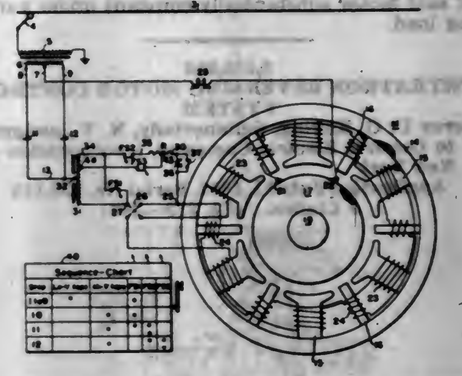
4. In combination, a servo system for controlling the rotation velocity of a shaft, said servo system including a comparator system, a direct current generator, a motor having a shaft for driving said generator means for applying a first direct voltage, a source of alternating voltage, and the direct voltage output of said generator to said comparator circuit, means included in said comparator circuit for comparing the peak amplitude of said alternating voltage input and said direct voltage output of said generator to give a direct voltage indicative of the difference between the two, means for applying said difference direct voltage output to control said motor, said motor and said generator being connected to said shaft.

2,653,286
PULSATING-CURRENT MOTOR
Lloyd J. Hibbard, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 5, 1951, Serial No. 224,748
10 Claims. (Cl. 318—246)



1. In combination, a direct-current motor-means, a motor-circuit for said motor-means, pulsating-current supply-terminals for said motor-circuit for supplying said motor-circuit with a direct current having a substantial ripple consisting predominantly of a predetermined alternating current frequency, and a ripple-reducing motor-shunting filter connected in shunt-circuit relation to at least some portion of the motor-means, said filter comprising a serially connected capacitor and inductor, the inductive impedance being slightly larger than the capacitive impedance of said filter at said predominant ripple-frequency.

2,653,287
RECTIFIER-POWERED VEHICLE
Lloyd J. Hibbard, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 26, 1951, Serial No. 228,426
6 Claims. (Cl. 318—249)

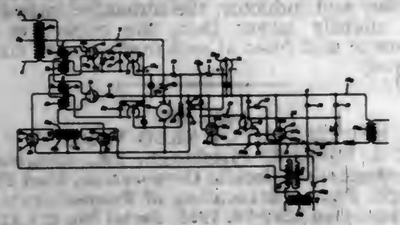


1. In combination, a direct-current motor-means, a motor-circuit for said motor-means, pulsating-current supply-terminals for said motor-circuit for supplying said motor-circuit with a direct current having a substantial ripple consisting predominantly of a predetermined alternating-current frequency, a shunt including a substantial amount of resistance, a connection-means for, at times, connecting said shunt in shunt-circuit relation to at least some portion of the motor-means, and a mutual-inductance load-dividing means having two branch-circuits in which the mutual inductance tends to maintain a predetermined division of the alternating-current ripple-component of the current in the motor-circuit, said connection-means including means for at such times connecting said load-dividing means with one of said branch-circuits serially including said shunted portion of the motor-means and with the other of said branch-circuits serially including said shunt and connected in shunt-circuit relation to said shunted portion of the motor-means, whereby to cause the flow of a substantial portion of the ripple in said shunt.

2,653,288
THYRATRON CONTROL SYSTEM FOR SERIES MOTORS
Ernest F. Kubler, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 19, 1951, Serial No. 237,531
7 Claims. (Cl. 318—249)

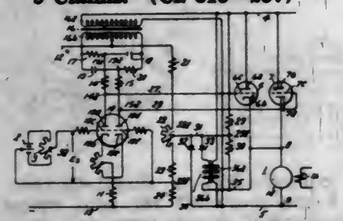
1. An electronic motor control system comprising in combination a direct current series motor, means including a controlled rectifier for supplying a rectified current to the armature circuit of said motor, means for deriving substantially entirely from said current a reference voltage proportional thereto, means for deriving a signal voltage from the armature terminals of said motor, and electric valve means responsive substantially solely to the difference of said derived

voltages for controlling said rectifier to maintain a constant ratio between said armature current



and said armature voltage to maintain the speed of said motor substantially constant under varying load.

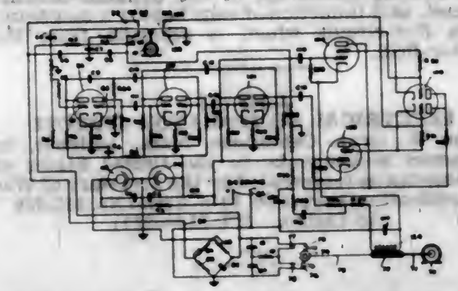
2,653,289
THYRATRON REVERSING MOTOR CONTROL SYSTEM
Leroy U. C. Kelling, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 11, 1951, Serial No. 236,156
9 Claims. (Cl. 318—257)



7. A motor control system comprising in combination, a pair of alternating voltage supply conductors, an electric motor having a first armature terminal connected to a first of said supply conductors, a first electric valve having an anode connected to the second of said supply conductors, a cathode connected to the second terminal of said armature and a control electrode, a second electric valve reversely connected in parallel with said first valve and provided with an anode, a cathode and a control electrode, a source of variable control voltage and connections from said source to said cathodes and control electrodes for supplying voltages between said cathodes and control electrodes for selectively increasing the conductivity of said valves to effect rotation of said motor in a selected direction, means for deriving a voltage from said armature terminals and supplying said derived voltage between said cathodes and control electrodes comprising a voltage divider connected across a portion of the armature circuit of said motor, a connection from a point on said divider to a point on said control voltage source, and connections from points on said divider to said armature terminals, and means for supplying between the cathode and control electrode of said second valve a voltage equal in magnitude and opposite in phase to the voltage of said alternating voltage supply conductors.

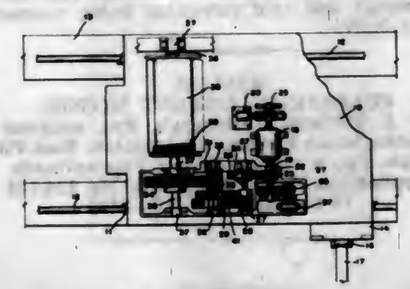
2,653,290
ELECTRICAL SYSTEM
Frederick J. Hooven, Dayton, Ohio
Original application April 29, 1944, Serial No. 533,431, now Patent No. 2,555,491, dated June 5, 1951. Divided and this application May 15, 1951, Serial No. 226,563
12 Claims. (Cl. 318—309)

1. An electrical system for regulating the rate of operation of an element comprising means for storing electrical energy, a condenser, switch means in circuit with said condenser and said storage means and operable to provide for alternately charging said condenser from said storage means to substantially the voltage thereof and thereafter substantially discharging the same, means for operating said switch means at a speed corresponding to the rate of operation of said ele-



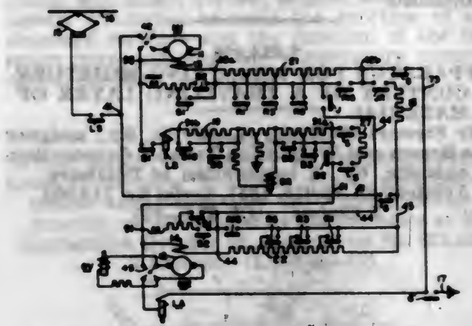
ment to constitute an equivalent resistance of said condenser circuit varying in inverse relation to the frequency of operation of said switch means, a bridge circuit of which the equivalent resistance of said condenser, said storage means, and said switch means constitutes one leg, and means controlled by said bridge circuit for regulating the speed of operation of said element to maintain a predetermined speed thereof.

2,653,291
APPARATUS FOR CONTROLLING HOISTS AND THE LIKE
Edgar C. Rice, Blue Island, and George M. Rothenberger, Harvey, Ill., assignors to Whiting Corporation, Harvey, Ill., a corporation of Illinois
Application April 2, 1951, Serial No. 218,842
8 Claims. (Cl. 318—370)



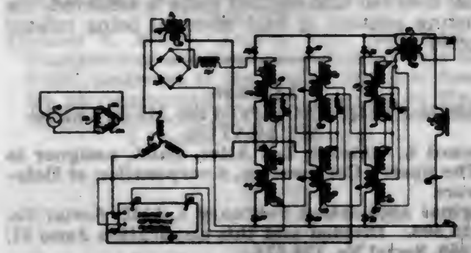
8. In hoisting apparatus of the type utilizing a reversible alternating current motor having a shaft coupled to a gear train which terminates in a rotatable member, a flexible load-engaging member secured to the rotatable member for raising and lowering a load, and a motor control switch interconnecting the motor with an alternating current source, the improvement which includes an induction brake having a rotor and a field coil, mechanical means coupling the rotor to the motor shaft for increasing the relative speed of the rotor, a field coil energizing circuit including conductors for transmitting current from said alternating current source to the coil, and a rectifier and a variable resistance in said circuit, said variable resistance being connected for carrying the effective current delivered to the field coil and adjustable independently of the motor control switch.

2,653,292
VOLTAGE AND CURRENT RESPONSIVE DYNAMIC BRAKING CONTROL SYSTEM
George R. Purifoy, Pittsburgh, and Charles F. Jenkins, Laughlintown, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 15, 1950, Serial No. 156,058
13 Claims. (Cl. 318—331)



1. In a control system, in combination, a motor for propelling a vehicle, switching means for establishing dynamic braking connections for the motor, control means including a plurality of interlock-progression switches operable in sequential relation for controlling the dynamic braking current, a relay responsive to the dynamic braking current, a relay responsive to the motor voltage, means for interrupting said interlock-progression under the control of said voltage-responsive relay throughout the operation of said control means, and means for interrupting the interlock-progression under the control of said current-responsive relay whenever said voltage-responsive relay fails to respond throughout the operation of said control means.

2,653,293
BATTERY CHARGER
Henry M. Hugo, Lorain, Ohio, assignor to Lorain Products Corporation, a corporation of Ohio
Application October 17, 1947, Serial No. 780,496
12 Claims. (Cl. 321—25)



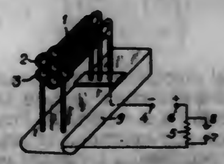
1. A regulated rectifying arrangement comprising in combination, a set of alternating current terminals, a pair of direct current terminals, means for supplying alternating current to said alternating current terminals, a rectifier element connected between each of said alternating current terminals and each of said direct current terminals, a control reactor connected in series with each of said rectifier elements, control winding means on said control reactors, a source of reference potential, a control circuit including said source of reference potential and said control windings, said control circuit extending from one to the other of said direct current terminals, and a series resonant circuit connected across said direct current terminals providing a low impedance path for ripple-frequency voltage appearing across said direct current terminals.

2,653,294
APPARATUS FOR ELECTRICAL WELL LOGGING
Fred L. McMillan, Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application April 21, 1949, Serial No. 88,787
11 Claims. (Cl. 324—10)



1. An electrode structure for electric well logging which comprises, in combination, an elongated tubular support, a plurality of sleeves of insulating material spaced along said tubular support and mounted concentrically therewith, each of said sleeves having a tapered threaded portion at each end thereof, and an electrode disposed between each pair of sleeves, each electrode having a central passage formed therein of greater diameter than said tubular support, tapered threaded portions being formed at the respective ends of said passage which are complementary with the tapered threaded portions of the two adjacent sleeves.

2,653,295
APPARATUS FOR MEASURING PRESSURES AND PRESSURE VARIATIONS
Carl Olof Carlson, Stockholm, Sweden
Application June 1, 1948, Serial No. 30,238
In Sweden June 3, 1947
7 Claims. (Cl. 324—33)



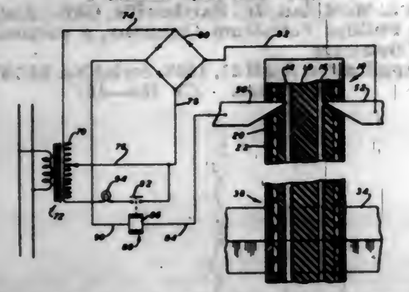
1. An apparatus for measuring pressures and pressure variations comprising a pair of electrodes, one of said electrodes terminating in a point and the other being a ring electrode concentrically surrounding the point end of the first electrode, a high voltage source for applying a potential difference of preselected constant magnitude between said electrodes to produce a corona therebetween, and an instrument in series with said pairs of electrodes for measuring the current between said electrodes caused by said corona.

2,653,296

METHOD OF TESTING MULTICONDUCTOR INSULATED WIRES

Harry B. Weaver, Dundalk, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application May 25, 1949, Serial No. 95,318
1 Claim. (Cl. 324—51)



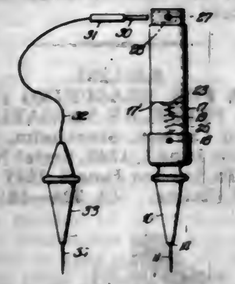
The method of testing individually insulated conductors of multiconductor wires, which comprises connecting an end of one insulated conductor of a length of such wire to an adjacent end of another conductor of the wire, applying a difference of potential across the other ends of the same conductors, ascertaining whether any current flows in the circuit formed by the connected conductors to determine whether said conductors are electrically continuous from end to end, disconnecting the first-mentioned ends of said conductors while the difference of potential is still applied to the other ends of conductors, and ascertaining whether any current flows in the open circuited conductors to determine whether there are any low resistance faults in the insulating coverings on the said conductors.

2,653,297

ELECTRIC CIRCUIT TESTING DEVICE

Michal Mohylowski, Kansas City, Mo.

Application August 13, 1951, Serial No. 241,591
5 Claims. (Cl. 324—51)



1. An electric circuit testing device comprising a tube, a handle attached to said tube and projecting therefrom in a mutually longitudinal relation, a probing pin extended through said handle in an axial relation, a terminal carried by the inner end of said probing pin and supported within said tube, an electro-magnetic core within said tube supported by the opposite end thereof, a coil around said core, said core being in an axial relation with said tube, a rod of magnetic material extended within said core by one of its ends, a terminal carried by the other end of said rod, a coil spring interposed between said core and said last named terminal for normally maintaining the latter in contact with said first named terminal, said coil and said coil spring being connected, and another probing pin, said latter pin being attachable to the said opposite end of said tube, said probing pins, terminals, coil, coil spring and rod being in a circuit, when an electric current is passed through said circuit said coil being adapted to energize said core for shifting said rod against the action of said coil spring for separating said terminals and for establishing a gap therebetween, an electric spark being engendered through said gap when the electric circuit is maintained.

2,653,298

APPARATUS FOR MEASURING MOISTURE CONTENT OF A TRAVELING LAYER OF MATERIAL

Billy Stewart McKinley, Louisville, Ky., assignor to Brown and Williamson Tobacco Corporation, Louisville, Ky., a corporation of Delaware

Application April 9, 1951, Serial No. 219,908
8 Claims. (Cl. 324—65)



1. Apparatus for continuously measuring the moisture content of a traveling layer of particulate material which comprises a movable conveyer belt or the like on which said particulate material is adapted to be carried in the form of a layer the thickness of which may vary, a roller urged toward said conveyer so as to be movable into engagement with the top surface of the layer of the material thereon, a pair of contact rings uniformly spaced apart on the layer-engaging surface of said roller and adapted to make continuous contact with said layer of material as it moves under said roller with said conveyer belt, said roller rolling thereover, a pair of slip rings on said roller, each of said slip rings being electrically connected to one of said contact rings, and stationary brushes engaging and making sliding electrical connection with said slip rings, said brushes being adapted to be connected to a source of electric potential and in circuit with a measuring means, whereby measurement of an electrical characteristic of said particulate material between said contact rings is achieved, the moisture content of said material being related thereto.

2,653,299

HIGH-FREQUENCY POWER MEASURING APPARATUS

Edward L. Ginzton, Los Altos, Calif., assignor to The Sperry Corporation, a corporation of Delaware

Original application February 4, 1942, Serial No. 429,508. Divided and this application June 27, 1950, Serial No. 170,574
5 Claims. (Cl. 324—95)



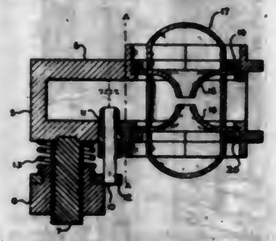
3. Apparatus for measuring high frequency energy, said apparatus comprising a section of coaxial line adapted to transmit said high frequency energy, the coaxial line having an inner conductor and an outer conductor, a barretter wire unit disposed in alignment with said inner conductor and connected in series therewith, a temperature compensating resistor in the form of a resistance wire coil concentrically positioned around the coaxial line section and said barretter wire unit, a direct current source, said barretter wire unit and compensating resistor being connected in series across said direct current source, a pair of standard resistors connected in series across said direct current source, and a galvanometer connected between the junction of said standard resistors and the junction of the barretter wire unit and the temperature compensating resistor.

2,653,300

WIDE BAND TRANSMIT RECEIVE SWITCH

Louis D. Smullin, Arlington, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application October 10, 1945, Serial No. 621,567
2 Claims. (Cl. 333—13)



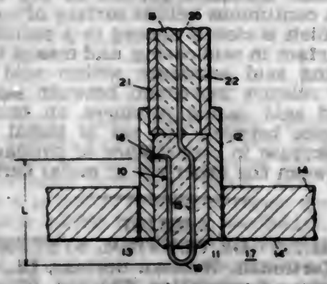
1. A tunable switching device for use with electromagnetic energy of a wide band of frequencies comprising a conductive chamber, said chamber being effectively composed of first and second contiguous cavity resonator sections, one end of said first section being adapted for coupling to electromagnetic transmission means, a spark discharge device mounted solely in said first section, said second section having a high Q at all times, and means within said second section for tuning said second section.

2,653,301

COAXIAL RESONANT LINE COUPLING MEANS

Thomas E. Moore, Austin, Tex., and Karl E. Spangenberg and Howard M. Zeidler, Palo Alto, Calif., assignors to the United States of America as represented by the Secretary of War

Application April 30, 1946, Serial No. 666,002
3 Claims. (Cl. 333—24)



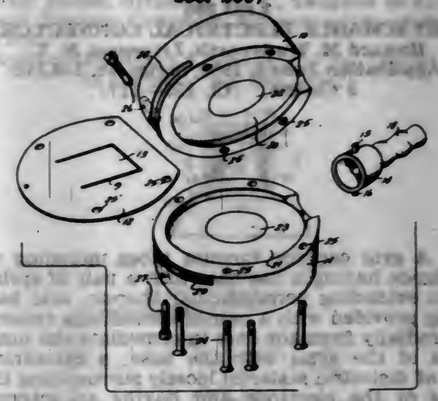
1. A composite probe-loop coupler comprising a dielectric slug, a hollow tube enclosing said dielectric slug, and an elongated conductor passing through said tube and having one end protruding out of one end of said slug, the other end of said conductor being doubled back to form a loop, said loop having a first portion embedded in said dielectric slug and a second portion protruding out of the other end of said slug and out of one end of said tube, said other end of said conductor being connected to said tube at a substantial distance from said one end of said tube, said loop having an elongated, substantially rectangular shape with its longer dimension being effectively equal to a quarter wave length at an operating frequency of said coupler.

2,653,302

ACCELEROMETER PICKUP OF VERY SMALL SIZE AND WEIGHT

Wolf-Wito von Wittern, Dayton, Ohio

Application October 10, 1950, Serial No. 189,461
1 Claim. (Cl. 336—134)
(Granted under Title 35, U. S. Code (1952), sec. 266)



A variable reluctance type accelerometer, comprising a pair of disks, means for securing said disks together, a pair of coils positioned within an annular groove in the mating face of each of said disks and outwardly of and having inner surfaces substantially flush with the inner unattached end of the associated pole thereof, mating areas of said disks undercut to impart limited flexibility thereto, screw means threading axially in apertures in said disks such that the screw heads are accessible for adjustment from outwardly of said disks and the tips of the screw means remote from the heads bear against to force together the undercut mating areas of said disks, and a membrane clamped between the mating faces of said disks and having a cantilever supported tongue positioned for movement with one degree of freedom between the poles of said disks in response to mechanical acceleration.

2,653,303

SOCKET FOR INCANDESCENT LAMPS OR DISCHARGE TUBES COMPRISING TWO PARALLEL CONTACT SLEEVES

Johannes Hendricus Franciscus van Werd, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application August 24, 1950, Serial No. 181,146
In France September 1, 1949
3 Claims. (Cl. 339—50)

1. An electrical socket connector adapted for use with electric fixtures having two contact pins extending longitudinally and approximately parallel to each other comprising a base of insulating material having recesses for receiving the contact pins and defining a pair of guide surfaces at right angles to one another, a pair of contact sleeves

slideable along said guide surfaces in said recesses and adapted to receive the contact pins, and an adjustable member of insulating material in said base having surface portions which are approxi-



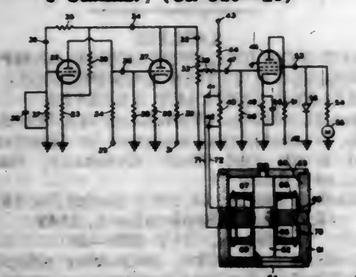
mately parallel to said guide surfaces, said contact sleeves being disposed between said guide surfaces of said base and said surface portions of said adjustable member.

2,653,264
DETACHABLE ELECTRICAL CONNECTOR
Howard M. Wadsworth, Liverpool, N. Y.
Application June 6, 1950, Serial No. 166,318
3 Claims. (Cl. 339—217)



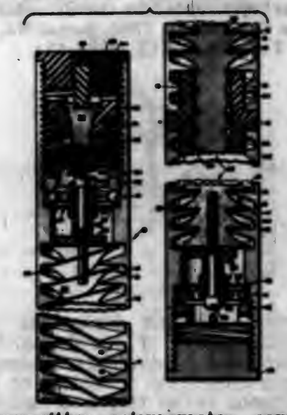
1. A grid cap for vacuum tubes including an electrode having a flat base with a pair of spring arms extending perpendicular thereto, said base being provided with a pair of thread lugs extending radially from the base intermediate the junctions of the arms with the base; a cylindrical cup of dielectric material loosely surrounding the arms of the electrode and having an internal thread into which the thread lugs of the base are screwed to anchor the electrode to the bottom of the cup, said cup having a cylindrical radial opening in its side located adjacent one of the lugs of the electrode; and means for rigidly anchoring the electrode in the cup comprising an insulated cable having a press fit in said opening extending radially across one of said lugs and rigidly attached to the base of the electrode.

2,653,265
METHOD OF AND APPARATUS FOR MEASURING THE POLARITY OF SEISMOMETERS
Earl L. De Shaze, Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application June 10, 1949, Serial No. 98,339
6 Claims. (Cl. 340—15)



1. Apparatus for determining the polarity of a seismometer which comprises, in combination, an oscillator, a source of direct current, an output impedance, means for impressing the output of said oscillator and said direct current source across said impedance, a seismometer incorporating a coil disposed in a magnetic field, leads connecting said coil to said output impedance and thereby in circuit with said oscillator and said direct current source, the direct current moving the coil in one direction when said leads are connected in one polarity, and said direct current moving the coil in the opposite direction when said leads are connected in the opposite polarity, and means for measuring the alternating current voltage drop across said impedance.

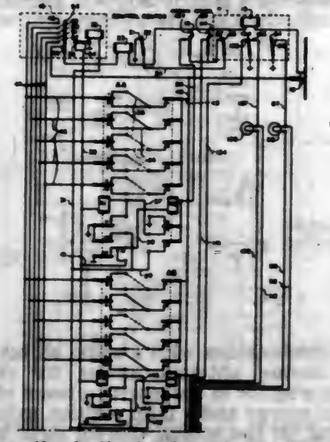
2,653,266
SEISMOMETER
Raymond G. Piety, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 3, 1949, Serial No. 119,267
12 Claims. (Cl. 340—17)



6. A capacitive seismometer comprising, in combination, a casing having an interior passage, two helical threaded portions of opposite pitch disposed in adjoining relation within said passage, the adjacent ends of said threaded portions being cut away to form a cylindrical bore, a sleeve of insulating material disposed within said bore and having a flanged portion dividing said casing into two sections which are electrically insulated from each other, said threaded portions each having a continuous helical surface of conductive metal, an armature having two exterior helical threaded portions in said passage, the threaded portions of said armature and said passage being interleaved, said armature including a cut away cylindrical portion between said threaded portions which fits within said insulating sleeve, each threaded portion of the armature having a continuous helical surface of conductive metal which is closely spaced to a corresponding metal surface in said casing, and means for freely suspending said armature within said passage whereby relative movement between said armature and said casing produces an increase in capacitance between one set of metal surfaces and a decrease in capacitance of similar magnitude between the other set of metal surfaces.

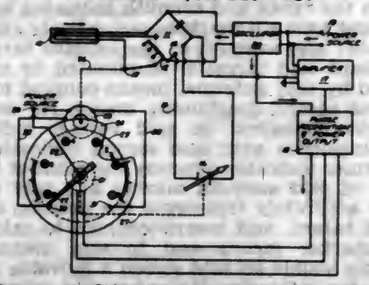
2,653,267
ALTITUDE CONTROL SYSTEM
Frank Martindell, Western Springs, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application March 22, 1949, Serial No. 82,000
11 Claims. (Cl. 340—33)

1. In an aircraft altitude control system, a pair of control stations, an indicator board at each of said stations having a pair of different colored lights corresponding to each altitude at which aircraft may be assigned, means at each of said stations for assigning an altitude to an aircraft including means for transmitting a series of permutative signal impulses to the other station indicative of the assigned altitude, means at said other station responsive to said series of permutative signal impulses for illuminating one of said colored lights corresponding to the assigned



altitude on the indicator board at said other station, other means at said other station responsive to said series of permutative signal impulses for transmitting a second series of permutative signal impulses to said first station, and means at said first station responsive to said second series of permutative signal impulses for illuminating the light of the other color corresponding to the assigned altitude on the indicator board at said first station.

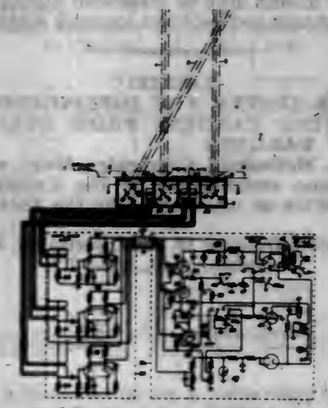
2,653,268
RANGE SHIFTING INSTRUMENT
Albert Allen, Sharon, Mass., assignor to The Foxboro Company, Foxboro, Mass.
Application October 25, 1949, Serial No. 123,506
2 Claims. (Cl. 340—187)



1. In a multi-range instrument wherein a measuring system measures the value of a variable condition, an indicating device for denoting said variable condition value, said device comprising a primary, rotatable, range dial with range division indicia thereon, a secondary, fixed, within-range dial concentric with said range dial and having within-range division indicia thereon, with said secondary indicia in adjacent, aligned association with said primary indicia according to the position of rotation of said range dial, in indicator arm movable over said dials in cooperation with the said indicia thereon, driving means for said arm under the control of

measurement signals in said measuring system, an electrical contact on said secondary dial, an electrical circuit including said indicator arm and said contact, driving means for said primary dial operated from an independent power source through said circuit, with the engagement of said arm and said contact necessary to the actuation of said primary dial driving means, and movement transfer connections between said primary dial driving means and said measuring system, and between said indicator arm driving means and said measuring system, as means of associating the operation of said indicating device with the operation of said measuring system.

2,653,269
OBJECT DETECTION
Walter Hauer, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York
Application March 9, 1950, Serial No. 148,721
15 Claims. (Cl. 340—228)

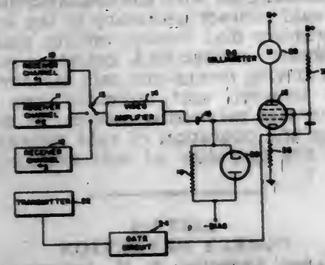


1. The combination, in a system for detecting the passage of an object through a volume of space, of a plurality of light responsive means, two of said light responsive means being arranged to respond to interruption of respective sheets of light defining different surfaces of said volume of space, and a third of said means being responsive to interruption of a third sheet of light intersecting said first sheets along lines lying in other surfaces of said space, and means controlled by said light responsive means to operate in accordance with the sequence of interruption of said sheets.

2,653,310
GAIN MEASURING DEVICE
Richard C. Allen, Carthage, Mo., and Jacob Millman, Brookline, Mass., assignors, by direct and mesne assignments, to the United States of America as represented by the Secretary of War
Application December 10, 1945, Serial No. 634,672
4 Claims. (Cl. 343—5)

3. A gain measuring apparatus for use with a radio-object locating system having a pulse transmitter for transmitting radio pulses toward reflecting objects and a pulse receiver having discrete reception intervals for receiving echoes reflected from said reflecting objects, said apparatus being separate from said receiver and comprising rectifying means, means for applying the output of said receiver to said rectifying means,

means synchronized by said transmitter for rendering said rectifying means inoperative for the portion of each reception interval after the transmission of each pulse from said transmitter during which echoes of appreciable amplitude are



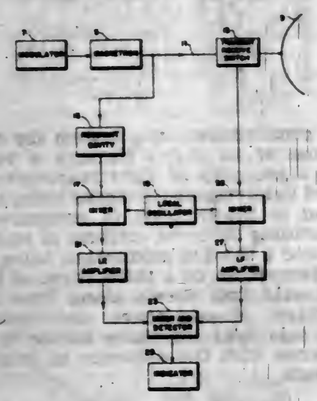
received by said receiver, and means for measuring the average output of said rectifying means during the remainder of each reception interval of said receiver, whereby the relative gain of said receiving means may be measured during the operation of said radio-object locating system.

2,653,211

RADAR SYSTEM FOR DISTINGUISHING MOVING TARGETS FROM STATIONARY TARGETS

Robert A. McConnell, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application October 19, 1945, Serial No. 623,394
3 Claims. (Cl. 343—7.7)



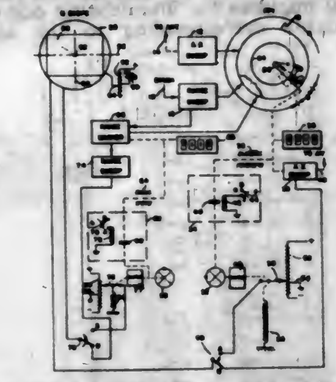
1. In a coherent pulse-echo radio object locating system of the character described, means for transmitting high carrier frequency exploratory pulses of radiant energy, a cavity resonator adapted to resonate at substantially said carrier frequency, means for energizing said cavity resonator by a portion of said exploratory pulses to produce reference oscillations, means for reducing the frequency of said reference oscillations to produce a second set of reference oscillations having an intermediate frequency, means for reducing the carrier frequency of received echo pulses to a carrier frequency substantially equal to said intermediate frequency, means for combining said last mentioned pulses with said second set of reference oscillations, means for detecting the combined pulses to obtain video pulses, and indicating means for translating at least a portion of said video pulses to develop information as to the characteristics of said object.

2,653,212

INDICATOR APPARATUS FOR RADIO OBJECT LOCATING SYSTEMS

Leland J. Haworth, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application August 1, 1945, Serial No. 608,157
7 Claims. (Cl. 343—11)



1. In combination with a radio object locating system having antenna means for repeatedly scanning a sector in space with a beam of electromagnetic energy and a plan position indicator for displaying on the screen thereof data indicative of the range and azimuth of targets illuminated by said system, an improved apparatus for accurately determining the range and azimuth to one of said targets comprising a moveable mechanical azimuth marker mounted over said screen, means for rendering visible on said screen a moveable range marker, first and second positioning means for varying the position of said azimuth marker and said range marker respectively, vernier indicator means, means for causing a first indication to appear on said vernier indicator representative of the point of intersection of said azimuth marker and said range marker, means for causing a second indication to appear on said vernier indicator representative of a selected target, the relative location of said two indications on said vernier indicator being indicative of the difference between the range and azimuth indicated by said range and azimuth markers respectively and the true range and azimuth to the selected target at the instant said target is illuminated by energy radiated by said antenna, means coupled to said first and second positioning means for moving said first indication on said vernier indicator into coincidence with said second indication on said vernier indicator whereby the point of intersection of said azimuth marker and said range marker accurately represents the position of the selected target, and means coupled to said azimuth marker means and to said means for rendering visible on said screen a movable range marker for indicating the range and azimuth to the target represented by said point of intersection.

2,653,213

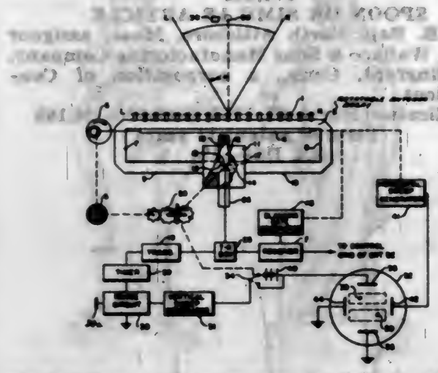
ANTENNA DIRECTION INDICATOR

Roger E. Clapp, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application January 29, 1946, Serial No. 644,161
7 Claims. (Cl. 343—11)

3. A radio-object locating system comprising an antenna for radiating pulses in a directional beam and for receiving echoes reflected from a reflecting object, means for alternately sweeping

said beam clockwise and counterclockwise about a mean position in a given plane, display means, means for presenting a first indication on said display means in response to echoes reflected from said object and received by said antenna during the clockwise sweeps of said beam, means coordinated with said beam sweeping means for displacing said indication from a given position on said display means in a given direction as a function of the angle of said object with respect to the starting position of said clockwise sweeps, means for presenting a second indication on said



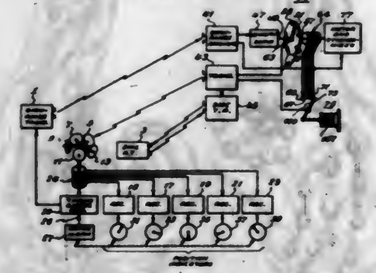
display means in response to echoes reflected from said object and received by said antenna during the counterclockwise sweeps of said beam, means coordinated with said beam sweeping means for displacing said second indication from said given position in said given direction as a function of the angle of said object with respect to the starting position of said counterclockwise sweeps, and means for rotating in said given plane said mean position of beam sweeping, whereby when said mean position passes through said object, said first and second indications are aligned.

2,653,214

AIR TRAFFIC CONTROL SYSTEM

George B. Litchford, Cold Spring Harbor, N. Y., assignor to The Sperry Corporation, a corporation of Delaware

Application December 21, 1949, Serial No. 134,314
8 Claims. (Cl. 343—106)



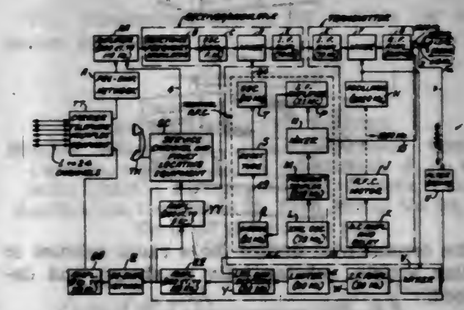
1. An air traffic control system or the like, including at a reference station directive antenna means having at least one response pattern in the form of a narrow beam, receiver means coupled to said antenna, means for rotating said beam in azimuth, a timing signal generator coupled to said beam rotating means for providing a timing signal to define the instants when said beam points in a reference direction such as north, a transmitter, and means for applying said timing signal to said transmitter; an aircraft station including a receiver for reproducing said timing signal, an altimeter, a transmitter and a switch coupled to said receiver and said altimeter and connected to said transmitter to key said transmitter at the instants said beam points at said aircraft station only when said aircraft is within a predetermined altitude layer.

2,653,215

FREQUENCY CONTROL SYSTEM FOR MICROWAVE RELAY TERMINAL STATIONS

Benjamin F. Wheeler, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application February 20, 1951, Serial No. 211,942
19 Claims. (Cl. 343—179)

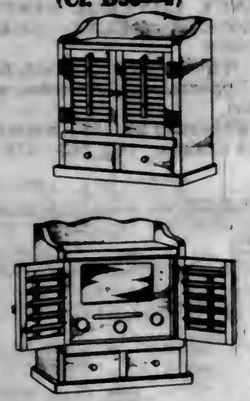


1. In a local station for a radio relay system including a remote station arranged for communication with said local station, means for radiating a wave to said remote station and for receiving a wave radiated therefrom, a source of heterodyning energy, means for heterodyning the received wave with energy from said source to produce a wave of another frequency, means for controlling the frequency of said source to maintain said other frequency at a predetermined value irrespective of variations in the frequency of the received wave, a signal modulated energy source, a heterodyne oscillator, means for mixing the outputs of said last-named source and of said oscillator to produce a beat frequency wave, means for heterodyning said beat frequency wave with energy from said source of heterodyning energy to produce an output wave of predetermined frequency, means for coupling said last-named wave to said radiating means, and means responsive to the frequency of said last-named wave for automatically controlling the frequency of one of the two outputs mixed in said mixing means to maintain said output wave of predetermined frequency substantially at a constant value irrespective of variations in the frequency of said source of heterodyning energy.

DESIGNS

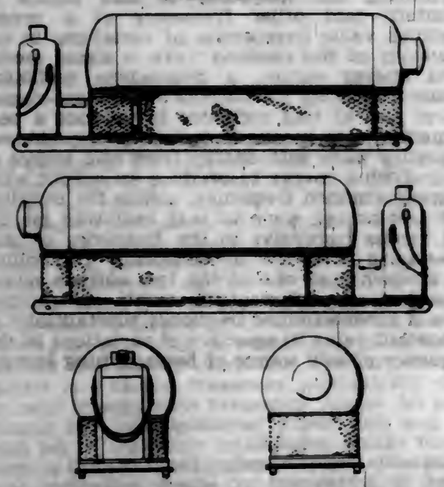
SEPTEMBER 22, 1953

170,439
RADIO CABINET OR SIMILAR ARTICLE
Jackie Ackerman, Los Angeles, Calif., assignor to Guild Radio and Television Company, Los Angeles, Calif., a copartnership
Application April 13, 1953, Serial No. 24,454
Term of patent 14 years
(Cl. D56—4)



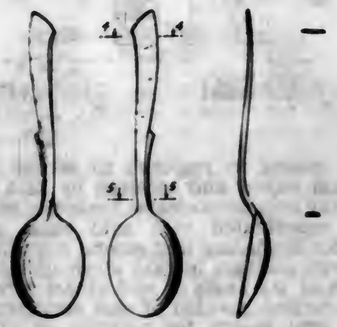
The ornamental design for a radio cabinet or similar article, substantially as shown and described.

170,440
PORTABLE FLUID DISPENSING UNIT
Winfield W. Alsup, Shreveport, La., assignor to The J. B. Beaird Company, Inc., Shreveport, La., a corporation of Delaware
Application April 17, 1953, Serial No. 24,566
Term of patent 14 years
(Cl. D52—2)



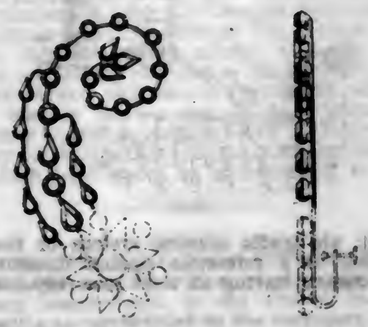
The ornamental design for a portable fluid dispensing unit, as shown.

170,441
SPOON OR SIMILAR ARTICLE
Percy B. Ball, North Attleboro, Mass., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn., a corporation of Connecticut
Application March 23, 1953, Serial No. 24,169
Term of patent 14 years
(Cl. D54—12)



The ornamental design for a spoon or similar article, substantially as shown.

170,442
EAR ORNAMENT OR SIMILAR ARTICLE
Louis Bell, Roxbury, Mass.
Application May 25, 1953, Serial No. 25,186
Term of patent 14 years
(Cl. D45—9)



The ornamental design for an ear ornament or similar article, substantially as shown and described.

170,443
BASE FOR TABLE LAMPS
Emil Bertoloni, Chicago, Ill.
Application April 22, 1953, Serial No. 24,624
Term of patent 7 years
(Cl. D48—20)



The ornamental design for a base for table lamps, as shown.

170,444
BASE FOR TABLE LAMPS
Emil Bertoloni, Chicago, Ill.
Application April 22, 1953, Serial No. 24,625
Term of patent 7 years
(Cl. D48—20)



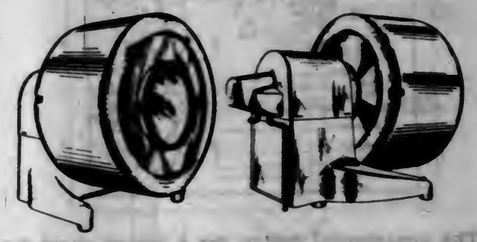
The ornamental design for a base for table lamps, as shown.

170,445
BASE FOR TABLE LAMPS
Emil Bertoloni, Chicago, Ill.
Application April 22, 1953, Serial No. 24,626
Term of patent 7 years
(Cl. D48—20)



The ornamental design for a base for table lamps, as shown.

170,446
POWER BUTTER CHURN
Hilaire Blanchette, Drummondville, Quebec, Canada, assignor to La Compagnie J. A. Gosselin Limitee, Drummondville, Quebec, Canada
Application December 10, 1952, Serial No. 23,618
Term of patent 14 years
(Cl. D23—1)



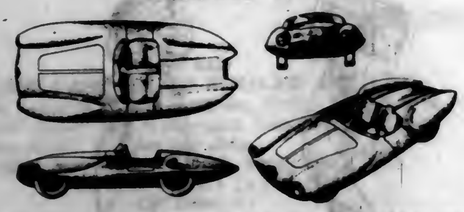
The ornamental design for a power butter churn, as shown and described.

170,447
FIRE HOSE NOZZLE UNIT
Peter Caird, Santa Rosa, Calif., assignor to Clarissa E. Caird, Santa Rosa, Calif.
Application September 8, 1952, Serial No. 21,382
Term of patent 14 years
(Cl. D91—3)



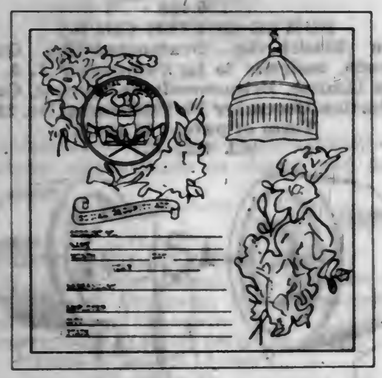
The ornamental design for a fire hose nozzle unit, as shown and described.

170,448
AUTOMOBILE
Gioacchino Colombo, Milan, Italy, assignor to Alfa Romeo Società per Azioni, Milan, Italy, an Italian company
Application April 7, 1953, Serial No. 24,398
In Italy December 12, 1952
Term of patent 14 years
(Cl. D14—3)



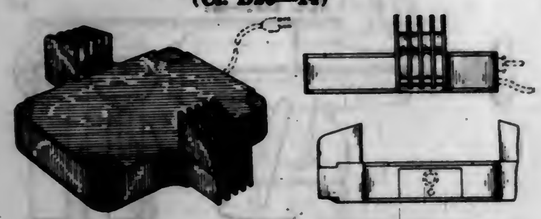
The ornamental design for an automobile, substantially as shown.

170,449
RECORD SHEET FOR SOCIAL SECURITY OR THE LIKE DATA
Collie James Cotton and Dorothy L. Cotton, Ansted, W. Va.
Application August 8, 1952, Serial No. 20,958
Term of patent 14 years
(Cl. D59—2)



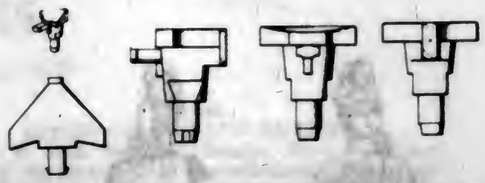
The ornamental design for a record sheet for social security or the like data, as shown and described.

170,450
COMBINATION AIR PURIFIER AND TELEPHONE SET BASE
David C. Craig, Los Angeles, Calif.
Application June 11, 1953, Serial No. 25,435
Term of patent 3½ years
(Cl. D26—14)



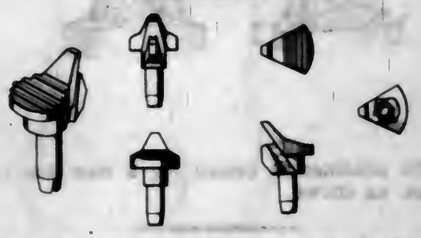
The ornamental design for a combination air purifier and telephone set base, substantially as shown and described.

170,451
SPRAY HEAD FOR AEROSOL BOMBS
Leonard B. Drell, Glencoe, Ill.
Application February 3, 1953, Serial No. 23,420
Term of patent 14 years
(Cl. D62—3)



The ornamental design for a spray head for aerosol bombs, substantially as shown.

170,452
SPRAY HEAD FOR AEROSOL BOMBS AND THE LIKE
Leonard B. Drell, Glencoe, Ill.
Application May 4, 1953, Serial No. 24,830
Term of patent 14 years
(Cl. D62—3)



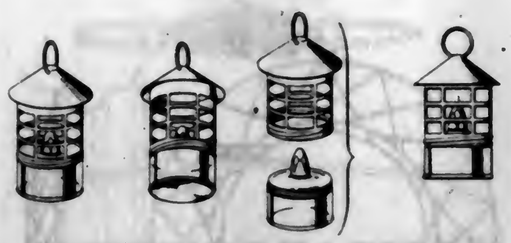
The ornamental design for a spray head for aerosol bombs and the like, substantially as shown.

170,453
SHOULDER CORD
Arthur E. Du Bois and Elizabeth Will, Washington, D. C., assignors to the United States of America as represented by the Secretary of the Army
Application December 4, 1952, Serial No. 22,553
Term of patent 14 years
(Cl. D3—32)



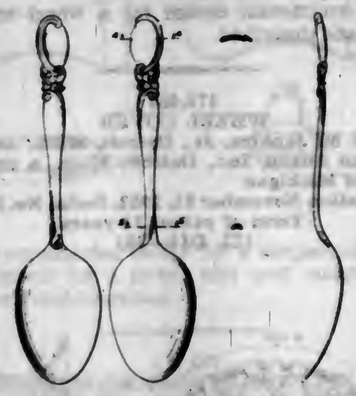
The ornamental design for a shoulder cord, substantially as shown and described.

170,454
COMBINED BOTTLE AND HOLDER THEREFOR
Louis Leon Dujeneequey, Saint-Mande, Paris, France, assignor to Sauce, S. A., Colombes, France, a corporation of France
Application July 21, 1953, Serial No. 26,964
Term of patent 14 years
(Cl. D58—26)



The ornamental design for a combined bottle and holder therefor, substantially as shown.

170,455
SPOON OR SIMILAR ARTICLE
Richard Carlton Gavette, Bristol, Conn., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn., a corporation of Connecticut
Application March 23, 1953, Serial No. 24,157
Term of patent 14 years
(Cl. D54—12)



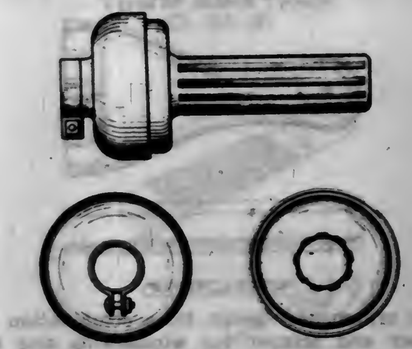
The ornamental design for a spoon or similar article, substantially as shown.

170,456
TAPE CUTTER
Irvin J. Gershen, Hillside, N. J., assignor to Industrial Tape Corporation, a corporation of New Jersey
Application April 7, 1953, Serial No. 24,333
Term of patent 14 years
(Cl. D74—1)



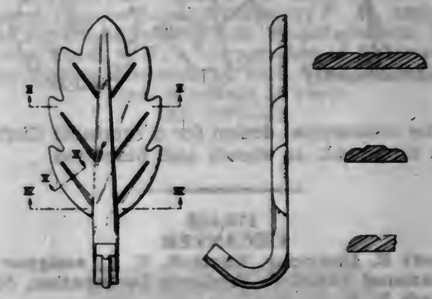
The ornamental design for a tape cutter, substantially as shown and described.

170,457
COMBINATION HANDLEBAR GRIP AND BELL FOR BICYCLES
Harry Golden, New York, N. Y.
Application April 8, 1953, Serial No. 24,407
Term of patent 7 years
(Cl. D72—1)



The ornamental design for combination handlebar grip and bell for bicycles, as shown.

170,458
WALL HOOK
Lurelle Guild, Darien, Conn., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 19, 1953, Serial No. 25,578
Term of patent 14 years
(Cl. D32—8)



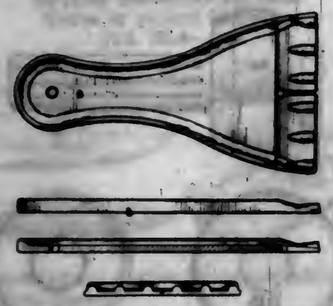
The ornamental design for a wall hook, substantially as shown.

170,459
BOTTLE
Vernon Thiers Hamman, Springfield, Ohio
Application March 2, 1953, Serial No. 23,846
Term of patent 14 years
(Cl. D58—9)



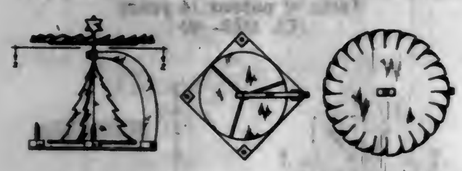
The ornamental design for a bottle, substantially as shown and described.

170,460
COMBINATION ICE CHOPPER AND SCRAPER FOR WINDSHIELDS AND THE LIKE
Alfred K. Hauser, Chicago, Ill.
Application January 30, 1953, Serial No. 12,205
Term of patent 14 years
(Cl. D8—6)



The ornamental design for a combination ice chopper and scraper for windshields and the like, as shown.

170,461
ROTATABLE CHRISTMAS ORNAMENT
Werner A. Heinzel, Greenwood, Del.
Application April 20, 1953, Serial No. 24,578
Term of patent 14 years
(Cl. D29—1)



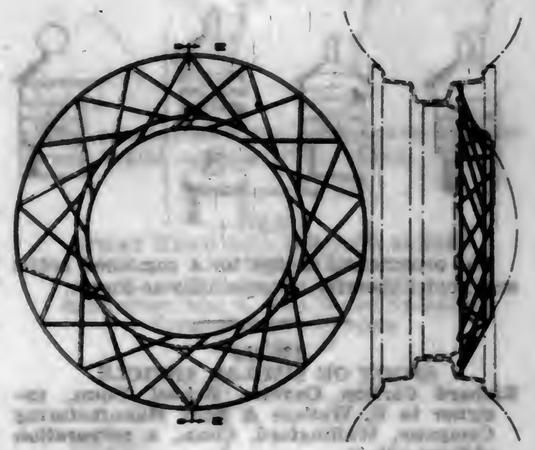
The ornamental design for a rotatable Christmas ornament, as shown and described.

170,462
DECANTER
Robert E. Hennessy, Summit, N. J., assignor to National Distillers Products Corporation, New York, N. Y.
Application April 6, 1953, Serial No. 24,264
Term of patent 14 years
(Cl. D58—7)



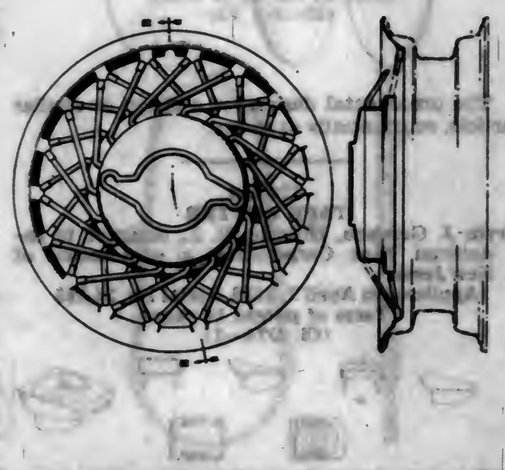
The ornamental design for a decanter, as shown.

170,463
WHEEL TRIM
Howard M. Jenkins, Jr., Detroit, Mich., assignor to Van Auken, Inc., Detroit, Mich., a corporation of Michigan
Application June 27, 1953, Serial No. 20,378
Term of patent 14 years



The ornamental design for a wheel trim, as shown and described.

170,464
WHEEL COVER
Howard M. Jenkins, Jr., Detroit, Mich., assignor to Van Auken, Inc., Detroit, Mich., a corporation of Michigan
Application November 21, 1952, Serial No. 22,296
Term of patent 14 years
(Cl. D14—20)



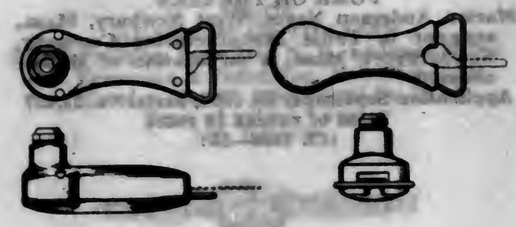
The ornamental design for a wheel cover as shown and described.

170,465
BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application March 4, 1953, Serial No. 23,908
Term of patent 7 years
(Cl. D45—4)



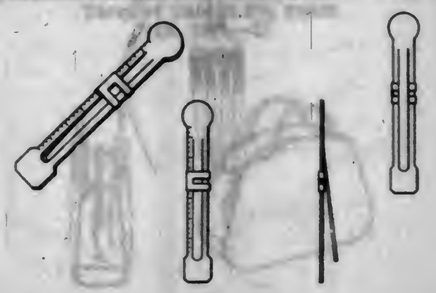
The ornamental design for a bracelet or the like, substantially as shown.

170,466
RECIPROCATING TOOL ATTACHMENT FOR A POWER TOOL UNIT
Thomas B. Keesling, Los Gatos, Calif.
Application April 25, 1952, Serial No. 19,469
Term of patent 14 years
(Cl. D54—13)



The ornamental design for a reciprocating tool attachment for a power tool unit, substantially as shown and described.

170,467
COMBINED BOOKMARKER AND LINE GUIDE
Fred J. Kremin, Richmond, Calif.
Application April 1, 1953, Serial No. 24,296
Term of patent 14 years
(Cl. D6—8)



The ornamental design for a combined bookmarker and line guide, as shown.

170,468
SOLDERING IRON BRUSH OR SIMILAR ARTICLE
Paul Le Bar, St. Hilaire, Quebec, Canada
Application March 6, 1953, Serial No. 23,941
In Canada January 14, 1953
Term of patent 7 years
(Cl. D8—2)



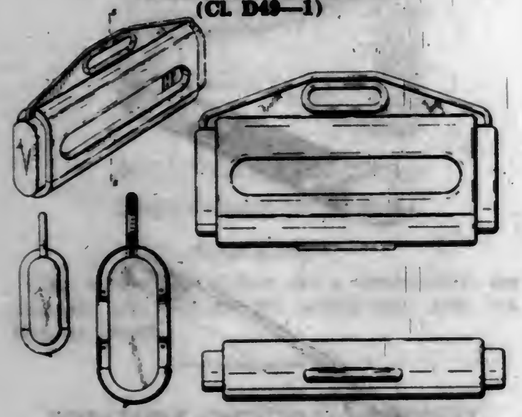
The ornamental design for a soldering iron brush or similar article, as shown.

170,469
PLASTIC FABRIC OR THE LIKE
Robert Charles Lewis, Westbury, N. Y., assignor to United Merchants and Manufacturers, Inc., New York, N. Y., a corporation of Delaware
Application November 20, 1952, Serial No. 22,388
Term of patent 14 years
(Cl. D67—3)



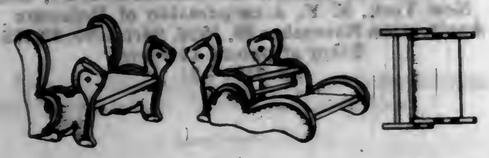
The ornamental design for a plastic fabric or the like, as shown and described.

170,470
CASING FOR A WRINGER
Arthur Joseph Lundy, Newtownards, Northern Ireland, assignor to Short Brothers & Harland Limited, Newtownards, Northern Ireland
Application October 15, 1952, Serial No. 21,835
In Great Britain August 25, 1952
Term of patent 14 years
(Cl. D49—1)



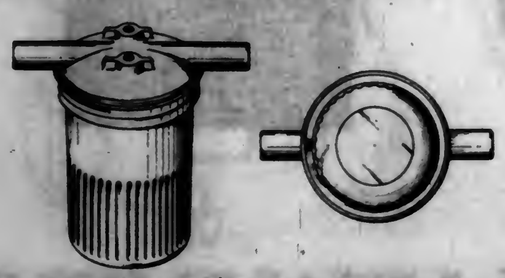
The ornamental design for a casing for a wringer, as shown.

170,471
CONVERTIBLE CHAIR AND STEP STOOL UNIT
Alice L. Meagher, Goodyear, Conn.
Application April 20, 1953, Serial No. 24,573
Term of patent 14 years
(Cl. D15—1)



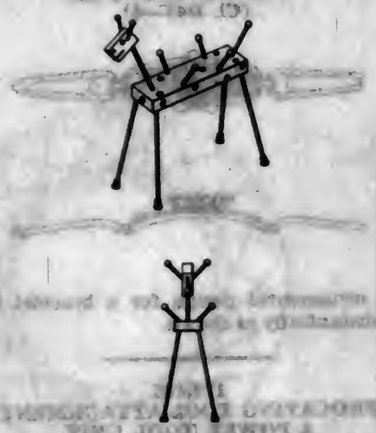
The ornamental design for a convertible chair and step stool unit, as shown.

170,472
WATER CONDITIONER AND FILTER UNIT
Nicholas Mennarrat, Seekonk, Mass., assignor to Fram Corporation, a corporation of Rhode Island
Application September 30, 1950, Serial No. 12,466
Term of patent 14 years
(Cl. D61—1)



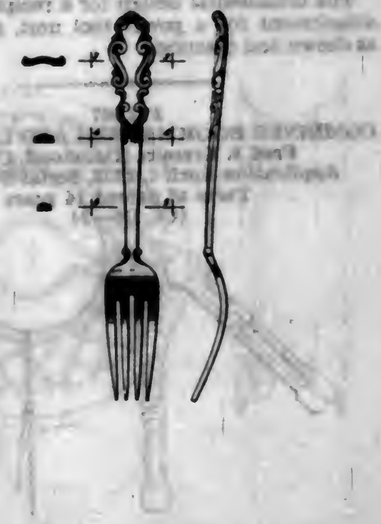
The ornamental design for a water conditioner and filter unit, as shown.

170,473
CLOTHESHORSE
Carl Allen Nelson, Whittier, Calif.
Application April 6, 1953, Serial No. 24,359
Term of patent 14 years
(Cl. D32—6)



The ornamental design for a clotheshorse, as shown.

170,474
FORK OR THE LIKE
Marion Anderson Noyes, West Newbury, Mass., assignor to Towle Manufacturing Company, Newburyport, Mass., a corporation of Massachusetts
Application September 12, 1952, Serial No. 21,437
Term of patent 14 years
(Cl. D54—12)



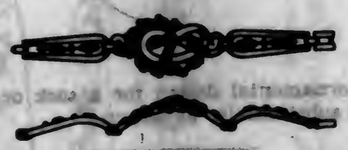
The ornamental design for a fork or the like, substantially as shown and described.

170,475
ILLUMINABLE CHRISTMAS PLAQUE
John Petry, New York, N. Y., assignor to Raylite Electric Corp., Bronx, N. Y., a corporation of New York
Application October 4, 1952, Serial No. 21,693
Term of patent 7 years
(Cl. D29—33)



The ornamental design for an illuminable Christmas plaque, as shown.

170,476
BRACELET OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 18, 1953, Serial No. 25,060
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet or the like, substantially as shown.

170,477
HANDBAG OR SIMILAR ARTICLE
Irving Pichel, New York, N. Y.
Application November 28, 1952, Serial No. 22,472
Term of patent 3½ years
(Cl. D67—3)



The ornamental design for a handbag or similar article, substantially as shown and described.

170,478
EXPANSIBLE LINK CHAIN FOR A BRACELET OR THE LIKE
Emil Rodriguez, New York, N. Y., assignor to Jacoby-Bender, Inc., New York, N. Y., a corporation of New York
Application November 22, 1952, Serial No. 22,411
Term of patent 7 years
(Cl. D45—4)



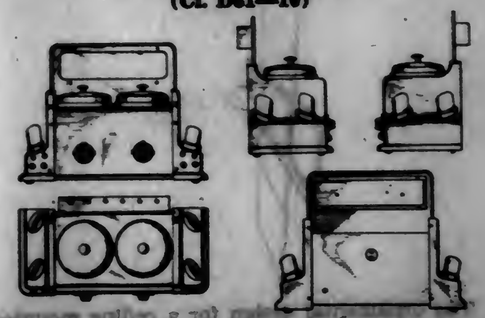
The ornamental design for an expansible link chain for a bracelet or the like, as shown and described.

170,479
TEXTILE FABRIC OR SIMILAR ARTICLE
Ben Rose, Highland Park, Ill.
Application October 14, 1952, Serial No. 21,826
Term of patent 7 years
(Cl. D62—1)



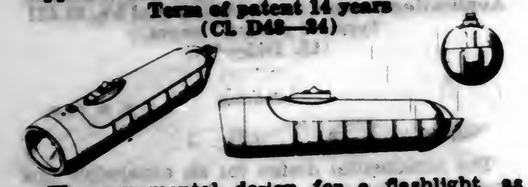
The ornamental design for a textile fabric or similar article, substantially as shown and described.

170,480
COMBINED FOOD WARMER AND BUN TOASTER
Irving Sachs, Brooklyn, N. Y.
Application November 10, 1952, Serial No. 22,267
Term of patent 14 years
(Cl. D61—10)



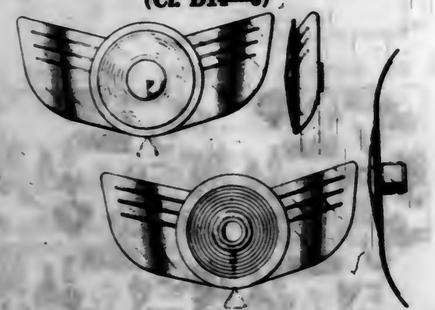
The ornamental design for a combined food warmer and bun toaster, substantially as shown.

170,481
FLASHLIGHT
Martin Schnur, Newark, N. J., assignor to Bright Star Battery Company, Clifton, N. J., a corporation of New Jersey
Application November 19, 1952, Serial No. 22,366
Term of patent 14 years
(Cl. D48—24)



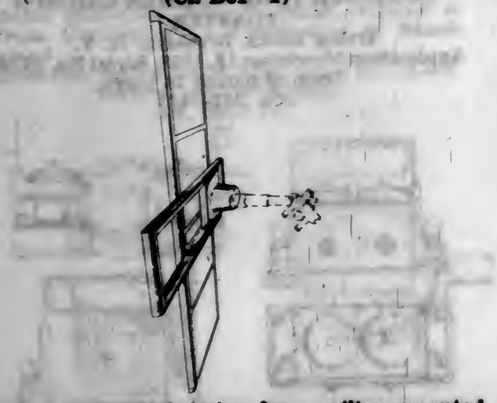
The ornamental design for a flashlight, as shown and described.

170,482
WIND DEFLECTOR FOR AN AUTOMOBILE
John Sinko, Oak Park, Ill., assignor to Sinko Mfg. & Tool Co., a corporation of Illinois
Application March 4, 1953, Serial No. 23,876
Term of patent 14 years
(Cl. D14—6)



The ornamental design for a wind deflector for an automobile, as shown and described.

170,483
CEILING MOUNTED HANGER FOR X-RAY TUBES
Robert J. Stava, Cleveland, Ohio, assignor to Picker X-Ray Corporation Waite Manufacturing Division, Inc., Cleveland, Ohio, a corporation of Ohio
Application March 23, 1953, Serial No. 24,150
Term of patent 7 years
(Cl. D61—1)



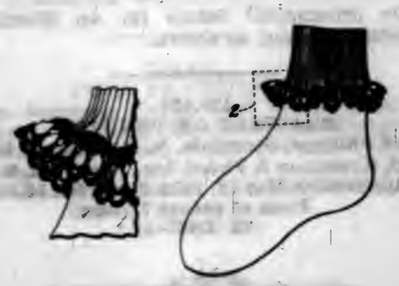
The ornamental design for a ceiling mounted hanger for X-ray tubes, as shown and described.

170,484
TEA BAG STRAINER
William F. Taylor, Philadelphia, Pa.
Application December 4, 1952, Serial No. 22,543
Term of patent 14 years
(Cl. D44—29)



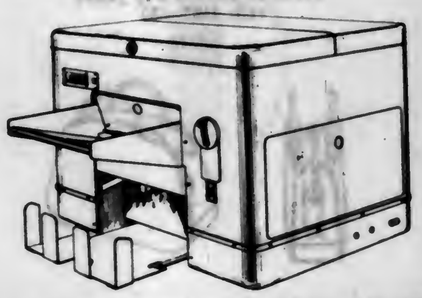
The ornamental design for a tea bag strainer, substantially as shown and described.

170,485
SOCK OR SIMILAR ARTICLE
John Francis Verreault, Valdese, N. C., assignor to Delly Hosiery Mills, Inc., Valdese, N. C., a corporation of North Carolina
Application May 12, 1953, Serial No. 24,979
Term of patent 14 years
(Cl. D47—7)

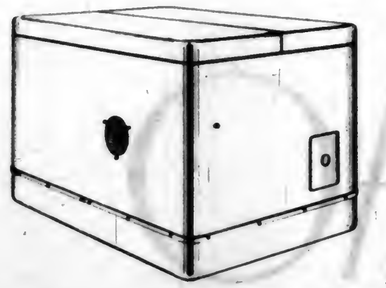


The ornamental design for a sock or similar article, substantially as shown.

170,486
DOCUMENT COPYING MACHINE
Earl E. White and George J. Smith, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application July 24, 1952, Serial No. 20,748
Term of patent 14 years
(Cl. D61—1)

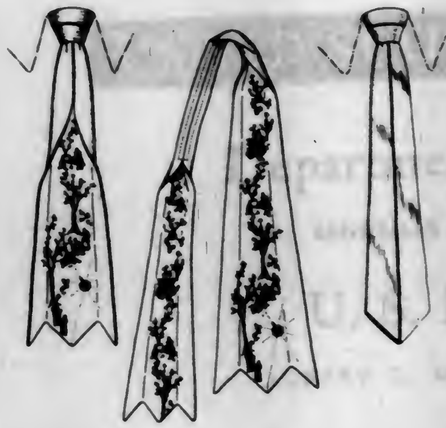


170,486—Continued



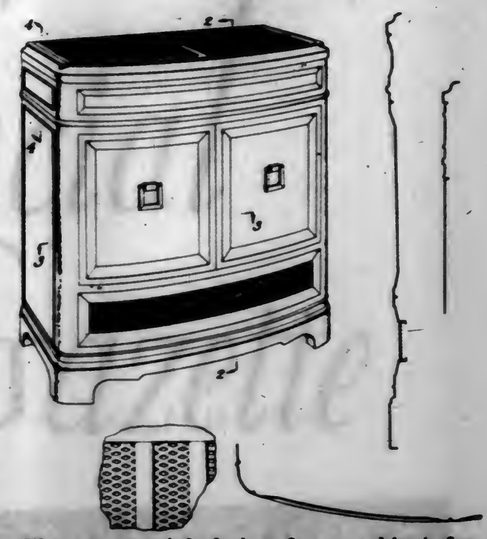
The ornamental design for a document copying machine, as shown.

170,487
NECKTIE
Lucilla de V. Whitman, New York, N. Y.
Application January 8, 1953, Serial No. 23,080
Term of patent 14 years
(Cl. D3—16)



The ornamental design for a necktie, as shown and described.

170,488
CABINET FOR A HEATER OR THE LIKE
Lawrence H. Wilson, Detroit, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application October 23, 1952, Serial No. 21,946
Term of patent 7 years
(Cl. D61—19)



The ornamental design for a cabinet for a heater or the like, substantially as shown and described.

170,489
SET OF CHESSMEN
Ernest N. Wright, Belmont, Mass.
Application March 9, 1953, Serial No. 23,943
Term of patent 7 years
(Cl. D34—5)



The ornamental design for a set of chessmen, as shown.

September 29, 1953 Volume 674 Number 5

Official Gazette

UNITED STATES PATENT OFFICE

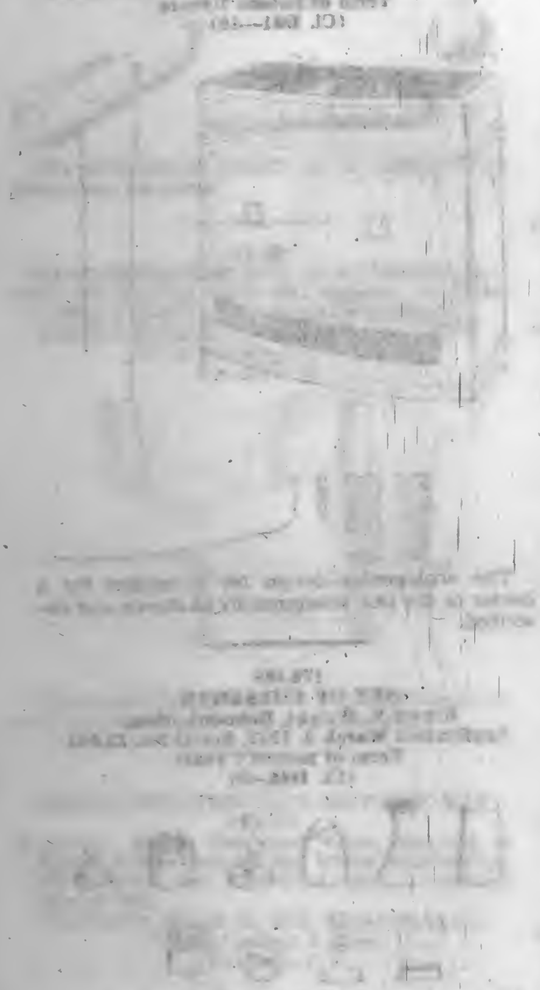
Department of Commerce

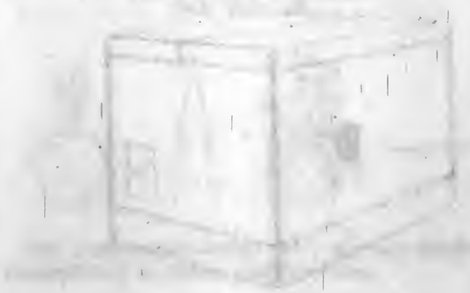
SINCLAIR WEEKS, *Secretary*

U. S. Patent Office

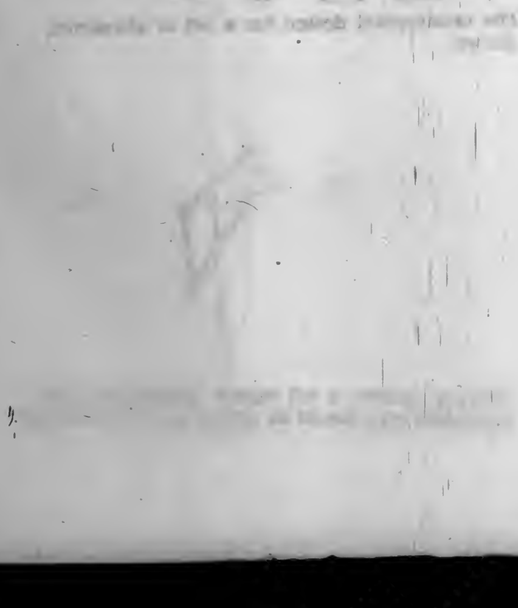
ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS











Condition of Applications Under Examination at Close of Business Sept. 11, 1953

Total number of patent applications awaiting action, 102,614. Date of oldest new application, November 6, 1952; date of oldest amended application, November 7, 1952.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) KEELY, J. E.			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	12-19-52	12-19-52	1288
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	12-17-52	12-10-52	1240
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	1-13-53	1-14-53	1894
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	12-26-52	12-24-52	1548
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	1-2-53	1-5-53	997
6. SURLE, H., Carbon Chemistry (part)	11-6-52	11-7-52	2780
7. GONSALVES, J. E., Optics; Photography (part)	12-22-52	12-22-52	1726
8. LEWIS, E. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	1-8-53	1-8-53	1572
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	12-24-52	12-22-52	1235
10. REYNOLDS, E. R. (NEFF, P. R., Acting), Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	1-14-53	1-12-53	1316
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clinching; Cutlery; Cleaning and Liquid Treatment of Solids.	12-27-52	12-22-52	1185
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	12-17-52	12-16-52	1266
13. BRALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Device, Manufacture or Repair.	12-6-52	12-2-52	1266
14. MANIAN, J. C., Fluid Pressure Brake; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	1-7-53	12-30-52	1478
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	12-5-52	12-4-52	1005
16. LOVEWELL, N. N., Television; Telephony; Recorders	12-11-52	12-8-52	1209
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	12-19-52	12-19-52	1517
18. KURZ, J. A., Power Plants; Speed Responsive Devices	1-7-53	12-24-52	726
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	12-5-52	12-5-52	1169
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	1-12-53	1-12-53	1267
21. MADER, R. C., Textiles	12-15-52	12-16-52	1404
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	12-27-52	12-30-52	1009
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	12-6-52	12-6-52	957
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machine; Textiles, Ironing or Smoothing	2-12-53	2-16-53	1600
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	12-4-52	12-4-52	1260
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	1-12-53	1-6-53	1009
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	12-26-52	12-26-52	1206
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	12-22-52	12-20-52	1163
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	12-12-52	12-11-52	1031
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	2-24-53	2-24-53	1300
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	12-10-52	12-11-52	2618
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	1-12-53	1-14-53	1202
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	12-11-52	12-15-52	1014
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	12-12-52	12-11-52	1206
35. BROMLEY, E. D., Dispensing; Filling and Closing Portable Receptacles	1-20-53	2-2-53	1204
36. McFADYEN, A. D., Measuring and Testing	12-16-52	12-17-52	1140
37. LEVY, M. L., Electricity-Switches, Welding, Heating	1-22-53	1-22-53	1004
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	1-12-53	1-9-53	1222
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	2-16-53	2-16-53	1612
40. DRUMMOND, E. J., Receptacles (part); Packages	4-1-53	4-1-53	896
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Baskets, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	1-12-53	1-9-53	1031

*Commissioner's Examiners' Division.

1000

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors.	12-11-52	12-11-52	2147
43. KNIGHT, W. G. (Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	12-5-52	12-6-52	1899
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	12-24-52	1-6-53	1376
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	12-5-52	12-5-52	1181
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	12-15-52	12-16-52	1669
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	12-10-52	12-4-52	2196
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	12-22-52	12-19-52	1480
50. BENGEL, W. G., Synthetic Resins; Rubber	3-10-53	3-9-53	1730
51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics.	1-2-53	1-2-53	1667
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	1-21-53	1-12-53	1990
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	1-8-53	1-15-53	1037
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	12-17-52	12-23-52	1819
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	1-2-53	12-17-52	1016
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	1-21-53	1-26-53	1322
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	1-12-53	1-5-53	1760
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	12-15-52	12-16-52	1411
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	1-8-53	1-7-53	1206
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	2-2-53	1-20-53	994
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	1-20-53	1-12-53	1180
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	12-9-52	12-12-52	2029
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	12-22-52	12-24-52	1723
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	1-6-53	1-7-53	827
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	12-31-52	1-16-53	1614
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	1-26-53	1-19-53	1486
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Illumination	12-30-52	12-26-52	1745
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	11-20-52	11-18-52	3636
DESIGNS: A—BREHM, G. L., Industrial Arts	4-29-53	5-12-53	1067
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	5-5-53	5-11-53	863

Number of new applications received week ending August 21, 1953

PATENTS 1,384 DESIGNS 84 REISSUES 7 TOTAL 1,475

Total number of trade-mark applications awaiting action (including renewals and republications), 10,998. Date of oldest new application, April 15, 1953; date of oldest amended application, April 13, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	4-15-53	4-15-53	2788
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	4-15-53	4-14-53	2774
Renewals (All Classes)	7-10-53	8-12-53	402
Republications (All Classes)	7-7-53	8-26-53	294
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	4-22-53	4-26-53	2378
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	4-15-53	4-13-53	2416

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Adams Co., The: *See*—
Adams, M. W., Company.

Adams, M. W., Company, doing business under the name of The Adams Co., Philadelphia, Pa. Medicinal preparation. Serial No. 643,805, Sept. 29. Class 18.

Adero Silk Inc., New York, N. Y. Woven and knitted cotton, silk, and rayon fabrics. Serial No. 614,916, Sept. 29. Class 42.

Adrian Designs for Men, Inc., New York, N. Y. Men's sportshirts. Serial No. 636,670, Sept. 29. Class 39.

Afco Sales Corporation, Jersey City, N. J. Medicinal chewing gum. Serial No. 624,670, Sept. 29. Class 18.

Albert Frank-Guenther Law Inc., New York, N. Y. House magazine. Serial No. 645,411, Sept. 29. Class 38.

Alfa Romeo Societa per Azioni, Milan, Italy. Car bodies, motor cars, motor cycles, etc. Serial Nos. 646,099–100, Sept. 29. Class 19.

American Apothecaries Company, Long Island City, N. Y. Multi-vitamin capsules. Serial No. 615,040, Sept. 29. Class 18.

American Biltrite Rubber Co. Inc., Chelsea, Mass. Shoe soles. Serial No. 644,589, Sept. 29. Class 39.

American Linen Supply Co., sometimes doing business as Steiner Sales Company, Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill. Cabinets. Serial No. 641,488, Sept. 29. Class 2.

American Linen Supply Co., sometimes doing business as Steiner Sales Company, Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill. Paper towels. Serial No. 642,337, Sept. 29. Class 37.

American Photocopy Equipment Company, Chicago, Ill. Printing and developing apparatus. Serial No. 612,986, Sept. 29. Class 26.

American Vitos Co. Inc., New York, N. Y. Knitted sweaters and berets. Serial No. 635,735, Sept. 29. Class 39.

Amfre Drug Co., Inc., New York, N. Y. Vaginal douche powder. Serial No. 644,092, Sept. 29. Class 18.

Andrews, O. B., Company, Chattanooga, Tenn. Paperboard shipping cases and folding cartons. Serial No. 635,672, Sept. 29. Class 2.

Archer Label Company: *See*—
Contact Products, Inc.

Aristocrat Leather Products, Inc., New York, N. Y. Wallets or billfolds and ladies' hand bags. Serial No. 605,084, Sept. 29. Class 3.

Armstrong Cork Company, Lancaster, Pa. Magazine. Serial No. 646,104, Sept. 29. Class 38.

Artzt, William W., New York, N. Y. T-shirts, vests, cardigans, etc. Serial No. 637,473, Sept. 29. Class 39.

B. B. Chemical Co., Boston, Mass. Patching material. Serial No. 622,766, Sept. 29. Class 5.

Barnes Drill Co., Rockford, Ill. Drilling and boring machines. Serial No. 632,586, Sept. 29. Class 23.

Barnes-Hind Laboratories, San Francisco, Calif. Vitamin preparation. Serial No. 623,497, Sept. 29. Class 18.

Battle Creek Dietetic Co., Battle Creek, Mich. Multiple vitamin capsules. Serial No. 633,958, Sept. 29. Class 18.

Battle Creek Dietetic Co., Battle Creek, Mich. Fortified multiple vitamins and minerals. Serial No. 633,959, Sept. 29. Class 18.

Baxter, Don, Inc., Glendale, Calif. Container dispenser for intravenous solutions, intravenus tubing, etc. Serial No. 620,572, Sept. 29. Class 44.

Baxter Laboratories, Inc., Morton Grove, Ill. Container dispenser for parenteral solutions, intravenous tubing, etc. Serial No. 620,585, Sept. 29. Class 44.

Beam, James B., Distilling Co., Chicago, Ill. Whiskey. Serial No. 632,587, Sept. 29. Class 49.

Beatty, Clarence A., San Francisco, Calif. Fried chicken and prepared meals. Serial No. 636,269, Sept. 29. Class 46.

Beckett, T. F., & Company (Fairlistytch) Limited, Glasgow and Ruchill, Glasgow, Scotland. Traycloths, trolley cloths, serviettes, etc. Serial No. 636,963, Sept. 29. Class 40.

Bell Brand Foods, Ltd., Vernon, Calif. Potato chips, deep-fried cheese-flavored cornmeal product, corn-chips, etc. Serial No. 604,139, Sept. 29. Class 46.

Bell Brand Foods, Ltd., Vernon, Calif. Potato chips, deep-fried cheese-flavored cornmeal product, corn chips, etc. Serial Nos. 604,140–1, Sept. 29. Class 46.

Beinap & Thompson, Inc., Chicago, Ill. Sales promotion of clients' goods or services, etc. Serial No. 644,715, Sept. 29. Class 101.

Bendix Aviation Corporation, Detroit, Mich. Vehicle brakes. Serial No. 618,725, Sept. 29. Class 19.

Bennett-Ireland, Inc., Norwich, N. Y. Metal forms for guiding the construction of internal details of fireplaces and to provide heating warm air circulating chambers. Serial No. 644,159, Sept. 29. Class 34.

Brevitt Shoes Limited, Leicester, England. Boots, shoes and slippers. Serial No. 633,237, Sept. 29. Class 39.

British Pens Limited, Smethwick, Birmingham, England. Pens and pencils. Serial No. 635,906, Sept. 29. Class 37.

Brown, Colonel L., New York, N. Y. Periodical. Serial No. 635,993, Sept. 29. Class 38.

Brunswick-Balke-Collender Company, The, Chicago, Ill. Periodical publication column. Serial No. 597,319, Sept. 29. Class 38.

Bullard Clark Company, The, Danielson, Conn. Loom supplies. Serial No. 609,534, Sept. 29. Class 23.

Burlington Mills Corporation, Greensboro, N. C. Fabrics. Serial No. 646,518, Sept. 29. Class 42.

Burlington County Shoe Corporation, Mount Holly, N. J. Shoes and slippers. Serial No. 607,155, Sept. 29. Class 39.

California Underwear Company, Inc., Dallas, Tex. Hosiery. Serial No. 632,465, Sept. 29. Class 39.

Callaway Products, Inc., New York, N. Y. Athletic clothing. Serial No. 644,218, Sept. 29. Class 39.

Cambridge Rubber Company, The, Cambridge, Mass., and Taneytown, Md. Shoes. Serial No. 627,926, Sept. 29. Class 39.

Carrollton Manufacturing Company, Carrollton, Ohio. Hand-operated food choppers. Serial No. 640,259, Sept. 29. Class 23.

Carter Products, Inc., New York, N. Y. Personal deodorant. Serial No. 640,192, Sept. 29. Class 51.

Carwan Woolen Corporation, New York, N. Y. Cashmere blankets. Serial No. 640,810, Sept. 29. Class 42.

Cavy, Alfonso, doing business as Alfonso Cavy & Co., Chicago, Ill. Frozen prepared food product. Serial No. 646,364, Sept. 29. Class 46.

Cavy, Alfonso, & Co.: *See*—
Cavy, Alfonso.

Chemical Pharmacal Company, Chicago, Ill. Medicinal preparation. Serial No. 643,645, Sept. 29. Class 18.

Chris-Cards: *See*—
Elm City Photo Co.

Cloth Laying Appliances Corp., Woodside, N. Y. Laying and spreading machines, pin bar tools, etc. Serial No. 504,032, Sept. 29. Class 23

Coats & Clark Inc.: *See*—
Coats, J. & P., Inc.

Coats, J. & P., Inc., Wilmington, Del., now by merger Coats & Clark Inc. Thread. Serial No. 630,989, Sept. 29. Class 43.

Comoy, H., & Co., Limited, London, England. Tobacco pipes. Serial No. 639,019, Sept. 29. Class 8.

Conklin Products Corporation, Los Angeles, Calif. Base holders. Serial No. 643,655, Sept. 29. Class 2.

Consolidated Commodities, Inc., New York, N. Y. Garment bags and shoe bags. Serial No. 619,252, Sept. 29. Class 2.

Contact Products, Inc., doing business as Archer Label Company, Pasadena, Calif. Printed labels. Serial No. 640,067, Sept. 29. Class 38.

Container Corporation of America, Chicago, Ill. Moisture resistant paperboard boxes and covers therefor. Serial No. 637,427, Sept. 29. Class 2.

Continental Can Company, Inc., assignee: *See*—
Shellmar Products Corporation.

Continental Sales & Sewing Machine Co.: *See*—
Schneider, Dorothy.

Coon, W. B., Company, Rochester, N. Y. Children's or juvenile shoes. Serial No. 642,019, Sept. 29. Class 39.

Czarev Milling Co., Independence, Mo. Granulated dog food. Serial No. 647,165, Sept. 29. Class 46.

Darmenindustrie H. Vaessen, Deventer, Netherlands. Phosphatic fat-binding agent. Serial No. 640,261, Sept. 29. Class 46.

Davis Bros. Fisheries Co. Inc., doing business as Magellan Company, Gloucester, Mass. Canned fish and packaged frozen fish. Serial No. 647,976, Sept. 29. Class 46.

Davis Specialties Incorporated, Chicago, Ill. Flexible hose. Serial No. 647,573, Sept. 29. Class 35.

Dell, Abraham, Los Angeles, Calif. Powder puffs. Serial No. 649,872, Sept. 29. Class 29.

Dell Publishing Company, Inc., New York, N. Y. Magazine. Serial No. 645,782, Sept. 29. Class 38.

Dempster Brothers, Inc., Knoxville, Tenn. Storage and transporting containers. Serial No. 622,015, Sept. 29. Class 2.

DoAll Company, The, Des Plaines, Ill. Machine tools, parts and attachments for the machine tools, etc. Serial No. 630,294, Sept. 29. Class 23.

Dr. Pepper Love Bottling Company, Bartlesville, Okla. Carbonated, nonalcoholic, noncereal, maltless beverages. Serial No. 634,185, Sept. 29. Class 45.

Dorian Handbags, New York, N. Y. Handbags. Serial No. 641,178, Sept. 29. Class 3.

Dowell Incorporated, Tulsa, Okla. Well treating services. Serial No. 638,639, Sept. 29. Class 103.

Drake Merchandising Company, Chicago, Ill. Periodical. Serial No. 644,020, Sept. 29. Class 38.

Dunelt Cycle Company Limited, Birmingham and Smethwick, Birmingham, England. Pedal cycles and motor cycles and parts of and nttings theretor. Serial No. 628,679, Sept. 29. Class 19.

Dyestuffs and Chemicals, Inc., doing business as The Dykem Company, St. Louis, Mo. Liquid coating for metal and through which the latter may be scribed. Serial No. 620,093, Sept. 29. Class 6.

Dykem Company, The: *See*—
Dyestuffs and Chemicals, Inc.

Elm City Photo Co., doing business as Chris-Cards, New Haven, Conn. Greeting cards. Serial No. 642,024, Sept. 29. Class 38.

Emeco Corporation, Hanover, Pa. Folding aluminum tables. Serial No. 644,164, Sept. 29. Class 32.

Engler, Ruth A., doing business as Ruth Ann Engler Candy Company, Phoenix, Ariz. Candy. Serial No. 641,773, Sept. 29. Class 46.

Engler, Ruth Ann, Candy Company: *See*—
Engler, Ruth A.

Ethcraft Chemical Company, Jacksonville, Fla. Medicine, produced and sold in both elixir and tablet form, which medicine is used as an antispasmodic and sedative. Serial No. 610,264, Sept. 29. Class 18.

F. A. I. Fabbrica Addizionatrice Italiana S. P. A., Milan, Italy. Adding machines, calculating machines, accounting machines. Serial No. 643,478, Sept. 29. Class 26.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Threads and yarns. Serial No. 635,824, Sept. 29. Class 43.

Farmcraft Feeds, Inc., Des Moines, Iowa. Mineral feed supplement. Serial No. 627,933, Sept. 29. Class 18.

Farm Journal, Inc., Philadelphia, Pa. Magazine section. Serial No. 645,405, Sept. 29. Class 38.

Federal Cartridge Corporation, Minneapolis, Minn. Shotgun shells, cartridges, and air rifle shot. Serial No. 638,198–9, Sept. 29. Class 9.

Flli De Cecco ul Filippo, Abruzzi, Italy. Alimentary pastes. Serial No. 632,364, Sept. 29. Class 46.

Foster-Milburn Co., Buffalo, N. Y. Medicated jelly. Serial No. 644,407, Sept. 29. Class 18.

Freeman, H., & Son, Inc., Philadelphia, Pa. Men's suits. Serial No. 635,645, Sept. 29. Class 39.

Friars of The Atonement, Inc., Garrison, N. Y. Mass card folders. Serial No. 616,852, Sept. 29. Class 35.

Gaudin, Olivier, Paris, France. Choleretic, azoturic, and anti-allergic product. Serial No. 581,765, Sept. 29. Class 18.

General Aniline & Film Corporation, New York and Binghampton, N. Y. Light-sensitive photographic paper. Serial No. 629,014, Sept. 29. Class 26.

General Shoe Corporation, Nashville, Tenn. Shoes. Serial No. 635,259, Sept. 29. Class 39.

Gladding, McBean & Co., Los Angeles, Calif. Refractory shapes and heat resisting formed clay bodies. Serial No. 615,978, Sept. 29. Class 12.

Gleitman's, Inc., Long Island City, N. Y. Hampers. Serial No. 644,171, Sept. 29. Class 2.

Gold Bond Stamp Company, Minneapolis, Minn. Promoting sales of clients' merchandise. Serial No. 641,720, Sept. 29. Class 101.

Good Publishing Company, Fort Worth, Tex. True story magazine. Serial No. 639,166, Sept. 29. Class 38.

Gould-National Batteries, Inc., St. Paul, Minn. Storage batteries. Serial No. 632,784, Sept. 29. Class 21.

Gracey, Lawrence B., Newport Beach, Calif. Magazines. Serial No. 644,840, Sept. 29. Class 38.

Gregory Fount-O-Ink Company, Los Angeles, Calif. Pen points and writing sets. Serial No. 630,650, Sept. 29. Class 37.

Gulf States Paper Corporation, Tuscaloosa, Ala. Wrapping paper and butcher's paper. Serial No. 603,231, Sept. 29. Class 37.

Hall Publishing Company, New York, N. Y. Column in a periodical trade publication. Serial No. 645,567, Sept. 29. Class 38.

Handy, H. L., Company: *See*—
Swift & Company.

Hanson-Van Winkle-Munning Company, Matawan, N. J. Polishing, buffing, cleaning, pickling, degreasing, and washing machines and parts thereof. Serial No. 635,832. Sept. 29. Class 23.

Harman, Edith, Springfield, Mo. Salad dressing. Serial No. 643,547, Sept. 29. Class 46.

Harris, Barrier, Inc., Indianapolis, Ind. Automobile barrier, and more particularly a barrier engageable with the wheels of an automobile. Serial No. 633,670, Sept. 29. Class 19.

Harris Raincoat Company, Incorporated, New York, N. Y. Water repellent hats and caps. Serial No. 645,245, Sept. 29. Class 39.

Hart Schaffner & Marx, Chicago, Ill. Men's and boys' articles of clothing. Serial No. 644,842, Sept. 29. Class 39.

Hatco Chemical Company, Township of Kearny, Hudson County, N. J. Plasticizers. Serial No. 643,682, Sept. 29. Class 6.

Heileman, G., Brewing Co., La Crosse, Wis. Beer. Serial No. 634,535, Sept. 29. Class 48.

Henniker Crutch Co., Inc., Warner, N. H. Furniture. Serial No. 631,864, Sept. 29. Class 32.

Hershey Chocolate Corporation, Hershey, Pa. Solid chocolate. Serial No. 623,544, Sept. 29. Class 46.

Heyden Chemical Corporation, New York, N. Y. Formaldehyde polymers. Serial Nos. 639,044–7, Sept. 29. Class 6.

Highway Trailer Company, Edgerton, Wis. Truck trailers. Serial Nos. 642,970–1, Sept. 29. Class 19.

Houghton, E. F., & Co., Philadelphia, Pa. Solvents. Serial No. 627,446, Sept. 29. Class 52.

Hydroponic Chemical Company, Inc., Copley, Ohio. Books and booklets. Serial No. 645,649, Sept. 29. Class 38.

Ilon Chemische Industrie G. m. b. H., Freiburg-Littenweiler, Germany. Pharmaceutical products (Breisgaw). Serial No. 638,118, Sept. 29. Class 18.

International Milling Company, Minneapolis, Minn. Wheat flour. Serial No. 649,306, Sept. 29. Class 46.

Jencraft Manufacturing Co., East Paterson, N. J. Venetian blinds. Serial No. 613,644, Sept. 29. Class 32.

Joseph Shoes Inc., Boston, Mass. Men's and women's shoes. Serial No. 620,559, Sept. 29. Class 39.

Kessler & Burg, Inc., Greenville, S. C. Blouses, skirts, slacks, etc. Serial No. 633,064, Sept. 29. Class 39.

Keystone Trailer & Equipment Co., Inc., Kansas City, Mo. Truck and trailer bodies. Serial No. 647,196, Sept. 29. Class 19.

Kroger Co., The, Cincinnati, Ohio. Paper cleansing tissue and toilet tissue, paper napkins and towels. Serial No. 644,619, Sept. 29. Class 37.

Kroger Co., The, Cincinnati, Ohio. Apricot preserves, strawberry preserves, olives, salad olives, etc. Serial No. 646,556, Sept. 29. Class 46.

Kroll, Ervin E., McMinnville, Oreg. Inclinometers. Serial No. 645,323, Sept. 29. Class 26.

Kuhn, Hermann, Zurich, Switzerland. Mechanical pencils and pencil-leads. Serial No. 635,701, Sept. 29. Class 37.

Lafayette Pharmacal Inc., Lafayette, Ind. Gall bladder stimulant. Serial No. 618,047, Sept. 29. Class 18.

Larsen Company, The, Green Bay, Wis. Canned mixed vegetables. Serial No. 635,366, Sept. 29. Class 46.

Leeds Associates Inc., New York, N. Y. Woolen fabrics. Serial Nos. 645,903–4, Sept. 29. Class 42.

Libby, Louis L., Food Products, Inc., Long Island City, N. Y. Frozen precooked French fried codfish, frozen precooked French fried scallops, etc. Serial No. 619,140, Sept. 29. Class 46.

Liberty Belles Incorporated, The, New York, N. Y. Establishment and maintenance of membership in a national patriotic organization and furthering the ideals thereof. Serial No. 640,746, Sept. 29. Class 100.

Lifetime Living, Inc., New York, N. Y. Periodical magazine. Serial No. 644,424, Sept. 29. Class 38.

Little, Brown and Company (Inc.), Boston, Mass. Books. Serial No. 630,426, Sept. 29. Class 38.

Little, Brown and Company (Inc.), Boston, Mass. Books. Serial No. 630,429, Sept. 29. Class 38.

Lord, Phillips H., Inc., New York, N. Y. Entertainment through the media of an integrated series of dramatic radio and television programs. Serial No. 608,118, Sept. 29. Class 107.

Lorraine Manufacturing Company, Pawtucket, R. I., and New York, N. Y. Wool and worsted piece goods. Serial Nos. 646,558–61, Sept. 29. Class 42.

MacPhee, Angus, Vancouver, British Columbia, Canada. Playing card game. Serial No. 645,329, Sept. 29. Class 22.

Magellan Company: *See*—
Davis Bros. Fisheries Co. Inc.

Majestic Metal Specialties, Inc., Moosup, Conn. Lady's unfilled compact. Serial No. 644,427, Sept. 29. Class 2.

Marathon Corporation, Menasha, Wis. Trays. Serial No. 631,878, Sept. 29. Class 2.

Marathon Corporation, Rothschild, Wis. Paper cartons. Serial No. 629,577, Sept. 29. Class 2.

Marlboro Shirt Company, Inc., Baltimore, Md., Men's and boys' dress and sport shirts. Serial No. 634,907, Sept. 29. Class 39.

Marlin Firearms Company, The, New Haven, Conn. Rifles and parts thereof. Serial No. 644,429, Sept. 29. Class 9.

McMillen-Stanley Sales Corporation, San Francisco, Calif. Services comprising selling for others various goods as agent. Serial No. 638,594, Sept. 29. Class 101.

Mead Johnson & Company, Evansville, Ind. Fructose. Serial No. 642,829, Sept. 29. Class 18.

Mead Johnson & Company, Evansville, Ind. Pharmaceutical preparations. Serial Nos. 645,494–5, Sept. 29. Class 18.

Metalastik Limited, Leicester, England. Anti-vibration and shock absorbing mountings and supports for machines, etc. Serial No. 608,321, Sept. 29. Class 23.

Meyerhans & Cie. A. G., Mühle Weinfelden, Weinfelden, Switzerland. Vegetable products in the form of flakes semolina, flour and powder, etc., for use as a stock-thickening, sizing, finishing, etc. agent. Serial No. 625,019, Sept. 29. Class 6.

Miami Margarine Company, The, Cincinnati, Ohio. Vegetable shortening. Serial No. 629,310, Sept. 29. Class 46.

Miller, E. S., Laboratories, Inc., Los Angeles, Calif. Antipyretic and mild analgesic. Serial No. 644,332, Sept. 29. Class 18.

Milwaukee Lace Paper Company, Milwaukee, Wis. Paper doilies and place mats. Serial No. 644,242, Sept. 29. Class 37.

Minnesota Rubber and Gasket Co., St. Louis Park, Minn. Seal rings. Serial No. 644,562, Sept. 29. Class 35.

Monsanto Chemical Company, St. Louis, Mo. Fertilizer. Serial No. 645,501, Sept. 29. Class 10.

Monsanto Chemical Company, St. Louis, Mo. Fertilizer. Serial No. 645,505, Sept. 29. Class 10.

Mountain City Packing Company: *See*—
Neville, E. J.

National Association for Mental Health, Inc., The, New York, N. Y. Services relating to the improvement of mental health. Serial No. 640,352, Sept. 29. Class 100.

Neville, E. J., doing business as Mountain City Packing Company, Cairo, Ill. Apple cider. Serial No. 642,452, Sept. 29. Class 45.

New York Rubber Corporation, New York, N. Y. Inflatable mattresses, cushions, and pillows. Serial Nos. 632,310–11, Sept. 29. Class 32.

Ostrander, Richard G., Yonkers, N. Y. Safety belts. Serial No. 645,661, Sept. 29. Class 40.

Padbloc Company, Inc., The, Wichita, Kans. Shipping crates and boxes. Serial No. 637,546, Sept. 29. Class 2.

Pettibone Mulliken Corporation, Chicago, Ill. Portable machines. Serial No. 638,012, Sept. 29. Class 23.

Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Antibiotic derivative. Serial No. 642,899, Sept. 29. Class 18.

Phillippe, Louis, Ridgewood, N. J. Medicated preparation. Serial No. 642,566, Sept. 29. Class 18.

Pitegoff Brothers, Inc., Brooklyn, N. Y. Paint brushes, wall brushes, stucco brushes. Serial No. 625,625, Sept. 29. Class 29.

Plabag Aktiengesellschaft Für Plastik-Industrie, Romanshorn and Zurich, Switzerland. Threads and yarns. Serial No. 636,178, Sept. 29. Class 43.

Plant Protection Limited, Yalding, Kent, England. Fungicides, fumigants, etc. Serial No. 620,231, Sept. 29. Class 6.

Plastic Woven Products, Inc., Paterson, N. J. Plastic webbing. Serial No. 646,164, Sept. 29. Class 42.

Popper Morson Company, New York, N. Y., and Jersey City, N. J. Liqueur. Serial No. 641,967, Sept. 29. Class 49.

Preston, Lena T. A., doing business as The Teverbaugh Manufacturing Company, Chicago, Ill. Hair-pressing oil. Serial No. 637,462, Sept. 29. Class 51.

Procon Incorporated, Chicago, Ill. Constructing, altering and repairing oil and chemical processing plants. Serial No. 634,803, Sept. 29. Class 103.

Prosser, Thomas W., Riverside, Calif. Soil moisture indicators. Serial No. 643,712, Sept. 29. Class 26.

Purepac Corporation, New York, N. Y. Medicated skin cream. Serial No. 643,790, Sept. 29. Class 18.

Radiohio, Incorporated, Columbus, Ohio. Radio program broadcasting service. Serial No. 634,859, Sept. 29. Class 104.

Raynal Cycle Company Limited, The, Birmingham and Handsworth, Birmingham, England. Pedal cycles and motor cycles and parts of and fittings therefor. Serial No. 628,717, Sept. 29. Class 19.

Rich Industries, Inc., Clinton, Iowa. Infants' furniture. Serial No. 626,218, Sept. 29. Class 32.

Ronzoni Macaroni Co., Inc., Long Island City, N. Y. Macaroni. Serial No. 639,780, Sept. 29. Class 46.

Royalty Development Corp., Milwaukee, Wis. Mineral oil for medicinal use. Serial No. 627,149, Sept. 29. Class 18.

Rubinstein, Helena, Inc., New York, N. Y. Face lotion and body lotion. Serial No. 614,631, Sept. 29. Class 51.

Schneider, Dorothy, doing business as Continental Sales & Sewing Machine Co., Brooklyn, N. Y. Electric sewing machines. Serial No. 645,192, Sept. 29. Class 23.

Schwartz Candies Inc., New York, N. Y. Candy. Serial No. 645,264, Sept. 29. Class 46.

Searle, G. D., & Co., Skokie, Ill. Pharmaceutical. Serial No. 643,560, Sept. 29.

Shellmar Products Corporation, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Merchandise bags. Serial No. 604,992, Sept. 29. Class 2.

Simplo Research and Mfg. Co., Inc., New York, N. Y. Motorized card filing apparatus. Serial No. 616,877, Sept. 29. Class 23.

Simplicity Pattern Co., Inc., New York, N. Y. Magazines. Serial No. 645,736, Sept. 29. Class 38.

Simpson Logging Company, Seattle, Wash. Hardboard, insulation board, and acoustical tile. Serial No. 641,524, Sept. 29. Class 12.

Smart Maid Coat & Suit Corp., New York, N. Y. Girls' and misses' and women's coats. Serial No. 645,012, Sept. 29. Class 39.

Smith, Kline & French Laboratories, Philadelphia, Pa. Sedative preparation. Serial No. 644,197, Sept. 29. Class 18.

Southwest Airways Company, San Francisco and South San Francisco Calif. Transportation of cargo and passengers by aircraft. Serial No. 641,216, Sept. 29. Class 105.

Squirrel Brand Company, Cambridge, Mass. Caramel-like candy. Serial No. 635,440, Sept. 29. Class 46.

Steiner Sales Company, Division of American Linen Supply Co.: *See*—
American Linen Supply Co.

Sternberg, Norman, Newark, N. J. Life insurance bulletins. Serial No. 623,904, Sept. 29. Class 38.

Stroh Brewery Company, The, Detroit, Mich. Beer. Serial No. 641,871, Sept. 29. Class 48.

Sun Oil Company, Philadelphia, Pa. Lubricating oils. Serial No. 647,563, Sept. 29. Class 15.

Swift & Company, Chicago, Ill., doing business as H. L. Handy Company, Springfield, Mass. Smoked ham, bacon, frankfurts, etc. Serial No. 647,242, Sept. 29. Class 46.

Sykes Chemical Co.: *See*—
Sykes, Ralph J.

Sykes, Ralph J., doing business as Sykes Chemical Co., Greensboro, N. C. Preparation for treatment of head colds, chest colds, etc. Serial No. 624,247, Sept. 29. Class 18.

Taylor, Brooks, Chicago, Ill. Columns and articles in newspapers, magazines, and pamphlets. Serial No. 645,440, Sept. 29. Class 38.

Taylor, Wm. A., Ltd., New York, N. Y. Men's neckties and lounging beach and bath robes, scarves, etc. Serial No. 640,019, Sept. 29. Class 39.

Terminal Metal Products Corporation, Brooklyn, N. Y. Hand trucks. Serial No. 647,666, Sept. 29. Class 19.

Teverbaugh Manufacturing Company, The: *See*—
Preston, Lena T. A.

Thrifty Stamp Co., Milwaukee, Wis. Merchandising service. Serial No. 639,794, Sept. 29. Class 101.

Tobler, Ernest & Traber, Inc., New York N. Y. Woven fabrics. Serial Nos. 641,479–81, Sept. 29. Class 42.

Trans-Art Incorporated, New York, N. Y., and Chicago, Ill. Letters, symbols, marks, etc. Serial No. 637,198, Sept. 29. Class 38.

Tribune Company, Chicago, Ill. Title for a newspaper column. Serial No. 645,517, Sept. 29. Class 38.

Ultra Chemical Works, Inc., Paterson, N. J. Sulfonic acid. Serial No. 642,324, Sept. 29. Class 6.

United Aircraft Corporation, East Hartford, Conn., and Dallas, Tex. Airplanes and parts thereof. Serial No. 637,516, Sept. 29. Class 19.

United States Steel Corporation, Pittsburgh, Pa. Vehicle ax'es and railway wheels. Serial No. 647,960, Sept. 29. Class 19.

Van Slyke & Company, Inc., San Francisco, Calif. Pharmaceutical preparation. Serial No. 628,971, Sept. 29. Class 18.

Victory Plastics Co., Hudson, Mass. Plastic kitchen appliances. Serial No. 635,797, Sept. 29. Class 2.

Wallace & Tiernan Company, Inc.: *See*—
Wallace & Tiernan Co. Inc.

Wallace & Tiernan Co. Inc., Belleville, N. J., now by merger and change of name Wallace & Tiernan Company, Inc. Compact apparatus comprising pumping and driving means. Serial No. 612,427, Sept. 29. Class 23.

Weil & Huebener, Washington, D. C. Microscopes. Serial No. 645,277, Sept. 29. Class 26.

Williams, Gladys R., New York, N. Y. Fabrics. Serial No. 643,131, Sept. 29. Class 42.

Winsted Edge Tool Works, The, Winsted, Conn. Chisels, gouges and drawing knives. Serial No. 627,853, Sept. 29. Class 23.

Winthrop-Stearns Inc., New York, N. Y. Local and regional anesthetic. Serial No. 636,321, Sept. 29. Class 18.

World Wool Guide Incorporated, Philadelphia, Pa. Publication. Serial No. 644,366, Sept. 29. Class 38.

Y-Z Laboratories, Wilmington, N. C. Medicinal preparation. Serial No. 644,481, Sept. 29. Class 18.

Zellerbach Paper Company, San Francisco, Calif. Coated paper. Serial No. 644,484, Sept. 29. Class 37.

LIST OF REGISTRANTS OF TRADE-MARKS

A P Parts Corporation, The, Toledo, Ohio. Solid lubricant. 580,557, Sept. 29; Serial No. 634,956, published June 23, 1953. Class 15.

Abbott Laboratories, North Chicago, Ill. Anti-heparin compound. 580,571, Sept. 29; Serial No. 636,759, published June 23, 1953. Class 18.

Abesca Chemical Works, Brooklyn, N. Y. Hand cleaning cream. 580,499, Sept. 29; Serial No. 626,295, published June 23, 1953. Class 52.

Abraham & Straus, Inc., New York, to Federated Department Stores, Inc., Brooklyn, N. Y. Ice cream, frappes, stuffed dates, figs, etc. 308,060, renewed Nov. 21, 1953. O. G. Sept. 29, Class 46.

Abrasive Tools Limited, London, England. Files. 580,463, Sept. 29; Serial No. 616,580, published Mar. 31, 1953. Class 23.

Acme Venetian Blind Mfg. Co., Inc., Chicago, Ill. Venetian blinds. 580,422, Sept. 29; Serial No. 586,612, published June 30, 1953. Class 32.

Acra Instruments: *See*—
Pacific Universal Products Corporation.
Adamopoulos, Peter, Haverhill, Mass. Ointment. 436,985, Mar. 2, 1948. Republished Sept. 29. Class 18.
Allen, J. Roy.: *See*—
Stoppers, Inc.
American Machine and Metals, Inc., New York, N. Y. Laundry machinery. 580,511, Sept. 29; Serial No. 627,660, published June 30, 1953. Class 24.
Angier Chemical Company, assignor, by mesne assignments, to Angier Chemical Co., Inc., Boston, Mass. Medical preparations, emulsion of refined petroleum used as a mild laxative, etc. 580,424, Sept. 29; Serial No. 591,762, published June 30, 1953. Class 18.
Angier Chemical Co., Inc., assignee: *See*—
Angier Chemical Company.
Ardalt Inc., New York, N. Y. Figurines and statuettes. 580,488, Sept. 29; Serial No. 624,006, published June 30, 1953. Class 50.
Arkay Junior Frocks, Inc., New York, N. Y. Women's and misses' dresses, petticoats, underwear, etc. 580,572, Sept. 29; Serial No. 636,871, published June 30, 1953. Class 39.
Arkwright, Incorporated, New York, N. Y. Hand soap, face soap, toilet soap, etc. 580,441, Sept. 29; Serial No. 609,839, published June 23, 1953. Class 52.
Arliss, Charles, doing business as Premier Plastics Company, Brooklyn, N. Y. Toy cradles. 580,632, Sept. 29; Serial No. 627,731. Class 22.
Austin, Nichols & Co., Incorporated, Brooklyn, N. Y. Whiskey. 580,574, Sept. 29; Serial No. 636,916, published June 30, 1953. Class 49.
Ayerst, McKenna & Harrison Limited, New York, N. Y. Inhaler for use with anesthetics. 580,539, Sept. 29; Serial No. 632,284, published June 30, 1953. Class 44.
Baldwin Belting, Inc., New York, N. Y. Leather belting. 580,637, Sept. 29; Serial No. 631,038. Class 35.
Baltimore Luggage Company, The, Baltimore, Md. Luggage. 580,493, Sept. 29; Serial No. 624,992, published June 30, 1953. Class 3.
Barbasol Company, The, Indianapolis, Ind. Safety razors and blades. 304,988, renewed July 25, 1953. O. G. Sept. 29. Class 23.
Barbasol Company, The, Indianapolis, Ind. Safety razors and blades. 306,904, renewed Oct. 3, 1953. O. G. Sept. 29. Class 23.
Barnes, S. O., & Son, Inc., Gardena, Calif. Vitamin and mineral tablets. 580,508, Sept. 29; Serial No. 627,314, published June 23, 1953. Class 18.
Barwick, E. T., Mills: *See*—
Barwick, Eugene T.
Barwick, Eugene T., doing business as E. T. Barwick Mills, Chamblee, Ga. Tufted pile carpeting. 580,614, Sept. 29; Serial No. 641,265, published June 30, 1953. Class 42.
Baxter, Don., Inc., Glendale, Calif. Apparatus for use in the transfusion of blood, etc. 580,474, Sept. 29; Serial No. 620,564, published June 30, 1953. Class 44.
Baxter Laboratories, Inc., Morton Grove, Ill. Closure-equipped bottles for use in the transfusion of blood, etc. 580,475, Sept. 29; Serial No. 620,576, published June 30, 1953. Class 44.
Behr-Manning Corporation, Troy, N. Y. Flexible and inflexible abrasives. 580,524, Sept. 29; Serial No. 629,418, published June 23, 1953. Class 4.
Benmore Distilleries Limited, Glasgow, Scotland. Scotch whisky. 580,545, Sept. 29; Serial No. 633,295, published June 16, 1953. Class 49.
Bermingham & Prosser Company, Chicago, Ill. Book and printing papers. 209,179, Feb. 16, 1926. Republished Sept. 29. Class 37.
Bermingham & Prosser Co., Chicago, Ill. Poster paper and construction paper. 383,786, Dec. 24, 1940. Republished Sept. 29. Class 37.
Bernard Pharmacal Co., Inc., New York, N. Y. Multiple vitamin preparation. 580,625, Sept. 29; Serial No. 610,613. Class 18.
Bischoff, Ernst, Co., Inc.: *See*—
Bischoff, Ernst, Co., Incorporated.
Bischoff, Ernst, Co., Incorporated, sometimes called Ernst Bischoff Co., Inc., and Ernst Bischoff Company, Inc., Ivoryton, Conn. Medicine or pharmaceutical preparation. 580,578, Sept. 29; Serial No. 637,032, published June 30, 1953. Class 18.
Bischoff, Ernst, Company, Inc.: *See*—
Bischoff, Ernst, Co., Incorporated.
Blake Manufacturing Co., Springfield, by Blake Manufacturing Corporation, Clinton, Mass. Flash lights. 250,797, Dec. 18, 1928. Republished Sept. 29. Class 21.
Blake Manufacturing Corporation: *See*—
Blake Manufacturing Co.
Blaustein, Lew S., Rockville Centre, N. Y. Dresses. 580,606, Sept. 29; Serial No. 640,098, published June 30, 1953. Class 39.
Block & Anderson Limited, London, England. Hectographic carbon paper. 580,505, Sept. 29; Serial No. 626,973, published June 30, 1953. Class 11.
Bode Drug Company, Inc., New Brunswick, N. J., to Vick Chemical Company, New York, N. Y. Toilet preparations. 305,445, renewed Aug. 15, 1953. O. G. Sept. 29. Class 51.
Bonwit Teller, Inc., New York, N. Y. Corsets, gloves, pajamas, etc. 580,575, Sept. 29; Serial No. 636,920, published June 30, 1953. Class 39.
Botany Worsted Mills, Passaic, N. J. Woolen piece goods. 346,900, June 8, 1937. Amended. O. G. Sept. 29. Class 42.
Bowes Industries, Inc., Chicago, Ill. Paper plates. 580,627, Sept. 29; Serial No. 614,812. Class 2.
Brainerd Bait Co., St. Paul, Minn. Artificial bait. 580,548, Sept. 29; Serial No. 633,529, published June 30, 1953. Class 22.
Brillo Manufacturing Company, Inc., Brooklyn, N. Y. Soap pads. 580,640–1, Sept. 29; Serial Nos. 640,835–6. Class 4.
Brillo Manufacturing Company, Inc., Brooklyn, N. Y. Cleanser. 580,642, Sept. 29; Serial No. 640,838. Class 4.
Bristol Laboratories Inc., New York and Syracuse, N. Y. Antibiotic derivative. 580,500–1, Sept. 29; Serial No. 626,300–1, published June 23, 1953. Class 18.
British-American Carbon Corporation, New York, N. Y., now by change of name Delanium Carbon Corporation. Tile. 580,473, Sept. 29; Serial No. 620,087, published Dec. 2, 1952. Class 12.
British-American Carbon Corporation, New York, N. Y., now by change of name Delanium Carbon Corporation. Tile. 580,477, Sept. 29; Serial No. 621,051, published Dec. 2, 1952. Class 12.
Bronco Rubber Products Co., Los Angeles, Calif. Industrial wheels. 580,462, Sept. 29; Serial No. 616,199, published June 30, 1953. Class 19.
Brooks, Inc., Homestead, Fla. Fresh limes, avocados and mangos. 580,587, Sept. 29; Serial No. 637,476, published June 2, 1953. Class 46.
Brooks, Inc., Homestead, Fla. Fresh limes, avocados and mangos. 580,588, Sept. 29; Serial No. 637,477, published May 26, 1953. Class 46.
Brown, Morton, New York, N. Y. Ladies' and misses' slips. 580,615, Sept. 29; Serial No. 641,709, published June 30, 1953. Class 39.
Bryn-Halden & Nitedals Taendstikfabrik A/S: *See*—
Nitedals Taendstikfabrik.
Builders' Iron Foundry, Providence, R. I. Electric flow meters and pressure or rate of flow controllers and telemeters. 306,069, renewed Sept. 5, 1953. O. G. Sept. 29. Class 26.
Bulkley, Dunton Pulp Company, Inc., New York, N. Y. Unitary equipment consisting of flocculent storage tanks, retention tanks, etc. 580,455, Sept. 29; Serial No. 614,131, published Mar. 10, 1953. Class 23.
Burgess and Why Corporation, Philadelphia, Pa. Folding paper boxes. 580,634, Sept. 29; Serial No. 628,189. Class 2.
Burk Brothers, Philadelphia, Pa. Calf, kid, and goat skins. 92,630, re-renewed July 22, 1953. O. G. Sept. 29. Class 1.
Camp, Wm. A., Co., Inc., New York, N. Y. Nuts. 533,014, Nov. 7, 1950. Amended. O. G. Sept. 29. Class 46.
Capital Industries, Inc., Portland, Oreg. Vehicle mounted hydraulically operated extensible and adjustable telescopic mast. 580,503, Sept. 29; Serial No. 626,650, published June 9, 1953. Class 23.
Capital City Products Company, The, Columbus, Ohio. Cheese, Thousand Island dressing, mayonnaise, etc. 306,629, Dec. 12, 1933. Amended. O. G. Sept. 29. Class 46.
Carey, Philip, Manufacturing Company, The, Lockland, Cincinnati, Ohio. Sound deadening sheet material. 580,643, Sept. 29; Serial No. 641,496. Class 12.
Carlo Erba S. P. A., Milan, Italy. Antitubercular compositions. 580,579, Sept. 29; Serial No. 637,033, published June 30, 1953. Class 18.
Carroll, P. J., & Co., Limited, Dundalk, Ireland, and Liverpool, England. Manufactured tobacco. 580,519, Sept. 29; Serial No. 629,087, published June 30, 1953. Class 17.
Carson, Henry, Flushing, N. Y. Insecticides and household deodorants. 580,521, Sept. 29; Serial No. 629,284, published June 16, 1953. Class 6.
Character Novelty Co., South Norwalk, Conn. Stuffed toys. 580,616, Sept. 29; Serial No. 641,831, published June 30, 1953. Class 22.
Chef-Way, Inc., Kansas City, Mo. Coin controlled, electrically operated vending machines. 580,429, Sept. 29; Serial No. 603,662, published Feb. 24, 1953. Class 23.
Chef-Way, Inc., Kansas City, Mo. Coin controlled, electrically operated vending machines. 580,430, Sept. 29; Serial No. 603,664, published Feb. 24, 1953. Class 23.
Chemalloy Foundry Company, Louisiana, Mo. Aluminum-alloy castings. 580,461, Sept. 29; Serial No. 615,869, published June 30, 1953. Class 14.
Chicago Pharmacal Company, Chicago, Ill. Medicinal preparation. 580,568, Sept. 29; Serial No. 636,687, published June 30, 1953. Class 18.
Chicago Pharmacal Company, Chicago, Ill. Medicinal preparation. 580,576, Sept. 29; Serial No. 636,922, published June 23, 1953. Class 18.
Chicago Vitreous Enamel Product Co., Cicero, Ill. Pigmented fused glass-like ceramic composition. 580,560, Sept. 29; Serial No. 635,521, published June 30, 1953. Class 1.
Childs Company, Long Island City, N. Y., assignor to Chunk-E-Nut Products Company of Philadelphia, Inc., Philadelphia, Pa. Candy. 580,435–7, Sept. 29; Serial Nos. 607,162–4, published Nov. 6, 1951. Class 46.
Chunk-E-Nut Products Company of Philadelphia, Inc., assignee: *See*—
Childs Company.

Clairol Incorporated, Stamford, Conn. Hair tinting and coloring preparations. 580,552, Sept. 29; Serial No. 634,237, published June 23, 1953. Class 51.
College Inn Food Products Company, Chicago, Ill. Gin, anisette, and brandy. 580,458, Sept. 29; Serial No. 615,158, published June 16, 1953. Class 49.
Colorado Milling & Elevator Co., The, Denver, doing business as The Monte Vista Flour Mills Co., Monte Vista, Colo. Wheat flour. 580,413, Sept. 29; Serial No. 557,604, published June 30, 1953. Class 46.
Comet Envelope & Paper Co., Inc., New York, N. Y. Paper bags. 580,630, Sept. 29; Serial No. 622,708. Class 2.
Condu-Block Company, Seattle, Wash. Concrete blocks. 580,512, Sept. 29; Serial No. 627,676, published June 23, 1953. Class 12.
Connolly Shoe Co., Stillwater, Minn. Shoes. 308,709, renewed Dec. 19, 1953. O. G. Sept. 29. Class 39.
Convey, Incorporated, Canton, Ohio. Filing cases. 580,610, Sept. 29; Serial No. 640,613, published June 30, 1953. Class 32.
Copco Steel & Engineering Company, Detroit, Mich. Medicine cabinets for insertion in a wall, residential, commercial, industrial and utility windows, etc. 580,469, Sept. 29; Serial No. 615,821, published June 30, 1953. Class 12.
Country Distillers: *See*—
Foster Trading Corporation, The.
Cover, Harvey S., South Bend, Ind. Respirators and gas masks. 308,567, renewed Dec. 12, 1953. O. G. Sept. 29. Class 44.
Crestmont Laboratories, Inc., Philadelphia, Pa. Pharmaceutical preparation. 580,464, Sept. 29; Serial No. 616,588, published June 23, 1953. Class 18.
Croxman Seed Corporation, East Rochester, N. Y. Lawn seed mixture. 580,523, Sept. 29; Serial No. 629,291, published June 30, 1953. Class 1.
Curtis, Helene, Industries, Inc., Chicago, Ill. Hair conditioner. 580,485, Sept. 29; Serial No. 623,340, published June 30, 1953. Class 51.
Davidson Plywood and Lumber Co., Los Angeles, Calif. Lumber and plywood. 580,504, Sept. 29; Serial No. 626,934, published June 23, 1953. Class 12.
Delanium Carbon Corporation: *See*—
British-American Carbon Corporation.
Delaware Punch Company of America, The, San Antonio, Tex. Concentrates used in the preparation of maltless soft drinks. 580,577, Sept. 29; Serial No. 636,971, published June 10, 1953. Class 45.
Denison Manufacturing Company, The, Asheville, N. C. Granular compound which removes grease and oil from floors. 580,529–30, Sept. 29; Serial Nos. 630,125–6, published June 23, 1953. Class 52.
Dependable Machine Company, Greensboro, N. C. Woodworking machinery. 580,553, Sept. 29; Serial No. 634,524, published June 16, 1953. Class 23.
Devil Laboratories Company: *See*—
Neyer, Charles W.
De Vlieg Machine Company, Ferndale, Mich. Machine tool positioning mechanism. 580,440, Sept. 29; Serial No. 609,437, published Mar. 3, 1953. Class 23.
Dick, A. B., Company, Chicago, to A. B. Dick Company, Niles, Ill. Duplicating machines and parts thereof. 306,272, renewed Sept. 12, 1953. O. G. Sept. 29. Class 23.
Dispensers, Inc., Los Angeles, Calif. Kitchen scoop for serving food. 580,596, Sept. 29; Serial No. 639,025, published June 2, 1953. Class 23.
Distillers Company (Biochemicals) Limited, The, Speke, Liverpool, England. Antibiotic preparation. 580,447, Sept. 29; Serial No. 612,898, published June 23, 1953. Class 18.
Divino Brothers Company, Utica, N. Y. Backstands for use with buffing, polishing, and grinding equipment. 580,438, Sept. 29; Serial No. 607,895, published Mar. 3, 1953. Class 23.
Dixie Cream Donut Company: *See*—
Hubba, Elmer A.
Dixie Cream Flour Company: *See*—
Hubba, Elmer A.
Doho Chemical Corporation, New York, N. Y., assignee of Dr. W. V. Horst. Antibiotic preparation. 580,468, Sept. 29; Serial No. 618,520, published June 30, 1953. Class 18.
Dritz, John, & Sons, New York, N. Y. Cords yarns. 580,551, Sept. 29; Serial No. 633,971 published Feb. 17, 1953. Class 43.
Dunham, James H., & Co., New York, N. Y. Fabric or fabrics cut in predetermined forms for arrangement in accordance with instructions to form casual and beach jackets and sport shirts, etc. 580,486, Sept. 29; Serial No. 623,504, published June 30, 1953. Class 39.
Eau de Colognefabriek J. C. Boldoot N. V., Amsterdam, Netherlands. Perfumes, colognes, toilet cream, etc. 580,443–4, Sept. 29; Serial Nos. 611,604–5, published June 30, 1953. Class 51.
Elder, Paul B., Company, Bryan, Ohio. Medicinal preparation. 580,514, Sept. 29; Serial No. 627,998, published Mar. 17, 1953. Class 18.
Ellena Brothers, Etiwanda, Calif. Grape juice. 580,541, Sept. 29; Serial No. 632,553, published June 16, 1953. Class 45.
Enamel Products Company, The, Cleveland, Ohio. Chalk boards. 580,613, Sept. 29; Serial No. 641,032, published June 16, 1953. Class 50.
England, George C., Inglewood, Calif. Live chinchillas. 580,581, Sept. 29; Serial No. 637,120, published June 30, 1953. Class 1.
Esso Incorporated, New York, N. Y. Monthly periodical. 306,422, renewed Dec. 5, 1953. O. G. Sept. 29. Class 38.
Excelsior Varsity Underwear Corporation, Baltimore, Md., to Varsity Pajamas, Incorporated, New York, N. Y. Pajamas and underwear. 308,307, renewed Nov. 28, 1953. O. G. Sept. 29. Class 39.
Fabergé, Inc., New York, N. Y. Perfumes. 580,562, Sept. 29; Serial No. 635,753, published June 30, 1953. Class 51.
Fairfield Laboratories, Inc., Plainfield, N. J. Germicidal, deodorant and disinfectant composition. 580,506, Sept. 29; Serial No. 627,054, published June 23, 1953. Class 18.
Farmcraft Feeds, Inc., Des Moines, Iowa. Livestock and poultry feed balancer or supplement. 580,513, Sept. 29; Serial No. 627,934, published June 23, 1953. Class 18.
Federal Nut Co., Inc., New York, N. Y. Salted nuts. 580,454, Sept. 29; Serial No. 614,044, published June 23, 1953. Class 46.
Federated Department Stores, Inc.: *See*—
Abraham & Straus, Inc.
Feedstuffs Processing Company, Oakland, Calif. Protein, fat, fibre, and ash mixture adapted as a food supplement. 580,631, Sept. 29; Serial No. 626,938. Class 18.
Feinrider Bros., New York, N. Y. Ladies' dresses. 580,607, Sept. 29; Serial No. 640,201, published June 30, 1953. Class 39.
Fiat Società per Azioni, Turin, Italy. Locks and metallic cabinets for use as safes. 580,544, Sept. 29; Serial No. 633,046, published June 16, 1953. Class 25.
Firmenich Incorporated, New York, N. Y. Natural and synthetic essential oils and aromatic chemicals used as a base or an ingredient in perfumery. 580,586, Sept. 29; Serial No. 637,433, published June 23, 1953. Class 51.
Flower Fame, New York, N. Y. Artificial flowers and feathers. 580,469, Sept. 29; Serial No. 618,788, published June 30, 1953. Class 40.
Forney, Harold R., Surprise, Nebr. Extensible hitches employed for coupling a tractor to a cargo transporting wagon. 580,450, Sept. 29; Serial No. 613,508, published June 16, 1953. Class 23.
Foster Trading Corporation, The, doing business as T. W. Samuels Distillery, Old Jordan Distillery, Our Own Distillery, and Country Distillers, Louisville, Ky. Whiskey. 580,589, Sept. 29; Serial No. 637,650, published June 16, 1953. Class 49.
"4711" Limited, Beverly Hills, Calif. Baby oil shampoo. 580,567, Sept. 29; Serial No. 636,596, published June 23, 1953. Class 52.
Fox River Tractor Co., Appleton, Wis. Forage harvesters, forage blowers, bale breakers, etc. 580,509, Sept. 29; Serial No. 627,366, published June 16, 1953. Class 23.
Freeman Shoe Corporation, Beloit, Wis. Boots and shoes. 305,650, renewed Aug. 22, 1953. O. G. Sept. 29. Class 39.
Frieder, S., & Sons Company, The, Cincinnati, Ohio, and Philadelphia, Pa. Cigars and cheroots. 580,416, Sept. 29; Serial No. 569,515, published June 30, 1953. Class 17.
Fuller, W. P., & Co., San Francisco, Calif. Paints. 400,063, Feb. 16, 1943. Restricted. O. G. Sept. 29. Class 16.
Ganahl, Alexander J., doing business as Ganahl Company, St. Louis, Mo. Columnar structures. 580,426, Sept. 29; Serial No. 597,746, published June 30, 1953. Class 12.
Ganahl Company: *See*—
Ganahl, Alexander J.
General Aniline & Film Corporation: *See*—
Kalle & Co. Aktiengesellschaft.
General Bottlers, Inc., Chicago, Ill. Bottled carbonated soft drink beverages. 580,425, Sept. 29; Serial No. 597,203, published June 30, 1953. Class 45.
General Motors Corporation, Detroit, Mich. Locks and keys. 580,620, Sept. 29; Serial No. 643,152, published June 23, 1953. Class 25.
Givler Products Company: *See*—
Givler, W. S.
Givler, W. S., doing business as Givler Products Company, Chicago, Ill. Vitaminised mineral feed supplements. 580,532, Sept. 29; Serial No. 630,595, published June 23, 1953. Class 18.
Glaser, H., & Son: *See*—
Glaser, Isaac.
Glaser, H., & Son, Inc.: *See*—
Glaser, Isaac.
Glaser, Isaac, doing business as H. Glaser & Son, to H. Glaser & Son, Inc., Boston, Mass. Women's hosiery. 304,361, renewed July 4, 1953. O. G. Sept. 29. Class 39.
Globe Distributing Company, The, Washington, D. C. Wines. 580,453, Sept. 29; Serial No. 613,911, published June 16, 1953. Class 47.
Grav-I-Flo Corporation, The, Sturgis, Mich. Tumbling machines and parts thereof. 580,446, Sept. 29; Serial No. 612,321, published June 2, 1953. Class 23.
Great Western Sugar Company, The, Denver, Colo. Beet seed. 580,594–6, Sept. 29; Serial Nos. 638,533–5, published June 23, 1953. Class 1.
Guinness, Arthur, Son & Co. (Dublin) Limited: *See*—
Hall, T. B., & Co., Limited.

Gumpert, S., & Co., Brooklyn, N. Y., to S. Gumpert Co., Inc., Jersey City, N. J. Combination of flavoring for cake icing. 93,846, re-renewed Oct. 21, 1953. O. G. Sept. 29. Class 46.

Gumpert, S., Co., Inc.: *See*—
Gumpert, S., & Co.

Hafner Associates, Inc., New York, N. Y. Textile fabrics. 417,162, Oct. 16, 1945. Republished Sept. 29. Class 42.

Hall, T. B., & Co., Limited, Liverpool, England, to Arthur Guinness, Son & Co. (Dublin) Limited, Dublin, Ireland. Malt beverages. 306,513, renewed Sept. 19, 1953. O. G. Sept. 29. Class 48.

Hansen Manufacturing Company, Incorporated, Princeton, Ind. Small direct current electric motors. 580,533, Sept. 29; Serial No. 630,710, published July 7, 1953. Class 21.

Harrison Art Advertising, Inc., doing business as Harrison Color Process, Philadelphia, Pa. Preparing and printing advertising copy. 580,621, Sept. 29; Serial No. 613,669, published June 30, 1953. Class 101.

Harrison Color Process: *See*—
Harrison Art Advertising, Inc.

Hawkinson, Paul E., Company, Minneapolis, Minn. Tire buffing machines and rims therefor, etc. 580,482, Sept. 29; Serial No. 622,824, published June 2, 1953. Class 23.

Helwith, Alfred L., & Co., Inc., to J. P. Stevens & Co., Inc., New York, N. Y. Men's cotton shirtings, and cotton textile fabrics. 305,755, renewed Aug. 22, 1953. O. G. Sept. 29. Class 42.

Helwith, Alfred L., & Co., Inc., to J. P. Stevens & Co., Inc., New York, N. Y. Men's cotton shirtings, and cotton textile fabrics. 307,963, renewed Nov. 14, 1953. O. G. Sept. 29. Class 42.

Helwith, Alfred L., & Co., Inc., to J. P. Stevens & Co., Inc., New York, N. Y. Men's cotton shirtings, and cotton textile fabrics. 308,793, renewed Dec. 19, 1953. O. G. Sept. 29. Class 42.

Henro Blouse Corporation, New York, N. Y. Ladies' blouses, skirts, and sport shorts. 580,617, Sept. 29; Serial No. 641,925, published June 30, 1953. Class 39.

Hers Specialty Products, Inc., Long Island City, N. Y. School bags, beach bags, fitted and unfitted traveling bags, etc. 580,452, Sept. 29; Serial No. 613,774, published June 30, 1953. Class 3.

Hockensmith, John B., doing business as John's Hair Stylist or Johns Hollywood Beauty Salon, Knoxville, Tenn. Permanent wave lotion. 580,520, Sept. 29; Serial No. 629,109, published June 23, 1953. Class 51.

Honan-Crane Corporation, Lebanon, Ind. Skid supported hopper. 580,434, Sept. 29; Serial No. 606,529, published June 2, 1953. Class 23.

Horlacher Brewing Company, Allentown, Pa. Beer and ale. 501,443, Aug. 10, 1948. Amended. O. G. Sept. 29. Class 48.

Hubbs, Elmer A., doing business as Dixie Cream Donut Company, Dallas, Tex., to Dixie Cream Flour Company, St. Louis, Mo. Doughnuts and doughnut flour. 309,368, renewed Jan. 9, 1954. O. G. Sept. 29. Class 46.

Hudson Foam Latex Fabricators, Inc., Yonkers, N. Y. Sheets and slab foam rubber and cellular rubber. 580,636, Sept. 29; Serial No. 630,074. Class 1.

Hunt, C. Howard, Pen Co., Camden, N. J. Text books including plates and instruction sheets. 307,572, renewed Oct. 31, 1953. O. G. Sept. 29. Class 38.

Hygrade Food Products Corporation, Detroit, Mich. Frankfurters. 580,628, Sept. 29; Serial No. 616,101. Class 46.

Illinois Baking Corporation, Chicago, Ill. Ice cream cone dispensers. 580,635, Sept. 29; Serial No. 629,301. Class 2.

Independent Leather Manufacturing Co., Inc., Gloversville, N. Y. Water-repellent and treated leather. 580,583, Sept. 29; Serial No. 637,278, published June 30, 1953. Class 1.

Inecto Limited, London, England, to Sales Affiliates, Inc., New York, N. Y. Preparation for dyeing the hair. 93,179, re-renewed Aug. 26, 1953. O. G. Sept. 29. Class 51.

Inter-Coastal Paint Corporation, East St. Louis, Ill. Ready-mixed paint. 580,608, Sept. 29; Serial No. 640,282, published June 30, 1953. Class 16.

International Banking Corporation, New York, N. Y., and elsewhere in the United States and in foreign nations. Banking services. 580,623, Sept. 29; Serial No. 632,876, published June 30, 1953. Class 102.

International Silver Company, The, Meriden, Conn. Stainless steel flatware. 580,531, Sept. 29; Serial No. 630,134, published June 9, 1953. Class 23.

Isenstead, Joseph H., Canajoharie, N. Y. Liver extract, insulin, spleen preparation. 580,559, Sept. 29; Serial No. 635,420, published June 30, 1953. Class 18.

Jackson, Robt. G., to Roman Meal Company, Tacoma, Wash. Compound meal or flour. 94,454, re-renewed Dec. 9, 1953. O. G. Sept. 29. Class 46.

Jarrett, Rainsford & Laughton Limited, Birmingham, England. Empty face powder compact cases. 580,629, Sept. 29; Serial No. 618,117. Class 2.

Jefferson, Thomas, Memorial Foundation, Incorporated, Charlottesville, Va. Chests of drawers, wardrobes, tables, and chairs. 580,502, Sept. 29; Serial No. 626,329, published June 30, 1953. Class 32.

Joell Manufacturing Co.: *See*—
Menschik, Murray.

John's Hair Stylist: *See*—
Hockensmith, John B.

Johns Hollywood Beauty Salon: *See*—
Hockensmith, John B.

Johnson Distributing Company: *See*—
Johnson, Sam S.

Johnson, Sam S., doing business as Johnson Distributing Company, Columbus, Nebr. Roller mill. 580,492, Sept. 29; Serial No. 624,952, published Mar. 31, 1953. Class 23.

Kabushiki Kaisha Kotobukiya, Osaka, Japan. Whisky, gin, brandy, and rum. 305,350, renewed Aug. 15, 1953. O. G. Sept. 29. Class 49.

Kalle & Co. Aktiengesellschaft, Wiesbaden-Biebrich, Germany, to General Aniline & Film Corporation, New York, N. Y. Prints. 305,124, renewed Aug. 1, 1953. O. G. Sept. 29. Class 38.

Kenmore Metals Corporation, Jersey City, N. J. Precoated metallic wire and stripping. 580,481, Sept. 29; Serial No. 622,260, published June 30, 1953. Class 14.

Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. 307,122, renewed Oct. 17, 1953. O. G. Sept. 29. Class 40.

Kleinert, I. B., Rubber Company, New York, N. Y. Women's panties. 580,449, Sept. 29; Serial No. 613,374, published June 30, 1953. Class 39.

Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. 580,604, Sept. 29; Serial No. 639,887, published June 30, 1953. Class 40.

Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. 580,605, Sept. 29; Serial No. 640,000, published June 30, 1953. Class 40.

Kraft Foods Company: *See*—
Kraft-Phenix Cheese Corporation.

Kraft-Phenix Cheese Corporation, to Kraft Foods Company, Chicago, Ill. Salad dressing and salad spread. 308,260, renewed Nov. 28, 1953. O. G. Sept. 29. Class 46.

Kress, S. H., and Company, New York, N. Y. Thread and yarn. 580,619, Sept. 29; Serial No. 642,445, published June 30, 1953. Class 43.

Krey Packing Company, St. Louis, Mo. Hams. 580,427, Sept. 29; Serial No. 597,766, published June 23, 1953. Class 46.

Lamb, Alfred, & Son Limited, London, England. Rum. 580,457, Sept. 29; Serial No. 615,124, published June 16, 1953. Class 49.

Laminated Screens, Inc., New York, N. Y. Articles for interior decoraitng—name'y, screens, etc. 580,546, Sept. 29; Serial No. 633,310, published June 16, 1953. Class 32.

Lammertz, Leo, Aachen, Germany. Hand sewing needles. 580,433, Sept. 29; Serial No. 606,405, published June 30, 1953. Class 40.

Lancia & C. Fabrica Automobili Torino S. A.: *See*—
Lancia & Co.

Lancia & Co., to Lancia & C. Fabrica Automobili Torino S. A., Turin, Italy. Automobiles. 91,974, re-renewed June 10, 1953. O. G. Sept. 29. Class 19

Lang Brothers Limited, Glasgow, Scotland. Whisky. 307,371, renewed Oct. 24, 1953. O. G. Sept. 29. Class 49.

Lang Brothers, Limited, Glasgow, Scotland. Whisky. 308,126, renewed Nov. 21, 1953. O. G. Sept. 29. Class 49.

La Resista Corset Company, The, Bridgeport, Conn. Brassières, ladies' foundation under garments, and ladies' bathing suits. 580,618, Sept. 29; Serial No. 642,148, published June 30, 1953. Class 39.

Larson Laboratories, Inc., Erie, Pa. Medicated foot cream, and lotion. 580,537, Sept. 29; Serial No. 631,355, published June 23, 1953. Class 18.

Legge, Walter G., Company, Inc., New York, N. Y. Grounding devices adapted to be attached to equipment for the prevention of shock. 580,612, Sept. 29; Serial No. 640,795, published June 30, 1953. Class 21.

Les Heritiers de Marie Brizard & Roger, Achard, Glotin & Cie, Bordeaux, France. Alcoholic liqueurs. 580,465, Sept. 29; Serial No. 616,718, published June 30, 1953. Class 49.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. 580,580, Sept. 29; Serial No. 637,058, published June 30, 1953. Class 18.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. 580,601, Sept. 29; Serial No. 639,320, published June 30, 1953. Class 18.

Lonshein-Saqqal, Inc., New York, N. Y. Robes, housecoats, pajamas, and negligees. 580,550, Sept. 29; Serial No. 633,848, published June 30, 1953. Class 39.

Macmillan Petroleum Corporation, Los Angeles, Calif. Lubricating oils and greases. 580,563, Sept. 29; Serial No. 635,879, published June 23, 1953. Class 15.

Madera Bonded Wine and Liquor Company, The, Baltimore, Md. Wines. 580,556, Sept. 29; Serial No. 634,744, published June 30, 1953. Class 47.

Magnavox Company, The, to The Magnavox Company, Fort Wayne, Ind. Electrical condensers and capacitors. 306,179, renewed Sept. 12, 1953. O. G. Sept. 29. Class 21.

Mandleberg, J., & Company (Holdings) Limited: *See*—
Mandleberg, J., & Company Limited.

Mandleberg, J., & Company Limited, to J. Mandleberg & Company (Holdings) Limited, Manchester, England. Water-proofed textile fabrics. 304,987, renewed July 25, 1953. O. G. Sept. 29. Class 42.

Mandleberg, J., & Company Limited, to J. Mandleberg & Company (Holdings) Limited, Manchester, England. Showerproof textile fabrics. 305,657, renewed Aug. 22, 1953. O. G. Sept. 29. Class 42.

Marathon Corporation: *See*—
Menasha Products Company, The.

Marcelle Cosmetics, Inc., Chicago, Ill. Pharmaceutical ointment. 580,527, Sept. 29; Serial No. 629,741, published June 23, 1953. Class 18.

Mathieson Chemical Corporation, assignee: *See*—
Squibb, E. R., & Sons.

Mayrath Machinery Co., Inc., Dodge City, Kans. Mobile power-operated grain loaders. 580,535, Sept. 29; Serial No. 634,600, published June 9, 1953. Class 23.

McDonald, A. Y., Mfg. Co., Dubuque, Iowa. Shallow and deep well reciprocating pumps, jet pumps, cellar pumps, etc. 580,479, Sept. 29; Serial No. 621,274, published June 9, 1953. Class 23.

Menasha Products Company, The, to Marathon Corporation, Menasha, Wis. Receptacles. 307,877, renewed Nov. 7, 1953. O. G. Sept. 29. Class 2.

Menschik, Murray, doing business under the trade name Joell Manufacturing Co., Brooklyn, N. Y. Fitted hand bags. 580,573, Sept. 29; Serial No. 636,898, published June 30, 1953. Class 3.

Mexico Refractories Company, Mexico, Mo. Refractory mixture for coating ingot mould stools. 580,510, Sept. 29; Serial No. 627,519, published June 23, 1953. Class 12.

Meyer, George J., Malt and Grain Corporation, Buffalo, N. Y. Malt in the form of germinated grain. 580,522, Sept. 29; Serial No. 629,300, published June 30, 1953. Class 1.

Miller and Rhoads, Incoroprated, Richmond, Va. Bedroom suites and open-stock pieces therefor, dining room suites and open-stock pieces therefor, etc. 580,484, Sept. 29; Serial No. 623,112, published June 30, 1953. Class 32.

Modern Village Stores, Inc., El Monte, Calif. Checkout counter with built-in motor and conveyor belt. 580,515, Sept. 29; Serial No. 628,005, published June 16, 1953. Class 23.

Modrak, Michael Gary, Ind. Sterilising detergent. 580,472, Sept. 29; Serial No. 619,581, published June 23, 1953. Class 52.

Monte Vista Flour Mills Co., The: *See*—
Colorado Milling & Elevator Co., The.

Moore & Munger, New York, N. Y. Petroleum wax composition. 580,536, Sept. 29; Serial No. 631,214, published May 19, 1953. Class 15.

N. V. Nederlandsche Machinefabriek "Artillerie Inrichtingen," Hembrug, Zaandam, Netherlands. Machine tools. 580,478, Sept. 29; Serial No. 621,082, published June 2, 1953. Class 23.

National Tube Company, to United States Steel Corporation, Pittsburgh, Pa. Pipes, tubes, and casings. 94,392, re-renewed Dec. 2, 1953. O. G. Sept. 29. Class 13.

New Holland Machine Company, New Holland, Pa. Farm machinery. 580,420, Sept. 29; Serial No. 577,443, published Feb. 24, 1953. Class 23.

Newport Mineral Water Co., Inc., Newport, Ky. Noncaloric carbonated maltless soft drinks. 580,582, Sept. 29; Serial No. 637,136, published June 16, 1953. Class 45.

Neyer, Alice R., assignee: *See*—
Neyer, Charles W.

Neyer, Charles W., doing business as Devil Laboratories Company, assignor to A. R. Neyer, doing business as Devil Laboratories Company, Cincinnati, Ohio. Parts for pyrophoric cigar and cigarette lighters. 580,415, Sept. 29; Serial No. 563,274, published Oct. 2, 1951. Class 8.

Nitedals Taendstikfabrik, Gronvold, near Christiania, to Bryn-Halden & Nitedals Taendstikfabrik A/S, Bryn, near Oslo, Norway. Matches. 91,990. re-renewed June 10, 1953. O. G. Sept. 29. Class 9.

Nolan Company, The, Bowerston, Ohio. Mine machinery, pottery machinery, railway equipment. 580,439, Sept. 29; Serial No. 609,043, published Mar. 10, 1953. Class 23.

Nova Sales Co., Trenton, N. J. Water-proofing compositions for admixture with concrete, stucco, etc. 580,451, Sept. 29; Serial No. 618,677, published June 30, 1953. Class 12

Old Jordan Distillery: *See*—
Foster Trading Corporation, The.

Oliger, J. C., Seed Company, Akron, Ohio. Lawn seeds and field seeds. 580,490, Sept. 29; Serial No. 624,754, published June 23, 1953. Class 1.

Oppenheim, Marvin, doing business as Precision Pharmacal, Cleveland Heights, Ohio. Antiseptic emulsion. 580,445, Sept. 29; Serial No. 612,029, published June 23, 1953. Class 18.

Our Own Distillery: *See*—
Foster Trading Corporation, The.

Pacific Universal Products Corporation, doing business under the name and style of Acra Instruments, Pasadena, Calif. Liquid for cleaning glass optical surfaces. 580,564, Sept. 29; Serial No. 636,249, published June 23, 1953. Class 52.

Panacalite Pacific, Inc., Los Angeles, Calif. Expanded perlite. 580,520–6, Sept. 29; serial Nos. 629,510–11, published June 30, 1953. Class 1.

Panther Oil & Grease Mfg. Co., Fort Worth, Tex. Asphalt material. 580,602, Sept. 29; Serial No. 639,286, published June 23, 1953. Class 12.

Parker Pen Company, The, Janesville, Wis. Fountain pens, mechanical pencils and desk sets. 306,418, renewed Dec. 5, 1953. O. G. Sept. 29. Class 37.

Patch, E. L., Company, The, Stoneham, Mass. Analeptic tablet. 580,480, Sept. 29; Serial No. 621,899, published June 23, 1953. Class 18.

Pennsylvania Flexible Metallic Tubing Co., Philadelphia, Pa. Barrel-filiers. 94,664, re-renewed Dec. 23, 1953. O. G. Sept. 29. Class 23.

Perfect Circle Corporation, Hagerstown, Ind. Machines for providing an interrupted peripheral surface on cylindrical objects. 580,593, Sept. 29; Serial No. 638,155, published June 9, 1953. Class 23.

Perry's Valet Service: *See*—
Reichman, Perry.

Peter, Polly, Togs, Inc., New York, N. Y. Children's dresses, baby boy suits, playsuits, etc. 306,799, renewed Dec. 19, 1953. O. G. Sept. 29. Class 39.

Petermann Co., Union City, N. J. Non-alcoholic, maltless grape-flavored soft drinks. 580,569, Sept. 29; Serial No. 636,731, published June 16, 1953. Class 45.

Petry, Victor: *See*—
Pierce-Arrow Motor Car Company, The.

Peverada, Louis, doing business under the name and style of Salad Queen Food Products, Portland, Maine. Pop-corn seasoning. 580,431. Sept. 29; Serial No. 603,938, published June 23, 1953. Class 46.

Pierce-Arrow Motor Car Company, The, Buffalo, N. Y., to V. Petry, doing business as Pierce Arrow Motor Car Distributor, San Francisco, Calif. Motor-cars and automobiles. 92,710, re-renewed July 22, 1953. O. G. Sept. 29. Class 19.

Pierce Arrow Motor Car Distributor: *See*—
Pierce-Arrow Motor Car Company, The.

Pittsburgh Lectromelt Furnace Corporation, Pittsburgh, Pa. Bottom hinged buckets adapted to be suspended from a crane hook or other maneuvering apparatus. 580,507, Sept. 29; Serial No. 627,221, published June 16, 1953. Class 23.

Plough, Inc., Memphis, Tenn. Medicinal and toilet preparations. 308,015, renewed Nov. 14, 1953. O. G. Sept. 29. Class 51.

Power Coal Company, Kansas City, Mo. Coal. 580,597, Sept. 29; Serial No. 638,552, published June 23, 1953. Class 1.

Precision Pharmacal: *See*—
Oppenheim, Marvin.

Premier Plastics Company: *See*—
Arliss, Charles.

Pressing Supply Company, Philadelphia, Pa. Ironing board pads and ironing board pad covers. 580,489, Sept. 29; Serial No. 624,499, published June 30, 1953. Class 24.

Prospect Paint Company: *See*—
Biodlowski, Walter.

Reardon Company, The, St. Louis, Mo. Plastic texture paint. 580,495. Sept. 29; Serial No. 625,296, published July 29, 1952. Class 16.

Record Guild of America Inc., The, New York, N. Y. Children's grooved phonograph records. 580,592, Sept. 29; Serial No. 637,792, published July 14, 1953. Class 36.

Red River Chemical Co., Philadelphia, Pa. Preparation for the treatment of athlete's foot, ringworm, and other fungicidal infections. 580,591. Sept. 29; Serial No. 637,720, published June 23, 1953. Class 18.

Reed, Theodore S., doing business as Sales-Aid Co., Trenton, N. J. Boards having simulated road intersections thereon, etc. 580,638, Sept. 29; Serial No. 633,589. Class 50.

Reeder, Oliver, & Son, Incorporated, Baltimore, Md. Base paints, prepared paints, lacquers, etc. 580,523, Sept. 29; Serial No. 589,334, published July 8, 1952. Class 16.

Regensburg, E., & Sons, New York, N. Y. Cigars. 580,611, Sept. 29; Serial No. 640,759, published June 30, 1953. Class 17.

Reichman, Perry, doing business as Perry's Valet Service, Cincinnati, Ohio. Dry cleaning services. 580,647, Sept. 29; Serial No. 641,972. Class 103.

Rentner, Maurice, Inc., New York, N. Y. Perfumes 580,487. Sept. 29; Serial No. 623,850, published June 30, 1953. Class 51.

Revolvator Company, North Bergen, N. J. Portable tiering machines and lift trucks. 580,566, Sept. 29; Serial No. 636,497, published June 2, 1953. Class 23.

Rheinische Röhrenwerke Aktiengesellschaft, Mulheim au der Ruhr, Germany. Metal plates and metal sheets and metal tubing stock. 580,558, Sept. 29; Serial No. 635,824, published June 30, 1953. Class 14.

Riegel Textile Corporation, to Riegel Textile Corporation, New York, N. Y. Cotton piece goods—namely, diapers. 306,732, renewed Dec. 19, 1953. O. G. Sept. 29. Class 39.

Riegel Textile Corporation, to Riegel Textile Corporation, New York, N. Y. Cotton piece goods and fabricated articles. 308,802, renewed Dec. 19, 1953. O. G. Sept. 29. Class 42.

Rogers Pump Co.: *See*—
Rogers, Vernon R.

Rogers, Vernon R., doing business as Rogers Pump Co., Oshkosh, Wis. Sump pumps, coolant pumps, vacuum pumps, etc. 580,412, Sept. 29; Serial No. 550,440, published June 16, 1953. Class 23.

Roman Meal Company: *See*—
Jackson, Robert G.

Roth Silk Undergarment Co., Inc., New York, N. Y. Women's and misses' slips, petticoats and nightgowns. 580,570, Sept. 29; Serial No. 636,739, published June 30, 1953. Class 39.

Rubinstein, Helena, Inc., New York, N. Y. Estrogenic hormone cream and oil and estrogenic hormone hand lotion, etc. 580,554, Sept. 29; Serial No. 634,549, published June 23, 1953. Class 51.

Salad Queen Food Products: *See*—
Peverada, Louis.

Sales Affiliates, Inc.: *See*—
Inecto Limited.

Sales-Aid Co.: *See*—
Reed, Theodore S.

Samuels, T. W., Distillery: *See*—
Foster Trading Corporation, The.

Santa Ana-Tustin Mutual Citrus Association, Tustin, Calif. Fresh citrus fruits. 308,563, renewed Dec. 12, 1953. O. G. Sept. 29. Class 46.

Schalk Chemical Company, Los Angeles, Calif. Polishing wax. 580,417, Sept. 29; Serial No. 570,384, published June 23, 1953. Class 4.

Schenley Laboratories, Inc., New York, N. Y. Antibiotic feed supplements. 580,584, Sept. 29; Serial No. 637,403, published June 30, 1953. Class 18.

Scull, William S., Company, Camden, N. J. Blended coffee. 94,207, re-renewed Nov. 11, 1953. O. G. Sept. 29. Class 46.

Seaplant Chemical Corporation, New Bedford, Mass. Refined Irish moss extractives used in toothpaste, and refined red seaweed extractives. 580,528, Sept. 29; Serial No. 630,035, published June 23, 1953. Class 51.

Seminole Flavor Company, Chattanooga, Tenn. Orange-flavored carbonated non-alcoholic non-cereal maltless beverages. 580,418, Sept. 29; Serial No. 576,289, published June 16, 1953. Class 45.

Seminole Flavor Company, Chattanooga, Tenn. Grape-flavored carbonated non-alcoholic non-cereal maltless beverages. 580,419, Sept. 29; Serial No. 576,290, published June 16, 1953. Class 45.

Sewai, Wong, doing business as Wing Lee Wai, San Francisco, Calif., and Hong Kong, China. Alcohol beverage. 580,565, Sept. 29; Serial No. 636,310, published June 16, 1953. Class 49.

Shakespeare Company, Kalamazoo, Mich. Fishing reels. 580,535, Sept. 29; Serial No. 631,069, published June 30, 1953. Class 22.

Sherer-Gillett Company, Marshall, Mich. Display counters, self-service food counters, and combination display and self-service food counters. 580,542, Sept. 29; Serial No. 632,696, published June 30, 1953. Class 32.

Sherman, Robert M., New York, N. Y. Medical preparation. 580,467, Sept. 29; Serial No. 618,073, published June 23, 1953. Class 18.

Silf Co. Limited, The, London, England. Medicated preparation. 580,496, Sept. 29; Serial No. 625,301, published June 23, 1953. Class 18.

Siodlowski, Walter, doing business as Prospect Paint Company, Secaucus, N. J. Asphalt and asbestos roof cements, asphalt and asbestos roof coatings, etc. 580,460, Sept. 29; Serial No. 615,860, published Dec. 2, 1952. Class 12.

Skuttle Manufacturing Company, Detroit, Mich. Diffuser plates for air humidifying apparatus. 409,249, Sept. 26, 1944. Republished Sept. 29. Class 34.

Smith-Dorsey: *See*—
Wander Company, The.

Societe Vinicole de Pauillac (Societe Anonyme), Pauillac, France. Wines. 580,517, Sept. 29; Serial No. 628,783, published June 16, 1953. Class 47.

Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Preparation for treatment of and prophylaxis against infections. 580,448, Sept. 29; Serial No. 613,146, published June 23, 1953. Class 18.

Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Preparation for use in the treatment of diarrheas, etc. 580,540, Sept. 29; Serial No. 632,450, published June 30, 1953. Class 18.

Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Antibacterial preparation. 580,549, Sept. 29; Serial No. 633,592, published June 23, 1953. Class 18.

Standard Food Products Corp., Brooklyn, N. Y. Brandy. 580,421, Sept. 29; Serial No. 583,176, published June 16, 1953. Class 49.

Standard Food Products Corp., Brooklyn, N. Y. Wines. 580,456, Sept. 29; Serial No. 614,795, published June 30, 1953. Class 47.

Star Knitting Company, La Crosse, Wis. Women's and children's blouses. 580,491, Sept. 29; Serial No. 624,764, published June 30, 1953. Class 39.

Sterling Brewers, Inc.: *See*—
Sterling Products Company.

Sterling Products Company, to Sterling Brewers, Inc., Evansville, Ind. Malt products. 306,673, renewed Sept. 26, 1953. O. G. Sept. 29. Class 46.

Stern Brothers, New York, N. Y. Bath towels, bath mats, dish towels, etc. 580,603, Sept. 29; Serial No. 639,523, published June 30, 1953. Class 42.

Stevens, J. P., & Co., Inc.: *See*—
Helwith, Alfred L., & Co., Inc.

Stono Potato Washer, Stono, S. C. Potatoes. 580,639, Sept. 29; Serial No. 640,415. Class 46.

Stoppers Company: *See*—
Stoppers, Inc.

Stoppers, Inc., New York, N. Y., assignee of J. R. Allen, doing business under the name Stoppers Company, Candy. 580,624, Sept. 29; Serial No. 602,300. Class 46.

Summit Sportswear Company, Boston, Mass. Skirts. 580,599, Sept. 29; Serial No. 639,200, published June 30, 1953. Class 39.

Supreme Products, Inc., Chicago, Ill. Chucks and parts thereof, and chuck key and chuck adaptor. 580,466, Sept. 29; Serial No. 617,065, published June 16, 1953. Class 23.

Swift & Company: *See*—
Swift and Company.

Swift and Company, to Swift & Company, Chicago, Ill. Gelatin. 305,471, renewed Aug. 15, 1953. O. G. Sept. 29. Class 46.

Takaki, Ralph N., doing business as Takaki Sanyo-Do, Honolulu, Hawaii. Mixed dried tea and seaweed. 580,644, Sept. 29; Serial No. 642,320. Class 46.

Takaki Sanyo-Do: *See*—
Takaki, Ralph N.

Tempo Company, Kansas City, Mo. Photo-sensitive coatings for lithographic plates, developing agents, etc. 580,626, Sept. 29; Serial No. 613,746. Class 6.

Texas Dress Corporation, Dallas, Tex. Women's and children's dresses, blouses, skirts, and jackets. 580,590, Sept. 29; Serial No. 637,670, published June 30, 1953. Class 39.

Thomas Electronics, Inc., Passaic, N. J. Cathode-ray picture tubes. 580,471, Sept. 29; Serial No. 619,554, published Apr. 8, 1952. Class 21.

Threads, Incorporated, Gastonia, N. C. Sewing thread. 316,557, Aug. 28, 1934. Republished Sept. 29. Class 43.

Threads, Incorporated, Gastonia, N. C. Sewing thread. 316,822, Sept. 4, 1934. Republished Sept. 29. Class 43.

Threads, Incorporated, Gastonia, N. C. Sewing thread. 326,105, July 16, 1935. Republished Sept. 29. Class 43.

Tide Water Associated Oil Company, New York, N. Y. Lubricating grease. 580,543, Sept. 29; Serial No. 633,013, published June 23, 1953. Class 15.

Tingue, Brown & Co., New York, N. Y. Cotton padding for laundry machinery rolls. 580,483, Sept. 29; Serial No. 622,912, published June 16, 1953. Class 24.

Townsend, Ralph M., Fairfax, Va. Fresh oranges, fresh orange juice, canned single strength orange juice, etc. 580,645, Sept. 29; Serial No. 644,473. Class 46.

Ubiko Milling Company, The, Cincinnati, to The Ubiko Milling Company, St. Bernard, Ohio. Mineral ingredient for mixing with dairy feeds, etc. 304,982, renewed July 25, 1953. O. G. Sept. 29. Class 18.

United States Playing Card Company, The, Cincinnati and East Norwood, Cincinnati, Ohio. Playing cards. 580,646, Sept. 29; Serial No. 649,262. Class 22.

United States Rubber Company, New York, N. Y. Pneumatic automobile tires. 580,633, Sept. 29; Serial No. 628,015. Class 35.

United States Steel Corporation: *See*—
National Tube Company.

Universal Packing & Gasket Company, Houston, Tex. Neoprene sheet, plant fiber sheet, neoprene diaphragm sheet, etc. 580,518, Sept. 29; Serial No. 628,834, published June 30, 1953. Class 1.

Upjohn Company, The, Kalamazoo, Mich. Preparation for rheumatism and rheumatoid affections, etc. 92,378, re-renewed July 1, 1953. O. G. Sept. 29. Class 18.

Vandy, Edward A., Chicago, Ill. Garden and patio furniture. 580,561, Sept. 29; Serial No. 635,559, published Apr. 14, 1953. Class 32.

Varsity Pajamas, Incorporated: *See*—
Excelsior Varsity Underwear Corporation.

Vick Chemical Company: *See*—
Bode Drug Company, Inc.

Viking Laboratories, Inc., Des Moines, Iowa. Liquid mineral feed supplement. 580,442, Sept. 29; Serial No. 609,824, published June 30, 1953. Class 18.

Viogen (Australasia) Proprietary Limited, Melbourne, Victoria, Australia. Toothpaste. 580,428, Sept. 29; Serial No. 600,869, published June 23, 1953. Class 51.

Vonett Sales Company: *See*—
Vonett Sales Corporation.

Vonett Sales Corporation, doing business as Vonett Sales Company, Los Angeles, Calif. Non-electrical hair curlers. 580,497, Sept. 29; Serial No. 625,505, published June 30, 1953. Class 40.

Von Horst, Dr. Walter: *See*—
Dohe Chemical Corporation.

Wai, Wing Lee: *See*—
Sewai, Wong.

Wander Company, The, doing business under the name Smith-Dorsey, Chicago, Ill. Antibiotic preparation. 580,516, Sept. 29; Serial No. 628,501, published June 23, 1953. Class 18.

Wander Company, The, Chicago, Ill. Antacid, sedative and anti-spasmodic preparation. 580,534, Sept. 29; Serial No. 630,741, published June 23, 1953. Class 18.

Ward Leonard Electric Company, Mount Vernon, N. Y. Electric illumination control dimmers and switchboards. 580,498, Sept. 29; Serial No. 625,555, published June 30, 1953. Class 21.

Weather Products Corporation, Providence and Warwick, R. I. Storm window and screen combinations. 580,600, Sept. 29; Serial No. 639,296, published June 23, 1953. Class 12.

Wellman, S. K., Company, The, Cleveland, to The S. K. Wellman Company, Bedford, Ohio. Brake linings and transmission linings. 306,579, renewed Sept. 26, 1953. O. G. Sept. 29. Class 35.

Wells, John C., Lakewood, Ohio. Paint brushes. 580,547, Sept. 29; Serial No. 633,440, published June 30, 1953. Class 29.

Western Acceptance Corporation, Pueblo, Colo. Financing automobile dealers' time sales, etc., and making loans. 580,622, Sept. 29; Serial No. 619,556, published June 30, 1953. Class 102.

Weyerhaeuser Timber Company, Tacoma, Wash. Chemically impregnated whole wood fiber. 580,494, Sept. 29; Serial No. 625,178, published June 23, 1953. Class 1.

White & Bagley Company, The, Worcester, Mass. Lubricant oils. 304,246, renewed June 27, 1953. O. G. Sept. 29. Class 15.

White, Bob, doing business under the name Bob White Organization, Miami, Fla. Fruit and imitation fruit concentrates and bases for making non-alcoholic maltless soft drinks and punch. 580,585, Sept. 29; Serial No. 637,412, published June 16, 1953. Class 45.

White, Bob, Organization: *See*—
White, Bob.

White Brothers, Inc., Winchendon Springs, Mass. Cotton piece goods. 580,538, Sept. 29; Serial No. 631,705, published June 30, 1953. Class 42.

Wiggin's, H. B., Sons Company, Bloomfield, N. J. Draperies, hangings, and woven fabrics. 55,129, Aug. 7, 1906. Republished Sept. 29, 1953. Class 42.

Woodmanse Mfg. Co., Freeport, Ill. Belt driven, shallow and deep well, ejector or jet pumps. 580,609, Sept. 29; Serial No. 640,367, published June 16, 1953. Class 23.

Wyandotte Chemicals Corporation, Wyandotte, Mich. Bowl cleaner and drain opener. 580,432, Sept. 29; Serial No. 604,461, published June 23, 1953. Class 52.

Yale & Towne Manufacturing Company, The, New York, N. Y. Power-operated lift trucks. 580,414, Sept. 29; Serial No. 557,644, published July 15, 1952. Class 23.

Yates-American Machine Company, Beloit, Wis. Radiators for internal combustion engines. 580,476, Sept. 29; Serial No. 620,709, published June 30, 1953. Class 23.

Ziegenhain, Elfrieda M., Woodside, N. Y. Safety purses. 580,479, Sept. 29; Serial No. 618,829, published June 30, 1953. Class 3.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Calf, kid, and goat skins. Burk Brothers. 92,630, re-renewed July 22, 1953. O. G. Sept. 29.

Chemically impregnated whole wood fiber. Weyerhaeuser Timber Company. 580,494, Sept. 29; Serial No. 625,178, published June 23, 1953.

Coal. Power Coal Company. 580,597, Sept. 29; Serial No. 638,552, published June 23, 1953.

Expanded perlite. Panacalite Pacific, Inc. 580,525–6, Sept. 29; Serial Nos. 629,510–11, published June 30, 1953.

Leather, Water-repellent and treated. Independent Leather Manufacturing Co., Inc. 580,583, Sept. 29; Serial No. 637,278, published June 30, 1953.

Live chinchillas. G. C. England. 580,581, Sept. 29; Serial No. 637,120, published June 30, 1953.

Malt in the form of germinated grain. George J. Meyer Malt and Grain Corporation. 580,522, Sept. 29; Serial No. 629,309, published June 30, 1953.

Neoprene sheet, plant fiber sheet, neoprene diaphragm sheet, etc. Universal Packing & Gasket Company. 580,518, Sept. 29; Serial No. 628,834, published June 30, 1953.

Pigmented fused glass-like ceramic composition. Chicago Vitreous Enamel Product Co. 580,580, Sept. 29; Serial No. 635,521, published June 30, 1953.

Seed, Beet. The Great Western Sugar Company. 580,594–6, Sept. 29; Serial Nos. 638,533–5, published June 23, 1953.

Seed mixture, Lawn. Crosman Seed Corporation. 580,523, Sept. 29; Serial No. 629,291, published June 30, 1953.

Seeds, Lawn, and field seeds. J. C. Oliger Seed Company. 580,490, Sept. 29; Serial No. 624,764, published June 23, 1953.

Sheets and slab foam rubber and cellular rubber. Hudson Foam Latex Fabricators, Inc. 580,636, Sept. 29; Serial No. 630,074.

CLASS 2

Bags, Paper. Comet Envelope & Paper Co., Inc. 580,630, Sept. 29; Serial No. 622,708.

Boxes, Folding paper. Burgess and Why Corporation. 580,634, Sept. 29; Serial No. 628,189.

Cases, Empty face powder compact. Jarrett, Rainsford & Laughton Limited. 580,629, Sept. 29; Serial No. 618,117.

Dispensers, Ice cream cone. Illinois Baking Corporation. 580,635, Sept. 29; Serial No. 629,301.

Plates, Paper. Bowes Industries, Inc. 580,627, Sept. 29; Serial No. 614,812.

Receptacles. The Menasha Products Company. 307,877, renewed Nov. 7, 1953. O. G. Sept. 29.

CLASS 3

Hand bags, Fitted. M. Menschik. 580,573, Sept. 29; Serial No. 636,998, published June 30, 1953.

Luggage. The Baltimore Luggage Company. 580,493, Sept. 29; Serial No. 624,962, published June 30, 1953.

Purses, Safety. H. M. Ziegenhain. 580,470, Sept. 29; Serial No. 618,829, published June 30, 1953.

School bags, beach bags, fitted and unfitted traveling bags, etc. Hera Specialty Products, Inc. 580,482, Sept. 29; Serial No. 613,774, published June 30, 1953.

CLASS 4

Abrasives, Flexible and inflexible. Behr-Manning Corporation. 580,524, Sept. 29; Serial No. 629,418, published June 23, 1953.

Cleanser. Brillo Manufacturing Company, Inc. 580,642, Sept. 29; Serial No. 640,838.

Soap pads. Brillo Manufacturing Company, Inc. 580,640–1, Sept. 29; Serial Nos. 640,835–6.

Wax, Polishing. Schalk Chemical Company. 580,417, Sept. 29; Serial No. 570,384, published June 23, 1953.

CLASS 6

Insecticides and household deodorants. H. Carson. 580,521, Sept. 29; Serial No. 629,284, published June 16, 1953.

Photo-sensitive coatings for lithographic plates, developing agents, etc. Tempo Company. 580,626, Sept. 29; Serial No. 613,746.

CLASS 8

Parts for pyrophoric cigar and cigarette lighters. C. W. Neyer. 580,415, Sept. 29; Serial No. 563,274, published Oct. 2, 1951.

CLASS 9

Matches. Nitedals Taendstikfabrik. 91,990, re-renewed June 10, 1953. O. G. Sept. 29.

CLASS 11

Carbon paper, Hectographic. Block & Anderson Limited. 580,505, Sept. 29; Serial No. 626,973, published June 30, 1953.

CLASS 12

Asphalt and asbestos roof cements, asphalt and asbestos roof coatings, etc. W. Siodlowski. 580,460, Sept. 29; Serial No. 615,860, published Dec. 2, 1952.

Asphalt material. Panther Oil & Grease Mfg. Co. 580,602, Sept. 29; Serial No. 639,388, published June 23, 1953.

Columnar structures. A. J. Ganahl. 580,426, Sept. 29; Serial No. 597,746, published June 30, 1953.

Concrete blocks. Condu-Block Company. 580,512, Sept. 29; Serial No. 627,676, published June 23, 1953.

Lumber and plywood. Davidson Plywood and Lumber Co. 580,504, Sept. 29; Serial No. 626,934, published June 23, 1953.

Medicine cabinets for insertion in a wall, residential, commercial, industrial and utility windows, etc. Copco Steel & Engineering Company. 580,459, Sept. 29; Serial No. 615,821, published June 30, 1953.

Refractory mixture for coating ingot mould stools. Mexico Refractories Company. 580,510, Sept. 29; Serial No. 627,519, published June 23, 1953.

Sound deadening sheet material. The Philip Carey Manufacturing Company. 580,643, Sept. 29; Serial No. 641,496.

Tile. British-American Carbon Corporation. 580,473, Sept. 29; Serial No. 620,087, published Dec. 2, 1952.

Tile. British-American Carbon Corporation. 580,477, Sept. 29; Serial No. 621,051, published Dec. 2, 1952.

Water-proofing compositions for admixture with concrete, stucco, etc. Nova Sales Co. 580,451, Sept. 29; Serial No. 613,077, published June 30, 1953.

Window and screen combinations, Storm. Weather Products Corporation. 580,600, Sept. 29; Serial No. 639,298, published June 23, 1953.

CLASS 13

Pipes, tubes, and casings. National Tube Company. 94,392, re-renewed Dec. 2, 1953. O. G. Sept. 29.

CLASS 14

Aluminum-alloy castings. Chemalloy Foundry Company. 580,461, Sept. 29; Serial No. 615,869, published June 30, 1953.
Metal plates and metal sheets and metal tubing stock. Rheinische Röhrenwerke Aktiengesellschaft. 580,558, Sept. 29; Serial No. 635,324, published June 30, 1953.
Metallic wire and stripping, Pre-coated. Kenmore Metals Corporation. 580,481, Sept. 29; Serial No. 622,260, published June 30, 1953.

CLASS 15

Grease, Lubricating. Tide Water Associated Oil Company. 580,543, Sept. 29; Serial No. 633,013, published June 23, 1953.
Lubricant, Solid. The AP Parts Corporation. 580,557, Sept. 29; Serial No. 634,956, published June 23, 1953.
Oils and greases, Lubricating. Macmillan Petroleum Corporation. 580,563, Sept. 29; Serial No. 635,879, published June 23, 1953.
Oils, Lubricant. The White & Bagley Company. 304,246, renewed June 27, 1953. O. G. Sept. 29.
Petroleum wax composition. Moore & Munger. 580,536, Sept. 29; Serial No. 631,214, published May 19, 1953.

CLASS 16

Paint, Plastic texture. The Reardon Company. 580,495, Sept. 29; Serial No. 625,296, published July 29, 1952.
Paint, Ready-Mixed. Inter-Coastal Paint Corporation. 580,608, Sept. 29; Serial No. 640,282, published June 30, 1953.
Paints. W. P. Fuller & Co. 400,063, Feb. 16, 1943. Restricted. O. G. Sept. 29.
Paints, Base, prepared paints, lacquers, etc. Reeder, Oliver, & Son, Incorporated. 580,423, Sept. 29; Serial No. 589,334, published July 8, 1952.

CLASS 17

Cigars. E. Regensburg & Sons. 580,611, Sept. 29; Serial No. 640,759, published June 30, 1953.
Cigars and cheroots. The S. Frieder & Sons Company. 580,416, Sept. 29; Serial No. 569,515, published June 30, 1953.
Tobacco, Manufactured. P. J. Carroll & Co. Limited. 580,519, Sept. 29; Serial No. 629,087, published June 30, 1953.

CLASS 18

Analeptic tablet. The E. L. Patch Company. 580,480, Sept. 29; Serial No. 621,899, published June 23, 1953.
Antacid, sedative and anti-spasmodic preparation. The Wander Company. 580,534, Sept. 29; Serial No. 630,741, published June 23, 1953.
Antibacterial preparation. E. R. Squibb & Sons. 580,549, Sept. 29; Serial No. 633,592, published June 23, 1953.
Antibiotic derivative. Bristol Laboratories Inc. 580,500–1, Sept. 29; Serial No. 626,300–1, published June 23, 1953.
Antibiotic feed supplements. Schenley Laboratories, Inc. 580,584, Sept. 29; Serial No. 637,403, published June 30, 1953.
Antibiotic preparation. The Distillers Company (Biochemicals) Limited. 580,447, Sept. 29; Serial No. 612,898, published June 23, 1953.
Antibiotic preparation. Doho Chemical Corporation. 580,468, Sept. 29; Serial No. 618,520, published June 30, 1953.
Antibiotic preparation. The Wander Company. 580,516, Sept. 29; Serial No. 628,591, published June 23, 1953.
Anti-heparin compound. Abbott Laboratories. 580,571, Sept. 29; Serial No. 636,759, published June 23, 1953.
Antiseptic emulsion. M. Oppenheim. 580,445, Sept. 29; Serial No. 612,029, published June 23, 1953.
Antitubercular compositions. Carlo Erba S. P. A. 580,579, Sept. 29; Serial No. 637,033, published June 30, 1953.
Germicidal, deodorant and disinfectant composition. Fairfield Laboratories, Inc. 580,506, Sept. 29; Serial No. 627,054, published June 23, 1953.
Liquid mineral feed supplement. Viking Laboratories, Inc. 580,442, Sept. 29; Serial No. 609,824, published June 30, 1953.
Liver extract, insulin, spleen preparation. J. H. Isenstead 580,559, Sept. 29; Serial No. 635,420, published June 30, 1953.
Livestock and poultry feed balancer or supplement. Farmcraft Feeds, Inc. 580,513, Sept. 29; Serial No. 627,934, published June 23, 1953.
Medical preparation. R. M. Sherman. 580,467, Sept. 29; Serial No. 618,073, published June 23, 1953.
Medical preparations, emulsion of refined petroleum used as a mild laxative, etc. Angier Chemical Company. 580,424, Sept. 29; Serial No. 591,762, published June 30, 1953.
Medicated foot cream, and lotion. Larson Laboratories, Inc. 580,537, Sept. 29; Serial No. 631,355, published June 23, 1953.
Medicated preparation. The Silf Co. Limited. 580,496, Sept. 29; Serial No. 625,301, published June 23, 1953.
Medicinal preparation. Chicago Pharmacal Company. 580,568, Sept. 29; Serial No. 636,687, published June 30, 1953.
Medicinal preparation. Chicago Pharmacal Company. 580,576, Sept. 29; Serial No. 636,922, published June 23, 1953.
Medicinal preparation. Paul B. Elder Company. 580,514, Sept 29; Serial No. 627,998, published Mar. 17, 1953.
Medicinal preparation. Eli Lilly and Company. 580,580, Sept. 29; Serial No. 637,038, published June 30, 1953.
Medicinal preparation. Eli Lilly and Company. 580,601, Sept. 29; Serial No. 639,320, published June 30, 1953.
Medicine or pharmaceutical preparation. Ernst Bischoff Co., Incorporated. 580,578, Sept. 29; Serial No. 637,032, published June 30, 1953.
Mineral ingredient for mixing with dairy feeds, etc. The Ubiko Milling Company. 304,982, renewed July 25, 1953. O. G. Sept. 29.
Multiple vitamin preparation. Bernard Pharmacal Co., Inc. 580,625, Sept. 29; Serial No. 610,615.
Ointment. P. Adamopoulos. 436,985, Mar. 2, 1948. Republished Sept. 29.
Pharmaceutical ointment. Marcelle Cosmetics, Inc. 580,527, Sept. 29; Serial No. 629,741, published June 23, 1953.
Pharmaceutical preparation. Crestmont Laboratories, Inc. 580,464, Sept. 29; Serial No. 616,588, published June 23, 1853.
Preparation for rheumatism and rheumatoid affections, etc. The Upjohn Company. 92,378, re-renewed July 1, 1953. O. G. Sept. 29.
Preparation for the treatment of athlete's foot, ringworm, and other fungicidal infections. Red River Chemical Co. 580,591, Sept. 29; Serial No. 637,720, published June 23, 1953.
Preparation for treatment of and prophylaxis against infections. E. R. Squibb & Sons. 580,448, Sept. 29; Serial No. 613,146, published June 23, 1953.
Preparation for use in the treatment of diarrheas, etc. E. R. Squibb & Sons. 580,540, Sept. 29; Serial No. 632,450, published June 30, 1953.
Protein, fat, fibre, and ash mixture adapted as a food supplement. Feedstuffs Processing Company. 580,631, Sept. 29; Serial No. 626,938.
Vitamin and mineral tablets. S. O. Barnes & Son, Inc. 580,508, Sept. 29; Serial No. 627,314, published June 23, 1953.
Vitaminized mineral feed supplements. W. S. Givler. 580,532, Sept. 29; Serial No. 630,595, published June 23, 1953.

CLASS 19

Automobiles. Lancia & Co. 91,974, re-renewed June 10, 1953. O. G. Sept. 29.
Industrial wheels. Bronco Rubber Products Co. 580,462, Sept. 29; Serial No. 616,199, published June 30, 1953.
Motor-cars and automobiles. The Pierce-Arrow Motor Car Company. 92,710, re-renewed July 22, 1953. O. G. Sept. 29.

CLASS 21

Electric illumination control dimmers and switchboards. Ward Leonard Electric Company. 580,498, Sept. 29; Serial No. 625,555, published June 30, 1953.
Electric motors, Small direct current. Hansen Manufacturing Company, Incorporated. 580,533, Sept. 29; Serial No. 630,710, published July 7, 1953.
Electrical condensers and capacitors. The Magnavox Company. 306,179, renewed Sept. 12, 1953. O. G. Sept. 29.
Flash lights. Blake Manufacturing Co. 250,797, Dec. 18, 1928. Republished Sept. 29.
Grounding devices adapted to be attached to equipment for the prevention of shock. Walter G. Legge Company, Inc. 580,612, Sept. 29; Serial No. 640,795, published June 30, 1953.
Picture tubes, Cathode-ray. Thomas Electronics, Inc. 580,471, Sept. 29; Serial No. 619,554, published Apr. 8, 1952.

CLASS 22

Artificial bait. Brainerd Bait Co. 580,548, Sept. 29; Serial No. 633,529, published June 30, 1953.
Fishing reels. Shakespeare Company. 580,535, Sept. 29; Serial No. 631,069, published June 30, 1953.
Playing cards. The United States Playing Card Company. 580,646, Sept. 29; Serial No. 649,262.
Toy cradles. C. Arliss. 580,632, Sept. 29; Serial No. 627,731.
Toys, Stuffed. Character Novelty Co. 580,616, Sept. 29; Serial No. 641,831, published June 30, 1953.

CLASS 23

Backstands for use with buffing, polishing, and grinding equipment. Divine Brothers Company. 580,438, Sept. 29; Serial No. 607,895, published Mar. 3, 1953.
Barrel-fillers. Pennsylvania Flexible Metallic Tubing Co. 94,664, re-renewed Dec. 23, 1953. O. G. Sept. 29.

Belt driven, shallow and deep well, ejector or jet pumps. Woodmanse Mfg. Co. 580,609, Sept. 29; Serial No. 640,367, published June 16, 1953.
Bottom hinged buckets adapted to be suspended from a crane hook or other manoeuvering apparatus. Pittsburgh Lectromelt Furnace Corporation. 580,507, Sept. 29; Serial No. 627,221, published June 16, 1953.
Checkout counter with built-in motor and conveyor belt. Modern Village Stores, Inc. 580,515, Sept. 29; Serial No. 628,005, published June 16, 1953.
Chucks and parts thereof, and chuck key and chuck adaptor. Supreme Products, Inc. 580,484, Sept. 29; Serial No. 617,065, published June 16, 1953.
Duplicating machines and parts thereof. A. B. Dick Company. 306,272, renewed Sept. 12, 1953. O. G. Sept. 29.
Farm machinery. New Holland Machine Company. 580,420, Sept. 29; Serial No. 577,443, published Feb. 24, 1953.
Files. Abrasive Tools Limited. 580,463, Sept. 29; Serial No. 616,580, published Mar. 31, 1953.
Grain loaders, Mobile power-operated. Mayrath Machinery Co., Inc. 580,555, Sept. 29; Serial No. 634,600, published June 9, 1953.
Harvesters, Forage, forage blowers, bale brakers, etc. Fox River Tractor Co. 580,509, Sept. 29; Serial No. 627,266, published June 16, 1953.
Hitches employed for coupling a tractor to a cargo transporting wagon, Extensible. H. R. Forney. 580,450, Sept. 29; Serial No. 613,506, published June 16, 1953.
Kitchen scoop for serving food. Dispensers, Inc. 580,596, Sept. 29; Serial No. 639,025, published June 2, 1953.
Lift trucks, Power-operated. The Yale & Towne Manufacturing Company. 580,414, Sept. 29; Serial No. 557,644, published July 15, 1952.
Machine tool positioning mechanism. De Vlieg Machine Company. 580,440, Sept. 29; Serial No. 609,437, published Mar. 3, 1953.
Machine tools. N. V. Nederlandsche Machinefabriek "Artillerie Inrichtingen." 580,478, Sept. 29; Serial No. 621,082, published June 2, 1953.
Machines for providing an interrupted peripheral surface on cylindrical objects. Perfect Circle Corporation. 580,593, Sept. 29; Serial No. 638,155, published June 9, 1953.
Mine machinery, pottery machinery, railway equipment. The Nolan Company. 580,430, Sept. 29; Serial No. 609,043, published Mar. 10, 1953.
Pumps, Sump, coolant pumps, vacuum pumps, etc. V. R. Rogers. 580,412, Sept. 29; Serial No. 550,440, published June 16, 1953.
Radiators for internal combustion engines. Yates-American Machine Company. 580,476, Sept. 29; Serial No. 620,700, published June 30, 1953.
Razors and blades, Safety. The Barbasol Company. 304,988, renewed July 25, 1953. O. G. Sept. 29.
Razors and blades, Safety. The Barbasol Company. 306,904, renewed Oct. 3, 1953. O. G. Sept. 29.
Roller mill. S. S. Johnson. 580,492, Sept. 29; Serial No. 624,952, published Mar. 31, 1953.
Shallow and deep well reciprocating pumps, jet pumps, cellar pumps, etc. A. Y. McDonald Mfg. Co. 580,479, Sept. 29; Serial No. 621,274, published June 9, 1953.
Skid supported hopper. Honan-Crane Corporation. 580,434, Sept. 29; Serial No. 606,529, published June 2, 1953.
Stainless steel flatware. The International Silver Company. 580,531, Sept. 29; Serial No. 630,134, published June 9, 1953.
Tiering machines, Portable, and lift trucks. Revolvator Company. 580,566, Sept. 29; Serial No. 636,497, published June 2, 1953.
Tire buffing machines and rims therefor, etc. Paul E. Hawkinson Company. 580,492, Sept. 29; Serial No. 622,824, published June 2, 1953.
Tumbling machines and parts thereof. The Grav-I-Flo Corporation. 580,446, Sept. 29; Serial No. 612,321, published June 2, 1953.
Unitary equipment consisting of flocculent storage tanks, retention tanks, etc. Bulkley, Dunton Pulp Company, Inc. 580,455, Sept. 29; Serial No. 614,131, published Mar. 10, 1953.
Vehicle mounted hydraulically operated extensible and adjustable telescopic mast. Capital Industries, Inc. 580,503, Sept. 29; Serial No. 626,559, published June 9, 1953.
Vending machines, Coin controlled, electrically operated. Chef-Way, Inc. 580,429, Sept. 29; Serial No. 603,662, published Feb. 24, 1953.
Vending machines, Coin controlled, electrically operated. Chef-Way, Inc. 580,430, Sept. 29; Serial No. 603,664, published Feb. 24, 1953.
Woodworking machinery. Dependable Machine Company. 580,553, Sept. 29; Serial No. 634,524, published June 16, 1953.

CLASS 24

Cotton padding for laundry machinery rolls. Tingue, Brown & Co. 580,483, Sept. 29; Serial No. 622,512, published June 16, 1953.
Ironing board pads and ironing board pad covers. Pressing Supply Company. 580,489, Sept. 29; Serial No. 624,490, published June 30, 1953.
Laundry machinery. American Machine and Metals, Inc. 580,511, Sept. 29; Serial No. 627,660, published June 30, 1953.

CLASS 25

Locks and keys. General Motors Corporation. 580,620, Sept. 29; Serial No. 643,152, published June 23, 1953.
Locks and metallic cabinets for use as safes. Fiat Società per Azioni. 580,544, Sept. 29; Serial No. 633,046, published June 16, 1953.

CLASS 26

Electric flow meters and pressure or rate of flow controllers, and telemeters. Builders' Iron Foundry. 306,069, renewed Sept. 5, 1953. O. G. Sept. 29.

CLASS 29

Brushes, Paint. J. C. Wells. 580,547, Sept. 29; Serial No. 633,440, published June 30, 1953.

CLASS 32

Articles for interior decorating—namely screens, etc. Laminated Screens, Inc. 580,546, Sept. 29; Serial No. 633,310, published June 16, 1953.
Bedroom suites and open-stock pieces therefor, dining room suites and open-stock pieces therefor, etc. Miller and Rhoads, Incorporated. 580,484, Sept. 29; Serial No. 623,112, published June 30, 1953.
Chests of drawers, wardrobes, tables, and chairs. Thomas Jefferson Memorial Foundation, Incorporated. 580,592, Sept. 29; Serial No. 626,329, published June 30, 1953.
Display counters, self-service food counters and combination display and self-service food counters. Sherer-Gillett Company. 580,542, Sept. 29; Serial No. 632,696, published June 30, 1953.
Filing cases. Convoy, Incorporated. 580,610, Sept. 29; Serial No. 640,613, published June 30, 1953.
Furniture, Garden and patio. E. A. Vandy. 580,581, Sept. 29; Serial No. 635,550, published Apr. 14, 1953.
Venetian blinds. Acme Venetian Blind Mfg. Co., Inc. 580,422, Sept. 29; Serial No. 586,612, published June 30, 1953.

CLASS 34

Diffuser plates for air humidifying apparatus. Skuttle Manufacturing Company. 400,249, Sept. 26, 1944. Republished Sept. 29.

CLASS 35

Belting, Leather. Baldwin Belting, Inc. 580,637, Sept. 29; Serial No. 631,038.
Brake linings and transmission linings. The S. K. Wellman Company. 306,579, renewed Sept. 26, 1953. O. G. Sept. 29.
Tires, Pneumatic automobile. United States Rubber Company. 580,633, Sept. 29; Serial No. 628,015.

CLASS 36

Phonograph records, Children's grooved. The Record Guild of America Inc. 580,592, Sept. 29; Serial No. 637,792, published July 14, 1953.

CLASS 37

Paper, Poster, and construction paper. Bermingham & Prosser Co. 383,786, Dec. 24, 1940. Republished Sept. 29.
Papers, Book and printing. Bermingham & Prosser Company. 209,179, Feb. 16, 1926. Republished Sept. 29.
Pens, Fountain, mechanical pencils and desk sets. The Parker Pen Company. 306,418, renewed Dec. 5, 1953. O. G. Sept. 29.

CLASS 38

Books including plates and instruction sheets, Text. C. Howard Hunt Pen Co. 307,572, renewed Oct. 31, 1953. O. G. Sept. 29.
Periodical, Monthly. Esso Incorporated. 308,422, renewed Dec. 5, 1953. O. G. Sept. 29.
Prints. Kalle & Co. Aktiengesellschaft. 305,12a, renewed Aug. 1, 1953. O. G. Sept. 29.

CLASS 39

Blouses, skirts, and sport shorts, Ladies'. Henro Blouse Corporation. 580,617, Sept. 29; Serial No. 641,925, published June 30, 1953.
Blouses, Women's and children's. Star Knitting Company. 580,491, Sept. 29; Serial No. 624,764, published June 30, 1953.
Boots and shoes. Freeman Shoe Corporation. 305,659, renewed Aug. 22, 1953. O. G. Sept. 29.
Brassières, ladies' foundation under garments, and ladies' bathing suits. The La Resista Corset Company. 580,618, Sept. 29; Serial No. 642,143, published June 30, 1953.
Corsets, gloves, pajamas, etc. Bonwit Teller, Inc. 580,575, Sept. 29; Serial No. 636,920, published June 30, 1953.
Dresses. L. S. Blaustein. 580,606, Sept. 29; Serial No. 640,008, published June 30, 1953.
Dresses, blouses, skirts, and jackets, Women's and children's. Texas Dress Corporation. 580,590, Sept. 29; Serial No. 637,670, published June 30, 1953.

Dresses, Children's, baby boy suits, playsuits, etc. Peter Pelly Togs, Inc. 308,799, renewed Dec. 19, 1953. O. G. Sept. 29.
Dresses, Ladies'. Feinrider Bros. 580,607, Sept. 29; Serial No. 640,201, published June 30, 1953.
Dresses, petticoats, underwear, etc., Women's and misses'. Arkay Junior Frocks, Inc. 580,572, Sept. 29; Serial No. 636,871, published June 30, 1953.
Fabric or fabrics cut in predetermined forms for arrangement in accordance with instructions to form casual and beach jackets and sport shirts, etc. James H. Dunham & Co. 580,486, Sept. 29; Serial No. 623,504, published June 30, 1953.
Hosiery, Women's. I. Glaser. 304,361, renewed July 4, 1953. O. G. Sept. 29.
Pajamas and underwear. Excelsior Varsity Underwear Corporation. 308,307, renewed Nov. 28, 1953. O. G. Sept. 29.
Panties, Women's. I. B. Kleinert Rubber Company. 580,449, Sept. 29; Serial No. 613,374, published June 30, 1953.
Piece goods, namely diapers, Cotton. Riegel Textile Corporation. 308,732, renewed Dec. 19, 1953. O. G. Sept. 29.
Robes, housecoats, pajamas, and negligees. Lombstein-Saqqal, Inc. 580,550, Sept. 29; Serial No. 633,848, published June 30, 1953.
Shoes. Connolly Shoe Co. 308,709, renewed Dec. 19, 1953. O. G. Sept. 29.
Skirts. Summit Sportswear Company. 580,590, Sept. 29; Serial No. 639,200, published June 30, 1953.
Slips, Ladies' and misses'. M. Brown. 580,615, Sept. 29; Serial No. 641,709, published June 30, 1953.
Slips, petticoats and nightgowns, Women's and misses'. Roth Silk Undergarment Co., Inc. 580,570, Sept. 29; Serial No. 636,739, published June 30, 1953.

CLASS 40

Artificial flowers and feathers. Flower Fame. 580,469, Sept. 29; Serial No. 618,788, published June 30, 1953.
Dress shields. I. B. Kleinert Rubber Company. 307,122, renewed Oct. 17, 1953. O. G. Sept. 29.
Dress shields. I. B. Kleinert Rubber Company. 580,604, Sept. 29; Serial No. 639,887, published June 30, 1953.
Dress shields. I. B. Kleinert Rubber Company. 580,605, Sept. 29; Serial No. 640,000, published June 30, 1953.
Needles, Hand sewing. L. Lammertz. 580,433, Sept. 29; Serial No. 606,405, published June 30, 1953.
Non-electrical hair curlers. Vonett Sales Corporation. 580,497, Sept. 29; Serial No. 625,305, published June 30, 1953.

CLASS 42

Cotton shirtings, and cotton textile fabrics, Men's. Alfred L. Helwith & Co., Inc. 306,755, renewed Aug. 22, 1953. O. G. Sept. 29.
Cotton shirtings and cotton textile fabrics, Men's. Alfred L. Helwith & Co., Inc. 307,963, renewed Nov. 14, 1953. O. G. Sept. 29.
Cotton shirtings, and cotton textile fabrics, Men's. Alfred L. Helwith & Co., Inc. 308,793, renewed Dec. 19, 1953. O. G. Sept. 29.
Draperies, hangings, and woven fabrics. H. B. Wiggin's Sons Company. 55,129, Aug. 7, 1906. Republished Sept. 29.
Fabrics, Showerproof textile. J. Mandleberg & Company, Limited. 305,657, renewed Aug. 22, 1953. O. G. Sept. 29.
Fabrics, Textile. Hafner Associates, Inc. 417,162, Oct. 16, 1945. Republished Sept. 29.
Fabrics, Water-proofed textile. J. Mandleberg & Company, Limited. 304,987, renewed July 25, 1953. O. G. Sept. 29.
Piece goods, Cotton. White Brothers, Inc. 580,538, Sept. 29; Serial No. 631,705, published June 30, 1953.
Piece goods, Cotton, and fabricated articles. Riegel Textile Corporation. 308,802, renewed Dec. 19, 1953. O. G. Sept. 29.
Piece goods, Woolen. Botany Worsted Mills. 246,900, June 8, 1937. Amended. O. G. Sept. 29.
Towels, Bath, bath mats, dish towels, etc. Stern Brothers. 580,603, Sept. 29; Serial No. 639,523, published June 30, 1953.
Tufted pile carpeting. E. T. Barwick. 580,614, Sept. 29; Serial No. 641,265, published June 30, 1953.

CLASS 43

Thread and yarn. S. H. Kress and Company. 580,619, Sept. 29; Serial No. 642,445, published June 30, 1953.
Thread, Sewing. Threads, Incorporated. 316,557, Aug. 28, 1934. Republished Sept. 29.
Thread, Sewing. Threads, Incorporated. 316,822, Sept. 4, 1934. Republished Sept. 29.
Thread, Sewing. Threads, Incorporated. 326,105, July 16, 1935. Republished Sept. 29.
Yarns, Cords. John Dritz & Sons. 580,551, Sept. 29; Serial No. 633,971, published Feb. 17, 1953.

CLASS 44

Apparatus for use in the transfusion of blood, etc. Don Baxter, Inc. 580,474, Sept. 29; Serial No. 620,564, published June 30, 1953.
Closure-equipped bottles for use in the transfusion of blood, etc. Baxter Laboratories, Inc. 580,475, Sept. 29; Serial No. 620,576, published June 30, 1953.
Inhaler for use with anesthetics. Ayerst, McKenna & Harrison Limited. 580,539, Sept. 29; Serial No. 632,284, published June 30, 1953.
Respirators and gas masks. H. S. Cover. 308,567, renewed Dec. 12, 1953. O. G. Sept. 29.

CLASS 45

Beverages, Bottled carbonated soft drink. General Bottlers, Inc. 580,425, Sept. 29; Serial No. 607,203, published June 30, 1953.
Beverages, Grape-flavored carbonated non-alcoholic non-cereal maltless. Seminole Flavor Company. 580,419, Sept. 29; Serial No. 576,300, published June 16, 1953.
Beverages, Orange-flavored carbonated non-alcoholic non-cereal maltless. Seminole Flavor Company. 580,418, Sept. 29; Serial No. 576,299, published June 16, 1953.
Concentrates used in the preparation of maltless soft drinks. The Delaware Punch Company of America. 580,577, Sept. 29; Serial No. 636,971, published June 16, 1953.
Fruit and imitation fruit concentrates and bases for making non-alcoholic maltless soft drinks and punch. R. White. 580,585, Sept. 29; Serial No. 637,412, published June 16, 1953.
Grape juice. Ellenz Brothers. 580,541, Sept. 29; Serial No. 632,583, published June 16, 1953.
Soft drink. Non-caloric carbonated maltless. Newport Mineral Water Co., Inc. 580,582, Sept. 29; Serial No. 637,136, published June 16, 1953.
Soft drinks, Non-alcoholic, maltless grape-flavored. Petermann Co. 580,580, Sept. 29; Serial No. 636,731, published June 16, 1953.

CLASS 46

Candy. Childs Company. 580,425-7, Sept. 29; Serial No. 607,162-4, published Nov. 6, 1951.
Candy. Stoppers, Inc. 580,624, Sept. 29; Serial No. 602,300.
Cheese, Thousand Island dressing, mayonnaise, etc. The Capital City Products Company. 308,628, Dec. 12, 1953. Amended. O. G. Sept. 29.
Coffee, Blended. William S. Scull Company. 94,207, re-renewed Nov. 11, 1953. O. G. Sept. 29.
Doughnuts and doughnut flour. H. A. Hubbs. 309,368, renewed Jan. 9, 1954. O. G. Sept. 29.
Flavoring for cake icing, Combination of. S. Gumpert & Co. 93,844, re-renewed Oct. 21, 1953. O. G. Sept. 29.
Flour, Wheat. The Colorado Milling & Elevator Co. 580,412, Sept. 29; Serial No. 587,504, published June 30, 1953.
Frankfurters. Hygrade Food Products Corporation. 580,628, Sept. 29; Serial No. 616,101.
Fruits, Fresh citrus. Santa Ana-Tustin Mutual Citrus Association. 308,542, renewed Dec. 12, 1953. O. G. Sept. 29.
Gelatin. Swift and Company. 305,471, renewed Aug. 15, 1953. O. G. Sept. 29.
Hams. Kray Packing Company. 580,427, Sept. 29; Serial No. 597,766, published June 22, 1953.
Ice cream, frappes, stuffed dates, figs, etc. Abraham & Straus, Inc. 308,060, renewed Nov. 21, 1953. O. G. Sept. 29.
Limes, avocados and mangos, Fresh. Brooks, Inc. 580,587, Sept. 29; Serial No. 637,476, published June 2, 1953.
Limes, avocados and mangos, Fresh. Brooks, Inc. 580,588, Sept. 29; Serial No. 637,477, published May 26, 1953.
Meal or flour, Compound. E. G. Jackson. 94,454, re-renewed Dec. 9, 1953. O. G. Sept. 29.
Nuts. Wm. A. Camp Co., Inc. 583,014, Nov. 7, 1950. Amended. O. G. Sept. 29.
Nuts, Salted. Federal Nut Co., Inc. 580,454, Sept. 29; Serial No. 614,044, published June 22, 1953.
Oranges, Fresh, fresh orange juice, canned single strength orange juice, etc. R. M. Townsend. 580,645, Sept. 29; Serial No. 644,473.
Pop-corn seasoning. L. Peverada. 580,421, Sept. 29; Serial No. 603,938, published June 23, 1953.
Potatoes. Steno Potato Washer. 580,639, Sept. 29; Serial No. 640,415.
Salad dressing and salad spread. Kraft-Phenix Cheese Corporation. 308,280, renewed Nov. 28, 1953. O. G. Sept. 29.
Tea and seaweed, Mixed dried. R. N. Takaki. 580,644, Sept. 29; Serial No. 642,220.

CLASS 47

Wines. The Globe Distributing Company. 580,452, Sept. 29; Serial No. 613,911, published June 16, 1953.
Wines. The Madera Bonded Wine and Liquor Company. 580,536, Sept. 29; Serial No. 634,744, published June 30, 1953.
Wines. Societe Vinicole de Pauillac (Societe Anonyme). 580,517, Sept. 29; Serial No. 628,783, published June 16, 1953.
Wines. Standard Food Products Corp. 580,456, Sept. 29; Serial No. 614,795, published June 30, 1953.

CLASS 48

Beer and ale. Horlacher Brewing Company. 501,443, Aug. 10, 1948. Amended. O. G. Sept. 29.

Malt beverages. T. B. Hall & Co., Limited. 306,513, renewed Sept. 19, 1953. O. G. Sept. 29.
Malt products. Sterling Products Company. 306,673, renewed Sept. 26, 1953. O. G. Sept. 29.

CLASS 49

Alcohol beverage. W. Sewal. 580,565, Sept. 29; Serial No. 636,810, published June 16, 1953.
Alcoholic liqueurs. Les Heritiers de Marie Brizard & Roger, Achard, Giotin & Cie. 580,445, Sept. 29; Serial No. 616,718, published June 30, 1953.
Brandy. Standard Food Products Corp. 580,421, Sept. 29; Serial No. 583,176, published June 16, 1953.
Gin, anisette, and brandy. College Inn Food Products Company. 580,458, Sept. 29; Serial No. 615,15", published June 16, 1953.
Rum. Alfred Lamb & Son Limited. 580,457, Sept. 29; Serial No. 615,124, published June 16, 1953.
Whiskey. Austin, Nichols & Co., Incorporated. 580,574, Sept. 29; Serial No. 636,916, published June 30, 1953.
Whiskey. The Foster Trading Corporation. 580,589, Sept. 29; Serial No. 637,650, published June 16, 1953.
Whisky. Lang Brothers Limited. 307,871, renewed Oct. 24, 1953. O. G. Sept. 29.
Whisky. Lang Brothers Limited. 308,126, renewed Nov. 21, 1953. O. G. Sept. 29.
Whisky, gin, brandy and rum. K. K. Ketobunkiya. 305,350, renewed Aug. 15, 1953. O. G. Sept. 29.
Whisky, Scotch. Benmore Distilleries Limited. 580,545, Sept. 29; Serial No. 632,295, published June 16, 1953.

CLASS 50

Boards having simulated road intersections thereon, etc. T. S. Reed. 580,638, Sept. 29; Serial No. 633,580.
Chalk boards. The Enamel Products Company. 580,613, Sept. 29; Serial No. 641,032, published June 16, 1953.
Figurines and statuettes. Ardalt Inc. 580,488, Sept. 29; Serial No. 624,006, published June 30, 1953.

CLASS 51

Estrogenic hormone cream and oil and estrogenic hormone hand lotion, etc. Helena Rubinstein, Inc. 580,554, Sept. 29; Serial No. 634,540, published June 23, 1953.
Hair conditioner. Helene Curtis Industries, Inc. 580,485, Sept. 29; Serial No. 622,340, published June 30, 1953.
Hair tinting and coloring preparations. Clairol Incorporated. 580,552, Sept. 29; Serial No. 634,237, published June 23, 1953.
Lotion, Permanent wave. J. B. Hockensmith. 580,520, Sept. 29; Serial No. 629,109, published June 23, 1953.
Medicinal and toilet preparations. Plough, Inc. 308,015, renewed Nov. 14, 1953. O. G. Sept. 29.
Natural and synthetic essential oils and aromatic chemicals used as a base or an ingredient in perfumery. Firmenich Incorporated. 580,586, Sept. 29; Serial No. 637,433, published June 23, 1953.
Perfumes. Faberge, Inc. 580,562, Sept. 29; Serial No. 635,753, published June 30, 1953.
Perfumes. Maurice Rentner, Inc. 580,467, Sept. 29; Serial No. 623,850, published June 30, 1953.
Perfumes, colognes, toilet cream, etc. Eau de Cologne-fabrik J. C. Beldoot N. V. 580,443-4, Sept. 29; Serial Nos. 611,604-5, published June 30, 1953.
Preparation for dyeing the hair. Inecto Limited. 93,179, re-renewed Aug. 26, 1953. O. G. Sept. 29.
Refined Irish moss extractives used in toothpaste, and refined red seaweed extractives. Seaplant Chemical Corporation. 580,528, Sept. 29; Serial No. 630,035, published June 23, 1953.
Toilet preparations. Bode Drug Company, Inc. 305,445, renewed Aug. 15, 1953. O. G. Sept. 29.
Toothpaste. Viogen (Australasia) Proprietary Limited. 580,428, Sept. 29; Serial No. 600,869, published June 23, 1953.

CLASS 52

Cleaner, Bowl, and drain opener. Wyandotte Chemicals Corporation. 580,422, Sept. 29; Serial No. 604,461, published June 23, 1953.
Cleaning cream, Hand. Abasco Chemical Works. 580,499, Sept. 29; Serial No. 626,295, published June 23, 1953.
Detergent, Sterilizing. M. Modrak. 580,472, Sept. 29; Serial No. 619,581, published June 23, 1953.
Granular compound which removes grease and oil from floors. The Denison Manufacturing Company. 580,529-30, Sept. 29; Serial Nos. 630,125-6, published June 23, 1953.
Liquid for cleaning glass optical surfaces. Pacific Universal Products Corporation. 580,564, Sept. 29; Serial No. 634,240, published June 23, 1953.
Shampoo, Baby oil. "4711" Limited. 580,567, Sept. 29; Serial No. 636,506, published June 23, 1953.
Soap, Hand, face soap, toilet soap, etc. Arkwright, Incorporated. 580,441, Sept. 29; Serial No. 609,859, published June 23, 1953.

CLASS 101

Preparing and printing advertising copy. Harrison Art Advertising, Inc. 580,621, Sept. 29; Serial No. 613,669, published June 30, 1953.

CLASS 102

Banking services. International Banking Corporation. 580,623, Sept. 29; Serial No. 632,376, published June 30, 1953.
Financing automobile dealers' time sales, etc., and making loans. Western Acceptance Corporation. 580,622, Sept. 29; Serial No. 619,556, published June 30, 1953.

CLASS 103

Dry cleaning services. P. Reichman. 580,647, Sept. 29; Serial No. 641,972.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 29TH DAY OF SEPTEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Barrott, William E., Jr., and W. E. Barrott, Sr., Aurora, Ind. Casket carrying truck. Re. 23,718, Sept. 29.

Barrott, William E., Sr.: *See*—
Barrott, William E., Jr., and W. E. Barrott, Sr.

Durdin, Augustus C., III, Rockford, Ill., assignor to Graver Tank & Mfg. Co., Inc. Liquid treatment tank with a solids impeller means having a normally submerged drivewheel. Re. 23,714, Sept. 29.

Gerity-Michigan Corporation, assignee: *See*—
Kinker, Clarence C., and Murtagh.

Graver Tank & Mfg. Co., Inc., assignee: *See*—
Durdin, Augustus C., III.

Kinker, Clarence C., Manitou Beach, Mich., and J. J. Murtagh, Toledo, Ohio, assignors to Gerity-Michigan Corporation, Adrian, Mich. Burnishing machine and method. Re. 23,715, Sept. 29.

Loper, George B., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Electron beam vacuum tube. Re. 23,716, Sept. 29.

Murtagh, James J.: *See*—
Kinker, Clarence C., and Murtagh.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Loper, George B.

Titcomb, Albert S., Hamden, Conn. Abrasive block or segment. Re. 23,717, Sept. 29.

LIST OF PLANT PATENTEES

Howard, Arthur P., Sierra Madre, assignor to Howard & Smith, Montebello, Calif. Rose plant. 1,218, Sept. 29.

Howard & Smith, assignee: *See*—
Howard, Arthur P.

LIST OF DESIGN PATENTEES

Aberman, Sheldon J., Miami Beach, Fla. Handbag. 170,490, Sept. 29.

Aberman, Sheldon J., Miami, Beach, Fla. Handbag. 170,491, Sept. 29.

American Steel Foundries, assignee: *See*—
Sedwick, Robert K.

Black, Edward S., Chicago, Ill. Package dispenser. 170,492, Sept. 29.

Brush, Gerome, Lincoln, Mass. Andiron front. 170,493, Sept. 29.

Cleveland Instrument Company, assignee: *See*—
Roeger, Richard E.

Consolidated Engineering Corporation, assignee: *See*—
Walsh, Frank T., and Heath.

Darroch, Eunice B., Livingston, Mont. Toy figure. 170,494, Sept. 29.

Desco Shoe Corp., assignee: *See*—
Diamant, Fred J.

Dexter-Mahnke, Inc., assignee: *See*—
Mecus, Edward E.

Diamant, Fred J., New York, assignor to Desco Shoe Corp., Long Island City, N. Y. Narrow embroidered trimming or the like. 170,495, Sept. 29.

Egan, Philip S., Evanston, assignor to Sears, Roebuck and Co., Chicago, Ill. Air conditioner casing. 170,496, Sept. 29.

Elfman, Ernest W., New York, N. Y. Collapsible valet stand. 170,497, Sept. 29.

Feinberg, Theodore L., assignor to J. & S. Manufacturing Co., Chicago, Ill. Window shade combined guard and handle. 170,498, Sept. 29.

Fischer, R. A., & Co., assignee: *See*—
Greene, Harry R.

Gloeckler, Hugo, Flushing, N. Y. Combination cold and hot pack. 170,499, Sept. 29.

Gossard, H. W., Co., The, assignee. *See*—
Peck, Mary F.

Greene, Harry R., Pasadena, assignor to R. A. Fischer & Co., Glendale, Calif. Vibrator. 170,500, Sept. 29.

Hare, Bert V., Wenatchee, Wash. Cribbage board. 170,501, Sept. 29.

Heath, Roy T.: *See*—
Walsh, Frank T., and Heath.

Hy-G Products Co., assignee: *See*—
Kayser, Ralph W.

J. & S. Manufacturing Co., assignee: *See*—
Feinberg, Theodore L.

Kayser, Ralph W., Beverly Hills, assignor to Hy-G Products Co., Los Angeles, Calif. Comedy figure. 170,502, Sept. 29.

Lawner, Irving, East Rockaway, and J. Lipman, Kew Gardens, N. Y. Shuttlecock. 170,503, Sept. 29.

Lee, Edward B., assignor of one-half to M. Marks, Chicago, Ill. Combined memo pad and pencil holder. 170,504, Sept. 29.

Lipman, Joseph: *See*—
Lawner, Irving, and Lipman.

Littlejohn, William C., Los Angeles, assignor to Regis Plastics Corporation, Beverly Hills, Calif. Toy savings bank or similar article. 170,505, Sept. 29.

Livermont, Frank W., Duarte, Calif. Torque wrench. 170,506, Sept. 29.

Mecus, Edward E., assignor to Dexter-Mahnke, Inc., Milwaukee, Wis. Shadow box. 170,507, Sept. 29.

Morton, Marks, assignee: *See*—
Lee, Edward B.

Nisenson, Jules, Croton-on-Hudson, N. Y. Barbecue or similar article. 170,508, Sept. 29.

Peck, Mary F., Evanston, assignor to The H. W. Gossard Co., Chicago, Ill. Halter brassière. 170,509, Sept. 29.

Popeil, Samuel J., Chicago, Ill. Coffee maker. 170,510, Sept. 29.

Regis Plastics Corporation, assignee: *See*—
Littlejohn, William C.

Roeger, Richard E., Mayfield Heights, Ohio, assignor to Cleveland Instrument Company. Electronic comparator or the like. 170,511, Sept. 29.

Sears, Roebuck and Co., assignee: *See*—
Egan, Philip S.

Sedgwick, Robert K., Cincinnati, Ohio, assignor to American Steel Foundries, Chicago, Ill. Hydraulic press. 170,512, Sept. 29.

Simon, Henriette, New York, N. Y. Shoe or the like. 170,513, Sept. 29.

Walsh, Frank T., Pasadena, and R. T. Heath, Temple City, assignors to Consolidated Engineering Corporation, Pasadena, Calif. Galvanometer. 170,514, Sept. 29.

White, Fred W., Cheboygan, Mich. Wall plaque. 170,515, Sept. 29.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 29TH DAY OF SEPTEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aannerud, Sigurd A., Thamshaven, Norway, assignor, by mesne assignments, to Pyror Limited, Pembroke, Bermuda. Total treatment of copper-containing iron pyrites. 2,653,905, Sept. 29.

Abdo, Joseph T., Robbinsdale, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electric motor laminated stator construction. 2,654,039, Sept. 29.

Abrams, Howard, assignor to Curtis Industries, Inc., Cleveland, Ohio. Bimetallic key blank. 2,653,492, Sept. 29.

Adams, Arthur R., Glendale, E. D. Grizzard, and P. C. Cady, Los Angeles, assignors to Adams Rite Manufacturing Company, Glendale, Calif. Lock housing. 2,653,843, Sept. 29.

Adams, Bruce P., Wilmette, assignor to Pelouze Manufacturing Co., Evanston, Ill. Dial-type scale. 2,653,565, Sept. 29.

Adams Rite Manufacturing Company, assignee: *See*—
Adams, Arthur R., Grizzard, and Cady.

Adamy, Kurt, and W. Bätz, assignors to August Enders Aktiengesellschaft, Oberrahmede, Germany. Magnetic trouble lamp. 2,654,022, Sept. 29.

Aggson, Robert E., assignor of forty per cent to E. B. Cook, Azalea, Oreg. Dispensing container for tablets and the like. 2,653,706, Sept. 29.

Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Hanson, Helen L., and Lineweaver.
McKennon, Forrest L., and Lawrence.
Westergaard, Richard.

Ahlfors, Sten E. E., Hedemora, Sweden. Apparatus for wet-treating fibrous matters. 2,653,521, Sept. 29.

Air Filter Corporation, assignee: *See*—
Breckheimer, Raymond J.

Air Force, United States of America as represented by the Secretary of the, assignee: *See*—
Kamm, Wunibald I. E., Krautter, and Staiger.

Airs, Raymond S., Hooton, Wirral, and V. W. David, Chester, England, assignors to Shell Development Company, San Francisco, Calif. Extreme pressure lubricants. 2,653,910, Sept. 29.

Aladdin Industries, Incorporated, assignee: *See*—
Bramming, Carl.

Albrecht, Otto, Muenchenstein, and A. Maeder, assignors to Ciba Limited, Basel, Switzerland. Preparing tertiary acrylic acid esters from acetylene. 2,653,969, Sept. 29.

Alden, Carroll R., Detroit, Mich., assignor to American Bosch Corporation, Springfield, Mass. Fuel injection system. 2,653,584, Sept. 29.

Alexander, Helen, executrix: *See*—
Alexander, William H.

Alexander, William H., deceased, Brooklyn, N. Y.; H. Alexander, executrix of W. H. Alexander, Sr. Tool. 2,653,375, Sept. 29.

Alfried Krupp von Bohlen und Halbach, assignee: *See*—
Linke, Gerhard.

Allen, Edwin L., Iowa City, Iowa, and J. H. Allen, New Orleans, La. Artificial eye and implant. 2,653,327, Sept. 29.

Allen, Frank B.: *See*—
Cahusac, Clarence N., and Allen.

Allen, James H.: *See*—
Allen, Edwin L. and J. H.

Alley, Stephen E., Burnham Market, Norfolk, assignor to Rubber By-Products (Warwickshire) Ltd., Birmingham, England. Axle mounting of trailers and other vehicles. 2,653,828, Sept. 29.

Allied Chemical & Dye Corporation, assignee: *See*—
Fessler, William A.
Hanna, Delbert L., and Strom.

Allin, Frederick R., Euclid, and F. D. Wyss, Cleveland Heights, assignors to The Weatherhead Company, Cleveland, Ohio. Tractor-trailer brake proportioning combination. 2,653,680, Sept. 29.

Allis-Chalmers Manufacturing Company, assignee: *See*—
Goodwin, Edwin C.
Henter, Mathias.

Aluminum Company of America, assignee: *See*—
Brown, Ralph W.

Amco Development Company, assignee: *See*—
Macdonald, Herbert G.

American Bosch Corporation, assignee: *See*—
Alden, Carroll R.

American Brass Company, The, assignee: *See*—
Anderson, Howard F.

American Can Company, assignee: *See*—
Blakey, John G.
Huntar, Felix, and Frey.

American Cyanamid Company, assignee: *See*—
Cowen, Frank M., and Dixon.
Erickson, John G.
Fugate, Wesley O., and Lane.
Hultquist, Martin E., and Scholz.
Kaiser, Donald W.
Kaiser, Donald W., and Schaefer.
Kropa, Edward L., and Nyquist.
Mackay, Johnstone S.
MacLean, Alexander F.

American Electro Metal Corporation, assignee: *See*—
Seelig, Richard P.

American Optical Company, assignee: *See*—
Ellis, Charles A.
Martin, Joseph A.
Splaine, Edward M.

American Safety Razor Corporation, assignee: *See*—
Nelson, Edgar A.

American Viscose Corporation, assignee: *See*—
Wright, Henry H., and Harder.

Anchor Hocking Glass Corporation, assignee: *See*—
Brenner, Ralph F., and Dillard.

Anderson, Albert L., and J. D. Holmen, assignors, by mesne assignments, to Precision Cosmet Company, Inc., Minneapolis, Minn. Fabrication of artificial eyes. 2,653,328, Sept. 29.

Anderson, Carl G., Jr.: *See*—
Greeman, George A., and Anderson.

Anderson, Edward G., Philadelphia, Pa. Fixture for cutting circular pieces. 2,653,633, Sept. 29.

Anderson, Howard F., Torrington, Conn., assignor to The American Brass Company. Rolling mill and coiling apparatus. 2,653,496, Sept. 29.

Anderson, John E., Portland, assignor to United Aircraft Corporation, East Hartford, Conn. Hub mounted control. 2,653,668, Sept. 29.

Andrews, Albert, Fort Collins, Colo. Centrifugal control mechanism. 2,653,458, Sept. 29.

Angiolino, Guy, and J. Galuppo, Brooklyn, N. Y. Binding and stemming machine. 2,653,439, Sept. 29.

Anton, Nicholas, Brooklyn, N. Y. Electron tube heat-dissipating radiator and fabricating same. 2,653,800, Sept. 29.

Archer, Sydney, Albany, assignor to Sterling Drug Inc., New York, N. Y. 1-(di-n-butylaminoalkylamino)-4-methylthiaxanthones and synthesis thereof. 2,653,949, Sept. 29.

Archer, Sydney, Albany, assignor to Sterling Drug Inc., New York, N. Y. 1-(hydroxyalkylaminoalkylamino)-4-methylthiaxanthones and preparation thereof. 2,653,950, Sept. 29.

Archer, Sydney, Albany, assignor to Sterling Drug Inc., New York, N. Y. 1-(2-diethylaminoethylamino)-4,7-dimethylthiaxanthone, acid addition salts thereof and preparation of these compounds. 2,653,951, Sept. 29.

Arenco Aktiebolag, assignee: *See*—
Bergman, Lars.

Arkell and Smiths, assignee: *See*—
Robinson, Paul C.

Armitage, Joseph B., and T. F. Eserkaln, Wauwatosa, assignors to Kearney & Trecker Corporation, West Allis, Wis. Machine tool transmission and control mechanism. 2,653,519, Sept. 29.

Armstrong Siddeley Motors Limited, assignee: *See*—
Saxton, Edward S.

Army, United States of America as represented by the Secretary of the, assignee: *See*—
Drake, Nathan L., and Melamed.
Hager, Karl F., Lindenmayr, and Rosenthal.
Newman, Melvin S., and Wheatley.
Richter, Joseph.

Arnold, George B.: *See*—
Hess, Howard V., Arnold, and Drabkin.

Arnold, Paul F., Long Beach, Calif. Shoe polishing machine. 2,653,694, Sept. 29.

Arthur, James L., Indianapolis, Ind., assignor to General Motors Corporation, Detroit, Mich. Connector assembly. 2,654,078, Sept. 29.

Ash, Arthur B., and D. R. Jackson, assignors to Wyandotte Chemicals Corporation, Wyandotte, Mich. Producing lower alkyl-, carboxy methyl-, diethers of polyoxyalkylene glycols. 2,653,972, Sept. 29.

Atha, Clyde J., Cambridge, Ohio. Apparatus for removing the cut hair from hair clippers. 2,653,280, Sept. 29.

Auburn Fishhook Company, Inc., assignee: *See*—
Corbett, Herbert A.

Austin, James M., Old Westbury, N. Y. Razor and blade changer. 2,653,379, Sept. 29.

Automatic Electric Laboratories, Inc., assignee: *See*—
Lomax, Clarence E.
Tinsman, Jack R., Novy, and Thurlow.

Avco Manufacturing Corporation, assignee: *See*—
Boyle, Homer G.
Davidson, Lloyd H.

Ayerst, McKenna & Harrison, Limited, assignee: *See*—
Deans, Sidney A. V.

Azbe Corporation, assignee: *See*—
Azbe, Victor J.

Azbe, Victor J., Webster Groves, assignor to Azbe Corporation, Clayton, Mo. Kiln. 2,653,809, Sept. 29.

Baade, Henry, Cleveland, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Clothes-washing machine having a squeeze bag extractor. 2,653,465, Sept. 29.

Babcock & Wilcox Company, The, assignee: *See*—
Heller, Lewis W.

Baggott, Edmund W., Brooklyn, N. Y., assignor to Ideal Toy Corporation. Eye-set construction for dolls. 2,653,414, Sept. 29.

Bailey, Robert S., assignor to International Standard Electric Corporation, New York, N. Y. Traveling wave amplifier device. 2,654,004, Sept. 29.

Baker Oil Tools, Inc., assignee: *See*—
Baker, Reuben C.

Baker-Raulang Company, The, assignee: *See*—
Davies, Robert H., and Sirotak.

Baker, Reuben C., Coalinga, assignor to Baker Oil Tools, Inc., Vernon, Calif. Dump bailer and bridge plug. 2,653,666, Sept. 29.

Balch, Clyde W., assignor, by mesne assignments, to Maumee Development Company, Toledo, Ohio. Manufacture of anthranilic acid. 2,653,971, Sept. 29.

Baldinus, Joseph, assignor to Kysor Heater Company, Cadillac, Mich. Heating and ventilating device for automotive vehicles. 2,653,798, Sept. 29.

Baner, Rawlings R., Monrovia, Calif. Apparatus for cooling and humidifying air. 2,653,803, Sept. 29.

Barkey, Herman D., Ferguson, assignor to McDonnell Aircraft Corporation, St. Louis, Mo. Parasite plane retrieving and towing mechanism. 2,653,777, Sept. 29.

Barr, Guy, Teddington, assignor to Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England. Preparation of beryllium fluoride. 2,653,856, Sept. 29.

Barron, John T., assignor to Charles Crofoot Gear Corp., South Easton, Mass. Rotary pressure fluid seal. 2,653,833, Sept. 29.

Bartholomew, Orlo A., Atlantic City, N. J. Fluorescent lamp assembly. 2,654,021, Sept. 29.

Bartholomew, Robert J., Philadelphia, and W. W. Egee, Yeadon, assignors to Fletcher Works Incorporated, Philadelphia, Pa. Machine for making yarn packages. 2,653,774, Sept. 29.

Batcheider, Laurence, Cambridge, Mass., assignor to Raytheon Manufacturing Company. Commutator tube device. 2,654,040, Sept. 29.

Bates & Chard Company, assignee: *See*—
Denison, Donald.

Bathurst, Thomas T., Miami, Fla. Combination mop, scrubber, and wringer. 2,653,837, Sept. 29.

Baty, Joseph A., assignor to Cresset Research Corporation, Weston, Ohio. Porous material useful in battery separators. 2,653,987, Sept. 29.

Bätz, Werner: *See*—
Adamy, Kurt, and Bätz.

Bauerlein, Carl C., Mukwonago, Wis., assignor to The Dole Valve Company, Chicago, Ill. Dispenser circulatory device. 2,653,802, Sept. 29.

Baum, Elmer, assignor to International Standard Electric Corporation, New York, N. Y. Pulse demodulating system. 2,654,027, Sept. 29.

Bay, Thomas J., U. S. Navy. Expandable condenser tube cleaner. 2,653,334, Sept. 29.

Bechard, Conrad R., Mayfield Heights, Ohio, and V. A. Levand, Jr., Philadelphia, Pa., assignors to General Electric Company. Mount loading guide. 2,653,417, Sept. 29.

Becker, Philip D., Hingham, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Gripping slider type buckle with fastener element on slider. 2,653,364, Sept. 29.

Becker, Philip D., Hingham, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Swivel fastener. 2,653,415, Sept. 29.

Beckman, William R., Chicago, and C. E. Crooks, assignors to Spotnails, Inc., Evanston, Ill. Hammer stapler. 2,653,816, Sept. 29.

Beckman, William R., and A. G. Schilke, Chicago, and C. E. Crooks, assignors to Spotnails, Inc., Evanston, Ill. Hammer type stapling machine. 2,653,817, Sept. 29.

Becton Dickinson and Company, assignee: *See*—
Smoot, John H.

Beech Aircraft Corporation, assignee: *See*—
Odevseff, Alec S.

Behr, Philip W., Kew Gardens, N. Y. Feather dispensing unit. 2,653,744, Sept. 29.

Bell, Floyd L., Lead, S. Dak. Protruding hemorrhoid supporter. 2,653,899, Sept. 29.

Bell & Howell Company, assignee: *See*—
Mueller, Arthur C.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Shockley, William.

Beloit Iron Works, assignee: *See*—
Hornbostel, Lloyd.

Beltz, George W., Cuyahoga Falls, assignor to The Sun Rubber Company, Barberton, Ohio. Drinking and wetting doll with sound effects. 2,653,411, Sept. 29.

Bemis Bro. Bag Co., assignee: *See*—
Marsh, Clifford J.

Benefeld, James D., Decatur, Ga. Hydraulic system air trap. 2,653,564, Sept. 29.

Benjamin, Percy W., West Edmeston, N. Y. Counterbalance for tail gates. 2,653,845, Sept. 29.

Bennett, James A. J., G. Cross, and A. G. Forsyth, Cheam, assignors to The Fairey Aviation Company Limited, Hayes, England. Rotary-wing aircraft. 2,653,778, Sept. 29.

Benrus Watch Company, Inc., assignee: *See*—
Kupchick, Edward.

Bergman, Lars, Stockholm, assignor to Arenco Aktiebolag, Stockholm, Sweden. Supplying packing machine or the like with cigarettes. 2,653,723, Sept. 29.

Bernal, Ricardo M., Havana, Cuba. Closure for unrefillable containers. 2,653,726, Sept. 29.

Berndsen, Richard A., assignee: *See*—
Berndsen, William E.

Berndsen, William E., Cleveland Heights, Ohio, assignor of three sixteenths to R. A. Berndsen and three sixteenths to E. J. Jorgensen. Split head mop having mechanical squeezing means. 2,653,236, Sept. 29.

Best, Cyril, Deptford, London, assignor to Moline Machine Company Limited, London, England. Conveyer and transfer mechanism for use with weighing machines. 2,653,696, Sept. 29.

Best, Stanley G., Manchester, assignor to United Aircraft Corporation, East Hartford, Conn. Thermocouple unit. 2,653,983, Sept. 29.

Bigelow, Inc., assignee: *See*—
Overman, Horace W., and Wolgamott.

Biggert, Florence C., Jr., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Flying shear. 2,653,662, Sept. 29.

Bischoff, Ernst, Company, Inc., assignee: *See*—
Harvill, Edward K.

Bissman, Carl A., deceased, Springfield, Mo.; E. L. Bissman, executrix. Drawer mount with cushioned adapter glides. 2,653,852, Sept. 29.

Bissman, Elizabeth L., executrix: *See*—
Bissman, Carl A.

Bituminous Coal Research, Inc., assignee: *See*—
Hatton, Willard J., and Carlson.
Hatton, Willard J., and Sherman.

Bitzer, Gottlob, Lincoln Park, assignor to Textile Machine Works, Wyomissing, Pa. Drawoff tensioning means for knitting machines. 2,653,461, Sept. 29.

Bitzer, Gottlob, Lincoln Park, assignor to Textile Machine Works, Wyomissing, Pa. Anticorrosion needle mounting. 2,653,906, Sept. 29.

Bitzer, Jack A., Lancaster, and E. N. Woistmann, assignors to O-Cel-O, Inc., Buffalo, N. Y. Jointed handle. 2,653,840, Sept. 29.

Blair, David, Chicago, Ill. Undergarment. 2,653,322, Sept. 29.

Blakey, John G., Portland, Oreg. assignor to American Can Company, New York, N. Y. Weighing and mixing device. 2,653,786, Sept. 29.

Bloom, Abe M., Van Nuys, Calif. Time controlled valve closing mechanism. 2,653,659, Sept. 29.

Böckman, Oluf C.: *See*—
Sejersted, Johannes, and Böckman.

Bodensleck, Ernst J., Euclid, assignor to Thompson Products, Inc., Cleveland, Ohio. Internally ported vane type pump. 2,653,548, Sept. 29.

Body, Alfred C., assignor to The Ohio Crankshaft Company, Cleveland, Ohio. High-frequency induction-heating apparatus. 2,654,019, Sept. 29.

Boeing Airplane Company, assignee: *See*—
Welland, Richard H.

Boelens, Willem W., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Radio circuit arrangement. 2,654,026, Sept. 29.

Bojner, Gustav, Stockholm, Sweden. Rotary drier, kiln, and the like. 2,653,393, Sept. 29.

Bonagura, Anthony, New Paltz, N. Y. Ring. 2,653,402, Sept. 29.

Bonin, Pierre, and X. Randria, Paris, France, assignors to General Electric Company. Body support and cover clamp for vacuum cleaners. 2,653,342, Sept. 29.

Borg-Warner Corporation, assignee: *See*—
Langdon, Eric R.
Polomski, John B., Jr.

Born, William F.: *See*—
Dyer, Lloyd W., and Born.

Bovin, Henry: *See*—
Peltz, Gordon M., and Bovin.

Bowman, Walter J., and W. E. Gould, assignors to Mueller Co., Decatur, Ill. Tamperproof valve or the like. 2,653,790, Sept. 29.

Bowser, Inc., assignee: *See*—
Pressler, Ralph B.

Boyle, Homer G., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Intercarrier sound type television receiver volume control. 2,653,995, Sept. 29.

Bracke, Diane R. W., administratrix: *See*—
Bracke, Oscar J. J., and Lens.

Bracke, Martha O., administratrix: *See*—
Bracke, Oscar J. J., and Lens.

Bracke, Oscar J. J., deceased, Antwerp, Belgium (by M. B. Braeckman, Antwerp, M. O. Bracke and E. A. M. Rooms, St. Amandsberg, M. der Gasparian, and D. R. W. Bracke, administrators), and G. X. Lens, Antwerp, Belgium, assignors to International Standard Electric Corporation, New York, N. Y. Selecting and controlling mechanism for movable parts. 2,653,486, Sept. 29.

Bradbering, Walter, assignor to The Budd Company, Philadelphia, Pa. Press safety jack. 2,653,560, Sept. 29.

Bradley, Aura R., Berea, Ohio. Fishing lure. 2,653,408, Sept. 29.

Braeckman, Maria B., administratrix: *See*—
Bracke, Oscar J. J., and Lens.

Bramming, Carl, Anderson, Ind., assignor to Aladdin Industries, Incorporated, Chicago, Ill. Incandescent mantle mounting. 2,653,464, Sept. 29.

Brannon, Melvin O., Waynesville, N. C. Building construction. 2,653,356, Sept. 29.

Brant, Arthur A., Clarkdale, Ariz., assignor to Newmont Mining Corporation, New York, N. Y. Apparatus for use in making geophysical explorations. 2,653,990, Sept. 29.

Brauchler, Charles A., Canton, Ohio. Collapsible die for forging crankshafts. 2,653,373, Sept. 29.

Breckheimer, Raymond J., assignor to Air Filter Corporation, Milwaukee, Wis. Air filter. 2,653,676, Sept. 29.

Breneman, Chas. W., Co., The, assignee: *See*—
Judd, Charles M.

Brenner, Ralph F., and P. D. Dilliard, assignors to Anchor Hocking Glass Corporation, Lancaster, Ohio. Making annealed copper ruby glass articles. 2,653,419, Sept. 29.

Bridgeport Brass Company, assignee: *See*—
Peltz, Gordon M., and Bovin.

Brinkman, Elwood G., Alameda, Calif. Dispensing container with nondetachable threaded cap and neck, and with registrable dispensing apertures. 2,653,735, Sept. 29.

British Celanese Limited, assignee: *See*—
Gentle, Alexander H., and Jackson.

Brock, Gordon L., Springfield, Mass. Slide projector apparatus. 2,653,512, Sept. 29.

Broding, Robert A., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Electrical resistivity logging of mud invaded formations. 2,654,064, Sept. 29.

Brown, Garfield R., Eau Claire, Wis. Easter basket. 2,653,707, Sept. 29.

Brown, Ralph W., East St. Louis, Ill., assignor to Aluminum Company of America, Pittsburgh, Pa. Precipitation of aluminum hydroxide. 2,653,858, Sept. 29.

Brown and Root, Inc., assignee: *See*—
McCullough, Stirling E.

Browne, Frank A., Jr., Brookline, assignor to Transducer Corporation, Boston, Mass. Magnetic memory storage circuits and apparatus. 2,654,080, Sept. 29.

Browning, Virginia E., Chicago, Ill. Handbag cover. 2,653,640, Sept. 29.

Bruce, William A., Tulsa, Okla., assignor to Standard Oil Development Company. Cut point determination in pipe-line batching. 2,654,067, Sept. 29.

Bruengger, Heinrich: *See*—
Graenacher, Charles, Bruengger, and Siegrist.

Brunansky, Steve J., and H. Forsythe, Gary, Ind. Handling sheets delivered from a dipping tank. 2,653,697, Sept. 29.

Bryman, Moissey, New York, N. Y. Window-washing machine. 2,653,333, Sept. 29.

Buchel, Jules, Covington, assignor of one-third to E. Louque, New Orleans, La., and one-third to J. A. Whittington, Evanston, Ill. Continuous absorption refrigeration system. 2,653,454, Sept. 29.

Buchner, Robert B., Hilversum, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electron tube circuit. 2,654,029, Sept. 29.

Buck, Steward T., Cincinnati, Ohio. Portable hoisting tower. 2,653,685, Sept. 29.

Budd Company, The, assignee: *See*—
Bradbering, Walter.

Buffalo-Eclipse Corporation, assignee: *See*—
Yoder, Howard D.

Bunch, Robert L., and J. M. McGuire, assignors to Eli Lilly and Company, Indianapolis, Ind. Erythromycin, its salts, and preparation. 2,653,899, Sept. 29.

Burdick, Edwin C., Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Controller having means for manually adjusting the set point with a varying ratio of motion multiplication. 2,654,062, Sept. 29.

Burkardt, Anton F., New York, N. Y., assignor to Sativa Corporation. Yarn made of blended fibers. 2,653,441, Sept. 29.

Burns, Earl A., New Baltimore, assignor to Woodall Industries Inc., Detroit, Mich. Pusher attachment for presses. 2,653,661, Sept. 29.

Burreson, Zina, Sheboygan, assigner to Presto Industries, Inc., Eau Claire, Wis. Temperature indicator for hand pressing irons. 2,653,480, Sept. 29.

Burroughs Adding Machine Company, assignee: *See*—
Leatherman, Clifford C., and Wockenfuss.
Wockenfuss, William.

Burroughs Wellcome & Co. (U. S. A.) Inc., assignee: *See*—
Castillo, Julio C., and Phillips.

Burrows, Arthur T. C., assignor to Geo. W. King Limited, Hitchin, England. Sliding door. 2,653,359, Sept. 29.

Butler, Jesse L., Cleveland, Ohio. Snowplow attachment for lawn shears. 2,653,397, Sept. 29.

Butterworth, Gilbert J., Chester, and E. T. Young, Ridley Park, assignors to Sperry-Sun Well Surveying Company, Philadelphia, Pa. Well surveying instrument. 2,653,389, Sept. 29.

Buzzi, Riccardo, Milan, Italy, assignor to Italo Rizzieri. Tens-transfer mechanism of the differential type. 2,653,766, Sept. 29.

C-O-Two Fire Equipment Company, assignee: *See*—
Cahusac, Clarence N., and Allen.

Cady, Paul C.: *See*—
Adams, Arthur R., Grissard, and Cady.

Cahusac, Clarence N., Newark, and F. B. Allen, Towaco, assignors to C-O-Two Fire Equipment Company, Newark, N. J. Smoke detector. 2,654,082, Sept. 29.

Callan, Patrick J., Manhasset, N. Y. Building wall construction. 2,653,469, Sept. 29.

Cameron, James A., Steveston, British Columbia, Canada. Layout instrument. 2,653,387, Sept. 29.

Canan, Walter T., Pasadena, Calif. Tongue depressor and mirror therefor. 2,653,597, Sept. 29.

Cantrell, Hersel G., Jacksboro, Tex. Loading device. 2,653,721, Sept. 29.

Carlson, Henning M.: *See*—
Hatton, Willard J., and Carlson.

Carter, J. C., Company, The, assignee: *See*—
Carter James C.

Carter, James C., Los Angeles County, assignor to The J. C. Carter Company, Pasadena, Calif. Underwing fueling nozzle and valve for aircraft. 2,653,832, Sept. 29.

Casas-Robert, Ramon, and J. Court, Geneva, assignors to Mefina S. A., Binningen, Switzerland. Sewing machine. 2,653,557, Sept. 29.

Casco Products Corporation, assignee: *See*—
Thibault, Joseph O.

Case, J. I., Company, assignee: *See*—
Heth, Sherman C.

Cassady, William C., Vancouver, Wash. Combination door and jamb gauge. 2,653,388, Sept. 29.

Cassella Farbwerke Mainkur Aktiengesellschaft, assignee: *See*—
Fleischhauer, Richard.

Castillo, Julio C., White Plains, and A. P. Phillips, New York, assignors to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Curarizing composition. 2,653,898, Sept. 29.

Cave, Henry, assignor to The Fuller Brush Company, Hartford, Conn. Brush with element of the channel strip type. 2,653,340, Sept. 29.

Cedarholm, Oscar R., Quincy, Mich. Fuel metering control for injection carburetors. 2,653,804, Sept. 29.

Celanese Corporation of America, assignee: *See*—
Mitchell, Robert L., and Luke.
Piperoux, Rene P.

Cella, Richard T., West Windsor, N. J. Traction device for vehicles. 2,653,642, Sept. 29.

Cellerini, Albert R., Beaver, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,654,012, Sept. 29.

Charpentier, Jean F. G. M. L., St. Cloud, France. Automatic torque transformer. 2,653,489, Sept. 29.

Chempatents, Inc., assignee: *See*—
Egbert, Robert B.

Chicago Roller Skate Company, assignee: *See*—
Ware, Gordon K.

Childress, Olven W., Jr.: *See*—
Foust, Floyd J., Childress, Crim, and Thompson.

Christophersen, Clarence E., Inglewood, and G. A. Mahoff, Santa Monica, assignors to Marman Products Company, Inc., Inglewood, Calif. Reinforced V-band clamp. 2,653,836, Sept. 29.

Churchill, Wilmer H., Wellesley, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Bendable tongue attaching device. 2,653,687, Sept. 29.

Ciba Limited, assignee: *See*—
Albrecht, Otto, and Maeder.
Graenacher, Charles, Bruengger, and Siegrist.
Hagenboecker, Alfred.
Sulzer, Georg.
Zickendraht, Christian, and Wittwer.

Clark, Trevor H., Boonton, N. J., assignor to International Standard Electric Corporation, New York, N. Y. Electron switch control system. 2,654,049, Sept. 29.

Clarke, Maurice G., Church Lawford, and H. L. Privett, Rugby, Warwick, England, assignors to General Electric Company. Integrally capacitively ballasted discharge lamp. 2,654,042, Sept. 29.

Clavier, André G., assignor to International Standard Electric Corporation, New York, N. Y. Beam traveling wave amplifier tube. 2,654,047, Sept. 29.

Clevenger, Carl L.: *See*—
Fletcher, William A., and Clevenger.

Clewell, Dayton H., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Thermoacoustic gas analyzer. 2,653,471, Sept. 29.

Coffey, Daniel J., Bronx, N. Y. Combined cigarette trap, ashtray, and holder. 2,653,614, Sept. 29.

Cohen, Arthur M., New York, N. Y. Synchronously operated regulator. 2,654,063, Sept. 29.

Cohn, Samuel, and J. G. Walter, New York, assignors to Samcoe Holding Corporation, Woodside, L. I., N. Y. Apparatus for folding fabrics. 2,653,812, Sept. 29.

Cole, Gilmoure N., Manchester, and J. S. Hasbrouck, Glastonbury, assignors to United Aircraft Corporation, East Hartford, Conn. Supercharger arrangement. 2,653,591, Sept. 29.

Collins, Edgar V., Ames, Iowa. Plow hitch. 2,653,531, Sept. 29.

Collins, Edgar V., Ames, Iowa. Tractor implement hitch. 2,653,825, Sept. 29.

Columbia Ribbon and Carbon Manufacturing Company, Inc., assignee: *See*—
Newman, Douglas A.

Commerce, United States of America as represented by the Secretary of, assignee: *See*—
Isbell, Horace S.

Commercial Solvents Corporation, assignee: *See*—
Hodge, Edward B.
Schwartz, Anthony M.

Commonwealth Engineering Company of Ohio, The, assignee: *See*—
Fink, Albert O.

Compco Corporation, assignee: *See*—
Eastman, Fred L.

Conbere, John P.: *See*—
Rogers, Edward F., and Conbere.

Condon, Francis E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Alkylation of aromatic hydrocarbons with isoparaffins. 2,653,980, Sept. 29.

Configured Tube Products Company, assignee: *See*—
Dolby, John W.

Confort, John, assignee: *See*—
Kelly, William M.

Connelly, Regis A.: *See*—
Ebert, Walter A., and Connelly.

Control Forms, Inc., assignee: *See*—
Dickson, Roy H.

Cook, Emmett B., assignee: *See*—
Aggson, Robert E.

Cooksey, Otha, Louisville, Ky., assignor, by mesne assignments, to E. G. Koriath and H. F. Thiele, Jr., partners, doing business as Korthe Engineering Company, Schiller Park, Ill. Method and apparatus for control of webs in web-handling machines. 2,653,536, Sept. 29.

Coopersmitth, Rudolph, Clayton, Mo. Sofa bed. 2,653,329, Sept. 29.

Corbett, Herbert A., assignor, by mesne assignments, to Auburn Fishhook Company, Inc., Auburn, N. Y. Eye forming mechanism. 2,653,632, Sept. 29.

Cormier, Gerard A., assignor to Jones & Lamson Machine Company, Springfield, Vt. Automatic machine tool. 2,653,503, Sept. 29.

Corona, Edward J., Port Allen, La., assignor to Kaiser Aluminum & Chemical Corporation. Treatment of filtering apparatus. 2,653,716, Sept. 29.

Correa, Guillermo, New York, N. Y. Stereoscopic projection apparatus. 2,653,511, Sept. 29.

Cottar, Robert, Red Bluff, Calif. Portable nail stripper. 2,653,318, Sept. 29.

Couper, Maxwell, Lawrence, Kans. Radiator valve tester. 2,653,470, Sept. 29.

Court, Jean: *See*—
Casas-Robert, and Court.

Cowen, Frank M., Norwalk, and J. K. Dixon, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y. Catalytic addition of cyanogen halides to olefins. 2,653,963, Sept. 29.

Craig, Paul N., Elkins Park, and F. P. Nabenhauer, assignors to Smith, Kline & French Laboratories, Philadelphia, Pa. Bis-(substituted-phenylalkylamino)-compounds. 2,653,977, Sept. 29.

Crampton, David, Montclair, N. J., assignor to Richmond Manufacturing Company, Lockport, N. Y. Holddown device for screen frames. 2,653,714, Sept. 29.

Crane Co., assignee: *See*—
Svabek, John E., Jr.

Crane Packing Company, assignee: *See*—
Roshong, Raymond G., and Peickil.
Voytech, Charles F.
White, Fred L.

Creber, Le Roy A., Noroton Heights, Conn. Variable drive ratio gear drive transmission. 2,653,491, Sept. 29.

Cresset Research Corporation, assignee: *See*—
Baty, Joseph A.

Creutz, Edward C., Pittsburgh, Pa., assignor to the United States of America as represented by the United States Atomic Energy Commission. Forging metals. 2,653,494, Sept. 29.

Crim, Dwight O.: *See*—
Foust, Floyd J., Childress, Crim, and Thompson.

Crimmins, Cornelius A., Stoughton, Mass. Elastic rib knitted fabric. 2,653,463, Sept. 29.

Crofoot, Charles E., Gear Corp., assignee: *See*—
Barron, John T.

Cromwell, Harold J.: *See*—
Schneider, Paul L., and Cromwell.

Cromwell Paper Company, The, assignee: *See*—
Schaar, Charles H.

Crooks, Charles E.: *See*—
Beckman, William R., and Crooks.
Beckman, William R., Schilke, and Crooks.

Crump, Murrel, Olathe, Kans. Grass cutting attachment for tractors. 2,653,437, Sept. 29.

Cummings, James J., Hanley Hills, St. Louis, and A. J. Shimkus, St. Louis, Mo. Permanent rosary. 2,653,395, Sept. 29.

Cunningham, Gale C., Inglewood, and H. A. Kilmer, Manhattan Beach, Calif., assignors to North American Aviation, Inc., Packaging arrangement. 2,653,709, Sept. 29.

Currie, Grover C., assignor to Dacam Corporation, Charlotte, N. C. Bottle carrier. 2,653,742, Sept. 29.

Curtis Industries, Inc., assignee: *See*—
Abrams, Howard.

Cuvillier, Henri, New York, N. Y. Television antenna system. 2,654,030, Sept. 29.

Dacam Corporation, assignee: *See*—
Currie, Grover C.

Dacola Maskinfabrik A/S, assignee: *See*—
Tveden, Niels B.

Dadley, Harry R., Toughkenamon, assignor of one-half to J. V. Fidance, Kennett Square, Pa. Freezing mushrooms. 2,653,930, Sept. 29.

Daimler-Benz Aktiengesellschaft, assignee: *See*—
Nallinger, Friedrich K. H.

Danielson, Otis: *See*—
McGee, Dean A., Danielson, and Seale.

Danly, George L., Elmhurst, and V. Georgeff, La Grange Park, assignors to Danly Machine Specialties, Inc., Chicago, Ill. Connecting rod joint. 2,653,838, Sept. 29.

Danly Machine Specialties, Inc., assignee: *See*—
Danly, George L., and Georgeff.

Dashiell, Daniel H., assignor to The International Electronics Company, Philadelphia, Pa. Oscillator-amplifier circuits for magnetic recording and reproducing systems. 2,654,003, Sept. 29.

Davey, Paul H., Kent, Ohio. Compressor regulator. 2,653,753, Sept. 29.

David, Edward J.: *See*—
Salfisberg, Leroy L., and David.

David, Vernon W.: *See*—
Airs, Raymond S., and David.

Davidson, Lloyd H., Connersville, Ind., assignor to Avco Manufacturing Corporation, New York, N. Y. Cabinet having improved means for facilitating opening doors singly or in multiple. 2,653,851, Sept. 29.

Davies, Robert H., Shaker Heights, and E. R. Sirotak, Brooklyn Village, assignors to The Baker-Raulang Company, Cleveland, Ohio. Electrically driven mechanism. 2,653,841, Sept. 29.

Davis, Benjamin H., Noank, assignor to The Standard Machinery Company, Mystic, Conn. Wire-spooling apparatus. 2,653,773, Sept. 29.

Dawe's Products Company, assignee: *See*—
Freed, Myer.

Dawson, Robert A. J., Houston, Tex. Deep water submersible barge. 2,653,452, Sept. 29.

Dazzi, Joachim, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Vinyl chloride polymers plasticised with addition products of esters. 2,653,948, Sept. 29.

Deakin, Gerald, assignor to International Standard Electric Corporation, New York, N. Y. Multipotential type register controller. 2,654,000, Sept. 29.

Deans, Sidney A. V., Rosemount, Quebec, assignor to Ayerst, McKenna & Harrison, Limited, St. Laurent, Quebec, Canada. Injection apparatus. 2,653,607, Sept. 29.

Dearborn Motors Corporation, assignee: *See*—
Frevik, Ralph C.
Wilson, Raymond W.

Debray, Henri: *See*—
Génin, Henri, and Debray.

De Gelder, Arthur L.: *See*—
Fontein, Freerk J., and de Gelder.

De Haven, Robert H., assignor to Little Rock Basket Company, Little Rock, Ark. Manufacturing lined baskets. 2,653,639, Sept. 29.

De Havilland Aircraft Company Limited, The, assignee: *See*—
Halford, Frank B., and Moult.

De Lange, Hendrik, Dr., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Radar equipment. 2,654,083, Sept. 29.

Delliveneri, Martin J., assignee: *See*—
Monahan, John A.

De Martini, Alfred E. F., Haddon Heights, N. J. Collapsible table and chair. 2,653,652, Sept. 29.

Dempsey, Oscar B., and J. B. Woods, Tulsa, Okla., assignors, by mesne assignments, to Byron Jackson Co., Los Angeles, Calif. Well installation for subsurface hydraulic pumps. 2,653,545, Sept. 29.

Denison, Donald, Cornelius, assignor to Bates & Chard Company, North Plains, Oreg. Bark removing machine. 2,653,635, Sept. 29.

Der Gasparian, Miguir, administrator: *See*—
Bracke, Oscar J. J., and Lens.

Derr, Willard A., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Remote control system. 2,653,998, Sept. 29.

Designers for Industry, Inc., assignee: *See*—
Morton, George E.

Detwiler, Marshall L., Lancaster Township, Lancaster County, Pa. Fish gripper. 2,653,844, Sept. 29.

Deyrup, Alden J., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Modified ceramic enamel. 2,653,877, Sept. 29.

Dickson, Roy H., assignor to Control Forms, Inc., Cleveland, Ohio. Repair service manifolding set. 2,653,831, Sept. 29.

Diekman, George S., Aplington, Iowa. Collapsible hog cradle. 2,653,347, Sept. 29.

Dilliard, Paul D.: *See*—
Brenner, Ralph F., and Dilliard.

Dixon, James K.: *See*—
Cowen, Frank M., and Dixon.

Dodge, Wesley J., Douglaston, N. Y., assignor to Socony-Vacuum Oil Company, Incorporated. Drum lift for industrial trucks. 2,653,725, Sept. 29.

Doerr, Edward L., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Preparation of β,β'-bis(alkylmercapto)diethyl ether. 2,653,978, Sept. 29.

Dolby, John W., assignor to Configured Tube Products Company, Chicago, Ill. Method of and means for forming an elongated opening in a pipe or the like. 2,653,664, Sept. 29.

Dole Valve Company, The, assignee: *See*—
Bauerlein, Carl C.

Dome, Robert B., Onondaga, N. Y., assignor to General Electric Company. Synchronizing circuit. 2,654,033, Sept. 29.

Donnell, Conard E.: *See*—
Kennedy, Robert M., and Donnell.

Dorr, Eleanor, assignee: *See*—
Hudlow, Clair W.

Dosberg, Harry E., Eggertsville, assignor to Ilac Products Corporation, Buffalo, N. Y. Apparatus for dispensing cloth towels. 2,653,693, Sept. 29.

Dosker, Cornelius D., assignor to Gamble Brothers, Inc., Louisville, Ky. Processing wood. 2,653,890, Sept. 29.

Doughty, Robert T.: *See*—
Rasmussen, Carlton A., and Doughty.

Drabkin, Marvin L.: *See*—
Hess, Howard V., Arnold, and Drabkin.

Drake, Nathan L., College Heights, Md., and S. Melamed, Philadelphia, Pa., assignors to the United States of America as represented by the Secretary of the Army. Insect repellents. 2,653,895, Sept. 29.

Dreyfuss, Paul D., Van Nuys, assignor, by mesne assignments, to B. Gaspar, Beverly Hills, Calif. Production of color photographic images. 2,653,874, Sept. 29.

Driver, Wilbur B., Company, assignee: *See*—
Platt, Stephen A.

Drummondville Cotton Company Limited, assignee: *See*—
Johnson, Roland, and Kolb.

Dunston, James M., Jeffersonville, Ind. Convertible solid and liquid fuel-burning stove. 2,653,596, Sept. 29.

Du Pont, E. I., de Nemours and Company, assignee: *See*—
Deyrup, Alden J.
Schroeder, Herman E.
Weinmayr, Viktor.

Durkee, John W., North Wilmington, Mass. Leather stretching apparatus. 2,653,410, Sept. 29.

Dussich, Manlio V. V., Verona, N. J. Cigarette igniting device. 2,653,613, Sept. 29.

Dyer, George W., Bakersfield, Calif. Wrench. 2,653,500, Sept. 29.

Dyer, Lloyd W., and W. F. Born, Beaver, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Bus duct for electrical distribution systems. 2,653,991, Sept. 29.

EGA Electric Limited, assignee: *See*—
Kilminster, George.

Eastman, Fred L., assignor to Compco Corporation, Chicago, Ill. Film-retaining device for reels. 2,653,775, Sept. 29.

Eastman Kodak Company, assignee: *See*—
Hagemeyer, Hugh J., Jr.
Léauté, Jean, and Vandamme.

Ebert, Walter A., Dormont, and R. A. Connelly, Bethel Township, Allegheny County, assignors to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Rolling mill turn-up guide. 2,653,497, Sept. 29.

Eckert, Charles F., Westwood, N. J., assignor to United States Rubber Company, New York, N. Y. Addition of alkali-metal silicofluorides to latex. 2,653,918, Sept. 29.

Edmunds, Edward, Jr., Albuquerque, N. Mex., assignor to Phillips Petroleum Company. Drying ammonium nitrate and like materials. 2,653,391, Sept. 29.

Edwards, Andrew W.: *See*—
Wallace, James M., and Edwards.

Egbert, Robert B., Roslyn Heights, assignor to Chempatents, Inc., New York, N. Y. Manufacture of ethylene oxide. 2,653,952, Sept. 29.

Egee, Walter W.: *See*—
Bartholomew, Robert J., and Egee.

Ehlinger, Marcel: *See*—
Mercier, Ernest, and Ehlinger.

Eichenberg, Robert, assignor to McEvoy Company, Houston, Tex. Valve. 2,653,789, Sept. 29.

Electric & Musical Industries Limited, assignee: *See*—
McGee, James D., White, Lubszynski, Webley, and Huntley.

Elektrokemisk A/S, assignee: *See*—
Bejersted, Johannes, and Böckman.

Elgin, Joseph C., Princeton, N. J., and E. F. Sverdrup, assignors to U. S. Rubber Reclaiming Company, Inc., Buffalo, N. Y. Extrusion apparatus utilizable for reclaiming rubber. 2,653,348, Sept. 29.

Elgin, Joseph C., Princeton, N. J., and E. F. Sverdrup, assignors to U. S. Rubber Reclaiming Company, Inc., Buffalo, N. Y. Reclaiming apparatus and method. 2,653,349, Sept. 29.

Elgin, Joseph C., Princeton, N. J., and E. F. Sverdrup, assignors to U. S. Rubber Reclaiming Co., Inc., Buffalo, N. Y. Reclaiming scrap vulcanized material using an olefin as reclaiming agent. 2,653,914, Sept. 29.

Elgin, Joseph C., Princeton, N. J., and E. F. Sverdrup, assignors to U. S. Rubber Reclaiming Co. Inc., Buffalo, N. Y. Reclaiming rubber and reclaimed rubber products. 2,653,915, Sept. 29.

Elgin, Joseph C., Princeton, N. J., and E. F. Sverdrup, assignors to U. S. Rubber Reclaiming Co., Inc., Buffalo, N. Y. Reclaiming scrap vulcanized material. 2,653,916, Sept. 29.

Ellerbeck, Grant C., Hayward, Calif., assignor to Friden Calculating Machine Co., Inc. Dividend aligning mechanism. 2,653,762, Sept. 29.

Ellis, Charles A., assignor to American Optical Company, Southbridge, Mass. Means for controlling edging machines. 2,653,427, Sept. 29.

Elsner, Edwin C., Glendale, Calif. Buckle with swingable release member. 2,653,365, Sept. 29.

Elsner, Edwin C., Glendale, Calif. Hook fastener. 2,653,368, Sept. 29.

Emelin, Arthur C.: *See*—
Miller, Samuel, and Emelin.

Enders, August, Aktiengesellschaft, assignee: *See*—
Adamy, Kurt, and Bäts.

Enthone, Incorporated, assignee: *See*—
Meyer, Walter R.

Erickson, John G., Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Aminoheterocycles. 2,653,933, Sept. 29.

Esak, John H., assignor to Haddon Bindery, Inc., Camden, N. J. Apparatus for holding books. 2,653,378, Sept. 29.

Eserkaln, Theodore F.: *See*—
Armitage, Joseph B., and Eserkaln.

Essman, Harold W., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Processing mineral fibers. 2,653,355, Sept. 29.

Etienne, Alfred, assignor to l'Air Liquide Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude, Paris, France. Cold separation of gaseous mixtures. 2,653,455, Sept. 29.

Ettmüller, Walter, Zurich, Switzerland. Erasure-debris collecting device on typewriters and like machines. 2,653,695, Sept. 29.

Eureka Williams Corporation, assignee: *See*—
Kunkler, Harry G.

Fairey Aviation Company Limited, The, assignee: *See*—
Bennett, James A. J., and Forsyth.

Farnsworth Research Corporation, assignee: *See*—
Harris, Albert S.

Fessler, William A., Prince George County, Va., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Olefin sulfitation process. 2,653,970, Sept. 29.

Fidance, Joseph V., assignee: *See*—
Dadley, Harry R.

Field, John G., Edmonton, Alberta, Canada. Supplementary clothesline. 2,653,719, Sept. 29.

Fields, Joseph E., and T. M. Patrick, Jr., Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Hydrocarbon oil compositions containing telomeric polyalkyl oxoesters as anti-foaming agents. 2,653,911, Sept. 29.

Findlay, John H.: *See*—
McCurdy, William H., Findlay, and Werner.

Findley, Jack R., Bellflower, Calif. Brick cutter. 2,653,594, Sept. 29.

Fink, Albert O., assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Bonding of metal carbonyl deposits. 2,653,879, Sept. 29.

Finlayson, William G., assignor to Vickers Incorporated, Detroit, Mich. Power transmission. 2,653,626, Sept. 29.

Fitch, John C. A., Bloomfield, assignor to Standard Container, Inc., Rockaway, N. J. Tubular container and pressure tight closure. 2,653,730, Sept. 29.

Fitzgerald, Francis H., Duluth, Minn. Method and means for packaging. 2,653,429, Sept. 29.

Flaugh, Oren F.: *See*—
Moore, Richard E., Lape, and Flaugh.

Flaws, John, Jr., and C. R. Meckstroth, East Cleveland, Ohio, assignors to General Electric Company. Defective lamp detecting and ejecting mechanism. 2,653,711, Sept. 29.

Fleischhauer, Richard, assignor to Cassella Farbwerke Mainkur Aktiengesellschaft, Frankfurt am Main Fechenheim, Germany. Tetrakisazo-dyestuffs. 2,653,929, Sept. 29.

Fleming, Harold W., Bartlesville, Okla., assignor to Phillips Petroleum Company. Recovery of oxygen compounds from Fischer-Tropsch product. 2,653,961, Sept. 29.

Fletcher, William A., Daleville, and C. L. Clevenger, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Making unitary magnetic pole pieces. 2,653,376, Sept. 29.

Fletcher Works Incorporated, assignee: *See*—
Bartholomew, Robert J., and Egee.

Fontein, Freerk J., Heerlen, and A. L. de Gelder, Stein, assignors to Stamicarbon N. V., Heerlen, Netherlands. Process and apparatus for dispersing a substance in a liquid. 2,653,801, Sept. 29.

Ford Motor Company, assignee: *See*—
Meinsinger, Jacob, and Voorheis.
Thomas, Julius A.

Forester, Joseph E., Arlington, Va. Animal cage feeding device. 2,653,569, Sept. 29.

Forsyth, Archibald G.: *See*—
Bennett, James A. J., and Forsyth.

Forsythe, Harold: *See*—
Brunansky, Steve J., and Forsythe.

Fort, Leas M., Harborcreek Township, Erie County, Pa. Retaining wall structure. 2,653,450, Sept. 29.

Foster, Edwin E., Austin, Tex. Repeating air gun. 2,653,593, Sept. 29.

Foust, Floyd J., O. W. Childress, Jr., D. O. Crim, and R. A. Thompson, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Generator armature test. 2,654,065, Sept. 29.

Frank, William J., Rochester, N. Y. Soap and detergent dispenser for washing machines. 2,653,618, Sept. 29.

Fraser, Robert M., Buenos Aires, Argentina. Braiding machine. 2,653,506, Sept. 29.

Frazier, David, Bay Village, assignor to The Standard Oil Company, Cleveland, Ohio. Soluble oils comprising neutralized oxidized petroleum oils. 2,653,909, Sept. 29.

Frazier, Larry C., assignor to National-Standard Company, Niles, Mich. Tire building machine. 2,653,645, Sept. 29.

Freed, Myer, assignor to Dawe's Products Company, Chicago, Ill. Choline pantothenate and manufacturing same. 2,653,968, Sept. 29.

Freeman, George A., East Orange, and C. G. Anderson, Jr., Packanack Lake, N. J., assignors to Westinghouse Electric Corporation, Pittsburgh, Pa. Discharge lamp, operating, and making. 2,654,043, Sept. 29.

Freire, Antonio C., Sao Paulo, Brazil. Fishing device. 2,653,407, Sept. 29.

French, Heyward A.: *See*—
Staschover, Leo, and French.

Frevik, Ralph C., Detroit, assignor to Dearborn Motors Corporation, Birmingham, Mich. Implement hitch for tractors. 2,653,824, Sept. 29.

Frey, Gustav O.: *See*—
Huntar, Felix, and Frey.

Friden Calculating Machine Co., Inc., assignee: *See*—
Ellerbeck, Grant C.
Hopkins, George W.
Machado, Anthony B., and Pruellage.

Fried. Krupp, assignee: *See*—
Linke, Gerhard.

Fugate, Wesley O., and L. C. Lane, Jr., Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparation of formoguanamines. 2,653,938, Sept. 29.

Fuller Brush Company, The, assignee: *See*—
Cave, Henry.

Fuller, Paul K., Rocky River, Ohio. Grinding disk. 2,653,428, Sept. 29.

Gaba, John W.: *See*—
Milander, John E., and Gaba.

Gaborc, James J., New York, N. Y. Test probe. 2,654,075, Sept. 29.

Galuppo, James: *See*—
Angiolino, Guy, and Galuppo.

Gamble Brothers, Inc., assignee: *See*—
Dosker, Cornelius D.

Ganim, Joseph, Brooklyn, N. Y. Extension connection for brassières and undergarments. 2,653,323, Sept. 29.

Gardiner, Duncan B., Detroit, E. F. Kleesig, Berkley, and H. C. Parsons, Grosse Pointe Park, assignors to Vickers Incorporated, Detroit, Mich. Power transmission. 2,653,550, Sept. 29.

Garrett Corporation, The, assignee: *See*—
Jensen, Raymond W.

Gaspar, Bela, assignee: *See*—
Dreyfuss, Paul D.

Ged, Agnes M., Brooklyn, N. Y. Turban cap. 2,653,326, Sept. 29.

Geeraert Corporation, The, assignee: *See*—
Geeraert, Leon J.

Geeraert, Leon J., Brooklyn, assignor to The Geeraert Corporation, New York, N. Y. High-pressure pump. 2,653,552, Sept. 29.

Gelsheiser, Francis L.: *See*—
Toth, Julius, and Gelsheiser.

General Aniline & Film Corporation, assignee: *See*—
Shekleton, Joseph F.

General Controls Co., assignee: *See*—
Ray, William A.

General Electric Company, assignee: *See*—
Bechard, Conrad E., and Levand.
Bonin, Pierre, and Randria.
Clarke, Maurice G., and Privett.
Dome, Robert B.
Flaws, John, Jr., and Meckstroth.
Hager, Karl F., Lindenmayr, and Rosenthal.
Hughes, Philip G.
Kenty, Carl.
Ross, John F., and Sloyer.
Scott, Benjamin B.
Shaw, Bernard.
Vaughan, Clayton T.
Weeks, Walter R.
Wright, Donald A.

General Electric Company Limited, The, assignee: *See*—
Levy, Maurice M.

General Motors Corporation, assignee: *See*—
Arthur, James L.
Fletcher, William A., and Clevenger.
Foust, Floyd J., Childress, Crim, and Thompson.
Guernsey, Robert W., and Ulrey.
Manning, William H., and Hulsing.
Moore, Richard E., Lape, and Flaugh.
Rasmussen, Carlton A., and Doughty.
Schneider, Paul L.
Schneider, Paul L., and Cromwell.

General Steel Castings Corporation, assignee: *See*—
Sheehan, William M.

Génin, Henri, and H. Debray, Laval, France. Trigger fire extinguishing apparatus. 2,653,667, Sept. 29.

Gentle, Alexander H., and T. Jackson, Spondon, near Derby, England, assignors to British Celanese Limited. Treating fibrous materials to improve their bonds with rubber. 2,653,886, Sept. 29.

Gentle, Alexander H., and T. Jackson, Spondon, near Derby, England, assignors to British Celanese Limited. Treating fibrous materials to improve their bonds with rubber and the products thereof. 2,653,891, Sept. 29.

Gentle, Alexander H., and T. Jackson, Spondon, near Derby, England, assignors to British Celanese Limited. Treating fibrous materials to improve their bonds with vinyl chloride polymers and the products thereof. 2,653,892, Sept. 29.

Georgeff, Vasil: *See*—
Darly, George I., and Georgeff.

Gerber, Eugenio, deceased, Buenos Aires, Argentina; M. S. Sorondo, curator of the estate of said E. Gerber, assignor to Gerber, Sociedad de Responsabilidad Limitada, Buenos Aires, Argentina. Embroidering machine. 2,653,556, Sept. 29.

Gerber, Sociedad de Responsabilidad Limitada, assignee: *See*—
Gerber, Eugenio.

Geyer, Bradford P.: *See*—
Van Dijck, Willem J. D., and Geyer.

Gibson, Charles R., Richmond, Va. Power indicating instrument. 2,653,472, Sept. 29.

Gille, Willis H., St. Paul, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Limit switch centering apparatus. 2,654,061, Sept. 29.

Gillham, Willard C., and A. T. Hendrix, Knoxville, Tenn., assignors to Tennessee Valley Authority. Oil burner. 2,653,767, Sept. 29.

Gilson, Robert M., Pittsburgh, Pa., assignor to Westinghouse Air Brake Company. Operating and snubbing circuits for direct current motors. 2,654,024, Sept. 29.

Glaeser, Alfred L., Claymont, assignor to Hercules Powder Company, Wilmington, Del. Apparatus for pyrolyzing reactants. 2,653,859, Sept. 29.

Glies, George E., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Extruder. 2,653,352, Sept. 29.

Globe Hoist Company, assignee: *See*—
Thompson, Elmer B.

Godeas, Marcello S., Seville, Spain. Electric storage battery. 2,653,984, Sept. 29.

Goldstein, Maxwell K., Washington, D. C. Detector system. 2,654,085, Sept. 29.

Goodman Manufacturing Company, assignee: *See*—
Robbins, James S.
Sloane, William W.

Goodrich, B. F., Company, The, assignee: *See*—
Harper, Thomas C.
Hussey, Harold A., and Wright.

Goodwin, Edwin C., Canton, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Speedgraph recorder. 2,653,853, Sept. 29.

Gordon, Warren W., Mount Gilead, Ohio. Fence post anchor. 2653,688, Sept. 29.

Gottlieb, Julius J.: *See*—
Gottlieb, Morris M. and J. J.

Gottlieb, Morris M. and J. J., Washington, D. C. Arch support and making same. 2,653,396, Sept. 29.

Gould, Wallace E.: *See*—
Bowan, Walter J., and Gould.

Graber Company, The, assignee. *See*—
Graber, John N.

Graber, John N., assignor to The Graber Company, Middleton, Wis. Traverse rod and supporting bracket. 2,653,344, Sept. 29.

Grabiak, George W. and R. W., Reading, Pa. Fishing rod stabilizer. 2,653,406, Sept. 29.

Grabiak, Richard W.: *See*—
Grabiak, George W. and R. W.

Graenacher, Charles, Riehen, H. Bruengger, and A. E. Siegrist, assignors to Ciba Limited, Basel, Switzerland. Heterocyclic azo-dyestuff. 2,653,927, Sept. 29.

Graenacher, Charles, Riehen, H. Bruengger, and A. E. Siegrist, assignors to Ciba Limited, Basel, Switzerland. Heterocyclic azo-dyestuff derivatives. 2,653,928, Sept. 29.

Graham, William T., Amarillo, Tex. Plow with snubber attachment. 2,653,532, Sept. 29.

Granger, Elmer E., Reno, Nev. Water heater. 2,653,583, Sept. 29.

Grant Oil Tool Company, assignee: *See*—
Santiago, James J.

Gray-Mills Corporation, assignee: *See*—
Zaber, Adolph J.

Grayhill, assignee: *See*—
Hill, Ralph M.

Greger, Paul B., Reading, Pa. Furnace. 2,653,582, Sept. 29.

Gregory, Edward D., Rochelle Park, W. C. Lilliendahl, Mountain Lakes, and D. M. Wroughton, Livingston, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Manufacture of ductile vanadium. 2,653,869, Sept. 29.

Griffith, Llewellyn B., Austin, Tex. Sewage recirculation. 2,653,907, Sept. 29.

Grindstaff, Ray A., Spokane, Wash. Animal feeder. 2,653,570, Sept. 29.

Grizzard, Earle D.: *See*—
Adams, Arthur R., Grizzard, and Cady.

Guernsey, Robert W., Detroit, and R. C. Ulrey, Livonia, assignors to General Motors Corporation, Detroit, Mich. Flexible link drive for isolating torsional vibration. 2,653,457, Sept. 29.

Gulf Research & Development Company, assignee: *See*—
Pigott, Reginald J. S.

Guy, Frederick M.: *See*—
Saurer, Curt, and Guy.

Haddon Bindery, Inc., assignee: *See*—
Esak, John H.

Hafner, Ludwig G. P.: *See*—
Quirk, Justin P., and Hafner.

Hagemeyer, Hugh J., Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Preparation of nitriles and catalysts therefor. 2,653,964, Sept. 29.

Hagenboecker, Alfred, assignor to Ciba Limited, Basel, Switzerland. Manufacture of ortho-hydroxyarylcarboxlic acid-B-naphthylamides. 2,653,974, Sept. 29.

Hager, Karl F., and H. I. Lindenmayr, Huntsville, Ala., and M. Rosenthal, El Paso, Tex.; said Rosenthal assignor to General Electric Company, said Hager and said Lindenmayr assignors to the United States of America as represented by the Secretary of the Army. Bubbling reduction for high temperature resisting bonding. 2,653,889, Sept. 29.

Halford, Frank B., Edgware, and E. S. Moult, Hatch End, assignors to The De Havilland Aircraft Company Limited, Hatfield, England. Turbo compressor jet-propulsion apparatus and adjustable nozzle therefor. 2,653,445, Sept. 29.

Hall, Andrew D., Riverdale, N. Y. Match book holder. 2,653,705, Sept. 29.

Hall, Newton L., Long Beach, Calif. Rotary weight-impact crushing mill. 2,653,769, Sept. 29.

Halley, Angus M., Moseley, Birmingham, England. Rotary photogravure printing apparatus. 2,653,535, Sept. 29.

Halley, Angus M., Moseley, Birmingham, England. Rotary printing machine. 2,653,539, Sept. 29.

Hamilton, Arthur S., Jr., Brighton, N. Y. Automatic leveling mechanism for hoisting trucks. 2,653,679, Sept. 29.

Hamilton, Munroe H., assignee: *See*—
Rowell, William G.

Hammon, Henry G., Stevensville, Mich., assignor, by mesne assignments, to C. L. Wilson, Columbus, Ohio. Making an expanded material and the product resulting therefrom. 2,653,917, Sept. 29.

Hancock, William E., Sherman Oaks, Calif. Spinner fishing lure. 2,653,409, Sept. 29.

Hanna, Delbert L., and B. O. Strom, Syracuse, assignors to Allied Chemical & Dye Corporation, New York, N. Y. Refining chlorinated benzenes. 2,653,904, Sept. 29.

Hanson, Helen L., and H. Lineweaver, Berkeley, Calif., assignors to the United States of America as represented by the Secretary of Agriculture. Stabilized creamed food products. 2,653,876, Sept. 29.

Harder, Clarence L.: *See*—
Wright, Henry H., and Harder.

Harding, George N., Aldershot, England, and O. F. W. Thal, Bielefeld, Germany, assignors to Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England. Movements of electrical measuring instruments and the like. 2,654,069, Sept. 29.

Harford, Charles G., Quincy, assignor to Arthur D. Little, Inc., Cambridge, Mass. Molded articles comprising a furfuryl alcohol resin and a mixture of fillers of different mesh sizes. 2,653,920, Sept. 29.

Harper, Robert W., Fort Wayne, Ind. Gauge for liquid containers. 2,653,478, Sept. 29.

Harper, Thomas C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Temporary protection of unvulcanized rubbery surfaces. 2,653,885, Sept. 29.

Harris, Albert S., assignor to Farnsworth Research Corporation, Fort Wayne, Ind. Frequency oscillation modulator. 2,654,071, Sept. 29.

Hartford National Bank and Trust Company, assignee: *See*—
Boelens, Willem W.
Buchner, Robert B.
De Lange, Hendrik, Dr.
Hooijkamp, Cornelis, and Haus.
White, Ezekiel F., and La Viano.

Hartung, George A., Brookfield, Ill. Golf putting practice device. 2,653,815, Sept. 29.

Harvill, Edward K., Essex, assignor to Ernst Bischoff Company, Inc., Ivoryton, Conn. Alkali metal salts of adenylic acid. 2,653,897, Sept. 29.

Harvill, Edward K., Essex, assignor to Ernst Bischoff Company, Inc., Ivoryton, Conn. Adenylic acid salts-gelatin composition. 2,653,901, Sept. 29.

Hasbany, Woodrow A., assignor to The Studebaker Corporation, South Bend, Ind. Parking brake for automotive vehicles. 2,653,689, Sept. 29.

Hasbrouck, John S.: *See*—
Cole, Gilmoure N., and Hasbrouck.

Hastings Manufacturing Company, assignee: *See*—
Phillips, Harold P.

Hatton, Willard J., and H. M. Carlson, Columbus, Ohio, assignors, by mesne assignments, to Bituminous Coal Research, Inc., Washington, D. C. Apparatus and method for controlling combustion furnaces for solid organic fuels. 2,653,554, Sept. 29.

Hatton, Willard J., and R. A. Sherman, Columbus, Ohio, assignors, by mesne assignments, to Bituminous Coal Research, Inc., Washington, D. C. Downflow stoker-fed furnace system for bituminous coals. 2,653,555, Sept. 29.

Haus, Rudolf: *See*—
Hooijkamp, Cornelis, and Haus.

Hedrick, Ross M., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Ethylene sulfonyl fluoride and its preparation. 2,653,973, Sept. 29.

Heiberg, Joseph F., Willmar, Minn. Aerated oscillatory clothes hamper. 2,653,758, Sept. 29.

Heilmann, Thorbjorn, Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Apparatus for burning fuel. 2,653,810, Sept. 29.

Hein, George N., Jr., San Carlos, Calif. Injection apparatus. 2,653,603, Sept. 29.

Hein, George N., Jr., San Carlos, Calif. Injection device. 2,653,604, Sept. 29.

Hein, George N., Jr., San Carlos, Calif. Injection device and ampoule. 2,653,605, Sept. 29.

Heller, Lewis W., Yardley, Pa., assignor to The Babcock & Wilcox Company, New York, N. Y. Combined condensing vapor and gas turbine power plant. 2,653,447, Sept. 29.

Helsel, Noah, Jr., Lake City, Mich. Endgate control for dump trucks. 2,653,847, Sept. 29.

Hendricks, James O., White Bear Lake, and A. F. Schmeizle, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Heat-activated temporarily pressure-sensitive adhesive tape. 2,653,880, Sept. 29.

Hendrix, Andrew T.: *See*—
Gillham, Willard C., and Hendrix.

Henning, George E., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for advancing and working elastomer compounds. 2,653,351, Sept. 29.

Henter, Mathias, Brookfield, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Support for field coils of dynamoelectric machines. 2,654,037, Sept. 29.

Herbener, Henry M., Thomasville, Ga. Foundation garment. 2,653,321, Sept. 29.

Hercules Powder Company, assignee: *See*—
Glaeser, Alfred L.

Herman, Molly, Chicago, Ill. Mouth insert pad. 2,653,600, Sept. 29.

Heron, Kenneth M.: *See*—
Lawrence, John A., and Heron.

Herrmann, Will A., Houston, Tex. Feeding machine for cotton and the like. 2,653,353, Sept. 29.

Hess, Howard V.: *See*—
Moore, Frank J., and Hess.

Hess, Howard V., Beacon, G. B. Arnold, Glenham, and M. L. Drabkin, assignors to The Texas Company, New York, N. Y. Treating synthesis product. 2,653,960, Sept. 29.

Heth, Sherman C., assignor to J. I. Case Company, Racine, Wis. Nonwinding header auger. 2,653,701, Sept. 29.

Heym, Lothar S., Youngstown, Ohio. Universal joint. 2,653,456, Sept. 29.

Hickin, Robert J., assignor to The Ohio Boxboard Company, Rittman, Ohio. Carton erecting mechanism. 2,653,524, Sept. 29.

Hicks, William W., assignor to Ionics, Inc., San Francisco, Calif. Baseboard heater construction. 2,654,017, Sept. 29.

Higgins, Charles A., assignor to Radio Frequency Laboratories, Inc., Boonton, N. J. Frequency shift teleprinter. 2,654,025, Sept. 29.

Higgins, Gerry L., San Diego, Calif. Hole-cutting device. 2,653,595, Sept. 29.

Hill, Ralph M., Riverside, assignor to Grayhill, Chicago, Ill. Terminal construction for electric coil forms. 2,653,992, Sept. 29.

Hillyer, John C.: *See*—
Marhofer, Edwin G., and Hillyer.

Hippen, Ralph W., Bellaire, and C. L. Murphy, Sr., Houston, Tex. Liquid level control. 2,653,623, Sept. 29.

Hobson, H. M., Limited, assignee: *See*—
Mott, Lawrence F.

Hodge, Edward B., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Insecticidal compounds. 2,653,896, Sept. 29.

Hoenle, Norman J.: *See*—
Landis, George G., and Hoenle.

Hoffmann-La Roche Inc., assignee: *See*—
Kägi, Fritz, and Salemink.
Lee, John.
Schläpfer, Reinhard.

Hogan, John P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Methyl group shifting of olefin. 2,653,981, Sept. 29.

Holdgate, John C.: *See*—
Miller, Harvey D., and Holdgate.

Holland, Arnold J., Penn Laird, Va., assignor to Merck & Co., Inc., Rahway, N. J. Vitamin B_{12} purification process. 2,653,900, Sept. 29.

Hollowell, L. B., assignee: *See*—
Martin, William L.

Holmen, John D.: *See*—
Anderson, Albert L., and Holmen.

Hooe, Charles R., Severna Park, Md. Sunray heat cabinet. 2,653,612, Sept. 29.

Hooijkamp, Cornelis, Hilversum, Netherlands, and R. Haus, Zurich, Switzerland, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Circuit-arrangement in a telephone system for the reception of signals. 2,654,002, Sept. 29.

Hoopes, Harry P., Berkeley, assignor to Pabco Products Inc., San Francisco, Calif. Ejection molding apparatus. 2,653,370, Sept. 29.

Hopkins, George W., San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc. Dividend aligning mechanism. 2,653,763, Sept. 29.

Hopkins, George W., San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc. Division aligner. 2,653,764, Sept. 29.

Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Paper machine. 2,653,522, Sept. 29.

Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Reverse suction press assembly. 2,653,523, Sept. 29.

Horton, Roger F., Glastonbury, assignor to United Aircraft Corporation, East Hartford, Conn. Radial piston rotary pump. 2,653,542, Sept. 29.

Hoskins, Elvin E., Flint, Mich. Liquid level gauge. 2,653,477, Sept. 29.

Hottenroth, Frederick W., Goshen, Ind., assignor to Penn Controls, Inc. Vacuum switch. 2,653,629, Sept. 29.

Houdaille-Hershey Corporation, assignee: *See*—
Strauss, John N.

Hough, George H., and T. M. Jackson, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Electric discharge tube. 2,654,044, Sept. 29.

Hudlow, Clair W., deceased, Washington, D. C.; M. J. O'Callaghan, Jr., administrator, assignor of one-third to E. Dorr, Washington, D. C., one-third to R. Wallace, Greenbelt, and one-third to L. Stumpf, Takoma Park, Md. Electrical testing instrument having insulation piercing and wire gripping means. 2,654,076, Sept. 29.

Huebner, William C., Mamaroneck, N. Y. Apparatus for holding and positioning a combined mask and screen. 2,653,510, Sept. 29.

Hughes, Philip G., Schenectady, N. Y., assignor to General Electric Company. Thermal timing apparatus. 2,654,010, Sept. 29.

Hulsing, Kenneth L.: *See*—
Manning, William H., and Hulsing.

Hultquist, Martin E., Bound Brook, and T. F. Scholz, Somerville, N. J., assignors to American Cyanamid Company, New York, N. Y. 3,7-dihalo-4-hydroxyquinolines. 2,653,941, Sept. 29.

Huntar, Felix, Livingston, and G. O. Frey, Newark, N. J., assignors to American Can Company, New York, N. Y. Container closing mechanism. 2,653,745, Sept. 29.

Hunter, Edward, Northwich, England, assignor to Imperial Chemical Industries Limited. Aqueous polyethylene dispersions produced by subjecting molten polymer in water to a high rate of shear. 2,653,919, Sept. 29.

Hunter, Melmoth W., Lorain, Ohio. Shank-grip slidable side jaw wrench. 2,653,501, Sept. 29.

Huntley, Keith G.: *See*—
McGee, James D., White, Lubszynski, Webley, and Huntley.

Hussey, Harold A., Belmont, and D. D. Wright, Watertown, Mass., assignors to the B. F. Goodrich Company, New York, N. Y. Composite article. 2,653,884, Sept. 29.

Hydraulic Systems, Inc., assignee: *See*—
Jenny, Albert C.

Hyman, Mark, Jr., Belmont, assignor to Polaroid Corporation, Cambridge, Mass. Forming container blanks. 2,653,888, Sept. 29.

Ideal Toy Corporation, assignee: *See*—
Baggott, Edmund W.

Ilac Products Corporation, assignee: *See*—
Dosberg, Harry E.

Imperial Chemical Industries Limited, assignee: *See*—
Hunter, Edward.
Rubenstein, Leon.

International Electronics Company, The, assignee: *See*—
Dashiell, Daniel H.
Roberts, Bruce.

International Standard Electric Corporation, assignee: *See*—
Baum, Elmer.
Bracke, Oscar J. J., and Lens.
Clarke, Trevor H.
Clavier, André G.
Deakin, Gerald.
Hough, George H., and Jackson.
Matthews, Kenneth A., and White.
Reinhard, Wolfgang.
Staschover, Leo, and French.
Turner, Frank B.
Weston, William K.
Wright, Esmond P. G.

Ionics, Inc., assignee: *See*—
Hicks, William W.

Isbell, Horace S., Washington, D. C., assignor to the United Sttaes of America as represented by the Secretary of Commerce. Labeling polysaccharides with C^{14} and products resulting therefrom. 2,653,931, Sept. 29.

Isola, John D.: *See*—
Young, Arthur R., and Isola.

Italo Rizzieri, assignee: *See*—
Buzzi, Riccardo.

Ivers-Lee Company, assignee: *See*—
Salfisberg, Leroy L., and David.
Swartz, George A.

Jackson, Byron, Co., assignee: *See*—
Dempsey, Oscar E., and Woods.

Jackson, Donald R.: *See*—
Ash, Arthur B., and Jackson.

Jackson, Thomas: *See*—
Gentle, Alexander H., and Jackson.

Jackson, Thomas M.: *See*—
Hough, George H., and Jackson.

Jacobs, Saul, Forest Hills, N. Y. Prefabricated greenhouse. 2,653,553, Sept. 29.

Jacoby-Bender, Inc., assignee: *See*—
Rodriguez, Emil.

James, Thomas, Jr., Oaklyn, N. J. Auxiliary brake control valve for railroad cars. 2,653,849, Sept. 29.

Jamieson, Walter J., Manhasset, assignor to Walter J. Jamieson Corp., New York, N. Y. Sifter-top container having a slide closure. 2,653,736, Sept. 29.

Jamieson, Walter J., Corp., assignee: *See*—
Jamieson, Walter J.

Jeffrey Manufacturing Company, The, assignee: *See*—
Moon, Sterling C.
Steinmetz, Walter C.

Jenny, Albert C., assignor, by mesne assignments, to Hydraulic Systems, Inc., Cleveland, Ohio. Hydraulic starter drive. 2,653,577, Sept. 29.

Jensen, Raymond W., assignor to The Garrett Corporation, Los Angeles, Calif. Submerged valve oil cooler. 2,653,797, Sept. 29.

Johnson, Axel A., Holly, Mich. Wax applicating and dispensing unit. 2,653,335, Sept. 29.

Johnson, Axel A., Holly, Mich. Wax applicating and dispensing unit. 2,653,338, Sept. 29.

Johnson, Carl R., assignor to F. A. Putnam Mfg. Co. Inc., Keene, N. H. Inking type of printing machines with quick-drying ink. 2,653,540, Sept. 29.

Johnson, Dayton L., assignee: *See*—
Wieczorek, Joseph.

Johnson, Elmer J., assignee: *See*—
Wieczorek, Joseph.

Johnson, Glen A., Connorsville, Ind. Light-beam-rectifying lens. 2,653,516, Sept. 29.

Johnson, Harvey P., Doniphan, Mo. Animal restraining chute. 2,653,573, Sept. 29.

Johnson, Roland, Drummondville West, Quebec, and R. W. Kolb, Drummondville, Quebec, assignors to Drummondville Cotton Company Limited, Montreal, Quebec, Canada. Nylon fish netting. 2,653,372, Sept. 29.

Johnson, Terrence E., assignee: *See*—
Wieczorek, Joseph.

Johnson, William S., Madison, Wis. Preparing 4-quinolyl secondary amines. 2,653,940, Sept. 29.

Jones, Joseph W., New York, N. Y. Color wheel for television. 2,653,994, Sept. 29.

Jones & Lamson Machine Company, assignee: *See*—
Cormier, Gerard A.

Jones & Laughlin Steel Corporation, assignee: *See*—
Ebert, Walter A., and Connelly.

Jordan, Benjamin H., High Point, N. C. Wrap stripe attachment for knitting machines. 2,653,462, Sept. 29.

Jorgensen, Betty J., assignee: *See*—
Berndsen, William E.

Joy Manufacturing Company, assignee: *See*—
Simmons, Leon E.

Judd, Charles M., assignor to The Chas. W. Breneman Co., Cincinnati, Ohio. Packaging window shades. 2,653,710, Sept. 29.

K. A. C. Limited, assignee: *See*— Love, John.

Kaiser Aluminum & Chemical Corporation, assignee: *See*— Corona, Edward J.

Kaiser, Donald W., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparing methyl isomelamine. 2,653,935, Sept. 29.

Kaiser, Donald W., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Ammeline salts. 2,653, 937, Sept. 29.

Kaiser, Donald W., Old Greenwich, and F. C. Schaefer, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Ethylenimino-S-triaxines. 2,653,934, Sept. 29.

Kamm, Wunibald I. E., W. F. Krautter, and K. Staiger, Dayton, Ohio, assignors to the United States of America as represented by the Secretary of the Air Force. Gas starter for resonant pulse jet burners. 2,653,654, Sept. 29.

Kanode, Albert E., Towson, and C. H. Matson, assignors to The Glenn L. Martin Company, Middle River, Md. Container for inflammable liquids. 2,653,541, Sept. 29.

Kaplan, Nathan, Atlanta, Ga. Fish-scaling cylinder construction. 2,653,345, Sept. 29.

Karlsson, Karl A., Stockholm, Sweden. Pulp treating apparatus. 2,653,520, Sept. 29.

Kast, Richard P., Middletown, Ohio. High-strength paper and making. 2,653,870, Sept. 29.

Katcher, Morris, New York, N. Y. Fuel and vacuum pump operating levers and operating springs therefor. 2,653,544, Sept. 29.

Katz, Rudi, Long Beach, N. Y. Locking device for electric plugs. 2,654,073, Sept. 29.

Kawecki Chemical Company, assignee: *See*— Kawecki, Henry C.

Kawecki, Henry C., Fleetwood, assignor to Kawecki Chemical Company, Boyertown, Pa. Production of alkali metal fluotitanates and fluozirconates. 2,653,855, Sept. 29.

Kay, Samuel, New York, N. Y. Dental paralleling apparatus. 2,653,385, Sept. 29.

Kearney & Trecker Corporation, assignee: *See*— Armitage, Joseph B., and Eserkaln.

Kelly, William M., Westfield, N. J., assignor to J. Confort, New York, N. Y. Device for automatically controlling air-actuated mechanisms of machines. 2,653,627, Sept. 29.

Kennedy, Robert M., Newtown Square, and C. K. Donnell, Springfield, assignors to Sun Oil Company, Philadelphia, Pa. Catalytic alkylation of isoparaffins with olefins. 2,653,982, Sept. 29.

Kenty, Carl, Cleveland Heights, Ohio, assignor to General Electric Company. Measuring molecular impurities in rare gases. 2,654,051, Sept. 29.

Kerr-McGee Oil Industries, Inc., assignee: *See*— McGee, Dean A., Danielson, and Seale.

Kilmer, Harold A.: *See*— Cunningham, Gale C., and Kilmer.

Kilminster, George, Birmingham, assignor of one-half to EGA Electric Limited, Wednesbury, England. Low tension electric switchgear. 2,654,055, Sept. 29.

Kilpatrick, Myron O., Bartlesville, Okla., assignor to Phillips Petroleum Company. Hydrocarbon conversion. 2,653,903, Sept. 29.

Kinder, Don L., Redlands, Calif. Wind machine oscillator. 2,653,482, Sept. 29.

King, Geo. W., Limited, assignee: *See*— Burrows, Arthur T. C.

Kingdon, Ralph H., assignor to Square D Company, Detroit, Mich. Electric switch. 2,654,011, Sept. 29.

Kingston Products Corporation, assignee: *See*— Weber, Nelson H.

Klessig, Ernst F.: *See*— Gardiner, Duncan B., Klessig, and Parsons.

Klessig, Ernst F., Berkley, assignor to Vickers Incorporated, Detroit, Mich. Sequence valve. 2,653,624, Sept. 29.

Knight, Lorne F., assignor to Massey-Harris Co. Ltd., Toronto, Ontario, Canada. Eccentric pump. 2,653,549, Sept. 29.

Koboa, Frank, Houston, Tex. Screw driver sharpener. 2,653,421, Sept. 29.

Koch, Frederick, Sparta, assignor to C. Todd, Rutherford, N. J., as trustee. Portable scrap chopper. 2,653,660, Sept. 29.

Kögl, Fritz, Utrecht, and C. A. Salemink, Amersfoort, Netherlands, assignors to Hoffmann-La Roche Inc., Nutley, N. J. Pyran derivatives and manufacture thereof. 2,653,943, Sept. 29.

Kögl, Fritz, Utrecht, and C. A. Salemink, Amersfoort, Netherlands, assignors to Hoffmann-La Roche Inc., Nutley, N. J. Pyrononе derivatives and manufacture thereof. 2,643,944, Sept. 29.

Kögl, Fritz, Utrecht, and C. A. Salemink, Amersfoort, Netherlands, assignors to Hoffmann-La Roche Inc., Nutley, N. J. Pyran derivatives. 2,653,945, Sept. 29.

Kolb, Robert W.: *See*— Johnson, Roland, and Kolb.

Kopald, Herman G., executor: *See*— Salfisberg, Leroy L., and David.

Koriath, Edwin G., assignee: *See*— Cooksey, Otha.

Korthe Engineering Company, assignee: *See*— Cooksey, Otha.

Kosmin, Milton, and A. H. Schlesinger, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Herbicides. 2,653,865, Sept. 29.

Kraus, Alphonse, Rochester, N. Y. Booster device for internal-combustion engines. 2,653,589, Sept. 29.

Kraus, Karl J., Las Vegas, Nev. Multiple platform weight analyzer. 2,653,475, Sept. 29.

Krauss, David G., Amana, Iowa. Coin holder. 2,653,703, Sept. 29.

Krautter, Willy F.: *See*— Kamm, Wunibald I. E., Krautter, and Staiger.

Kropa, Edward L., Old Greenwich, and A. S. Nyquist, Cos Cob, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparation of diarylethanes. 2,653,979, Sept. 29.

Kruglick, Harry, Chicago, Ill. Ruffling machine. 2,653,558, Sept. 29.

Kruhmin, Ernest, Hyde Park, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Erosion resisting fan wheel. 2,653,755, Sept. 29.

Kruse, Helmer V., Douglas, Ariz. Casting ejector. 2,653,371, Sept. 29.

Kuebler, James F., Tiffin, Ohio. Cornice and support for curtains and the like. 2,653,656, Sept. 29.

Kunkler, Harry G., Bloomington, Ill., assignor to Eureka Williams Corporation, Detroit, Mich. Suction cleaner conversion arrangement. 2,653,343, Sept. 29.

Kupchick, Edward, Brooklyn, assignor to Benrus Watch Company, Inc., New York, N. Y. Retainer for initials or other indicia, and a watch construction containing same. 2,653,442, Sept. 29.

Kupka, John J., Gladstone, N. J. Heated pressure air-driven power plant. 2,653,448, Sept. 29.

Kysor Heater Company, assignee: *See*— Baldinus, Joseph.

Lachampt, Felix L., Franconville, France, assignor to Union Francaise Commerciale et Industrielle, Casablanca, Morocco. Continuous purification of soap. 2,653,958, Sept. 29.

La Grange, Robert H., assignee: *See*— Truesdell, John G.

L'Air Liquide Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude, assignee: *See*— Etienne, Alfred.

Lamb, Francis X., East Orange, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Sealed instrument. 2,654,070, Sept. 29.

Lancelot, Daniel, Pittsburgh, Pa. Multiple electric plug receptacle. 2,654,074, Sept. 29.

Lancois, Roberto M., Barcelona, Spain. Loose-leaf binding device. 2,653,748, Sept. 29.

Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Treating photosensitive materials by spreading thereon a layer of processing liquid and apparatus for performing said process. 2,653,527, Sept. 29.

Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Single use container having a sealed passage adapted to be unsealed upon application of stress. 2,653 732, Sept. 29.

Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Photographic product comprising a rupturable container carrying a liquid for processing said product. 2,653,872, Sept. 29.

Landis, George G., South Euclid, and N. J. Hoenle, Cleveland Heights, assignors to The Lincoln Electric Company, Cleveland, Ohio. Method and apparatus for arc welding using a plurality of electrodes. 2,654,015, Sept. 29.

Lane, Leslie C., Jr.: *See*— Fugate, Wesley O., and Lane.

Langdon, Eric R., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Hydrodynamic coupling. 2,653,547, Sept. 29.

Lape, Edward W.: *See*— Moore, Richard E., Lape, and Flaugh.

La Rocca, Karl S., East St. Louis, Ill. Clothesline prop. 2,653,785, Sept. 29.

La Viano, Michael J.: *See*— White, Ezekiel F., and La Viano.

Lawrence, John A., and K. M. Heron, London, England. Electromechanical calculating machine. 2,653,761, Sept. 29.

Lawrence, Ray V.: *See*— McKennon, Forrest L., and Lawrence.

Lawson, Andrew J., assignor of one-half to T. R. McKeen, Republic, Wash. Starter gate for race tracks. 2,653,568, Sept. 29.

Leatherman, Clifford C., Flushing, N. Y., and W. Wockenfuss, Union, N. J., assignors, by mesne assignments, to Burroughs Adding Machine Company. Statistical card punch and verifier. 2,653,665, Sept. 29.

Leathers, L. M., Sons, assignee: *See*— Tufts, William F.

Léauté, Jean, Vincennes, and P. L. Vandamme, Le Perreux sur Marne, France, assignors to Eastman Kodak Company, Rochester, N. Y. Light-sensitive photographic element. 2,653,873, Sept. 29.

Le Blond, R. K., Machine Tool Co., The, assignee: *See*— Meyer, Walter R., and Siekmann.

Lee, John, Essex Fells, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Thioisonicotinamide. 2,653,942, Sept. 29.

Lee, Robert E., Cleveland, Ohio. Foam creating apparatus. 2,653,848, Sept. 29.

Lehrman, Harry, Jersey City, N. J., Loading and unloading elevator for trucks. 2,653,678, Sept. 29.

Leignton, Charles R. and N. D., Limestone, Maine. Pneumatic potato separating machine. 2,653,712, Sept. 29.

Leighton, Noel D.: *See*— Leighton, Charles R. and N. D.

Lens, Georges X.: *See*— Bracke, Oscar J. J., and Lens.

Levand, Victor A., Jr.: *See*— Bechard, Conrad E., and Levand.

Levy, Maurice M., Earls Court, assignor to The General Electric Company Limited, London, England. Pulse generating and selecting apparatus. 2,654,028, Sept. 29.

Lichty, Lyall J.: *See*— Lindsley, Thayer, and Lichty.

Lichty, Lyall J., Ottawa, Ontario, Canada, assignor to Northfield Mines, Inc., New York, N. Y. Recovery of metals from metallurgical slag. 2,653,868, Sept. 29.

Lievsay, Claude, Jr., Ventura, Calif. Bedclothes holder. 2,653,363, Sept. 29.

Lilliendahl, William C.: *See*— Gregory, Edward D., Lilliendahl, and Wroughton.

Lilly, Eli, and Company, assignee: *See*— Bunch, Robert L., and McGuire.

Lincoln Electric Company, The, assignee: *See*— Landis, George G., and Hoenle.

Lindenmayr, Hans I.: *See*— Hager, Karl F., Lindenmayr, and Rosenthal.

Lindsay, Donald E., Bala-Cynwyd, assignor to Murlin Manufacturing Co., Philadelphia, Pa. Display device. 2,653,783, Sept. 29.

Lindsley, Thayer, New York, N. Y., and L. J. Lichty, Ottawa, Ontario, assignors to Quebec Metallurgical Industries Limited, Toronto, Ontario, Canada. Reduction of metal oxides. 2,653,867, Sept. 29.

Lineweaver, Hans: *See*— Hanson, Helen L., and Lineweaver.

Linke, Gerhard, Mulheim an der Ruhr, assignor to Alfried Krupp von Bohlen und Halbach, doing business as Fried. Krupp, Essen, Germany. Swinging device for vibratory conveyers and the like. 2,653,702, Sept. 29.

Linquist, William A., Minneapolis, Minn. Wheel chair with detachable armrest. 2,653,649, Sept. 29.

Little, Arthur D., Inc., assignee: *See*— Harford, Charles G.

Little Rock Basket Company, assignee: *See*— De Haven, Robert H.

Lockheed Aircraft Corporation, assignee: *See*— Pittman, Kenneth F. Price, Nathan C.

Lomax, Clarence E., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Sequence switch circuit. 2,654,001, Sept. 29.

Long, William, Waldo, Wis. Boom and rudder assembly. 2,653,563, Sept. 29.

Lorig, Edwin T., Ross Township, Allegheny County, Pa., assignor to United States Steel Corporation. Automatic self-centering roll. 2,653,814, Sept. 29.

Louque, Eliska, assignee: *See*— Buchel, Jules.

Love, John, assignor to K. A. C. Limited, Hillington, Glasgow, Scotland. Toggle fastener. 2,653,842, Sept. 29.

Lu, Yen-Shen, New York, N. Y. Portable foldable shopping basket. 2,653,826, Sept. 29.

Lubszynski, Hans G.: *See*— McGee, James D., White, Lubszynski, Webley, and Huntley.

Luckow, Joseph, assignee: *See*— Masini, Joseph.

Luke, Oren V.: *See*— Mitchell, Robert L., and Luke.

Lull, Le Grand H., Minneapolis, Minn. Tilting mechanism for tractor loaders. 2,653,722, Sept. 29.

Lynch Corporation, assignee: *See*— Sandberg, Oscar. Taggart, Robert E.

Lynch, George E., Los Angeles, Calif. Gas cleaning apparatus. 2,653,675, Sept. 29.

MacArthur, Thomas F., Troy, assignor to Ramsey Chain Company, Inc., Albany, N. Y., Silent chain. 2,653,485. Sept. 29.

Macdonald, Herbert G., assignor to Amco Development Company, Monrovia, Calif. Flooring. 2,653,358, Sept. 29.

MacDonald, Robert, Rochester, Mich. Measuring and filling device. 2,653,746, Sept. 29.

Machado, Anthony B., San Leandro, and F. J. Prnellage, Oakland, Calif., assignors to Friden Calculating Machine Co., Inc. Dividend aligning mechanism. 2,653,765, Sept. 29.

Mackay, Johnstone S., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Guanidine sulfate from urea and sulfur dioxide. 2,653,976, Sept. 29.

MacLean, Alexander F., Corpus Christi, Tex., assignor to American Cyanamid Company, New York, N. Y. Preparation of ammeline. 2,653,936, Sept. 29.

Maeder, Arthur: *See*— Albrecht, Otto, and Maeder.

Mahoff, George A.: *See*— Christophersen, Clarence E., and Mahoff.

Maida, Charles J., Dorchester, Mass. Nozzle attachment. 2,653,747, Sept. 29.

Malstrom, Carl W., Kansas City, Mo. Internal-combustion engine. 2,653,590, Sept. 29.

Manning, Dave M., Hysham, Mont. Vertically adjustable truck trailer. 2,653,827, Sept. 29.

Manning, William H., Birmingham, and K. L. Hulsing, Plymouth, assignors to General Motors Corporation, Detroit, Mich. Drive seal retainer. 2,653,728, Sept. 29.

Marhofer, Edwin G., Fredonia, Kans., and J. C. Hillyer, Bartlesville, Okla., assignors to Phillips Petroleum Company. Drying oil compositions. 2,653,956, Sept. 29.

Markarian, Moushy: *See*— Ross, Sidney D., Markarian, and Nazzewski.

Marlow, Alfred S., Jr., Ridgewood, N. J. Self-priming pump. 2,653,546, Sept. 29.

Marman Products Company, Inc., assignee: *See*— Christophersen, Clarence E., and Mahoff.

Marquette Metal Products Company, The, assignee: *See*— Moulton, Lloyd J. Sacchini, Columbus R.

Marsh, Clifford J., Houston, Tex., assignor to Bemis Bro. Bag Co., St. Louis, Mo. Preparation of engraved rubber printing plates. 2,653,871, Sept. 29.

Marshall, Richard P., Columbia, Ky. Electric-hydraulic beauty chair. 2,653,648, Sept. 29.

Martin, Erle, West Hartford, and T. B. Rhines, Glastonbury, assignors to United Aircraft Corporation, East Hartford, Conn. Pitch lock. 2,653,671, Sept. 29.

Martin, Gilbert F., Jonesville, Mich. Vehicle towage control. 2,653,822, Sept. 29.

Martin, Glenn L., Company, The, assignee: *See*— Kanode, Albert E., and Matson. Pepersack, Francis J.

Martin, José S., and A. L. Sanz, Buenos Aires, Argentina. Adjustable speed mechanism. 2,653,487, Sept. 29.

Martin, Joseph A., Nicolet, Quebec, Canada, assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 2,653,513, Sept. 29.

Martin, William L., assignor of one-fourth to L. B. Hollowell, Gastonia, N. C. Electrically heated windshield wiper. 2,654,016, Sept. 29.

Masini, Joseph, Weehawken, N. J., assignor to J. Luckow, conducting business under the name of Victory Hat Block Company, New York, N. Y. Method and means for blocking hats. 2,653,737, Sept. 29.

Massey-Harris Co. Ltd., assignee: *See*— Knight, Lorne F.

Mathieson, James C., Pleasantville, assignor to The Norden Laboratories Corporation, White Plains, N. Y. Temperature-compensated gyroscope. 2,653,481, Sept. 29.

Mathieson Chemical Corporation, assignee: *See*— Thomas, Robert M.

Matson, Carroll H.: *See*— Kanode, Albert E., and Matson.

Matthews, Kenneth A., and C. D. White, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Electric semiconductor. 2,653,374, Sept. 29.

Maumee Development Company, assignee: *See*— Balch, Clyde W.

Maxant, Richard C., Ayer, Mass. Swatch cutting machine. 2,653,663, Sept. 29.

Mayer, Harry F., Baldwinsville, N. Y., assignor to the United States of America as represented by the Secretary of the United States Air Force. Overload reset circuit. 2,654,052, Sept. 29.

Maytag Company, The, assignee: *See*— Smith, Thomas R.

Mazzocco, Leandro, Rosedale, N. Y. Air reatomizer for use in internal-combustion engines. 2,653,621. Sept. 29

McBride, Richard A., Alton, Ill. Self-unloading truck body. 2,653,724, Sept. 29.

McCarthy, Angeline T., Oak Park, Ill. Necktie construction. 2,653,325, Sept. 29.

McCullough, Stirling E., assignor to Brown and Root, Inc., Houston, Tex. Pedestal. 2,653,451, Sept. 29.

McCune, William J., Jr., South Lincoln, assignor to Polaroid Corporation, Cambridge, Mass. Composite photographic print-receiving sheet. 2,653,530, Sept. 29.

McCurdy, William H., Caldwell, J. H. Findlay, Upper Montclair, and L. C. Werner, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Radiation counter. 2,654,041, Sept. 29.

McCusker, John H., Dallas, Pa., assignor to Native Laces & Textiles, Incorporated, New York, N. Y. Apparatus for separating pieces of fabric joined by soluble threads. 2,653,466, Sept. 29.

McDonald, John E., West Newton, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Axial flow fan regulator. 2,653,754, Sept. 29.

McDonnell Aircraft Corporation, assignee: *See*— Barkey, Herman D. Scherberg, Max G.

McEvoy Company, assignee: *See*— Eichenberg, Robert.

McGee, Dean A., O. Danielson, and T. Seale, assignors to Kerr-McGee Oil Industries, Inc., Oklahoma City, Okla. Apparatus for drilling wells. 2,653,796, Sept. 29.
McGee, James D., Ealing, London, E. L. C. White, Iver, H. G. Lubszynski, Northwood, R. S. Webley, Hayes, and K. G. Huntley, Harlington, Hayes, assignors to Electric & Musical Industries Limited, Hayes, England. Circuits embodying cathode potential stabilized electron discharge devices. 2,654,048, Sept. 29.
McGraw Electric Company, assignee: *See*—
Mertens, Henry W.
McGuire, James M.: *See*—
Bunch, Robert L., and McGuire.
McGuire, John S., Kansas City, Kans. Landing mat. 2,653,525, Sept. 29.
McIntosh, Frank H., Chevy Chase, Md. Wide band transformer. 2,654,058, Sept. 29.
McIntyre, William D., assignor to Patent Development Company, Monroe, Mich. Shock absorber. 2,653,681, Sept. 29.
McKay Machine Company, The, assignee: *See*—
Miller, Harvey D., and Holdgate.
McKeen, Theodore R., assignee: *See*—
Lawson, Andrew J.
McKennon, Forrest L., New Orleans, La., and R. V. Lawrence, Lake City, Fla., assignors to the United States of America as represented by the Secretary of Agriculture. Hydroperoxy-substituted rosin materials and their production. 2,653,922, Sept. 29.
McKinnie, Roxton, Santa Monica, Calif. Latch construction for folding ironing boards. 2,653,399, Sept. 29.
McLoad, Kenneth W., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Multiterminal seismic cable connector system. 2,654,077, Sept. 29.
McMahon, Lorette C., Chicago, Ill. Baby bib. 2,653,324, Sept. 29.
McReynolds, Leo A.: *See*—
Trimble, Harold M., McReynolds, and Mitacek.
McReynolds, Welton R., Fairborn, Ohio. Smoking pipe stem. 2,653,615, Sept. 29.
Meckstroth, Carl R.: *See*—
Flaws, John, Jr., and Meckstroth.
Medina S. A., assignee: *See*—
Casas-Robert, Ramon, and Court.
Meinsinger, Jacob, and W. J. Voorheis, Detroit, assignors to Ford Motor Company, Dearborn, Mich. Automatic choke air heater. 2,653,588, Sept. 29.
Meisenheimer, Raymond L., Haddonfield, N. J., assignor to Radio Corporation of America. Direct coupled modulation system. 2,654,072, Sept. 29.
Melamed, Sam, Cleveland Heights, Ohio. Cam operated synchro-ring staking tool. 2,653,493, Sept. 29.
Melamed, Sidney: *See*—
Drake, Nathan L., and Melamed.
Melikian, Khoren C., assignee: *See*—
Rudd, Lloyd K., and Melikian.
Mercier, Ernest, and M. Ehlinger, Paris, France, assignors, by mesne assignments, to Moore, Inc., Atlanta, Ga. Thermal power generation. 2,653,443, Sept. 29.
Merck & Co., Inc., assignee: *See*—
Holland, Arnold J.
Rogers, Edward F., and Conbere.
Mertens, Henry W., Auburn, Maine, assignor to McGraw Electric Company. Combined fuse and demand meter. 2,654,068, Sept. 29.
Meyer, Walter R., Hamden, assignor to Enthone, Incorporated, New Haven, Conn. Etching aluminum using saccharic acid as a modifier. 2,653,860, Sept. 29.
Meyer, Walter R., Hamden, assignor to Enthone, Incorporated, New Haven, Conn. Etching aluminum using hexahydroxyheptanoic acid as a modifier. 2,653,861, Sept. 29.
Meyer, Walter R., and H. J. Siekmann, assignors to The R. K. Le Blond Machine Tool Co., Cincinnati, Ohio. Work handling apparatus for crankshaft lathes. 2,653,502, Sept. 29.
Middendorf, Henry B., assignor to Scaffold Equipment Company, Pittsburgh, Pa. Clamp. 2,653,839, Sept. 29.
Mid-States Gummed Paper Company, assignee: *See*—
Vetter, Robert E.
Miehle Printing Press & Manufacturing Company, assignee: *See*—
Peyrebrune, Henri E.
Milander, John E., and J. W. Gaba, Oakland, Calif. Utility unit for electric appliances and the like. 2,654,056, Sept. 29.
Milchin, Jack, Montreal, Quebec, Canada. Bottle carrying carton. 2,653,749, Sept. 29.
Miller, Harvey D., Youngstown, and J. C. Holdgate, Cortland, assignors to The McKay Machine Company, Youngstown, Ohio. Apparatus for uncoiling sheet metal. 2,653,643, Sept. 29.
Miller, Samuel, New York, and A. C. Emelin, Mamaroneck, assignors to Schenley Industries, Inc., New York, N. Y. Insufflator. 2,653,608, Sept. 29.
Miller, William C., Pittsburgh, Pa. Linked endless flexible conveyer. 2,653,699, Sept. 29.
Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, assignee: *See*—
Barr, Guy.
Harding, George N., and Thal.
Minneapolis-Honeywell Regulator Company, assignee: *See*—
Abdo, Joseph T.
Burdick, Edwin C.
Gille, Willis H.
Rivenburg, Douglas W.
Minnesota Mining & Manufacturing Company, assignee: *See*—
Hendricks, James O., and Schmeizle.
Miskovsky, Anton: *See*—
Zimic, Michael, and Miskovsky.
Mitacek, Bill: *See*—
Trimble, Harold M., McReynolds, and Mitacek.
Mitchell, Robert L., and O. V. Luke, Corpus Christi, Tex., assignors to Celanese Corporation of America, New York, N. Y. Oxidation control. 2,653,962, Sept. 29.
Molins Machine Company Limited, assignee: *See*—
Best, Cyril.
Monahan, John A., Pittsford, assignor of fifty percent to M. J. Delliveneri, Rutland, Vt. Ice fishing jack. 2,653,405, Sept. 29.
Monroe, Kenneth P., Boston, assignor to Standard Dyewood Company, Medford, Mass. Tanning materials and preparing the same. 2,653,967, Sept. 29.
Monsanto Chemical Company, assignee: *See*—
Dazzi, Joachim.
Doerr, Edward L.
Fields, Joseph E., and Patrick.
Hedrick, Ross M.
Kosmin, Milton, and Schlesinger.
Mowry, David T., and Ringwald.
Mowry, David T., and Schlesinger.
Ott, John B.
Richardson, George A.
Schlesinger, Arthur H.
Taylor, Keith M., and Walker.
Moon, Sterling C., Worthington, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Loading machine. 2,653,696, Sept. 29.
Moon, Sterling C., Worthington, Ohio, assignor to The Jeffrey Manufacturing Company. Kerf cutting mining machine, including mechanism for removing kerf cuttings therefrom. 2,653,807, Sept. 29.
Moore, Coleman B., Carroll Park, assignor to Moore Products Co., Philadelphia, Pa. Positioner for fluid operated motors. 2,653,578, Sept. 29.
Moore, Frank J., and H. V. Hess, Beacon, assignors to The Texas Company, New York, N. Y. Recovering oxygenated organic compounds. 2,653,959, Sept. 29.
Moore, Inc., assignee: *See*—
Mercier, Ernest, and Ehlinger.
Moore Products Co., assignee: *See*—
Moore, Coleman B.
Moore, Richard E., Dayton, E. W. Lape, Piqua, and O. F. Flaugh, West Milton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Accumulator feathering system for variable pitch propeller control. 2,653,669, Sept. 29.
Moore, William R., Jr., deceased, Hagerstown, Md.; W. R. Moore, III, administrator. Fluid control system and valve. 2,653,580, Sept. 29.
Moore, William R., III, administrator: *See*—
Moore, William R., Jr.
Morelock, Oliver J., Short Hills, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Moisture testing apparatus. 2,654,054, Sept. 29.
Morgan, Thomas D., Oak Ridge, Tenn., assignor to Phillips Petroleum Company. Process and means for regulating the gas pressure in containers. 2,653,620, Sept. 29.
Morrill, Lyall D., Fort Wayne, Ind. assignor to O. B. Morrill. Fan blade mounting. 2,653,459, Sept. 29.
Morrill, Olga B., assignee: *See*—
Morrill, Lyall D.
Morrison, Elizabeth M., Pontiac, Ill. Glove. 2,653,601, Sept. 29.
Morton, George E., North Royalton, assignor to Designers for Industry, Inc., Cleveland, Ohio. Circuit tuning device. 2,654,034, Sept. 29.
Mott, Lawrence F., Walton, Stone, assignor to H. M. Hobson Limited, London, England. Hydraulic pump. 2,653,543, Sept. 29.
Mott, Raymond A., Mead, Wash. Rotatable tool support having positive latch means. 2,653,634, Sept. 29.
Moult, Eric S.: *See*—
Halford, Frank B., and Moult.
Moulton, Lloyd J., Mentor, assignor to The Marquette Metal Products Company, Cleveland, Ohio. Electromagnetically actuated control for servomechanisms. 2,653,579, Sept. 29.
Mowry, David T., and A. H. Schlesinger, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Allyl furfurylidenecyanoacetate herbicide. 2,653,866, Sept. 29.
Mowry, David T., and E. L. Ringwald, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. N-exo-dihydrodicyclopentadienylacrylamide. 2,653,975, Sept. 29.
Mueller, Arthur C., Des Plaines, assignor to Bell & Howell Company, Chicago, Ill. Photographic and view finder lens turret coupling for photographic cameras. 2,653,528, Sept. 29.
Mueller Co., assignee: *See*—
Bowan, Walter J., and Gould.
Mueller, Frank H.

Mueller, Frank H., assignor to Mueller Co., Decatur, Ill. Valve. 2,653,791, Sept. 29.
Mullins, William D., Jr., Downey, C. K. West, Santa Monica, J. M. Slater, Inglewood, and G. S. Perkins, Altadena, Calif., assignors to North American Aviation, Inc. Antenna mount. 2,654,031, Sept. 29.
Mureau, Charles A., Van Nuys, Calif. Make-up holder and applicator. 2,653,339, Sept 29.
Murlin Manufacturing Co., assignee: *See*—
Lindsay, Donald E.
Murphy, Clayton L., Sr.: *See*—
Hippen, Ralph W., and Murphy.
Myrick, George H., Rochester, Minn. Pinch clamp. 2,653,787, Sept. 29.
NEA Service, Inc., assignee: *See*—
Nelson, Arthur E., and Stadtler.
Nabenhauer, Fred P.: *See*—
Craig, Paul N., and Nabenhauer.
Nallinger, Friedrich K. H., Stuttgart, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Engine part or casing. 2,653,586, Sept. 29.
National Battery Company, assignee: *See*—
Rupp, John L.
National-Standard Company, assignee: *See*—
Frazier, Larry C.
Native Laces & Textiles, Incorporated, assignee: *See*—
McCusker, John H.
Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Smith, Thomas C.
Nazzewski, Mathew: *See*—
Ross, Sidney D., Markarian, and Nazzewski.
Nelson, Alfred N., Flushing, N. Y. Nut opener. 2,653,638, Sept. 29.
Nelson, Arthur E., Euclid, and H. G. Stadtler, Rocky River, assignors to NEA Service, Inc., Cleveland, Ohio. Matrix. 2,653,394, Sept. 29.
Nelson, Edgar A., New York, assignor to American Safety Razor Corporation, Brooklyn, N. Y. Single-edge blade dispenser. 2,653,704, Sept. 29.
Nelson, Elmer G., Lindsborg, Kans. Fastening unit for toilet fixtures. 2,653,835, Sept. 29.
Nemmer, Albert W., Cheektowaga, N. Y. Furniture construction. 2,653,651, Sept. 29.
New York Air Brake Company, The, assignee: *See*—
Rossman, Oscar E.
Newman, Douglas A., Sea Cliff, assignor to Columbia Ribbon and Carbon Manufacturing Company, Inc., Glen Cove, N. Y. Manifolding. 2,653,830, Sept. 29.
Newman, Melvin S., Columbus, Ohio, and W. B. Wheatley, Syracuse, N. Y., assignors to the United States of America as represented by the Secretary of the Army. Insect repellents. 2,653,894, Sept. 29.
Newmont Mining Corporation, assignee: *See*—
Brant, Arthur A.
Nicoll, Ida J., Framingham, Mass. Sponge mop and the like. 2,653,341, Sept. 29.
Niemeier, James R., Evansville, Ind. Portable hod rack. 2,653,781, Sept. 29.
Nineberg, Edward, assignor to B. Sugarman, Chicago, Ill. Copyholder with two-way cover. 2,653,509, Sept. 29.
Nolan, Charles, Jacksonville, Fla. Seat-attached bassinet. 2,653,330, Sept. 29.
Norden Laboratories Corporation, The, assignee: *See*—
Mathiesen, James C.
North American Aviation, Inc., assignee: *See*—
Cunningham, Gale C., and Kilmer.
Mullins, William D., Jr., West, Slater, and Perkins.
Northfield Mines, Inc., assignee: *See*—
Lichty, Lyall J.
Northrop Aircraft, Inc., assignee: *See*—
Riles, Ira M., and Stratton.
Novy, Richard J.: *See*—
Tinsman, Jack R., Novy, and Thurlow.
Nyquist, Arthur S.: *See*—
Kropa, Edward L., and Nyquist.
O'Callaghan, Matthew J., Jr., administrator: *See*—
Hudlow, Clair W.
O-Cel-O, Inc., assignee: *See*—
Bitzer, Jack A., and Weistmann.
Odevseff, Alec S., assignor to Beech Aircraft Corporation, Wichita, Kans. Controllable pitch propeller. 2,653,670, Sept. 29.
Odom, Marvin W., Roswell, Ga. Comb box mechanism. 2,653,354, Sept. 29.
Ograbiss, Stephen J., Hamburg, N. Y. Apparatus for removing tendons from fowl. 2,653,346, Sept. 29.
Ohio Boxboard Company, The, assignee: *See*—
Hickin, Robert J.
Ohio Crankshaft Company, The, assignee: *See*—
Body, Alfred C.
Oishei, John R., Buffalo, N. Y. Accessory system and filter therefor. 2,653,444, Sept. 29.
Olin, John F., Grosse Ile, Mich., assignor to Sharples Chemicals Inc. Vulcanization accelerators. 2,653,924, Sept. 29.
Olin, John F., Grosse Ile, Mich., assignor to Sharples Chemicals Inc. Vulcanization accelerators. 2,653,925, Sept. 29.
Olson, Harold G., Van Nuys, Calif. Hand guard. 2,653,320, Sept. 29.
Orchoff, Jacob H., Providence, R. I. Clutch clasp construction. 2,653,367, Sept. 29.
Ortgies, Raymond C., Homewood, Ill., assignor to Whiting Corporation. Suppressor for solid particles and fumes. 2,653,674, Sept. 29.
Oslund, Willis L., Forest Lake, Minn. Fish net. 2,653,403, Sept. 29.
Ott, John B., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Preparing the N-carboxyphenylalanine anhydrides. 2,653,947, Sept. 29.
Overman, Horace W., and C. G. Wolgamott, Columbus, Ohio, assignors, by mesne assignments, to Bigelow, Inc. Apparatus for bonding linings to brake shoes. 2,653,644, Sept. 29.
Owens-Corning Fiberglas Corporation, assignee: *See*—
Essman, Harold W.
Philipps, Thomas E.
Simison, Allen L.
Slayter, Games.
Owens-Illinois Glass Company, assignee: *See*—
Spalding, Richard O.
Pabco Products Inc., assignee: *See*—
Hoopes, Harry P.
Palmer, Dale A.: *See*—
Whisler, Ralph H., Jr., and Palmer.
Parsons, Henry C.: *See*—
Cardiner, Duncan B., Klessig, and Parsons.
Partington, Harold, Chadderton, England. Means for doffing ring frames. 2,653,440, Sept. 29.
Parties, Arnold B., Bradford, assignor to Yost Manufacturing Company, Meadville, Pa. Removable faceplate for vise jaws. 2,653,499, Sept. 29.
Patent Development Company, assignee: *See*—
McIntyre, William D.
Whisler, Ralph H., Jr. and Palmer.
Patrick, Tracy M., Jr.: *See*—
Fields, Joseph E., and Patrick.
Pax, William J., Celina, Ohio. Hog feeder. 2,653,571, Sept. 29.
Peery, Walter E., Morristown, N. J. Printing system for photocomposing machines or the like. 2,653,526, Sept. 29.
Peickii, Vasalie L.: *See*—
Roshong, Raymond G., and Peickii.
Pellegrini, Domenick, Yonkers, N. Y. Splash mixer for dental castings. 2,653,361, Sept. 29.
Pelouse Manufacturing Co., assignee: *See*—
Adams, Bruce P.
Pelts, Gordon M., Flushing, and H. Bovin, New York, N. Y., assignors to Bridgeport Brass Company, Bridgeport, Conn. Intermittent fluid discharge device. 2,653,625, Sept. 29.
Penn Controls, Inc., assignee: *See*—
Hottenroth, Frederick W.
Penn, Ralph S.
Penn, Ralph S., assignor to Penn Controls, Inc., Goshen, Ind. Gas burner control. 2,653,768, Sept. 29.
Pepersack, Francis J., Towson, assignor to The Glenn L. Martin Company, Middle River, Md. Aircraft fuel storage system. 2,653,780, Sept. 29.
Perkins, Gerald S.: *See*—
Mullins, William D., Jr., West, Slater, and Perkins.
Peterson, Adolphe C., Edina, Minn. Motor and drive transmission arrangement between axially aligned vehicle driving wheels. 2,653,673, Sept. 29.
Peyrebrune, Henri E., River Forest, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Form roller and cylinder tripping mechanism. 2,653,537, Sept. 29.
Peyrebrune, Henri E., River Forest, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Printing cylinder adjustment and locking means. 2,653,538, Sept. 29.
Pfaff, Henry C., Jr., Summit, N. J. Highway lighting device and making same. 2,653,782, Sept. 29.
Phaneuf, Joseph R., Southbridge, Mass. Fishing net. 2,653,404, Sept. 29.
Philipps, Thomas E., Granville, Ohio, assignor to Owens-Corning Fiberglas Corporation. Battery plate separator. 2,653,985, Sept. 29.
Philipps, Thomas E., Granville, Ohio, assignor to Owens-Corning Fiberglas Corporation. Battery plate separator. 2,653,986, Sept. 29.
Phillips, Arthur P.: *See*—
Castillo, Julio C., and Phillips.
Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Machine for knurling pistons. 2,653,495, Sept. 29.
Phillips Petroleum Company, assignee: *See*—
Condon, Francis E.
Edmunds, Edward, Jr.
Fleming, Harold W.
Hogan, John P.
Kilpatrick, Myron O.
Marhofer, Edwin G., and Hillyer.
Morgan, Thomas D.
Trimble, Harold M., McReynolds, and Mitacek.
Picucci, Domenico, Philadelphia, Pa. Tape guiding apparatus. 2,653,559, Sept. 29.
Pietzsch, Frank H., Clayton, assignor to Western Railway Equipment Company, St. Louis, Mo. Draft key retainer. 2,653,505, Sept. 29.
Pigott, Reginald J. S., assignor to Gulf Research & Development Company, Pittsburgh, Pa. Applying cutting liquids. 2,653,517, Sept. 29.

Pine, Cecil C., Lake Ronkonkoma, and C. L. Sharp, Setauket, N. Y., assignors to The Sperry Corporation. Safety device for instrument approach systems. 2,654,086, Sept. 29.

Pipe Line Service Corporation, assignee: *See*— Robertson, Evans.

Piperoux, Rene P., Radburn, N. J., assignor to Celanese Corporation of America, New York, N. Y. Apparatus for forming pellets of plastic material. 2,653,350, Sept. 29.

Pittman, Kenneth F., North Hollywood, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Indirect instrument illumination. 2,654,020, Sept. 29.

Platt, Stephen A., Wheaton, Ill., assignor to Wilbur B. Driver Company, Newark, N. J. Apparatus for forming wire coils. 2,653,630, Sept. 29.

Polaroid Corporation, assignee: *See*— Hyman, Mark, Jr. Land, Edwin H. McCune, William J., Jr.

Polhemus, John T., Peoria, Ill. Automatic poultry waterer. 2,653,572, Sept. 29.

Pollak, Christine, Perth Amboy, N. J. Garment hanger. 2,653,738, Sept. 29.

Polomski, John B., Jr., Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Self-centering clutch disk. 2,653,692, Sept. 29.

Precious, Harry H., Wisconsin Rapids, Wis. Fisherman's plier type shot splitting tool. 2,653,332, Sept. 29.

Precision Cosmet Company, Inc., assignee. *See*— Anderson, Albert L., and Holmen.

Pressler, Ralph B., assignor to Bowser, Inc., Fort Wayne, Ind. Automatic meter compensating mechanism. 2,653,476, Sept. 29.

Presto Industries, Inc., assignee: *See*— Burreson, Zina.

Price, Nathan C., St. Helena, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Compressor and fuel control system for high-pressure gas turbine power plants. 2,653,446, Sept. 29.

Privett, Herbert L.: *See*— Clarke, Maurice G., and Privett.

Pruellage, Frank J.: *See*— Machado, Anthony B., and Pruellage.

Purkhiser, Roy C., Cleveland, Ohio. Insulated pipe union. 2,653,834, Sept. 29.

Putnam, F. A., Mfg. Co. Inc., assignee: *See*— Johnson, Carl R.

Pyror Limited, assignee: *See*— Aannerud, Sigurd A.

Quebec Metallurgical Industries Limited, assignee: *See*— Lindsley, Thayer, and Lichty.

Quirk, Justin P., and L. G. P. Hafner, assignors, by mesne assignments, to Quirk Machinery Company, St. Louis, Mo. Shoe heel surfacing machine. 2,653,424, Sept. 29.

Quirk Machinery Company, assignee: *See*— Quirk, Justin P., and Hafner.

Radics, Stephen, executor: *See*— Schmidt, Paul.

Radio Corporation of America, assignee: *See*— Meisenheimer, Raymond L. Schroeder, Alfred C., and Szikiai.

Radio Frequency Laboratories, Inc., assignee: *See*— Higgins, Charles A.

Ramirez, Miguel A., Sr., El Paso, Tex. Cotton picker nozzle. 2,653,438, Sept. 29.

Ramsey Chain Company, Inc., assignee: *See*— MacArthur, Thomas F.

Randria, Xavier: *See*— Bonin, Pierre, and Randria.

Rasmussen, Carlton A., and R. T. Doughty, assignors to General Motors Corporation, Detroit, Mich. Valve spring surge damping and valve rotating device. 2,653,587, Sept. 29.

Rau Fastener Company, assignee: *See*— Reiter, Harold J.

Ray, William A., North Hollywood, Calif., assignor to General Controls Co. Automatic safety valve for fuel burners. 2,653,622, Sept. 29.

Raytheon Manufacturing Company, assignee: *See*— Batchelder, Laurence.

Rea, Arthur A., Portland, Oreg. Auxiliary slip-on handle for screw drivers and similar tools. 2,653,637, Sept. 29.

Reeves, Thomas F., Cincinnati, Ohio. Excavator. 2,653,795, Sept. 29.

Reinhard, Wolfgang, Pforzheim, Germany, assignor to International Standard Electric Corporation, New York, N. Y. Saw-tooth wave generator. 2,654,050, Sept. 29.

Reiter, Gertrude, administratrix: *See*— Reiter, Harold J.

Reiter, Harold J., deceased, Chicago, Ill.; G. Reiter, administratrix, assignor to Rau Fastener Company, Providence, R. I. Prong cap for snap fasteners. 2,653,366, Sept. 29.

Republic Steel Corporation, assignee: *See*— Schaefer, Walter S.

Reznicek, Antone F.: *See*— Tebbetts, Herbert E., Jr., and Reznicek.

Rhines, Thomas B.: *See*— Martin, Erle, and Rhines.

Richardson, George A., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Preparing the N-carboxyglycine anhydride. 2,654,946, Sept. 29.

Richmond Manufacturing Company, assignee: *See*— Crampton, David.

Richter, Joseph, Fairlawn, N. J., assignor to the United States of America as represented by the Secretary of the Army. Pressure responsive cover for containers. 2,653,729, Sept. 29.

Rider, Clifford M., Kansas City, Mo. Shock stabilizer for vehicle axles. 2,653,811, Sept. 29.

Riles, Ira M., Manhattan Beach, and D. W. Stratton, Inglewood, assignors to Northrop Aircraft, Inc., Hawthorne, Calif. High-speed grid camera. 2,653,507, Sept. 29.

Ringwald, Clarence, Springfield, Ohio. Safety signal appartaus for motor vehicles. 2,654,079, Sept. 29.

Ringwald, Eugene L.: *See*— Mowry, David T., and Ringwald.

Rivenburg, Douglas W., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electronic amplifying apparatus. 2,654,057, Sept. 29.

Robbins, James S., Highland Park, assignor to Goodman Manufacturing Company, Chicago, Ill. Coal mining machine with eccentrically mounted disk cutters. 2,653,806, Sept. 29.

Roberts, Bruce, assignor to The International Electronics Company, Philadelphia, Pa. Magnetic recording system. 2,653,819, Sept. 29.

Robertson, Evans, Lombard, assignor to Pipe Line Service Corporation, Franklin Park, Ill. Propelling mechanism. 2,653,720, Sept. 29.

Robinson, Paul C., Canajoharie, N. Y., assignor to Arkell and Smiths. Bag baling machine. 2,653,431, Sept. 29.

Rochow, Arthur J., Pittsford, N. Y. Twine holder. 2,653,776, Sept. 29.

Rodda, Clinton, Los Angeles, Calif. Submerged filter for aquariums. 2,653,908, Sept. 29.

Rodriguez, Emil, assignor to Jacoby-Bender, Inc., New York, N. Y. Adjustable width strap end. 2,653,369, Sept. 29.

Rogers, Edward F., Middletown, and J. P. Conbere, Plainfield, assignors to Merck & Co., Inc., Rahway, N. J. Cortisone esters and process. 2,653,955, Sept. 29.

Rohm & Haas Company, assignee: *See*— Thurmon, Francis M.

Romans, Isabella B., Lafayette Hill, Pa. Applying oligodynamic silver and articles produced thereby. 2,653,893, Sept. 29.

Rooke, Harry V., Fort Worth, Tex. Grass edger and trimmer. 2,653,381, Sept. 29.

Rooms, Eduard A. M., administrator: *See*— Bracke, Oscar J. J., and Lens.

Rosaen, Oscar E., Detroit, Mich., assignor to The New York Air Brake Company, New York, N. Y. Fluid pump. 2,653,551, Sept. 29.

Rosenbaum, Jacob, Spring Valley, N. Y. Q meter. 2,654,066, Sept. 29.

Rosenthal, Morris: *See*— Hager, Karl F., Lindenmayr, and Rosenthal.

Roshong, Raymond G., North Hollywood, and V. L. Peickil, Hollywood, Calif., assignors to Crane Packing Company, Chicago, Ill. Lapping machine construction. 2,653,422, Sept. 29.

Ross, John F., Shaker Heights, and H. W. Sloyer, Willoughby, Ohio, assignors to General Electric Company. Preparation of calcium fluoride. 2,653,857. Sept. 29.

Ross, Sidney D., Williamstown, M. Markarian, North Adams, and M. Nazzewski, Adams, assignors to Sprague Electric Company, North Adams, Mass. Liquid dielectric compositions. 2,653,912, Sept. 29.

Ross, William R.: *See*— Wagner, Adolph A., Werner, and Ross.

Rost, Otto W., Chicago, Ill., assignor to Westinghouse Air Brake Company. Highway crossing signal control system. 2,654,023, Sept. 29.

Routt, Arthur, Dundas, Ill. Structural joint. 2,653,686, Sept. 29.

Rowell, William G., Wollaston, assignor of forty-five per cent to M. H. Hamilton, Lexington, Mass. Automatic starting apparatus for internal-combustion engines. 2,654,035, Sept. 29.

Rowles, William, Santa Monica, Calif. Bombproof building structure. 2,653,468, Sept. 29.

Rubber By-Products (Warwickshire) Ltd., assignee: *See*— Alley, Stephen E.

Rubenstein, Leon, Saltcoats, Scotland, assignor to Imperial Chemical Industries Limited. Producing initiating composition containing lead azide. 2,653,863, Sept. 29.

Rudd, Lloyd K., Newtown Square, and K. C. Melikian, Philadelphia, Pa. Mixing funnel for beverage vending machines. 2,653,733, Sept. 29.

Rupp, John L., Williamsville, N. Y., assignor to National Battery Company, St. Paul, Minn. Storage battery and mounting and connection means therefor. 2,653,988, Sept. 29.

Ruth, Acquilla R., York, Pa. Method and apparatus for cleaning radiator tubes and the like. 2,653,420, Sept. 29.

Ryan, George R., Waukegan, Ill. Transfusion apparatus. 2,653,606. Sept. 29.

Sacchini, Columbus R., Willoughby, assignor to The Marquette Metal Products Company, Cleveland, Ohio. Check valve with plug mating a flanged nonmetallic sealing element. 2,653,792, Sept. 29.

St. Clair, Theodore A., South Euclid, assignor to The Weatherhead Company, Cleveland, Ohio. Pressure regulator. 2,653,793, Sept. 29.

Salemink, Cornelis A.: *See*— Kögl, Fritz, and Salemink.

Salfisberg, Leroy L., deceased, South Orange, N. J., (by H. G. Kopald, New York, N. Y., and L. I. Volckening, Glen Ridge, N. J., executors), and E. J. David, Hillside, assignors to Ivers-Lee Company, Newark, N. J. Machine for packaging odd-shaped products. 2,653,434, Sept. 29.

Salmon, Leonard M., McAllen, Tex. Whirling flame spinner. 2,653,655, Sept. 29.

Samcoe Holding Corporation, assignee: *See*— Cohn, Samuel, and Walter.

Sandberg, Nicolay B., Oslo, Norway. Electrically heated steam-bath stove. 2,654,018, Sept. 29.

Sandberg, Oscar, Toledo, Ohio, assignor to Lynch Corporation, Anderson, Ind. Article handling mechanism. 2,653,433, Sept. 29.

Sanders, James F. and J. W., assignors to Sanders Sanitary Company, Sioux Falls, S. Dak. Prefabricated plumbing installation. 2,653,357, Sept. 29.

Sanders, Joseph W.: *See*— Sanders, James F. and J. W.

Sanders Sanitary Company, assignee: *See*— Sanders, James F. and J. W.

Sandman, Eli, Worcester, and E. R. Sykes, Paxton, assignors to Eli Sandman Co., Worcester, Mass. Making buffs. 2,653,425, Sept. 29.

Sandman, Eli, Co., assignee: *See*— Sandman, Eli, and Sykes.

Santiago, James J., assignor to Grant Oil Tool Company, Los Angeles, Calif. Apparatus for determining well pipe perforations. 2,653,474, Sept. 29.

Sanz, Alfonso I.: *See*— Martin, José S., and Sanz.

Saracchi, Vicente A. P., Buenos Aires, Argentina. Motor transmission. 2,653,690, Sept. 29.

Sativa Corporation, assignee: *See*— Burkardt, Anton F.

Saurer, Curt, and F. M. Guy, Detroit, Mich., assignors to U. S. Universal Joints Company. Friction type shock absorber. 2,653,684, Sept. 29.

Saxton, Edward S., Coventry, assignor to Armstrong Siddeley Motors Limited, Coventry, Warwickshire, England. Means for adapting machine tools for profiling purposes, 2,653,518, Sept. 29.

Scaffold Equipment Company, assignee: *See*— Middendorf, Henry B.

Schaar, Charles H., assignor to The Cromwell Paper Company, Chicago, Ill. Corrosion inhibiting packaging material and making. 2,653,854, Sept. 29.

Schade, Elmer G., Hainesport, assignor to Schade Machine Works, Mount Holly, N. J. Chuck. 2,653,820, Sept. 29.

Schade Machine Works, assignee: *See*— Schade, Elmer G.

Schaefer, Frederic C.: *See*— Kaiser, Donald W., and Schaefer.

Schaefer, Walter S., Euclid, assignor to Republic Steel Corporation, Cleveland, Ohio. Inert-arc welding of stainless tubing. 2,654,014, Sept. 29.

Schafer, Wilmer H., Philadelphia, Pa. Light switch unit. 2,654,008, Sept. 29.

Schenley Industries, Inc., assignee: *See*— Miller, Samuel, and Emelin.

Scherberg, Max G., Vinita Terrace, assignor to McDonnell Aircraft Corporation, St. Louis, Mo. Intermittent fuel injection valve. 2,653,805, Sept. 29.

Schilke, Arthur G.: *See*— Beckman, William R., Schilke, and Crooks.

Schläpfer, Reinhard, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Water-soluble compound of theophylline and 3-aminomethyl-pyridine and manufacture thereof. 2,653,939, Sept. 29.

Schlesinger, Arthur H.: *See*— Kosmin, Milton, and Schlesinger. Mowry, David T., and Schlesinger.

Schlesinger, Arthur H., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Destroying plants. 2,653,864, Sept. 29.

Schmeisle, Ambrose F.: *See*— Hendricks, James O., and Schmeisle.

Schmidt, Edward, executor: *See*— Schmidt, Paul.

Schmidt, Paul, deceased, Arlington, N. J.; E. Schmidt, S. Radics, and H. Susser, executors. Folding umbrella rib. 2,653,619, Sept. 29.

Schneider, Paul L., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Engine starter control. 2,654,007, Sept. 29.

Schneider, Paul L., and H. J. Cromwell, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Engine starter control. 2,654,036, Sept. 29.

Scholz, Theodore F.: *See*— Hultquist, Martin E., and Scholz.

Schroeder, Alfred C., Feasterville, Pa., and G. C. Szikiai, Princeton, N. J., assignors to Radio Corporation of America. Simultaneous color television optical system. 2,653,993, Sept. 29.

Schroeder, Herman E., Kennett Square, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. 3,4-benzopyrene-1,5-quinone. 2,653,953, Sept. 29.

Schubert, Willi, Berlin-Tegel, Germany. Hydraulic power device. 2,653,581, Sept. 29.

Schwartz, Anthony M., Washington, D. C., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Amide-glycamine condensation products. 2,653,932, Sept. 29.

Scott, Benjamin B., Schenectady, N. Y., assignor to General Electric Company. Winding machine. 2,653,772, Sept. 29.

Seale, Tom: *See*— McGee, Dean A., Danielson, and Seale.

Seelig, Richard P., Elmhurst, assignor to American Electro Metal Corporation, Yonkers, N. Y. Forming metal powder into a fluid guiding body. 2,653,377, Sept. 29.

Segal, Hyman E., New York, N. Y. Antipick cylinder type lock. 2,653,467, Sept. 29.

Segalman, Bernard, Brooklyn, N. Y. Diffuser for ventilating fans. 2,653,757, Sept. 29.

Seltzinger, Harry B., Elmira, N. Y. Can opening and dispensing container. 2,653,731, Sept. 29.

Sejersted, Johannes, and O. C. Böckman, assignors to Elektrokemisk A/S, Oslo, Norway. Production of electrodes. 2,653,878, Sept. 29.

Selgas, Armand L., Brooklyn, N. Y. Cigarette holder attachment for beer cans. 2,653,616, Sept. 29.

Senk, Simon, Mullen, Nebr. Clothes compartment for automobiles. 2,653,741, Sept. 29.

Sharp, Charles L.: *See*— Pine, Cecil C., and Sharp.

Sharples Chemicals Inc., assignee: *See*— Olin, John V.

Shaw, Bernard, Mayfield Heights, Ohio, assignor to General Electric Company. Apparatus for drawing vitreous tubes and rods. 2,653,418, Sept. 29.

Shaw, Joe C.: *See*— Stahn, James A., and Shaw.

Sheehan, William M., Philadelphia, Pa., assignor to General Steel Castings Corporation, Granite City, Ill. Motor crane underframe. 2,653,829, Sept. 29.

Skeleton, Joseph F., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Preparation of a polyvinyl methyl ether. 2,653,923, Sept. 29.

Shell Development Company, assignee: *See*— Airs, Raymond S., and David. Treseder, Richard S. Van Dijck, Willem J. D., and Geyer.

Sherman, Ralph A.: *See*— Hatton, Willard J., and Sherman.

Shimkus, Anthony J.: *See*— Cummings, James J., and Shimkus.

Shockley, William, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Semiconductor signal translating device. 2,654,060, Sept. 29.

Shotton, John C., Lakewood, Ohio. Dental handpiece. 2,653,384. Sept. 29.

Siegal, Norman A., assignor to I. Swartzberg, Chicago, Ill. Apparatus for rapidly moving bottles and similar articles around sharp bends. 2,653,713, Sept. 29.

Siegrist, Adolf E.: *See*— Graenacher, Charles, Bruengger, and Siegrist.

Siekmann, Harold J.: *See*— Meyer, Walter E., and Siekmann.

Silvagi, Joseph, Detroit, Mich. Fixture for generating involutes. 2,653,426, Sept. 29.

Silvius, Paul: *See*— Wallace, James M., and Silvius.

Simison, Allen L., Ottawa Hills, Toledo, Ohio, assignor to Owens-Corning Fiberglas Corporation. Apparatus for determining properties of resins. 2,653,473. Sept. 29.

Simmons, Leon E., Claremont, N. H., assignor to Joy Manufacturing Company. Cutter chain. 2,653,866, Sept. 29.

Sirotak, Edward R.: *See*— Davies, Robert H., and Sirotak.

Skwark, Marion E., Binghamton, N. Y. Venetian blind cover. 2,653,657, Sept. 29.

Slater, John M.: *See*— Mullins, William D., Jr., West, Slater, and Perkins.

Slattery, Remigius J., Tulsa, Okla. Pencil pointer cup. 2,653,576, Sept. 29.

Slayter, Games, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Apparatus for forming glass fiber mats. 2,653,416, Sept. 29.

Slayter, Games, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, Producing tubing. 2,653,887, Sept. 29.

Sliwa, Joseph, Seattle, Wash. Pneumatic boxing glove. 2,653,319. Sept. 29.

Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Idler roller assembly for belt conveyers. 2,653,700, Sept. 29.

Sloyer, Harold W.: *See*— Ross, John F., and Sloyer.

Smidth, F. L., & Co., assignee: *See*— Heilmann, Thorbjorn.

Smith, Arthur E., Los Angeles, Calif. Container closure. 2,653,609, Sept. 29.

Smith, Arthur E., Los Angeles, Calif. Dispensing closure. 2,653,610, Sept. 29.

Smith, Arthur E., Los Angeles, Calif. Closure. 2,653,611, Sept. 29.

Smith, Kline & French Laboratories, assignee: *See*— Craig, Paul N., and Nabenhauer.

Smith, Thomas C., Poughkeepsie, N. Y., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Explosively severable bolt. 2,653,504, Sept. 29.

Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Washing machine. 2,653,483, Sept. 29.

Smoot, John H., Darien, Conn., assignor to Becton Dickinson and Company, Rutherford, N. J. Injection device. 2,653,602, Sept. 29.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Broding, Robert A.
Clewell, Dayton H.
Dodge, Wesley J.
McLoad, Kenneth W.

Sorondo, Marcelo S., curator: *See*—
Gerber, Eugenio.

Sowitsky, Joseph, Millville, N. J. Spring gun. 2,653,592, Sept. 29.

Spalding, Richard O., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Carton and packing cell. 2,653,708, Sept. 29.

Speer Carbon Company, assignee: *See*—
Veley, Hugh N.

Spencer, Corte J., Dundee, N. Y. Cattle leader. 2,653,574, Sept. 29.

Spencer, Lloyd, Hollywood, Calif. Mixing valve. 2,653,628, Sept. 29.

Sperry Corporation, The, assignee: *See*—
Pine, Cecil C., and Sharp.

Sperry-Sun Well Surveying Company, assignee: *See*—
Butterworth, Gilbert J., and Young.

Spiegel, Morry, Brooklyn, N. Y. Amusement device for selective exhibition of figurines. 2,653,413, Sept. 29.

Splaine, Edward M., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 2,653,514, Sept. 29.

Spotnails, Inc., assignee: *See*—
Beckman, William R., and Crooks.
Beckman, William R., Schilke, and Crooks.

Sprague Electric Company, assignee *See*—
Ross, Sidney D., Markarian, and Nazzewski.

Square D Company, assignee: *See*—
Kingdon, Ralph H.

Stadtler, Hans G.: *See*—
Nelson, Arthur E., and Stadtler.

Stahn, James A., and J. C. Shaw, assignors to Young Radiator Company, Racine, Wis. Heat exchanger. 2,653,799, Sept. 29.

Staiger, Kurt: *See*—
Kamm, Wunibald I. E., Krautter, and Staiger.

Stamicarbon N. V., assignee: *See*—
Fontein, Freerk J., and de Gelder.

Standard Container, Inc., assignee: *See*—
Fitch, John C. A.

Standard Dyewood Company, assignee: *See*—
Monroe, Kenneth P.

Standard Machinery Company, The, assignee: *See*—
Davis, Benjamin H.

Standard Oil Company, The, assignee: *See*—
Frazier, David.

Standard Oil Development Company, assignee: *See*—
Bruce, William A.

Staples, Crawford E., Turtle Creek, Pa., assignor to Westinghouse Air Brake Company. Code detecting apparatus. 2,654,081, Sept. 29.

Staschover, Leo., New York, N. Y., and H. A. French, Belleville, N. J., assignors to International Standard Electric Corporation, New York, N. Y. Automatic frequency control system. 2,654,032, Sept. 29.

Stauch, Fritz, Greater Berlin, Germany. Soil irrigation system. 2,653,449, Sept. 29.

Steinmetz, Walter C., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Jig. 2,653,715, Sept. 29.

Stenger, Richard C., assignor to Sutherland Paper Company, Kalamazoo, Mich. Machine for placing dishes in cartons or containers. 2,653,743, Sept. 29.

Sterling Drug Inc., assignee: *See*—
Archer, Sydney.

Stiefelmayer, Eugen, assignor to United Aircraft Products, Inc., Dayton, Ohio. Metalworking machine. 2,653,561, Sept. 29.

Stimson, Noel O., Los Angeles, Calif. Corneal contact lens. 2,653,515, Sept. 29.

Stoker, Curtis B., Shreveport, La. Automatic sugar bowl. 2,653,734, Sept. 29.

Storner, Frederick W., Chicago, Ill. Strainer for coffee makers. 2,653,717, Sept. 29.

Stovall, John R., Jr., Doylestown, and I. Weintraub, Neshaminy, assignors to Tinius Olsen Testing Machine Company, Willow Grove, Pa. Capacity type strain gauge and manufacture. 2,654,060, Sept. 29.

Stover, Hollie B., Centralia, Ill. Cylindrical contact printer. 2,653,529, Sept. 29.

Straitiff, Dorsey E., Beverly Hills, Calif. Well digging apparatus. 2,653,794, Sept. 29.

Stratton, David W.: *See*—
Riles, Ira M., and Stratton.

Strauss, John N., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Telescopic shock absorber. 2,653,683, Sept. 29.

Strom, Barney O.: *See*—
Hanna, Delbert L., and Strom.

Studebaker Corporation, The, assignee: *See*—
Hasbany, Woodrow A.

Stuellein, William H.: *See*—
Tremblay, Bernard G., and Stuellein.

Stumpf, Lucille, assignee: *See*—
Hudlow, Clair W.

Sugarman, Benjamin, assignee: *See*—
Nineberg, Edward.

Sulzer, Georg, assignor to Ciba Limited, Basel, Switzerland. Catalysts for the hardening of artificial resins and their use in the textile industry. 2,653,921, Sept. 29.

Sun Oil Company, assignee: *See*—
Kennedy, Robert M., and Donnell.

Sun Rubber Company, The, assignee: *See*—
Beltz, George W.

Superior Sleeprite Corporation, assignee: *See*—
Wallen Frank.

Susser, Herbert, executor: *See*—
Schmidt, Paul.

Sutherland Paper Company, assignee: *See*—
Stenger, Richard C.

Sutherland, William A., Essex Junction, Vt. Tamper-proof identification tag. 2,653,400, Sept. 29.

Sutherland, William A., Essex Junction, Vt. Identification tag. 2,653,401, Sept. 29.

Svabek, John E., Jr., assignor to Crane Co., Chicago, Ill. Connection for diaphragm valves. 2,653,788, Sept. 29.

Sverdrup, Edward F.: *See*—
Elgin, Joseph C., and Sverdrup.

Swartz, George A., Millington, assignor to Ivers-Lee Company, Newark, N. J. Crimping apparatus. 2,653,646, Sept. 29.

Swartz, George A., Millington, assignor to Ivers-Lee Company, Newark, N. J. Die mounting for crimp-sealing machines. 2,653,647, Sept. 29.

Swartzberg, Irvin, assignee: *See*—
Siegal, Norman A.

Sweeny, Alfred A., Denver, and M. F. Sweeny, Silt, Colo. Teletypewriter. 2,653,997, Sept. 29.

Sweeny, Maurice F.: *See*—
Sweeny, Alfred A. and M. F.

Sykes, Ernest R.: *See*—
Sandman, Eli, and Sykes.

Szikiai, George C.: *See*—
Schroeder, Alfred C., and Szikiai.

Taggart, Robert E., Toledo, Ohio, assignor to Lynch Corporation, Anderson, Ind. Wrapper tucking mechanism. 2,653,435, Sept. 29.

Taylor, Keith M., and H. M. Walker, Texas City, Tex., assignors to Monsanto Chemical Company, St. Louis, Mo. Purification of acrylonitrile. 2,653,966, Sept. 29.

Tebbetts, Herbert E., Jr., Whittier, assignor to W. J. Voit Rubber Corporation, Los Angeles, Calif. Ball tethering device. 2,653,817, Sept. 29.

Tebbetts, Herbert E., Jr., Whittier, and A. F. Reznicek, Altadena, assignors to W. J. Voit Rubber Corporation, Los Angeles, Calif.. Fabric reinforced football. 2,653,818, Sept. 29.

Tennessee Valley Authority, assignee: *See*—
Gillham, Willard C., and Hendrix.

Terry, Loren R., Webb City, Mo. Aircraft having reversible jet-propelled rotor blade. 2,653,779, Sept. 29.

Testori, Edoardo, Milan, Italy. Progressive variable speed drive capable of reverse rotation. 2,653,490, Sept. 29.

Texas Company, The, assignee: *See*—
Hess, Howard V., Arnold, and Drabkin.
Moore, Frank J., and Hess.

Textile Machine Works, assignee: *See*—
Bitzer, Gottlob.

Thal, Otto F. W.: *See*—
Harding, George N., and Thal.

Thibault, Joseph O., assignor to Casco Products Corporation, Bridgeport, Conn. Steam electric flatiron for domestic household use. 2,653,398, Sept. 29.

Thiele, Henry F., Jr.: *See*—
Cooksey, Otha.

Thomas, Julius A., Monroe, assignor to Ford Motor Company, Dearborn, Mich. Combination steel and die casting cleaning process. 2,653,883, Sept. 29.

Thomas, Robert M., Niagara Falls, N. Y., assignor to Mathieson Chemical Corporation. Production of acrylonitrile. 2,653,965, Sept. 29.

Thompson, Elmer B., assignor, by mesne assignments, to Globe Hoist Company, Des Moines, Iowa. Conduit connection for milking machines. 2,653,567, Sept. 29.

Thompson Products, Inc., assignee: *See*—
Bodensieck, Ernst J.

Thompson, Robert A.: *See*—
Foust, Floyd J., Childress, Crim, and Thompson.

Thurlow, James E.: *See*—
Tinsman, Jack R., Novy, and Thurlow.

Thurmon, Francis M., Boston, Mass., assignor to Rohm & Haas Company, Philadelphia, Pa. Deodorant, antiperspirant compositions. 2,653,902, Sept. 29.

Timber Structures, Inc., assignee: *See*—
Woodworth, Charles H.

Tinius Olsen Testing Machine Company, assignee: *See*—
Stovall, John R., Jr., and Weintraub.

Tinsman, Jack R., Park Ridge, R. J. Novy, and J. E. Thurlow, assignors to Automatic Electric Laboratories, Inc., Chicago, Ill. Automatic metal spinning apparatus. 2,653,562, Sept. 29.

Todd, C., trustee, assignee: *See*—
Koch, Frederick.

Torino, Vincent, Brooklyn, N. Y. Combined toothbrush and gum massager. 2,653,598, Sept. 29.

Toth, Julius, Veaver, and F. L. Geiszheiser, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,654,008, Sept. 29.

Transducer Corporation, assignee: *See*—
Browne, Frank A., Jr.

Tremblay, Bernard G., Pittsburgh, and W. H. Stuellein, East McKeesport, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,654,009, Sept. 29.

Treseder, Richard S., Oakland, assignor to Shell Development Company, Emeryville, Calif. Cleaning and inhibiting corrosion of metal tanks of ships. 2,653,882, Sept. 29.

Trimble, Harold M., L. A. McReynolds, and B. Mitacek, Bartlesville, Okla., assignors to Phillips Petroleum Company. Monoisopropyl amine as an octane improver of leaded gasoline. 2,653,862, Sept. 29.

Truesdell, John G., assignor of one-half to R. H. La Grange, Colorado Springs, Colo. Tool for applying wire hose clamps and making other wire connections. 2,653,498, Sept. 29.

Tufts, William F., Atlanta, assignor to L. M. Leathers Sons, Athens, Ga. Slip resistant pants guard for coat hangers. 2,653,740, Sept. 29.

Turner, Frank B., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electric coil winding machine. 2,653,771, Sept. 29.

Tveden, Niels B., assignor to Dacola Maskinfabrik A/S, Copenhagen, Denmark. Plunger pump. 2,653,756, Sept. 29.

Twiss, Donald T., Los Angeles, Calif. Combination knife. 2,653,382, Sept. 29.

Uhler, Wilmer P., Tottenville, N. Y., assignor to The S. S. White Dental Manufacturing Company. Dental engine handpiece. 2,653,383, Sept. 29.

Ulrey, Ray C.: *See*—
Guernsey, Robert W., and Ulrey.

Umrath, Ernst, Bloomingdale, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Slide wire device for recorders. 2,654,013, Sept. 29.

Union Francaise Commerciale et Industrielle, assignee: *See*—
Lachampt, Felix L.

United Aircraft Corporation, assignee: *See*—
Anderson, John E.
Best, Stanley G.
Cole, Gilmoure N., and Hasbrouck.
Horton, Roger F.
Martin, Erle, and Rhines.
Wallace, Rudolf N.

United Aircraft Products, Inc., assignee: *See*—
Stiefelmayer, Eugen.

United-Carr Fastener Corporation, assignee: *See*—
Becker, Philip D.
Churchill, Wilmer H.

United Engineering & Foundry Company, assignee: *See*—
Biggert, Florence C., Jr.

United States Air Force, United States of America as represented by the Secretary of the, assignee: *See*—
Mayer, Harry F.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Creutz, Edward C.

United States Rubber Company, assignee: *See*—
Eckert, Charles F.

U. S. Rubber Reclaiming Co., Inc., assignee: *See*—
Elgin, Joseph C., and Sverdrup.

United States Steel Corporation, assignee: *See*—
Lorig, Edwin T.
Von Hofen, Earl W., and Whitney.

U. S. Universal Joints Company, assignee: *See*—
Saurer, Curt, and Guy.

Vandamme, Pierre L.: *See*—
Léauté, Jean, and Vandamme.

Van Dijck, Willem J. D., The Hague, Netherlands, and B. P. Geyer, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Synthetic detergent cakes. 2,653,913, Sept. 29.

Vaughan, Clayton T., Circleville, Ohio, assignor to General Electric Company. Support wire forming apparatus. 2,653,631, Sept. 29.

Veley, Hugh N., St. Marys, Pa., assignor, by mesne assignments, to Speer Carbon Company. Molded-in shunt electrical contact member. 2,654,038, Sept. 29.

Vetter, Robert E., Western Springs, assignor to Mid-States Gummed Paper Company, Chicago, Ill. Heat-activatable sustained-tack adhesive tape. 2,653,881, Sept. 29.

Vicci, Orlando, Tufillo, Italy. Conical grinding mill. 2,653,770, Sept. 29.

Vickers Incorporated, assignee: *See*—
Finlayson, William G.
Gardiner, Duncan B., Klessig, and Parsons.
Klessig, Ernst F.

Victory Hat Block Company, assignee: *See*—
Masini, Joseph.

Vines, Oscar L., New York, N. Y. Carrier for bottles and the like. 2,653,750, Sept. 29.

Vogt, Clarence W., Norwalk, Conn. Method of and apparatus for producing packaged units of commodities. 2,653,430, Sept. 29.

Vogt, Clarence W., Norwalk, Conn. Chain of bags. 2,653,751, Sept. 29.

Vogt, Clarence W., Norwalk, Conn. Bag assembly. 2,653,752, Sept. 29.

Vogt, Clarence W., Norwalk, Conn. Supplying articles for use in packaging. 2,653,813, Sept. 29.

Vogt, Henry, Machine Company, assignee: *See*—
Williams, Jesse D., Jr.

Voices, Inc., assignee: *See*—
Wolfe, Howard.

Volt, W. J., Rubber Corporation, assignee: *See*—
Tebbetts, Herbert E., Jr.
Tebbetts, Herbert E., Jr., and Reznicek.

Vokac, Charles W., Cicero, Ill., assignor to Whiting Corporation. Apparatus for automatically regulating single phase electric furnace electrodes and the like. 2,654,046, Sept. 29.

Volckening, Lloyd I., executor: *See*—
Salfisberg, Leroy L., and David.

Vollten, Theodore F., Bethesda, Md. Combination storage and dispensing rack. 2,653,850, Sept. 29.

Von Hofen, Earl W., Pittsburgh, Pa., and F. R. Whitney, Lorain, Ohio, assignors to United States Steel Corporation. Foundry drying oven. 2,653,892, Sept. 29.

Voorheis, Wylie J.: *See*—
Meinzinger, Jacob, and Voorheis.

Voytech, Charles F., assignor to Crane Packing Company, Chicago, Ill. High-pressure rotary seal with O ring. 2,653,837, Sept. 29.

Wagner, Adolph A., Milwaukee, A. J. Werner, Elm Grove, and W. R. Ross, Milwaukee, Wis. Taping machine. 2,653,727, Sept. 29.

Walco, Inc., assignee. *See*—
Wallace, David A.

Walker, Harry M.: *See*—
Taylor, Keith M., and Walker.

Wallace, David A., Grosse Pointe Farms, assignor to Walco, Inc., Detroit, Mich. Hoisting apparatus. 2,653,677, Sept. 29.

Wallace, James M., East McKeesport, and P. Silvius, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Switch. 2,653,488, Sept. 29.

Wallace, James M., and A. W. Edwards, East McKeesport, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Automatic switch. 2,654,053, Sept. 29.

Wallace, Rudolf N., Glastonbury, assignor to United Aircraft Corporation, East Hartford, Conn. Engine cooling and exhaust arrangement. 2,653,585, Sept. 29.

Wallace, Ruth, assignee: *See*—
Hudlow, Clair W.

Wallen, Frank, Chicago, Ill., assignor to Superior Sleeprite Corporation. Bed with chest of drawers. 2,653,331, Sept. 29.

Walter, Jules G.: *See*—
Cohn, Samuel, and Walter.

Ware, Gordon K., assignor to Chicago Roller Skate Company, Chicago, Ill. Roller skate with removable truck assembly. 2,653,821, Sept. 29.

Warner, Thomas R., Gonzales, Calif. Vine dividing means. 2,653,436, Sept. 29.

Wasselle, Joseph A., Queens Village, N. Y. Spring lock lamp holder. 2,653,784, Sept. 29.

Weatherhead Company, The, assignee: *See*—
Allin, Frederick R., and Wyss.
St. Clair, Theodore A.

Weaver, Raymond A., Los Angeles, Calif. Circumferentially adjustable tire removing device. 2,653,653, Sept. 29.

Weber, Nelson H., Bronson, Mich., assignor to Kingston Products Corporation, Kokomo, Ind. Combined starter and ignition switch. 2,654,005, Sept. 29.

Webley, Reginald S.: *See*—
McGee, James D., White, Lubosynski, Webley, and Huntley.

Weeks, Walter R., Hamden, Conn., assignor to General Electric Company. Inertia damper for automatic toaster carriages. 2,653,533, Sept. 29.

Weiland, Richard H., assignor to Boeing Airplane Company, Seattle, Wash. Antifriction screw reversible brake mechanism. 2,653,691, Sept. 29.

Weingart, Richard I. N., New York, N. Y. Ticket stacking machine. 2,653,759, Sept. 29.

Weingart, Richard I. N., New York, N. Y. Ticket stacking receptacle. 2,653,760, Sept. 29.

Weinmayr, Viktor, Pitman, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Manufacture of 1-amino-4-hydroxyanthraquinone. 2,653,954, Sept. 29.

Weintraub, Irving: *See*—
Stovall, John R., Jr., and Weintraub.

Wellman, Fred, Indianapolis, Ind. Stop nut. 2,653,641, Sept. 29.

Wergeland, Josephine N., Chevy Chase, Md. Preparing peanuts and the product resulting therefrom. 2,653,875, Sept. 29.

Werner, Arnold J.: *See*—
Wagner, Adolph A., Werner, and Ross.

Werner, Leo C.: *See*—
McCurdy, William H., Findlay, and Werner.

Wessic, Sylvester B., Speedway City, Ind. Hand truck step climbing mechanism. 2,653,672, Sept. 29.
West, Charles K.: *See*—
Mullins, William D., Jr., West, Slater, and Perkins.
Westergaard, Richard H., Peoria, Ill., assignor to the United States of America as represented by the Secretary of Agriculture. Continuous extraction of oil from vegetable materials. 2,653,957, Sept. 29.
Western Electric Company, Incorporated, assignee: *See*—
Gliss, George E.
Henning, George E.
Western Railway Equipment Company, assignee: *See*—
Pietzsch, Frank H.
Westinghouse Air Brake Company, assignee: *See*—
Gilson, Robert M.
Rost, Otto W.
Staples, Crawford E.
Westinghouse Electric Corporation, assignee: *See*—
Baade, Henry.
Cellerini, Albert R.
Dere, Willard A.
Dyer, Lloyd W., and Born.
Freeman, George A., Anderson.
Gregory, Edward D., Lilliendahl, and Wroughton.
Kruhmin, Ernest.
McCurdy, William H., Findlay, and Werner.
McDonald, John E.
Toth, Julius, and Gelsheiser.
Tremblay, Bernard G., and Stuellein.
Wallace, James M., and Edwards.
Wallace, James M., and Silvius.
Weston Electrical Instrument Corporation, assignee: *See*—
Lamb, Francis X.
Morelock, Oliver J.
Umrath, Ernst.
Weston, William K., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Coaxial electric cable with corrugated seam. 2,653,989, Sept. 29.
Wheatley, William B.: *See*—
Newman, Melvin S., and Wheatley.
Whisler, Ralph H., Jr., and D. A. Palmer, assignors to Patent Development Company, Monroe, Mich. Shock absorber. 2,653,682, Sept. 29.
White, Charles D.: *See*—
Matthews, Kenneth A., and White.
White, Eric L. C.: *See*—
McGee, James D., White, Lubszynski, Webley, and Huntley.
White, Ezekiel F.: *See*—
White, Ezekiel F., and La Viano.
White, Ezekiel F., deceased, West Hartford, Conn. (M. B. White and Hartford National Bank and Trust Company, executors), and M. J. La Viano, Westwood, N. J. Gun compass. 2,653,390, Sept. 29.
White, Fred L., assignor to Crane Packing Company, Chicago, Ill. Apparatus for lapping connecting rod ends, caps and similar articles. 2,653,423, Sept. 29.
White, Madge B., executrix: *See*—
White, Ezekiel F., and La Viano.
White, S. S., Dental Manufacturing Company, The, assignee: *See*—
Uhler, Wilmer P.
Whiteley, Fred H., Kansas City, Kans. Intermittent feed mechanism utilizing control markings on film. 2,653,508, Sept. 29.
Whiting Corporation, assignee: *See*—
Ortgies, Raymond C.
Vokac, Charles W.
Whitney, Fred R.: *See*—
Von Hofen, Earl W., and Whitney.
Whittington, James A., assignee: *See*—
Buchel, Jules.
Wieczorek, Joseph, assignor of one-sixth to D. L. Johnson, one-sixth to E. J. Johnson and one-sixth to T. E. Johnson, Rockford, Ill. Drapery hook protective pocket. 2,653,658, Sept. 29.
Wiley, George D., Doylestown, Pa. Rear wheel splash guard for dump trucks. 2,653,846, Sept. 29.
Wilkie, Harry, Dayton, Ohio. Blind landing and approach system. 2,654,084, Sept. 29.
Williams, Jesse D., Jr., Shively, assignor to Henry Vogt Machine Company, Louisville, Ky. Ice-making machine. 2,653,453, Sept. 29.
Wilson, Christopher L., assignee: *See*—
Hammon, Henry G.
Wilson, Raymond W., Ferndale, assignor to Dearborn Motors Corporation, Birmingham, Mich. Implement hitch for tractors. 2,653,823, Sept. 29.
Winton, James L., Cherry Grove, Oreg. Adjustable telescopic sight mount base. 2,653,386, Sept. 29.
Wittwer, Robert: *See*—
Zickendraht, Christian, and Wittwer.
Wockenfuss, William: *See*—
Leatherman, Clifford C., and Wockenfuss.
Wockenfuss, William, Union, N. J., assignor, by mesne assignments, to Burroughs Adding Machine Company. Wire character forming printing machine. 2,653,534, Sept. 29.
Wolstmann, Edwin N.: *See*—
Bitzer, Jack A., and Wolstmann.
Wolfe, Howard, Harrington Park, assignor to Voices, Inc., Bayonne, N. J. Sound producing doll. 2,653,412, Sept. 29.
Wolgamott, Charles G.: *See*—
Overman, Horace W., and Wolgamott.
Woodall Industries Inc., assignee: *See*—
Burns, Earl A.
Woods, John B.: *See*—
Dempsey, Oscar E., and Woods.
Woodward, Ann F., New York, N. Y. Curtain bracket. 2,653,718, Sept. 29.
Woodworth, Charles H., assignor to Timber Structures, Inc., Portland, Oreg. Knee for rigid frames. 2,653,360, Sept. 29.
Worden, Elmer J., Kalamazoo, Mich. Web coating machine. 2,653,566, Sept. 29.
Worden, Floyd O., assignor to W. E. Worden, Alliance, Nebr. Liquid applicator for animals. 2,653,575, Sept. 29.
Worden, Willis E., assignee: *See*—
Worden, Floyd O.
Workman, Ernest R., Chicago, Ill. Clip and applying it. 2,653,362, Sept. 29.
Wright, Donald A., Harrow, England, assignor to General Electric Company. Thermionic cathode for electric discharge devices. 2,654,045, Sept. 29.
Wright, Donald D.: *See*—
Hussey, Harold A., and Wright.
Wright, Esmond P. G., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electric telegraph system. 2,653,996, Sept. 29.
Wright, Esmond P. G., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Echo suppressor insertion. 2,653,999, Sept. 29.
Wright, Henry H., and C. L. Harder, Fredericksburg, Va., assignors to American Viscose Corporation, Wilmington, Del. Sausage stuffing machine. 2,653,432, Sept. 29.
Wroughton, Donald M.: *See*—
Gregory, Edward D., Lilliendahl, and Wroughton.
Wyandotte Chemicals Corporation, assignee: *See*—
Ash, Arthur B., and Jackson.
Wyss, Frederic D.: *See*—
Allin, Frederick R., and Wyss.
Yoder, Howard D., Detroit, Mich., assignor, by mesne assignments, to Buffalo-Eclipse Corporation. Liquid level gauge. 2,653,479, Sept. 29.
Yost, Leonard W., Atwater, Calif. Convertible high-low baby chair. 2,653,650, Sept. 29.
Yost Manufacturing Company, assignee: *See*—
Partiss, Arnold B.
Young, Arthur R., Springfield, Mass., and J. D. Isola, Hanover, N. H. Football training sled. 2,653,816, Sept. 29.
Young, Einar T.: *See*—
Butterworth, Gilbert J., and Young.
Young Radiator Company, assignee: *See*—
Stahn, James A., and Shaw.
Younkin, Charles R., Jackson, Mich. Magnetic screw driver. 2,653,636, Sept. 29.
Zaber, Adolph J., assignor to Gray-Mills Corporation, Evanston, Ill. Parts washer with safety hose. 2,653,617, Sept. 29.
Zecher, Ernest, Middletown, Ohio. Compensating mechanism connecting reciprocating member to a rotating member. 2,653,484, Sept. 29.
Zenk, Marwin G., Lewisville, Minn. Coat hanger. 2,653,739, Sept. 29.
Zickendraht, Christian, Binningen, and R. Wittwer, assignors to Ciba Limited, Basel, Switzerland, Metalliferous monoazo dyestuffs. 2,653,926, Sept. 29.
Zimic, Michael, New York, and A. Miskovsky, Deer Park, N. Y.; said Miskovsky assignor to said Zimic. Knitting machine. 2,653,460, Sept. 29.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 29TH DAY OF SEPTEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive block or segment. A. S. Titcomb. Re. 23,717, Sept. 29.
Burnishing machine and method. C. C. Kinker and J. J. Murtagh. Re. 23,715, Sept. 29.
Electron beam vacuum tube. G. B. Loper. Re. 23,716, Sept. 29.
Tank with a solids impeller means having a normally submerged drivewheel, Liquid treatment. A. C. Durdin, III. Re. 23,714, Sept. 29.
Truck, Casket carrying. W. E. Barrott, Jr., and W. E. Barrott, Sr. Re. 23,718, Sept. 29.

LIST OF PLANT INVENTIONS

Rose plant. A. P. Howard. 1,218, Sept. 29.

LIST OF DESIGN INVENTIONS

Air conditioner casing. P. S. Egan. 170,496, Sept. 29.
Andiron front. G. Brush. 170,493, Sept. 29.
Barbecue or similar article. J. Nisenson. 170,508, Sept. 29.
Brassière, Halter. M. F. Peck. 170,509, Sept. 29.
Coffee maker. S. J. Popell. 170,510, Sept. 29.
Cold and hot pack, Combination. H. Gloeckler. 170,499, Sept. 29.
Comedy figure. R. W. Kayser. 170,502, Sept. 29.
Cribbage board. B. V. Hare. 170,501, Sept. 29.
Dispenser, Package. E. S. Black. 170,492, Sept. 29.
Electronic comparator or the like. R. E. Roeger. 170,511, Sept. 29.
Embroidered trimming or the like, Narrow. F. J. Diamant. 170,495, Sept. 29.
Galvanometer. F. T. Walsh and R. T. Heath. 170,514, Sept. 29.
Handbag. S. J. Aberman. 170,490–1, Sept. 29.
Memo pad and pencil holder, Combined. E. B. Lee. 170,504, Sept. 29.
Plaque, Wall. F. W. White. 170,515, Sept. 29.
Press, Hydraulic. R. K. Sedgwick. 170,512, Sept. 29.
Shadow box. E. E. Mecus. 170,507, Sept. 29.
Shoe or the like. H. Simon. 170,513, Sept. 29.
Shuttlecock. I. Lawner and J. Lipman. 170,503, Sept. 29.
Stand, Collapsible valet. E. W. Ehrman. 170,497, Sept. 29.
Toy figure. E. B. Darroch. 170,494, Sept. 29.
Toy savings bank or similar article. W. C. Littlejohn. 170,505, Sept. 29.
Vibrator. H. R. Greene. 170,500, Sept. 29.
Window shade combined guard and handle. T. L. Feinberg. 170,498, Sept. 29.
Wrench, Torque. F. W. Livermont. 170,506, Sept. 29.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 29TH DAY OF SEPTEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accessory system and filter therefor. J. R. Olshei. 2,653,444, Sept. 29.
Accumulator feathering system for variable pitch propeller control. R. E. Moore, E. W. Lape, and O. F. Flaugh. 2,653,669, Sept. 29.
Acrylonitrile, Production of. R. M. Thomas. 2,653,965, Sept. 29.
Adapting machine tools for profiling purposes, Means for. E. S. Saxton. 2,653,518, Sept. 29.
Addition of alkali-metal silicofluorides to latex. C. F. Eckert. 2,653,918, Sept. 29.
Adenylic acid salts-gelatin composition. E. K. Harvill. 2,653,901, Sept. 29.
Adhesive tape, Heat-activatable sustained-tack. R. E. Vetter. 2,653,881, Sept. 29.
Adhesive tape, Heat-activated temporarily pressure-sensitive. J. O. Hendricks and A. F. Schmelzle. 2,653,880, Sept. 29.
Aircraft fuel storage system. F. J. Pepersack. 2,653,780, Sept. 29.
Aircraft having reversible jet-propelled rotor blade. L. R. Terry. 2,653,779, Sept. 29.
Aircraft, Rotary-wing. J. A. J. Bennett and A. G. Forsyth. 2,653,778. Sept. 29.
Air filter. R. J. Breckheimer. 2,653,676, Sept. 29.
Air reatomizer for use in internal-combustion engines. L. Mazzocco. 2,653,621, Sept. 29.
Alkali metal fluotitanates and fluozirconates, Production of. H. C. Kaweckl. 2,653,855, Sept. 29.
Alkali metal salts of adenylic acid. E. K. Harvill. 2,653,897, Sept. 29.
Alkylation of aromatic hydrocarbons with isoparaffins. F. E. Condon. 2,653,980, Sept. 29.
Allyl furfurylidenecyanoacetate herbicide. D. T. Mowry and A. H. Schlesinger. 2,653,866, Sept. 29.
Amide-glycamine condensation products. A. M. Schwartz. 2,653,932, Sept. 29.
Aminoheterocycles. J. G. Erickson. 2,653,933, Sept. 29.
Ammeline, Preparation of. A. F. MacLean. 2,653,936, Sept. 29.
Ammeline salts. D. W. Kaiser. 2,653,937, Sept. 29.
Amplifier device, Traveling wave. R. S. Bailey. 2,654,004, Sept. 29.
Amplifying apparatus, Electronic. D. W. Rivenburg. 2,654,057, Sept. 29.
Amusement device for selective exhibition of figurines. M. Spiegel. 2,653,413, Sept. 29.
Anchor, Fence post. W. W. Gordon. 2,653,688, Sept. 29.
Animal cage feeding device. J. E. Forester. 2,653,569, Sept. 29.
Animal feeder. R. A. Grindstaff. 2,653,570, Sept. 29.
Annealed copper ruby glass articles, Making. R. F. Brenner and P. D. Dilliard. 2,653,419, Sept. 29.
Antenna mount. W. D. Mullins, Jr., C. K. West, J. M. Slater, and G. S. Perkins. 2,654,031, Sept. 29.
Antenna system, Television. H. Cuvilliez. 2,654,030, Sept. 29.
Anthranilic acid, Manufacture of. C. W. Balch. 2,653,971, Sept. 29.
Anticorrosion needle mounting. G. Bitzer. 2,653,906, Sept. 29.
Antipick cylinder type lock. H. R. Segal. 2,653,467, Sept. 29.
Apparatus and method for controlling combustion furnaces for solid organic fuels. W. J. Hatton and H. M. Carlson. 2,653,554, Sept. 29.
Apparatus for advancing and working elastomer compounds. G. E. Henning. 2,653,351, Sept. 29.
Apparatus for automatically regulating single phase electric furnace electrodes and the like. C. W. Vokac. 2,654,046, Sept. 29.
Apparatus for bonding linings to brake shoes. H. W. Overman and C. G. Wolgamott. 2,653,644, Sept. 29.
Apparatus for burning fuel. T. Heilmann. 2,653,810, Sept. 29.
Apparatus for cooling and humidifying air. R. R. Baner. 2,653,803, Sept. 29.
Apparatus for determining properties of resins. A. L. Simison. 2,653,473. Sept. 29.
Apparatus for determining well pipe perforations. J. J. Santiago. 2,653,474, Sept. 29.
Apparatus for dispensing cloth towels. H. E. Dosberg. 2,653,693, Sept. 29.
Apparatus for drawing vitreous tubes and rods. B. Shaw. 2,653,418, Sept. 29.
Apparatus for drilling wells. D. A. McGee, O. Danielson, and T. Seale. 2,653,796, Sept. 29.
Apparatus for folding fabrics. S. Cohn and J. G. Walter. 2,653,812, Sept. 29.
Apparatus for forming glass fiber mats. G. Slayter. 2,653,416, Sept. 29.
Apparatus for forming pellets of plastic material. R. P. Piperoux. 2,653,350, Sept. 29.
Apparatus for forming wire coils. S. A. Platt. 2,653,630, Sept. 29.
Apparatus for holding and positioning a combined mask and screen. W. C. Huebner. 2,653,510, Sept. 29.
Apparatus for holding books. J. H. Esak. 2,653,378, Sept. 29.
Apparatus for lapping connecting rod ends, caps and similar articles. F. L. White. 2,653,423, Sept. 29.
Apparatus for pyrolyzing reactants. A. L. Glaeser. 2,653,859, Sept. 29.
Apparatus for rapidly moving bottles and similar articles around sharp bends. N. A. Siegal. 2,653,713, Sept. 29.
Apparatus for removing tendons from fowl. S. J. Ograbisz. 2,653,346, Sept. 29.
Apparatus for removing the cut hair from hair clippers. C. J. Atha. 2,653,380, Sept. 29.
Apparatus for separating pieces of fabric joined by soluble threads. J. H. McCusker. 2,653,466, Sept. 29.
Apparatus for uncoiling sheet metal. H. D. Miller and J. C. Holdgate. 2,653,643, Sept. 29.
Apparatus for use in making geophysical explorations. A. A. Brant. 2,653,990, Sept. 29.
Apparatus for wet-treating fibrous matters. S. E. E. Ahlfors. 2,653,521, Sept. 29.
Applying cutting liquids. R. J. S. Pigott. 2,653,517, Sept. 29.
Applying oligodynamic silver and articles produced thereby. I. B. Romans. 2,653,893, Sept. 29.
Aqueous polyethylene dispersions produced by subjecting molten polymer in water to a high rate of shear. E. Hunter. 2,653,919, Sept. 29.
Arc welding using a plurality of electrodes, Method and apparatus for. G. G. Landis and N. J. Hoenie. 2,654,015, Sept. 29.
Arch support and making same. M. M. and J. J. Gottlieb. 2,653,396, Sept. 29.
Article handling mechanism. O. Sandberg. 2,653,433, Sept. 29.
Artificial eye and implant. E. L. and J. H. Allen. 2,653,327, Sept. 29.
Auger, Nonwinding header. S. C. Heth. 2,653,701, Sept. 29.
Automatic choke air heater. J. Meinzinger and W. J. Voorheis. 2,653,588, Sept. 29.
Automatic frequency control system. L. Staschover and H. A. French. 2,654,032, Sept. 29.
Automatic machine tool. G. A. Cormier. 2,653,503, Sept. 29.
Automatic starting apparatus for internal-combustion engines. W. G. Rowell. 2,654,035, Sept. 29.
Automatic switch. J. M. Wallace and A. W. Edwards. 2,654,053, Sept. 29.
Axial flow fan regulator. J. E. McDonald. 2,653,754, Sept. 29.
Axle mounting of trailers and other vehicles. S. E. Alley. 2,653,828, Sept. 29.
Bag assembly. C. W. Vogt. 2,653,752, Sept. 29.
Bailer and bridge plug, Dump. R. C. Baker. 2,653,666, Sept. 29.
Baling machine, Bag. P. C. Robinson. 2,653,431, Sept. 29.
Ball tethering device. H. E. Tebbetts, Jr. 2,653,817, Sept. 29.
Barge, Deep water submersible. R. A. J. Dawson. 2,653,452. Sept. 29.
Bark removing machine. D. Denison. 2,653,635, Sept. 29.
Basket, Easter. G. R. Brown. 2,653,707, Sept. 29.
Basket, Portable foldable shopping. Y. Lu. 2,653,826, Sept. 29.
Baskets, Manufacturing lined. R. H. DeHaven. 2,653,639, Sept. 29.
Bassinet, Seat-attached. C. Nolan. 2,653,330, Sept. 29.
Battery and mounting and connection means therefor, Storage. J. L. Rupp. 2,653,988, Sept. 29.
Battery, Electric storage. M. S. Godeas. 2,653,984, Sept. 29.
Battery plate separator. T. E. Philippe. 2,653,985–6, Sept. 29.
Beam traveling wave amplifier tube. A. G. Clavier. 2,654,047. Sept. 29.
Bedclothes holder. C. Lievsay, Jr. 2,653,363, Sept. 29.

Bed, Sofa. R. Coopersmith. 2,653,329, Sept. 29.
Bed with chest of drawers. F. Wallen. 2,653,331, Sept. 29.
Beryllium fluoride, Preparation of. G. Barr. 2,653,856, Sept. 29.
β,β'-bis(alkylmercapto)diethyl ether, Preparation of. E. L. Doerr. 2,653,978, Sept. 29.
Bib, Baby. L. C. McMahon. 2,653,324, Sept. 29.
Binding and stemming machine. G. Angiolino and J. Galuppo. 2,653,439, Sept. 29.
Bis-(substituted-phenylalkylamino)-compounds. P. N. Craig and F. P. Nabenhauer. 2,653,977, Sept. 29.
Blind landing and approach system. H. Wilkie. 2,654,084, Sept. 29.
Blocking hats, Method and means for. J. Masini. 2,653,737, Sept. 29.
Body support and cover clamp for vacuum cleaners. P. Bonin and X. Randria. 2,653,342, Sept. 29.
Bolt, Explosively severable. T. C. Smith. 2,653,504, Sept. 29.
Bonding of metal carbonyl deposits. A. O. Fink. 2,653,879, Sept. 29.
Boom and rudder assembly. W. Long. 2,653,563, Sept. 29.
Booster device for internal-combustion engines. A. Kraus. 2,653,589, Sept. 29.
Bottle carrier. G. C. Currie. 2,653,742, Sept. 29.
Boxing glove, Pneumatic. J. Silsus. 2,653,319, Sept. 29.
Bracket: *See*—
Curtain bracket.
Braiding machine. R. M. Fraser. 2,653,506, Sept. 29.
Brake for automotive vehicles, Parking. W. A. Hasbany. 2,653,689, Sept. 29.
Brake mechanism, Antifriction screw reversible. R. H. Welland. 2,653,091, Sept. 29.
Brake proportioning combination, Tractor-trailer. F. R. Allin and F. D. Wyss. 2,653,680, Sept. 29.
Brick cutter. J. R. Findley. 2,653,504, Sept. 29.
Brush with element of the channel strip type. H. Cave. 2,653,340, Sept. 29.
Bubbling reduction for high temperature resisting bonding. K. F. Hager, H. I. Lindenmayr, and M. Rosenthal. 2,653,889, Sept. 29.
Buckle with fastener element on slider, Gripping slider type. P. D. Becker. 2,653,364, Sept. 29.
Buckle with swingable release member. E. C. Elsner. 2,653,365, Sept. 29.
Buffs, Making. E. Sandman and E. R. Sykes. 2,653,425, Sept. 29.
Building construction. M. O. Brannon. 2,653,356, Sept. 29.
Building structure, Bombproof. W. Rowles. 2,653,468, Sept. 29.
Building wall construction. P. J. Callan. 2,653,469, Sept. 29.
Burner: *See*—
Oil burner.
Burner control, Gas. R. S. Penn. 2,653,768, Sept. 29.
Bus duct for electrical distribution systems. L. W. Dyer and W. F. Born. 2,653,991, Sept. 29.
Cabinet: *See*—
Sunray heat cabinet.
Cabinet having improved means for facilitating opening doors singly or in multiple. L. H. Davidson. 2,653,851. Sept. 29.
Cable with corrugated seam, Coaxial electric. W. K. Weston. 2,653,989. Sept. 29.
Calcium fluoride, Preparation of. J. F. Ross and H. W. Sloyer. 2,653,857, Sept. 29.
Calculating machine, Electromechanical. J. A. Lawrence and K. M. Heron. 2,653,761, Sept. 29.
Cam operated synchro-ring staking tool. S. Melamed. 2,653,493, Sept. 29.
Camera, High-speed grid. I. M. Riles and D. W. Stratton. 2,653,507, Sept. 29.
Can opening and dispensing containers. H. B. Seitzinger. 2,653,731, Sept. 29.
Cap: *See*—
Turban cap.
Card punch and verifier, Statistical. C. C. Leatherman and W. Wockenfuss. 2,653,665, Sept. 29.
Carrier: *See*—
Bottle carrier.
Carrier for bottles and the like. O. L. Vines. 2,653,750, Sept. 29.
Carton and packing cell. R. O. Spalding. 2,653,708, Sept. 29.
Cartons, Bottle carrying. J. Milchin. 2,653,749, Sept. 29.
Carton erecting mechanism. R. J. Hickin. 2,653,524, Sept. 29.
Casting ejector. H. V. Kruse. 2,653,371, Sept. 29.
Catalytic addition of cyanogen halides to olefins. F. M. Cowen and J. K. Dixon. 2,653,963, Sept. 29.
Catalysts for the hardening of artificial resins and their use in the textile industry. G. Sulzer. 2,653,921, Sept. 29.
Catalytic alkylation of isoparaffins with olefins. R. M. Kennedy and C. K. Donnell. 2,653,982, Sept. 29.
Cathode for electric discharge devices, Thermionic. D. A. Wright. 2,654,045. Sept. 29.
Cattle leader. C. J. Spencer. 2,653,574, Sept. 29.
Centrifugal control mechanism. A. Andrews. 2,653,458, Sept. 29.
Chain: *See*—
Cutter chain. Silent chain.
Chain of bags. C. W. Vogt. 2,653,751, Sept. 29.
Chair: *See*—
Convertible high-low baby chair. Electric-hydraulic beauty chair.
Choline pantothenate and manufacturing same. M. Freed. 2,653,968, Sept. 29.
Chopper, Portable scrap. F. Koch. 2,653,660, Sept. 29.
Chuck. E. G. Schade. 2,653,820, Sept. 29.
Chute, Animal restraining. H. P. Johnson. 2,653,573, Sept. 29.
Cigarette holder attachment for beer cans. A. L. Selgas. 2,653,616, Sept. 29.
Cigarettetrap, ash tray, and holder, Combined. D. J. Coffey. 2,653,614, Sept. 29.
Circuit: *See*—
Electron tube circuit. Sequence switch circuit.
Overload reset circuit. Synchronizing circuit.
Circuit-arrangement in a telephone system for the reception of signals. C. Hooijkamp and R. Haus. 2,654,002, Sept. 29.
Circuit breaker. J. Toth and F. L. Geisheiser. 2,654,008, Sept. 29.
Circuit breaker. B. G. Tremblay and W. H. Stuellein. 2,654,009, Sept. 29.
Circuit interrupter. A. R. Cellerini. 2,654,012, Sept. 29.
Circuit tuning device. G. E. Morton. 2,654,034, Sept. 29.
Circuits embodying cathode potential stabilized electron discharge devices. J. D. McGee, E. L. C. White, H. G. Lubszynski, R. S. Webley, and K. G. Huntley. 2,654,048, Sept. 29.
Circuits for direct current motors, Operating and snubbing. R. M. Gilson. 2,654,024, Sept. 29.
Circuits for magnetic recording and reproducing systems, Oscillator-amplifier. D. H. Dashiell. 2,654,003, Sept. 29.
Clamp: *See*—
Pinch clamp. Reinforced V-band clamp.
Clamp. H. B. Middendorf. 2,653,839, Sept. 29.
Clasp construction, Clutch. J. H. Orchoff. 2,653,367, Sept. 29.
Cleaner: *See*—
Expandable condenser tube cleaner.
Cleaning and inhibiting corrosion of metal tanks of ships. R. S. Treseder. 2,653,882, Sept. 29.
Cleaning apparatus, Gas. G. E. Lynch. 2,653,675, Sept. 29.
Cleaning radiator tubes and the like, Method and apparatus for. A. R. Ruth. 2,653,420, Sept. 29.
Clip and applying it. E. R. Workman. 2,653,362, Sept. 29.
Closure. A. E. Smith. 2,653,611, Sept. 29.
Closure for unrefillable containers. R. M. Bernal. 2,653,726, Sept. 29.
Clothesline, Supplementary. J. G. Field. 2,653,719. Sept. 29.
Clothes-washing machine having a squeeze bag extractor. H. Baade. 2,653,465, Sept. 29.
Clutch disk, Self-centering. J. B. Polomski, Jr. 2,653,692, Sept. 29.
Coal mining machine with eccentrically mounted disk cutters. J. S. Robbins. 2,653,806, Sept. 29.
Coat hanger. M. G. Zenk. 2,653,739, Sept. 29.
Coating machine, Web. E. J. Worden. 2,653,566, Sept. 29.
Code detecting apparatus. C. E. Staples. 2,654,081, Sept. 29.
Coin holder. D. G. Krauss. 2,653,703, Sept. 29.
Cold separation of gaseous mixtures. A. Etienne. 2,653,455, Sept. 29.
Color photographic images, Production of. P. D. Dreyfuss. 2,653,874, Sept. 29.
Color wheel for television. J. W. Jones. 2,653,994, Sept. 29.
Comb box mechanism. M. W. Odom. 2,653,354, Sept. 29.
Combination door and jamb gauge. W. C. Cassady. 2,653,388, Sept. 29.
Combination storage and dispensing rack. T. F. Vollten. 2,653,850. Sept. 29.
Commutator tube device. L. Batchelder. 2,654,040, Sept. 29.
Compartment for automobiles, Clothes. S. Senk. 2,653,741, Sept. 29.
Compass, Gun. E. F. White and M. J. La Viano. 2,653,390, Sept. 29.
Compensating mechanism connecting reciprocating member to a rotating member. E. Zecher. 2,653,484. Sept. 29.
Composite article. H. A. Hussey and D. D. Wright. 2,653,884, Sept. 29.
Compressor and fuel control system for high-pressure gas turbine power plants. N. C. Price. 2,653,446, Sept. 29.
Compressor regulator. P. H. Davey. 2,653,753, Sept. 29.
Condensing vapor and gas turbine power plant, Combined. L. W. Heller. 2,653,447, Sept. 29.
Conduit connection for milking machines. E. B. Thompson. 2,653,567, Sept. 29.
Conical grinding mill. O. Vicci. 2,653,770, Sept. 29.
Connecting rod joint. G. I. Danly and V. Georgeff. 2,653,838, Sept. 29.
Connection for brassières and undergarments, Extension. J. Ganim. 2,653,323, Sept. 29.

Connection for diaphragm valves. J. E. Svabek, Jr. 2,653,788, Sept. 29.
Connector assembly. J. L. Arthur. 2,654,078, Sept. 29.
Container: *See*—
Can opening and dispensing container.
Container closing mechanism. F. Huntar and G. O. Frey. 2,653,745, Sept. 29.
Container closure. A. E. Smith. 2,653,609, Sept. 29.
Container for inflammable liquids. A. E. Kanode and C. H. Matson. 2,653,541, Sept. 29.
Container for tablets and the like, Dispensing. R. E. Aggson. 2,653,706, Sept. 29.
Container having a sealed passage adapted to be unsealed upon application of stress, Single use. E. H. Land. 2,653,732, Sept. 29.
Container having a slide closure, Sifter-top. W. J. Jamieson. 2,653,736, Sept. 29.
Container with nondetachable threaded cap and neck, and with registrable dispensing apertures, Dispensing. E. G. Brinkman. 2,653,735, Sept. 29.
Continuous extraction of oil from vegetable materials. R. H. Westergaard. 2,653,957, Sept. 29.
Continuous purification of soap. F. L. Lachampt. 2,653,938, Sept. 29.
Control of webs in web-handling machines, Method and apparatus for. O. Cooksey. 2,653,536, Sept. 29.
Controller having means for manually adjusting the set point with a varying ratio of motion multiplication. E. C. Burdick. 2,654,062, Sept. 29.
Controlling edging machines, Means for. C. A. Ellis. 2,653,427, Sept. 29.
Convertible high-low baby chair. L. W. Yost. 2,653,650, Sept. 29.
Conveyer and transfer mechanism for use with weighing machines. C. Best. 2,653,698, Sept. 29.
Conveyer, Linked endless flexible. W. C. Miller. 2,653,699, Sept. 29.
Cooler: *See*—
Submerged valve oil cooler.
Copyholder with two-way cover. E. Nineberg. 2,653,509, Sept. 29.
Cornice and support for curtains and the like. J. F. Kuebler. 2,653,656, Sept. 29.
Cortisone esters and process. E. F. Rogers and J. P. Conbere. 2,653,955, Sept. 29.
Counterbalance for tail gates. P. W. Benjamin. 2,653,845, Sept. 29.
Coupling: *See*—
Hydrodynamic coupling.
Cover: *See*—
Handbag cover. Venetian blind cover.
Cover for containers, Pressure responsive. J. Richter. 2,653,729, Sept. 29.
Crimping apparatus. G. A. Swartz. 2,653,646, Sept. 29.
Curarizing composition. J. C. Castillo and A. P. Phillips. 2,653,898, Sept. 29.
Curtain bracket. A. F. Woodward. 2,653,718, Sept. 29.
Cut point determination in pipe-line batching. W. A. Bruce. 2,654,067, Sept. 29.
Cutter: *See*—
Brick cutter.
Cutter chain. L. E. Simmons. 2,653,808, Sept. 29.
Cutting attachment for tractors, Grass. M. Crump. 2,653,437, Sept. 29.
Cutting machine, Swatch. R. C. Maxant. 2,653,663, Sept. 29.
Cylinder adjustment and locking means, Printing. H. E. Peyrebrune. 2,653,538, Sept. 29.
Cylinder construction, Fish-scaling. N. Kaplan. 2,653,345, Sept. 29.
Damper for automatic toaster carriages, Inertia. W. R. Weeks. 2,653,533, Sept. 29.
Dental paralleling apparatus. S. Kay. 2,653,385, Sept. 29.
Deodorant, antiperspirant compositions. F. M. Thurmon. 2,653,902, Sept. 29.
Destroying plants. A. H. Schlesinger. 2,653,864, Sept. 29.
Detector system. M. K. Goldstein. 2,654,085, Sept. 29.
Device for automatically controlling air actuating mechanisms of machines. W. M. Kelly. 2,653,627, Sept. 29.
Diarylethanes, Preparation of. E. L. Kropa and A. S. Nyquist. 2,653,979, Sept. 29.
Die for forging crankshafts, Collapsible. C. A. Brauchler. 2,653,373, Sept. 29.
Die mounting for crimp-sealing machines. G. A. Swartz. 2,653,647, Sept. 29.
Diffuser for ventilating fans. B. Segalman. 2,653,757, Sept. 29.
Direct coupled modulation system. R. L. Meisenheimer. 2,654,072, Sept. 29.
Disk, Grinding. P. K. Fuller. 2,653,428, Sept. 29.
Dispenser: *See*—
Single-edge blade dispenser.
Dispenser circulatory device. C. C. Bauerlein. 2,653,802, Sept. 29.
Dispenser for washing machines, Soap and detergent. W. J. Frank. 2,653,618, Sept. 27.
Dispensing closure. A. E. Smith. 2,653,610, Sept. 29.
Dispensing unit, Feather. P. W. Behr. 2,653,744, Sept. 29.
Dispersing a substance in a liquid, Process and apparatus for. F. J. Fontein and A. L. de Gelder. 2,653,801, Sept. 29.
Display device. D. E. Lindsay. 2,653,783, Sept. 29.
Dividend aligning mechanism. G. C. Ellerbeck. 2,653,762, Sept. 29.
Dividend aligning mechanism. G. W. Hopkins. 2,653,763, Sept. 29.
Dividend aligning mechanism. A. B. Machado and F. J. Pruellage. 2,653,765, Sept. 29.
Division aligner. G. W. Hopkins. 2,653,764, Sept. 29.
Doffing ring frames, Means for. H. Partington. 2,653,440, Sept. 29.
Doll, Sound producing. H. Wolfe. 2,653,412, Sept. 29.
Doll with sound effects, Drinking and wetting. G. W. Beltz. 2,653,411, Sept. 29.
Door: *See*—
Sliding door.
Drapery hook protective pocket. J. Wieczorek. 2,653,658, Sept. 29.
Drawer mount with cushioned adapter glides. C. A. Bissman. 2,653,852, Sept. 29.
Drawoff tensioning means for knitting machines. G. Bitzer. 2,653,461, Sept. 29.
Drier, kiln, and the like, Rotary. G. Bojner. 2,653,393, Sept. 29.
Drive capable of reverse rotation, Progressive variable speed. E. Testori. 2,653,490, Sept. 29.
Drive seal retainer. W. H. Manning and K. L. Hulsing. 2,653,728, Sept. 29.
Drum lift for industrial trucks. W. J. Dodge. 2,653,725, Sept. 29.
Drying ammonium nitrate and like materials. E. Edmonds, Jr. 2,653,391, Sept. 29.
Drying oil compositions. E. G. Marhofer and J. C. Hillyer. 2,653,956, Sept. 29.
Ductile vanadium, Manufacture of. E. D. Gregory, W. C. Lilliendahl, and D. M. Wroughton. 2,653,869, Sept. 29.
Eccentric pump. L. F. Knight. 2,653,549, Sept. 29.
Echo suppressor insertion. E. P. G. Wright. 2,653,999, Sept. 29.
Elastic rib knitted fabric. C. A. Crimmins. 2,653,463, Sept. 29.
Electric discharge tube. G. H. Hough and T. M. Jackson. 2,654,044, Sept. 29.
Electric-hydraulic beauty chair. R. P. Marshall. 2,653,648, Sept. 29.
Electric motor laminated stator construction. J. T. Abdo. 2,654,039, Sept. 29.
Electric switch. R. H. Kingdon. 2,654,011, Sept. 29.
Electrical resistivity logging of mud invaded formations. R. A. Broding. 2,654,064, Sept. 29.
Electrically driven mechanism. R. H. Davies and E. R. Sirotak. 2,653,841, Sept. 29.
Electrodes, Production of. J. Sejersted and O. C. Böckman. 2,653,878, Sept. 29.
Electromagnetically actuated control for servo mechanisms. L. J. Moulton. 2,653,579, Sept. 29.
Electron tube circuit. R. B. Buchner. 2,654,029, Sept. 29.
Electron tube heat-dissipating radiator and fabricating same. N. Anton. 2,653,800, Sept. 29.
Elevator for trucks, Loading and unloading. H. Lehrman. 2,653,678, Sept. 29.
Embroidering machine. E. Gerber. 2,653,556, Sept. 29.
Endgate control for dump trucks. N. Heisel, Jr. 2,653,847, Sept. 29.
Engine: *See*—
Internal-combustion engine.
Engine cooling and exhaust arrangement. R. N. Wallace. 2,653,585, Sept. 29.
Engine part or casing. F. K. H. Nallinger. 2,653,586, Sept. 29.
Engine starter control. P. L. Schneider. 2,654,007, Sept. 29.
Engine starter control. P. L. Schneider and H. J. Cromwell. 2,654,036, Sept. 29.
Engraved rubber printing plates, Preparation of. C. J. Marsh. 2,653,871, Sept. 29.
Erasure-debris collecting device on typewriters and like machines. W. Ettmüller. 2,653,095, Sept. 29.
Erosion resisting fan wheel. E. Kruhmin. 2,653,755, Sept. 29.
Erythromycin, its salts, and preparation. R. L. Bunch and J. M. McGuire. 2,653,899, Sept. 29.
Etching aluminum using hexahydroxyheptanoic acid as a modifier. W. R. Meyer. 2,653,861, Sept. 29.
Etching aluminum using saccharic acid as a modifier. W. R. Meyer. 2,653,860, Sept. 29.
Ethylene oxide, Manufacture of. R. B. Egbert. 2,653,952, Sept. 29.
Ethylene sulfonyl fluoride and its preparation. R. M. Hedrick. 2,653,973, Sept. 29.
Ethylenimino-S-triazines. D. W. Kaiser and F. C. Schaefer. 2,653,934, Sept. 29.
Excavator. T. F. Reeves. 2,653,795, Sept. 29.
Expandable condenser tube cleaner. T. J. Bay. 2,653,334, Sept. 29.

Expanded material and the product resulting therefrom, Making an. H. G. Hammon. 2,653,917, Sept. 29.
Extreme pressure lubricants. R. S. Aira and V. W. David. 2,653,910, Sept. 29.
Extruder. G. E. Gliss. 2,653,352, Sept. 29.
Extrusion apparatus utilizable for reclaiming rubber. J. C. Elgin and E. F. Sverdrup. 2,653,348, Sept. 29.
Eye forming mechanism. H. A. Corbett. 2,653,632, Sept. 29.
Eye-set construction for dolls. E. W. Baggott. 2,653,414, Sept. 29.
Fabric: *See*—
Elastic rib knitted fabric.
Fabrication of artificial eyes. A. L. Anderson and J. D. Holmen. 2,653,326, Sept. 29.
Faceplate for vise jaws, Removable. A. B. Partiss. 2,653,499, Sept. 29.
Fan blade mounting. L. D. Morrill. 2,653,459, Sept. 29.
Fastener: *See*—
Hook fastener. Swivel fastener. Toggle fastener.
Fastening unit for toilet fixtures. E. G. Nelson. 2,653,835, Sept. 29.
Feeder: *See*—
Animal feeder. Hog feeder.
Feeding machine for cotton and the like. W. A. Herrmann. 2,653,353, Sept. 29.
Film-retaining device for reels. F. L. Eastman. 2,653,775, Sept. 29.
Filter: *See*—
Air filter.
Filter for aquariums, Submerged. C. Rodda. 2,653,908, Sept. 29.
Fire extinguishing apparatus, Trigger. H. Génin and H. Debray. 2,653,667, Sept. 29.
Fish gripper. M. L. Detwiler. 2,653,844, Sept. 29.
Fish net. W. L. Osland. 2,653,403, Sept. 29.
Fish netting, Nylon. R. Johnson and R. W. Kolb. 2,653,372, Sept. 29.
Fisherman's plier type shot splitting tool. H. H. Precious. 2,653,332, Sept. 29.
Fishing device. A. C. Freire. 2,653,407, Sept. 29.
Fishing lure. A. R. Bradley. 2,653,408, Sept. 29.
Fishing lure, Spinner. W. E. Hancock. 2,653,409, Sept. 29.
Fishing net. J. R. Phaneuf. 2,653,404, Sept. 29.
Fishing rod stabiliser. G. W. and R. W. Grabiak. 2,653,406, Sept. 29.
Fixture for cutting circular pieces. E. G. Anderson. 2,653,633, Sept. 29.
Fixture for generating involutes. J. Silvagi. 2,653,426, Sept. 29.
Flatiron for domestic household use, Steam electric. J. O. Thibault. 2,653,398, Sept. 29.
Flooring. H. G. Macdonald. 2,653,358, Sept. 29.
Fluid control system and valve. W. R. Moore, Jr. 2,653,580, Sept. 29.
Fluid discharge device, Intermittent. G. M. Peltz and H. Bovin. 2,653,625, Sept. 29.
Fluid pump. O. E. Rosaen. 2,653,551, Sept. 29.
Foam creating apparatus. R. E. Lee. 2,653,848, Sept. 29.
Food products, Stabilized creamed. H. L. Hanson and H. Lineweaver. 2,653,876, Sept. 29.
Football, Fabric reinforced. H. E. Tebbetts, Jr. and A. F. Reznicek. 2,653,818, Sept. 29.
Forging metals. E. C. Creutz. 2,653,494, Sept. 29.
Form roller and cylinder tripping mechanism. H. E. Peyrebrune. 2,653,537, Sept. 29.
Forming an elongated opening in a pipe or the like, Method of and means for. J. W. Dolby. 2,653,664, Sept. 29.
Forming container blanks. M. Hyman, Jr. 2,653,888, Sept. 29.
Forming metal powder into a fluid guiding body. R. P. Seelig. 2,653,377, Sept. 29.
Formoguanamines, Preparation of. W. O. Fugate and L. C. Lane, Jr. 2,653,938, Sept. 29.
4-quinolyl secondary amine, Preparing. W. S. Johnson. 2,653,940, Sept. 29.
Freezing mushrooms. H. R. Dadley. 2,653,930, Sept. 29.
Frequency oscillation modulator. A. S. Harris. 2,654,071, Sept. 29.
Fuel injection system. C. R. Alden. 2,653,584, Sept. 29.
Fuel metering control for injection carburetors. O. R. Cedarholm. 2,653,804, Sept. 29.
Funnel for beverage vending machines, Mixing. L. K. Rudd and K. C. Melikian. 2,653,733, Sept. 29.
Furnace. P. B. Greger. 2,653,582, Sept. 29.
Furnace system for bituminous coals, Downflow stoker-fed. W. J. Hatton and R. A. Sherman. 2,653,555, Sept. 29.
Furniture construction. A. W. Nemmer. 2,653,651, Sept. 29.
Fuse and demand meter, Combined. H. W. Mertens. 2,654,068, Sept. 29.
Garment, Foundation. H. M. Herbener. 2,653,321, Sept. 29.
Garment hanger. C. Pollak. 2,653,738, Sept. 29.
Gas starters for resonant pulse jet burners. W. I. E. Kamm, W. F. Krautter, and K. Staiger. 2,653,654, Sept. 29.
Gate for race tracks, Starter. A. J. Lawson. 2,653,568, Sept. 29.
Gauge: *See*—
Combination door and jambe gauge. Liquid level gauge.
Gauge and manufacture, Capacity type strain. J. R. Stovall, Jr. and I. Weintraub. 2,654,060, Sept. 29.
Gauge for liquid containers. R. W. Harper. 2,653,478, Sept. 29.
Gear drive transmission, Variable drive ratio. L. A. Creber. 2,653,491, Sept. 29.
Generator: *See*—
Saw-tooth wave generator.
Generator armature test. F. J. Foust, O. W. Childress, Jr., D. O. Crim, and R. A. Thompson. 2,654,065, Sept. 29.
Glove. E. M. Morrison. 2,653,601, Sept. 29.
Golf putting practice device. G. A. Hartung. 2,653,815, Sept. 29.
Grass edger and trimmer. H. V. Rooke. 2,653,381, Sept. 29.
Greenhouse, Prefabricated. S. Jacobs. 2,653,553, Sept. 29.
Guanidine sulfate from urea and sulfur dioxide. J. S. Mackay. 2,653,976, Sept. 29.
Gun, Repeating, Air. E. E. Foster. 2,653,593, Sept. 29.
Gun, Spring. J. Sowitsky. 2,653,592, Sept. 29.
Gyroscope, Temperature-compensated. J. C. Mathiesen. 2,653,481, Sept. 29.
Hamper, Aerated oscillatory clothes. J. F. Helberg. 2,653,758, Sept. 29.
Handbag cover. V. E. Browning. 2,653,640, Sept. 29.
Hand guard. H. G. Olson. 2,653,320, Sept. 29.
Handle: *See*—
Jointed handle.
Handle for screw drivers and similar tools, Auxiliary slip-on. A. A. Rea. 2,653,637, Sept. 29.
Handling sheets delivered from a dipping tank. S. J. Brunansky and H. Forsythe. 2,653,097, Sept. 29.
Handpiece, Dental. J. C. Shotton. 2,653,284, Sept. 29.
Handpiece, Dental engine. W. P. Uhler. 2,653,383, Sept. 29.
Hanger: *See*—
Coat hanger. Garment hanger.
Heat exchanger. J. A. Stahn and J. C. Shaw. 2,653,799, Sept. 29.
Heated pressure air-driven power plant. J. J. Kupka. 2,653,448, Sept. 29.
Heater: *See*—
Automatic choke air heater. Water heater.
Heater construction, Baseboard. W. W. Hicks. 2,654,017, Sept. 29.
Heating and ventilating device for automotive vehicles. J. Baldinus. 2,653,798, Sept. 29.
Herbicides. M. Kosmin and A. H. Schlesinger. 2,653,865, Sept. 29.
Heterocyclic azo-dyestuff. C. Graenacher, H. Bruengger, and A. E. Siegrist. 2,653,927, Sept. 29.
Heterocyclic azo-dyestuff derivatives. C. Graenacher, H. Bruengger, and A. E. Siegrist. 2,653,928, Sept. 29.
High-frequency induction-heating apparatus. A. C. Body. 2,654,019, Sept. 29.
High-pressure pump. L. J. Geeraert. 2,653,552, Sept. 29.
Hog cradle, Collapsible. G. S. Diekman. 2,653,347, Sept. 29.
Hog feeder. W. J. Pax. 2,653,571, Sept. 29.
Hoisting apparatus. D. A. Wallace. 2,653,677, Sept. 29.
Hoisting tower, Portable. S. T. Buck. 2,653,685, Sept. 29.
Holddown device for screen frames. D. Crampton. 2,653,714, Sept. 29.
Holder: *See*—
Bedclothes holder. Spring lock lamp holder.
Coin holder. Twine holder.
Match book holder.
Hole-cutting device. G. L. Higgins. 2,653,595, Sept. 29.
Hook fastener. E. C. Elsner. 2,653,368, Sept. 29.
Hub mounted control. J. E. Anderson. 2,653,668, Sept. 29.
Hydraulic power device. W. Schubert. 2,653,581, Sept. 29.
Hydraulic pump. L. F. Mott. 2,653,543, Sept. 29.
Hydraulic system air trap. J. D. Benefield. 2,653,564, Sept. 29.
Hydrocarbon conversion. M. O. Kilpatrick. 2,653,903, Sept. 29.
Hydrocarbon oil compositions containing telomeric polyalkyl oxoesters as anti-foaming agents. J. E. Fields and T. M. Patrick. 2,653,911, Sept. 29.
Hydrodynamic coupling. E. R. Langdon. 2,653,547, Sept. 29.
Hydroperoxy-substituted rosin materials and their production. F. L. McKennon and R. V. Lawrence. 2,653,922, Sept. 29.
Ice fishing jack. J. A. Monahan. 2,653,405, Sept. 29.
Ice-making machine. J. D. Williams, Jr. 2,653,453, Sept. 29.
Identification tag. W. A. Sutherland. 2,653,401, Sept. 29.
Identification tag, Tamperproof. W. A. Sutherland. 2,653,400, Sept. 29.
Idler roller assembly for belt conveyers. W. W. Sloane. 2,653,700, Sept. 29.
Igniting device, Cigarette. M. V. V. Dussich. 2,653,613, Sept. 29.

Implement hitch for tractors. R. C. Frevik. 2,653,824, Sept. 29.
Implement hitch for tractors. R. W. Wilson. 2,653,823, Sept. 29.
Incandescent mantle mounting. C. Bramming. 2,653,464, Sept. 29.
Indirect instrument illumination. K. F. Pittman. 2,654,020, Sept. 29.
Inert-arc welding of stainless tubing. W. S. Schaefer. 2,654,014, Sept. 29.
Initiating composition containing lead azide, Producing. L. Rubenstein. 2,653,863, Sept. 29.
Injection apparatus. S. A. Deans. 2,653,607, Sept. 29.
Injection apparatus. G. N. Hein, Jr. 2,653,603, Sept. 29.
Injection device. G. N. Hein, Jr. 2,653,604, Sept. 29.
Injection device. J. H. Smoot. 2,653,602, Sept. 29.
Injection device and ampoule. G. N. Hein, Jr. 2,653,605, Sept. 29.
Inking type of printing machines with quick-drying ink. C. R. Johnson. 2,653,540, Sept. 29.
Insect repellents. N. L. Drake and S. Melamed. 2,653,895, Sept. 29.
Insect repellents. M. S. Newman and W. B. Wheatley. 2,653,894, Sept. 29.
Insecticidal compounds. E. B. Hodge. 2,653,896, Sept. 29.
Instrument, Layout. J. A. Cameron. 2,653,387, Sept. 29.
Instrument, Power indicating. C. R. Gibson. 2,653,472, Sept. 29.
Instrument, Sealed. F. X. Lamb. 2,654,070, Sept. 29.
Instrument, Well surveying. G. J. Butterworth and E. T. Young. 2,653,389, Sept. 29.
Insufflator. S. Miller and A. C. Emelin. 2,653,608, Sept. 29.
Integrally capacitively ballasted discharge lamp. M. G. Clarke and H. L. Privett. 2,654,042, Sept. 29.
Intermittent feed mechanism utilizing control markings on film. F. H. Whiteley. 2,653,508, Sept. 29.
Intermittent fuel injection valve. M. G. Scherberg. 2,653,805, Sept. 29.
Internal-combustion engine. C. W. Malstrom. 2,653,590, Sept. 29.
Internally ported vane type pump. E. J. Bodensieck. 2,653,548, Sept. 29.
Jack: *See*—
Ice fishing jack. Press safety jack.
Jig. W. C. Steinmetz. 2,653,715, Sept. 29.
Joint: *See*—
Connecting rod joint. Universal joint.
Structural joint.
Jointed handle. J. A. Bitzer and E. N. Wolstmann. 2,653,840, Sept. 29.
Kerf cutting mining machine, including mechanism for removing kerf cuttings therefrom. S. C. Moon. 2,653,807, Sept. 29.
Key blank, Bimetallic. H. Abrams. 2,653,492, Sept. 29.
Key retainer, Draft. F. H. Pietzsch. 2,653,505, Sept. 29.
Kiln. V. J. Asbe. 2,653,809, Sept. 29.
Knee for rigid frames. C. H. Woodworth. 2,653,360, Sept. 29.
Knife, Combination. D. T. Twiss. 2,653,382, Sept. 29.
Knitting machine. M. Zimic and A. Miskovsky. 2,653,460, Sept. 29.
Labeling polysaccharides with C^{14} and products resulting therefrom. H. S. Isbell. 2,653,931, Sept. 29.
Lamp: *See*—
Integrally capacitively ballasted discharge lamp. Magnetic trouble lamp.
Lamp assembly, Fluorescent. O. A. Bartholomew. 2,654,021, Sept. 29.
Lamp detecting and ejecting mechanism, Defective. J. Flaws, Jr. and C. R. Meckstroth. 2,653,711, Sept. 29.
Lamp, operating, and making, Discharge. G. A. Freeman and C. G. Anderson, Jr. 2,654,043, Sept. 29.
Lapping machine construction. R. G. Roshong and V. L. Peickii. 2,653,422, Sept. 29.
Latch construction for folding ironing boards. R. McKinnie. 2,653,399, Sept. 29.
Leather stretching apparatus. J. W. Durkee. 2,653,410, Sept. 29.
Lens, Corneal contact. N. O. Stimson. 2,653,515, Sept. 29.
Lens, Light-beam-rectifying. G. A. Johnson. 2,653,516, Sept. 29.
Leveling mechanism for hoisting trucks, Automatic. A. S. Hamilton, Jr. 2,653,679, Sept. 29.
Light-sensitive photographic element. J. Léauté and P. L. Vandamme. 2,653,873, Sept. 29.
Lighting device and making same, Highway. H. C. Pfaff, Jr. 2,653,782, Sept. 29.
Link drive for isolating torsional vibration, Flexible. R. W. Guernsey and R. C. Uirey. 2,653,457, Sept. 29.
Liquid applicator for animals. F. O. Worden. 2,653,575, Sept. 29.
Liquid dielectric compositions. S. D. Ross, M. Markarian, and M. Nazzewski. 2,653,912, Sept. 29.
Liquid level control. R. W. Hippen and C. L. Murphy, Sr. 2,653,623, Sept. 29.
Liquid level gauge. E. E. Hoskins. 2,653,477, Sept. 29.
Liquid level gauge. H. D. Yoder. 2,653,479, Sept. 29.
Loading device. H. G. Cantrell. 2,653,721, Sept. 29.
Loading machine. S. C. Moon. 2,653,696, Sept. 29.
Lock: *See*—
Antipick cylinder type lock. Pitch lock.
Lock housing. A. R. Adams, E. D. Grizzard, and P. C. Cady. 2,653,843, Sept. 29.
Locking device for electric plugs. R. Katz. 2,654,073, Sept. 29.
Loose-leaf binding device. R. M. Lançois. 2,653,748, Sept. 29.
Lower alkyl-, carboxymethyl-, diethers of polyoxyalkylene glycols, Producing. A. B. Ash and D. R. Jackson. 2,653,972, Sept. 29.
Machine for knurling pistons. H. P. Phillips. 2,653,495, Sept. 29.
Machine for making yarn packages. R. J. Bartholomew and W. W. Egee. 2,653,774, Sept. 29.
Machine for packaging odd-shaped products. L. L. Salfisberg and E. J. David. 2,653,434, Sept. 29.
Machine for placing dishes in cartons or containers. R. C. Stenger. 2,653,743, Sept. 29.
Machine tool transmission and control mechanism. J. B. Armitage and T. F. Eserkain. 2,653,519, Sept. 29.
Magnetic memory storage circuits and apparatus. F. A. Browne, Jr. 2,654,080, Sept. 29.
Magnetic trouble lamp. K. Adamy and W. Bätz. 2,654,022, Sept. 29.
Make-up holder and applicator. C. A. Mureau. 2,653,339, Sept. 29.
Manifolding. D. A. Newman. 2,653,830, Sept. 29.
Mat, Landing. J. S. McGuire. 2,653,525, Sept. 29.
Match book holder. A. D. Hall. 2,653,705, Sept. 29.
Matrix. A. E. Nelson and H. G. Stadtler. 2,653,394, Sept. 29.
Measuring and filling device. R. MacDonald. 2,653,746, Sept. 29.
Measuring molecular impurities in rare gases. C. Kenty. 2,654,051, Sept. 29.
Metal spinning apparatus, Automatic. J. R. Tinsman, R. J. Novy, and J. E. Thurlow. 2,653,562, Sept. 29.
Metalliferous monoazo dyestuffs. C. Zickendraht and R. Wittwer. 2,653,926, Sept. 29.
Metalworking machine. E. Stiefelmayer. 2,653,561, Sept. 29.
Meter: *See*—
Q meter.
Meter compensating mechanism, Automatic. R. B. Pressler. 2,653,476, Sept. 29.
Methyl group shifting of olefin. J. P. Hogan. 2,653,981, Sept. 29.
Methyl isomelamine, Preparing. D. W. Kaiser. 2,653,935, Sept. 29.
Mill: *See*—
Conical grinding mill.
Rotary weight-impact crushing mill.
Mixing valve. L. Spencer. 2,653,628, Sept. 29.
Modified ceramic enamel. A. J. Deyrup. 2,653,877, Sept. 29.
Moisture testing apparatus. O. J. Morelock. 2,654,054, Sept. 29.
Molded articles comprising a furfuryl alcohol resin and a mixture of fillers of different mesh sizes. C. G. Harford. 2,653,920, Sept. 20.
Molded-in shunt electrical contact member. H. N. Veley. 2,654,038, Sept. 29.
Molding apparatus, Ejection. H. P. Hoopes. 2,653,870, Sept. 29.
Monoisopropyl amine as an octane improver of leaded gasoline. H. M. Trimble, L. A. McReynolds, and B. Mitacek. 2,653,862, Sept. 29.
Mop and the like, Sponge. I. J. Nicoli. 2,653,341, Sept. 29.
Mop having mechanical squeezing means, Split head. W. E. Berndsen. 2,653,336, Sept. 29.
Mop, scrubber, and wringer, Combination. T. T. Bathurst. 2,653,337, Sept. 29.
Motor and drive transmission arrangement between axially aligned vehicle driving wheels. A. C. Peterson. 2,653,673, Sept. 29.
Motor crane underframe. W. M. Sheehan. 2,653,829, Sept. 29.
Motor transmission. V. A. P. Saracchi. 2,653,690, Sept. 29.
Mouth insert pad. M. Herman. 2,653,600, Sept. 29.
Mount loading guide. C. E. Bechard and V. A. Levand, Jr. 2,653,417, Sept. 29.
Mounting: *See*—
Anticorrosion needle mounting. Incandescent mantle mounting.
Fan blade mounting. Ophthalmic mounting.
Movements of electrical measuring instruments and the like. G. N. Harding and O. F. W. Thal. 2,654,069, Sept. 29.
Multiple electric plug receptacle. D. Lancelot. 2,654,074, Sept. 29.
Multiterminal seismic cable connector system. K. W. McLoad. 2,654,077, Sept. 29.
N-carboxyglycine anhydride, Preparing the. G. A. Richardson. 2,653,946, Sept. 29.
N-carboxyphenylalanine anhydrides, Preparing the. J. B. Ott. 2,653,947, Sept. 29.
N-exo-dihydrodicyclopentadienylacrylamide. D. T. Mowry and E. L. Ringwald. 2,653,975, Sept. 29.
Nail stripper, Portable. R. Cottar. 2,653,318, Sept. 29.

Necktie construction. A. T. McCarthy. 2,653,325, Sept. 29.
Nitriles and catalysts therefor, Preparation of. H. J. Hagemeyer, Jr. 2,653,964, Sept. 29.
Nozzle and valve for aircraft, Underwing fueling. J. C. Carter. 2,653,832, Sept. 29.
Nozzle attachment. C. J. Maida. 2,653,747, Sept. 29.
Nozzle, Cotton picker. M. A. Ramires, Sr. 2,653,438, Sept. 29.
Oil burner. W. C. Gillham and A. T. Hendrix. 2,653,767, Sept. 29.
Olefin sulfitation process. W. A. Fessler. 2,653,970, Sept. 29.
1-amino-4-hydroxyanthraquinone, Manufacture of. V. Weinmayr. 2,653,954, Sept. 29.
1-(di-n-butylaminoalkylamino)-4-methylthiaxanthones and synthesis thereof. S. Archer. 2,653,949, Sept. 29.
1-(hydroxyalkylaminoalkylamino)-4-methylthiaxanthones and preparation thereof. S. Archer. 2,653,950, Sept. 29.
1-(2-diethylaminoethylamino)-4,7-dimethylthiaxanthone, acid addition salts thereof and preparation of these compounds. S. Archer. 2,653,951, Sept. 29.
Opener, Nut. A. N. Nelson. 2,653,638, Sept. 29.
Ophthalmic mounting. J. A. Martin. 2,653,513, Sept. 29.
Ophthalmic mounting. E. M. Splaine. 2,653,514, Sept. 29.
Ortho-hydroxyarylcarboxylic acid-B-naphthylamides, Manufacture of. A. Hagenboecker. 2,653,974, Sept. 29.
Oscillator, Wind machine. D. L. Kinder. 2,653,482, Sept. 29.
Oven, Foundry drying. E. W. von Hofen and F. R. Whitney. 2,653,392, Sept. 29.
Overload reset circuit. H. F. Mayer. 2,654,052, Sept. 29.
Oxidation control. R. L. Mitchell and O. V. Lake. 2,653,962, Sept. 29.
Packaging arrangement. G. C. Cunningham and H. A. Kilmer. 2,653,709, Sept. 29.
Packaging material and making, Corrosion inhibiting. C. H. Schaar. 2,653,854, Sept. 29.
Packaging, Method and means for. F. H. Fitzgerald. 2,653,429, Sept. 29.
Packaging window shades. C. M. Judd. 2,653,710, Sept. 29.
Pad: *See*—
Mouth insert pad.
Pants guard for coat hangers, Slip resistant. W. F. Tufts. 2,653,740, Sept. 29.
Paper and making, High-strength. R. P. Kast. 2,653,870, Sept. 29.
Paper machine. L. Hornbostel. 2,653,522, Sept. 29.
Parasite plane retrieving and towing mechanism. H. D. Barkey. 2,653,777, Sept. 29.
Parts washer with safety hose. A. J. Zaber. 2,653,617, Sept. 29.
Peanuts and the product resulting therefrom, Preparing. J. N. Wergeland. 2,653,875, Sept. 29.
Pedestal. S. E. McCullough. 2,653,451, Sept. 29.
Pencil pointer cup. R. J. Slattery. 2,653,576, Sept. 29.
Photographic and view finder lens turret coupling for photographic cameras. A. C. Mueller. 2,653,528, Sept. 29.
Photographic print-receiving sheet, Composite. W. J. McCune, Jr. 2,653,530, Sept. 29.
Photographic product comprising a rupturable container carrying a liquid for processing said product. E. H. Land. 2,653,872, Sept. 29.
Pinch clamp. G. H. Myrick. 2,653,787, Sept. 29.
Pipe stem, Smoking. W. R. McReynolds. 2,653,615, Sept. 29.
Pipe union, Insulated. R. C. Purkhiser. 2,653,834, Sept. 29.
Pitch lock. E. Martin and T. B. Rhines. 2,653,671, Sept. 29.
Pitch propeller, Controllable. A. S. Odevseff. 2,653,670, Sept. 29.
Plow hitch. R. V. Collins. 2,653,531, Sept. 29.
Plow with snubber attachment. W. T. Graham. 2,653,532, Sept. 29.
Plumbing installation, Prefabricated. J. F. and J. W. Sanders. 2,653,357, Sept. 29.
Plunger pump. N. B. Tveden. 2,653,756, Sept. 29.
Polishing machine, Shoe. P. F. Arnold. 2,653,694, Sept. 29.
Polyvinyl methyl ether, Preparation of a. J. F. Shekleton. 2,653,923, Sept. 29.
Porous material useful in battery separators. J. A. Baty. 2,653,987, Sept. 29.
Portable hod rack. J. R. Niemeier. 2,653,781, Sept. 29.
Positioner for fluid operated motors. C. B. Moore. 2,653,578, Sept. 29.
Potato separating machine, Pneumatic. C. R. and N. D. Leighton. 2,653,712, Sept. 29.
Power transmission. W. G. Finlayson. 2,653,626, Sept. 29.
Power transmission. D. B. Gardiner, E. F. Klessig, and H. C. Parsons. 2,653,550, Sept. 29.
Precipitation of aluminum hydroxide. R. W. Brown. 2,653,858, Sept. 29.
Press assembly, Reverse suction. L. Hornbostel. 2,653,523, Sept. 29.
Press safety jack. W. Bradbering. 2,653,560, Sept. 29.
Pressure regulator. T. A. St. Clair. 2,653,793, Sept. 29.
Printer, Cylindrical contact. H. B. Stover. 2,653,529, Sept. 29.
Printing apparatus, Rotary photogravure. A. M. Halley. 2,653,535, Sept. 29.
Printing machine, Rotary. A. M. Haley. 2,653,539, Sept. 29.
Printing machine, Wire character forming. W. Wockenfus. 2,653,534, Sept. 29.
Printing system for photocomposing machines or the like. W. E. Peery. 2,653,526, Sept. 29.
Processing mineral fibers. H. W. Beaman. 2,653,355, Sept. 29.
Processing wood. C. D. Dooker. 2,653,890, Sept. 29.
Producing packaged units of commodities, Method of and apparatus for. C. W. Vogt. 2,653,430, Sept. 29.
Projector apparatus, Slide. G. L. Brock. 2,653,512, Sept. 29.
Prong cap for snap fasteners. H. J. Reiter. 2,653,266, Sept. 29.
Prop, Clothesline. K. S. La Ruesa. 2,653,785, Sept. 29.
Propelling mechanism. E. Robertson. 2,653,720, Sept. 29.
Protruding hemorrhoid supporter. F. I. Bell. 2,653,599, Sept. 29.
Pulp treating apparatus. K. A. Karlsson. 2,653,520, Sept. 29.
Pulse demodulating system. E. Baum. 2,654,027, Sept. 29.
Pulse generating and selecting apparatus. M. M. Levy. 2,654,028, Sept. 29.
Pump: *See*—
Eccentric pump. Plunger pump.
Fluid pump. Radial piston rotary pump.
High-pressure pump. Self-priming pump.
Hydraulic pump.
Internally ported vane type pump.
Pump operating levers and operating springs therefor, Fuel and vacuum. M. Katcher. 2,653,544, Sept. 29.
Purification of acrylonitrile. K. M. Taylor and H. M. Walker. 2,653,966, Sept. 29.
Pusher attachment for presses. E. A. Burns. 2,653,661, Sept. 29.
Pyran derivatives. F. Kögl and C. A. Salemink. 2,653,945, Sept. 29.
Pyran derivatives and the manufacture thereof. F. Kögl and C. A. Salemink. 2,653,943, Sept. 29.
Pyronone derivatives and the manufacture thereof. F. Kögl and C. A. Salemink. 2,653,944, Sept. 29.
Q meter. J. Rosenbaum. 2,654,066, Sept. 29.
Rack: *See*—
Combination storage and dispensing rack. Portable hod rack.
Radar equipment. H. de Lange, Dz. 2,654,083, Sept. 29.
Radial piston rotary pump. R. F. Horton. 2,653,542, Sept. 29.
Radiation counter. W. H. McCurdy, J. H. Findlay and L. C. Werner. 2,654,041, Sept. 29.
Radiator valve tester. M. Couper. 2,653,470, Sept. 29.
Radio circuit arrangement. W. W. Boelens. 2,654,026, Sept. 29.
Razor and blade changer. J. M. Austin. 2,653,379, Sept. 29.
Receptable: *See*—
Multiple electric plug receptable. Ticket stacking receptacle.
Reclaiming apparatus and method. J. C. Elgin and E. F. Sverdrup. 2,653,349, Sept. 29.
Reclaiming rubber and reclaimed rubber products. J. C. Elgin and E. F. Sverdrup. 2,653,915, Sept. 29.
Reclaiming scrap vulcanized material. J. C. Elgin and E. F. Sverdrup. 2,653,916, Sept. 29.
Reclaiming scrap vulcanized material using an olefin as reclaiming agent. J. C. Elgin and E. F. Sverdrup. 2,653,914, Sept. 29.
Recorder, Speedgraph. E. C. Goodwin. 2,653,853, Sept. 29.
Recording system, Magnetic. B. Roberts. 2,653,819, Sept. 29.
Recovering oxygenated organic compounds. F. J. Moore and H. V. Hess. 2,653,959, Sept. 29.
Recovery of metals from metallurgical slag. L. J. Lichty. 2,653,868, Sept. 29.
Recovery of oxygen compounds from Fischer-Tropsch product. H. W. Fleming. 2,653,961, Sept. 29.
Reduction of metal oxides. T. Lindsley and L. J. Lichty. 2,653,867, Sept. 29.
Refining chlorinated benzenes. D. L. Hanna and B. O. Strom. 2,653,904, Sept. 29.
Refrigeration system, Continuous absorption. J. Buchel. 2,653,454, Sept. 29.
Register controller, Multipotential type. G. Deakin. 2,654,000, Sept. 29.
Regulating the gas pressure in containers, Process and means for. T. D. Morgan. 2,653,620, Sept. 29.
Regulator: *See*—
Axial flow fan regulator. Synchronously operated regulator.
Compressor regulator.
Pressure regulator.
Reinforced V-band clamp. C. E. Christophersen and G. A. Mahoff. 2,653,836, Sept. 29.
Remote-control system. W. A. Derr. 2,653,998, Sept. 29.
Repair service manifolding set. R. H. Dickson. 2,653,831, Sept. 29.

Retainer for initials or other indicia, and a watch construction containing same. E. Kupchick. 2,653,442, Sept. 29.
Ring. A. Bonagura. 2,653,402, Sept. 29.
Rolling mill and coiling apparatus. H. F. Anderson. 2,653,496, Sept. 29.
Rolling mill turn-up guide. W. A. Ebert and R. A. Connelly. 2,653,497, Sept. 29.
Rotary, Permanent. J. J. Cummings and A. J. Shimkus. 2,653,395, Sept. 29.
Rotary pressure fluid seal. J. T. Barron. 2,653,833, Sept. 29.
Rotary weight-impact crushing mill. N. L. Hall. 2,653,769, Sept. 29.
Ruffling machine. H. Kruglick. 2,653,558, Sept. 29.
Safety device for instrument approach systems. C. C. Pine and C. L. Sharp. 2,654,086, Sept. 29.
Saw-tooth wave generator. W. Reinhard. 2,654,050, Sept. 29.
Scale, Dial-type. B. P. Adams. 2,653,565, Sept. 29.
Screw driver, Magnetic. C. R. Younkin. 2,653,636, Sept. 29.
Seal with O ring, High-pressure rotary. C. F. Voytech. 2,653,837, Sept. 29.
Selecting and controlling mechanism for movable parts. O. J. J. Bracke and G. X. Lens. 2,653,496, Sept. 29.
Self-centering roll, Automatic. E. T. Lorig. 2,653,814, Sept. 29.
Self-priming pump. A. S. Marlow, Jr. 2,653,546, Sept. 29.
Semiconductor, Electric. K. A. Matthews and C. D. White. 2,653,374, Sept. 29.
Separator: *See*—
Battery plate separator.
Sequence switch circuit. C. E. Lomax. 2,654,001, Sept. 29.
Sequence valve. E. F. Kiessig. 2,653,624, Sept. 29.
Sewage recirculation. L. B. Grimth. 2,653,907, Sept. 29.
Sewing machine. R. Casas-Robert and J. Court. 2,653,557, Sept. 29.
Shank-grip slidable side jaw wrench. M. W. Hunter. 2,653,501, Sept. 29.
Sharpener, Screw driver. F. Kobos. 2,653,421, Sept. 29.
Shear, Flying. F. C. Biggert, Jr. 2,653,662, Sept. 29.
Shock absorber. W. D. McIntyre. 2,653,681, Sept. 29.
Shock absorber. R. H. Whisler, Jr., and D. A. Palmer. 2,653,682, Sept. 29.
Shock absorber, Friction type. C. Saurer and F. M. Guy. 2,653,684, Sept. 29.
Shock absorber, Telescopic. J. N. Strauss. 2,653,683, Sept. 29.
Shock stabilizer for vehicle axles. C. M. Rider. 2,653,811, Sept. 29.
Shoe heel surfacing machine. J. P. Quirk and L. G. P. Hafner. 2,653,424, Sept. 29.
Signal apparatus for motor vehicles, Safety. C. Ringwald. 2,654,079, Sept. 29.
Signal control system, Highway crossing. O. W. Rost. 2,654,023, Sept. 29.
Signal translating device, Semiconductor. W. Shockley. 2,654,059, Sept. 29.
Silent chain. T. F. MacArthur. 2,653,485, Sept. 29.
Single-edge blade dispenser. E. A. Nelson. 2,653,704, Sept. 29.
Skate with removable truck assembly, Roller. G. K. Ware. 2,653,821, Sept. 29.
Sled, Football training. A. R. Young and J. D. Isola. 2,653,816, Sept. 29.
Sliding door. A. T. C. Burrows. 2,653,359, Sept. 29.
Smoke detector. C. N. Cahusac and F. B. Allen. 2,654,082, Sept. 29.
Snow-plow attachment for lawn shears. J. L. Butler. 2,653,397, Sept. 29.
Soil irrigation system. F. Stauch. 2,653,449, Sept. 29.
Soluble oils comprising neutralized oxidized petroleum oils. D. Frazier. 2,653,909, Sept. 29.
Speed mechanism, Adjustable. J. S. Martin and A. I. Sans. 2,653,487, Sept. 29.
Splash guard for dump trucks, Rear wheel. G. D. Wiley. 2,653,846, Sept. 29.
Splash mixer for dental castings. D. Pellegrini. 2,653,361, Sept. 29.
Spring lock lamp holder. J. A. Wasselle. 2,653,784, Sept. 29.
Stacking machine, Ticket. R. I. N. Weingart. 2,653,759, Sept. 29.
Stapler, Hammer. W. R. Beckman and C. E. Crooks. 2,653,316, Sept. 29.
Stapling machine, Hammen type. W. R. Beckman, A. G. Schilke, and C. E. Crooks. 2,653,317, Sept. 29.
Starter and ignition switch, Combined. N. H. Weber. 2,654,005, Sept. 29.
Starter drive, Hydraulic. A. C. Jenny. 2,653,577, Sept. 29.
Steel and die casting cleaning process, Combination. J. A. Thomas. 2,653,883, Sept. 29.
Stereoscopic projection apparatus. G. Correa. 2,653,511, Sept. 29.
Stop nut. F. Wellman. 2,653,641, Sept. 29.
Stove, Convertible solid and liquid fuel-burning. J. M. Dunston. 2,653,596, Sept. 29.
Stove, Electrically heated steam-bath. N. B. Sandberg. 2,654,018, Sept. 29.
Strainer for coffee makers. F. W. Storner. 2,653,717, Sept. 29.
Strap end, Adjustable width. E. Rodrigues. 2,653,369, Sept. 29.
Structural joint. A. Routt. 2,653,686, Sept. 29.
Stuffing machine, Sausage. H. H. Wright and C. L. Harder. 2,653,432, Sept. 29.
Submerged valve oil cooler. R. W. Jensen. 2,653,797, Sept. 29.
Suction cleaner conversion arrangement. H. G. Kunkler. 2,653,343, Sept. 29.
Sugar bowl, Automatic. C. B. Stoker. 2,653,734, Sept. 29.
Sunray heat cabinet. C. R. Hoge. 2,653,612, Sept. 29.
Supercharger arrangement. G. N. Cole and J. S. Hasbrouck. 2,653,591, Sept. 29.
Supplying articles for use in packaging. C. W. Vogt. 2,653,813, Sept. 29.
Supplying packing machine or the like with cigarettes. L. Bergman. 2,653,723, Sept. 29.
Support for field coils of dynamoelectric machines. M. Henter. 2,654,037, Sept. 29.
Support wire forming apparatus. C. T. Vaughan. 2,653,631, Sept. 29.
Suppressor for solid particles and fumes. R. C. Ortgies. 2,653,674, Sept. 29.
Swinging device for vibratory conveyers and the like. G. Limke. 2,653,702, Sept. 29.
Switch: *See*—
Automatic switch.
Electric switch.
Vacuum switch.
Switch. J. M. Wallace and P. Silvius. 2,653,488, Sept. 29.
Switch centering apparatus, Limit. W. H. Gille. 2,654,061, Sept. 29.
Switch control system, Electron. T. H. Clark. 2,654,049, Sept. 29.
Switchgear, Low tension electric. G. Kilminster. 2,654,055, Sept. 29.
Switch unit, Light. W. H. Schafer. 2,654,006, Sept. 29.
Swivel fastener. P. D. Becker. 2,653,415, Sept. 29.
Synchronizing circuit. R. B. Dome. 2,654,033, Sept. 29.
Synchronously operated regulator. A. M. Cohen. 2,654,063, Sept. 29.
Synthetic detergent cakes. W. J. D. van Dijck and B. P. Geyer. 2,653,913, Sept. 29.
Table and chair, Collapsible. A. E. F. de Martini. 2,653,652, Sept. 29.
Tanning materials and preparing the same. K. P. Monroe. 2,653,967, Sept. 29.
Tape guiding apparatus. D. Picucci. 2,653,559, Sept. 29.
Taping machine. A. A. Wagner, A. J. Werner, and W. R. Ross. 2,653,727, Sept. 29.
Telegraph system, Electric. E. P. G. Wright. 2,653,996, Sept. 29.
Teleprinter, Frequency shift. C. A. Higgins. 2,654,025, Sept. 29.
Telescopic sight mount base, Adjustable. J. L. Winton. 2,653,386, Sept. 29.
Teletypewriter. A. A. and M. F. Sweeny. 2,653,997, Sept. 29.
Television optical system, Simultaneous color. A. C. Schroeder and G. C. Sziklai. 2,653,993, Sept. 29.
Television receiver volume control, Intercarrier sound type. H. G. Boyle. 2,653,995, Sept. 29.
Temperature indicator for hand pressing irons. Z. Burreson. 2,653,480, Sept. 29.
Temporary protection of unvulcanized rubbery surfaces. T. C. Harper. 2,653,885, Sept. 29.
Tens-transfer mechanism of the differential type. R. Buzzi. 2,653,766, Sept. 29.
Terminal construction for electric coil forms. R. M. Hill. 2,653,992, Sept. 29.
Tertiary acrylic acid esters from acetylene, Preparing. O. Albrecht and A. Maeder. 2,653,969, Sept. 29.
Test probe. J. J. Gabore. 2,654,075, Sept. 29.
Testing instrument having insulation piercing and wire gripping means, Electrical. C. W. Hudlow. 2,654,076, Sept. 29.
Tetrakisazo-dyestuffs. R. Fleischhauer. 2,653,929, Sept. 29.
Thermal power generation. E. Mercier and M. Ehlinger. 2,653,443, Sept. 29.
Thermoacoustic gas analyzer. D. H. Clewell. 2,653,471, Sept. 29.
Thermocouple unit. S. G. Best. 2,653,983, Sept. 29.
Thioisonicotinamide. J. Lee. 2,653,942, Sept. 29.
3,4-benzopyrene-1,5-quinone. H. E. Schroeder. 2,653,953, Sept. 29.
3,7-dihalo-4-hydroxyquinolines. M. E. Hultquist and T. F. Scholz. 2,653,941, Sept. 29.
Ticket stacking receptacle. R. I. N. Weingart. 2,653,760, Sept. 29.
Tilting mechanism for tractor loaders. L. H. Lull. 2,653,722, Sept. 29.
Timing apparatus, Thermal. P. G. Hughes. 2,654,010, Sept. 29.
Tire building machine. L. C. Frasier. 2,653,645, Sept. 29.
Tire removing device, Circumferentially adjustable. R. A. Weaver. 2,653,653, Sept. 29.
Toggle fastener. J. Love. 2,653,842, Sept. 29.
Tongue attaching device, Bendable. W. H. Churchill. 2,653,687, Sept. 29.

Tongue depressor and mirror therefor. W. T. Canan. 2,653,597, Sept. 29.
Tool: *See*—
Automatic machine tool.
Cam operated synchro-ring staking tool.
Fisherman's plier type shot splitting tool.
Tool. W. H. Alexander. 2,653,375, Sept. 29.
Tool for applying wire hose clamps and making other wire connections. J. G. Truesdell. 2,653,498, Sept. 29.
Tool support having positive latch means, Rotatable. R. A. Mott. 2,653,634, Sept. 29.
Toothbrush and gum massager, Combined. V. Torino. 2,653,598, Sept. 29.
Torque transformers, Automatic. J. F. G. M. L. Charpentier. 2,653,480, Sept. 29.
Total treatment of copper-containing iron pyrites. S. A. Aannerud. 2,653,905, Sept. 29.
Traction device for vehicles. R. T. Cella. 2,653,642, Sept. 29.
Tractor implement hitch. E. V. Collins. 2,653,825, Sept. 29.
Transfusion apparatus. G. R. Ryan. 2,653,606, Sept. 29.
Trap: *See*—
Hydraulic system air trap.
Traverse rod and supporting bracket. J. N. Graber. 2,653,344, Sept. 29.
Treating fibrous materials to improve their bonds with rubber. A. H. Gentle and T. Jackson. 2,653,886, Sept. 29.
Treating fibrous materials to improve their bonds with rubber and the products thereof. A. H. Gentle and T. Jackson. 2,653,891, Sept. 29.
Treating fibrous materials to improve their bonds with vinyl chloride polymers and the products thereof. A. H. Gentle and T. Jackson. 2,653,892, Sept. 29.
Treating photosensitive materials by spreading thereon a layer of processing liquid and apparatus for performing said process. E. H. Land. 2,653,527, Sept. 29.
Treating synthesis product. H. V. Hess, G. B. Arnold, and M. L. Drabkin. 2,653,960, Sept. 29.
Treatment of filtering apparatus. E. J. Corona. 2,653,716, Sept. 29.
Truck body, Self-unloading. R. A. McBride. 2,653,724, Sept. 29.
Truck step climbing mechanism, Hand. S. B. Wessic. 2,653,672, Sept. 29.
Truck trailer, Vertically adjustable. D. M. Manning. 2,653,827, Sept. 29.
Tube: *See*—
Beam traveling wave amplifier tube.
Electron beam vacuum tube.
Electric discharge tube.
Tubing, Producing. G. Slayter. 2,653,887, Sept. 29.
Tubular container and pressure tight closure. J. C. A. Fitch. 2,653,730, Sept. 29.
Turban cap. A. M. Ged. 2,653,326, Sept. 29.
Turbo compressor jet-propulsion apparatus and adjustable nozzle therefor. F. B. Halford and E. S. Moult. 2,653,445, Sept. 29.
Twine holder. A. J. Rochow. 2,653,776, Sept. 29.
Umbrella rib, Folding. P. Schmidt. 2,653,619, Sept. 29.
Undergarment. D. Blair. 2,653,322, Sept. 29.
Unitary magnetic pole pieces, Making. W. A. Fletcher and C. L. Clevenger. 2,653,376, Sept. 29.
Universal joint. L. S. Heym. 2,653,456, Sept. 29.
Utility unit for electric appliances and the like. J. E. Milander and J. W. Gaba. 2,654,056, Sept. 29.
Vacuum switch. F. W. Hottenroth. 2,653,629, Sept. 29.
Valve: *See*—
Intermittent fuel injection valve.
Mixing valve.
Sequence valve.
Valve. R. Eichenberg. 2,653,789, Sept. 29.
Valve. F. H. Mueller. 2,653,791, Sept. 29.
Valve closing mechanism, Time controlled. A. M. Bloom. 2,653,659, Sept. 29.
Valve for fuel burners, Automatic safety. W. A. Ray. 2,653,622, Sept. 29.
Valve for railroad cars, Auxiliary brake control. T. James, Jr. 2,653,849, Sept. 29.
Valve or the like, Tamperproof. W. J. Bowan and W. E. Gould. 2,653,790, Sept. 29.
Valve spring surge damping and valve rotating device. C. A. Rasmussen and R. T. Doughty. 2,653,587, Sept. 29.
Valve with plug mating a flanged nonmetallic sealing element, Check. C. R. Sacchini. 2,653,792, Sept. 29.
Vehicle towage control. G. F. Martin. 2,653,822, Sept. 29.
Venetian blind cover. M. E. Skwark. 2,653,657, Sept. 29.
Vine dividing means. T. R. Warner. 2,653,436, Sept. 29.
Vinyl chloride polymers plasticized with addition products of esters. J. Dazzi. 2,653,948, Sept. 29.
Vitamin B_{12} purification process. A. J. Holland. 2,653,900, Sept. 29.
Vulcanization accelerators. J. F. Olin. 2,653,924–5, Sept. 29.
Wall structure, Retaining. L. M. Fort. 2,653,450, Sept. 29.
Washing machine. T. R. Smith. 2,653,483, Sept. 29.
Water heater. E. E. Granger. 2,653,583, Sept. 29.
Water-soluble compound of theophylline and 3-aminomethyl-pyridine and the manufacture thereof. R. Schlipfer. 2,653,939, Sept. 29.
Waterer, Automatic poultry. J. T. Polhemus. 2,653,572, Sept. 29.
Wax applicating and dispensing unit. A. A. Johnson. 2,653,335, Sept. 29.
Wax applicating and dispensing unit. A. A. Johnson. 2,653,338, Sept. 29.
Weighting and mixing device. J. G. Blakey. 2,653,786, Sept. 29.
Weight analyzer, Multiple platform. K. J. Kraus. 2,653,475, Sept. 29.
Well digging apparatus. D. E. Straitiff. 2,653,794, Sept. 29.
Well installation for subsurface hydraulic pumps. O. E. Dempsey and J. B. Woods. 2,653,545, Sept. 29.
Wheel: *See*—
Erosion resisting fan wheel.
Wheel chair with detachable armrest. W. A. Linquist. 2,653,649, Sept. 29.
Whirling flame spinner. L. M. Salmon. 2,653,655, Sept. 29.
Wide band transformer. F. H. McIntosh. 2,654,058, Sept. 29.
Winding machine. B. B. Scott. 2,653,772, Sept. 29.
Winding machine, Electric coil. F. B. Turner. 2,653,771, Sept. 29.
Window-washing machine. M. Brysman. 2,653,333, Sept. 29.
Windshield wiper, Electrically heated. W. L. Martin. 2,654,016, Sept. 29.
Wire device for recorders, Slide. E. Umrath. 2,654,013, Sept. 29.
Wire-spooling apparatus. B. H. Davis. 2,653,773, Sept. 29.
Work handling apparatus for crankshaft lathes. W. R. Meyer and H. J. Siekmann. 2,653,502, Sept. 29.
Wrap stripe attachment for knitting machines. B. H. Jordan. 2,653,462, Sept. 29.
Wrapper tucking mechanism. R. E. Taggart. 2,653,435, Sept. 29.
Wrench: *See*—
Shank-grip slidable side jaw wrench.
Wrench. G. W. Dyer. 2,653,500, Sept. 29.
Yarn made of blended fibers. A. F. Burkardt. 2,653,441, Sept. 29.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 29, 1953

NOTE.—First number—class, second number—subclass, third number—patent number.

1— 46.1: 2,653,316
2,653,317
49.7: 2,653,318
2— 18: 2,653,319
20: 2,653,320
36: 2,653,321
2,653,322
42: 2,653,323
49: 2,653,324
148: 2,653,325
198: 2,653,326
3— 13: 2,653,327
2,653,328
5— 20: 2,653,329
94: 2,653,330
208: 2,653,331
7— 5.1: 2,653,332
15—104.14: 2,653,334
118: 2,653,335
119: 2,653,336
2,653,337
131: 2,653,338
2,653,339
199: 2,653,340
244: 2,653,341
265: 2,653,333
327: 2,653,342
333: 2,653,343
16— 94: 2,653,344
17— 5: 2,653,345
11.3: 2,653,346
44: 2,653,347
18— 12: 2,653,348
2,653,349
2,653,350
2,653,351
13: 2,653,352
19— 67: 2,653,353
106: 2,653,354
168: 2,653,355
20— 2: 2,653,356
4: 2,653,357
7: 2,653,358
19: 2,653,359
92: 2,653,360
21— 2.5: 2,653,354
22— 9: 2,653,361
23— 19: 2,653,355
88: 2,653,356
2,653,357
143: 2,653,358
277: 2,653,359
24— 22: 2,653,362
72.5: 2,653,363
77: 2,653,364
170: 2,653,365
216: 2,653,366
2,653,367
242: 2,653,368
265: 2,653,369
26— 120: 2,653,370
2,653,371
28— 78: 2,653,372
29— 6: 2,653,373
25.3: 2,653,374
90: 2,653,375
155.5: 2,653,376
156.8: 2,653,377
268: 2,653,378
30— 40: 2,653,379
133: 2,653,380
208: 2,653,381
209: 2,653,382
32— 26: 2,653,383
2,653,384
67: 2,653,385
33— 56: 2,653,386
78: 2,653,387
197: 2,653,388
205.5: 2,653,389
222: 2,653,390
34— 13: 2,653,391
104: 2,653,392
137: 2,653,393
143: 2,653,394
35— 23: 2,653,395
36— 71: 2,653,396
37— 53: 2,653,397
38— 77: 2,653,398
121: 2,653,399
40— 3: 2,653,400
2,653,401
140: 2,653,402
41— 42: 2,653,860
2,653,861
43— 11: 2,653,403
12: 2,653,404
16: 2,653,405
28: 2,653,406
36: 2,653,407
42.12: 2,653,408
42.51: 2,653,409
44— 60: 2,653,862
45— 24: 2,653,410
46— 117: 2,653,411
2,653,412
119: 2,653,413
160: 2,653,414
173: 2,653,415
47— 61: P. P. 1218
49— 1: 2,653,416
2: 2,653,417
17.1: 2,653,418
86: 2,653,419
51— 8: 2,653,420
80: 2,653,421
101: 2,653,427
131: 2,653,422
2,653,423
134: Re. 23,715
145: 2,653,424
169: 2,653,425
186: 2,653,426
200: Re. 23,717
222: 2,653,426
52— 21: 2,653,863
53— 9: 2,653,429
15: 2,653,430
57: 2,653,431
61: 2,653,432
66: 2,653,433
86: 2,653,434
151: 2,653,435
56— 1: 2,653,436
7: 2,653,437
22: 2,653,438
57— 7: 2,653,439
53: 2,653,440
130: 2,653,441
58— 86: 2,653,442
60— 13: 2,653,443
19: 2,653,444
35.6: 2,653,445
2,653,446
49: 2,653,447
59: 2,653,448
61— 13: 2,653,449
30: 2,653,450
46: 2,653,451
2,653,452
62— 3: 2,653,453
5: 2,653,454
175.5: 2,653,455
64— 7: 2,653,456
12: 2,653,457
25: 2,653,458
27: 2,653,459
65— 63: 2,653,460
96: 2,653,461
135: 2,653,462
160: 2,653,463
67— 38: 2,653,464
68— 21: 2,653,465
178: 2,653,466
70— 359: 2,653,467
71— 2.3: 2,653,864
2.5: 2,653,865
2,653,866
72— 1: 2,653,468
89: 2,653,469
73— 1: 2,653,470
24: 2,653,471
116: 2,653,472
189: 2,653,473
73— 151: 2,653,474
172: 2,653,475
244: 2,653,476
302: 2,653,477
309: 2,653,478
330: 2,653,479
343: 2,653,480
74— 5.37: 2,653,481
29: 2,653,482
40: 2,653,484
242.15: 2,653,483
253: 2,653,485
471: 2,653,486
472: 2,653,487
527: 2,653,488
680: 2,653,490
751: 2,653,489
789: 2,653,491
75— 11: 2,653,867
24: 2,653,868
84: 2,653,869
76— 110: 2,653,492
76— 1: 2,653,493
81: 2,653,494
80— 5.1: 2,653,495
22: 2,653,496
53: 2,653,497
81— 9.3: 2,653,498
28: 2,653,499
62: 2,653,500
151: 2,653,501
82— 2.5: 2,653,502
31: 2,653,503
85— 1: 2,653,504
8.3: 2,653,505
87— 33: 2,653,506
88— 18: 2,653,507
18.2: 2,653,508
24: 2,653,509
2,653,510
28: 2,653,511
28: 2,653,512
47: 2,653,513
2,653,514
54.8: 2,653,515
57: 2,653,516
90— 11: 2,653,517
13.1: 2,653,518
21: 2,653,519
92— 3: 2,653,870
28: 2,653,520
36: 2,653,521
40: 2,653,522
2,653,523
93— 51: 2,653,524
94— 4: 2,653,525
95— 4.5: 2,653,526
5.6: 2,653,871
8: 2,653,872
9: 2,653,873
13: 2,653,527
44: 2,653,528
77.5: 2,653,529
88: 2,653,530
2,653,874
97—47.33: 2,653,531
198.1: 2,653,532
99— 126: 2,653,875
182: 2,653,876
193: 2,653,530
391: 2,653,533
101— 93: 2,653,534
157: 2,653,535
180: 2,653,536
247: 2,653,537
268: 2,653,538
352: 2,653,539
436: 2,653,540
102— 6: 2,653,541
103— 4: 2,653,542
5: 2,653,543
9: 2,653,544
46: 2,653,545
113: 2,653,546
115: 2,653,547
121: 2,653,548
126: 2,653,549
109— 126: 2,653,550
2,653,551
182: 2,653,552
106— 49: 2,653,877
58: 2,653,878
108— 1: 2,653,553
110— 29: 2,653,554
118: 2,653,555
112— 84: 2,653,556
98: 2,653,557
132: 2,653,558
152: 2,653,559
113— 38: 2,653,560
52: 2,653,561
2,653,562
114— 30: 2,653,563
116— 118: 2,653,564
122: 2,653,565
117— 68: 2,653,879
68.5: 2,653,880
122: 2,653,881
118— 62: 2,653,566
119— 14.4: 2,653,567
18.5: 2,653,568
18: 2,653,569
52: 2,653,570
53.5: 2,653,571
79: 2,653,572
109: 2,653,573
154: 2,653,574
157: 2,653,575
120— 91: 2,653,576
121— 37: 2,653,577
41: 2,653,578
2,653,579
46.5: 2,653,580
81: 2,653,581
122— 30: 2,653,582
125: 2,653,583
123— 32: 2,653,584
41.20: 2,653,585
41.72: 2,653,586
90: 2,653,587
119: 2,653,588
2,653,589
191: 2,653,590
195: 2,653,591
124— 7: 2,653,592
13: 2,653,593
125— 23: 2,653,594
30: 2,653,595
60: 2,653,596
126— 15: 2,653,597
57: 2,653,598
98: 2,653,599
136: 2,653,600
165: 2,653,601
173: 2,653,602
2,653,603
2,653,604
2,653,605
214: 2,653,606
221: 2,653,607
268: 2,653,608
272: 2,653,609
2,653,610
2,653,611
372: 2,653,612
129— 8: 2,653,748
131— 170: 2,653,613
174: 2,653,614
229: 2,653,615
257: 2,653,616
134— 10: 2,653,882
30: 2,653,883
56: 2,653,617
93: 2,653,618
135— 31: 2,653,619
136— 4: 2,653,983
22: 2,653,984
145: 2,653,985
2,653,986
148: 2,684,987
161: 2,653,988
137— 14: 2,653,620
53: 2,653,621
68: 2,653,622
137— 413: 2,653,623
540: 2,653,624
599: 2,653,625
599.2: 2,653,626
633: 2,653,627
636: 2,653,628
787: 2,653,629
140—71: 2,653,630
71.6: 2,653,631
104: 2,653,632
143— 171: 2,653,633
144— 1: 2,653,634
208: 2,653,635
145— 50: 2,653,636
61: 2,653,637
146— 12: 2,653,638
147— 47: 2,653,639
150— 28: 2,653,640
151— 21: 2,653,641
182— 213: 2,653,642
153— 54: 2,653,643
154— 1: 2,653,644
9: 2,653,645
42: 2,653,646
2,653,647
43: 2,653,894
48: 2,653,895
52: 2,653,896
83: 2,653,897
116: 2,653,898
125: 2,653,899
2,653,900
138: 2,653,901
2,653,902
155— 25: 2,653,648
30: 2,653,649
38: 2,653,650
179: 2,653,651
194: 2,653,652
157— 1.24: 2,653,653
158— 28: 2,653,654
99: 2,653,655
160— 19: 2,653,656
34: 2,653,657
330: 2,653,658
161— 7: 2,653,659
164— 10.6: 2,653,660
48: 2,653,661
49: 2,653,662
57: 2,653,663
108: 2,653,664
117: 2,653,665
166— 13: 2,653,666
167— 14: 2,653,667
22: 2,653,894
30: 2,653,895
2,653,896
65: 2,653,897
2,653,898
2,653,899
81: 2,653,900
82.9: 2,653,901
90: 2,653,902
169— 31: 2,653,667
170—100.2: 2,653,668
100.21: 2,653,669
100.32: 2,653,670
100.33: 2,653,671
174— 38: 2,653,669
68: 2,653,900
99: 2,653,901
138: 2,653,902
178— 5.4: 2,653,903
2,653,904
5.8: 2,653,905
23: 2,653,906
68: 2,653,907
179— 2.8: 2,653,908
16: 2,653,909
18: 2,654,000
2,654,001
84: 2,654,002
100.2: 2,654,003
171: 2,654,004
180— 8: 2,653,672
68: 2,653,673
183— 6: 2,653,674
183— 9: 2,653,675
60: 2,653,676
187— 8.75: 2,653,677
9: 2,653,678
2,653,679
188— 3: 2,653,680
88: 2,653,681
2,653,682
2,653,683
120: 2,653,684
189— 15: 2,653,685
36: 2,653,686
2,653,687
91: 2,653,688
192— 4: 2,653,689
2,653,690
8: 2,653,691
60: 2,653,692
194— 4: 2,653,693
6: 2,653,694
196— 55: 2,653,695
197— 181: 2,653,696
198— 8: 2,653,697
23: 2,653,687
39: 2,653,688
181: 2,653,689
202: 2,653,700
217: 2,653,701
220: 2,653,702
200— 44: 2,654,009
51.04: 2,654,008
83: 2,654,007
88: 2,654,006
109: 2,654,010
122: 2,654,010
144: 2,654,011
147: 2,654,012
201— 56: 2,654,013
202— 57: 2,653,904
204— 112: 2,653,905
197: 2,653,906
206— 84: 2,653,703
16: 2,653,704
33: 2,653,705
42: 2,653,706
45.19: 2,653,707
46: 2,653,708
2,653,709
89: 2,653,710
209— 81: 2,653,711
139: 2,653,712
218: 2,653,713
319: 2,653,714
457: 2,653,715
210— 8: 2,653,907
16: 2,653,908
55: Re. 23,714
62: 2,653,716
162: 2,653,717
211—106.2: 2,653,718
119.12: 2,653,719
214— 1: 2,653,720
78: Re. 23,718
83.28: 2,653,721
149: 2,653,722
202: 2,653,723
319: 2,653,724
651: 2,653,725
215— 22: 2,653,726
216— 22: 2,653,727
219— 6: 2,654,014
10: 2,654,015
19: 2,654,016
34: 2,654,017
38: 2,654,018
47: 2,654,020
220— 24.5: 2,653,728
44: 2,653,729
54: 2,653,730
222— 86: 2,653,731
107: 2,653,732
145: 2,653,733
324: 2,653,734
520: 2,653,735
545: 2,653,736
223— 13: 2,653,737
88: 2,653,738

223— 94: 2,653,739
95: 2,653,740
224—42.42: 2,653,741
45: 2,653,742
226— 2: 2,653,743
43: 2,653,744
81: 2,653,745
125: 2,653,746
120: 2,653,747
229— 28: 2,653,749
2,653,750
53: 2,653,751
56: 2,653,752
230— 10: 2,653,753
114: 2,653,754
134: 2,653,755
175: 2,653,756
274: 2,653,757
232— 1: 2,653,758
7: 2,653,759
8: 2,653,760
235— 61: 2,653,761
63: 2,653,762
2,653,763
2,653,765
136: 2,653,766
236— 1: 2,653,767
80: 2,653,768
240— 2.1: 2,654,019
51.11: 2,654,021
52.15: 2,654,022
241— 137: 2,653,769
162: 2,653,770
242— 4: 2,653,771
9: 2,653,772
25: 2,653,773
43.3: 2,653,774
74: 2,653,775
142: 2,653,776
244— 2: 2,653,777
6: 2,653,778
7: 2,653,779
135: 2,653,780

246— 130: 2,654,023
242: 2,654,024
248— 150: 2,653,781
221: 2,653,782
243: 2,653,783
316: 2,653,784
353: 2,653,785
249— 22: 2,653,786
250— 8: 2,654,025
20: 2,654,026
2,654,027
27: 2,654,028
2,654,029
33: 2,654,030
33.65: 2,654,031
36: 2,654,032
2,654,033
40: 2,654,034
251— 5: 2,653,787
31: 2,653,788
63.5: 2,653,789
91: 2,653,790
93: 2,653,791
122: 2,653,792
133: 2,653,793
252— 34.7: 2,653,909
45: 2,653,910
56: 2,653,911
66: 2,653,912
161: 2,653,913
255— 1: 2,653,794
2,653,795
2: 2,653,796
2: 2,653,797
257— 137: 2,653,798
236: 2,653,799
261: 2,653,800
259— 4: 2,653,801
39: 2,653,802
260— 2.3: 2,653,914
2,653,915
2,653,916
2.5: 2,653,917

260— 2.5: 2,653,918
23: 2,653,919
28.5: 2,653,920
31.8: 2,653,948
67.6: 2,653,921
83.7: 2,653,922
91.1: 2,653,923
94.8: 2,653,924
2,653,925
147: 2,653,926
152: 2,653,927
2,653,928
166: 2,653,929
200: 2,653,931
211: 2,653,932
240.5: 2,653,933
249.6: 2,653,934
2,653,935
249.8: 2,653,936
2,653,937
249.9: 2,653,938
253: 2,653,939
288: 2,653,940
289: 2,653,941
294.8: 2,653,942
307: 2,653,946
2,653,947
328: 2,653,949
2,653,950
2,653,951
343.5: 2,653,943
2,653,944
2,653,945
348.5: 2,653,952
362: 2,653,953
380: 2,653,954
397.4: 2,653,955
407: 2,653,956
412.4: 2,653,957
413: 2,653,958
450: 2,653,959
2,653,960
2,653,961

260— 452: 2,653,962
464: 2,653,963
465.1: 2,653,964
465.3: 2,653,965
465.9: 2,653,966
473.5: 2,653,967
482: 2,653,968
486: 2,653,969
513: 2,653,970
518: 2,653,971
581: 2,653,972
543: 2,653,973
560: 2,653,974
561: 2,653,975
564: 2,653,976
570.5: 2,653,977
609: 2,653,978
668: 2,654,979
671: 2,653,980
683.2: 2,653,981
683.4: 2,653,982
261— 30: 2,653,803
51: 2,653,804
62: 2,653,805
262— 26: 2,653,806
30: 2,653,807
33: 2,653,808
263— 32: 2,653,809
33: 2,653,810
265— 63: 2,653,764
267— 8: 2,653,811
270— 79: 2,653,812
271— 1: 2,653,813
2.6: 2,653,814
273— 36: 2,653,815
55: 2,653,816
58: 2,653,817
65: 2,653,818
274— 4: 2,653,819
279— 5: 2,653,820
280—11.28: 2,653,821
33.44: 2,653,823
2,653,824

280—33.44: 2,653,825
33.9: 2,653,822
36: 2,653,826
44: 2,653,827
104: 2,653,828
106: 2,653,829
282— 19: 2,653,830
23: 2,653,831
284— 18: 2,653,832
285— 9: 2,653,833
17: 2,653,834
34: 2,653,835
129: 2,653,836
286—11.14: 2,653,837
287— 90: 2,653,838
119: 2,653,839
128: 2,653,840
290— 17: 2,653,841
37: 2,654,035
38: 2,654,036
292— 200: 2,653,842
337: 2,653,843
294— 118: 2,653,844
296— 61: 2,653,845
298— 1: 2,653,846
23: 2,653,847
299— 83: 2,653,848
302— 68: 2,653,849
310— 194: 2,654,037
249: 2,654,038
288: 2,654,039
312— 47: 2,653,850
230: 2,653,851
232: 2,653,852
313— 69: 2,654,040
80: Re.23,716
93: 2,654,041
109: 2,654,042
185: 2,654,043
197: 2,654,044
346: 2,654,045
314— 82: 2,654,046
315— 3: 2,654,047

315— 11: 2,654,048
21: 2,654,049
27: 2,654,050
317— 22: 2,654,052
23: 2,654,053
65: 2,654,054
112: 2,654,055
2,654,056
137: 2,654,057
220: 2,654,058
235: 2,654,059
246: 2,654,060
318— 18: 2,654,061
20: 2,654,062
321— 16: 2,654,063
324— 10: 2,654,064
24: 2,654,065
51: 2,654,066
57: 2,654,066
61: 2,654,067
108: 2,654,068
151: 2,654,069
155: 2,654,070
326— 28: 2,654,071
66: 2,654,072
330— 37: 2,654,073
70: 2,654,074
108: 2,654,075
2,654,076
147: 2,654,077
263: 2,654,078
340— 81: 2,654,079
174: 2,654,080
213: 2,654,081
257: 2,654,082
343— 8: 2,654,083
6: 2,654,084
2,654,085
108: 2,654,086
346— 23: 2,653,553

CLASSIFICATION OF DESIGNS

D 7— 7: Des. 170,513
D20— 4: Des. 170,509
D21— 1: Des. 170,498
D29—20: Des. 170,507
28: Des. 170,515

D33— 8: Des. 170,497
D34— 2: Des. 170,494
4: Des. 170,502
5: Des. 170,501
Des. 170,503

D34—11: Des. 170,505
D44—26: Des. 170,510
D52— 1: Des. 170,511
Des. 170,514
2: Des. 170,492

D54—16: Des. 170,506
D62— 4: Des. 170,496
D63— 1: Des. 170,512
D74— 1: Des. 170,504
D81— 6: Des. 170,498

D81—10: Des. 170,508
D83— 1: Des. 170,499
Des. 170,500
D87— 3: Des. 170,490
Des. 170,491

D92— 1: Des. 170,496

U. S. GOVERNMENT PRINTING OFFICE: 1953

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE HULTQUIST

No. 5946. Decided April 16, 1953

(203 F.2d 758; 97 USPQ 328)

PATENTABILITY—PARTICULAR SUBJECT MATTER. PREPARING 2-AMINO PYRIMIDINE.

Certain claims to a process of producing 2-amino pyrimidine *Held* properly rejected as unpatentable over similar prior art processes.

APPEAL from Patent Office. Serial No. 4,716.

AFFIRMED.

Ellis S. Middleton (*Robert W. Kell* and *Robert Ames Norton* of counsel) for appellant.

E. L. Reynolds (*J. Schimmel* of counsel) for the Commissioner of Patents.

JOHNSON, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the holding of the Primary Examiner rejecting claims 2 to 5, the only remaining claims in appellant's application for a patent on a "Process of Preparing 2-Aminopyrimidine and Intermediates Therefor."

The appealed claims relate to the second step of an allegedly improved two-step process of making "2-amino pyrimidine," a chemical used commercially in the synthesis of "2-sulfanilamido pyrimidine," one of the sulfa drugs. The first step of the process comprises the production of 1,1,3,3-tetraalkoxypropane by a reaction involving the addition of a vinyl alkyl ether with an orthoformate ester. In the second step, the 1,1,3,3-tetraalkoxypropane $[(RO)_2CHCH_2CH(OR)_2]$[1] is then condensed with a salt of guanidine $[(NH_2)_2C(:NH)]$ in a strongly acid medium. Alcohols corresponding to the particular alkoxy groups used are obtained as by-products of the reaction. The two steps may be carried out separately, or in a single reaction medium and a single reaction vessel.

Appealed claims 4 and 5 were rejected by the Examiner as drawn to a non-elected species. That rejection has not been challenged by appellant and is not covered in his reasons of appeal. Hence, that question is not before the court.

Claims 2 and 3 read as follows:

2. A method of producing 2-aminopyrimidine which comprises reacting a 1,1,3,3-tetraalkoxypropane with a guanidine salt in strongly acid medium.

3. A method of producing 2-aminopyrimidine which comprises reacting a 1,1,3,3-tetraethoxypropane with a guanidine salt in strongly acid medium.

Claim 2 is generic to claim 3 in that in the former the reactant is any 1,1,3,3-tetraalkoxypropane, while claim 3 specifically recites the tetraethoxypropane. It appears from appellant's specification that the particular alkoxy group present is not critical, and the essential issue is the same with respect to both claims.

The references relied on by the Patent Office are: Moos et al., 2,375,735, May 8, 1945; Hartmann et al., 2,435,002, Jan. 27, 1948.

The patent to Moos et al. discloses a process for the preparation of 2-amino pyrimidine by condensing an alkoxyacrolein acetal, preferably beta-ethoxyacrolein diethyl acetal

$$[Et_2O—CH=CH—CH(OEt)_2]$$[2]

with a salt of guanidine $[(NH)_2C(:NH)]$ in a strongly acid medium. Moos et al. state that an alcohol is liberated during the condensation, and that since the alcohol does not appear to affect the reaction it is not important that any specific alkoxyacrolein acetal be employed. The reference indicates that the desired 2-aminopyrimidine product is an intermediate for the preparation of 2-sulfanilamido pyrimidine.

The patent to Hartmann et al. discloses a process for preparing sulfonamido derivatives of pyrimidine by reacting benzene-sulphonyl-guanidines containing an amino group, e. g., para-aminobenzene-sulfonylguanidine with compounds having two carbonyl groups united by a methylene radical. Various groups of such compounds containing this dicarbonyl structure are enumerated, as well as specific compounds falling within those groups. Among those compounds listed are 1,3-dialdehydes and their derivatives such as their acetals. Accord-

[1] Wherein R is the symbol for an alkyl radical.

[2] Wherein Et is the symbol for the alkyl radical derived from ethyl alcohol.

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ing to the reference, the reaction may be carried out in the presence of mineral acids.

The Examiner rejected the appealed claims as unpatentable over Hartmann et al. holding that the disclosure therein of acetals 1,3-dialdehydes clearly indicated and contemplated to one skilled in the art the use of the diacetal 1,1,3,3-tetraalkoxypropane used by appellant; that the only difference between the reaction claimed and that of Hartmann was the use of 2-substituted aminopyrimidine instead of 2-aminopyrimidine; and that it would be apparent to those skilled in the art, and not inventive, to use guanidine per se instead of substituted guanidine, if 2-aminopyrimidine was the product desired instead of 2-substituted aminopyrimidine. The Board affirmed the Examiner, explaining in detail why it and the Examiner considered that Hartmann et al.'s reference to acetals contemplated appellant's reactant, 1,1,3,3-tetraalkoxypropane. The Board interpreted the reference to acetals in Hartmann et al. as meaning acetals of the various dicarbonyl compound groups disclosed, including acetals of the 1,3-dialdehydes, and stated:

> • • • The only compounds properly designated acetals of 1,3-dialdehydes would be the dialkoxy and the tetraalkoxy forms. The 1,1,3,3-tetraalkoxy propane referred to in the claims on appeal is a tetraalkoxy acetal of the simplest possible 1,3-dialdehyde, namely, malonyl aldehyde.

The Board also affirmed the Examiner's rejection of the claims as unpatentable over the process disclosed by Moos et al. The Examiner stated that he considered the Moos et al. reference to be "extremely close art" because the process disclosed therein differed from that here claimed only by the use of appellant's 1,1,3,3-tetraalkoxypropane, which is a diacetal, instead of the alkoxyacrolein acetal used by Moos et al.

The process disclosed by Moos et al. appears to us to be identical with that here claimed except for the type of acetal used in the reaction with the guanidine salt. Indeed, appellant apparently concedes this. However, appellant contends that Moos et al. teaches the use of an unsaturated acetal rather than a saturated acetal, with a double bond being required between carbon 1 and carbon 2 of the acetal; that closure of the pyrimidine ring requires a further step when a saturated acetal is used; and that appellant has therefore gone a step beyond the Moos et al. patent so that his process is patentably distinct over that of the reference.

The question is not merely whether appellant's process is different from the Moos et al. process, but whether it is *patentably* different. Novelty and utility alone are not sufficient to impart patentability to a claim. Invention must be present. *In re Haas et al.*, 31 CCPA (Patents) 895, 141 F.2d 122, 60 USPQ 544.

The patent to Moos et al. states that a good yield of 2-amino pyrimidine may be obtained from the condensation of guanidine with an alkoxyacrolein acetal, and appellant does not challenge this. Further, there is no evidence in this case that the use of the particular acetal claimed, 1,1,3,3-tetraalkoxypropane, achieves any unobvious or unexpected superior results. In our opinion, appellant has merely carried forward the teaching of Moos et al. That reference discloses all the essentials of appellant's process, and we think the use of other similar acetals in the same reaction would be a matter of experiment and within the realm of performance of one skilled in the art (particularly in view of Hartmann et al.'s disclosure of the use of acetals in a very similar process for preparing a similar end product). Something beyond the skill of the art is required if invention is to be said to exist. *Dow Chemical Co. v. Coe*, 76 App. D. C. 317, 182 F.2d 577.

In view of the foregoing, we are of the opinion that the appealed claims were properly rejected as unpatentable over the patent to Moos et al. Having reached this conclusion, it is unnecessary for us to further discuss the rejection based on the patent to Hartmann et al.

For the reasons hereinbefore set out, the decision of the Board of Appeals is affirmed.

AFFIRMED.

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946

T. M. 154,846, T. M. 338,114, Standard Oil Co., Inc., Harness oils, etc.; T. M. 155,909; T. M. 155,910, T. M. 338,892, T. M. 347,535, same, Paving asphalts, etc.; T. M. 155,911, same, Furniture polish, paints, etc.; T. M. 156,551, T. M. 160,349, same, Axle greases, brick mold oils, etc.; T. M. 156,552, same, Sewing-machine oils, cable lubricating oils, etc.; T. M. 160,350, same, Floor oil, paints, etc.; T. M. 176,408, T. M. 194,116, T. M. 211,361, T. M. 220,294, T. M. 224,804, T. M. 233,504, T. M. 233,505, T. M. 338,622, T. M. 377,505, same, Refined, semirefined, and unrefined oils; T. M. 227,457, same, Paraffin wax for washing purposes and harness oil; T. M. 227,458, T. M. 258,648, T. M. 370,870, T. M. 376,515, same, Liquid gloss, floor dressing; T. M. 228,002, same, Asphalt and asphalt-brick filler; T. M. 280,830, same, Glass pump globes and lenses thereof; T. M. 282,259, same, Dispensing pumps and parts thereof; T. M. 336,988, same, Floor oils and hydrocarbon solvents for paints and lacquers; T. M. 337,835, same, Petrolatums, etc.; T. M. 377,316, T. M. 354,294, same, Leather oil; T. M. 376,887, same, Anti-freeze compounds, leak stopping and rust preventing compounds; T. M. 355,741, Gilbert & Barker Mfg. Co., Oil burners, etc.; T. M. 226,540, D. B. Smith & Co., Inc., Fly and germ killer and insecticide for use upon cattle, filed June 29, 1953, D. C., S. D. N. Y., Doc. 86/128, *Standard Oil Co. et al. v. Standard Petroleum Corp et al.*

T. M. 155,909. (See T. M. 154,846.)
T. M. 155,910. (See T. M. 154,846.)
T. M. 155,911. (See T. M. 154,846.)
T. M. 156,551. (See T. M. 154,846.)
T. M. 156,552. (See T. M. 154,846.)
T. M. 160,349. (See T. M. 154,846.)
T. M. 160,350. (See T. M. 154,846.)
T. M. 176,408. (See T. M. 154,846.)
T. M. 194,116. (See T. M. 154,846.)
T. M. 211,361. (See T. M. 154,846.)
T. M. 220,294. (See T. M. 154,846.)
T. M. 224,804. (See T. M. 154,846.)
T. M. 226,540. (See T. M. 154,846.)
T. M. 227,457. (See T. M. 154,846.)
T. M. 227,458. (See T. M. 154,846.)
T. M. 228,002. (See T. M. 154,846.)
T. M. 233,504. (See T. M. 154,846.)
T. M. 233,505. (See T. M. 154,846.)
T. M. 258,648. (See T. M. 154,846.)
T. M. 280,830. (See T. M. 154,846.)
T. M. 282,259. (See T. M. 154,846.)
T. M. 336,988. (See T. M. 154,846.)
T. M. 337,835. (See T. M. 154,846.)
T. M. 338,114. (See T. M. 154,846.)
T. M. 338,622. (See T. M. 154,846.)
T. M. 338,892. (See T. M. 154,846.)
T. M. 347,535. (See T. M. 154,846.)
T. M. 354,294. (See T. M. 154,846.)
T. M. 355,741. (See T. M. 154,846.)
T. M. 370,870. (See T. M. 154,846.)
T. M. 376,515. (See T. M. 154,846.)
T. M. 376,887. (See T. M. 154,846.)
T. M. 377,316. (See T. M. 154,846.)
T. M. 377,505. (See T. M. 154,846.)

NOTICES

Adjudicated Patent

(D. C. Md.) Fleischel Reissue Patent No. 23,326, for a device for control and operation by fluid servomotor. Claims 6, 19, 23, 27, and 28 *Held* invalid and not infringed, claims 24, 25, 29, 30, and 31 *Held* not infringed. *Specialty Equipment & Machinery Corporation v. The Zell Motor Car Company et al.*, 113 F. Supp. 161; 97 USPQ 420.

Trade-Mark Drawings

Substitute drawings will not be accepted in trade-mark applications unless required by the Examiner of Trade-Marks or correction of the original drawing would require that the mark be substantially entirely redrawn.

Disclaimers

2,550,790.—*Carl F. Peters*, Chicago, Ill. CYCLOPENTADIENE-VINYL ACETATE POLYMERS. Patent dated July 10, 1951. Disclaimer filed Aug. 28, 1953, by the assignee, *Avery Corporation*.

Hereby enters this disclaimer to claims 1, 2, 4, 5, and 7 of said patent.

2,623,608.—*Herbert J. Hall*, Princeton, N. J. SYSTEM FOR ENERGIZING ELECTRICAL PRECIPITATORS. Patent dated Dec. 30, 1952. Disclaimer filed Aug. 14, 1953, by the assignee, *Research Corporation*.

Hereby enters this disclaimer to claims 1, 2, and 3 of said patent.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

E. I. du Pont de Nemours and Company has placed 415 additional patents on the Register under Schedules XXVII, XXVIII, XXIX, XXX, XXXI, XXXII, XXXIII, XXXIV, and XXXV. The listing of these patents was begun in the *Register* section of the OFFICIAL GAZETTE, Sept. 22, 1953, and is continued in this and succeeding issues of the OFFICIAL GAZETTE. These patents, which are available for licensing on reasonable terms as indicated at the beginning of each schedule, are in addition to more than 5,800 patents registered previously by the Du Pont Company and listed during 1948–1953 in the *Register* sections of the OFFICIAL GAZETTE. The present listing includes Reg. Nos. 51,690 through 51,776:

Inquiries concerning these patents should be addressed to: Patent Division, E. I. du Pont de Nemours and Company, Wilmington 98, Del.

SCHEDULE XXVII (310 patents)—*Continued*

Unrestricted licenses will be granted under these patents.

Pat. 2,243,696. Process for Electrodeposition of Zinc and Anode Therefor. May 27, 1941. Cast zinc-magnesium alloy anode containing 0.01% to 1.0% magnesium, and zinc electrodeposition process employing such anode. Group 34—72.

Pat. 2,249,352. Preparation of P-(N-Primary Aliphatic Amino) Phenols. July 15, 1941. Preparation of p-(N-primary aliphatic amino) phenols by reducing a member of the group consisting of p-nitrophenols and p-nitrosophenols in the presence of an aliphatic aldehyde, containing at least 3 carbon atoms, in an inert solvent. Group 28—89.

Pat. 2,256,483. Synthetic Spongy Material. Sept. 23, 1941. Ethylene polymer in a spongy form. Group 28—89.

Pat. 2,263,379. Process for the Production of Methyl Vinyl Ketone. Nov. 18, 1941. Preparation of methyl vinyl ketone by catalytic hydration of a compound of the formula: CH_2—CCl=CH—CH_2X; X is Cl or OH. Group 28—89.

Pat. 2,265,226. Cast Resins Having Integral Sheen. Dec. 9, 1941. Cast tube of pearlescent material and process of manufacturing. Group 28—83.

Pat. 2,265,939. Azeotropic Distillation. Dec. 9, 1941. Separation of phenol from phenol-cyclohexanone mixture by adding a compound having at least two alcoholic groups and distilling. Group 28—89.

Pat. 2,269,450. N-(Alpha-Beta-Alkenylidene)-Aminophenols. Jan. 13, 1942. Claims N-(alpha-beta-alkenylidene)-aminophenols, e. g., N-crotonal-p-aminophenol. Group 28—89

Pat. 2,270,215. Preparation of N-Alkyl Aminophenols. Jan. 13, 1942. In the preparation of N-alkyl-amino-phenols, the steps of condensing 1 mole of an unsubstituted aliphatic aldehyde with 1 mole of a primary aminophenol and hydrogenating the condensation product so formed as fast as it is formed. Group 28—89.

Pat. 2,275,311. Process for Nuclear Alkylation of Amino Phenols and Product Thereof. Mar. 3, 1942. Process for the nuclear alkylation of amino phenols using acids, e. g. sulfuric acid, phosphoric acid, and hydrofluoric acid, as condensing agents. Group 28—89.

Pat. 2,276,314. Tanning. Mar. 17, 1942. Tanning composition comprising silicic acid sol containing a soluble aluminum compound and an amide; process for preparing such composition and tanning process using it. Group 28—81.

Pat. 2,276,315. Tanning. Mar. 17, 1942. Tanning composition containing a silicic acid sol and a water soluble, organic hydrogen bonding donor compound, and tanning process employing the composition. Group 28—81.

Pat. 2,277,788. Treatment of Textiles and Composition Useful Therefor. Mar. 31, 1942. An aqueous dispersion of an aliphatic hydrocarbon wherein the active dispersing agent is a polyvinyl alcohol derivative having a saponification number in the range of approximately 80 to 245 and having a viscosity of approximately 20 to 40 centipoises in a 4% aqueous solution at 20° C. Group 28—51.

Pat. 2,278,858. Apparatus for the Preparation of Cast Resins. Apr. 7, 1942. Production of tubing by polymerising in a rotating tubular mold. Group 28—83.

Pat. 2,278,973. Vat Dye Preparations. Apr. 7, 1942. Dye pastes and powders of anthraquinone vat dyes are prepared in a uniformly fine, micro-crystalline form by dissolving the dyes in concentrated sulfuric acid, adding a sufficient quantity of a hydrated salt of a metal whose sulfate is water-soluble to the acid solution to precipitate substantially all of the dyes and separating out the micro-crystalline dyes so precipitated. Group 28—12—89.

Pat. 2,280,300. Light Sensitive Photographic Coating and Method of Manufacturing the Same. Apr. 21, 1942. Light sensitive photographic coatings having widely variable gamma which is dependent upon the spectral region of the light to which the coating is exposed, made by the process of distributing through the molten emulsion a sensitising dye in considerably lesser quantities than that required to produce maximum sensitivity. Groups 28—89; 39—12.

Pat. 2,293,782. Preparation of 1-Nitro-2-Methylanthraquinone. Aug. 25, 1942. Purification of 1-nitro 2-methylanthraquinone by treating the crude with alkali and sodium sulfite having a pH of at least 9.5. Group 28—89.

Pat. 2,304,080. Preparation of Alpha Trioxymethylene. Dec. 8, 1942. Preparation of trioxane by heating formaldehyde in aqueous solution with acid catalyst to distill out trioxane, followed by extraction of trioxane from the distillate. Group 28—89.

Pat. 2,304,602. Method for the Production of Sebacic Acid and Methylhexylcarbinol. Dec. 8, 1942. Treatment of ricinoleyl alcohol with caustic potash under heat and pressure. Group 28—89.

Pat. 2,304,637. Resinous Anion Exchange Material. Dec. 8, 1942. Reacting a solid aliphatic acyclic polymer containing halogen with an acyclic ammonia-type nitrogen compound having at least two H atoms on the nitrogen. Group 28—83.

Pat. 2,310,780. Vinyl Esters of Tertiary Carboxylic Acids. Feb. 9, 1943. A polymerizable vinyl ester of an aliphatic monocampholic acid of not more than 12 carbon atoms, e. g., an ester of polyvinyl alcohol having part of the alcoholic hydroxyls esterified with campholic acid. Group 28—89.

Pat. 2,311,189. Purification of Benzene. Feb. 16, 1943. Continuous removal of sulfur compounds from benzene by treatment with $AlCl_3$ and distillation. Group 28—89.

Pat. 2,313,728. Tanning. Mar. 16, 1943. Tanning composition and method employing reaction product of maleic anhydride and a cyclic terpene, and leather so tanned. Group 28—81.

Pat. 2,320,253. Process for the Production of Formaldehyde. May 25, 1943. Mixture of trioxides of tungsten and molybdenum used as catalysts for oxidation of alcohols to aldehydes and ketones, particularly oxidation of methanol to formaldehyde. Group 28—89.

Pat. 2,321,542. Preparation of Alkoxy Alcohols. June 8, 1943. Reaction of aldehyde, monohydric alcohol, and polyhydric alcohol to alkoxy alcohol. Group 28—86.

Pat. 2,321,544. Preparation of Methylol Urea. June 8, 1943. Reaction of concentrated formaldehyde and urea to water soluble methylol urea. Group 28—83.

Pat. 2,321,593. Preparation of Unsymmetrical Acetals. June 15, 1943. Preparation of methoxy methoxy ethanol by reacting ethylene glycol formal with methanol in the presence of H_2SO_4. Group 28—89.

Pat. 2,321,608. Hydrogenation of Alkoxy-Substituted Esters and Products. June 15, 1943. Preparation of glycol ethers by hydrogenating alkyl (alkoxy-methoxy) acetate in presence of copper chromite. Group 28—89.

Pat. 2,321,889. Rubber Coated Ferrous Metal Articles and Process. June 15, 1943. Rubber-lined formaldehyde drums in which a metal primer composition bonds the rubber lining to the steel surfaces. Group 28—89.

Pat. 2,327,333. Drying Process. Aug. 17, 1943. Preparing and drying moist, crystal urea. Group 28—89.

Pat. 2,330,714. Preparation of Thioaniline. Sept. 28, 1943. Thioaniline, diamino-diphenyl sulfide, is prepared by the catalytic hydrogen reduction of 4-amino-4'-nitro-diphenyl sulfide in methanol solution. It is a valuable intermediate for azo dyes. Group 28—12—89.

Pat. 2,333,782. Alpha, Beta-Dicyano Diethyl Ether. Nov. 9, 1943. Dicyano ethers are prepared by reacting cyanhydrins with unsaturated aliphatic nitriles in the presence of an alkaline catalyst (e. g., reacting acrylonitrile with lactonitrile in the presence of an alkaline cyanide). Group 28—89.

Pat. 2,337,825. Process of Preparing an N-Acetyl Aromatic Amine. Dec. 28, 1943. Acetylation of an aromatic amine in the absence of an aqueous medium, the acetic anhydride being present in less than equimolecular quantity. Group 28—89.

Pat. 2,343,089. Treatment of Textiles and Composition Useful Therefor. Feb. 29, 1944. A substantive textile finishing composition comprising a stable aqueous dispersion of a polymerised vinylidene compound containing partially saponified polyvinyl esters, water soluble methyl celluloses or the water soluble ethylene oxide reaction product of oleyl alcohol, and containing as an agent which renders the dispersed polymerised vinyl compound substantive to textile fibers, a water soluble salt of a multivalent metal. Group 28—51.

Pat. 2,343,090. Treatment of Textiles and Composition Useful Therefor. Feb. 29, 1944. A substantive textile finishing composition adapted for application to textile fibers by a process of exhaustion from a dilute aqueous bath comprising a stable aqueous dispersion of a polymerised vinylidene compound containing as the dispersing agent partially saponified polyvinyl esters, water-soluble methyl celluloses or the water-soluble ethylene oxide reaction product of oleyl alcohol, and containing as an agent which renders the dispersed polymerised vinylidene compound substantive to textile fibers a cationic surface active agent. Group 28—51.

Pat. 2,343,091. Treatment of Textiles and Composition Useful Therefor. Feb. 29, 1944. A textile finishing composition adapted for sising and finishing textile fibers comprising a stable aqueous dispersion of a polymerised vinylidene compound containing a resin which does not contain the vinylidene group, and as the dispersing agent partially saponified polyvinyl esters, water-soluble methyl celluloses or ethylene oxide reaction product of oleyl alcohol. Group 28—51.

Pat. 2,343,092. Treatment of Textiles and Composition Useful Therefor. Feb. 29, 1944. A substantive textile finishing composition adapted for sizing and finishing textile fibers comprising a stable aqueous dispersion of a polymerised vinylidene compound containing a resin which does not contain the vinylidene group, and as the dispersing agent partially saponified polyvinyl esters, water-soluble methyl celluloses or the ethylene oxide reaction product of oleyl alcohol, and containing as an agent which renders the dispersed vinylidene compound and resin substantive to textile fibers, a water-soluble salt of a multivalent metal. Group 28—51.

Pat. 2,343,093. Treatment of Textiles and Composition Useful Therefor. Feb. 29, 1944. A substantive textile finishing composition adapted for application to textile fibers by a process of exhaustion from a dilute aqueous bath comprising a stable aqueous dispersion of a polymerised vinylidene compound containing a resin which does not contain the vinylidene group and containing as the dispersing agent partially saponified polyvinyl esters, water-soluble methyl celluloses or the water-soluble ethylene oxide reaction product of oleyl alcohol and containing as an agent which renders the dispersed polymerised vinylidene compound and resin substantive to textile fibers a cationic surface active agent. Group 28—51.

Pat. 2,343,094. Treatment of Textiles and Composition Useful Therefor. Feb. 29, 1944. A textile fiber finishing composition comprising a stable aqueous dispersion of a polymerised methyl methacrylate containing a relatively small amount of an acetate of deacetylated chitin and containing as the dispersing agent a partially saponified polyvinyl acetate, the amount of the acetate of deacetylated chitin being sufficient to impart to the fiber-finishing composition the property of rendering to textiles a non-chalky, delustered finish. Group 28—51.

Pat. 2,346,124. Bullet Lubrication. Apr. 4, 1944. Bullet lubricated with polyvinyl alcohol and paraffin wax finely dispersed in a fluid medium. Group 28—96.

Pat. 2,346,508. Hydrochlorides of Amino-Azo-Toluenes. Apr. 11, 1944. Amino-azo-toluene is treated with 2%–10% HCl at 80°–100° C. to form a hydrochloride of lower density and higher diazotisation value when it is dried at an elevated temperature and at atmospheric pressure than one formed at a lower temperature and dried. Group 28—89.

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Pat. 2,347,257. Process for Purifying Hydrochloric Acid. Apr. 25, 1944. Process for removing nitrogen oxides from crude hydrochloric acid by treating with a sulfamate. Group 28—89.

Pat. 2,347,447. Preparation of Trioxane. Apr. 25, 1944. Trioxane-water azeotrope boiling at 90°–92° C. and recovery of trioxane from aqueous mixtures with formaldehyde by distillation under such conditions that the distillate comprises essentially a mixture having a boiling point of 90°–92° C. The distillate comprises trioxane, water, and not more than 0.5 part by weight of formaldehyde for each part of trioxane. The trioxane may be extracted with a water-immiscible solvent. Group 28—89.

Pat. 2,351,171. Process for Manufacturing Carbasole. June 13, 1944. Carbasole is prepared by heating a mixture of o-amino-diphenyl and an organic nitro substituted compound, e. g., o-nitro-diphenyl. Group 28—89.

Pat. 2,353,049. Process for Preparing 6-Bs-1-Dibromobenzanthrone. July 4, 1944. Purification of 6-Bs-1-dibromobenzanthrone by extracting an organic solvent suspension of the crude bromination product with sulfuric acid of 78%–88% concentration, filtering the organic solvent-sulfuric acid slurry and hydrolyzing the resulting insoluble reddish-brown crystalline residue with water. Group 28—86.

Pat. 2,358,855. Purification of Camphene. Sept. 26, 1944. Purification of technical camphene by heating it with a surface active catalyst of the group: vermiculite, pyrophyllite, kaolinite, kieselguhr, chrysolite, and asbestos between 225° and 350° C. under superatmospheric pressures to convert the impurities to higher boiling compounds, and separating. Group 28—96.

Pat. 2,365,493. Purification of p-Phenetidine. Dec. 19, 1944. Purification of crude p-phenetidine, obtained by the catalytic hydrogenation of p-nitrophenetole, by heating in a mixture with 1%–10% of solid, finely divided, activated absorbent material at 60°–250° C., filtering, adding 0.1% to 3% of an alkaline sulfide to the filtrate, heating at 85°–125° for several hours and distilling in the presence of H_2S to recover purified p-phenetidine. Group 28—31.

Pat. 2,368,949. Saponification Products of Polyvinyl Esters. Feb. 6, 1945. Purification of water-soluble saponification products of polyvinyl esters by treating an aqueous solution of them with activated charcoal to remove impurities that break emulsions or dispersions. Group 28—89.

Pat. 2,369,471. Compositions Comprising Solid Ethylene Polymers. Feb. 13, 1945. Blending polyethylene with a rubber-like polymer to raise the softening point, increase the notch-bend resistance, etc. Group 28—89.

Pat. 2,370,524. Manufacture of Ortho-Nitro-Anisole. Feb. 27, 1945. Preparation of o-nitro-anisole by heating an alkaline methanol solution of o-nitro-chloro-benzene to which Al or Mg silicate has been added in an amount from 0.1% by weight to an amount less than sufficient to render the mixture non-fluid. Group 28—32—89.

Pat. 2,374,285. Manufacture of Anhydrous Sodium Sulphate. Apr. 24, 1945. Free flowing, non-caking anhydrous sodium sulphate is obtained from salt cake by cooling hot salt cake to a temperature below the Thenardite transition point and adding water to convert to Thenardite while agitating. Group 28—89.

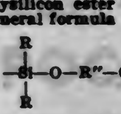
Pat. 2,377,682. Preparation of New Derivatives of Aromatic Amines. June 5, 1945. Process of reacting an aromatic primary amine with a terpene hydrocarbon in the presence of a surface active aluminum or magnesium hydrosilicate. The products are used in making surface active agents and dyes. Group 28—89.

Pat. 2,378,812. Leuco-Monoacyl-1,4-Diaminoanthraquinone and Process for Preparing the Same. June 19, 1945. Preparation of leuco-monoacyl-1,4-diaminoanthraquinone by acylating the stable leuco-1,4-diaminoanthraquinone under conditions which preclude the oxidation of the leuco-1,4-diaminoanthraquinone. Group 28—12—89.

Pat. 2,383,067. Luminescent Cast Synthetic Resin Articles. Aug. 21, 1945. Polymethyl methacrylate and luminescent pigment. Group 28—83.

Pat. 2,383,798. Electroplating. Aug. 28, 1945. Process for electrodeposition of cadmium employing an anti-pit agent containing up to 0.5 gram per liter of sulfonated castor oil; and compositions containing various addition agents and sulfonated castor oil. Group 34—72.

Pat. 2,386,798. Organic Polysilicon Esters. Oct. 16, 1945. A linear polysilicon ester having recurring structural units of the general formula



where R'' is divalent hydrocarbon radical, and R is a monovalent hydrocarbon radical, and process for making such compound. Group 28—89.

Pat. 2,388,148. Taste and Odor Removal From Organic Compounds. Oct. 30, 1945. Stabilising methoxy, methoxy ethanol by preparation in an 18-8 Cr-Ni stainless steel vessel, and in the presence of 0.0002% Cu as $CuSO_4$. Group 28—89.

Pat. 2,388,743. Manufacture of Dibenzanthrone Compounds. Nov. 13, 1945. Dibenzanthrones are made by ring-closing the corresponding 2,2'-dibenzanthronyl compounds in 80% to 90% H_2SO_4 in the presence of an alkali metal nitrite, nitrosyl sulfuric acid, arsenic acid, or arsenic pentoxide at 115° to 140° C. Example: dibromo-2,2'-dibenzanthronyl→dibromodibenzanthrone. Group 28—12—89.

Pat. 2,390,713. Alkylsulphenyl Dithiocarbamates. Dec. 11, 1945. Alkylsulphenyl dialkyl dithiocarbamates and process for manufacture. Group 28—89.

Pat. 2,395,003. Tanning Compositions. Feb. 19, 1946. Tanning composition containing an acid soluble sodium aluminum silicate and an organic carboxylic acid having not more than 8 carbon atoms, or a salt of such acid. Group 28—81.

Pat. 2,395,292. Ethylene-Acetal Reaction Product. Feb. 19, 1946. Preparation of substituted poly dioxolanes by heating ethylene with 1,3-dioxolane and a peroxy compound. Group 28—86.

Pat. 2,395,472. Tanning Compositions and Their Manufacture. Feb. 26, 1946. Composition comprising an organic hydrogen bonding donor compound and a precipitated sodium aluminum silicate. Group 28—81.

Pat. 2,396,097. Sugar Amine Compounds. Mar. 5, 1946. Compounds of the formula: HO—R—CH=N—R'. R—orthodivalent aromatic radical, R'—polyhydroxy aliphatic radical of at least 5 carbon atoms with a hydroxyl on each carbon atom except the one attached to N, e. g., salicylal glucamine. Compounds are useful as metal inhibitors. Group 28—89.

Pat. 2,396,789. Esters. Mar. 19, 1946. Hydroxy alkyl and mercapto alkyl esters of dithiocarbamic acids and process of manufacture. Group 28—89.

Pat. 2,397,960. Food Antioxidants. Apr. 9, 1946. Betamercaptopropionic acids as anti-rancidity agents. Group 28—89.

Pat. 2,397,976. Stabilization of Fats and Oils. Apr. 9, 1946. Thio-di-fatty acids as anti-rancidity agents. Group 20—92.

Pat. 2,398,345. Gas-Scrubbing Apparatus. Apr. 16, 1946. Cascade gas-scrubbing apparatus. Group 35—59.

Pat. 2,399,361. Manufacture of Cyanogen. Apr. 30, 1946. Production of cyanogen by reacting hydrogen cyanide with chlorine or cyanogen chloride. Group 28—89.

Pat. 2,400,724. Preparation of Polyhydroxy Compounds. May 21, 1946. Polymethylol methanes by reacting formaldehyde with an aliphatic aldehyde in the presence of a basic catalyst, and passing hydrogen into the reaction mixture in the presence of a hydrogenation catalyst. Group 28—89.

Pat. 2,401,897. Preparation of Tetrafluoroethylene. June 11, 1946. Production of C_2F_4 from symmetrical $C_2F_4Cl_2$ by enclosing the latter in a container holding zinc and heating to about 100° C. at about 200 pounds gauge pressure. Group 28—89.

Pat. 2,404,779. Process for the Copolymerization of Asymmetrical Dihalogenated Ethylenes. July 30, 1946. Polymerization or interpolymerization of unsymmetrical dichloroethylene in an emulsion process utilizing dispersing agents of the "Gardinol" type; salts of persulfuric acid are present as catalysts. Group 28—89.

Pat. 2,404,817. Production of Copolymers of Monoethenoid Compounds. July 30, 1946. Emulsion polymerization of dihalogenated ethylene and a polymerizable compound containing a single ethylenic double bond conjugated with a multiple bond between dissimilar atoms, in the presence of an acid-stable dispersing agent and an oxygen-yielding polymerization catalyst. Group 28—89.

Pat. 2,405,038. Carburetor Diaphragm. July 30, 1946. A flexible aromatic hydrocarbon resistant coated fabric adapted for use as aircraft carburetor diaphragms comprising a nylon fabric base, a primer coat containing a thermosetting resin and a butadiene-acrylonitrile copolymer and a top coat of a copolymer of butadiene and acrylonitrile. Group 37—22.

Pat. 2,406,127. Process of Fabricating Tape. Aug. 20, 1946. Production of polytetrafluoroethylene tape by heating and quenching tape shaved from a molded cylinder. Group 28—83.

Pat. 2,406,722. Preserving Rubber. Aug. 27, 1946. A rubber antioxidant comprising 1 part of a secondary aromatic amine, e. g., p,p'-dimethoxydiphenylamine, and .00001 to .5 parts of a phthalocyanine consisting of C, H, and N or its Cu, Ag, Sn, Co, Ni, Mg, Zn, or Al complex. Group 28—89.

Pat. 2,406,794. Process of Separating Pyrolysis Products of Chlorodifluoromethane. Sept. 3, 1946. Process of separating pyrolysis products of chlorodifluoromethane by subjecting the mixture to fractional distillation at 50–150 p. s. i. Group 28—89.

Pat. 2,407,405. Stabilization of Tetrafluoroethylene. Sept. 10, 1946. Tetrafluoroethylene stabilized with ethylenically unsaturated hydrocarbon to prevent polymerization at 25° C. and superatmospheric pressure. Group 28—86.

Pat. 2,413,696. Fluorohydrocarbon. Jan. 7, 1947. Compound represented by the formula $C_4F_4H_4$ which has certain specified properties. Group 28—86.

Pat. 2,416,052. Stabilized Soap. Feb. 18, 1947. Soap stabilized against rancidity by means of a substituted mercaptopropionic acid or an ester or salt thereof. Group 28—41.

Pat. 2,420,222. Method of Preparing Fluoro-Chloro Compounds. May 6, 1947. Production of monomeric trifluoromonochloroethylene by heating the polymer having certain specified properties. Group 28—86.

Pat. 2,420,328. Lubricant for Processing Metals. May 13, 1947. An aqueous emulsion of a distillation residue derived from a hydrogenated natural fatty oil by distilling off fractions up through octadecyl alcohol, in which the emulsifying agent is a surface-active water-soluble nonacidic salt of a long-chain alkyl acid-ester of phosphoric acid, the distillation residue being present in a concentration of 1%–70% and the emulsifying agent being present in a minor proportion sufficient to form a stable emulsion. These emulsions are useful for lubricating metals during processing such as cutting and drawing. Group 28—9d.

Pat. 2,420,329. Lubricant for Processing Metals. May 13, 1947. An aqueous emulsion of a distillation residue derived from a hydrogenated natural fatty oil by distilling off fractions up through octadecyl alcohol in which the emulsifying agent is a surface-active water-soluble nonacidic salt of a long chain alkyl acid-ester of phosphoric acid, the distillation residue being present between 1% and 70% and the emulsifying agent being present in a minor proportion sufficient to form a stable emulsion, the emulsion containing tetralin to inhibit foaming. Group 28—96.

Pat. 2,421,315. Chromium Complex of Monazo Pyrazolone. May 27, 1947. Yellow orange chromium complexes of monoazo dyes prepared by coupling the diazo oxide of 3,6-dichloro-2-aminophenol-4-sulfonic acid to a 1-(sulfophenyl, chlorosulfophenyl or methylsulfophenyl)-3-methyl-5-pyrazolone. Group 28—12—89.

Pat. 2,425,029. Chlorine Derivatives of Tri-methyl Acetonitrile. Aug. 5, 1947. Chlorine derivatives of trimethyl acetonitrile and method of making them by passing chlorine into trimethyl acetonitrile at temperature 70°–165° C. in presence of actinic radiation. Group 28—89.

Pat. 2,426,206. Condensation Products of Tri-(Beta-Aminoethyl)-Amine and Ortho Hydroxy Aromatic Carbonyls. Aug. 26, 1947. Compounds of the formula $(HO—A—CZ=N—CHR—CHR'—)_3N$ where R and R'=H or CH_3, Z=H, alkyl, aralkyl or aryl and A=orthodivalent aromatic radical, which are useful as metal deactivators. Group 28—89.

Pat. 2,426,792. Process for Preparing a Mercury Oxide Catalyst. Sept. 2, 1947. Heating charcoal impregnated with a mercury nitrate solution. Group 28—89.

Pat. 2,427,183. Electrical Insulation. Sept. 9, 1947. Process of applying solid polytetrafluoroethylene between layers of siliceous material to make electrical insulation. Groups 28—34; 36—11—31.

Pat. 2,429,876. Catalytic Hydrogenation of Aminoacetonitrile to Ethylene Diamine. Oct. 28, 1947. Continuous preparation of ethylene diamine by subjecting aminoacetonitrile to catalytic hydrogenation conditions for a contact time of not more than seven minutes in the presence of excess ammonia. Group 28—89.

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 29, 1953

[VOL. 674. No. 5]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.
As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 2

RECEPTACLES

Ser. No. 604,992. Shellmar Products Corporation, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York. Filed Oct. 16, 1950.

Tu-Seal

The word "Seal" is disclaimed apart from the mark as shown.
For Merchandise Bags Made of Flexible Sheet Materials.
Claims use since Sept. 15, 1950.

Ser. No. 619,332. Consolidated Commodities, Inc., New York, N. Y. Filed Sept. 28, 1951.

BUDGETTE

For Garment Bags Designed and Intended To Protect Garments Placed Therein From Dust and Dirt and Shoe Bags Designed and Intended To Be a Receptacle for the Storage of Shoes, Which Garment Bags and Shoe Bags Are Made of a Plastic Material.
Claims use since June 1, 1951.

Ser. No. 622,015. Dempster Brothers, Inc., Knoxville, Tenn. Filed Dec. 3, 1951. (Sec. 2f.)

DEMPSTER DUMPSTER

Applicant claims ownership of Registrations Nos. 353,486 and 402,673.
For Storage and Transporting Containers for Use in Carrying and Dumping Materials—Namely, Refuse, Trash, Garbage, Scrap, Dirt, and Rock.
Claims use since Sept. 1, 1936.

Ser. No. 629,577. Marathon Corporation, Rothschild, Wis. Filed May 12, 1952.

TITE Pak

The words "Tite Pak" are disclaimed apart from the mark as shown in the drawing. Applicant claims ownership of Registration No. 413,384.
For Paper Cartons for Packaging Frozen Foods.
Claims use since July 31, 1951.

Ser. No. 631,878. Marathon Corporation, Menasha, Wis. Filed June 27, 1952.

MARATHON Q-board

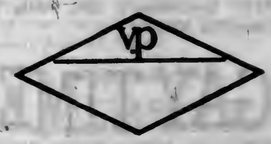
The word "Board" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 416,495 and 531,799.
For Trays Made of Solid-Bleached Paperboard.
Claims use since May 9, 1952.

Ser. No. 635,672. O. B. Andrews Company, Chattanooga, Tenn. Filed Sept. 24, 1952.



Disclaimer is made of the pictorial representation of the goods apart from the mark as shown in the drawing.
For Paperboard Shipping Cases and Folding Cartons.
Claims use since on or about June 1, 1951.

Ser. No. 635,797. Victory Plastics Co., Hudson, Mass. Filed Sept. 25, 1952.



For Plastic Kitchen Appliances—Namely, Knife Rack, Sugar Bowl, Coffee Server, and Ice Bucket.
Claims use since Oct. 26, 1948.

Ser. No. 637,427. Container Corporation of America, Chicago, Ill. Filed Oct. 31, 1952.

VAPOCAN

Applicant claims ownership of Registration No. 401,690.
For Moisture Resistant Paperboard Boxes and Covers Therefor.
Claims use since on or about June 30, 1945.

Ser. No. 637,546. The Padbloc Company, Inc., Wichita, Kans. Filed Nov. 3, 1952.



For Shipping Crates and Boxes Having Preformed Inside Assemblies of Supporting, Spacing, and Padding Members of Fiberboard, and for Inside Assemblies of Supporting, Spacing, and Padding Members of Fiberboard for Shipping Crates and Boxes.
Claims use since on or about Apr. 20, 1951.

Ser. No. 641,488. American Linen Supply Co., sometimes doing business as Steiner Sales Company, Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill. Filed Jan. 29, 1953.



The two pictorial representations of towel dispensing cabinets appearing in the mark are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 563,154.
For Cabinets for Dispensing Cloth or Paper Towels.
Claims use since Nov. 19, 1951.

Ser. No. 643,655. Conklin Products Corporation, Los Angeles, Calif. Filed Mar. 16, 1953.

PERFEGRIP

For Base Holders Made of Plastic for Paper Cups.
Claims use since on or about May 24, 1947.

Ser. No. 644,171. Gleitsman's, Inc., Long Island City, N. Y. Filed Mar. 25, 1953.

GAY TIME

For Hampers.
Claims use since Jan. 5, 1953.

Ser. No. 644,427. Majestic Metal Specialties, Inc., Moosup, Conn. Filed Mar. 30, 1953.

Magicase

For Lady's Unfilled Compact.
Claims use since Nov. 24, 1952.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 605,084. Aristocrat Leather Products, Inc., New York, N. Y. Filed Oct. 18, 1950.

Neoleather

For Wallets or Billfolds and Ladies' Hand Bags, Made Wholly or Partly of Leather.
Claims use since Oct. 16, 1950.

Ser. No. 641,178. Dorian Handbags, New York, N. Y. Filed Jan. 23, 1953.

"Jaillon"

For Handbags.
Claims use since Jan. 8, 1953.

CLASS 5

ADHESIVES

Ser. No. 622,766. B. B. Chemical Co., Boston, Mass. Filed Dec. 22, 1951.

Bosfilm

For Patching Material—Namely, Vinyl Plastic in Sheet Form Coated With Adhesive.
Claims use since July 24, 1951.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 620,093. Dyestuffs and Chemicals, Inc., doing business as The Dykem Company, St. Louis, Mo. Filed Oct. 17, 1951. (Sec. 2f.)

STEEL BLUE

Applicant claims ownership of Registration No. 173,050.
For Liquid Coating for Metal and Through Which the Latter May Be Scribed.
Claims use since about May 1930.

Ser. No. 620,231. Plant Protection Limited, Yalding, Kent, England. Filed Oct. 19, 1951.



No claim is made to the exclusive use of the words "A 'Plant Protection' Product" apart from the mark shown in the drawing. The mark consists of the letters "P P" in Artistic form, suggestive of growing plants, standing in a dark base the lower boundary of which is an arc of a circle, the remainder of which encloses the two letters "P P" and the words "A 'Plant Protection' Product."
For Fungicides, Fumigants for Destroying Vermin and Rodent Pests, Preparations for Preventing the Premature Sprouting of Potatoes, Insecticides, Larvicides, Ovicides, Parasiticides, Preparations for the Destruction of Insects and Fungi on Plants, Seed Dressings, Soil Disinfectants, Insecticidal Preparations in the Form of Adhesive Bands That Are Wrapped Around the Trunks of Fruit Trees To Destroy Insects, Vermin Destroying Preparations, Weed Killing Preparations, Insecticides, Ovicides and Fungicides in Solution Form for Spraying on Trees, Chemical Compositions Used for Mixing With Insecticides and Fungicides To Act as a Diluent, and Soil Disinfectants.
Claims use since October 1945 in Great Britain; and since January 1950 in commerce between Great Britain and the United States.

Ser. No. 625,019. Meyerhans & Cie. A. G. Mühle Weinfelden, Weinfelden, Switzerland. Filed Feb. 15, 1952.

Ypsigum

Priority under Sec. 44(d). Swiss application filed Sept. 8, 1951, Registration No. 139,146, dated Sept. 8, 1951.
For Vegetable Products in the Form of Flakes, Semolina, Flour, and Powder, Pure or in Combination With Other Substances, for Use as a Stock-Thickening, Sizing, Finishing, Stiffening, Emulsifying, and Fixing Agent for Ingredients in Industry Generally.

Ser. No. 639,044. Heyden Chemical Corporation, New York, N. Y. Filed Dec. 5, 1952.

POLYFYDE

Applicant claims ownership of Registrations Nos. 557,336 and 554,027.
For Formaldehyde Polymers.
Claims use since on or about Nov. 3, 1952.

Ser. No. 639,045. Heyden Chemical Corporation, New York, N. Y. Filed Dec. 5, 1952.

PYROFYDE

Applicant claims ownership of Registrations Nos. 557,336 and 554,027.
For Formaldehyde Polymers.
Claims use since on or about Nov. 3, 1952.

Ser. No. 639,046. Heyden Chemical Corporation, New York, N. Y. Filed Dec. 5, 1952.

SUPERFYDE

Applicant claims ownership of Registrations Nos. 557,336 and 554,027.
For Formaldehyde Polymers.
Claims use since on or about Nov. 3, 1952.

Ser. No. 639,047. Heyden Chemical Corporation, New York, N. Y. Filed Dec. 5, 1952.

THERMOFYDE

Applicant claims ownership of Registrations Nos. 557,336 and 554,027.
For Formaldehyde Polymers.
Claims use since on or about Nov. 3, 1952.

Ser. No. 642,324. Ultra Chemical Works, Inc., Paterson, N. J. Filed Feb. 16, 1953.

SULFRAMIN

Applicant claims ownership of Registration No. 384,258.
For Sulfonic Acid.
Claims use since July 1951.

Ser. No. 643,682. Hatco Chemical Company, Township of Kearny, Hudson County, N. J. Filed Mar. 16, 1953.



The trade-mark consists of a monogram made up of the capital letter "H" immediately followed by two occurrences of the capital letter "C" with each of the two of them having sharp corners with one of them appearing above the other and with the lower horizontal arm of the upper one crossing the upright portion of the lower one from the left of it and at an elevation slightly below the upper arm of the lower one of the two of them and with the overall vertical height of the two occurrences of the letter "C" as thus positioned with respect to one another equaling the height of the "H."
For Plasticizers for Use in Plastics, Fatty Acids, and Glycerine.
Claims use since Aug. 16, 1952.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 639,019. H. Comoy & Co., Limited, London, England. Filed Dec. 5, 1952.

Town Hall

For Tobacco Pipes.
Claims use since Jan. 31, 1935, in Great Britain; and first used in commerce between Great Briain and the United States on Jan. 31, 1935.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 638,198. Federal Cartridge Corporation, Minneapolis, Minn. Filed Nov. 17, 1952. (Sec. 2f.)

HI-POWER

Applicant claims ownership of Registrations Nos. 169,923 and 548,328.
For Shotgun Shells, Cartridges for Shotguns, Rifles, Pistols and Revolvers, and Air Rifle Shot.
Claims use since Sept. 1, 1918.

Ser. No. 638,199. Federal Cartridge Corporation, Minneapolis, Minn. Filed Nov. 17, 1952. (Sec. 2f.)



Applicant claims ownership of Registrations Nos. 169,923 and 548,328.

For Shotgun Shells, Cartridges for Shotguns, and Air Rifle Shot.

Claims use since Sept. 1, 1918.

Ser. No. 644,429. The Marlin Firearms Company, New Haven, Conn. Filed Mar. 30, 1953.

MOUNTIE

For Rifles and Parts Thereof.

Claims use since on or about Dec. 24, 1952.

CLASS 10

FERTILIZERS

Ser. No. 645,501. Monsanto Chemical Company, St. Louis, Mo. Filed Apr. 17, 1953.

FOURIUM

For Fertilizer.

Claims use since Apr. 14, 1953.

Ser. No. 645,505. Monsanto Chemical Company, St. Louis, Mo. Filed Apr. 17, 1953.

FORIUM

For Fertilizer.

Claims use since Apr. 14, 1953.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 615,978. Gladding, McBean & Co., Los Angeles, Calif. Filed July 2, 1951. (Sec. 2f.)

MARINE

Applicant claims ownership of Registration No. 289,337.

For Refractory Shapes and Heat Resisting Formed Clay Bodies—Namely, Firebrick, Fire Nozzle Rings, Arch Brick Blocks, Plastic Firebrick, and Refractory or Heat Resisting Fire Clay Mortar Mixes for Use in High Temperature Industrial Furnaces, Incinerators, Combustion Chambers, and Heaters.

Claims use since in or about September 1927.

Ser. No. 641,524. Simpson Logging Company, Seattle, Wash. Filed Jan. 29, 1953.

Simpsonite

Applicant claims ownership of Registration No. 569,675.

For Hardboard, Insulation Board, and Acoustical Tile.

Claims use since Dec. 29, 1952.

CLASS 15

OILS AND GREASES

Ser. No. 647,563. Sun Oil Company, Philadelphia, Pa. Filed May 22, 1953.

MERCURY

Applicant claims ownership of Registrations Nos. 299,511 and 554,444.

For Lubricating Oils.

Claims use since Apr. 15, 1953.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 581,765. Olivier Gaudin, Paris, France. Filed July 11, 1949.

SULFARLEM

Applicant claims ownership of French Registration No. 351,160, dated Mar. 28, 1944.

For Choleretic, Azoturic, and Anti-Allergic Product for the Treatment of Hepatic and Biliary Deficiencies and Their Manifestations.

Ser. No. 610,264. Ethcraft Chemical Company, Jacksonville, Fla. Filed Feb. 19, 1951.

BELTANE

For Medicine, Produced and Sold in Both Elixir and Tablet Form, Which Medicine Is Used as an Antispasmodic and Sedative.

Claims use since Jan. 2, 1951.

Ser. No. 615,040. American Apothecaries Company, Long Island City, N. Y. Filed June 12, 1951.

VITAS-AL

For Multi-Vitamin Capsules.

Claims use since August 1946.

Ser. No. 618,047. Lafayette Pharmacal Inc., Lafayette, Ind. Filed Aug. 24, 1951.

CHOLESTIM

For Gall Bladder Stimulant Used in X-Ray Technology by Hospital Clinical Personnel and the Like in the Detection of Diseases.

Claims use since Feb. 26, 1942.

Ser. No. 623,497. Barnes-Hind Laboratories, San Francisco, Calif. Filed Jan. 12, 1952.

M-I-C

For Vitamin Preparation.

Claims use since June 28, 1949.

Ser. No. 624,247. Ralph J. Sykes, doing business as Sykes Chemical Co., Greensboro, N. C. Filed Jan. 29, 1952.

SYCO-RUB

The word "Rub" is disclaimed apart from the mark as shown on the drawing.

For Preparation for Treatment of Head Colds, Chest Colds, Asthmatic Conditions, Muscular Aches and Sore Throat, Neuritis, and Other Ills.

Claims use since 1916.

Ser. No. 624,870. Afco Sales Corporation, Jersey City, N. J. Filed Feb. 13, 1952.

Korex

For Medicinal Chewing Gum for the Purpose of Relieving Hunger in the Interval Between Regular Meals and Without Supplying Adipose Elements to the Body of the User.

Claims use since Dec. 11, 1951.

Ser. No. 627,149. Royalty Development Corp., Milwaukee, Wis. Filed Mar. 27, 1952.

Milkinol

For Mineral Oil for Medicinal Use.

Claims use since Aug. 8, 1951.

Ser. No. 627,933. Farmcraft Feeds, Inc., Des Moines, Iowa. Filed Apr. 11, 1952.

FARMCRAFT

For Mineral Feed Supplement for Livestock and Poultry.

Claims use since Mar. 10, 1948.

Ser. No. 628,971. Van Slyke & Company, Inc., San Francisco, Calif. Filed Apr. 30, 1952.



The phrase "Veritatis Signum" means "Sign of Truth."

For Pharmaceutical Preparation—Namely, Sodium Salt of Para-Aminosalicylic Acid for Use in Conjunction With an Antibiotic Such as Penicillin for Tuberculosis Therapy.

Claims use since Feb. 6, 1952.

Ser. No. 633,958. Battle Creek Dietetic Co., Battle Creek, Mich. Filed Aug. 15, 1952.

BELVAN

For Multiple Vitamin Capsules.

Claims use since Aug. 23, 1950.

Ser. No. 633,959. Battle Creek Dietetic Co., Battle Creek, Mich. Filed Aug. 15, 1952.

BELVEX

For Fortified Multiple Vitamins and Minerals.

Claims use since July 8, 1952.

Ser. No. 636,321. Winthrop-Stearns Inc., New York, N. Y. Filed Oct. 7, 1952.

RAVOCAINE

Applicant claims ownership of Registrations Nos. 272,952 and 554,781.

For Local and Regional Anesthetic.

Claims use since Sept. 11, 1952.

Ser. No. 638,118. Ilon Chemische Industrie G. m. b. H., Freiburg-Littenweiler (Breisgau), Germany. Filed Sept. 15, 1952.

ILON

Applicant claims ownership of German Registration No. 450,961, dated Dec. 7, 1932.

For Pharmaceutical Products for Treating Coughs, Mouth and Throat Disorders, Headaches, Stomach Disorders, Inflammatory Disorders of Gastric and Hypo-Gastric Organs, Bile Disorders, Inflamed and Pus Bearing Infections of the Skin, and Tissues Under the Skin, Sores, Itching and Running Skin Eruptions, Infected Wounds, Burns Including Sun Burns, Insect Bites, and for Therapeutic Massages.

Ser. No. 642,566. Louis Philippe, Ridgewood, N. J. Filed Feb. 20, 1953.

LANOSTIK

For Medicated Preparation in Stick Form for Parched, Chapped, Wind-Burn and Dry Lips, and Similar Uses.

Claims use since Jan. 21, 1953.

Ser. No. 642,829. Mead Johnson & Company, Evansville, Ind. Filed Feb. 26, 1953.

Fructogen

For Fructose in Solution for Parenteral Administration.
Claims use since Jan. 12, 1953.

Ser. No. 642,899. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Feb. 27, 1953.

Estreptohidrazida

For Antibiotic Derivative.
Claims use since Feb. 17, 1953.

Ser. No. 643,560. G. D. Searle & Co., Skokie, Ill. Filed Mar. 12, 1953.

CALPHYLLIN

Applicant claims ownership of Registration No. 437,660.
For Pharmaceutical—Namely, a Xanthine Preparation Used Principally for the Treatment of Cardiac Disorders.
Claims use since Jan. 15, 1953.

Ser. No. 643,645. Chicago Pharmacal Company, Chicago, Ill. Filed Mar. 16, 1953.

TOLYPHY

Applicant claims ownership of Registration No. 572,513.
For Medicinal Preparation in Tablet Form for Treatment of Spasticity and Parkinson's Disease.
Claims use since Apr. 18, 1952.

Ser. No. 643,790. Purepac Corporation, New York, N. Y. Filed Mar. 17, 1953.

Wunder-skin

No claim is made to the word "Skin" apart from the mark as shown.
For Medicated Skin Cream.
Claims use since Mar. 2, 1953.

Ser. No. 643,805. M. W. Adams Company, doing business under the name of The Adams Co., Philadelphia, Pa. Filed Mar. 18, 1953.

Relaxamine

For Medicinal Preparation for Use in Management of Anxiety and Tension States and To Relax Muscle Spasm, Interrupt Reflex Pain, and Allow Greater Joint Mobility in Neuromuscular and Rheumatic Conditions.
Claims use since June 1952.

Ser. No. 644,092. Amfre Drug Co., Inc., New York, N. Y. Filed Mar. 24, 1953.

AMFRECIN

Applicant claims ownership of Registration No. 389,784.
For Vaginal Douche Powder.
Claims use since January 1951.

Ser. No. 644,197. Smith, Kline & French Laboratories, Philadelphia, Pa. Filed Mar. 25, 1953.

ESKABARB

Applicant claims ownership of Registrations Nos. 433,248, 562,240, and others.
For Sedative Preparation.
Claims use since Nov. 26, 1952.

Ser. No. 644,332. E. S. Miller Laboratories, Inc., Los Angeles, Calif. Filed Mar. 27, 1953.

RASPBERIN

For Antipyretic and Mild Analgesic for Infants and Children.
Claims use since Mar. 2, 1953.

Ser. No. 644,407. Foster-Milburn Co., Buffalo, N. Y. Filed Mar. 30, 1953. (Sec. 2f.)

GENTIA-JEL

Applicant claims ownership of Registration No. 539,481.
For Medicated Jelly for Treatment and Prevention of Infections.
Claims use since Nov. 18, 1947.

Ser. No. 644,481. Y-Z Laboratories, Wilmington, N. C. Filed Mar. 30, 1953.

Y-Z

For Medicinal Preparation Indicated for Treatment of Colds and Headaches Due to Common Colds.
Claims use since Aug. 8, 1952.

Ser. No. 645,494. Mead Johnson & Company, Evansville, Ind. Filed Apr. 17, 1953. (Sec. 2f.)

MEAD

Applicant claims ownership of Registrations Nos. 173,340, 184,697, and others.
For Pharmaceutical Preparations Which Supply Nutritional Needs—Namely, Precooked, Dried Cereal Products Containing Vitamins and Essential Minerals; Specially Prepared Milk Modifier and Dietetic Products Containing Maltose and Dextrins With and Without Added Ascorbic Acid or Potassium Bicarbonate; a Whole Milk Formula With Added Vitamin D, in Fluid Form, for Infants; a High Protein, Low Fat Formula With Added Vitamin D, in Fluid Form, for Infants; Specially Prepared Homogenized and Spray Dried Product for Premature and Newborn Infants Consisting of Skimmed Milk, Maltose, Dextrins, Calcium Caseinate, and Oils; a Calcium Caseinate Preparation Used To Correct Diarrhea and Colic in Infants and To Raise the Protein Content of Food Mixtures; a Mixture of Skim Milk and Whole Milk, Homogenized and Spray Dried, Specially Prepared for Use in Infant Feeding; Powdered Lactic Acid Milks; Powdered Protein Milk Made From Whole Milk Curd and Non-Fat Milk Solids With Added Lactic Acid and Sodium Lactate, Homogenized and Spray Dried, Specially Prepared for Use in Infant Feeding; Hypo-Allergenic Product Composed of a Hydrolysate of Protein, Dextrins, Maltose, and Other Ingredients; Vitamin Preparations Containing Vitamins A, D, C, Thiamine, Riboflavin, and Niacinamide; a Multiple Vitamin Containing Water-Soluble Powder; Vitamin Preparations Containing Vitamins A, D, and C; an Emulsion of Vitamins A, D, C, Thiamine, Riboflavin, and Niacinamide; an Emulsion of Vitamins A, D, and C; Vitamin Preparations Containing Ascorbic Acid; Ascorbic Acid

Tablets; Percomorph Fish Liver Oils, Liquid and Capsules; Cod Liver Oil Fortified With Percomorph Liver Oil; Cod Liver Oil, Standardized; Brewers' Yeast in Powdered and Tablet Form Providing Vitamin B Complex; Mixed Vitamins Capsules; Vitamin and Mineral Capsules; Vitamin, Liver, and Mineral Containing Preparations; a Concentrated Solution of Ferrous Sulphate Used for the Treatment of Iron Deficiency; Preparation Specially Designed for Use in High Protein Low Fat Diets; a Preparation Specially Designed for Use in Diets of Restricted Sodium Content; Dietary Preparation Containing Protein Milk and Banana Powder Designed for the Treatment of Certain Disturbances of Normal Intestinal Function; Products for Parenteral Administration; and a Preparation Containing Essential Food Constituents, Minerals and Vitamins, for Tube and Other Feeding.
Claims use since Oct. 23, 1951, on the mark as shown; and since 1910 on the word "Mead."

Ser. No. 645,495. Mead Johnson & Company, Evansville, Ind. Filed Apr. 17, 1953. (Sec. 2f as to "Mead.")

MEAD

Applicant claims ownership of Registrations Nos. 173,340, 184,697, and others.
For Pharmaceutical Preparations Which Supply Nutritional Needs—Namely, Precooked, Dried Cereal Products Containing Vitamins and Essential Minerals; Specially Prepared Milk Modifier and Dietetic Products Containing Maltose and Dextrins With and Without Added Ascorbic Acid or Potassium Bicarbonate; a Whole Milk Formula With Added Vitamin D, in Fluid Form, for Infants; a High Protein, Low Fat Formula With Added Vitamin D, in Fluid Form, for Infants; Specially Prepared Homogenized and Spray Dried Product for Premature and Newborn Infants Consisting of Skimmed Milk, Maltose, Dextrins, Calcium Caseinate, and Oils; a Calcium Caseinate Preparation Used To Correct Diarrhea and Colic in Infants and To Raise the Protein Content of Food Mixtures; a Mixture of Skim Milk and Whole Milk, Homogenized and Spray Dried, Specially Prepared for Use in Infant Feeding; Powdered Lactic Acid Milks; Powdered Protein Milk Made From Whole Milk Curd and Non-Fat Milk Solids With Added Lactic Acid and Sodium Lactate, Homogenized and Spray Dried, Specially Prepared for Use in Infant Feeding; Hypo-Allergenic Product Composed of a Hydrolysate of Protein, Dextrins, Maltose, and Other Ingredients; Vitamin Preparations Containing Vitamins A, D, C, Thiamine, Riboflavin, and Niacinamide; a Multiple Vitamin Containing Water-Soluble Powder; Vitamin Preparations Containing Vitamins A, D, and C; an Emulsion of Vitamins A, D, C, Thiamine, Riboflavin, and Niacinamide; an Emulsion of Vitamins A, D, and C; Vitamin Preparations Containing Ascorbic Acid; Ascorbic Acid Tablets; Percomorph Fish Liver Oils, Liquid and Capsules; Cod Liver Oil Fortified With Percomorph Liver Oil; Cod Liver Oil, Standardized; Brewers' Yeast in Powdered and Tablet Form Providing Vitamin B Complex; Mixed Vitamins Capsules; Vitamin and Mineral Capsules; Vitamin, Liver, and Mineral Containing Preparations; a Concentrated Solution of Ferrous Sulphate Used for the Treatment of Iron Deficiency; Preparation Specially Designed for Use in High Protein Low Fat Diets; a Preparation Specially Designed for Use in Diets of Restricted Sodium Content; Dietary Preparation Containing Protein Milk and Banana Powder Designed for the Treatment of Certain Disturbances of Normal Intestinal Function; Products for Parenteral Administration; and a Preparation Containing Essential Food Constituents, Minerals and Vitamins, for Tube and Other Feeding.
Claims use since Oct. 23, 1951, on the mark as shown; and since 1910 on the word "Mead."

CLASS 19
VEHICLES

Ser. No. 618,725. Bendix Aviation Corporation, Detroit, Mich. Filed Sept. 13, 1951.

TREADLE-VAC

No claim is made to the term "Treadle" apart from the mark as shown in the drawing.
For Vehicle Brakes.
Claims use since Aug. 14, 1951.

Ser. No. 628,679. Dunelt Cycle Company Limited, Birmingam and Smethwick, Birmingham, England. Filed Apr. 25, 1952.



Applicant disclaims the words "Cycle Co. Ltd." and "Birmingham 40" apart from the mark as shown.
For Pedal Cycles and Motor Cycles and Parts of and Fittings Therefor.
Claims use since 1937; and first used in commerce between foreign nations and the United States in September 1950.

Ser. No. 628,717. The Raynal Cycle Company Limited, Birmingham and Handsworth, Birmingham, England. Filed Apr. 25, 1952.



Applicant disclaims the words "Birmingham" and "Made in England" apart from the mark as shown.
For Pedal Cycles and Motor Cycles and Parts of and Fittings Therefor.
Claims use since July 1950; and first used in commerce between foreign nations and the United States in September 1951.

Ser. No. 633,670. Harris Barrier, Inc., Indianapolis, Ind. Filed Aug. 9, 1952.

HAR-BAR

The term "Bar" is disclaimed apart from the mark as shown.

For Automobile Barrier, and More Particularly a Barrier Engageable With the Wheels of an Automobile for Retaining it in Position Even When on an Incline.

Claims use since Sept. 15, 1949.

Ser. No. 637,516. United Aircraft Corporation, East Hartford, Conn., and Dallas, Tex. Filed Oct. 11, 1952.

CHANCE VOUGHT Cutlass

No claim is made herein to the right to the exclusive use of the representation of the airplane, or to the words "Chance Vought," alone.

For Airplanes and Parts Thereof.

Claims use since Aug. 28, 1952.

Ser. No. 642,970. Highway Trailer Company, Edgerton, Wis. Filed Mar. 2, 1953.

ECONOVAN

For Truck Trailers.

Claims use since Oct. 1, 1952.

Ser. No. 642,971. Highway Trailer Company, Edgerton, Wis. Filed Mar. 2, 1953.

HIGHWAY

Applicant claims ownership of Registrations Nos. 135,262 and 301,285.

For Truck Trailers.

Claims use since Oct. 1, 1952.

Ser. No. 646,099. Alfa Romeo Societa per Azioni, Milan, Italy. Filed Apr. 29, 1953.

DISCO VOLANTE

Priority under Sec. 44(d). Italian application filed Dec. 13, 1952, Registration No. 111,220, dated Apr. 16, 1953. The trade-mark "Disco Volante" means "Flying Saucer" or more literally "Flying Disc," in English.

For Car Bodies, Motor Cars, Motor Cycles, Bicycles, Motor Trucks.

Ser. No. 646,100. Alfa Romeo Societa per Azioni, Milan, Italy. Filed Apr. 29, 1953.



Priority under Sec. 44(d). Italian application filed Dec. 13, 1952, Registration No. 111,210, dated Apr. 16, 1953.

For Car Bodies, Motor Cars, Motor Cycles, Bicycles, Motor Trucks.

Ser. No. 647,196. Keystone Trailer & Equipment Co., Inc., Kansas City, Mo. Filed May 18, 1953.

Market Master

For Truck and Trailer Bodies.

Claims use since Jan. 28, 1953.

Ser. No. 647,666. Terminal Metal Products Corporation, Brooklyn, N. Y. Filed May 25, 1953.

CARTMASTER

Applicant claims ownership of Registration No. 551,117.

For Hand Trucks.

Claims use since May 6, 1953.

Ser. No. 647,969. United States Steel Corporation, Pittsburgh, Pa. Filed May 29, 1953.

USS

Applicant claims ownership of Registrations Nos. 558,443 and 555,138.

For Vehicle Axles and Railway Wheels.

Claims use since 1939.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 632,784. Gould-National Batteries, Inc., St. Paul, Minn. Filed July 19, 1952.

DEEP WELL

For Storage Batteries.

Claims use since May 14, 1952.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 645,329. Angus MacPhee, Vancouver, British Columbia, Canada. Filed Apr. 15, 1953.

CHIN-CHIN

Applicant claims ownership of Canadian Registration No. N. S. 41,987/146, dated June 7, 1952.

For Playing Card Game.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 504,032. Cloth Laying Appliances Corp., Woodside, N. Y. Original filed, act of 1905, June 17, 1946; amended to application under act of 1946, Principal Register, Feb. 10, 1948.

CLA

For Laying and Spreading Machines, Pin Bar Tools Used in Holding Material on a Cutting Table, and Tools Consisting of Metal Slabs Used in Holding Down Material and Keeping Layers of Material in Place, and Marking Apparatus for Making Multiple Copies of Patterns for Clothing Manufacture.

Claims use since 1913.

Ser. No. 606,321. Metalastik Limited, Leicester, England. Filed Jan. 3, 1951.

METALASTIK

For Anti-Vibration and Shock Absorbing Mountings and Supports for Machines, Flexible or Resilient Couplings for Machine Shafts, Shaft and Spindle Bearings for Machines, Oscillation Dampers for Rotatable Parts of Machines, Elastic Clutches and Clutch Centers for Machines.

Claims use since May 1, 1937; and first used in commerce between foreign nations and the United States on May 6, 1937.

Ser. No. 609,534. The Bullard Clark Company, Danielson, Conn. Filed Feb. 2, 1951. (Sec. 2f.)

JACOBS Wire Reinforced

The words "Wire Reinforced" are disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 67,488, 197,807, 332,152, 412,635, 417,089, and 527,590.

For Loom Supplies—Namely, Dobby Cords.

Claims use since Feb. 1, 1929.

Ser. No. 612,427. Wallace & Tiernan Co. Inc., Belleville, N. J., now by merger and change of name Wallace & Tiernan Company, Inc., a corporation of New Jersey. Filed Apr. 9, 1951.

CHLORINET

For Compact Apparatus Comprising Pumping and Driving Means, for Feeding Chemical Solutions in Small Amount, to Water Systems or the Like.

Claims use since Nov. 29, 1950.

Ser. No. 616,877. Simplafind Research and Mfg. Co., Inc., New York, N. Y. Filed July 24, 1951.

Simplafind

For Motorized Card Filing Apparatus, Equipped With Filing Trays, and File Cards, All Sold Together as a Unit.

Claims use since June 29, 1951.

Ser. No. 627,853. The Winsted Edge Tool Works, Winsted, Conn. Filed Apr. 9, 1952. (Sec. 2f.)

WITHERBY



WOODCHUCK

Applicant claims ownership of Registrations Nos. 227,246 and 512,003.

For Chisels, Gouges, and Drawing Knives.

Claims use since Feb. 7, 1952, on the mark as shown; and since 1868 as to "Witherby."

Ser. No. 630,394. The DoAll Company, Des Plaines, Ill. Filed May 28, 1952.

DoALL

Applicant claims ownership of Registrations Nos. 339,329, 390,078, and 394,883.

For Machine Tools—Namely, Band Saws and Sawing Machines, Filing Machines, Combination Sawing and Filing Machines, Milling Machines and Special Milling Machines Known as Duplicators, and Surface Grinders; Parts and Attachments for the Machine Tools Specified—Namely, Circular Saws, Band Saw Blades, Hack Saw Blades, Diamond Blade Bands, File Bands, Line Grinding Bands, Gravity-Feed Type Drip Applicators for Applying Cutting Oil to the Work Zones of the Machine Tools Specified, Variable Speed Pulleys and V-Belts, Grinding Wheels, Cylindrical Grinding Attachments, and Coolant Unit Attachments for the Machine Tools Specified and Whereby a Liquid Lubricant and Coolant Is Fed by Means of a Pump to the Work Zone of the Machine; Pumps of the Gear, Vane, Centrifugal, or Piston Type for All Forms of Gases and Fluids, and Generally Known as Hydraulic Pumps, Air Pumps, and Diaphragm Pumps; Cutting Tools—Namely, Drills, Drill Rods, and Countersinks; and the Following Hand Tools—Namely, Hand Saws, Hand Files, and Hammers.

Claims use since May 1, 1951, on the mark shown; the word "DoAll" was first used on Mar. 1, 1935.

Ser. No. 632,586. Barnes Drill Co., Rockford, Ill. Filed July 16, 1952.

HYDRAM

For Drilling and Boring Machines.
Claims use since Dec. 28, 1933.

Ser. No. 635,832. Hanson-Van Winkle-Munning Company, Matawan, N. J. Filed Sept. 26, 1952.



The mark is composed of the letters "HVWM." Applicant claims ownership of Registration No. 258,325.
For Polishing, Buffing, Cleaning, Pickling, Degreasing, and Washing Machines and Parts Thereof for Industrial Use.
Claims use since on or about Dec. 15, 1927.

Ser. No. 638,012. Pettibone Mulliken Corporation, Chicago, Ill. Filed Nov. 13, 1952.

MAGNARATOR

For Portable Machines for Successively Collecting, Removing Ferrous Metal Scrap From, Screening, Aerating, and Discharging in Stream Form Foundry Molding Sand.
Claims use since Apr. 18, 1952.

Ser. No. 640,259. Carrollton Manufacturing Company, Carrollton, Ohio. Filed Jan. 2, 1953.

HOUR SAVER Food Cutter

The words "Food Cutter" are disclaimed apart from the mark as shown.
For Hand-Operated Food Choppers.
Claims use since Nov. 3, 1952.

Ser. No. 645,192. Dorothy Schneider, doing business as Continental Sales & Sewing Machine Co., Brooklyn, N. Y. Filed Apr. 13, 1953.

JAGUAR

For Electric Sewing Machines.
Claims use since Mar. 9, 1953.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 612,986. American Photocopy Equipment Company, Chicago, Ill. Filed Apr. 23, 1951.

APECO Auto-Stat

No claim is made to exclusive use of the word "Auto" apart from the mark as shown. Applicant claims ownership of Registration No. 398,781.
For Printing and Developing Apparatus for Producing Photocopies.
Claims use since Sept. 11, 1950.

Ser. No. 629,014. General Aniline & Film Corporation, New York and Binghamton, N. Y. Filed May 1, 1952.

VARIDEX

For Light-Sensitive Photographic Paper.
Claims use since Apr. 3, 1952.

Ser. No. 643,478. F. A. I. Fabbrica Addizionatrice Italiana S. P. A., Milan, Italy. Filed Mar. 11, 1953.

TOTALIA

Applicant claims ownership of Italian Registration No. 79,467, dated May 13, 1947.
For Adding Machines, Calculating Machines, Accounting Machines.

Ser. No. 643,712. Thomas W. Prosser, Riverside, Calif. Filed Mar. 16, 1953.

IRROMETER

For Soil Moisture Indicators.
Claims use since Oct. 24, 1951.

Ser. No. 645,277. Weil & Huebener, Washington, D. C. Filed Apr. 14, 1953.

OTROPIC-LUX

For Microscopes.
Claims use since Jan. 31, 1953.

Ser. No. 645,323. Ervin Edwin Kroll, McMinnville, Oreg. Filed Apr. 15, 1953.

KROLLOMETER

For Inclinometers.
Claims use since Feb. 2, 1953.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 625,625. Pitegoff Brothers, Inc., Brooklyn, N. Y. Filed Feb. 27, 1952.

Duotip

For Paint Brushes, Wall Brushes, Stucco Brushes.
Claims use since Mar. 29, 1949.

Ser. No. 649,872. Abraham Dell, Los Angeles, Calif. Filed July 6, 1953.

Kay Dee

For Powder Puffs.
Claims use since Nov. 1, 1950.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 613,644. Jencraft Manufacturing Co., East Paterson, N. J. Filed May 8, 1951.

jencraft

For Venetian Blinds.
Claims use since June 27, 1946.

Ser. No. 626,218. Rich Industries, Inc., Clinton, Iowa. Filed Mar. 10, 1952.

Pen-n-Crib

The words "Pen" and "Crib" are disclaimed apart from the particular form of the mark as used.
For Infants' Furniture To Wit, Infants' Combined Cribs and Play Pens.
Claims use since Feb. 19, 1952.

Ser. No. 631,864. Henniker Crutch Co., Inc., Warner, N. H. Filed June 27, 1952.

HENNIKER

For Furniture, Specifically, Summer Furniture Consisting of Camp Stools, Wood and Canvas Back Rests for Beach Use, Combination Back Rests and Beach Pads, Luggage Stands, Yacht Chairs, Steamer Chairs, Lawn Tables, and Tray Stands.
Claims use since June 1, 1950.

Ser. No. 632,310. New York Rubber Corporation, New York, N. Y. Filed July 9, 1952.

Airubber

Applicant claims ownership of Registrations Nos. 222,911, 223,815, and others.
For Inflatable Mattresses, Cushions, and Pillows.
Claims use since September 1924.

Ser. No. 632,311. New York Rubber Corporation, New York, N. Y. Filed July 9, 1952.

Airubber

Applicant claims ownership of Registrations Nos. 222,911, 223,815, and others.
For Inflatable Mattresses, Cushions, and Pillows.
Claims use since September 1924 on the word "Airubber"; and since 1941 on the mark as shown.

Ser. No. 644,164. Emeco Corporation, Hanover, Pa. Filed Mar. 25, 1953.

PORTILITY

For Folding Aluminum Tables.
Claims use since on or about Feb. 10, 1953.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 644,159. Bennett-Ireland, Inc., Norwich, N. Y. Filed Mar. 25, 1953.

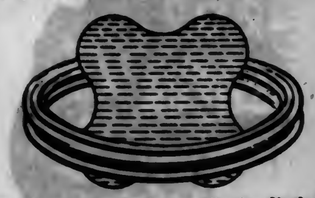
Benefire

For Metal Forms for Guiding the Construction of Internal Details of Fireplaces and To Provide Heating Warm Air Circulating Chambers.
Claims use since Jan. 27, 1953.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 644,562. Minnesota Rubber and Gasket Co., St. Louis Park, Minn. Filed Apr. 1, 1953.



The representation of the goods is disclaimed apart from the mark as a whole. The drawing is lined for the color gray, but no claim is made as to color.
For Seal Rings.
Claims use since Jan. 19, 1953.

Ser. No. 647,573. Davis Specialties Incorporated, Chicago, Ill. Filed May 11, 1953. (Sec. 2f.)

DAVIS

For Flexible Hose Formed at Least in Part of Metal.
Claims use since as early as February 1948.

CLASS 37

PAPER AND STATIONERY

Ser. No. 603,231. Gulf States Paper Corporation, Tuscaloosa, Ala. Filed Sept. 7, 1950. (Sec. 2f.)

ALL AMERICAN

For Wrapping Paper and Butcher's Paper.
Claims use since October 1929.

Ser. No. 630,650. Gregory Fount-O-Ink Company, Los Angeles, Calif. Filed May 9, 1952. (Sec. 2f.)

FOUNT-O-INK

Applicant claims ownership of Registration No. 331,913.
For Pen Points and Writing Sets for Desk Use.
Claims use since Dec. 15, 1934.

Ser. No. 635,701. Hermann Kuhn, Zurich, Switzerland. Filed Sept. 24, 1952.

MIFA

Applicant claims ownership of Swiss Registration No. 142,836, dated June 18, 1952.
For Mechanical Pencils and Pencil-Leads.

Ser. No. 635,898. British Pens Limited, Smethwick, Birmingham, England. Filed Sept. 29, 1952.



Lines are used in the drawing to indicate shading where required. Applicant claims ownership of British Registration No. 550,505, dated Apr. 19, 1934.
For Pens and Pencils.

Ser. No. 642,337. American Linen Supply Co., sometimes doing business as Steiner Sales Company, Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill. Filed Feb. 17, 1953.



Applicant claims ownership of Registration No. 563,154.
For Paper Towels.
Claims use since June 2, 1952.

Ser. No. 644,242. Milwaukee Lace Paper Company, Milwaukee, Wis. Filed Mar. 26, 1953.

Crescent

For Paper Doilies and Place Mats.
Claims use since Jan. 27, 1953.

Ser. No. 644,484. Zellerbach Paper Company, San Francisco, Calif. Filed Mar. 30, 1953.

Publisheen

For Coated Paper.
Claims use since June 1948.

Ser. No. 644,619. The Kroger Co., Cincinnati, Ohio. Filed Apr. 2, 1953.

FLEECE

Applicant claims ownership of Registrations Nos. 320,718 and 385,918.
For Paper Cleansing Tissue and Toilet Tissue, Paper Napkins and Towels.
Claims use since Feb. 1, 1934.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 597,319. The Brunswick-Balke-Collender Company, Chicago, Ill. Filed May 12, 1950.



The trade-mark is a composite mark consisting of a cartoon figure and the word "Memo."
For Periodical Publication Column Relating to Sports and Sports Merchandise.
Claims use since Jan. 18, 1950.

Ser. No. 616,852. Friars of The Atonement, Inc., Garrison, N. Y. Filed July 24, 1951.

Graymoor

For Mass Card Folders Containing Religious Pictures and Printed Membership Certificates.
Claims use since March 1914.

Ser. No. 623,994. Norman Sternberg, Newark, N. J. Filed Jan. 23, 1952.

THE CALLING CARD of NORMAN STERNBERG

For Life Insurance Bulletins Issued Monthly for the Use of Life Underwriters.
Claims use since Sept. 2, 1947.

Ser. No. 630,426. Little, Brown and Company (Inc.), Boston, Mass. Filed May 28, 1952.

THE HOUSEHOLD BOOK CLUB

No claim is made to the exclusive use of the term "Book Club" apart from the mark as shown.
For Books.
Claims use since May 7, 1952.

Ser. No. 630,429. Little, Brown and Company (Inc.), Boston, Mass. Filed May 28, 1952.

THE PARENT'S BOOK CLUB

No claim is made to the exclusive use of the term "Book Club" apart from the mark as shown.
For Books.
Claims use since May 7, 1952.

Ser. No. 635,993. Colonel L. Brown, New York, N. Y. Filed Oct. 1, 1952. (Sec. 2f.)

THE PRODUCE BAROMETER

Applicant claims ownership of Registration No. 301,009.
For Periodical.
Claims use since June 1929.

Ser. No. 637,198. Trans-Art Incorporated, New York, N. Y., and Chicago, Ill. Filed Oct. 25, 1952.

TRANS-ART

For Letters, Symbols, Marks, Insignia, and Similar Matter Capable of Conveying Intelligence, Applied by Various Reproducing Processes to Transparent Self-Adhering Sheets Adapted To Be Cut Up for Application of Desired Portions of Said Matter to Various Advertising, Display, and Designatory Media, and Sold as Such.
Claims use since on about Nov. 15, 1951.

Ser. No. 639,166. Good Publishing Company, Fort Worth, Tex. Filed Dec. 8, 1952.

Jive

For True Story Magazine.
Claims use since August 1952.

Ser. No. 640,067. Contact Products, Inc., doing business as Archer Label Company, Pasadena, Calif. Filed Dec. 27, 1952.



Archer

For Printed Labels.
Claims use since on or about Sept. 5, 1947.

Ser. No. 642,024. Elm City Photo Co., doing business as Chris-Cards, New Haven, Conn. Filed Feb. 10, 1953.

CHRIS-CARDS

The word "Cards" is disclaimed apart from the mark as shown.
For Greeting Cards.
Claims use since on or about Oct. 15, 1952.

Ser. No. 644,020. Drake Merchandising Company, Chicago, Ill. Filed Mar. 23, 1953.

Smart Motoring

In this application no registration rights are claimed for the word "Motoring" apart from the mark shown.
For Periodical Published Bi-Monthly.
Claims use since Mar. 4, 1953.

Ser. No. 644,386. World Wool Guide Incorporated, Philadelphia, Pa. Filed Mar. 27, 1953.



The representation of the man shown on the drawing is that of John Preston, a well-known merchant, now deceased.
For Publication Issued Periodically.
Claims use since June 1, 1937.

Ser. No. 644,424. Lifetime Living, Inc., New York, N. Y. Filed Mar. 30, 1953.

Lifetime Living

For Periodical Magazine.
Claims use since August 1951.

Ser. No. 644,840. Lawrence B. Gracey, Newport Beach, Calif. Filed Apr. 7, 1953.

WOMEN IN THE AIR

For Magazines.
Claims use since Mar. 19, 1953.

Ser. No. 645,405. Farm Journal, Inc., Philadelphia, Pa. Filed Apr. 16, 1953.

Farmcast

For Magazine Section.
Claims use since Oct. 13, 1952.

Ser. No. 645,411. Albert Frank-Guenther Law Inc., New York, N. Y. Filed Apr. 16, 1953.

AF-GL Views with Interest...

For House Magazine Published Bimonthly.
Claims use since Mar. 30, 1953.

Ser. No. 645,440. Brooks Taylor, Chicago, Ill. Filed Apr. 16, 1953.

MAN with SKILLET

For Columns and Articles in Newspapers, Magazines, and Pamphlets.
Claims use since Feb. 13, 1953.

Ser. No. 645,517. Tribune Company, Chicago, Ill. Filed Apr. 17, 1953.

Friend in Need

For Title for a Newspaper Column.
Claims use since June 1, 1910.

Ser. No. 645,567. Hall Publishing Company, New York, N. Y. Filed Apr. 20, 1953.

Strike offs

For Column in a Periodical Trade Publication.
Claims use since May 1952.

Ser. No. 645,649. Hydroponic Chemical Company, Inc., Copley, Ohio. Filed Apr. 21, 1953.

HYPOguide

Applicant claims ownership of Registrations Nos. 373,639, 422,367, and 524,897.
For Books and Booklets.
Claims use since Mar. 25, 1953.

Ser. No. 645,736. Simplicity Pattern Co., Inc., New York, N. Y. Filed Apr. 22, 1953.

Modern Miss

Applicant claims ownership of Registrations Nos. 398,784 and 403,836.
For Magazines Appearing From Time To Time.
Claims use since Apr. 1, 1942.

Ser. No. 645,782. Dell Publishing Company, Inc., New York, N. Y. Filed Apr. 23, 1953. (Sec. 2f.)

Screen stories

For Magazine Published Monthly.
Claims use since Apr. 9, 1948.

Ser. No. 646,104. Armstrong Cork Company, Lancaster, Pa. Filed Apr. 29, 1953.

tone

For Magazine Published Quarterly.
Claims use since Apr. 14, 1953.

CLASS 39

CLOTHING

Ser. No. 607,155. Burlington County Shoe Corporation, Mount Holly, N. J. Filed Dec. 1, 1950.



No claim is made to the word "Welt" except in the association shown.
For Shoes and Slippers for Men, Women, and Children.
Claims use since Jan. 1, 1930.

Ser. No. 620,559. Joseph Shoes Inc., Boston, Mass. Filed Oct. 26, 1951.

BIRCH BARKS by Josephs

For Men's and Women's Shoes.
Claims use since Sept. 8, 1951.

Ser. No. 627,926. The Cambridge Rubber Company, Cambridge, Mass., and Taneytown, Md. Filed Apr. 11, 1952.

Ped-Treds

No claim is made to the word "Treds" apart from the mark shown in the drawing.
For Shoes Made of Leather, Rubber, Fabric, and/or Any Combinations Thereof for Men, Women, and Children.
Claims use since Dec. 28, 1951.

Ser. No. 632,465. California Underwear Company, Inc., Dallas, Tex. Filed July 12, 1952.

Gil Queen

For Hosiery for Women and Girls.
Claims use since June 18, 1952.

Ser. No. 633,064. Kessler & Burg, Inc., Greenville, S. C. Filed July 25, 1952.

mac Shore classics

"Mac Shore" is the nickname of the president of applicant whose consent to use and register is of record in the application file. No claim is made to the word "Classics" apart from the mark as shown.
For Blouses, Skirts, Slacks, and Shorts for Women.
Claims use since July 20, 1950.

Ser. No. 633,237. Brevitt Shoes Limited, Leicester, England. Filed June 24, 1952.

BREVITT-AIR

Priority under Sec. 44(d). British application filed June 6, 1952, Registration No. 707,904, dated June 6, 1952. Applicant claims ownership of United States Registration No. 444,470.
For Boots, Shoes, and Slippers for Men, Women, or Children.

Ser. No. 634,907. Marlboro Shirt Company, Inc., Baltimore, Md. Filed Sept. 5, 1952.

Pride of the Tub

The word "Tub" is disclaimed apart from the mark as shown.
For Men's and Boys' Dress and Sport Shirts.
Claims use since June 6, 1952.

Ser. No. 635,259. General Shoe Corporation, Nashville, Tenn. Filed Sept. 15, 1952.

HARDY LEFTIES

For Shoes for the use of Men, Women, and Children Made of Leather, Fabric, and Combinations Thereof.
Claims use since Feb. 1, 1952.

Ser. No. 635,645. H. Freeman & Son, Inc., Philadelphia, Pa. Filed Sept. 23, 1952.

KINGWEAVE

For Men's Suits.
Claims use since Mar. 12, 1946.

Ser. No. 635,735. American Vitos Co., Inc., New York, N. Y. Filed Sept. 25, 1952.

Champs Elysées

For Knitted Sweaters and Berets for Men, Women, Boys, and Girls.
Claims use since July 1, 1952.

Ser. No. 636,670. Adrian Designs for Men, Inc., New York, N. Y. Filed Oct. 16, 1952.

"BEAU and BELL"

For Men's Sportshirts.
Claims use since Sept. 21, 1952.

Ser. No. 637,473. William W. Artzt, New York, N. Y. Filed Nov. 1, 1952.

JAY TEE

Applicant disclaims the word "Tee" apart from the mark as shown.
For T-Shirts, Vests, Cardigans, Undershirts, and Drawers for Men, Women, and Children.
Claims use since on or about Oct. 20, 1952.

Ser. No. 640,019. Wm. A. Taylor, Ltd., New York, N. Y. Filed Dec. 24, 1952.

De Zardo

The trade-mark consists of the notation "De Zardo."

For Men's Neckties and Lounging Beach and Bath Robes, Scarves, Handkerchiefs, Sport Shirts, Jackets, Lounging Jackets, and Dressing Gowns.

Claims use since Dec. 22, 1952.

Ser. No. 642,019. W. B. Coon Company, Rochester, N. Y. Filed Feb. 10, 1953.

ORTHO PLANITORS

The word "Ortho" is disclaimed apart from the mark as shown.

For Children's or Juvenile Shoes Made of Leather and Cloth.

Claims use since Dec. 28, 1952.

Ser. No. 644,218. Callaway Products, Inc., New York, N. Y. Filed Mar. 26, 1953.



For Athletic Clothing—Namely, Men's and Boys' Sweat Shirts, T-Shirts, Soft Ball Jerseys, Football Jerseys, Basket Ball Jerseys, Socks, Gym Pants, Gym Shirts, Basket Ball Pants, Football Pants, and Jackets; and Girls' Gymnasium Suits.

Claims use since Feb. 10, 1953.

Ser. No. 644,589. American Biltrite Rubber Co. Inc., Chelsea, Mass. Filed Apr. 2, 1953.

NUR·O·CEL

For Shoe Soles of Rubber or Rubberlike Composition.

Claims use since on or about Apr. 15, 1952.

Ser. No. 644,842. Hart Schaffner & Marx, Chicago, Ill. Filed Apr. 7, 1953.

Lynaya

For Men's and Boys' Articles of Clothing—Namely, Suits, Coats, Overcoats, Topcoats, Vests, Trousers, Knickerbockers, and Breeches; and Women's and Misses' Articles of Clothing—Namely, Suits, Coats, and Dresses.

Claims use since Jan. 9, 1953.

Ser. No. 645,012. Smart Maid Coat & Suit Corp., New York, N. Y. Filed Apr. 9, 1953.

SMARTFLUFF

For Girls' and Misses' and Women's Coats.

Claims use since Jan. 6, 1953.

Ser. No. 645,245. Harris Raincoat Company, Incorporated, New York, N. Y. Filed Apr. 14, 1953.

Rainbrero

For Water Repellent Hats and Caps for Men, Women, Youths, Misses, and Children.

Claims use since Jan. 26, 1953.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 636,963. T. F. Beckett & Company (Fairistytch) Limited, Glasgow and Ruchill, Glasgow, Scotland. Filed Oct. 22, 1952.

FAIRISTYTCH

Applicant claims ownership of British Registration No. 415,802, dated June 1, 1921.

For Traycloths, Trolley Cloths, Serviettes, Cosy Covers, Teacloths, Supper Cloths, Cheval Sets, Duchess Sets, Luncheon Sets, Handkerchief Cases, Handkerchief Containers (Textile), Nightdress Cases, Nightdress Containers (Textile), Breakfast Sets, Cushion Covers, Arm Rests, Chairbacks, Sofa Backs, Settee Backs, Antimacassars, Table Runners, Round Table Mats or Centres, Picture Panels, and Bedspreads, All Being Stamped for Embroidery Work.

Ser. No. 645,661. Richard G. Ostrander, Yonkers, N. Y. Filed Apr. 21, 1953.

WIGGLY

For Safety Belts for Children for Use in Automobiles.

Claims use since Nov. 1, 1952.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 614,916. Adero Silk Inc., New York, N. Y. Filed June 8, 1951.

yApré

For Woven and Knitted Cotton, Silk, and Rayon Fabrics.

Claims use since May 19, 1951.

Ser. No. 640,610. Carwan Woolen Corporation, New York, N. Y. Filed Jan. 12, 1953.

The Carwan Blanket

Applicant disclaims the word "Blanket" apart from the mark as shown on the drawing. The drawing is lined for the color gold.

For Cashmere Blankets.

Claims use since Sept. 1, 1952.

Ser. No. 641,479. Tobler, Ernst & Traber, Inc., New York, N. Y. Filed Jan. 28, 1953.



The showing of the fabric is disclaimed. The drawing is lined for the color black.

For Woven Fabrics for Industrial and Technical Use—Namely, Fabric for Dry-Sifting and Separating, Filtering, Straining, and Process Printing.

Claims use since May 22, 1950.

Ser. No. 641,480. Tobler, Ernst & Traber, Inc., New York, N. Y. Filed Jan. 28, 1953.

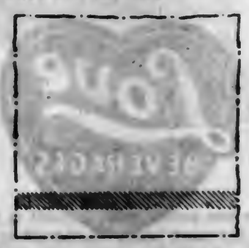


The showing of the fabric is disclaimed. The drawing is lined for the color blue.

For Woven Fabrics for Industrial and Technical Use—Namely, Fabric for Dry-Sifting and Separating, Filtering, Straining, and Process Printing.

Claims use since May 22, 1950.

Ser. No. 641,481. Tobler, Ernst & Traber, Inc., New York, N. Y. Filed Jan. 28, 1953.



The showing of the fabric is disclaimed. The drawing is lined for the color green.

For Woven Fabrics for Industrial and Technical Use—Namely, Fabric for Dry-Sifting and Separating, Filtering, Straining, and Process Printing.

Claims use since May 22, 1950.

Ser. No. 643,131. Gladys Radford Williams, New York, N. Y. Filed Mar. 4, 1953.

ROZGRAPH

For Fabrics Adapted for Use in Making Patterns for Garments or Other Fabric Articles.

Claims use since Jan. 26, 1953.

Ser. No. 645,903. Leeds Associates Inc., New York, N. Y. Filed Apr. 24, 1953.

FIBRETTE

For Woolen Fabrics in the Piece.

Claims use since Apr. 2, 1952.

Ser. No. 645,904. Leeds Associates Inc., New York, N. Y. Filed Apr. 24, 1953.

ICICLE

For Woolen Fabrics in the Piece.

Claims use since Apr. 2, 1952.

Ser. No. 646,164. Plastic Woven Products, Inc., Paterson, N. J. Filed Apr. 29, 1953.

Air-Lite

Applicant disclaims the descriptive word "Lite" apart from the mark as shown on the drawing.

For Plastic Webbing, Woven From Saran Monofilament, Being a Narrow Width Tape Used in the Upholstery of Modern and Outdoor Furniture.

Claims use since June 8, 1950.

Ser. No. 646,518. Burlington Mills Corporation, Greensboro, N. C. Filed May 6, 1953. (Sec. 2f.)

SUTTON STRIPES

Applicant disclaims the exclusive right to the use of the word "Stripes" per se. Applicant claims ownership of Registration No. 304,439.

For Fabrics in the Piece of Synthetic Fibers.

Claims use since Apr. 24, 1932.

Ser. No. 646,538. Lorraine Manufacturing Company, Pawtucket, R. I., and New York, N. Y. Filed May 6, 1953.

GABALORA

Applicant claims ownership of Registration No. 376,944.

For Wool and Worsted Piece Goods.

Claims use since May 25, 1939.

Ser. No. 646,539. Lorraine Manufacturing Company, Pawtucket, R. I., and New York, N. Y. Filed May 6, 1953.

LORALAINE

Applicant claims ownership of Registration No. 419,710.

For Wool and Worsted Piece Goods.

Claims use since July 3, 1944.

Ser. No. 646,560. Lorraine Manufacturing Company, Pawtucket, R. I., and New York, N. Y. Filed May 6, 1953.

TWEEDLORA

Applicant claims ownership of Registration No. 363,801.
For Wool and Worsted Piece Goods.
Claims use since Feb. 13, 1953.

Ser. No. 646,561. Lorraine Manufacturing Company, Pawtucket, R. I., and New York, N. Y. Filed May 6, 1953.

TWILLURE

Applicant claims ownership of Registrations Nos. 363,801 and 373,320.
For Wool and Worsted Piece Goods.
Claims use since Dec. 13, 1938.

CLASS 43

THREAD AND YARN

Ser. No. 630,989. J. & P. Coats, Inc., Wilmington, Del., now by merger Coats & Clark Inc. Filed June 10, 1952. (Sec. 2f.)

"KNIT-CRO-SHEEN"

Applicant claims ownership of Registrations Nos. 175,166, 215,775, and others.
For Thread.
Claims use since on or about May 31, 1934.

Ser. No. 635,824. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Filed Sept. 26, 1952.

Cupresa

Applicant claims ownership of German Registration No. 600,688, dated Aug. 11, 1950.
For Threads and Yarns of Synthetic Fibres.

Ser. No. 636,178. Plabag Aktiengesellschaft für Plastik-Industrie, Romanshorn and Zurich, Switzerland. Filed Oct. 4, 1952.



Applicant claims ownership of Swiss Registration No. 138,024, dated May 1, 1951.
For Threads and Yarns.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 620,572. Don Baxter, Inc., Glendale, Calif. Filed Oct. 29, 1951. CONCURRENT USE with Serial No. 620,585 for the area comprising the States of California, Nevada, Arizona, Oregon, Washington, Idaho, Montana, Utah, New Mexico, Colorado, Wyoming, and the city of El Paso in the State of Texas, and in the Hawaiian Islands and Alaska.

VACOLITER

For Container Dispenser for Intravenous Solutions, Intravenous Tubing, Administration Sets Comprising: Rubber Tubing, Special Clamps to Regulate the Flow Through Said Tubing, and Needles for Administration of Solutions, and Parts Thereof, and Tubing for Conducting Fluids to or From a Container and a Patient.
Claims use since June 22, 1931.

Ser. No. 620,585. Baxter Laboratories, Inc., Morton Grove, Ill. Filed Oct. 29, 1951. CONCURRENT USE with Serial No. 620,572 for the area comprising the District of Columbia, the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Maryland, Delaware, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Tennessee, Kentucky, Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri, Arkansas, Louisiana, North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, and Texas, excepting the city of El Paso in Texas, and including Puerto Rico, the Virgin Islands, and the Canal Zone.

Vacoliter

For Container Dispenser for Parenteral Solutions, Intravenous Tubing, Connector Fittings for Connecting Tubing to the Container, and Tubing for Conducting Fluids to or From a Container and a Patient.
Claims use since January 1933.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 634,185. Dr. Pepper Love Bottling Company, Bartlesville, Okla. Filed Aug. 20, 1952.



No claim is made to the word "Beverages" apart from the mark as shown. Applicant claims ownership of Registration No. 248,553.
For Carbonated, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since on or about Apr. 15, 1928.

Ser. No. 642,452. E. J. Neville, doing business as Mountain City Packing Company, Cairo, Ill. Filed Feb. 18, 1953.

RIDGE POLE

For Apple Cider.
Claims use since June 1, 1948.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 604,139. Bell Brand Foods, Ltd., Vernon, Calif. Filed Sept. 28, 1950.

BELL

Applicant claims ownership of Registration No. 434,791.
For Potato Chips, Deep-Fried Cheese-Flavored Cornmeal Product in Puffed Form, Corn-Chips, French Fried Potatoes, and Peanut Butter.
Claims use since Jan. 6, 1950.

Ser. No. 604,140. Bell Brand Foods, Ltd., Vernon Calif. Filed Sept. 28, 1950.



The drawing is lined for the colors red and blue. The word "Brand" is disclaimed apart from the mark. Applicant claims ownership of Registration No. 434,791.
For Potato Chips, Deep-Fried Cheese-Flavored Cornmeal Product in Puffed Form, Corn Chips, French Fried Potatoes, Peanut Butter.
Claims use since Mar. 2, 1950.

Ser. No. 604,141. Bell Brand Foods, Ltd., Vernon, Calif. Filed Sept. 28, 1950.



The drawing is lined for the colors red and blue. Applicant claims ownership of Registration No. 434,791.
For Potato Chips, Deep-Fried Cheese-Flavored Cornmeal Product in Puffed Form, Corn Chips, French Fried Potatoes, and Peanut Butter.
Claims use since Mar. 2, 1950.

Ser. No. 619,140. Louis L. Libby Food Products, Inc., Long Island City, N. Y. Filed Sept. 22, 1951.



The mark consists of a large letter "L." The drawing is lined for the color red.
For Frozen Precooked French Fried Codfish, Frozen Precooked French Fried Scallops, Frozen Precooked French Fried Shrimp, Frozen Precooked French Fried Onion Rings, Frozen Precooked French Fried Codfish Cakes, Frozen Precooked French Fried Haddock, Frozen Precooked French Fried Smelts, Frozen Precooked French Fried Flounder, Frozen Southern Fried Chicken and Frozen Half Southern Fried Chicken.
Claims use since Dec. 29, 1949.

Ser. No. 623,344. Hershey Chocolate Corporation, Hershey, Pa. Filed Jan. 14, 1952. (Sec. 2f as to "Hershey's.")

HERSHEY'S SEMI-SWEET

No claim is made to "Semi-Sweet" apart from the mark shown. Applicant claims ownership of Registrations Nos. 54,041, 321,030, and others.
For Solid Chocolate Used for Eating, Cooking, and Baking.
Claims use since February 1949 as to the mark shown; and since Jan. 1, 1894, as to the mark "Hershey's."

Ser. No. 629,310. The Miami Margarine Company, Cincinnati, Ohio. Filed May 7, 1952.

delmaid

For Vegetable Shortening.
Claims use since Apr. 15, 1952.

Ser. No. 632,364. Fili De Cecco di Filippo, Abruzzi, Italy. Filed July 10, 1952.



The picture of the woman in the mark is fanciful. Applicant claims ownership of United States Registration No. 295,781.

For Alimentary Pastes.

Claims use since in the year 1887; and use in commerce between foreign nations and the United States in the year 1922.

Ser. No. 635,366. The Larsen Company, Green Bay, Wis. Filed Sept. 17, 1952. (Sec. 2f as to "Layer-Pak.")



No claim is made to the representation of the container or the representation of the vegetables per se. Applicant claims ownership of Registrations Nos. 332,098 and 396,812.

For Canned Mixed Vegetables.

Claims use since June 22, 1937.

Ser. No. 635,440. Squirrel Brand Company, Cambridge, Mass. Filed Sept. 18, 1952.

SQUIRREL

FLORIDAS

Applicant claims ownership of Registrations Nos. 76,187 and 106,081.

For Caramel-Like Candy.

Claims use since May 13, 1952.

Ser. No. 636,269. Clarence A. Beatty, San Francisco, Calif. Filed Oct. 7, 1952.



No claim is made to the word "Chicken" apart from the mark as shown.

For Fried Chicken and Prepared Meals Consisting of Fried Chicken, Soup, Salad, Mashed Potatoes, Biscuits, and Dessert.

Claims use since Sept. 1, 1952.

Ser. No. 639,780. Ronzoni Macaroni Co., Inc., Long Island City, N. Y. Filed Dec. 19, 1952.

RICCINI

The word "Riccini" has no definite meaning but is derived from the Italian word "Riccio" which means hedge hog.

For Macaroni.

Claims use since Dec. 12, 1952.

Ser. No. 640,261. Darmenindustrie H. Vaessen, Deventer, Netherlands. Filed Jan. 2, 1953.

ACCOLINE

For Phosphatic Fat-Binding Agent for Use in the Manufacture of Sausage and Canned Meat Products.

Claims use since June 28, 1951; and was first used in commerce between the United States and the Netherlands on Aug. 22, 1952.

Ser. No. 641,773. Ruth Ann Engler, doing business as Ruth Ann Engler Candy Company, Phoenix, Ariz. Filed Feb. 5, 1953.



Consent from Ella Engler to use and register her name is of record. No claim is made to the words "Made to Order," "Candies," and "Goodness" apart from the mark as shown.

For Candy.

Claims use since September 1952.

Ser. No. 643,547. Edith Harman, Springfield, Mo. Filed Mar. 12, 1953.



The name "Edith Harman's" identifies the applicant. The word "Famous" is disclaimed apart from its association with other features of the mark shown in the drawing.

For Salad Dressing.

Claims use since on or about Feb. 14, 1942.

Ser. No. 645,264 Schwartz Candies Inc., New York, N. Y. Filed Apr. 14, 1953. (Sec. 2f.)

Out of this World

Applicant claims ownership of Registration No. 553,682.

For Candy.

Claims use since May 20, 1940.

Ser. No. 646,364. Alfonso Cavy, doing business as Alfonso Cavy & Co., Chicago, Ill. Filed May 4, 1953.



For Frozen Prepared Food Product Consisting of Shortening, Eggs, Flour, Water, Italian Grated Cheese, Basil, and Black Pepper, all encased in dough.

Claims use since Oct. 1, 1951.

Ser. No. 646,556. The Kroger Co., Cincinnati, Ohio. Filed May 6, 1953.

Embassy

Applicant claims ownership of Registrations Nos. 197,668 and 288,770.

For Apricot Preserves, Strawberry Preserves, Olives, Salad Olives, Salad Dressing, and Salted Peanuts.

Claims use since June 10, 1931.

Ser. No. 647,165. Czarev Milling Co., Independence, Mo. Filed May 18, 1953.



The mark includes the letters "JC" which appear in the crown.

For Granulated Dog Food.

Claims use since Apr. 14, 1953.

Ser. No. 647,242. Swift & Company, Chicago, Ill., doing business as H. L. Handy Company, Springfield, Mass. Filed May 18, 1953. (Sec. 2f.)

LENOX

For Smoked Ham, Bacon, Frankfurts, Polish Sausage, Head Cheese, and Smoked Liver Sausage.

Claims use since about 1924.

Ser. No. 647,976. Davis Bros. Fisheries Co. Inc., doing business as Magellan Company, Gloucester, Mass. Filed May 19, 1953. (Sec. 2f.)

MAGELLAN

The word "Magellan" constituting applicant's trademark primarily connotes the famous Portuguese discoverer now deceased.

For Canned Fish and Packaged Frozen Fish.

Claims use since approximately Oct. 21, 1946.

Ser. No. 649,306. International Milling Company, Minneapolis, Minn. Filed June 24, 1953.



Applicant claims ownership of Registrations Nos. 132,001 and 108,370 and others.

For Wheat Flour.

Claims use since 1882.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 634,535. G. Heileman Brewing Co., La Crosse, Wis. Filed Aug. 27, 1952.



Applicant claims ownership of Registrations Nos. 63,492 and 564,780.
For Beer.
Claims use since 1901.

Ser. No. 641,871. The Stroh Brewery Company, Detroit, Mich. Filed Feb. 6, 1953. (Sec. 2f as to "Stroh's.")



The drawing is lined for the colors red and gold. No exclusive claim is made to the words "Bohemian Style Beer" and "Served Wherever Quality Counts" apart from the mark as shown in the drawing. Applicant claims ownership of Registrations Nos. 70,922, 519,767, and others.
For Beer.
Claims use since June 28, 1950.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 632,587. James B. Beam Distilling Co., Chicago, Ill. Filed July 16, 1952.



The portrait is that of Carl Beam, master distiller, consent of record. No claim is made to the exclusive use of the word "Choice" apart from the mark as shown in the drawing.
For Whiskey.
Claims use since June 9, 1952.

Ser. No. 641,967. Popper Morson Company, New York, N. Y., and Jersey City, N. J. Filed Feb. 9, 1953.



The name "Peter Hagen" is merely fanciful and is not the name of any known individual living or deceased. The word "Grasshopper" is disclaimed separately from the mark. Applicant claims ownership of Registrations Nos. 535,320, 330,969, 387,034, and 517,646.
For Liqueur.
Claims use since Sept. 9, 1952.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 614,631. Helena Rubinstein, Inc., New York, N. Y. Filed June 1, 1951.



Applicant disclaims the word "Liquid" apart from the mark as a whole.
For Face Lotion and Body Lotion With Sunburn Preventive Properties.
Claims use since June 1940.

Ser. No. 637,462. Lena Teverbaugh Ayers Preston, doing business as The Teverbaugh Manufacturing Company, Chicago, Ill. Filed Oct. 31, 1952. (Sec. 2f.)

TEVERBAUGH

Applicant claims ownership of Registration No. 283,754.
For Hair-Pressing Oil.
Claims use since September 1926.

Ser. No. 640,192. Carter Products, Inc., New York, N. Y. Filed Dec. 31, 1952.

ARRID SUPER SPRAY

The words "Super Spray" are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 329,010.
For Personal Deodorant.
Claims use since July 7, 1952.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 627,446. E. F. Houghton & Co., Philadelphia, Pa. Filed Apr. 2, 1952.

VIMSOLV

For Solvents for Sludges and Deposits.
Claims use since Jan. 31, 1952.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 640,352. The National Association for Mental Health, Inc., New York, N. Y. Filed Jan. 5, 1953.



The lining on the drawing is lining forming a part of the mark. All wording is disclaimed apart from the mark as shown.
For Services Relating to the Improvement of Mental Health—Namely, Stimulating and Promoting Interest in Mental Health Problems and Disseminating Information Relative to Mental Health.
Claims use since November 1, 1952.

Ser. No. 640,746. The Liberty Belles Incorporated, New York, N. Y. COLLECTIVE MARK. Filed Jan. 14, 1953.



For Establishment and Maintenance of Membership in a National Patriotic Organization and Furthering the Ideals Thereof.
Claims use since on or about October 1, 1951.

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 638,594. McMillen-Stanley Sales Corporation, San Francisco, Calif. Filed Nov. 25, 1952.



The representation of the man is fanciful.
For Services Comprising Selling for Others Various Goods as Agent.
Claims use since September 1952.

Ser. No. 639,794. Thrifty Stamp Co., Milwaukee, Wis. Filed Dec. 19, 1952.

THRIFTY

For Merchandising Service Rendered to Merchants and Their Customers Involving the Use of Trading Stamps for Inducing the Purchasing Public To Pay Cash.
Claims use since Dec. 2, 1950.

Ser. No. 641,720. Gold Bond Stamp Company, Minneapolis, Minn. Filed Feb. 4, 1953.



Applicant claims ownership of Registration No. 572,435.

For Promoting Sales of Clients' Merchandise Through the Means of Trading Stamps Which Are Redeemable in Merchandise, Cash, or Premiums.

Claims use since on or about February 1, 1948.

Ser. No. 644,715. Belnap & Thompson, Inc., Chicago, Ill. Filed Apr. 6, 1953.

INCENTIVE BANK

For Sales Promotion of Clients' Goods or Services by Establishing an Incentive Program To Increase Clients' Individual Salesmen's Quotas Through the Issuance of Prize Checks to the Salesmen Redeemable in Merchandise Prizes.

Claims use since March 1953.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 634,803. Procon Incorporated, Chicago, Ill. Filed Sept. 3, 1952.

PROCON

The drawing is lined for green.

For Constructing, Altering and Repairing Oil and Chemical Processing Plants.

Claims use since Aug. 4, 1950.

Ser. No. 638,639. Dowell Incorporated, Tulsa, Okla. Filed Nov. 26, 1952.

Sand-frac

The term "Sand" is disclaimed apart from the mark as shown.

For Well Treating Services—Namely, Hydraulic Fracturing of Underground Earth Formations and Propping Open the Resulting Fractures.

Claims use since Oct. 15, 1951.

CLASS 104

COMMUNICATION

Ser. No. 634,859. Radiohio, Incorporated, Columbus, Ohio. Filed Sept. 4, 1952.

"Club 33"

For Radio Program Broadcasting Service.

Claims use since Aug. 4, 1952.

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 641,216. Southwest Airways Company, San Francisco and South San Francisco, Calif. Filed Jan. 23, 1953.

SWA

Applicant claims ownership of Registration No. 513,906.

For Transportation of Cargo and Passengers by Aircraft.

Claims use since May 15, 1952.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 608,118. Phillips H. Lord, Inc., New York, N. Y. Filed Dec. 27, 1950.

We, The People

For Entertainment Through the Media of an Integrated Series of Dramatic Radio and Television Programs Broadcast From Time to Time.

Claims use since on or about Oct. 4, 1936.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1946, PRINCIPAL REGISTER

580,412. Sump Pumps, Coolant Pumps, Vacuum Pumps, Shallow and Deep Well Pumps, and Power Driven Pumps. Vernon R. Rogers, doing business as Rogers Pump Co., Oshkosh, Wis.
Filed Feb. 24, 1948, Serial No. 550,440. Published June 16, 1953. Class 23.

580,413. Wheat Flour. The Colorado Milling & Elevator Co., Denver, Colo., doing business as The Monte Vista Flour Mills Co., Monte Vista, Colo.
Filed May 21, 1948, Serial No. 557,504. CONCURRENT USE. Published June 30, 1953. Class 46.

580,414. Power-Operated Lift Trucks. The Yale & Towne Manufacturing Company, New York, N. Y.
Filed May 22, 1948, Serial No. 557,644. Published July 15, 1952. Class 23.

580,415. Parts for Pyrophoric Cigar and Cigarette Lighters—Namely, Flints, Springs, and Wicks. Charles W. Neyer, doing business as Devil Laboratories Company, Cincinnati, Ohio, assignor to Alice Ruth Neyer, doing business as Devil Laboratories Company, Cincinnati, Ohio.
Filed Aug. 12, 1948, Serial No. 563,274. Published Oct. 2, 1951. Class 8.

580,416. Cigars and Cheroots. The S. Frieder & Sons Company, Cincinnati, Ohio, and Philadelphia, Pa.
Filed Nov. 27, 1948, Serial No. 569,515. Published June 30, 1953. Class 17.

580,417. Polishing Wax in Paste Form for Floors, Furniture, Linoleum, Woodwork, and the Like. Schalk Chemical Company, Los Angeles, Calif.
Filed Dec. 11, 1948, Serial No. 570,384. Published June 23, 1953. Class 4.

580,418. Orange-Flavored, Carbonated, Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks, and Flavoring Therefor. Seminole Flavor Company, Chattanooga, Tenn.
Filed Mar. 29, 1949, Serial No. 576,289. Published June 16, 1953. Class 45.

580,419. Grape-Flavored, Carbonated, Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks, and Flavoring Therefor. Seminole Flavor Company, Chattanooga, Tenn.
Filed Mar. 29, 1949, Serial No. 576,290. Published June 16, 1953. Class 45.

580,420. Farm Machinery — Namely, Automatic Balers, Field Bale Loaders, Corn Shellers, Etc. New Holland Machine Company, New Holland, Pa.
Filed Apr. 20, 1949, Serial No. 577,443. Published Feb. 24, 1953. Class 23.

580,421. Brandy. Standard Food Products Corp., Brooklyn, N. Y.
Filed Aug. 8, 1949, Serial No. 583,176. Published June 16, 1953. Class 49.

580,422. Venetian Blinds. Acmo Venetian Blind Mfg. Co., Inc., Chicago, Ill.
Filed Oct. 21, 1949, Serial No. 586,612. Published June 30, 1953. Class 32.

580,423. Base Paints, Prepared Paints, Lacquers, Varnishes, Anticorrosive Paints, Etc. Oliver Reeder & Son, Incorporated, Baltimore, Md.
Filed Dec. 14, 1949, Serial No. 589,334. Published July 8, 1952. Class 16.

580,424. Medical Preparations for Use in the Treatment of Coughs and Irritations of the Throat and Bronchial Tubes, Etc. Angier Chemical Company, Boston, Mass., assignor, by mesne assignments, to Angier Chemical Co., Inc., Boston, Mass., a corporation of Massachusetts.
Filed Feb. 1, 1950, Serial No. 591,762. Published June 30, 1953. Class 18.

580,425. Bottled Carbonated Soft Drink Beverages. General Bottlers, Inc., Chicago, Ill.
Filed May 10, 1950, Serial No. 597,203. Published June 30, 1953. Class 45.

580,426. Columnar Structures in Particular: Metal Segmented Columns Formed of Can-Like Elements. Alexander J. Ganahl, doing business as Ganahl Company, St. Louis, Mo.
Filed May 19, 1950, Serial No. 597,746. Published June 30, 1953. Class 12.

580,427. Hams. Krey Packing Company, St. Louis, Mo.
Filed May 19, 1950, Serial No. 597,766. Published June 23, 1953. Class 46.

580,428. Toothpaste. Viogen (Australasia) Proprietary Limited, Melbourne, Victoria, Australia.
Filed July 18, 1950, Serial No. 600,869. Published June 23, 1953. Class 51.

580,429. Coin Controlled, Electrically Operated Vending Machines for Vending Liquid Food Products. Chef-Way, Inc., Kansas City, Mo.
Filed Sept. 18, 1950, Serial No. 603,662. Published Feb. 24, 1953. Class 23.

580,430. Coin Controlled, Electrically Operated Vending Machines for Vending Liquid Food Products. Chef-Way, Inc., Kansas City, Mo.
Filed Sept. 18, 1950, Serial No. 603,664. Published Feb. 24, 1953. Class 23.

580,431. Pop-Corn Seasoning Made From Pure Cotton-Seed Oil and Certified Food Colors. Louis Peverada, doing business under the name and style of Salad Queen Food Products, Portland, Maine.
Filed Sept. 23, 1950, Serial No. 603,938. Published June 23, 1953. Class 46.

580,432. Bowl Cleaner and Drain Opener. Wyandotte Chemicals Corporation, Wyandotte, Mich.
Filed Oct. 4, 1950, Serial No. 604,461. Published June 23, 1953. Class 52.

580,433. Hand Sewing Needles—Namely, Darning Needles, Etc. Leo Lammertz, Aachen, Germany.
Priority under Sec. 44(d). German Registration No. 608,611, filed May 8, 1950.
Filed Nov. 2, 1950, Serial No. 606,405. Published June 30, 1953. Class 40.

508,434. Skid Supported Hopper Equipped With a Tiltable Mechanism for Unloading Machine Parts From Containers for Ready Accessibility to Workmen. Honan-Crane Corporation, Lebanon, Ind.
Filed Nov. 17, 1950, Serial No. 606,529. Published June 2, 1953. Class 23.

580,435. Candy. Childs Company, Long Island City, N. Y., assignor to Chunk-E-Nut Products Company of Philadelphia, Inc., Philadelphia, Pa., a corporation of Pennsylvania.
Filed Dec. 1, 1950, Serial No. 607,162. Published Nov. 6, 1951. Class 46.

580,436. Candy. Childs Company, Long Island City, N. Y., assignor to Chunk-E-Nut Products Company of Philadelphia, Inc., Philadelphia, Pa., a corporation of Pennsylvania.
Filed Dec. 1, 1950, Serial No. 607,163. Published Nov. 6, 1951. Class 46.

580,437. Candy. Childs Company, Long Island City, N. Y., assignor to Chunk-E-Nut Products Company of Philadelphia, Inc., Philadelphia, Pa., a corporation of Pennsylvania.
Filed Dec. 1, 1950, Serial No. 607,164. Published Nov. 6, 1951. Class 46.

580,438. Backstands for Use With Buffing, Polishing, and Grinding Equipment, Said Backstands Being Standards Having Pulleys Mounted Thereon and Serving as Idler Pulleys for Tensioning Belts Used for Buffing, Polishing, and Grinding. Divine Brothers Company, Utica, N. Y.
Filed Dec. 20, 1950, Serial No. 607,895. Published Mar. 3, 1953. Class 23.

580,439. Mine Machinery—Namely, Mine Car Feeders and Dumps, Etc. The Nolan Company, Bowerston, Ohio.
Filed Jan. 20, 1951, Serial No. 609,043. Published Mar. 10, 1953. Class 23.

580,440. Machine Tool Positioning Mechanism—Namely, a Metal Bar With Apertures Therein and a Fitted Metal Pin Therefor To Permit Predetermined Operations. De Vlieg Machine Company, Ferndale, Mich.
Filed Jan. 31, 1951, Serial No. 609,437. Published Mar. 3, 1953. Class 23.

580,441. Hand Soap, Face Soap, Toilet Soap, Shampoo, Soap Powders, Household Washing Compounds, Liquid Cleaner for Fabrics. Arkwright, Incorporated, New York, N. Y.
Filed Feb. 9, 1951, Serial No. 609,839. Published June 23, 1953. Class 52.

580,442. Liquid Mineral Feed Supplement for Horses, Hogs, Cattle, Sheep, and Poultry. Viking Laboratories, Inc., Des Moines, Iowa.
Filed Feb. 8, 1951, Serial No. 609,824. Published June 30, 1953. Class 18.

580,443. Perfumes, Colognes for Toilet Purposes, Toilet Cream, Etc. Eau de Colognefabriek J. C. Boldoot N. V., Amsterdam, Netherlands.
Filed Mar. 21, 1951, Serial No. 611,604. Published June 30, 1953. Class 51.

580,444. Perfumes, Colognes for Toilet Purposes, Toilet Cream, Etc. Eau de Colognefabriek J. C. Boldoot N. V., Amsterdam, Netherlands.
Filed Mar. 21, 1951, Serial No. 611,605. Published June 30, 1953. Class 51.

580,445. Antiseptic Emulsion for Protecting and Treating Minor Skin Irritations. Marvin Oppenheim, doing business as Precision Pharmacal, Cleveland Heights, Ohio.
Filed Mar. 30, 1951, Serial No. 612,029. Published June 23, 1953. Class 18.

580,446. Tumbling Machines and Parts Thereof. The Grav-I-Flo Corporation, Sturgis, Mich.
Filed Apr. 6, 1951, Serial No. 612,321. Published June 2, 1953. Class 23.

580,447. Antibiotic Preparation for Intramuscular Injection for Use in the Treatment of Diseases in Human Beings and Animals. The Distillers Company (Biochemicals) Limited, Speke, Liverpool, England.
Filed Apr. 20, 1951, Serial No. 612,898. Published June 23, 1953. Class 18.

580,448. Preparation for Treatment of and Prophylaxis Against Infections Due to Penicillin-Susceptible Organisms. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia.
Filed Apr. 25, 1951, Serial No. 613,146. Published June 23, 1953. Class 18.

580,449. Women's Panties. I. B. Kleinert Rubber Company, New York, N. Y.
Filed May 1, 1951, Serial No. 613,374. Published June 30, 1953. Class 39.

580,450. Extensible Hitches Employed for Coupling a Tractor to a Cargo Transporting Wagon. Harold R. Forney, Surprise, Nebr.
Filed May 4, 1951, Serial No. 613,508. Published June 16, 1953. Class 23.

580,451. Water-Proofing Compositions for Admixture With Concrete, Stucco, Mortar, and Plaster, and Liquid Filler Materials for Porous Masonry and Mortar Joints. Nova Sales Co., Trenton, N. J.
Filed May 9, 1951, Serial No. 613,677. Published June 30, 1953. Class 12.

580,452. School Bags, Beach Bags, Fitted and Unfitted Traveling Bags, and Fitted Toilet Cases. Herz Specialty Products, Inc., Long Island City, N. Y.
Filed May 11, 1951, Serial No. 613,774. Published June 30, 1953. Class 3.

580,453. Wines. The Globe Distributing Company, Washington, D. C.
Filed May 16, 1951, Serial No. 613,911. Published June 16, 1953. Class 47.

580,454. Salted Nuts. Federal Nut Co., Inc., New York, N. Y.
Filed May 18, 1951, Serial No. 614,044. Published June 23, 1953. Class 46.

580,455. Unitary Equipment Consisting of Flocculent Storage Tanks, Etc. Bulkley, Dunton Pulp Company, Inc., New York, N. Y.
Filed May 21, 1951, Serial No. 614,131. Published Mar. 10, 1953. Class 23.

580,456. Wines. Standard Food Products Corp., Brooklyn, N. Y.
Filed June 5, 1951, Serial No. 614,795. Published June 30, 1953. Class 47.

580,457. Rum. Alfred Lamb & Son Limited, London, England.
Filed June 13, 1951, Serial No. 615,124. Published June 16, 1953. Class 49.

580,458. Gin, Anisette, and Brandy, Etc. College Inn Food Products Company, Chicago, Ill.
Filed June 14, 1951, Serial No. 615,158. Published June 16, 1953. Class 49.

580,459. Medicine Cabinets of Metal for Insertion in a Wall, Residential, Commercial, Industrial, and Utility Windows, Etc. Copco Steel & Engineering Company, Detroit, Mich.
Filed June 28, 1951, Serial No. 615,821. Published June 30, 1953. Class 12.

580,460. Asphalt and Asbestos Roof Cements, Asphalt and Asbestos Roof Coatings, Asphalt and Asbestos Foundation Coating, Flashing Cement, and Caulking Compounds. Walter Siodlowski, doing business as Prospect Paint Company, Secaucus, N. J.
Filed June 28, 1951, Serial No. 615,860. Published Dec. 2, 1952. Class 12.

580,461. Aluminum-Alloy Castings. Chemalloy Foundry Company, Louisiana, Mo.
Filed June 6, 1951, Serial No. 615,869. Published June 30, 1953. Class 14.

580,462. Industrial Wheels Made of Metal and Having Solid Rubber Tires Molded Thereon, Said Wheels Adapted for Use on Material Handling Trucks and Dollies, Hand Trucks, Industrial Trailers, and Four-Wheel Platform Trucks. Bronco Rubber Products Co., Los Angeles, Calif.
Filed July 7, 1951, Serial No. 616,199. Published June 30, 1953. Class 19.

580,463. Files. Abrasive Tools Limited, London, England.
Filed July 17, 1951, Serial No. 616,580. Published Mar. 31, 1953. Class 23.

580,464. Pharmaceutical Preparation To Supply Minerals and Vitamins to the Body System. Crestmont Laboratories, Inc., Philadelphia, Pa.
Filed July 17, 1951, Serial No. 616,588. Published June 23, 1953. Class 18.

580,465. Alcoholic Liqueurs. Les Heritiers de Marie Brizard & Roger, Achard, Glotin & Cie, Bordeaux, France.
Filed July 20, 1951, Serial No. 616,718. Published June 30, 1953. Class 49.

580,466. Chucks and Parts Thereof, and Chuck Key and Chuck Adaptor. Supreme Products, Inc., Chicago, Ill.
Filed July 27, 1951, Serial No. 617,065. Published June 16, 1953. Class 23.

580,467. Medical Preparation, in Tablet or Capsule Form for Human Consumption Especially Prepared To Increase the Capacity for Muscular and Mental Work, Etc. Robert Miles Sherman, New York, N. Y.
Filed Aug. 22, 1951, Serial No. 618,073. Published June 23, 1953. Class 18.

580,468. Antibiotic Preparation for the Treatment of Diseases of the Blood Stream and Digestive Tract. Doho Chemical Corporation, New York, N. Y., assignee of Dr. Walter Von Horst.
Filed Aug. 16, 1951, Serial No. 618,520. Published June 30, 1953. Class 18.

580,469. Artificial Flowers and Feathers in the Nature of Trimmings for Clothing or for Millinery Purposes. Flower Fame, New York, N. Y.
Filed Sept. 14, 1951, Serial No. 618,788. Published June 30, 1953. Class 40.

580,470. Safety Purses. Elfrieda M. Ziegenhain, Woodside, N. Y.
Filed Sept. 14, 1951, Serial No. 618,829. Published June 30, 1953. Class 3.

580,471. Cathode-Ray Picture Tubes for Television Receivers. Thomas Electronics, Inc., Passaic, N. J.
Filed Oct. 3, 1951, Serial No. 619,554. Published Apr. 8, 1952. Class 21.

580,472. Sterilizing Detergent for Washing Dishes Having Water Softening Properties. Michael Modrak, Gary, Ind.
Filed Oct. 4, 1951, Serial No. 619,581. Published June 23, 1953. Class 52.

580,473. Tile Having a Square, Rectangular, or Other Configuration and Being Fabricated From Massive Carbon and Graphite of Homogeneous Structure, Said Tile Being Suitable in the Construction of Chemical Equipment. British-American Carbon Corporation, New York, N. Y., now by change of name Delanium Carbon Corporation.
Filed Oct. 17, 1951, Serial No. 620,087. Published Dec. 2, 1952. Class 12.

580,474. Apparatus for Use in the Transfusion of Blood, Etc. Don Baxter, Inc., Glendale, Calif.
Filed Oct. 29, 1951, Serial No. 620,564. CONCURRENT USE. Published June 30, 1953. Class 44.

580,475. Closure-Equipped Bottles for Use in the Transfusion of Blood, Etc. Baxter Laboratories, Inc., Morton Grove, Ill.
Filed Oct. 29, 1951, Serial No. 620,576. CONCURRENT USE. Published June 30, 1953. Class 44.

580,476. Radiators for Internal Combustion Engines. Yates-American Machine Company, Beloit, Wis.
Filed Oct. 30, 1951, Serial No. 620,709. Published June 30, 1953. Class 23.

580,477. Tile Having a Square, Rectangular, or Other Configuration and Being Fabricated From Massive Carbon and Graphite of Homogeneous Structure, Said Tile Being Suitable in the Construction of Chemical Equipment. British-American Carbon Corporation, New York, N. Y., now by change of name Delanium Carbon Corporation.
Filed Nov. 9, 1951, Serial No. 621,051. Published Dec. 2, 1952. Class 12.

580,478. Machine Tools — Namely, Lathes, Capstan Lathes, Turret Lathes, Etc. N. V. Nederlandsche Machinefabriek "Artillerie Inrichtingen," Hembrug, Zaandam, Netherlands.
Filed Nov. 9, 1951, Serial No. 621,062. Published June 2, 1953. Class 23.

580,479. Shallow and Deep Well Reciprocating Pumps, Etc. A. Y. McDonald Mfg. Co., Dubuque, Iowa.
Filed Nov. 15, 1951, Serial No. 621,274. Published June 9, 1953. Class 23.

580,480. Analeptic Tablet. The E. L. Patch Company, Stoneham, Mass.
Filed Nov. 30, 1951, Serial No. 621,899. Published June 23, 1953. Class 18.

580,481. Pre-Coated Metallic Wire and Stripping. Kenmore Metals Corporation, Jersey City, N. J.
Filed Dec. 8, 1951, Serial No. 622,260. Published June 30, 1953. Class 14.

580,482. Tire Buffing Machines and Rims Therefor for Truing Automotive Tires, and Tire Retreading Molds and Presses Used in Conjunction Therewith. Paul B. Hawkinson Company, Minneapolis, Minn.
Filed Dec. 26, 1951, Serial No. 622,824. Published June 2, 1953. Class 23.

580,483. Cotton Padding for Laundry Machinery Rolls. Tingue, Brown & Co., New York, N. Y.
Filed Dec. 27, 1951, Serial No. 622,912. Published June 16, 1953. Class 24.

580,484. Bedroom Suites and Open-Stock Pieces Therefor—Namely, Beds, Chests of Drawers, Etc. Miller and Rhoads, Incorporated, Richmond, Va.
Filed Dec. 10, 1951, Serial No. 623,112. Published June 30, 1953. Class 32.

580,485. Hair Conditioner. Helene Curtis Industries, Inc., Chicago, Ill.
Filed Jan. 9, 1952, Serial No. 623,340. Published June 30, 1953. Class 51.

580,486. Fabric or Fabrics Made of Cotton, Linen, Silk or Synthetic Fibers, Etc. James H. Dunham & Co., New York, N. Y.
Filed Jan. 12, 1952, Serial No. 623,504. Published June 30, 1953. Class 39.

580,487. Perfumes. Maurice Rentner, Inc., New York, N. Y.
Filed Jan. 21, 1952, Serial No. 623,850. Published June 30, 1953. Class 51.

580,488. Figurines and Statuettes Made From Earthenware or Porcelain. Ardalt Inc., New York, N. Y.
Filed Jan. 24, 1952, Serial No. 624,006. Published June 30, 1953. Class 50.

580,489. Ironing Board Pads and Ironing Board Pad Covers. Pressing Supply Company, Philadelphia, Pa.
Filed Feb. 4, 1952, Serial No. 624,499. Published June 30, 1953. Class 24.

580,490. Lawn Seeds and Field Seeds. J. C. Oliger Seed Company, Akron, Ohio.
Filed Feb. 9, 1952, Serial No. 624,754. Published June 23, 1953. Class 1.

580,491. Women's and Children's Blouses. Star Knitting Company, La Crosse, Wis.
Filed Feb. 9, 1952, Serial No. 624,764. Published June 30, 1953. Class 39.

580,492. Roller Mill. Sam S. Johnson, doing business as Johnson Distributing Company, Columbus, Nebr.
Filed Feb. 14, 1952, Serial No. 624,952. Published Mar. 31, 1953. Class 23.

580,493. Luggage Consisting of Suitcases, Over-Night Cases, Wardrobe Cases, Week-End Cases, and Pullman Cases. The Baltimore Luggage Company, Baltimore, Md.
Filed Feb. 15, 1952, Serial No. 624,992. Published June 30, 1953. Class 3.

580,494. Chemically Impregnated Whole Wood Fiber Adapted To Be Molded Into Shaped Articles by the Simultaneous Application of Heat and Pressure. Weyerhaeuser Timber Company, Tacoma, Wash.
Filed Feb. 18, 1952, Serial No. 625,178. Published June 23, 1953. Class 1.

580,495. Plastic Texture Paint Prepared for Use With Water. The Reardon Company, St. Louis, Mo.
Filed Feb. 20, 1952, Serial No. 625,296. Published July 29, 1952. Class 16.

580,496. Medicated Preparation for Human Use in the Treatment of Obesity. The Silf Co. Limited, London, England.
Filed Feb. 20, 1952, Serial No. 625,301. Published June 23, 1953. Class 18.

580,497. Non-Electrical Hair Curlers. Vonett Sales Corporation, doing business as Vonett Sales Company, Los Angeles, Calif.
Filed Feb. 25, 1952, Serial No. 625,505. Published June 30, 1953. Class 40.

580,498. Electric Illumination Control Dimmers and Switchboards Used in Theaters or the Like. Ward Leonard Electric Company, Mount Vernon, N. Y.
Filed Feb. 26, 1952, Serial No. 625,555. Published June 30, 1953. Class 21.

580,499. Hand Cleaning Cream. Abesca Chemical Works, Brooklyn, N. Y.
Filed Mar. 12, 1952, Serial No. 626,295. Published June 23, 1953. Class 52.

580,500. Antibiotic Derivative in Powder Form for Combating Organisms Responsible for Infectious Disease Processes. Bristol Laboratories Inc., New York and Syracuse, N. Y.
Filed Mar. 12, 1952, Serial No. 626,300. Published June 23, 1953. Class 18.

580,501. Antibiotic Derivative in Powder Form for Combating Organisms Responsible for Infectious Disease Processes. Bristol Laboratories Inc., New York and Syracuse, N. Y.
Filed Mar. 12, 1952, Serial No. 626,301. Published June 23, 1953. Class 18.

580,502. Chests of Drawers, Wardrobes, Tables, and Chairs. Thomas Jefferson Memorial Foundation, Incorporated, Charlottesville, Va.
Filed Mar. 12, 1952, Serial No. 626,329. Published June 30, 1953. Class 32.

580,503. Vehicle Mounted Hydraulically Operated Extensible and Adjustable Telescopic Mast, Etc. Capital Industries, Inc., Portland, Oreg.
Filed Mar. 17, 1952, Serial No. 626,559. Published June 9, 1953. Class 23.

580,504. Lumber and Plywood Having at Least One Surface Thereof Treated To Emphasize the Natural Grain. Davidson Plywood and Lumber Co., Los Angeles, Calif.
Filed Mar. 24, 1952, Serial No. 626,934. Published June 23, 1953. Class 12.

580,505. Hectographic Carbon Paper. Block & Anderson Limited, London, England.
Filed Mar. 25, 1952, Serial No. 626,973. Published June 30, 1953. Class 11.

580,506. Germicidal, Deodorant, and Disinfectant Composition for Personal Hygiene and Pharmaceutical Uses. Fairfield Laboratories, Inc., Plainfield, N. J.
Filed Mar. 26, 1952, Serial No. 627,054. Published June 23, 1953. Class 18.

580,507. Bottom Hinged Buckets Adapted To Be Suspended From a Crane Hook, Etc. Pittsburgh Lectromelt Furnace Corporation, Pittsburgh, Pa.
Filed Mar. 28, 1952, Serial No. 627,221. Published June 16, 1953. Class 23.

580,508. Vitamin and Mineral Tablets. S. O. Barnes & Son, Inc., Gardena, Calif.
Filed Mar. 31, 1952, Serial No. 627,314. Published June 23, 1953. Class 18.

580,509. Forage Harvesters, Forage Blowers, Bale Breakers, and Ensilage Cutters. Fox River Tractor Co., Appleton, Wis.
Filed Jan. 17, 1952, Serial No. 627,366. Published June 16, 1953. Class 23.

580,510. Refractory Mixture for Coating Ingot Mould Stools. Mexico Refractories Company, Mexico, Mo.
Filed Apr. 3, 1952, Serial No. 627,519. Published June 23, 1953. Class 12.

580,511. Laundry Machinery — Namely, Washers, Extractors, Presses, Ironers, and Tumblers. American Machine and Metals, Inc., New York, N. Y.
Filed Apr. 7, 1952, Serial No. 627,660. Published June 30, 1953. Class 24.

580,512. Concrete Blocks Used as Insulation for Underground Transmission Pipes. Condu-Block Company, Seattle, Wash.
Filed Apr. 7, 1952, Serial No. 627,676. Published June 23, 1953. Class 12.

580,513. Livestock and Poultry Feed Balancer or Supplement. Farmcraft Feeds, Inc., Des Moines, Iowa.
Filed Apr. 11, 1952, Serial No. 627,934. Published June 23, 1953. Class 18.

580,514. Medicinal Preparation for Control of Human Pigmentation. Paul B. Elder Company, Bryan, Ohio.
Filed Apr. 12, 1952, Serial No. 627,998. Published Mar. 17, 1953. Class 18.

580,515. Checkout Counter With Built-In Motor and Conveyor Belt for Conveying Parcels at the Pay Station in a Self-Service Market or the Like. Modern Village Stores, Inc., El Monte, Calif.
Filed Apr. 12, 1952, Serial No. 628,005. Published June 16, 1953. Class 23.

580,516. Antibiotic Preparation for Topical or Systemic Administration. The Wander Company, doing business under the name Smith-Dorsey, Chicago, Ill.
Filed Apr. 23, 1952, Serial No. 628,591. Published June 23, 1953. Class 18.

580,517. Wines. Societe Vinicole de Pauillac (Societe Anonyme), Pauillac, France.
Filed Apr. 26, 1952, Serial No. 628,783. Published June 16, 1953. Class 47.

580,518. Neoprene Sheet, Plant Fiber Sheet, Neoprene Diaphragm Sheet, and Gum Rubber Sheet. Universal Packing & Gasket Company, Houston, Tex.
Filed Apr. 28, 1952, Serial No. 628,834. Published June 30, 1953. Class 1.

580,519. Manufactured Tobacco—Namely, Cigars, Cigarettes, Smoking Tobacco, and Snuff. P. J. Carroll & Co. Limited, Dundalk, Ireland, and Liverpool, England.
Filed May 2, 1952, Serial No. 629,087. Published June 30, 1953. Class 17.

580,520. Permanent Wave Lotion. John B. Hockensmith, doing business as John's Hair Stylist or Johns Hollywood Beauty Salon, Knoxville, Tenn.
Filed May 2, 1952, Serial No. 629,109. Published June 23, 1953. Class 51.

580,521. Insecticides and Household Deodorants. Henry Carson, Flushing, N. Y.
Filed May 7, 1952, Serial No. 629,284. Published June 16, 1953. Class 6.

580,522. Malt in the Form of Germinated Grain. George J. Meyer Malt and Grain Corporation, Buffalo, N. Y.
Filed May 7, 1952, Serial No. 629,309. Published June 30, 1953. Class 1.

580,523. Lawn Seed Mixture. Crosman Seed Corporation, East Rochester, N. Y.
Filed May 7, 1952, Serial No. 629,291. Published June 30, 1953. Class 1.

580,524. Flexible and Inflexible Abrasives. Behr-Manning Corporation, Troy, N. Y.
Filed May 9, 1952, Serial No. 629,418. Published June 23, 1953. Class 4.

580,525. Expanded Perlite, a Partially Prepared Ore Used in Oil Well Cements. Panacalite Pacific, Inc., Los Angeles, Calif.
Filed May 10, 1952, Serial No. 629,510. Published June 30, 1953. Class 1.

580,526. Expanded Perlite, a Partially Prepared Ore Used as Additives for Oil and Gas Well Drilling Fluids. Panacalite Pacific, Inc., Los Angeles, Calif.
Filed May 10, 1952, Serial No. 629,511. Published June 30, 1953. Class 1.

580,527. Pharmaceutical Ointment. Marcelle Cosmetics, Inc., Chicago, Ill.
Filed May 15, 1952, Serial No. 629,741. Published June 23, 1953. Class 18.

580,528. Refined Irish Moss Extractives Used in Toothpaste, and Refined Red Seaweed Extractives Used as Foam Stabilizers for Tooth Powder, Shampoos, and Cosmetics. Seaplant Chemical Corporation, New Bedford, Mass.
Filed May 21, 1952, Serial No. 630,035. Published June 23, 1953. Class 51.

580,529. Granular Compound Which Removes Grease and Oil From Floors in Garages, Factories, Machine Shops and the Like, by Absorbing the Same. The Denison Manufacturing Company, Asheville, N. C.
Filed May 23, 1952, Serial No. 630,125. Published June 23, 1953. Class 52.

580,530. Granular Compound Which Removes Grease and Oil From Floors in Garages, Factories, Machine Shops and the Like, by Absorbing the Same. The Denison Manufacturing Company, Asheville, N. C.
Filed May 23, 1952, Serial No. 630,126. Published June 23, 1953. Class 52.

580,531. Stainless Steel Flatware—Namely, Knives, Forks, and Spoons for Table Use. The International Silver Company, Meriden, Conn.
Filed May 23, 1952, Serial No. 630,134. Published June 9, 1953. Class 23.

580,532. Vitaminized Mineral Feed Supplements. W. S. Givler, doing business as Givler Products Company, Chicago, Ill.
Filed June 2, 1952, Serial No. 630,595. Published June 23, 1953. Class 18.

580,533. Small Direct Current Electric Motors for Instrument Timing. Hansen Manufacturing Company, Incorporated, Princeton, Ind.
Filed June 4, 1952, Serial No. 630,710. Published July 7, 1953. Class 21.

580,534. Antacid, Sedative, and Anti-Spasmodic Preparation. The Wander Company, Chicago, Ill.
Filed June 4, 1952, Serial No. 630,741. Published June 23, 1953. Class 18.

580,535. Fishing Reels. Shakespeare Company, Kalamazoo, Mich.
Application filed, act of 1946, Supplemental Register, June 11, 1952; amended to application, Principal Register, Apr. 20, 1953, Serial No. 631,069. Published June 30, 1953. Class 22.

580,536. Petroleum Wax Composition Containing Synthetic Rubber Adapted for Use in the Industrial Arts. Moore & Munger, New York, N. Y.
Filed June 14, 1952, Serial No. 631,214. Published May 19, 1953. Class 15.

580,537. Medicated Foot Cream and Lotion for the Treatment or Prevention of Foot Ailments. Larson Laboratories, Inc., Erie, Pa.
Filed June 18, 1952, Serial No. 631,355. Published June 23, 1953. Class 18.

580,538. Cotton Piece Goods. White Brothers, Inc., Winchendon Springs, Mass.
Filed June 24, 1952, Serial No. 631,705. Published June 30, 1953. Class 42.

580,539. Inhaler for Use With Anesthetics. Ayerst, McKenna & Harrison Limited, New York, N. Y.
Filed July 9, 1952, Serial No. 632,284. Published June 30, 1953. Class 44.

580,540. Preparation for Use in the Treatment of Diarrheas, in Ulcerative Colitis, and Bacillary Dysentery, Etc. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia.
Filed July 11, 1952, Serial No. 632,450. Published June 30, 1953. Class 18.

580,541. Grape Juice. Ellena Brothers, Etiwanda, Calif.
Filed July 15, 1952, Serial No. 632,553. Published June 16, 1953. Class 45.

580,542. Display Counters, Self-Service Food Counters, and Combination Display and Self-Service Food Counters. Sherer-Gillett Company, Marshall, Mich.
Filed July 17, 1952, Serial No. 632,696. Published June 30, 1953. Class 32.

580,543. Lubricating Grease. Tide Water Associated Oil Company, New York, N. Y.
Filed July 24, 1952, Serial No. 633,013. Published June 23, 1953. Class 15.

580,544. Locks and Metallic Cabinets for Use as Safes. Fiat Societa per Azioni, Turin, Italy.
Filed July 25, 1952, Serial No. 633,046. Published June 16, 1953. Class 25.

580,545. Scotch Whisky. Benmore Distilleries Limited, Glasgow, Scotland.
Filed July 31, 1952, Serial No. 633,295. Published June 16, 1953. Class 49.

580,546. Articles for Interior Decorating — Namely, Screens for Domestic Divisional Purposes, Window Shades, Etc. Laminated Screens, Inc., New York, N. Y.
Filed July 31, 1952, Serial No. 633,310. Published June 16, 1953. Class 32.

580,547. Paint Brushes. John C. Wells, Lakewood, Ohio.
Filed Aug. 2, 1952, Serial No. 633,440. Published June 30, 1953. Class 29.

580,548. Artificial Bait — Namely, a Spoon. Brainerd Bait Co., St. Paul, Minn.
Filed Aug. 6, 1952, Serial No. 633,529. Published June 30, 1953. Class 22.

580,549. Antibacterial Preparation for the Treatment of Intestinal Conditions. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia.
Filed Aug. 7, 1952, Serial No. 633,592. Published June 23, 1953. Class 18.

580,550. Robes, Housecoats, Pajamas, and Negligees for the Use of Women. Lonshein-Saqqal, Inc., New York, N. Y.
Filed Aug. 13, 1952, Serial No. 633,848. Published June 30, 1953. Class 39.

580,551. Only Corde Yarns To Be Used for Art Needle Work. John Dritz & Sons, New York, N. Y.
Filed Aug. 15, 1952, Serial No. 633,971. Published Feb. 17, 1953. Class 43.

580,552. Hair Tinting and Coloring Preparations. Clairol Incorporated, Stamford, Conn.
Filed Aug. 21, 1952, Serial No. 634,237. Published June 23, 1953. Class 51.

580,553. Woodworking Machinery—Namely, Woodworking Moulders and Accessories or Attachments Therefor, Etc. Dependable Machine Company, Greensboro, N. C.
Filed Aug. 27, 1952, Serial No. 634,524. Published June 16, 1953. Class 23.

580,554. Estrogenic Hormone Cream and Oil and Estrogenic Hormone Hand Lotion, Also Perfume Containers Containing Perfume. Helena Rubinstein, Inc., New York, N. Y.
Filed Aug. 27, 1952, Serial No. 634,549. Published June 23, 1953. Class 51.

580,555. Mobile Power-Operated Grain Loaders. Mayrath Machinery Co., Inc., Dodge City, Kans.
Filed Aug. 28, 1952, Serial No. 634,600. Published June 9, 1953. Class 23.

580,556. Wines. The Madera Bonded Wine and Liquor Company, Baltimore, Md.
Filed Sept. 2, 1952, Serial No. 634,744. Published June 30, 1953. Class 47.

580,557. Solid Lubricant Dispersed in a Fluid Carrier. The AP Parts Corporation, Toledo, Ohio.
Filed Sept. 8, 1952, Serial No. 634,956. Published June 23, 1953. Class 15.

580,558. Metal Plates and Metal Sheets and Metal Tubing Stock. Rheinische Röhrenwerke Aktiengesellschaft, Mulheim an der Ruhr, Germany.
Filed Sept. 16, 1952, Serial No. 635,324. Published June 30, 1953. Class 14.

580,559. Liver Extract, Insulin, Spleen Preparation for the Treatment of Liver Disorders. Joseph H. Isenstead, Canajoharie, N. Y.
Filed Sept. 18, 1952, Serial No. 635,420. Published June 30, 1953. Class 18.

580,560. Pigmented Fused Glass-Like Ceramic Composition for the Making of Porcelain Enamels and the Like. Chicago Vitreous Enamel Product Co., Cicero, Ill.
Filed Sept. 20, 1952, Serial No. 635,521. Published June 30, 1953. Class 1.

580,561. Garden and Patio Furniture—Namely, Tables, Chairs, Stools, Ottomans, Barbecue Sets Consisting of Table and Benches, Chaise Longues, Lawn Carts, and Settees. Edward A. Vandy, Chicago, Ill.
Filed Sept. 20, 1952, Serial No. 635,559. Published Apr. 14, 1953. Class 32.

580,562. Perfumes. Faberge, Inc., New York, N. Y.
Filed Sept. 25, 1952, Serial No. 635,753. Published June 30, 1953. Class 51.

580,563. Lubricating Oils and Greases. Macmillan Petroleum Corporation, Los Angeles, Calif.
Filed Sept. 27, 1952, Serial No. 635,879. Published June 23, 1953. Class 15.

580,564. Liquid for Cleaning Glass Optical Surfaces—Namely, Eye Glass Lenses, Photographic Lenses, and the Like. Pacific Universal Products Corporation, doing business under the name and style of Acra Instruments, Pasadena, Calif.
Filed Oct. 6, 1952, Serial No. 636,249. Published June 23, 1953. Class 52.

580,565. Alcohol Beverage of the Chinese Type Known as Ng Ka Py. Wong Sewai, doing business as Wing Lee Wai, San Francisco, Calif., and Hong Kong, China.
Filed Oct. 7, 1952, Serial No. 636,310. Published June 16, 1953. Class 49.

580,566. Portable Tiering Machines and Lift Trucks. Revolvator Company, North Bergen, N. J.
Filed Oct. 10, 1952, Serial No. 636,497. Published June 2, 1953. Class 23.

580,567. Baby Oil Shampoo. "4711" Limited, Beverly Hills, Calif.
Filed Oct. 14, 1952, Serial No. 636,598. Published June 23, 1953. Class 52.

580,568. Medicinal Preparation in Tablet Form Used as a Urinary Sedative in the Palliative Treatment of Prostatitis. Chicago Pharmacal Company, Chicago, Ill.
Filed Oct. 16, 1952, Serial No. 636,687. Published June 30, 1953. Class 18.

580,569. Non-Alcoholic, Maltless, Grape-Flavored Soft Drinks. Petermann Co., Union City, N. J.
Filed Oct. 16, 1952, Serial No. 636,731. Published June 16, 1953. Class 45.

580,570. Women's and Misses' Slips, Petticoats, and Night Gowns. Roth Silk Undergarment Co., Inc., New York, N. Y.
Filed Oct. 16, 1952, Serial No. 636,739. Published June 30, 1953. Class 39.

580,571. Anti-Heparin Compound. Abbott Laboratories, North Chicago, Ill.
Filed Oct. 17, 1952, Serial No. 636,759. Published June 23, 1953. Class 18.

580,572. Women's and Misses' Dresses, Petticoats, Underwear, and Sport Clothes—Namely, Skirts, Blouses, Sweaters, and Vests. Arkay Junior Frocks, Inc., New York, N. Y.
Filed Oct. 20, 1952, Serial No. 636,871. Published June 30, 1953. Class 39.

580,573. Fitted Hand Bags. Murray Menschik, doing business under the trade name Joell Manufacturing Co., Brooklyn, N. Y.
Filed Oct. 20, 1952, Serial No. 636,898. Published June 30, 1953. Class 3.

580,574. Whiskey. Austin, Nichols & Co., Incorporated, Brooklyn, N. Y.
Filed Oct. 21, 1952, Serial No. 636,916. Published June 30, 1953. Class 49.

580,575. Corsets, Gloves of Leather, Fabric, and Combinations Thereof, Etc. Bonwit Teller, Inc., New York, N. Y.
Filed Oct. 21, 1952, Serial No. 636,920. Published June 30, 1953. Class 39.

580,576. Medicinal Preparation in Tablet Form Adapted for Treatment of Red Blood Cell Deficiency Conditions and for Anemia and for Use as a Tonic and Diet Supplement. Chicago Pharmacal Company, Chicago, Ill.
Filed Oct. 21, 1952, Serial No. 636,922. Published June 23, 1953. Class 18.

580,577. Concentrates Used in the Preparation of Maltless Soft Drinks. The Delaware Punch Company of America, San Antonio, Tex.
Filed Oct. 22, 1952, Serial No. 636,971. Published June 16, 1953. Class 45.

580,578. Medicine or Pharmaceutical Preparation in the Nature of a Palatable Cough Remedy for Use in the Symptomatic Treatment of Cough. Ernst Bischoff Co., Incorporated, sometimes called Ernst Bischoff Co., Inc., and Ernst Bischoff Company, Inc., Ivoryton, Conn.
Filed Oct. 23, 1952, Serial No. 637,032. Published June 30, 1953. Class 18.

580,579. Antitubercular Compositions. Carlo Erba S. p. A., Milan, Italy.
Filed Oct. 23, 1952, Serial No. 637,033. Published June 30, 1953. Class 18.

580,580. Medicinal Preparation of Penicillin and Dihydrostreptomycin Used in the Treatment of Bacterial Infections. Eli Lilly and Company, Indianapolis, Ind.
Filed Oct. 23, 1952, Serial No. 637,058. Published June 30, 1953. Class 18.

580,581. Live Chinchillas. George C. England, Inglewood, Calif.
Filed Oct. 24, 1952, Serial No. 637,120. Published June 30, 1953. Class 1.

580,582. Non-Caloric, Carbonated, Maltless Soft Drink. Newport Mineral Water Co., Inc., Newport, Ky.
Filed Oct. 24, 1952, Serial No. 637,136. Published June 16, 1953. Class 45.

580,583. Water-Repellent and Treated Leather. Independent Leather Manufacturing Co., Inc., Gloversville, N. Y.
Filed Oct. 28, 1952, Serial No. 637,278. Published June 30, 1953. Class 1.

580,584. Antibiotic Feed Supplements. Schenley Laboratories, Inc., New York, N. Y.
Filed Oct. 30, 1952, Serial No. 637,403. Published June 30, 1953. Class 18.

580,585. Fruit and Imitation Fruit Concentrates and Bases for Making Non-Alcoholic, Maltless Soft Drinks and Punch. Bob White, doing business under the name Bob White Organization, Miami, Fla.
Filed Oct. 30, 1952, Serial No. 637,412. Published June 16, 1953. Class 45.

580,586. Natural and Synthetic Essential Oils and Aromatic Chemicals Used as a Base or an Ingredient in Perfumery. Firmenich Incorporated, New York, N. Y.
Filed Oct. 31, 1952, Serial No. 637,433. Published June 23, 1953. Class 51.

580,587. Fresh Limes, Avocados, and Mangos. Brooks, Inc., Homestead, Fla.
Filed Nov. 1, 1952, Serial No. 637,476. Published June 2, 1953. Class 46.

580,588. Fresh Limes, Avocados, and Mangos. Brooks, Inc., Homestead, Fla.
Filed Nov. 1, 1952, Serial No. 637,477. Published May 26, 1953. Class 46.

580,589. Whiskey. The Foster Trading Corporation, doing business as T. W. Samuels Distillery, Old Jordan Distillery, Our Own Distillery, and Country Distillers, Louisville, Ky.
Filed Nov. 5, 1952, Serial No. 637,650. Published June 16, 1953. Class 49.

580,590. Women's and Children's Dresses, Blouses, Skirts, and Jackets. Texas Dress Corporation, Dallas, Tex.
Filed Nov. 5, 1952, Serial No. 637,670. Published June 30, 1953. Class 39.

580,591. Preparation for the Treatment of Athlete's Foot, Ringworm, and Other Fungicidal Infections. Red River Chemical Co., Philadelphia, Pa.
Filed Nov. 6, 1952, Serial No. 637,720. Published June 23, 1953. Class 18.

580,592. Children's Grooved Phonograph Records. The Record Guild of America Inc., New York, N. Y.
Filed Nov. 7, 1952, Serial No. 637,792. Published July 14, 1953. Class 36.

580,593. Machines for Providing an Interrupted Peripheral Surface on Cylindrical Objects. Perfect Circle Corporation, Hagerstown, Ind.
Filed Nov. 15, 1952, Serial No. 638,155. Published June 9, 1953. Class 23.

580,594. Beet Seed. The Great Western Sugar Company, Denver, Colo.
Filed Nov. 24, 1952, Serial No. 638,533. Published June 23, 1953. Class 1.

580,595. Beet Seed. The Great Western Sugar Company, Denver, Colo.
Filed Nov. 24, 1952, Serial No. 638,534. Published June 23, 1953. Class 1.

580,596. Beet Seed. The Great Western Sugar Company, Denver, Colo.
Filed Nov. 24, 1952, Serial No. 638,535. Published June 23, 1953. Class 1.

580,597. Coal. Power Coal Company, Kansas City, Mo.
Filed Nov. 24, 1952, Serial No. 638,552. Published June 23, 1953. Class 1.

580,598. Kitchen Scoop for Serving Food. Dispensers, Inc., Los Angeles, Calif.
Filed Dec. 5, 1952, Serial No. 639,025. Published June 2, 1953. Class 23.

580,599. Skirts for Women and Girls. Summit Sportswear Company, Boston, Mass.
Filed Dec. 8, 1952, Serial No. 639,200. Published June 30, 1953. Class 39.

580,600. Storm Window and Screen Combinations. Weather Products Corporation, Providence and Warwick, R. I.
Filed Dec. 10, 1952, Serial No. 639,296. Published June 23, 1953. Class 12.

580,601. Medicinal Preparation of Diethylstilbestrol and Methyltestosterone Used in the Treatment of Various Medical Conditions, Including Menopausal Symptoms. Eli Lilly and Company, Indianapolis, Ind.
Filed Dec. 11, 1952, Serial No. 639,320. Published June 30, 1953. Class 18.

580,602. Asphalt Material for Resurfacing Concrete and Wood Floors. Panther Oil & Grease Mfg. Co., Fort Worth, Tex.
Filed Dec. 12, 1952, Serial No. 639,386. Published June 23, 1953. Class 12.

580,603. Bath Towels; Bath Mats; Dish Towels; Wash Cloths; Doilies; Bed Sheets; Bed Spreads; Blankets; Textile, Braided, and Looped Carpets and Rugs; Table Cloths; Window Curtains; Shower Curtains; Draperies; Cotton, Linen, Rayon, and Woolen Fabrics by the Piece; Pillow Cases; and Auto Robes. Stern Brothers, New York, N. Y.
Filed Dec. 15, 1952, Serial No. 639,523. Published June 30, 1953. Class 42.

580,604. Dress Shields. I. B. Kleinert Rubber Company, New York, N. Y.
Filed Dec. 22, 1952, Serial No. 639,887. Published June 30, 1953. Class 40.

580,605. Dress Shields Attached to a Portion of a Sleeve, and Dress Shields. I. B. Kleinert Rubber Company, New York, N. Y.
Filed Dec. 24, 1952, Serial No. 640,000. Published June 30, 1953. Class 40.

580,606. Dresses for the Use of Women. Lew S. Blaustein, Rockville Centre, N. Y.
Filed Dec. 29, 1952, Serial No. 640,098. Published June 30, 1953. Class 39.

580,607. Ladies' Dresses. Feinrider Bros., New York, N. Y.
Filed Dec. 31, 1952, Serial No. 640,201. Published June 30, 1953. Class 39.

580,608. Ready-Mixed Paint. Inter-Coastal Paint Corporation, East St. Louis, Ill.
Filed Jan. 2, 1953, Serial No. 640,282. Published June 30, 1953. Class 16.

580,609. Belt Driven, Shallow and Deep Well, Ejector or Jet Pumps. Woodmanse Mfg. Co., Freeport, Ill.
Filed Jan. 5, 1953, Serial No. 640,367. Published June 16, 1953. Class 23.

580,610. Filing Cases. Convoy, Incorporated, Canton, Ohio.
Filed Jan. 12, 1953, Serial No. 640,613. Published June 30, 1953. Class 32.

580,611. Cigars. E. Regensburg & Sons, New York, N. Y.
Filed Jan. 14, 1953, Serial No. 640,759. Published June 30, 1953. Class 17.

580,612. Grounding Devices Adapted To Be Attached to Equipment for the Prevention of Shock to Operators Due to Static Electricity. Walter G. Legge Company, Inc., New York, N. Y.
Filed Jan. 15, 1953, Serial No. 640,795. Published June 30, 1953. Class 21.

580,613. Chalk Boards. The Enamel Products Company, Cleveland, Ohio.
Filed Jan. 21, 1953, Serial No. 641,032. Published June 16, 1953. Class 50.

580,614. Tufted Pile Carpeting. Eugene T. Barwick, doing business as E. T. Barwick Mills, Chamblee, Ga.
Filed Jan. 26, 1953, Serial No. 641,265. Published June 30, 1953. Class 42.

580,615. Ladies' and Misses' Slips. Morton Brown, New York, N. Y.
Filed Feb. 4, 1953, Serial No. 641,709. Published June 30, 1953. Class 39.

580,616. Stuffed Toys. Character Novelty Co., South Norwalk, Conn.
Filed Feb. 6, 1953, Serial No. 641,831. Published June 30, 1953. Class 22.

580,617. Ladies' Blouses, Skirts, and Sport Shorts. Henro Blouse Corporation, New York, N. Y.
Filed Feb. 9, 1953, Serial No. 641,925. Published June 30, 1953. Class 39.

580,618. Brassières, Ladies' Foundation Undergarments, and Ladies' Bathing Suits. The La Resista Corset Company, Bridgeport, Conn.
Filed Feb. 12, 1953, Serial No. 642,148. Published June 30, 1953. Class 39.

580,619. Thread and Yarn. S. H. Kress and Company, New York, N. Y.
Filed Feb. 9, 1953, Serial No. 642,445. Published June 30, 1953. Class 43.

580,620. Locks and Keys. General Motors Corporation, Detroit, Mich.
Filed Mar. 5, 1953, Serial No. 643,152. Published June 23, 1953. Class 25.

Service Marks

580,621. Preparing and Printing Advertising Copy. Harrison Art Advertising, Inc., doing business as Harrison Color Process, Philadelphia, Pa.
Filed May 9, 1951, Serial No. 613,669. Published June 30, 1953. Class 101.

580,622. Financing Automobile Dealers' Time Sales of New and Used Automobiles at the Retail Level and Making Loans Secured by Chattel Mortgages to Automobile Dealers. Western Acceptance Corporation, Pueblo, Colo.
Filed Oct. 3, 1951, Serial No. 619,556. Published June 30, 1953. Class 102.

580,623. Banking Services—Namely, Financing, Credit and Loan Services, Checks, Drafts, Acceptances, Foreign Exchange, Collection Services, and Letters of Credit. International Banking Corporation, New York, N. Y., and elsewhere in the United States and in foreign nations.
Filed July 10, 1952, Serial No. 632,376. Published June 30, 1953. Class 102.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

580,624. (Class 46. Foods and Ingredients of Foods.) Stoppers, Inc., New York, N. Y., assignee of J. Roy Allen, doing business under the name Stoppers Company. Original filed, act of 1946, Principal Register, Aug. 17, 1950; amended to application, Supplemental Register, Jan. 12, 1953, Serial No. 602,300.

STOPPERS

For Candy.
Claims use since July 14, 1950.

580,625. (Class 18. Medicines and Pharmaceutical Preparations.) Bernard Pharmacal Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 28, 1951; amended to application, Supplemental Register, Mar. 26, 1953, Serial No. 610,615.

FORTY PLUS

For Multiple Vitamin Preparation.
Claims use since Jan. 10, 1951.

580,626. (Class 6. Chemicals and Chemical Compositions.) Tempo Company, Kansas City, Mo. Original filed, act of 1946, Principal Register, May 10, 1951; amended to application, Supplemental Register, July 22, 1953, Serial No. 613,746.



For Photo-Sensitive Coatings for Lithographic Plates, Developing Agents for Sensitized Lithographic Plates, Etching Agents for Lithographic Plates, Preparations for Intensifying the Image on Lithographic Plates, Preparations Used To Preserve Lithographic Plates When They Are Not in Use.
Claims use since Apr. 13, 1945.

580,627. (Class 2. Receptacles.) Bowes Industries, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, June 6, 1951; amended to application, Supplemental Register, May 7, 1953, Serial No. 614,812.

CHOWTRAE

For Paper Plates.
Claims use since May 9, 1951.

580,628. (Class 46. Foods and Ingredients of Foods.) Hygrade Food Products Corporation, Detroit, Mich. Original filed, act of 1946, Principal Register, July 5, 1951; amended to application, Supplemental Register, June 24, 1952, Serial No. 616,101.



For Frankfurters.
Claims use since June 14, 1951.

580,629. (Class 2. Receptacles.) Jarrett, Rainsford & Laughton Limited, Birmingham, England. Original filed, act of 1946, Principal Register, Aug. 27, 1951; amended to application, Supplemental Register, Feb. 17, 1953, Serial No. 618,117.



Applicant disclaims the pictorial representation of the goods, apart from the mark as shown.
For Empty Face Powder Compact Cases.
Claims use since 1935; and first used in commerce between foreign nations and the United States in February 1950.

580,630. (Class 2. Receptacles.) Comet Envelope & Paper Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, December 20, 1951; amended to application, Supplemental Register, Apr. 20, 1953, Serial No. 622,706.

Kitchen-ees

For Paper Bags.
Claims use since Nov. 8, 1950.

580,631. (Class 18. Medicines and Pharmaceutical Preparations.) Feedstuffs Processing Company, Oakland, Calif. Original filed, act of 1946, Principal Register, Mar. 24, 1952; amended to application, Supplemental Register, Mar. 16, 1953, Serial No. 626,938.

NUSWEET

For Protein, Fat, Fibre, and Ash Mixture Adapted as a Food Supplement in the Preparation of Livestock Feeds.
Claims use since Apr. 10, 1947.

580,632. (Class 22. Games, Toys, and Sporting Goods.) Charles Arliss, doing business as Premier Plastics Company, Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Apr. 8, 1952; amended to application, Supplemental Register, Dec. 10, 1952, Serial No. 627,731.

MY ROCK-A-DOLLY CRADLE

For Toy Cradles.
Claims use since Dec. 5, 1951.

580,633. (Class 35. Belting, Hose, Machinery Packing, and Nonmetallic Tires.) United States Rubber Company, New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 12, 1952; amended to application, Supplemental Register, July 3, 1953, Serial No. 628,015.

SCUFF GUARD

Applicant claims ownership of Registration No. 298,072.
For Pneumatic Automobile Tires.
Claims use since Apr. 2, 1952.

580,634. (Class 2. Receptacles.) Burgess and Why Corporation, Philadelphia, Pa. Original filed, act of 1946, Principal Register, Apr. 17, 1952; amended to application, Supplemental Register, Mar. 17, 1953, Serial No. 628,189.

"MIDLOK"

For Folding Paper Boxes.
Claims use since Feb. 14, 1952.

580,635. (Class 2. Receptacles.) Illinois Baking Corporation, Chicago, Ill. Original filed, act of 1946, Principal Register, May 7, 1952; amended to application, Supplemental Register, July 27, 1953, Serial No. 629,301.

TRI-PAK CLEARVIEW

For Ice Cream Cone Dispensers, Said Dispensers Being Sold and/or Leased Empty in Trade.
Claims use since Sept. 13, 1951.

580,636. (Class 1. Raw or Partly Prepared Materials.) Hudson Foam Latex Fabricators, Inc., Yonkers, N. Y. Original filed, act of 1946, Principal Register, May 22, 1952; amended to application, Supplemental Register, July 29, 1953, Serial No. 630,074.

Cush-N-Foam

For Sheets and Slab Foam Rubber and Cellular Rubber.
Claims use since May 12, 1952.

580,637. (Class 35. Belting, Hose, Machinery Packing, and Nonmetallic Tires.) Baldwin Belting, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, June 11, 1952; amended to application, Supplemental Register, Nov. 10, 1952, Serial No. 631,038.

BALDWIN TREAD-TOP BELTING

For Leather Belting.
Claims use since May 8, 1950.

580,638. (Class 50. Merchandise Not Otherwise Classified.) Theodore S. Reed, doing business as Sales-Aid Co., Trenton, N. J. Original filed, act of 1946, Principal Register, Aug. 7, 1952; amended to application, Supplemental Register, July 20, 1953, Serial No. 633,589.

VIZ-U-LIZER

For Boards Having Simulated Road Intersections Thereon and Designed for Use in Reproducing Traffic Conditions in Miniature.
Claims use since May 12, 1952.

580,639. (Class 46. Foods and Ingredients of Foods.) Stono Potato Washer, Stono, S. C. Original filed, act of 1946, Principal Register, Jan. 6, 1953; amended to application, Supplemental Register, July 7, 1953, Serial No. 640,415.



For Potatoes in Their Natural State.
Claims use since June 15, 1952.

580,640. (Class 4. Abrasives and Polishing Materials.) Brillo Manufacturing Company, Inc., Brooklyn, N. Y. Filed Jan. 16, 1953. Serial No. 640,835.



The drawing is lined for the colors red and green. The representations of a woman are fanciful. Applicant claims ownership of Registration No. 537,178.

For Soap Pads.

Claims use since Jan. 2, 1951.

580,641. (Class 4. Abrasives and Polishing Materials.) Brillo Manufacturing Company, Inc., Brooklyn, N. Y. Filed Jan. 16, 1953, Serial No. 640,836.



The drawing is lined for the colors red and green. The representations of a woman are fanciful. Applicant claims ownership of Registration No. 537,178.

For Soap Pads.

Claims use since Jan. 2, 1951.

580,642. (Class 4. Abrasives and Polishing Materials.) Brillo Manufacturing Company, Inc., Brooklyn, N. Y. Filed Jan. 16, 1953, Serial No. 640,838.



The drawing is lined for the colors red and green. The representation of a woman is fanciful.

For Cleanser Consisting of Scouring Pads and a Cake of Soap.

Claims use since Jan. 2, 1951.

580,643. (Class 12. Construction Materials.) The Philip Carey Manufacturing Company, Lockland, Cincinnati, Ohio. Original filed, act of 1946, Principal Register, Jan. 29, 1953; amended to application, Supplemental Register, July 23, 1953, Serial No. 641,496.

HUSHMAT

For Sound Deadening Sheet Material.

Claims use since Feb. 5, 1952.

580,644. (Class 46. Foods and Ingredients of Foods.) Ralph N. Takaki, doing business as Takaki Sanyo-Do, Honolulu, Hawaii. Original filed, act of 1946, Principal Register, Feb. 16, 1953; amended to application, Supplemental Register, July 15, 1953, Serial No. 642,320.

NORI-CHA

海苔茶

"Nori" means "Seaweed" and "Cha" means "Tea," the combination being translatable as the fanciful term "Tea-Weed."

For Mixed Dried Tea and Seaweed Which May Be Used for Bouillon Flavoring or as a Seasoning.

Claims use since May 1950.

580,645. (Class 46. Foods and Ingredients of Foods.) Ralph M. Townsend, Fairfax, Va. Filed Mar. 30, 1953, Serial No. 644,473.



Applicant claims ownership of Registrations Nos. 564,449 and 299,191.

For Fresh Oranges, Fresh Orange Juice, Canned Single Strength Orange Juice, Orange Juice in Concentrated Form, Frozen Orange Juice in Concentrated Form, and Orange Marmalade and Orange Syrup Used for Food Purposes.

Claims use since on or about Jan. 1, 1952.

580,646. (Class 22. Games, Toys, and Sporting Goods.) The United States Playing Card Company, Cincinnati and East Norwood, Cincinnati, Ohio. Filed June 23, 1953, Serial No. 649,262.



Applicant makes no claim to the exclusive right to the use of the words "Playing Cards." The lining on the drawing does not represent color. Applicant claims ownership of Registration No. 118,232.

For Playing Cards.

Claims use since 1916 on the mark as shown, and since 1907 as to "Blue Ribbon."

Service Mark

580,647. (Class 103. Construction and Repair.) Perry Reichman, doing business as Perry's Valet Service, Cincinnati, Ohio. Original filed, act of 1946, Principal Register, Feb. 9, 1953; amended to application, Supplemental Register, May 25, 1953, Serial No. 641,972.

Perry's
Valet Service

For Dry Cleaning Services.

Claims use since Dec. 16, 1949.

TRADE-MARK REGISTRATIONS RENEWED

91,974. "LANCIA" AND DESIGN. Registered June 10, 1913. Lancia & Co. Re-renewed June 10, 1953, to Lancia & C. Fabrica Automobili Torino S. A., Turin, Italy, a corporation organized under the laws of Italy. Automobiles. Class 19.

91,990. "THE BLUE CROSS" ETC. AND DESIGN. Registered June 10, 1913. Nitedals Taendstikfabrik, Gronvold, near Christiania, Norway. Re-renewed June 10, 1953, to Bryn-Halden & Nitedals Taendstikfabrik A/S, Bryn, near Oslo, Norway, a joint stock company organized under the laws of the Kingdom of Norway. Matches. Class 9.

92,378. STRONCYLATE. Registered July 1, 1913. The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan. Re-renewed July 1, 1953. Preparation for Rheumatism and Rheumatoid Affections, Neuralgias, Myalgias, Etc. Class 18.

92,630. OXIDE. Registered July 22, 1913. Burk Brothers, Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed July 22, 1953. Calf, Kid, and Goat Skins. Class 1.

92,710. "PIERCE" AND REPRESENTATION OF Arrow. Registered July 22, 1913. The Pierce-Arrow Motor Car Company, Buffalo, N. Y. Re-renewed July 22, 1953, to Victor Petry, doing business as Pierce Arrow Motor Car Distributor, San Francisco, Calif. Motor-Cars and Automobiles. Class 19.

93,179. INECTO. Registered Aug. 26, 1913. Inecto Limited, London, England. Re-renewed Aug. 26, 1953, to Sales Affiliates, Inc., New York, N. Y., a corporation of New York. Preparation for Dyeing the Hair, for Human Use. Class 51.

93,846. FLAVO. Registered Oct. 21, 1913. S. Gumpert & Co., Brooklyn, N. Y. Re-renewed Oct. 21, 1953, to S. Gumpert Co., Inc., Jersey City, N. J., a corporation of New York. Combination of flavoring for cake icing. Class 46.

94,207. BOSCUL. Registered Nov. 11, 1913. William S. Scull Company, Camden, N. J., a corporation of New Jersey. Re-renewed Nov. 11, 1953. Blended Coffee. Class 46.

94,392. "BOSTON" AND DESIGN. Registered Dec. 2, 1913. National Tube Company. Re-renewed Dec. 2, 1953, to United States Steel Corporation, Pittsburgh, Pa., a corporation of New Jersey. Pipes, Tubes, and Casings. Class 13.

94,454. REPRESENTATION OF ROMAN GLADIATOR. Registered Dec. 9, 1913. Robt. G. Jackson. Re-renewed Dec. 9, 1953, to Roman Meal Company, Tacoma, Wash., a corporation of Washington. Compound meal or flour composed of Wheat, Rye, and Flax for Cooking Purposes in Making Bread, Cakes, Puddings, Cookies, and the Like. Class 46.

94,664. PENFLEX. Registered Dec. 23, 1913. Pennsylvania Flexible Metallic Tubing Co., Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed Dec. 23, 1953. Barrel-fillers. Class 23.

304,246. "ROYAL WORCESTER" AND DESIGN. Registered June 27, 1933. The White & Bagley Company, Worcester, Mass., a corporation of Massachusetts. Renewed June 27, 1953. Lubricant Oils for Motors and Other Machinery. Class 15.

304,361. "GREENDALE" AND DESIGN. Registered July 4, 1933. Isaac Glaser, doing business as H. Glaser & Son. Renewed July 4, 1953, to H. Glaser & Son, Inc., Boston, Mass., a corporation of Massachusetts. Women's Hosiery. Class 39.

304,982. LIFE GUARD. Registered July 25, 1933. The Ubiko Milling Company, Cincinnati, Ohio. Renewed July 25, 1953, to The Ubiko Milling Company, St. Bernard, Ohio, a corporation of Ohio. Mineral Ingredient for Mixing With Dairy Feeds, Poultry Feeds and Live Stock Feeds To Supply Digestible Minerals in the Feeds. Class 18.

304,987. JEMCO PRUFE. Registered July 25, 1933. J. Mandleberg & Company Limited. Renewed July 25, 1953, to J. Mandleberg & Company (Holdings) Limited, Manchester, England, a company organised under the laws of Great Britain. Water-Proofed Textile Fabrics. Class 42.

304,988. BARBASOL. Registered July 25, 1933. The Barbasol Company, Indianapolis, Ind., a corporation of Delaware. Renewed July 25, 1953. Safety Razors and Blades. Class 23.

305,124. - OZATION. Registered Aug. 1, 1933. Kalle & Co. Aktiengesellschaft, Wiesbaden-Biebrich, Germany. Renewed Aug. 1, 1953, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware. Prints Prepared on Light-Sensitive Copying or Photographic Paper. Class 38.

305,350. "SUNTORY" AND REPRESENTATION OF JAPANESE CHARACTERS. Registered Aug. 15, 1933. Kabushiki Kaisha Kotobukiya, Osaka, Japan, a joint stock company organized under the laws of Japan. Renewed Aug. 15, 1953. Whisky, gin, brandy, and rum. Class 49.

305,445. NEUTROX. Registered Aug. 15, 1933. Bode Drug Company, Inc., New Brunswick, N. J. Renewed Aug. 15, 1953, to Vick Chemical Company, New York, N. Y., a corporation of Delaware. Toilet Preparations—Namely, Tooth-Paste, Mouth-Wash, Ointment for All Skin Ailments, Etc. Class 51.

305,471. CELERO. Registered Aug. 15, 1933. Swift and Company. Renewed Aug. 15, 1953, to Swift & Company, Chicago, Ill., a corporation of Illinois. Gelatin. Class 46.

305,657. JEMCO PRUFE. Registered Aug. 22, 1933. J. Mandleberg & Company Limited. Renewed Aug. 22, 1953, to J. Mandleberg & Company (Holdings) Limited, Manchester, England, a company organized under the laws of Great Britain. Showerproof Textile Fabrics. Class 42.

305,659. "FREEMAN" ETC. AND DESIGN. Registered Aug. 22, 1933. Freeman Shoe Corporation, Beloit, Wis., a corporation of Wisconsin. Renewed Aug. 22, 1953. Boots and Shoes of Leather, Fabric, or Combinations Thereof. Class 39.

305,755. "RIPPLEGLOW" AND DESIGN. Registered Aug. 22, 1933. Alfred L. Helwith & Co., Inc. Renewed Aug. 22, 1953, to J. P. Stevens & Co., Inc., New York, N. Y., a corporation of Delaware. Men's Cotton Shirtings in the Piece, and Cotton Textile Fabrics. Class 42.

306,069. CHRONOFLO. Registered Sept. 5, 1933. Builders' Iron Foundry, Providence, R. I., a corporation of Rhode Island. Renewed Sept. 5, 1953. Electric Flow Meters and Pressure or Rate of Flow Controllers, and Telemeters. Class 26.

306,179. MAGNAVOX. Registered Sept. 12, 1933. The Magnavox Company. Renewed Sept. 12, 1953, to The Magnavox Company, Fort Wayne, Ind., a corporation of Delaware. Electrical Condensers and Capacitors. Class 21.

306,272. EDISON-DICK. Registered Sept. 12, 1933. A. B. Dick Company, Chicago, Ill. Renewed Sept. 12, 1953, to A. B. Dick Company, Niles, Ill., a corporation of Illinois. Duplicating Machines and Parts Thereof. Class 23.

306,513. REPRESENTATION OF BOAR'S HEAD. Registered Sept. 19, 1933. T. B. Hall & Co., Limited, Liverpool, England. Renewed Sept. 19, 1953, to Arthur Guinness, Son & Co. (Dublin) Limited, Dublin, Ireland, a joint stock company registered under the laws of the republic of Ireland. Malt Beverages With Not More Than the Legal Alcoholic Content. Class 48.

306,579. VELVETOUCH. Registered Sept. 26, 1933. The S. K. Wellman Company, Cleveland, Ohio. Renewed Sept. 26, 1953, to The S. K. Wellman Company, Bedford, Ohio, a corporation of Ohio. Brake Linings and Transmission Linings. Class 35.

306,673. "STERLING" AND DESIGN. Registered Sept. 26, 1933. Sterling Products Company. Renewed Sept. 26, 1953, to Sterling Brewers, Inc., Evansville, Ind., a corporation of Indiana. Malt Products—Namely, Beer. Class 48.

306,904. "BARBASOL" ETC. AND DESIGN LINED FOR RED AND BLUE. Registered Oct. 3, 1933. The Barbasol Company, Indianapolis, Ind., a corporation of Delaware. Renewed Oct. 3, 1953. Safety Razors and Blades. Class 23.

307,122. FEATHERNAP. Registered Oct. 17, 1933. I. B. Kleinert Rubber Company, New York, N. Y., a corporation of New York. Renewed Oct. 17, 1953. Dress Shields. Class 40.

307,371. "THE ABERFOYLE" ETC. AND DESIGN. Registered Oct. 24, 1933. Lang Brothers Limited, Glasgow, Scotland, a corporation organized under the laws of Great Britain. Renewed Oct. 24, 1953. Whisky. Class 49.

307,572. SPEEDBALL. Registered Oct. 31, 1933. C. Howard Hunt Pen Co., Camden, N. J., a corporation of New Jersey. Renewed Oct. 31, 1953. Text Books Including Plates and Instruction Sheets. Class 38.

307,877. CIRCUS. Registered Nov. 7, 1933. The Menasha Products Company. Renewed Nov. 7, 1953, to Marathon Corporation, Menasha, Wis., a corporation of Wisconsin. Receptacles Made of Pulp—Namely, Cartons. Class 2.

307,963. "RIPPLERAY" AND DESIGN. Registered Nov. 14, 1933. Alfred L. Helwith & Co., Inc. Renewed Nov. 14, 1953, to J. P. Stevens & Co., Inc., New York, N. Y., a corporation of Delaware. Men's Cotton Shirtings in the Piece, and Cotton Textile Fabrics. Class 42.

308,015. CRAIG. Registered Nov. 14, 1933. Plough, Inc., Memphis, Tenn., a corporation of Delaware. Renewed Nov. 14, 1953. Medicinal and Toilet Preparations—Namely, Aspirin, Laxin, a Medicinal Preparation in Tablet Form for Treatment of Constipation and Indigestion, Etc. Class 51.

308,060. PRISCILLA. Registered Nov. 21, 1933. Abraham & Straus, Inc., New York, N. Y. Renewed Nov. 21, 1953, to Federated Department Stores, Inc., Brooklyn, N. Y., a corporation of Delaware. Ice Cream, Frappes, Stuffed Dates, Figs, Dried; Prunes, Dried; Etc. Class 46.

308,126. "TAMO'SHANTER" ETC. AND DESIGN. Registered Nov. 21, 1933. Lang Brothers Limited, Glasgow, Scotland, a corporation organized under the laws of Great Britain. Renewed Nov. 21, 1953. Whisky. Class 49.

308,260. MIRACLE WHIP. Registered Nov. 28, 1933. Kraft-Phenix Cheese Corporation. Renewed Nov. 28, 1953, to Kraft Foods Company, Chicago, Ill., a corporation of Delaware. Salad Dressing and Salad Spread. Class 46.

308,307. "VARSITY-BACK". Registered Nov. 28, 1933. Excelsior Varsity Underwear Corporation, Baltimore, Md. Renewed Nov. 28, 1953, to Varsity Pajamas, Incorporated, New York, N. Y., a corporation of Maryland. Pajamas and Underwear for Men, Women, and Children. Class 39.

308,418. "VACUMATIC" ETC. Registered Dec. 5, 1933. The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin. Renewed Dec. 5, 1953. Fountain Pens, Mechanical Pencils and Desk Sets. Class 37.

308,422. THE ESSO DEALER. Registered Dec. 5, 1933. Esso Incorporated, New York, N. Y., a corporation of Delaware. Renewed Dec. 5, 1953. Monthly Periodical. Class 38.

308,563. CAL-ORO. Registered Dec. 12, 1933. Santa Ana-Tustin Mutual Citrus Association, Tustin, Calif., a corporation of California. Renewed Dec. 12, 1953. Fresh Citrus Fruits. Class 46.

308,567. DUPOR. Registered Dec. 12, 1933. Harvey S. Cover, South Bend, Ind. Renewed Dec. 12, 1953. Respirators and Gas Masks. Class 44.

308,709. "CONNOLLY" AND DRAWING. Registered Dec. 19, 1933. Connolly Shoe Co., Stillwater, Minn., a corporation of Minnesota. Renewed Dec. 19, 1953. Shoes Comprising Leather, Fabric, and/or Rubber. Class 39.

308,732. PUFFSPUN. Registered Dec. 19, 1933. Riegel Textile Corporation. Renewed Dec. 19, 1953, to Riegel Textile Corporation, New York, N. Y., a corporation of Delaware. Cotton Piece Goods — Namely, Diapers. Class 39.

308,793. "PEACH DOWN" AND DESIGN. Registered Dec. 19, 1933. Alfred L. Helwith & Co., Inc. Renewed Dec. 19, 1953, to J. P. Stevens & Co., Inc., New York, N. Y., a corporation of Delaware. Men's Cotton Shirtings in the Piece, and Cotton Textile Fabrics. Class 42.

308,799. PETER POLLY TOGS. Registered Dec. 19, 1933. Peter Polly Togs, Inc., New York, N. Y., a corporation of New York. Renewed Dec. 19, 1953. Children's Dresses, Baby Boy Suits, Playsuits, Rompers and Creepers. Class 39.

308,802. "BELLRINGER" ETC. AND DESIGN. Registered Dec. 19, 1933. Riegel Textile Corporation. Renewed Dec. 19, 1953, to Riegel Textile Corporation, New York, N. Y., a corporation of Delaware. Cotton Piece Goods and Fabricated Articles Made From Cotton—Namely, Sheets, Pillowcases, Diapers and Handkerchiefs. Class 42.

309,368. DIXIE CREAM. Registered Jan. 9, 1934. Elmer A. Hubbs, doing business as Dixie Cream Donut Company, Dallas, Tex. Renewed Jan. 9, 1954, to Dixie Cream Flour Company, St. Louis, Mo., a corporation of Missouri. Doughnuts and Doughnut Flour. Class 46.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

308,629. KINGTASTE. Registered Dec. 12, 1933. The Capital City Products Company, Columbus, Ohio. Cheese, Thousand Island Dressing, Mayonnaise, Etc. Class 46. Amended as follows: In the statement, lines 8, 9, and 10, "cheese, Thousand Island dressing, sandwich spread," is deleted.

346,900. CHINATWIL. Registered June 8, 1937. Botany Worsted Mills, Passaic, N. J. Woolen Piece Goods. Class 42. The drawing is hereby amended to appear as follows:

CHINATWILL

400,063. ARTISAN. Registered Feb. 16, 1943. W. P. Fuller & Co., San Francisco, Calif. Paints Sold in Paste and Ready Mixed Forms, Etc. Class 16. Restricted under the provisions of section 18 of the Trade-Mark Act of 1946 to that area of the United States excluding the area comprising the States of Ohio, Michigan, Indiana, Kentucky, West Virginia, Maryland, Virginia, Pennsylvania, and New York, by order of the Commissioner dated August 25, 1953, following decision on Concurrent Use Proceeding No. 91, *The Harrison Paint & Varnish Company* v. *W. P. Fuller & Co.*

501,443 HORLACHER'S. Registered Aug. 10, 1948. Horlacher Brewing Company, Allentown, Pa. Beer and Ale. Class 48. The drawing is hereby amended to appear as follows:

Horlacher

533,014. AMERICAN BEAUTY. Registered Nov. 7, 1950. Wm. A. Camp Co., Inc., New York, N. Y. Nuts in the Shell. Class 46. Amended as follows: In the statement, line 8, "nuts in the shell' is deleted and *raw unshelled nuts, other than peanuts, to wit: Brazil nuts, almonds, walnuts, pecans and filberts: and for raw unshelled pine nuts and roasted and salted unshelled pistachio nuts* is inserted in lieu thereof; and in line 9, after "foods," (second occurrence) *the date of first use, and of first use in commerce among the several States for such pine nuts and pistachio nuts being July 1, 1947,* is inserted.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 436,985. Registered Mar. 2, 1948. Peter Adamopoulos, Haverhill, Mass. Republished by registrant.

ADAMCO

For Ointment for Skin Irritations.
Claims use since Dec. 1, 1946.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 250,797. Registered Dec. 18, 1928. Blake Manufacturing Co., Springfield, Mass. Republished by Blake Manufacturing Corporation, Clinton, Mass., a corporation of Massachusetts.

SUN-LIGHT

For Flash Lights.
Claims use since Sept. 15, 1927.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Reg. No. 409,249. Registered Sept. 26, 1944. Skuttle Manufacturing Company, Detroit, Mich., a corporation of Michigan. Republished by registrant.

VAPOGLAS

For Diffuser Plates for Air Humidifying Apparatus.
Claims use since on or about Jan. 15, 1941.

CLASS 37

PAPER AND STATIONERY

Reg. No. 209,179. Registered Feb. 16, 1926. Bermingham & Prosser Company, Kalamazoo, Mich., a corporation of Michigan. Republished by registrant, present address Chicago, Ill.

Peacock



For Book and Printing Papers.
Claims use since Jan. 1, 1924.

Reg. No. 383,786. Registered Dec. 24, 1940. Bermingham & Prosser Co., Chicago, Ill., a corporation of Michigan. Republished by registrant.

TOTEM

For Poster Paper and Construction Paper, Used for Cut Out and Construction Work, Mounting, Paint and Crayon Art Work, Covers, and Other Art Projects.
Claims use since May 31, 1940.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 55,129. Registered Aug. 7, 1906. H. B. Wiggin's Sons Company, Bloomfield, N. J., a corporation of New Jersey. Republished by registrant.

Fab-ri-ko-na

For Draperies, Hangings, and Woven Fabrics To Be Attached to Walls.
Claims use since Feb. 6, 1897.

Reg. No. 417,162. Registered Oct. 16, 1945. Hafner Associates, Inc., New York, N. Y., a corporation of New York. Republished by registrant.



The words "A Hafner Fabric" are disclaimed apart from the mark as shown. The drawing is lined for red and gray.
For Textile Fabrics in the Piece Made of Silk, Cotton, Wool, Rayon, Nylon, Protein Fibres or Mixtures Thereof.
Claims use since April 1944.

CLASS 43

THREAD AND YARN

Reg. No. 316,557. Registered Aug. 28, 1934. Threads, Incorporated, Gastonia and Arkray Village, Near Gastonia, N. C., a corporation of North Carolina. Republished by registrant, present address Gastonia, N. C.

FANTAN

For Sewing Thread.
Claims use since about Oct. 1, 1931.

Reg. No. 316,822. Registered Sept. 4, 1934. Threads, Incorporated, Gastonia and Arkray Village, Near Gastonia, N. C., a corporation of North Carolina. Republished by registrant, present address Gastonia, N. C.



For Sewing Thread.
Claims use since about Oct. 1, 1931.

Reg. No. 326,105. Registered July 16, 1935. Threads, Incorporated, Gastonia and Arkray Village, Near Gastonia, N. C., a corporation of North Carolina. Republished by registrant, present address Gastonia, N. C.



For Sewing Thread.
Claims use since about Oct. 1, 1931.

REISSUES

SEPTEMBER 29, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

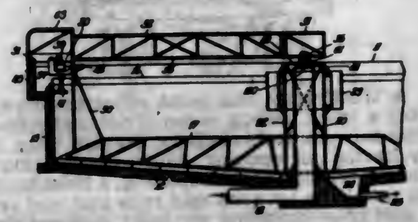
23,714

LIQUID TREATMENT TANK WITH A SOLIDS IMPELLER MEANS HAVING A NORMALLY SUBMERGED DRIVE WHEEL

Augustus C. Durdin III, Rockford, Ill., assignor to Graver Tank & Mfg. Co., Inc., a corporation of Delaware

Original No. 2,427,091, dated September 9, 1947, Serial No. 507,631, October 25, 1943. Application for reissue June 11, 1952, Serial No. 293,029

5 Claims. (Cl. 210—55)



6. In apparatus for the treatment of liquid with precipitation of solids, a tank having a side wall associated therewith, the inside of which presents an upstanding driveway; liquid inlet and outlet means associated with the tank, whereby a liquid level can be substantially maintained in the tank, above said driveway; a frame structure adapted to be moved along said driveway; means to support said frame structure while allowing it to be moved; solids impeller means in the tank, mounted on said frame structure; a second frame, movably supported by the frame structure for inward and outward movement relative to the tank and biased for such outward movement; a drive motor mounted on the second frame; and a drivewheel mounted on the second frame, adapted to be driven by the drive motor, having an upright axis, being adapted to move into contact with the driveway by said outward movement of the second frame, and thereby providing a limit for said outward movement and frictional traction for said second frame, said frame structure and said solids impeller means.

23,715

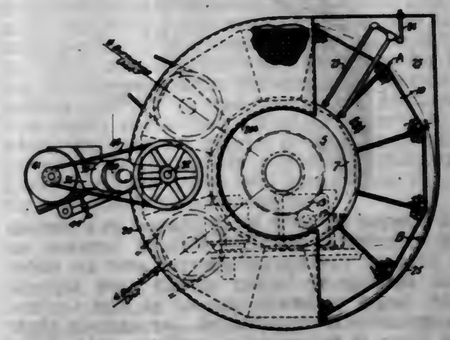
BURNISHING MACHINE AND METHOD

Clarence C. Kinker, Manitou Beach, Mich., and James J. Murtagh, Toledo, Ohio, assignors to Gerity-Michigan Corporation, Adrian, Mich., a corporation of Michigan

Original No. 2,608,803, dated September 2, 1952, Serial No. 140,522, January 25, 1950. Application for reissue April 15, 1953, Serial No. 349,114

18 Claims. (Cl. 51—134)

1. An article burnishing machine having a tank with its bottom inclined to a horizontal and adapted to hold a burnishing liquid in the lower side portion thereof, and to drain liquid to said lower side portion from elevated portions of the tank bottom, a burnishing liquid in said tank, an endless article-carrying means movable through the tank and liquid therein on an incline substantially corresponding to that of the tank, and means *comprising a tool having a plurality of separated elongated flexible rubber rubbing elements* operable to coact with and buff an article carried by said first means when the article is in said liquid.



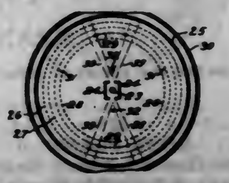
23,716

ELECTRON BEAM VACUUM TUBE

George E. Loper, Dallas, Tex., assignor, by mesne assignments, to Seeony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

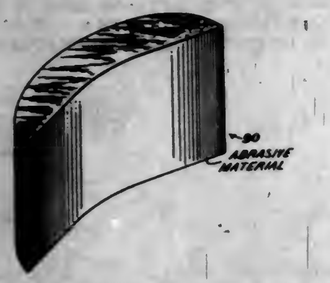
Original No. 2,545,822, dated March 20, 1951, Serial No. 655,664, March 20, 1946. Application for reissue September 13, 1951, Serial No. 246,494

11 Claims. (Cl. 313—80)



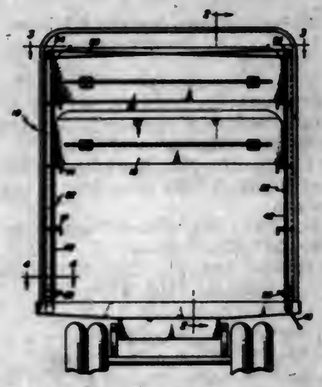
9. An electron beam vacuum tube having a cathode, an anode, electron beam forming means for establishing an electron beam between said cathode and said anode, a suppressor grid adjacent said anode, a pair of screen grids, a signal grid and a non-signal grid disposed between said screen grids, said signal grid and non-signal grid being equidistant from said cathode but electrically insulated one from the other, and electrostatic means between said cathode and that one of said screen grids on the cathode side of said signal for changing the position of the electron beam relative to said signal grid and non-signal grid to change in one sense the engagement of said beam with said signal grid while simultaneously changing in the opposite sense and by an equal amount the engagement of said beam with said non-signal grid.

23,717
ABRASIVE BLOCK OR SEGMENT
Albert Shepard Titcomb, Hamden, Conn.
Original No. 2,501,422, dated March 21, 1950, Serial No. 96,476, June 1, 1949. Reissue No. 23,364, dated May 8, 1951, Serial No. 193,231, October 31, 1950. Reissue No. 23,558, dated September 30, 1952, Serial No. 275,178, March 6, 1952. This application for reissue May 7, 1953, Serial No. 353,707
23 Claims. (Cl. 51—209)



1. A bonded abrasive block shaped as a pseudo hollow cylindrical segment, formed between an inner arcuate surface of shorter and an outer arcuate surface of longer extent, said arcuate surfaces being perpendicular to an end surface and substantially equidistant throughout their course from a nonangular median, said inner and outer arcuate surfaces at their intersection meeting the nonangular median in an acutely angled substantially sharp end and wherein said outer arcuate surface is comprised of an arc extending from the formation of said sharp end to a point along said outer surface between the position of widest divergence of said arcuate surfaces and a position along said outer surface substantially two-thirds of the distance to said sharp end, and at such point merging into a flatter surface.

23,718
CASKET CARRYING TRUCK
William E. Barrett, Jr., and William E. Barrett, Sr., Aurora, Ind.
Original No. 2,593,717, dated April 22, 1952, Serial No. 152,084, March 27, 1950. Application for reissue March 23, 1953, Serial No. 344,262
9 Claims. (Cl. 214—75)



1. A truck body and hoist construction comprising a truck body, a series of vertically spaced horizontal rack rails mounted on said body, said body having an opening, said rails terminating in spaced relation to said opening, a hoist mounted in said body between said rails and said opening, said hoist including vertically disposed elevators on opposite sides of said openings, horizontal rails on said elevators selectively registrable with said rack rails, means interconnecting said elevators for synchronized movement, operating means for said elevator, each elevator including a pair of vertical channel members secured to said truck body, slides movable vertically in each channel member, said elevator rails being mounted on said slides, means for vertically moving said slides.

PLANT PATENTS

GRANTED SEPTEMBER 29, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,218
ROSE PLANT
Arthur Preston Howard, Sierra Madre, Calif., assignor to Howard & Smith, Montebello, Calif.
Application September 5, 1952, Serial No. 306,902
1 Claim. (Cl. 47—61)

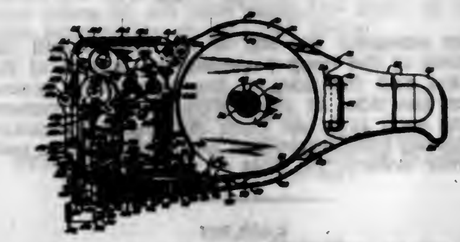
The new and distinct variety of hybrid tea rose plant, substantially as herein disclosed, characterized particularly by the combination of its tall, strong, upright growth; its very free blooming habit; its long, slender bud; and the medium pink color of its flowers as described.

PATENTS

GRANTED SEPTEMBER 29, 1953

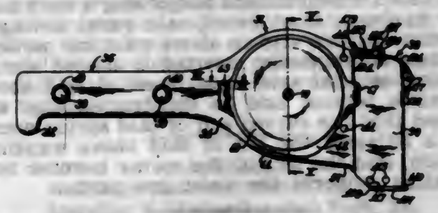
GENERAL AND MECHANICAL

2,653,316
HAMMER STAPLER
William R. Beckman, Chicago, and Charles E. Crooks, Evanston, Ill., assignors to Spotnails, Inc., Evanston, Ill., a corporation of Illinois
Application October 28, 1950, Serial No. 192,762
37 Claims. (Cl. 1—43.1)



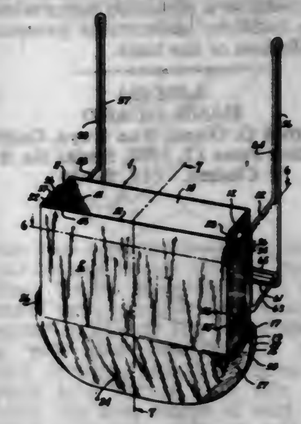
1. In combination in a hammer stapler, an elongated body comprising a rear handle section and a front head section with an intermediate magazine section intervening between the handle and front head sections and all of the sections being in line, said magazine section being disposed close to the head section and including means for reception of a substantial roll of metal staple blanks in a continuous strip, said magazine section including a passageway forwardly from the bottom portion thereof into said head section, and means disposed within the head section for severing and driving staples from the leading end of the staple blank strip responsive to wielding of the hammer stapler hammer-like for driving the staples.

2,653,317
HAMMER TYPE STAPLING MACHINE
William R. Beckman and Arthur G. Schilke, Chicago, and Charles E. Crooks, Evanston, Ill., assignors to Spotnails, Inc., Evanston, Ill., a corporation of Illinois
Application September 1, 1951, Serial No. 244,806
40 Claims. (Cl. 1—43.1)



1. In combination in a hammer stapler a manually engageable handle section, a driving head section, a magazine section between and connecting said driving head section to the forward end portion of the handle section, said driving head section having a staple driver at the front thereof and mounted in stationary relation to both the magazine and handle sections, the driver having a lower driving end disposed below the lowermost portion of the magazine section, a striker and anvil structure forming part of the head section and mounted for reciprocal movement rectilinearly relative to the driver and normally projecting substantially below said lowermost portion of the magazine section and below the lower end of the driver, and means for feeding staple means from the magazine section into driving position on said striker and anvil structure under the driving tip of said driver so that when the hammer stapler is wielded to strike a surface with the striker and anvil structure the latter and said driver will reciprocate for driving of a staple into the surface.

2,653,318
PORTABLE NAIL STRIPPER
Robert Cottar, Red Bluff, Calif.
Application August 31, 1950, Serial No. 182,576
4 Claims. (Cl. 1—49.7)

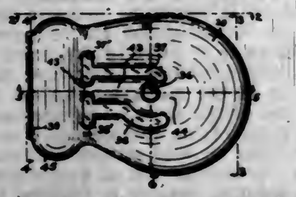


1. A nail stripper including in combination a hopper for containing nails adapted to be supported in a substantially upright position, a slot in the lower portion of the hopper for permitting nail shanks to project from the hopper and be withdrawn therefrom, said hopper having wing means extending from its opposite sides thereof, said wing means forming a downwardly narrowing support for retaining a substantial body of nails in the upper portion of said hopper with the lower portion of said means forming a restricted outlet for feeding a limited amount of nails from said body into the lower portion of the hopper.

2,653,319
PNEUMATIC BOXING GLOVE
Joseph Slisus, Seattle, Wash.
Application July 7, 1949, Serial No. 103,289
5 Claims. (Cl. 2—18)

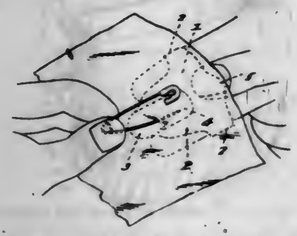
1. A pneumatic boxing glove comprising two oblong elastic bags positioned side by side in ad-

joining relation, each bag having a rounded forward end portion and two rounded lateral edge portions and a wrist portion, the marginal portions of the two bags being adhered together around the forward end and along both lateral edges leaving the two bags disconnected across the wrist providing a wrist opening; and adhered together sections connecting medial parts of the two side walls of each bag holding the medial parts of the two side walls of each bag relatively close together when the bag is inflated and leaving a relatively large peripheral air chamber in each bag outwardly from said adhered together medial



sections and extending around the forward end and along both lateral edge portions of each bag, the adhered together marginal edge portions of the two bags providing a hinge like marginal connection between the two bags around the forward end and along both lateral edges, whereby inflation of the two bags will cause the peripheral air chambers of the bags to press against each other and to tension and spread apart the medial portions of the bags thereby providing in the glove between the two bags a relatively large hand opening to receive a clenched hand without subjecting the hand to undesirable pressure resulting from inflation of the bags.

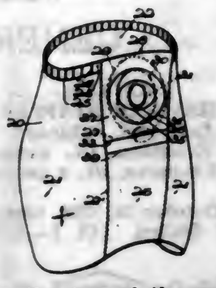
2,653,320
HAND GUARD
Harold G. Olson, Van Nuys, Calif.
Application June 17, 1952, Serial No. 294,019
3 Claims. (Cl. 2—20)



1. A guard to be held between the tips of the fingers of a hand and a fabric or the like body to protect the fingers from injury by pin, needle and the like; said guard comprising a substantially V-shaped plate having a front and back face, curved finger clips joined to the side edges of the plate at the wide end thereof and extending under the said back face, and an elongate channel formed in the front face of the plate from the apex and extending along the longitudinal center through the major part of the length thereof, the channel opening through the apex end of the plate and decreasing to zero depth at its other end.

2,653,321
FOUNDATION GARMENT
Henry M. Herbener, Thomasville, Ga.
Application May 9, 1950, Serial No. 160,970
15 Claims. (Cl. 2—36)

1. A girdle or like garment including a flexible front portion having a top, a flexible layer arranged upon one face of the front portion, a generally elliptical line of stitching connecting the front portion and layer and forming a generally elliptical pocket having a top and bottom and sides, the generally elliptical pocket having its long axis substantially horizontal, and a resilient hoop arranged within the pocket and having a top and bottom and sides, the top of the



hoop engaging the top of the pocket and the bottom of the hoop engaging the bottom of the pocket and the sides of the hoop being spaced from the sides of the pocket, the arrangement being such that the hoop may be substantially vertically compressed and its sides will move outwardly toward the sides of the pocket.

2,653,322
UNDERGARMENT
David Blair, Chicago, Ill.
Application April 12, 1952, Serial No. 282,016
4 Claims. (Cl. 2—36)



1. In an undergarment comprising a body portion having a front panel, said panel having a waistline portion and an above waistline portion, a single substantially inverted U shaped spring member secured said front panel at said above waistline portion and so constructed and arranged that the curved end of said spring member is adjacent the top of said above waistline portion, and the legs of the spring member terminating adjacent the waist line portion.

2,653,323
EXTENSION CONNECTION FOR BRASSIÈRES AND UNDERGARMENTS
Joseph Ganim, Brooklyn, N. Y.
Application September 11, 1951, Serial No. 246,139
3 Claims. (Cl. 2—42)

1. An extension for the torso girdling strap of a brassière or the like including a hook and eye,

said extension comprising a separate plurality of fabric filler strips, a fabric base strip having its side edges folded over those of the filler strips, stitching to hold said folded over edges in position, a plurality of eyelets spaced longitudinally along said strips in a plurality of rows, each eyelet passing through all of the filler strips, a pair of end pieces binding one end of the several strips,



hook members secured between said end pieces, one for each row of eyelets, and a U-shaped resilient wire having its side arms inserted between the uppermost filler strip and the turned over edges of the base strip, the arms of said wire terminating at said end pieces.

2,653,324
BABY BIB
Lorette C. McMahon, Chicago, Ill.
Application March 23, 1951, Serial No. 217,168
2 Claims. (Cl. 2—49)



1. A disposable bib comprising a relatively wide main paper body having a concave arcuate top edge and top corner portions, a strap member comprising a strip of thin malleable metal and a non-metallic cover on said strip, a first relatively heavy paper reinforcing tab immovably secured to one top corner portion of said main body, means immovably securing said strap member to said tab, and a second relatively heavy paper tab immovably secured to the other top corner portion, said second tab being formed with a slot adapted to receive the end portion of said strap member and said end portion being bendable to hook-shape to secure the strap member to the second tab.

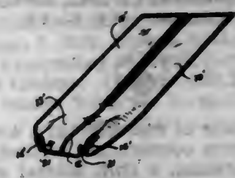
2,653,325
NECKTIE CONSTRUCTION
Angeline T. McCarthy, Oak Park, Ill.
Application May 6, 1950, Serial No. 160,509
2 Claims. (Cl. 2—148)

1. A one piece elongated lining member constituting the sole reinforced lining for a necktie so constructed that when the necktie is knotted, a dimple is formed immediately adjacent the knot, substantially midway between the side edges of the necktie, said lining being a single ply lining and being preformed and preshaped to permanently define therein an elongated fully circumscribed depressed portion, the width of said depressed portion extending across a substantial portion of the width of the lining, the portion of said lining defining said depressed



portion projecting rearwardly from the adjacent portions of said lining which circumscribe said depressed portion, and the portions of said lining which circumscribe and define said depressed portion being of substantially uniform cross-section thickness throughout.

2,653,326
TURBAN CAP
Agnes M. Geil, Brooklyn, N. Y.
Application May 19, 1950, Serial No. 162,889
1 Claim. (Cl. 2—196)



A turban cap comprised of two substantially rectangular blanks joined together along a portion of their length inwardly from one end to form a main body portion with front and side edges adapted to fit over the top of the head and providing two split substantially rectangular trailing tail portions extending from said main body portion and having their side edges contiguous with the side edges of said main body portion and said tail portions adapted to be crossed at the back of the head and to be extended forwardly about the sides of the head for securement together over the forehead, said main portion having an angularly disposed edge connecting each side edge with the front edge, and spaced apart cooperating separable fastening means disposed along each angularly disposed edge adjacent each end of said edge, said separable fastening means, when engaged, holding the body portion gathered along said angularly disposed edges, whereby to cup the main body portion about the forward part of the head.

2,653,327
ARTIFICIAL EYE AND IMPLANT
Edwin Lee Allen, Iowa City, Iowa, and James H. Allen, New Orleans, La.
Application May 31, 1951, Serial No. 229,453
4 Claims. (Cl. 2—13)

1. In a muscle-actuated replacement for an enucleated human eye, an implant of substan-

tially hemi-spherical shape having a smooth spherical surface providing for free turning thereof in the human orbit, said implant further having a substantially planar annular anterior surface, the outside diameter of which surface is substantially equal to the diameter of said implant and the inside diameter of which defines an opening, a muscle-end and suture-accommodating recess communicating with the anterior thereof at said opening, a plurality of circumferentially spaced passages communicating with



said recess and with the exterior of said implant spherical surface adjacent the anterior for receiving therein the cut sutured end portions of the rectus muscles of a natural eye, said implant when positioned in the human socket being adapted to be covered by the conjunctiva and Tenon's capsule so that the anterior surface of the implant and the conjunctiva and Tenon's capsule provide a substantially planar surface against which a prosthesis can be abutted for conjoint non-slipping movement therewith.

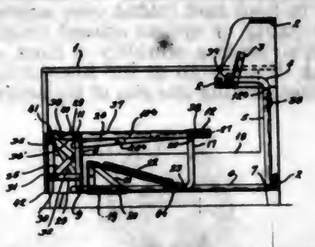
2,653,328
FABRICATION OF ARTIFICIAL EYES
Albert L. Andersen and John Donald Helmen, Minneapolis, Minn., assignors, by mesne assignments, to Precision Cosmet Company, Inc., Minneapolis, Minn., a corporation of Minnesota
Application September 22, 1945, Serial No. 617,960
2 Claims. (Cl. 3—13)



2. As an article of manufacture, an iris button for artificial eyes constructed entirely of plastic material comprising, a thin scleral section having a circular face area and having a concave outer surface with a small recess formed centrally therein, a coating of jet black thermoplastic material within said recess, a plurality of complete layers of plastic material superimposed on said concave surface cumulatively simulating the marking and colors of a natural iris, alternate of said layers being formed of coatings of color-containing plastic material and coatings of transparent plastic material, an iris cover section having a circular face area complementary to the face area of said scleral section and having a transparent convex exterior surface, said layers, said coatings and said face area being integrally welded together to form a button.

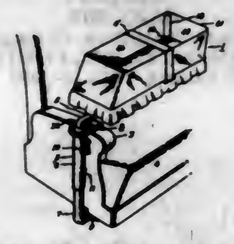
2,653,329
SOFA BED
Rudolph Coopersmith, Clayton, Mo.
Application October 11, 1948, Serial No. 53,783
7 Claims. (Cl. 5—29)

3. A sofa bed comprising a sofa frame; a foldable frame comprising a plurality of bar members pivoted together and forming said frame into a plurality of sections; a wire fabric; spring means for suspending said fabric from said bars and within said frame; means for pivoting one end of said frame to said sofa frame; a rigid front upholstery board frame secured to one of said sections and including a pair of bars extending across said foldable frame; means for laterally and vertically supporting a portion of said frame and upholstery board frame members for enabling said board supporting frame to support



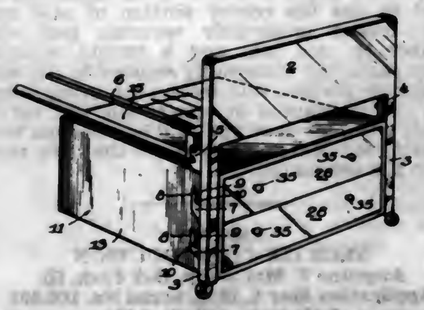
seat cushions; and spring means for supporting said wire fabric from one of said bar members for enabling the wire fabric to support seat cushions.

2,653,330
SEAT-ATTACHED BASSINET
Charles Nolan, Jacksonville, Fla.
Application September 27, 1951, Serial No. 248,540
7 Claims. (Cl. 5—94)



6. A bassinet for attachment to a seat arm structure, said bassinet comprising a baby-holding basket member, a clamp comprising a pair of seat-arm-structure-engaging shoes and an adjustable ratchet device to lock said shoes in predetermined adjusted relative position on said arm structure, and a pivotal member pivotally connecting said clamp and basket member.

2,653,331
BED WITH CHEST OF DRAWERS
Frank Wallen, Chicago, Ill., assignor to Superior Sleeprite Corporation, a corporation of Illinois
Application June 10, 1950, Serial No. 167,288
6 Claims. (Cl. 5—308)



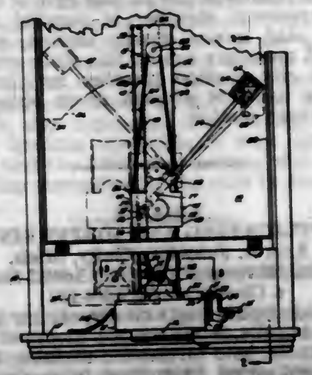
6. A combination, a bed having a footboard with a recess therein to receive a chest of drawers, a chest of drawers inserted within said recess in said footboard and connecting means extending only from opposed surfaces of said footboard and the forward portion of said chest of drawers connecting said chest of drawers and footboard together, said connecting means including a plurality of vertically aligned brackets and respective cooperating pins, said brackets each having vertically extending notches open at one end with said pins received in said notches, said brackets and pins extending from opposed surfaces of said footboard and chest of drawers to fixedly connect same together with the chest of drawers supported substantially in a horizontal position from only the forward portion of said chest of drawers.

2,653,332
FISHERMAN'S PLIER TYPE SHOT SPLITTING TOOL
Harry H. Precious, Wisconsin Rapids, Wis.
Application August 24, 1951, Serial No. 243,549
1 Claim. (Cl. 7—5.1)



In a shot-splitting fisherman's tool of the pliers type, a pair of pivotally connected handles; and first and second jaws rigid with the respective handles, the second jaw having a shot-supporting face, the first jaw being shorter in length than the second jaw for projection of the outer end of the second jaw beyond the outer end of the first jaw, the first jaw having at its outer end a splitting knife extending toward the second jaw, said knife tapering in the direction of the second jaw to terminate in a knife edge adjacent said face of the second jaw, the opposite, converging surfaces of said tapered knife being each formed with a continuous curve extending fully for the length of the knife from the base to said knife edge thereof with said curves of the converging surfaces of the knife being extended in the same direction, to impart a corresponding curvature to a split formed in a shot by said knife.

2,653,333
WINDOW-WASHING MACHINE
Meissey Bryzman, New York, N. Y.
Application June 3, 1949, Serial No. 96,866
3 Claims. (Cl. 15—103)



1. A window-washing apparatus comprising a supporting member adapted to be secured to the sill of a window to be washed, a horizontally disposed base member superimposed longitudinally of and connected to said supporting member for sliding longitudinal movement, an upstanding guide bar fixed on said base member, a vertically disposed control box including a front wall and a pair of side walls secured to the front wall arranged so that the front wall is parallel to and spaced from said guide bar with the side walls extending beyond said guide bar, means connecting said control box to said guide bar for reciprocatory movement therealong, said means comprising a toothed rack extending longitudinally along and secured to the face of said guide bar adjacent said front wall, another toothed rack extending longitudinally along each end edge of said guide bar and having one side edge secured to said guide bar and having the other side edge slidably engaged by the adjacent side wall, rotatable pinions carried by the portions of said side walls inwardly of the face of said guide bar remote from said front wall and in meshing engagement with said other racks, and a rotatable gear intermediate said front wall and the face of said guide bar adjacent thereto and supported from one of said side walls and in meshing engagement with said toothed rack, an upstanding cleaning element operatively connected to said control box, a manually operated means operatively connected to said base member for effecting the sliding movement of the latter, and a second manually operated means operatively connected to the said control box for effecting the reciprocatory movement of the latter.

2,653,334
EXPANDABLE CONDENSER TUBE CLEANER
Thomas J. Bay, United States Navy
Application September 30, 1947, Serial No. 777,999
3 Claims. (Cl. 15—104.14)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A tube cleaner comprising a spindle arranged to be rotated at high speed, a removable and replaceable hose of yieldable material fixedly secured at one end about the spindle, and means rotatable with said spindle, for slidably mounting and securing the other end of said hose to said spindle, said hose having a plurality of longitudinal slits extending radially therethrough intermediate its ends whereby the edges of said slits provide squeegee action under centrifugal force when the tube cleaner is rotated.

2,653,335
WAX APPLICATING AND DISPENSING UNIT
Axel A. Johnson, Holly, Mich.
Application January 17, 1949, Serial No. 71,206
6 Claims. (Cl. 15—118)

1. A wax applicating and dispensing unit comprising a handle having a bow-shaped portion formed therein, an applicator fixed to an end of said handle and resilient clasping means fixed to said handle within said bow-shaped portion, said resilient clasping means being shaped to conform to the surface of a dispensing container, and a

dispersing container held by said clasping means normal to said handle and in a substantially up-



right, non-dispensing position when the handle is in one position and in an inverted, dispensing position when said handle is turned.

2,653,336
SPLIT HEAD MOP HAVING MECHANICAL SQUEEZING MEANS
William E. Berndsen, Cleveland Heights, Ohio, assignor of three-sixteenths to Richard Albert Berndsen and three-sixteenths to Betty Jane Jorgensen
Original application October 8, 1945, Serial No. 620,893, now Patent No. 2,486,102, dated October 25, 1949. Divided and this application April 20, 1949, Serial No. 88,503
4 Claims. (Cl. 15—119)



4. A mop comprising opposed backing plates pivotally connected at their proximate edges, a pad of liquid-absorbent material detachably connected to the said backing plates, one of said plates being provided with a socket to which a handle is connected and the opposite plate being provided with laterally spaced pivotal supporting members, a yoke having arms the ends of which are pivotally connected to the said pivotal supporting members and having an outer end, a link, pivotally connected at one end to the said socket and at its other and outer end to the outer end of said yoke, a link and means operatively connecting its lower end to the outer end of the yoke and to the outer end of the former link, a lever pivotally connected intermediate of its ends to the upper end of the second mentioned link and being pivotally connected to said handle, said lever having a free end movable in an arc towards and away from the said backing plates for actuating said links and yoke to move said backing plates towards and away from each other.

2,653,337
COMBINATION MOP, SCRUBBER, AND WRINGER
Thomas T. Bathurst, Miami, Fla.
Application April 24, 1950, Serial No. 157,690
1 Claim. (Cl. 15—119)



A combination mop and scrubber comprising a frame having a planar central section and end members extending at right angles to said central section, said end sections having slots formed therein at right angles to said central section, a drum having a porous, resiliently compressible covering disposed between the end sections of said frame, a bail the respective arms of which extend inwardly through said slots and rotatably engage the ends of said drum, whereby said drum may be rotated about its axis and moved transversely to its axis, a lever engaging said bail and cooperating with said frame whereby said drum may be selectively positioned and secured out of contact with said central frame section, in which position said drum is freely rotatable, or in compressing contact with said central frame section, in which position said drum is secured against rotation, and a planar compression member having pivot members at the opposite ends thereof carried for pivotal movement in slots formed therefor in said end frame sections parallel to said central frame section, whereby when said pivot members are in one end of said slots said compression member is parallel with and adjacent said central frame section, and when said pivot members are in the other end of said slots said compression member may be pivoted to engage the side of said drum opposite said central frame section.

2,653,338
WAX APPLICATING AND DISPENSING UNIT
Axel A. Johnson, Holly, Mich.
Application November 12, 1950, Serial No. 195,430
4 Claims. (Cl. 15—131)

1. A fluid applicating and dispensing unit comprising a handle, a bifurcated member attached to said handle, said bifurcated member including two resilient arms extending from said handle and having an opposing action toward each other, an applicator connected to the free ends of said resilient arms, and a dispensing container detachably held between and on its periphery

by the opposing action of said resilient arms, said container being positioned in a substan-



tially upright non-dispensing position when said handle is in one position and in an inverted dispensing position when said handle is turned.

2,653,339
MAKE-UP HOLDER AND APPLICATOR
Charles A. Mureau, Van Nuys, Calif.
Application July 14, 1947, Serial No. 760,814
2 Claims. (Cl. 15—131)



1. A device of the character described including, a tubular body of material, means carrying said material including a case receiving the material and a tubular guide entering the material, and a unit including an applicator received in the material and operable to project from the material, a shank slidably carried in the guide and operating the applicator, and a stem connected with the shank, normally located at the exterior of the case and entering the guide to operate the shank, the applicator cooperating with the case and limiting operation of said unit in one direction and the stem cooperating with the case and limiting movement of the unit in the opposite direction.

2,653,340
BRUSH WITH ELEMENT OF THE CHANNEL STRIP TYPE
Henry Cave, Hartford, Conn., assignor to The Fuller Brush Company, Hartford, Conn., a corporation of Connecticut
Application March 10, 1948, Serial No. 14,685
3 Claims. (Cl. 15—199)

2. The combination in a brush, of a metal strip which has longitudinal edges and is transversely shaped along longitudinal lines to form a rear wall and two forward converging side walls constituting an open-front longitudinal channel with a narrow neck at the front and which is further transversely shaped along longitudinal lines to form two opposite integral longitudinal supporting flanges extending laterally from the front portions of the respective converging side walls and substantially parallel to the said rear wall, the said flanges being relatively narrow and having laterally exposed longitudinal edges



parallel throughout their lengths to the said channel, and the said flanges being engageable with a suitable longitudinal holder for supporting the strip on the holder, a longitudinal core wire at least partly within the channel of the strip, and a layer of fibers folded around the core wire within the channel and having the end portions of the fibers projecting in generally forward directions through the said neck between the converging side walls, the said folded layer of fibers being in engagement with and gripped by the sides of the said channel neck.

2,653,341
SPONGE MOP AND THE LIKE
Ida J. Nicoli, Framingham, Mass.
Application February 11, 1950, Serial No. 143,786
5 Claims. (Cl. 15—244)



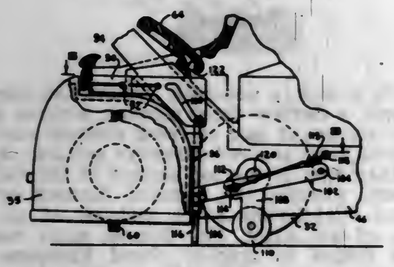
1. In a mop, a generally rectangular cleaning element, a flexible sheet member secured to the upper surface of said cleaning element and having area in its secured operative position slightly less than that of the top surface of the cleaning element, whereby the cleaning element extends beyond the flexible sheet member at all four edges of the latter, said flexible sheet member being folded to provide plural thickness flap portions at each of its two opposite side edges, and each said flap portion having a beaded longitudinal edge and having its plural thicknesses stitched together at its opposite ends, a rigid backing-plate element engaging the flexible sheet member between said flap portions and terminating short of the opposite ends of said flexible sheet member, said backing-plate element having two upstanding side flanges and each said flange being inserted between said plural thicknesses of a said flap portion with said end stitches of the flap portion restraining relative longitudinal movement between the flange and the flap portion, said beaded edges of the flap portions being turned inward over said flanges, and handle mounting means removably engaging generally flatwise against a central portion of said backing-plate element and holding said beaded edges of the flap portions in their positions turned inward over said flanges.

2,653,242
BODY SUPPORT AND COVER CLAMP FOR VACUUM CLEANERS
Pierre Bonin and Xavier Randria, Paris, France, assignors to General Electric Company, a corporation of New York
Application February 8, 1951, Serial No. 209,998
In France February 16, 1950
5 Claims. (Cl. 15—327)



1. A tank type vacuum cleaner comprising a hollow elongated body with an open end, an end cap removably closing said open end, a pair of runners pivotally secured at one end to said body near the end away from the cap and supporting said body in spaced relation from a horizontal supporting surface when in one pivoted position with respect to said body, said runners extending alongside the body toward the end cap and engaging said end cap when in said one pivoted position to hold said end cap in place on said body, and said runners, when in another position with respect to said body, releasing said end cap and supporting said body vertically in spaced relation from the supporting surface.

2,653,243
SUCTION CLEANER CONVERSION ARRANGEMENT
Harry G. Kunkler, Bloomington, Ill., assignor to Eureka Williams Corporation, Detroit, Mich., a corporation of Michigan
Application May 5, 1947, Serial No. 745,935
6 Claims. (Cl. 15—333)



2. A suction cleaner having a body with a nozzle at the forward end thereof, an agitator operatively associated with said nozzle, front and rear wheels supporting said body for movement on a surface covering with said nozzle and agitator operatively positioned relative to said surface covering, a suction creating fan, a motor for driving said fan and agitator, a suction air passageway between said fan and nozzle, said body having a converter port above said nozzle and connected to said suction air passageway for receiving a converter element to convert the cleaner for off-the-floor cleaning, a cover movably mounted on said body and arranged for closing or opening said port, nozzle elevating means movably mounted on said cleaner body and movable between a retracted position above the lower edge of said front wheels and a projected position below the lower edge of said front wheels, said means upon movement to said projected position elevating said nozzle and agitator to an inoperative position relative to said surface covering, a manually operable movable locking member engageable with said converter port cover for securing the same in its closed position, and means connecting said nozzle elevating means to said converter port cover locking member for movement therewith for effecting shifting movement of said nozzle elevating means from one of its said positions toward the other position thereof upon movement of said converter port cover locking member into and out of engagement with said converter port cover.

2,653,244
TRAVERSE ROD AND SUPPORTING BRACKET
John N. Graber, Middleton, Wis., assignor to The Graber Company, Middleton, Wis., a partnership
Application July 15, 1949, Serial No. 104,927
3 Claims. (Cl. 16—94)



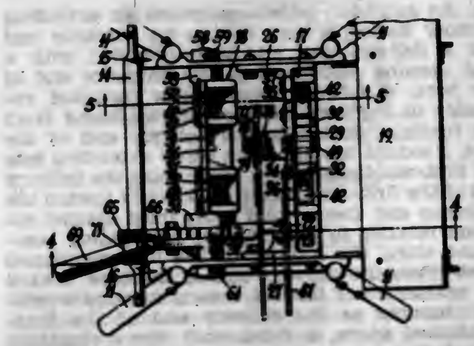
1. In a drapery installation of the type including a rod having a rear wall and a forwardly projecting substantially horizontally disposed flange; a bracket for detachably supporting the rod at any point throughout its length including a bracket arm having an outwardly directed hook, the hook including an inwardly directed bill terminating short of the arm, said arm being adapted to fit flat against a surface and said rod being associated with the bracket by tilting the rod for moving the flange into the hooks, the spacing of the bill of the hook from the arm permitting the rod to be swung back on the hook against the arm.

2,653,245
FISH-SCALING CYLINDER CONSTRUCTION
Nathan Kaplan, Atlanta, Ga.
Application December 27, 1950, Serial No. 202,878
1 Claim. (Cl. 17—5)



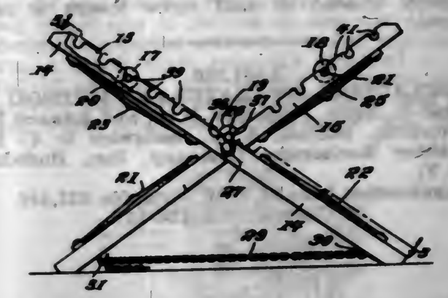
In a fish scaling machine, a scaling cylinder having threaded openings formed in the ends thereof, said cylinder having blade grooves extending longitudinally thereof, blades having teeth, disposed within said grooves, the teeth of said blades extending beyond the surface of the cylinder adapted to contact fish moving through the machine, removing scales therefrom, said blades having laterally extended right-angled ends formed with elongated openings, disposed transversely of said ends, said laterally extended ends resting on the ends of the cylinder, the openings of the cylinder registering with the openings of the laterally extended ends, discs positioned over the ends of the cylinder clamping the laterally extended ends of said blades against the ends of the cylinder, said discs also having openings aligning with the openings of the ends of the cylinder and laterally extended ends, and securing screws extending through the aligning openings and threaded in the openings in the cylinder ends, independently securing said blades in position on the cylinder.

2,653,246
APPARATUS FOR REMOVING TENDONS FROM FOWL
Stephen J. Ograbisz, Hamburg, N. Y.
Application April 20, 1951, Serial No. 223,035
6 Claims. (Cl. 17—11.3)



6. In a machine for pulling tendons from fowl, a supporting structure including a pair of spaced parallel rails, a fixed frame member having an upper edge disposed transversely of the rails and connected thereto, said frame member being formed with a pair of spaced and substantially upright V-shaped notches having their apices below the upper edge of the frame member, pairs of angularly disposed clamping jaws positioned on the frame member and along the edges of the notches, said jaws being formed on their inner edges with downwardly sloping teeth, a rotatable frame member mounted transversely between the rails in front of and spaced from the fixed frame member, said rotatable member being formed with spaced V-shaped notches substantially aligned with the notches of the fixed frame member, pairs of angularly disposed clamping jaws formed with downwardly sloping teeth secured along the edges of the notches of the rotatable frame member, a ratchet mechanism connected to the rotatable frame member to rotate the same in a direction increasing the distance between the notches and jaws of the fixed and rotatable frame members, and a releasable pawl mounted on the fixed frame member and extending forwardly therefrom to the ratchet mechanism for normally forestalling reverse rotation of the rotatable frame member.

2,653,247
COLLAPSIBLE HOG CRADLE
George S. Diekman, Arlington, Iowa
Application June 6, 1952, Serial No. 292,111
1 Claim. (Cl. 17—44)



A hog skinning cradle comprising bars pivotally connected together at points midway between the ends thereof, said bars having spaced notches in the upper edges of the upper portions of said bars, diagonally disposed braces interconnecting said bars together, a center roller adjacent the intersection of said bars mounted on a shaft and positioned with ends of the shaft extended beyond the ends of the roller, said roller positioned with the extended ends of the shaft in notches of said bars, and side rollers mounted on shafts and having their ends extended through the ends of their rollers and seated in the notches in the upper edges of the upper sections of the bars, said side rollers being arranged adjacent to the upper portions of said bars, the shaft supporting said center roller being longer than the shaft supporting said side rollers, eyes on the lower inner edges of certain of said bars, chains connected to said eyes, and hooks spaced from said eyes and engaging said chains, said cradle adapted to be moved into and out of folded position.

2,653,248
EXTRUSION APPARATUS UTILIZABLE FOR RECLAIMING RUBBER
Joseph C. Elgin, Princeton, N. J., and Edward F. Sverdrup, Buffalo, N. Y., assignors to U. S. Rubber Reclaiming Company, Inc., Buffalo, N. Y.
Application July 12, 1948, Serial No. 38,474
16 Claims. (Cl. 18—12)



1. Apparatus useful for the reclaiming of rubber and the like comprising screw means having threads thereon which in a plurality of longitudinally spaced portions thereof are abrupt, for forcing material along the chamber hereinafter specified, and in a plurality of portions alternating with the first-named portions, being rounded for smearing and working the material against the chamber wall, one of said spaced portions preceding the first of said alternating portions, and one of said spaced portions succeeding an-

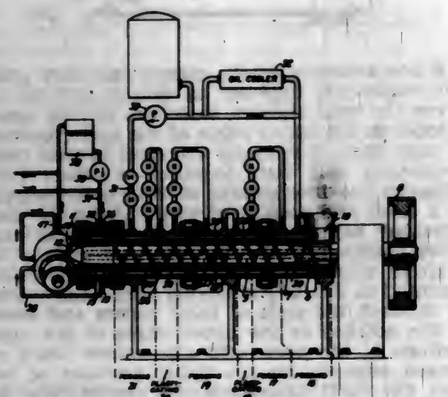
other of said alternating portions, and still another of said spaced portions being intermediate two of said alternating portions, a chamber enclosing the screw means and having a feed opening near one end, and a restricted orifice at the opposite end of said chamber through which the material treated by said screw means is extruded.

2,653,349

RECLAIMING APPARATUS AND METHOD

Joseph C. Elgin, Princeton, N. J., and Edward F. Sverdrup, Buffalo, N. Y., assignors to U. S. Rubber Reclaiming Company, Inc., Buffalo, N. Y.

Application June 25, 1951, Serial No. 233,446
21 Claims. (Cl. 18—12)



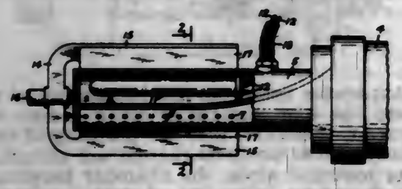
1. Extrusion apparatus comprising a chamber having an inlet and an outlet, rotary means within said chamber for subjecting material therein to mechanical working while forcing it through said chamber toward said outlet, and a discharge head beyond said outlet and providing an elongated restricted discharge annulus, the inner walls of said annulus being formed by an adjustable pin with sloping sides and the outer walls being on a member provided with sides sloping in the same direction but of less extent, enabling the extent of said restrictions and the length of the restricted annulus to be varied.

2,653,350

APPARATUS FOR FORMING PELLETS OF PLASTIC MATERIAL

Rene P. Piperoux, Radburn, N. J., assignor to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

Application August 11, 1950, Serial No. 178,773
4 Claims. (Cl. 18—12)



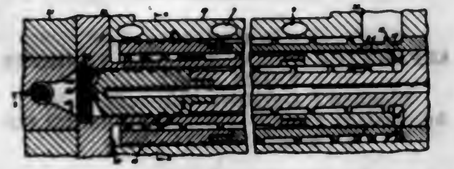
1. In an apparatus for forming pellets of a plastic material, the combination with an extruder, of a tubular member operatively connected to said extruder, said tubular member being angularly adjustable with respect to said extruder and having a plurality of orifices in the peripheral surface thereof, heating means in said tubular member, a septum extending longitudinally of said tubular member and substantially the full length thereof for directing the plastic material towards said orifices and for preventing the plastic material from coming into contact with said heating means, and means extending axially of said tubular member and movable over the surface thereof to sever into pellet size plastic material issuing from said orifices.

2,653,351

APPARATUS FOR ADVANCING AND WORKING ELASTOMER COMPOUNDS

George E. Henning, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application December 12, 1951, Serial No. 261,299
8 Claims. (Cl. 18—12)



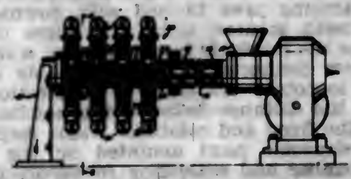
1. An extruder, which comprises an extruding cylinder having a bore having an entrance end and a delivery end and also provided with a feed opening positioned at the entrance end of the bore, a tubular stock screw mounted rotatably in the bore for feeding compound from the feeding opening to the delivery end of the bore, a second tubular stock screw extending into the first-mentioned stock screw from the delivery end of the first-mentioned stock screw toward the entrance end thereof and being fixed against rotation relative to the cylinder for feeding compound along the interior of the first-mentioned screw from the delivery end of the bore toward the entrance end thereof, means forming a mixing chamber at the delivery end of the first-mentioned screw, a third stock screw rotatably mounted in the second-mentioned screw for forcing compound along the interior of the second-mentioned screw toward the delivery end of the bore, means forming a mixing chamber at the delivery end of the second-mentioned screw, and an extruding head mounted at the delivery end of the bore, at least one of the stock screws being provided with compound-working ribs extending along a portion thereof.

2,653,352

EXTRUDER

George E. Gliss, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application December 28, 1951, Serial No. 263,726
6 Claims. (Cl. 18—13)



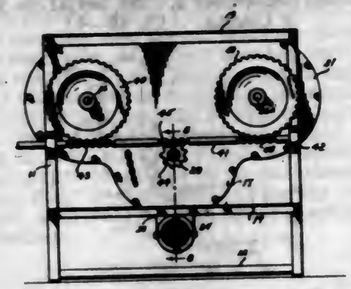
1. An extruder, which comprises an extruding head having a passage therethrough and also provided with a tapped counterbore at the entrance end of the passage, a die mounted in the delivery end of the passage, a core tube holder having a core passage extending along the axis thereof mounted in the entrance end of the passage, said holder also being provided with a socket at the entrance end thereof eccentric to the axis of the core passage and a counterbore concentric to the axis thereof at the exit end thereof, a core tube mounted in the last-mentioned counterbore, an internally tapped annular plug mounted in the threaded counterbore in the extruding head, and a cylindrical plug having a passage therethrough eccentric to the longitudinal axis thereof threaded through the annular plug into the eccentric socket in the core tube holder, said plugs and said core tube holder being so constructed and arranged that when the cylindrical plug abuts the end of the eccentric socket, the passages in the core tube holder and the cylindrical plug are offset one from another.

2,653,353

FEEDING MACHINE FOR COTTON AND THE LIKE

Will A. Herrmann, Houston, Tex.

Application March 2, 1949, Serial No. 79,277
2 Claims. (Cl. 19—67)



1. A feeding machine for cotton comprising a housing having an open end, a hopper for receiving the cotton disposed above and in communication with the open end of the housing, a pair of shafts journaled in the housing in spaced apart relationship to provide a material gap therebetween, a roller carried by each shaft, a plurality of radially extending arms on each roller, a worm wheel on each of said shafts, an air conduit in the housing, an additional shaft rotatably mounted in the housing at a point below and intermediate said first mentioned shafts, a roller on said last mentioned shaft, a plurality of radially extending arms on the last named roller, a worm wheel on said shaft, a driven element having a plurality of spaced worm gears thereon, each worm gear being adapted to mesh with each worm wheel, means to rotate said driven element so that rotary movement will be imparted to the first mentioned rollers so that the arms thereof feed the cotton to the second mentioned roller whereby said arms on the second mentioned roller will move the cotton into the air conduit, and means to create an air stream through the conduit to remove the cotton therefrom.

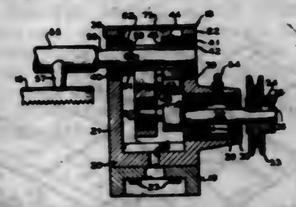
2,653,354

COMB BOX MECHANISM

Marvin W. Odom, Roswell, Ga.

Application March 8, 1949, Serial No. 80,900
1 Claim. (Cl. 19—106)

A comb box comprising pair of spaced walls, bearings mounted in said walls in axial alignment, a cylindrical sleeve of substantially uniform outside diameter, rotatably mounted in said bearings, the interior bore of said sleeve being of a size to receive the reduced end of the rock shaft of a doffer comb, a rocker arm removably mounted on said sleeve for axial movement relative thereto and having means for fixedly securing said rocker arm in position on said sleeve, a link pivotally connected to the free end of said rocker arm, a crank shaft rotatably mounted in one wall of said box and having its crank throw pivotally connected to the other end of said link, said crank producing oscillation of said sleeve



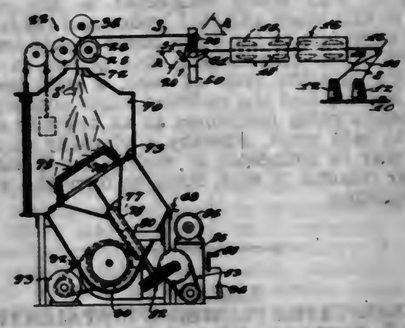
upon rotation thereof, said sleeve being provided with a circumferential groove on its inner periphery, a split ring mounted in said groove and being of such dimensions as to permit the reduced end of the rock shaft of the doffer comb to freely slide through the bore of the sleeve, a collar surrounding said sleeve, a set screw threaded in said collar and projecting through said sleeve for pressing said split ring against the doffer rock shaft whereby movement of the sleeve is imparted to said doffer rock shaft, said sleeve being adapted to be inserted in position by axial movement through either side wall.

2,653,355

METHOD FOR PROCESSING MINERAL FIBERS

Harold W. Eastman, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware

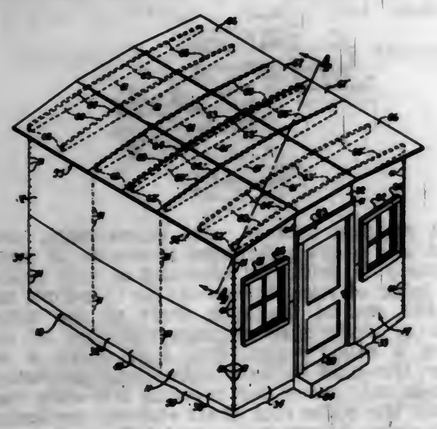
Application August 30, 1950, Serial No. 182,249
14 Claims. (Cl. 19—148)



13. A method of producing a mat of attenuated glass fibers including the steps of conveying a continuous linear group of fibers bearing an interfiber bonding material to a fiber flexing zone; of directing the group of fibers into engagement with a fiber flexing instrumentality to establish relative movement of some of the fibers relative to others to reduce the effectiveness of the interfiber bond; of severing the group of flexed fibers to predetermined short lengths; of collecting the severed lengths to form a mat composed of a mass of individual fibers and bonded groups of fibers; and of controlling the effectiveness of the fiber

flexing instrumentality to fracture the interfiber bond for varying the density of the collected mass of severed fibers.

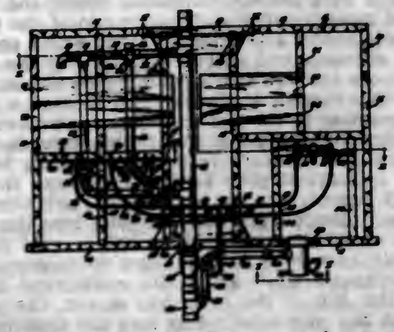
2,653,256
BUILDING CONSTRUCTION
Melvin O. Brannen, Waynesville, N. C.
Application December 7, 1951, Serial No. 260,250
3 Claims. (Cl. 20—2)



1. A structural unit for building construction comprising upper and lower beams, the inner edges of said beams being straight, the outer edges of said beams each being cut to define at least three straight edges the centermost of which is parallel to the inner edge of said beam and the endmost of which extend inwardly toward said inner edge of said beam, a plurality of studs having their opposite ends secured to said beams to hold said beams in spaced relation to each other, the outer edges of said studs being flush with the outer edges of said beams, sheets of wall board connected to the outer edges of said studs and said beams and conforming in curvature to the outer edges of said beams to form three substantially flat panels to said unit, the opposite ends of each of said beams being beveled and the endmost studs connecting said beams being positioned at an angle to conform to said bevel, whereby a plurality of said units may be connected to each other in right-angular relation to each other to form the walls of a building.

2,653,257
PREFABRICATED PLUMBING INSTALLATION
James F. Sanders and Joseph W. Sanders, Sioux Falls, S. Dak., assignors to Sanders Sanitary Company, Sioux Falls, S. Dak., a corporation of South Dakota
Application June 7, 1949, Serial No. 97,564
5 Claims. (Cl. 20—4)

1. In a prefabricated plumbing installation, a composite planar wall assembly comprising a pair of supporting wall frameworks and an upright drain stack interposed between said frameworks, supply and drain lines secured within said frameworks and detachably connecting said frameworks, and tie members detachably joining said wall frameworks rigidly with said drain stack, whereby said wall frameworks including



said supply and drain lines may be separated from said drain stack.

2,653,258
FLOORING
Herbert G. Macdonald, Monrovia, Calif., assignor to Amco Development Company, Monrovia, Calif., a partnership
Application September 5, 1950, Serial No. 183,128
2 Claims. (Cl. 20—7)

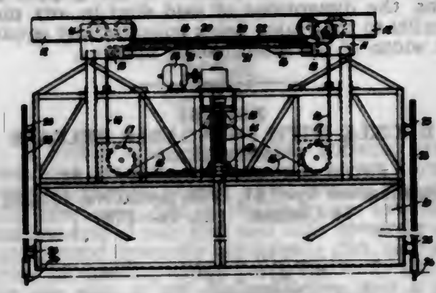


1. A rectangular parquet flooring block for forming with other similar blocks a covering for a subfloor and comprising a flexible backing strip coextensive with the block, a plurality of juxtaposed wood pieces affixed to the backing strip and arranged thereon in a plurality of rows abutting but not rigidly fastened at their sides so that the block is flexible in a direction across the rows, each of the rows being composed of a plurality of juxtaposed pieces having abutting but unjoined planar ends so that the block is flexible in the direction of the rows, with the abutting ends in one row staggered with respect to the abutting ends in an adjacent row so that the flexibility in the direction of the rows is limited, the block tending to conform in both directions to the irregularities of a subfloor on which it is laid with the flexible backing strip downward.

2,653,259
SLIDING DOOR
Arthur Thomas Charles Barrows, Hitchin, England, assignor to Geo. W. King Limited, Hitchin, England, a British company
Application January 10, 1951, Serial No. 205,286
In Great Britain September 29, 1948
6 Claims. (Cl. 20—19)

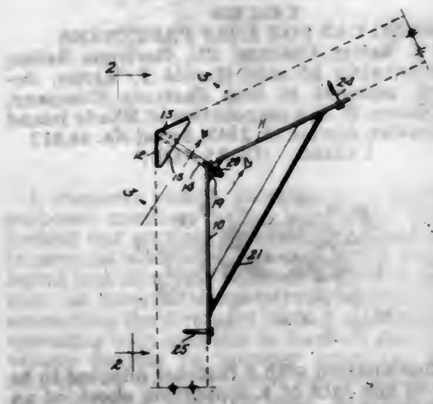
1. A sliding door assembly comprising a door movable horizontally back and forth along a predetermined path into and out of a closed position in front of and registering with a door opening, means connected to said door and operative to effect a downward vertical movement of said door subsequent to the arrival of the latter at said

closed position and an upward vertical movement of said door prior to the removal of the latter from said closed position, a bar element disposed adjacent each of the vertical leading and trailing edges of said door and extending parallel to said edges, at least two link elements pivotally connected to each of said bar elements and the adjacent vertical edge of said door and swingable about axes parallel to the plane of said door so that vertical movement of said door relative to said bar elements is accompanied by relative movement of said door and bar elements in the direction normal to said plane of the door, latch



elements projecting rearwardly from said bar elements, sealing means facing forwardly around the door opening, and keeper brackets fixedly disposed at each side of the door opening, said keeper brackets opening to one side to receive said latch elements therein when said door is moved to its closed position and prevent downward movement of said bar elements relative to said keeper brackets so that, when said door is moved vertically downward after arrival at said closed position, said door is displaced rearwardly into engagement with said sealing means around the door opening.

2,653,260
KNEE FOR RIGID FRAMES
Charles H. Woodworth, Portland, Oreg., assignor to Timber Structures, Inc., Portland, Oreg., a corporation of Delaware
Application July 31, 1950, Serial No. 176,822
2 Claims. (Cl. 20—92)



1. A knee for joining an upright post to a beam disposed at an angle to the top of the post and having an end surface engaging an end surface of the post in miter-joint fashion, comprising an elongated underplate consisting of a vertical portion adapted to lie against the inner surface of the post and an inclined portion adapted to lie against the lower surface of the beam, said underplate having an opening therethrough at the apex of the dihedral angle formed by said portions, a kneecap comprising a vertical portion adapted to lie against the outer surface of the post, an inclined portion adapted to lie against the upper surface of the beam, a gusset extending across the internal dihedral angle formed by the vertical and inclined portions of the kneecap at each side of the kneecap in position to engage adjacent portions of the sides of the post and beam, a pair of crossbars extending laterally between said gussets and lying in planes parallel to a plane dividing said internal dihedral angle into two dihedral angles, a bolt welded to said crossbraces and extending through said opening in the underplate adjustably to join said kneecap to said underplate, and a brace extending across the internal dihedral angle of the underplate and fastened at its ends to end portions of said underplate.

2,653,261
SPLASH MIXER FOR DENTAL CASTINGS
Domenick Pellegrini, Yonkers, N. Y.
Application September 16, 1949, Serial No. 116,109
1 Claim. (Cl. 22—9)



A splash mixer for producing investment molds for dental castings which comprises a container having a threaded upper end, a cap flanged and threaded to be engaged with the upper end of the container, a metal lining on the cap with a dependent central apertured portion constituting a sprue form, said sprue form being adapted to be filled with a composition, a wire stem extending into said sprue form, a wax pattern on the lower end of the wire, a basket having an upper flange resting on the upper edge of the container and being perforated along its bottom and sides and disposed around the sides and below the bottom of the pattern, a gasket of ring-shape form resting on said flange to be gripped between the flange and the cap, said container being adapted to receive an investment slurry of water and powder, said pattern being adapted to be coated by said investment material when said container is agitated.

2,653,262
CLIP AND METHOD FOR APPLYING IT
Ernest E. Workman, Chicago, Ill.
Application July 7, 1949, Serial No. 103,415
4 Claims. (Cl. 24—22)

1. A clip for securing an end of tie material, comprising, a plate member having an opening extending inwardly from its edge, a side wall of the opening having projections extending into the opening, and an intersection of the end wall of the opening and a surface of the plate form-

ing an edge for shearing tie material, the width of said opening at the bottoms of the projections being proportioned with respect to the structure of the tie material to permit enforcement of the tie material laterally into the opening, and the



width of said opening at the tops of the projections being proportioned with respect to the structure of the tie material to securely embed said tops of the projections into the enforced tie material.

2,653,263
BEDCLOTHES HOLDER
Claude Lievsay, Jr., Ventura, Calif.
Application May 15, 1950, Serial No. 162,028
1 Claim. (Cl. 24—72.5)



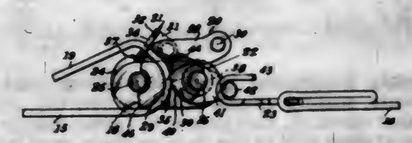
A bedclothes holder comprising a footboard for cooperation with the vertical foot end of a mattress with which it is to be used, a leaf means, hinge means securing said footboard to said leaf means, spring means cooperating between said footboard and said leaf means yieldably urging said footboard to rotate toward said leaf means to a position substantially less than a right angle thereto, whereby, when said leaf means is placed under the foot end of the mattress and held by the mattress against the mattress supporting surface with said footboard forming approximately a right angle therewith against the vertical foot end of the mattress, said spring means causes said footboard to exert a clamping force against the mattress vertical foot end and hold any bedclothes extending therebetween, said spring means being a pair of coil springs secured between the outer edges of said leaf means and the corresponding edges of said footboard a substantial distance from said hinge means, whereby said footboard may be rotated approximately 180° downwardly away from the mattress foot end.

2,653,264
GRIPPING SLIDER TYPE BUCKLE WITH FASTENER ELEMENT ON SLIDER
Philip D. Becker, Hingham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application January 13, 1950, Serial No. 138,452
3 Claims. (Cl. 24—77)



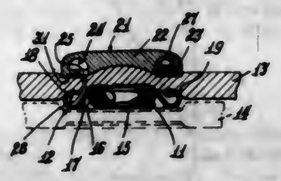
1. A buckle assembly, comprising a buckle frame having elongated strap-receiving openings and an elongated opening intermediate the strap-receiving openings extending laterally thereof, and a strap-gripper element, retaining means integral with the frame and spaced from the gripper element retaining the gripper element on one side of the frame in longitudinal slidable relationship thereto, said gripper element having a snap fastener stud formed thereon and extending through the intermediate opening and protruding from the other side of the frame to permit the assembly to be attached to a supporting member disposed on said other side and to limit longitudinal movement of the gripper element, the dimensions of said stud in any plane parallel to the frame being substantially equal to the width of the intermediate opening.

2,653,265
BUCKLE WITH SWINGABLE RELEASE MEMBER
Edwin C. Elsner, Glendale, Calif.
Application April 21, 1950, Serial No. 157,231
14 Claims. (Cl. 24—170)



10. In a buckle to connect two strap ends, two wedge members having opposed parallel strap-gripping faces, a pivotal connection between the wedge members, one member being rotational on the pivotal connection relative to the other, the gripping face of said rotational member being formed to progressively approach the gripping face of the other member, manually operable swingable means carried by the mentioned other member, having camming engagement with the rotational member, to rotate the latter to move said progressively formed gripping face away from the gripping face of said other wedge member to release a strap end gripped therebetween, and a portion on the rotational member adapted to connect to a second strap end.

2,653,266
PRONG CAP FOR SNAP FASTENERS
Harold J. Reiter, Chicago, Ill.; Gertrude Reiter, administratrix of said Harold J. Reiter, deceased, assignor to Rau Fastener Company, Providence, R. I., a corporation of Rhode Island
Application August 18, 1948, Serial No. 44,817
1 Claim. (Cl. 24—216)



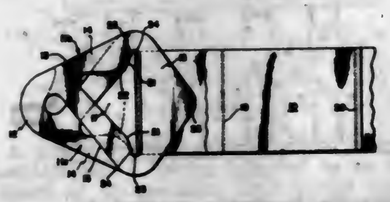
The combination with a fastener adapted to be secured to one face of a supporting sheet, of an attaching part for securing the fastener part to said supporting sheet, said attaching part being arranged against the other face of said supporting sheet and including an attaching ring, a plurality of prongs extending from one face of said ring and integral with the inner peripheral edge thereof, said prongs being adapted to pierce the supporting sheet and having fastening engagement with the fastener part, a plurality of prongs extending from the other face of said ring and integral with the inner peripheral edge thereof, and a body forming a part of the attaching part in which said last-named prongs have fastening engagement.

2,653,267
CLUTCH CLASP CONSTRUCTION
Jacob H. Orchoff, Providence, R. I.
Application June 19, 1951, Serial No. 232,307
2 Claims. (Cl. 24—216)



1. A clutch clasp for sudded buttons, ornaments and the like, comprising a clutch formed from a sheet metal blank and having a flat centrally apertured disk, a resilient arm extending from one side of said disk and bent upwardly and then inclined upwardly across said disk, said arm having an opening with a notch vertically aligned with one side of the disk aperture, and a second resilient arm extending from the other side of the disk and bent upwardly and having two spaced arm portions on opposite sides of the first resilient arm and inclined upwardly across said disk, said second resilient arm having a notch vertically aligned with the other side of the disk aperture, the outer surfaces of the flat disk and the bent upwardly portions of the resilient arms having protruding ribs, said disk having diametrically opposed slots, and a cover extending over the upper edges of the resilient arms and having sides and tabs at the lower ends of the sides, said tabs being locked in said disk slots.

2,653,268
HOOK FASTENER
Edwin C. Elsner, Glendale, Calif.
Application October 17, 1950, Serial No. 190,472
6 Claims. (Cl. 24—242)



1. Fastener means, comprising: a pair of superposed members having oppositely extending hooked end portions adapted in hooked position to serve as mousing for each other; a pair of integral legs diverging from each hooked end portion; an integral elongate bridging head portion connecting the divergent ends of said legs and cooperating with said legs to form an eye; a transversely flexible tie member extending through said eyes of the superposed members and around said bridging head portions, whereby the tie member under tension forces acts to restrain the members against lateral movement to positions with the hooked end portions separated from each other, and detent means releasably opposing movement of the flexible member away from said bridging head portion, when said tension forces are released.

2,653,269
ADJUSTABLE WIDTH STRAP END
Emil Rodriguez, New York, N. Y., assignor to Jacoby-Bender, Inc., New York, N. Y., a corporation of New York
Application May 4, 1950, Serial No. 159,893
24 Claims. (Cl. 24—265)



1. A variable width strap end comprising a looped portion having a slot angularly disposed with respect to the ends of said looped portion, a tubular member rotatable within said looped portion and movable axially into and out of one end thereof, and a finger on said member receivable in said slot, rotation of said member within said looped portion causing said finger to move within said slot and the angularity of said slot causing said member to telescope into and out of said looped portion as the finger moves therewithin, thereby varying the width of said strap end, an edge of said slot being provided with a series of steps, said finger cooperating with said steps so as to provide for stepwise adjustment of the width of said strap end.

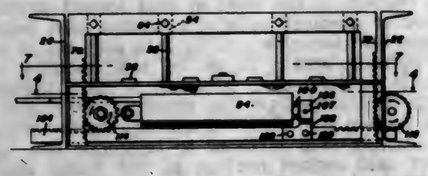
2,653,270
EJECTION MOLDING APPARATUS
Harry P. Hoopes, Berkeley, Calif., assignor to Pabco Products Inc., San Francisco, Calif., a corporation of Delaware
Application November 25, 1950, Serial No. 197,579
10 Claims. (Cl. 25—120)



10. Molding apparatus comprising a tubular mold member; a hollow mold core within said tubular mold member spaced therefrom to pro-

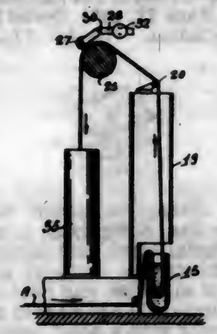
vide a mold cavity between it and the member; a fluid distributing member on which said core is mounted; said fluid distributing member being adjacent an end of the mold cavity and having fluid drainage passages, and also a fluid inlet passage in communication with the inside of said core and a fluid outlet passage; a pipe mounted on said fluid distributing member in communication with said outlet passage and extending into said core; and means for ejecting mold material from said mold cavity comprising a piston slidably mounted in said mold cavity, and a plurality of actuating rods connected to said piston and extending through said drainage passages; said drainage passages being materially wider throughout their length than the width of said actuating rods to provide ample open space clearances between said passages and said rods for unobstructed flow of fluid therethrough.

2,653,271
CASTING EJECTOR
Helmer V. Kruse, Douglas, Ariz.
Application September 28, 1950, Serial No. 187,238
8 Claims. (Cl. 25—120)



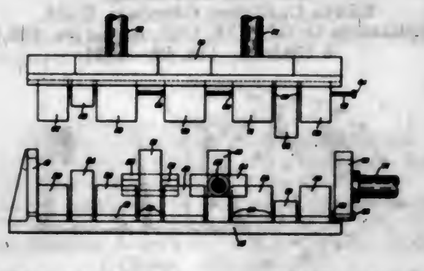
1. A casting ejector comprising a first frame having end and longitudinal members providing walls for a mold, a plurality of transversely extending bars having their ends secured to said side members at points intermediate the open ends of said first frame, core means detachably connected to preselected of said bars, an ejector frame mounted within said first frame, an ejector wall disposed within said first frame and in sliding contact with the members and providing a bottom wall for the mold when in its upright position, said ejector wall being fixedly secured in spaced relation to one end of said ejector frame, said first and ejector frames being reciprocably mounted with respect to each other, and power actuated means for effecting relative movement between said first frame and ejector frame when in a second position inverted to the upright position whereby the casting within the mold may be ejected, said power actuated means including at least one power cylinder having one end attached to said first frame exteriorly of said longitudinal members, horizontally disposed rack means disposed in parallel relation to said power cylinder and mounted for reciprocating movement on said first frame, the plunger of said power cylinder being connected for effecting longitudinal movement of said rack means upon actuation of said power cylinder, gears mounted on opposite ends of said first frame and operatively engageable with said rack means for rotation upon longitudinal movement of said rack means, said ejector frame having integrally formed therewith vertically disposed rack means operatively engageable with said gears whereby rotation of said gears effects movement of said ejector frame with respect to said first frame.

2,653,272
NYLON FISH NETTING
Roland Johnson, Drummondville West, Quebec, and Robert W. Kolb, Drummondville, Quebec, Canada, assignors to Drummondville Cotton Company Limited, Montreal, Quebec, Canada, a corporation of Canada
Application October 6, 1950, Serial No. 188,671
In Canada February 18, 1950
2 Claims. (Cl. 28—76)



1. Fish netting, comprising, uncoated nylon twine knotted with tight single weaver's knots, the nylon having a heat-modified elastic memory effectively confined to a period subsequent to knot formation, the knots being substantially evenly spaced apart and intervened by precise lengths of twine and the knots being set to retain substantially the form and relationship to the twine they were given when knotted.

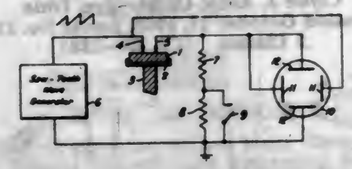
2,653,273
COLLAPSIBLE DIE FOR FORGING CRANKSHAFTS
Charles A. Brauchler, Canton, Ohio
Application December 27, 1947, Serial No. 794,159
4 Claims. (Cl. 29—6)



1. Dies for forging a crankshaft comprising a stationary bed, longitudinal ribs at the longitudinal edges of said bed, a transversely disposed wall at one end of the bed, a series of normally separated die blocks independently longitudinally movable upon said bed between the ribs thereon, a vertically movable head above the bed, means for moving said head toward and from the bed, a series of normally separated, independently, longitudinally movable die blocks carried by the head and corresponding with the die blocks upon the bed to form cooperating pairs of upper and lower die blocks, a pair of transversely disposed die blocks independently longitudinally movable upon the bed, one of said transversely disposed die blocks being also transversely movable relative to the other, a ram engaging an endmost die block of each series for moving the die blocks of each series into contact with each other and against the end wall, and

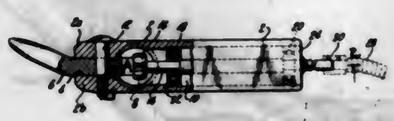
means for moving said transversely movable die block relative to the other transversely disposed die block.

2,653,274
ELECTRIC SEMICONDUCTOR
Kenneth Albert Matthews and Charles De Beismaison White, London, England, assignors to International Standard Electric Corporation, New York, N. Y.
Application March 18, 1950, Serial No. 150,412
In Great Britain April 1, 1949
5 Claims. (Cl. 29—25.3)



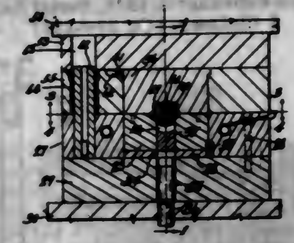
1. An electro-forming process for a crystal triode which comprises passing a relatively small direct current between the emitter and collector electrodes of the triode, the base electrode being left unconnected, and then momentarily increasing the said direct current to a relatively large value, in such manner that after electro-forming, the current-voltage characteristic curve of the emitter-collector path, when measured with the emitter electrode polarised in such direction that it makes low resistance rectifier contact with the semi-conducting material, has no portion with a negative slope.

2,653,275
TOOL
William H. Alexander, Brooklyn, N. Y.; Helen Alexander, executrix of William H. Alexander, Sr., deceased
Application March 16, 1951, Serial No. 216,011
3 Claims. (Cl. 29—90)



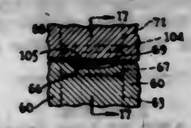
1. A power driven burnishing tool comprising in combination a holder adapted to be held in the hand of an operator, said holder having a longitudinal cylindrical chamber therein extending from one end of the holder and communicating at its other end with a transverse slot formed in the other end of the holder, a rotatable shaft journaled in said chamber, a disk eccentrically mounted on said shaft for rotation thereby, an element bifurcated at one end and polished at its other end for vibratory engagement with a work piece to be burnished, and means for pivotally mounting said element in said slot with the furcations thereof embracing said disk with the polished end extending freely beyond the holder whereby rotation of said shaft causes said element to oscillate about its pivotal mounting, the part of said element extending from the holder being bent away from the plane of the part thereof within the holder, and being generally tongue-shaped with a tapering extremity highly polished over a substantial area, the edges and tip being rounded.

2,653,276
METHOD OF MAKING UNITARY MAGNETIC POLE PIECES
William A. Fletcher, Daleville, and Carl L. Clevenger, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 2, 1949, Serial No. 85,146
2 Claims. (Cl. 29—155.5)



1. In the method of making a unitary magnetic pole piece, having a shank portion thereon, from a flat blank of soft steel, the steps comprising, bending a flat blank of soft steel to an arcuate form, simultaneously piercing a central hole therein, centering the blank in a die by placing a centering rod through said hole, holding the peripheral portions only of the blank by supporting the blank at its peripheral portions only thereof, swaging and drawing metal from said supported blank into the central portion thereof forming a shank, removing the thus formed blank, and finally coining the opposed reduced outer portions of the arcuate portion thereof to taper them outwardly from the center.

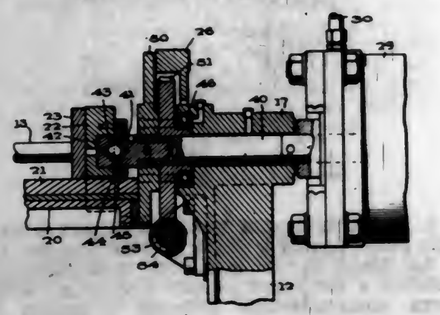
2,653,277
METHOD FOR FORMING METAL POWDER INTO A FLUID GUIDING BODY
Richard P. Seelig, Elmhurst, N. Y., assignor to American Electro Metal Corporation, Yonkers, N. Y., a corporation of Delaware
Application September 2, 1947, Serial No. 771,637
4 Claims. (Cl. 29—156.8)



1. In the method of forming a fluid-guiding shaped body, such as a compressor blade, having generally curved longitudinally extending opposite side surfaces of a certain width and at least one longitudinal edge having a thickness less than half the maximum thickness of its center region, the procedure comprising compacting a metallic powder mass into a porous compact of materially smaller width than said shaped body having generally flat opposite edge surfaces and with the thickness of at least one edge region of the compact being greater than the thickness of the corresponding longitudinal edge of said shaped body, sintering said porous compact at an elevated sintering temperature for increasing its strength, thereafter applying further forming pressure against the opposite side surfaces of said sintered compact for laterally displacing the sintered powder mass of said one edge region thereof for forming said compact into a sintered porous shaped body of a shape substantially corresponding to said fluid-guiding body of desired width and thereafter infiltrating the sintered

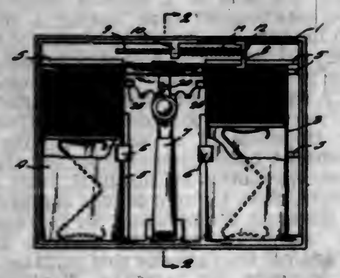
shaped porous body with an infiltrant metal of lower melting temperature than the metal of said compact for increasing the density and strength of said body.

2,653,378
APPARATUS FOR HOLDING BOOKS
John H. Esak, Camden, N. J., assignor to Haddon Bindery, Inc., Camden, N. J.
Application February 3, 1947, Serial No. 726,945
2 Claims. (Cl. 29—238)



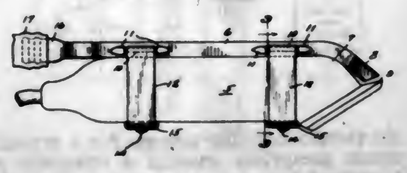
1. A machine for holding books while the edges thereof are treated comprising a mobile frame, a book clamp mounted on the frame for rotation about its longitudinal axis, said clamp including a work supporting shelf, a stationary jaw at one end of said shelf and a movable jaw on the shelf movable relative thereto toward and away from the stationary jaw, and means mounted on said frame for moving the movable jaw into and out of work clamping position, said means comprising a pneumatic cylinder, a piston actuated therein, a piston rod connected with the piston and in axial coincidence with the axis of rotation of the book clamp, conical ball seats disposed in facing relation with one in the rear face of the movable jaw of the clamp and the other in the forward end of the piston rod, and a ball engaged in both of said seats and constituting a thrust bearing between the piston rod and the movable jaw clamp, and manual means for effecting bodily rotation of the book clamp, the thrust bearing maintaining the clamp pressure while permitting rotation of the clamp.

2,653,379
RAZOR AND BLADE CHANGER
James M. Austin, Old Westbury, N. Y.
Application May 23, 1950, Serial No. 163,739
2 Claims. (Cl. 30—40)



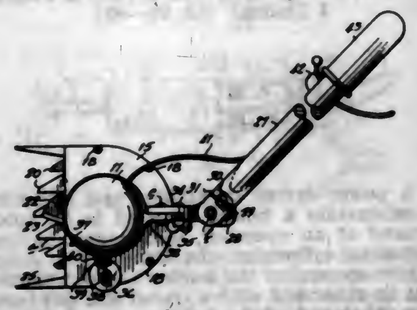
1. The combination with a razor comprising a back and a guard, means yieldably holding the back and guard together in blade holding relation, the back having an upper flange overlying the guard to form a cap and an aperture at the back edge of the flange for receiving a key to grip the back and pull it away from the guard for releasing a blade, of a blade changer having razor holding means comprising a key adapted to fit in the said aperture and hold the razor, and magazine holding means positioned for holding new and used blade magazines in alignment for effecting a blade change in the razor.

2,653,380
APPARATUS FOR REMOVING THE CUT HAIR FROM HAIR CLIPPERS
Clyde J. Atha, Cambridge, Ohio
Application October 17, 1952, Serial No. 315,372
2 Claims. (Cl. 30—133)



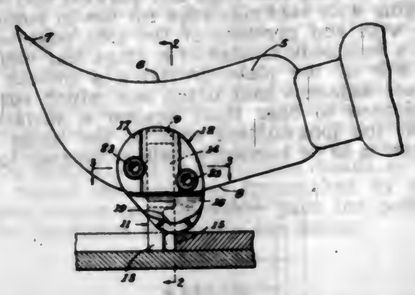
1. A hair removing apparatus comprising an elongated body portion adapted to be positioned along the upper surface of hair clippers, one end of said body portion being curved laterally providing a nozzle disposed adjacent to the cutting blades of the clippers, securing members extending longitudinally of the side edges of said body portion, and adjustable straps secured to said securing members adapted to extend around the clippers securing the body portion to said clippers.

2,653,381
GRASS EDGER AND TRIMMER
Harry V. Rooke, Fort Worth, Tex.
Application April 11, 1949, Serial No. 86,830
1 Claim. (Cl. 30—206)



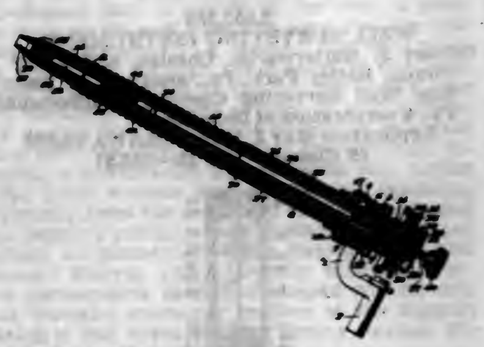
In an electric trimmer for lawns and hedges having an electric motor with a shaft, in combination, a bracket arranged on the housing of said motor, a mounting plate on said bracket having a journal therein for said shaft, a cutter plate secured to and spaced parallel from said mounting plate and having a plurality of serrations formed on the operative edge thereof, a rotary blade operatively arranged on said shaft between said plates, a guide projecting from either side of said serrations, a band arranged about said motor having a bracket integral therewith and projecting therefrom, a handle secured to said bracket and having means for adjusting the same to different angles in alignment with respect to the shaft of said motor and transversely thereof.

2,653,382
COMBINATION KNIFE
Donald T. Twiss, Los Angeles, Calif.
Application August 26, 1950, Serial No. 181,603
8 Claims. (Cl. 30—299)



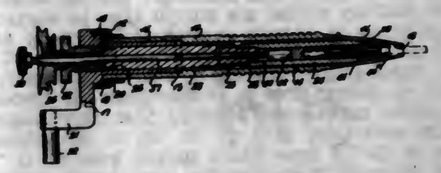
1. The combination with a knife blade having a slot formed therein and extending from the back edge thereof, of an elongated cutter adjustably extending into said slot and projecting beyond said back edge, the width of the cutter fitting said slot and the cutting edges of the blade and cutter being coplanar, and members on opposite sides of the blade and engaged with the opposite sides of the cutter to clamp the latter in adjusted position.

2,653,383
DENTAL ENGINE HANDPIECE
Wilmer P. Uhler, Tottenville, N. Y., assignor to The S. S. White Dental Manufacturing Company, a corporation of Pennsylvania
Application September 3, 1949, Serial No. 114,002
5 Claims. (Cl. 32—26)



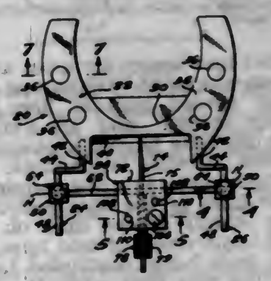
1. A dental engine handpiece comprising a sheath, having a forward bearing, a support for said sheath, means arranged to removably engage said sheath with said support, an elongated axially adjustable bearing in said support, a tool driving spindle mounted to rotate in said bearings and having a collar mounted medially thereon and engaged therewith solely by friction and cooperative with the forward end of said elongated bearing to maintain said spindle engaged with said forward bearing, the inner end of said spindle being reduced in diameter to provide an axially extended flange having diametrically opposite notches in its free edge, and a driving pulley mounted on said spindle and having axially projecting keys slidingly engaged in said notches and insuring their contemporaneous rotation.

2,653,384
DENTAL HANDPIECE
John C. Shotton, Lakewood, Ohio
Application June 21, 1952, Serial No. 294,330
1 Claim. (Cl. 32—26)



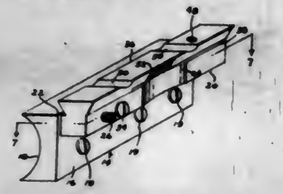
A dental hand piece comprising an elongated casing having at one end a conical nose and provided at its other end with an external flange, said casing having a conical bore in its nose communicating at its large end with a cylindrical bore extending toward the other end of the casing and communicating with a counterbore in said other end of the casing, a sleeve interfitting said counterbore and provided with an externally enlarged portion engaging against the external flange of the casing, means for detachably maintaining said casing and sleeve assembled, said sleeve having a portion of its interior threaded, an exteriorly threaded tubular adjusting nut screwed into said sleeve and provided with a cylindrical bore extending from its outer end and communicating with a conical bore portion at its inner end; and a chuck carrying spindle unit mounted in said casing and having a conical end rotatably interfitting the conical bore in the nose of the casing, a cylindrical portion rotatably interfitting said sleeve, a conical portion rotatably interfitting the conical bore portion of said adjusting nut, and a reduced cylindrical portion rotatably interfitting the cylindrical bore of said nut.

2,653,385
DENTAL PARALLELING APPARATUS
Samuel Kay, New York, N. Y.
Application September 16, 1952, Serial No. 309,792
14 Claims. (Cl. 32—67)



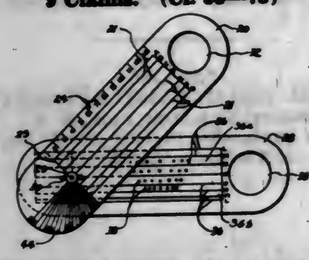
1. Apparatus for the parallel guidance of dental tools, comprising a support adapted to be frictionally engaged to the patient's teeth, said support having a cutaway portion at the forward part thereof to provide clearance for a dental tool associated with said apparatus, guiding means positioned externally of the patient's mouth for the parallel guidance of dental tools, and means associated with said support and mounting said guiding means for movement in a generally horizontal plane transversely of the patient's teeth.

2,653,286
ADJUSTABLE TELESCOPIC SIGHT MOUNT BASE
James L. Winton, Cherry Grove, Oreg.
Application June 17, 1952, Serial No. 293,885
4 Claims. (Cl. 33—56)



1. An adjustable telescopic sight mount base comprising a single block of material having a pair of transversely spaced, longitudinal slits opening inwardly from opposite ends of the block to divide the same into a body adapted for connection to a firearm, a tongue support member integral with said body, and a tongue integral with said tongue support member and adapted for supporting a telescopic sight mount, one of said slits intervening between the body and tongue support member and lying in a vertical plane for effecting adjustment of the tongue support member and tongue laterally of the body, and the other slit lying in a horizontal plane and intervening between the tongue support member and tongue, for effecting adjustment of the tongue vertically of the tongue support member.

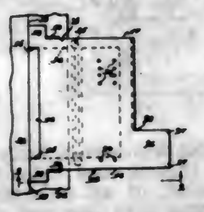
2,653,287
LAYOUT INSTRUMENT
James Arthur Cameron, Steveston, British Columbia, Canada
Application May 6, 1949, Serial No. 91,691
9 Claims. (Cl. 33—75)



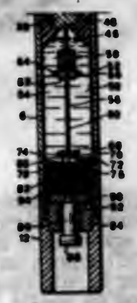
1. A lay-out instrument for pipes and the like comprising an elongated base having a plurality of unequally spaced parallel lines extending longitudinally thereof, and an arm pivotally mounted on the base having a plurality of unequally spaced parallel longitudinal lines extending at right angles to a line running through its pivot, the lines of the base and of the arm representing equally spaced lines on pipe surfaces curved transversely of said lines, and each of said arm lines being positioned to reach at least one of the base lines when the arm is set at any operative angle in relation to the base, whereby movement of the arm changes the angles of all its lines to the base lines.

2,653,288
COMBINATION DOOR AND JAMB GAUGE
William C. Cassady, Vancouver, Wash.
Application October 5, 1951, Serial No. 249,995
3 Claims. (Cl. 33—197)

1. A gauge of the character described comprising a substantially rigid plate having a longitudinal side edge extending from end-to-end thereof provided with an elongated hinge leaf receiving notch formed therein and extending to adjacent the ends of said side edge, said notch having an inner straight edge disposed parallel to said side edge and parallel end edges merging with said side edge for use in conjunction with end portions of the side edge to locate a longitudinal edge of a hinge leaf mortise, one side of the plate providing a smooth flat surface adjacent said notch and which surface is adapted to bear flush against a surface in which the longitudinal edge of the hinge leaf mortise is to be located, a pair of tongues forming an integral part of said gauge and disposed at an angle to the plane of the gauge and extending from the other side thereof, and said tongues having corresponding edges facing toward said longitudinal side edge and offset relatively to the longitudinal edge of said notch in a direction away from said side edge and being spaced equal distances from said side edge, said tongues being disposed beyond the ends of the notch and said tongue edges being disposed perpendicular to the plane of the plate and being adapted to engage a side of a door for locating the straight edge of the notch along an edge of the door and parallel to the door sides for correctly locating a longitudinal edge of a hinge leaf mortise in the door edge.

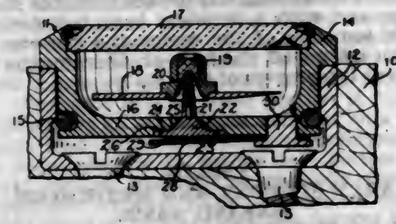


2,653,289
WELL SURVEYING INSTRUMENT
Gilbert J. Butterworth, Chester, and Einar T. Young, Ridley Park, Pa., assignors to Sperry-Sun Well Surveying Company, Philadelphia, Pa., a corporation of Delaware
Application May 3, 1948, Serial No. 24,806
15 Claims. (Cl. 33—205.5)



1. A well surveying instrument comprising a casing having a chamber therein, means providing a socket in said chamber, an electrically conductive liquid in the chamber, a floating pendulum in the chamber having a pivot point buoyed by said liquid into said socket, said pendulum including magnetized means providing a compass and a plurality of electrically conducting points at its lower end having a fixed relationship with said compass, means providing a closure for the bottom of said chamber, the last mentioned means comprising a bundle of substantially parallel conductors, insulated from each other, and presenting to the liquid in the chamber a mosaic of conducting areas and presenting at its outer face a corresponding mosaic of substantially coplanar conducting areas, the first mentioned mosaic lying substantially in a spherical surface having as its center said socket, and having slight clearance with the conducting points of the pendulum, means for supporting a record member in contact with the second mentioned mosaic, and means providing flow of electrical current through the pendulum and the points thereof, said liquid, conductors of said bundle, and said record member and its supporting means, so that said record member may be marked by electrolytic action in accordance with the position of the pendulum relative to the casing.

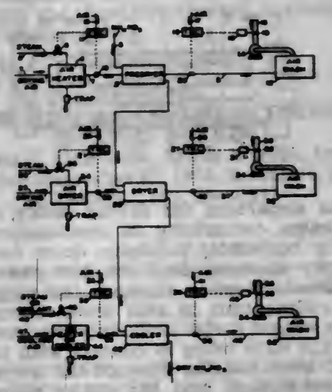
2,653,290
GUN COMPASS
Ezekiel Field White, West Hartford, Conn., and Michael J. LaViano, Westwood, N. J.; Madge B. White and Hartford National Bank and Trust Company, executors of said Ezekiel F. White, deceased
Application January 5, 1949, Serial No. 69,293
2 Claims. (Cl. 33—223)



1. A gun compass comprising a substantially cup-shaped case, a needle in the case, a pivot pin upon which said needle is supported for free swinging movements, a support for said pivot pin projecting through the bottom of the case, a leaf spring secured at the bottom of the case and engaging the lower surface of said support and urging it upwardly, the bottom of said case being provided with an opening therethrough including a downwardly flaring recess and having a flat lower surface surrounding and extending outwardly from the periphery of said recess, and said support having a substantially cone-shaped portion complemental to the flaring recess and disposed therein, and a laterally extending portion surrounding said cone-shaped portion and said laterally extending portion of the support having a flat upper surface resting against the flat lower surface of said case.

2,653,291
METHOD FOR DRYING AMMONIUM NITRATE AND LIKE MATERIALS
Edward Edmunds, Jr., Albuquerque, N. Mex., assignor to Phillips Petroleum Company, a corporation of Delaware
Application February 1, 1951, Serial No. 208,923
1 Claim. (Cl. 34—13)

As a method for drying granule ammonium nitrate containing water a three stage process which comprises a predrying stage, a drying stage and a cooling stage, with the temperature of drying air in each stage being automatically controlled before contact with said granule ammonium nitrate, and with the rate of flow of said drying air past said granule ammonium nitrate being regulated automatically in each stage by controlling the temperature of said drying air after contact with said granule ammonium nitrate automatically in response to and to compensate for any variation, and wherein the temperature of said drying air before contact with said granule ammonium nitrate is maintained at 75° C. in said predrying stage, 145° C. in said drying stage, and 21° C. in said cooling stage, and wherein the temperature of said drying air after contact with said granule ammonium nitrate is maintained at 65° C. in said predrying stage, 75° C. in said drying stage, and 37° C. in said cooling stage, and wherein said granule ammonium nitrate is introduced into said predrying stage at a temperature of 75° C. and containing 3.5 to 4.5 weight per cent water, and wherein said granule ammonium nitrate is withdrawn from said predrying stage and introduced into said drying stage at a temperature of 65° C. and containing substantially 2.75 weight per cent water, and wherein said granule ammonium nitrate is withdrawn from said drying stage and introduced into said cooling stage at a temperature of 80° C. and containing substantially 0.5 weight per cent water, and wherein said granule ammonium nitrate is withdrawn from said cooling stage at a temperature of 38° C. and containing substantially 0.3 weight per cent water.



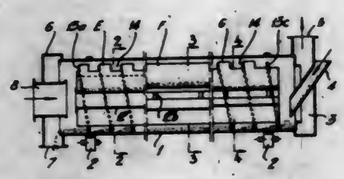
2,653,292
FOUNDRY DRYING OVEN
Earl W. von Hofen, Pittsburgh, Pa., and Fred R. Whitney, Lorain, Ohio, assignors to United States Steel Corporation, a corporation of New Jersey
Application June 11, 1951, Serial No. 230,962
9 Claims. (Cl. 34—104)



1. A drying oven comprising side and end walls, a floor and a removable cover spanning said side walls, said cover including a layer of thermal insulation and a bottom spaced therebelow, vertically spaced warm-air supply and return flues

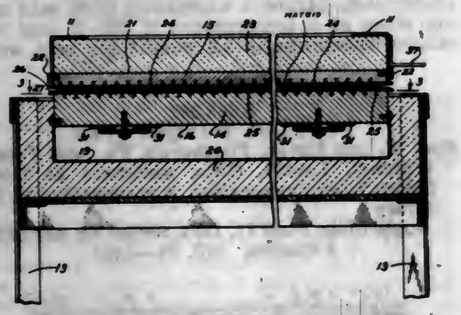
extending along one of said side walls, ports spaced along the top of the upper flue, openings in said bottom registering with said ports, said bottom and floor having inlet and outlet ports distributed thereover, respectively, and transverse exhaust passages below said floor communicating with the lower flue.

2,653,393
ROTARY DRIER, KILN, AND THE LIKE
Gustav Bejner, Stockholm, Sweden
Application December 12, 1950, Serial No. 200,347
In Sweden September 1, 1950
12 Claims. (Cl. 34—137)



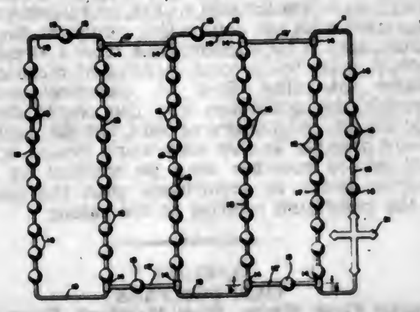
12. An apparatus for drying sticky materials by hot gases, comprising, in combination, a substantially horizontal rotatable drum for feeding the sticky material and the hot gases in one longitudinal direction through the same, and a loosely rolling unit in said drum, comprising a helically wound metal strip, only the feeding surface of the strip being in contact with the sticky material when passing through the lower portion of the revolution, and the entire strip surface being in contact with the gas when passing through the upper portion of the revolution.

2,653,394
MATRIX
Arthur E. Nelson, Euclid, and Hans G. Stadtler, Rocky River, Ohio, assignors to NEA Service, Inc., Cleveland, Ohio, a corporation of Delaware
Application May 26, 1950, Serial No. 164,462
4 Claims. (Cl. 34—143)



1. A drying table comprising a first plate having a grid formed in the top portion thereof, a second plate having a grid formed in the bottom portion thereof, the grooves defining each grid opposing the lands of the remaining grid when the plates are in vertically juxtaposed relationship, said grooves being continuous to the edges of said plates respectively, electrical heating apparatus for said plates and blankets of yieldable, porous material attached to the surfaces of said grids, said grids and said blankets defining a drying press.

2,653,395
PERMANENT ROSARY
James J. Cummings, Hanley Hills, St. Louis, and Anthony J. Shimkus, St. Louis, Mo.
Application September 19, 1950, Serial No. 185,648
5 Claims. (Cl. 35—23)



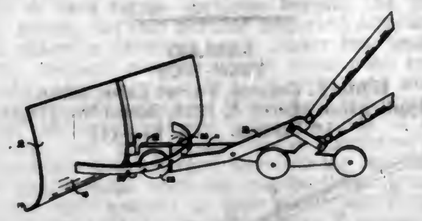
1. A permanent rosary device comprising a collapsible frame including a plurality of sections and interconnecting links pivoted thereon, said sections and certain of said links being made of rods having fixed protuberances thereon in the form of beads, said beads being arranged in sequences with at least one decade sequence in each section and with a terminal bead between each decade sequence of the device and the one next to it for setting off one from another, for the recitation of the prayers of the rosary.

2,653,396
ARCH SUPPORT AND METHOD OF MAKING SAME
Morris M. Gottlieb and Julius J. Gottlieb, Washington, D. C.
Application September 25, 1947, Serial No. 776,122
4 Claims. (Cl. 36—71)



1. An arch support adapted to be inserted in the shoe of the wearer and comprising a plate shaped to the proper configuration for the support or correction needed; said plate comprising a plurality of coalesced layers of fibrous glass webs impregnated with a thermoset and polymerized non-condensing resin, said resin being one that in its unset unpolymerized state is capable of setting after heating to a temperature of not over about 150° C. and subjection to pressure of not over 15 pounds per square inch, said support being reinforced internally with one or more elongated strips of fibrous glass material impregnated with a quantity of the above-described resin, said strips being disposed between certain of the layers of impregnated webs and coalesced therewith, said strips extending longitudinally of the support, bridging the shank portion, and terminating adjacent the heel and ball portions of the support, to provide additional bracing means therefor.

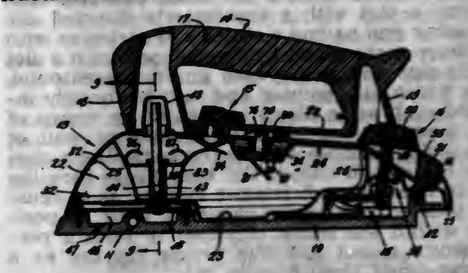
2,653,397
SNOWPLOW ATTACHMENT FOR LAWN SHEARS
Jesse L. Butler, Cleveland, Ohio
Application February 10, 1950, Serial No. 143,545
2 Claims. (Cl. 37—53)



1. A snow plow attachable to a handle with a grasping portion and a lower portion which has two wheels longitudinally spaced for rollably supporting said lower portion on a surface to be cleaned of snow, said lower portion having an upper edge, said snow plow comprising a scraper blade of sheet material having a back, a bottom edge and two upright side edges, a hinge member having an axis and fastened to the lower central portion of the back of said scraper blade, a socket of generally rectangular cross section fastened to said hinge member for hinge movements relative to said scraper blade, said socket adapted to closely receive the end of the lower portion of said handle for movement therewith, roller wheels journaled on each side of said socket so that when said handle lower portion is received in said socket all four wheels will rest on a plane surface, said hinge axis being perpendicular to such plane surface to permit said bottom edge of said scraper blade to be partially rotatable substantially in said plane surface, an arcuate holding strap of substantially 180 degrees having the two ends thereof fastened to the back of said scraper blade at points equidistant from the hinge member and near said side edges, the radius of said arc exceeding the distance between the hinge axis and the extreme end of said socket, said holding strap having notches on the underside thereof, said holding strap defining a plane which is substantially parallel to said plane surface and which substantially intersects the uppermost wall of said socket, whereby the upper edge of the lower portion of said handle passes through and engages any one of said notches in said arcuate holding strap when said lower portion is received in said socket.

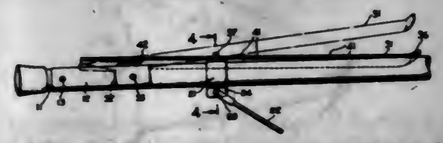
2,653,398
STEAM ELECTRIC FLATIRON FOR DOMESTIC HOUSEHOLD USE
Joseph O. Thibault, Bridgeport, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application July 7, 1949, Serial No. 103,437
13 Claims. (Cl. 38—77)

1. In a steam-electric iron, a casing having a pair of spaced vertical, oppositely located outer walls facing each other adjacent the rear of the sole plate, and having oppositely located bearing apertures in said walls; a handle structure having a mounting portion interposed between said casing walls, provided with recesses aligned with and juxtaposed to the bearing apertures; bearing pins slidably carried in said recesses and extending into the said bearing apertures, said pins having shoulders engageable with the opposite walls of the casing, and being completely retractable into said recesses; and springs in said



recesses, engaging the bearing pins and yieldably maintaining the shoulders thereof in engagement with said casing walls.

2,653,399
LATCH CONSTRUCTION FOR FOLDING IRONING BOARDS
Rexton C. McKinnie, Santa Monica, Calif.
Application December 27, 1951, Serial No. 263,665
4 Claims. (Cl. 38—121)



3. A latch construction for releasably locking pivotally interconnected legs in selected degree of angular adjustment with respect to each other, one of said legs having a guide member substantially round in cross-sectional configuration, said latch comprising a collar slidable upon said guide member, a pin rigid with and extending outward from said collar, a rod pivotally connected at one end to said collar and at its other end to the other of said legs at a location spaced from the axis of said pivotal interconnection of said legs whereby said collar is caused to slide along said guide member when variation occurs in the angularity of said legs with respect to each other, a latch plate of arcuate cross-section overlying and substantially conforming to the curvature of said guide member, parallel flanges rigid with the side edges of said latch plate adjacent one end thereof and embracing said guide member, and a pin extending through said flanges and said guide member at a location outside the range of movement of said collar, said latch plate extending along said guide member and having a plurality of spaced apertures therein within which said pin is selectively receivable.

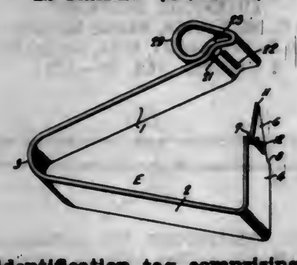
2,653,400
TAMPERPROOF IDENTIFICATION TAG
William Alfred Sutherland, Essex Junction, Vt.
Application August 8, 1949, Serial No. 109,150
2 Claims. (Cl. 40—2)



1. In an ear-tag of the character described, a tamper-proof tag comprising a suitable material of sufficient length, width and thickness to form, when bent upon itself, an open link-like shape with one end of said open link shaped to a pointed end depending slightly towards the

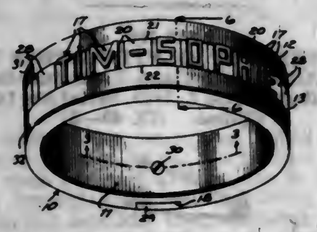
other end of said open link, the pointed end being slightly curved toward the other end and containing a slot with a transversely directed sill, the other end having a sealed compartment with an inner surface and being equipped with a slot on its side and an outward groove therearound, thru which said pointed end may be forcibly inserted such as to direct said point by means of the inner surface around the interior wall of said sealed member so that the point first passes thru the second named slot and thence thru the slot in itself in such relative manner as to cause the pointed end to securely lock itself in position within the sealed chamber to form a permanently closed link-like article for use as a tamper-proof identification tag.

2,653,401
IDENTIFICATION TAG
William Alfred Sutherland, Essex Junction, Vt.
Application August 16, 1950, Serial No. 179,769
12 Claims. (Cl. 40—3)



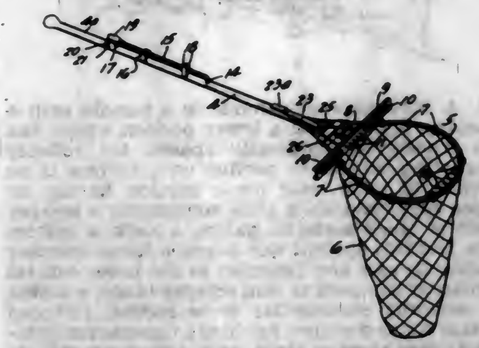
1. An identification tag comprising two connected parts, a slot in one part and a pointed end on the other part, means to prevent withdrawal of said pointed end when the same is inserted into said slot and then bent, said pointed end being in the form of a triangle having a base integral with said other part, the width of said base being less than the width of said other part to thereby provide shoulders on opposite sides of said triangle and aligned with the base thereof which act as stop means preventing inward movement of said other part, said means to prevent withdrawal including a lug bendable with respect to and initially lying in the plane of, said pointed end and lying at an angle with respect to said pointed end, when said pointed end is inserted in said slot and bent.

2,653,402
RING
Anthony Benagura, New Paltz, N. Y.
Application April 9, 1952, Serial No. 281,364
1 Claim. (Cl. 40—140)



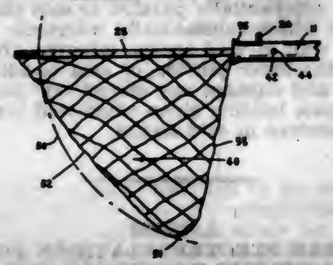
An article of jewelry comprising a rigid annular base member carrying a pair of flanges in fixed spaced relation to form an annular channel therebetween, a set of insignia carrying elements having bases sliding in said channel, said channel and said bases being dovetailed to hold said elements to said base member, a slot in said flanges to receive said elements during assembly, and a locking element fitting in said slot and secured to said base member to lock said elements in place, the bases of said elements being formed with tapered side walls to allow the outer edges of adjacent elements to come into close contact.

2,653,403
FISH NET
Willis L. Oslund, Forest Lake, Minn.
Application March 5, 1952, Serial No. 274,890
10 Claims. (Cl. 43—11)



1. In a net structure having a loop and a handle projecting from one side of said loop the improvements which comprise, a bag suspended from said loop and slidable along opposite sides thereof from an open position to a closed position, spring actuated means operatively connected to said bag for closing it instantly by gathering it at a side of said loop and latch means disposed to retain said spring actuated means in retracted position and said bag in open position.

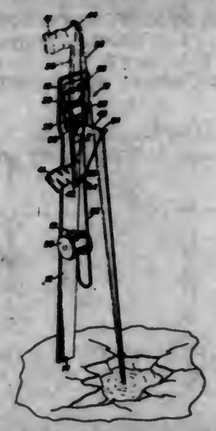
2,653,404
FISHING NET
Joseph R. Phaneuf, Southbridge, Mass.
Application April 23, 1948, Serial No. 22,923
4 Claims. (Cl. 43—12)



1. In a fishing net of the type embodying a tubular handle and resilient net supporting frame portions operably connected with said tubular handle so as to be extendable and retractable with respect to said handle, the improvement wherein the outer ends of said frame portions have, adjacent each of said ends, connection means in the form of a plate member secured along a side edge thereof to each of the inner side surfaces of said frame portions, a pivot post pivotally connecting said plate members with each other at a location outwardly of the ends of said resilient frame portions, said pivot post being such that one of said plate members, in addition to its pivotal movement, is adapted to move in a sidewise direction relative to the other plate member in a direction longitudinally

of the axis of the pivot post, and resilient means on said pivot post for normally urging said plate members towards each other, one of said frame portions having an end portion angularly disposed with respect to the plate member secured thereto, and the plate member secured to the other of said frame portions, beyond the pivot post, having an end portion deflected outwardly in a sidewise direction and, under the tension of the resilient means on said pivot post, being adapted to automatically latch with said angularly disposed portion of the end of the opposed frame portion when the adjacent ends of said resilient net supporting frame portions are pressed inwardly toward the tubular handle to bow said frame portions outwardly a desired amount with respect to each other and to hold said frame portions in said bowed relation, the resiliency of said frame portions, when the deflected end portion of the plate member is in unlatched relation with the angularly disposed end of the opposed frame portion, being such as to tend to cause said frame portions to return to their initial extended shape whereby they may be retracted and extended with respect to the tubular handle.

2,653,405
ICE FISHING JACK
John A. Monahan, Pittsford, Vt., assignor of fifty per cent to Martin J. DeBivort, Rutland, Vt.
Application August 17, 1950, Serial No. 180,059
2 Claims. (Cl. 43—16)



1. A fishing device comprising an elongated support, a reel secured to said support intermediate its ends and having a line wound thereon, a rectangular frame including a pair of transverse and a pair of longitudinal portions adjacent one end of said support, one transverse portion of said frame being pivotally secured to said support whereby the frame may be swung on said support, a coil spring surrounding said one transverse portion of said frame and having one of its ends contacting said support and the other of its ends contacting a longitudinal portion of said frame and normally biasing said frame in one direction with respect to the support, a transverse cross piece secured to said frame intermediate its transverse portions, a spring arm connected at one of its ends to said one transverse portion and extending over said cross piece and under the other of said transverse portions whereby the arm will swing with the frame, said arm terminating at a point remote from said frame and having a portion of said line connected thereto, a latch rod pivotally secured to said support adjacent said other transverse portion, said latch rod having an arcuate recess retaining said other transverse portion adjacent said support against the action of the coil spring, and a hook on the free end of said latch rod, said line extending from said arm over said hook whereby movement of said hook releases said rod and causes said arm to be pivoted along with said one transverse portion upon swinging movement of said rod.

2,653,406
FISHING ROD STABILIZER
George W. Grabiak and Richard W. Grabiak, Reading, Pa.
Application October 12, 1950, Serial No. 189,843
1 Claim. (Cl. 43—25)



In combination with a fishing rod having a reel, a fishing rod stabilizer extending upwardly from said rod behind the reel for interposing between the upper arm and body of the person operating the reel by the hand of said arm, said stabilizer comprising an inverted U-shaped member having relatively short and long front and rear legs with flattened terminals and a straight web connecting said legs, and clamps attaching the flattened terminals of said legs to said rod with the member coplanar with the rod and the short leg positioned between the reel and said long leg whereby said web inclines forwardly and downwardly towards said rod behind said reel to facilitate holding the rod in upwardly inclined position and vertical swinging of said rod with the web held under the arm pit of said arm.
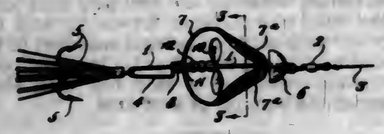
2,653,407
FISHING DEVICE
Antonio Cunha Freire, Sao Paulo, Brazil
Application January 5, 1951, Serial No. 204,547
In Brazil January 12, 1950
3 Claims. (Cl. 43—26)



1. A fish hook comprising, in combination, a guiding member having two parallel spaced plate portions, one of said plate portions being formed with one hole and the other of said plate portions being formed with three holes; a V-shaped resilient wire member having two straight leg

portions ending in outwardly directed hook portions adapted to overlap when said leg portions are pressed towards each other into a compressed position, said two leg portions in said compressed position crossing each other in one crossing point, and said two hook portions crossing each other in another crossing point located farther from the apex of said V-shaped wire member so as to define a loop, said V-shaped resilient wire member having the apex thereof located between said two plate portions with said two leg portions passing through two of said three holes in said other plate member; an elongated resilient rod passing through the third hole in said other plate portion and being longitudinally slidable therein between a locking position and a releasing position, and in said locking position having one end portion passing through said loop formed by the leg portions of said V-shaped wire member in said compressed position of the same and engaging said hook portions at said crossing point of the same so as to lock said V-shaped wire member in said compressed position, the other end portion of said rod being located between said plate portions and formed with an eyelet adopted to be secured to the end of a fishing line passing through said one hole in said one plate portion; a coil spring passing through said one hole and having a length greater than the distance between said plate portions and adapted to permit passing of said fishing line through the interior thereof; and means for holding one end portion of said coil spring between said plate portions.

2,653,408
FISHING LURE
Aura R. Bradley, Berea, Ohio
Application February 4, 1952, Serial No. 269,790
3 Claims. (Cl. 43—42.12)



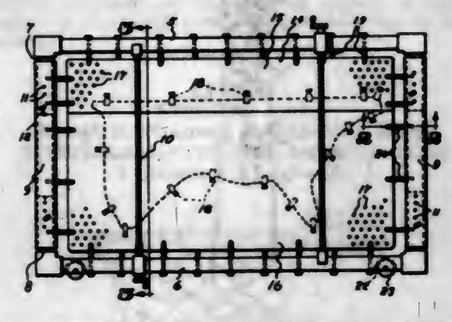
1. A fishing lure comprising a rigid shaft adapted to have a fishing line secured to one end thereof and a fish hook secured to the other end thereof, said shaft having rotatably mounted thereon two spinners, one of said spinners comprising a continuous band of sheet material having a cross sectional configuration of substantially pear-shape and having aligned openings in opposite parts thereof for rotatably mounting the said one spinner on said shaft, said one spinner having its smaller end located forwardly and its forward end portions on opposite sides of said shaft having twists in the nature of a screw means, the longitudinal axes of said portions being at an acute angle to each other, said one spinner at its rear end defining substantially half the curve of an ellipse and being symmetrically arranged on opposite sides of said shaft, the other spinner being slidably mounted on said shaft and located within said first spinner and in normal use having its longitudinal axis substantially in line with the ends of the elliptical portion of said one spinner and being so formed that when said other spinner is in the latter location it is adapted to rotate in the opposite direction to that of said first spinner.

2,653,409
SPINNER FISHING LURE
William E. Hancock, Sherman Oaks, Calif.
Application October 5, 1951, Serial No. 249,905
1 Claim. (Cl. 43—42.51)



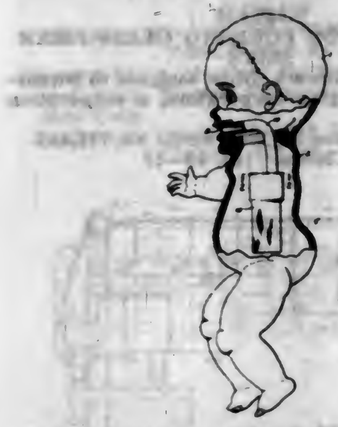
A spinner fishing lure initially of sheet material of blank form having straight side edges and a curved rear edge connecting said side edges, a front edge having portions adjacent the side edge at right angles thereto, a central portion of semi-circular form and slots between the central portion and the first mentioned front edge portions, said front edge portions having substantial extent, said blank in final form having the central portion of the curved rear edge flat and in a plane at right angles to the semi-circular central portion of the front edge, said semi-circular portion being flat, the portions of the front edge, adjacent the side edge extending in opposite directions from the plane of the central rear portion at an acute angle thereto, and a portion of the blank between the flat ends thereof having a twist, said flattened portions having openings therein for the attachment of fishing implements.

2,653,410
LEATHER STRETCHING APPARATUS
John W. Durkee, North Wilmington, Mass.
Application February 9, 1949, Serial No. 75,399
2 Claims. (Cl. 45—24)



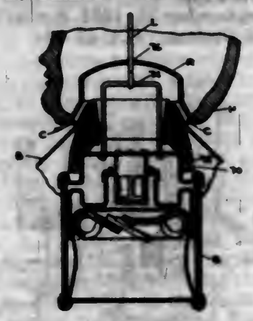
1. Apparatus for use with a jack in stretching leather having holders attached to the edges thereof, said apparatus comprising two pairs of members each of which includes side portions, a pair of elements each of which has a passage extending therethrough to slidably receive corresponding side portions of both pairs of members thereby to establish a pair of frames each of which is adapted to be expanded by said jack when in engagement with both members of one frame, each element having a slot in parallel with each side portions that it receives, leather supporting means for each frame comprising a pair of sections having a multiplicity of anchoring recesses, for said holders, a plurality of connectors connecting each section to the member of the frame for that section, a plurality of connectors extending through the corresponding element slot and connecting that section to the side portion of that member, and releasable means to lock each of said side portions to the element to which it is connected thereby to enable each frame to be locked in an expanded position.

2,653,411
DRINKING AND WETTING DOLL WITH SOUND EFFECTS
George W. Beltz, Cuyahoga Falls, Ohio, assignor to The Sun Rubber Company, Barberton, Ohio, a corporation of Ohio
Application February 24, 1949, Serial No. 78,169
7 Claims. (Cl. 46—117)



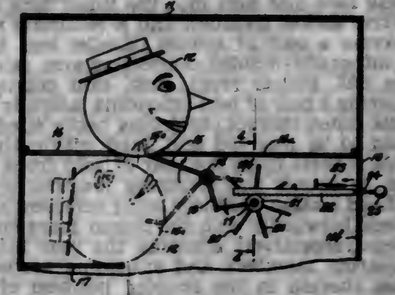
1. In a drinking-wetting doll construction the combination of a hollow compressible torso and a head on the torso, an orifice at the mouth, a water conducting tube leading from the mouth and discharging into the torso, an outlet for water in the lower region of the torso, and an air-actuated sound maker within the doll and operable by air expelled from the torso, said sound maker being connected to the water conducting tube and in uninterrupted communication with the water conducting tube and with the interior of the torso.

2,653,412
SOUND PRODUCING DOLL
Howard Wolfe, Harrington Park, N. J., assignor to Voices, Inc., Bayonne, N. J., a corporation of Delaware
Application July 30, 1949, Serial No. 107,679
13 Claims. (Cl. 46—117)



1. A toy comprising a body having a neck portion, a head having a neck opening conforming to the neck portion, a sound producing device disposed in the body near the neck portion and arranged to discharge sound through the neck portion, the opening of the head being provided with channels for sound discharge, and a reflector plate disposed in the head over the neck portion to reflect the sound discharged from the sound producing device, and to guide the same through the aforesaid channels.

2,653,413
AMUSEMENT DEVICE FOR SELECTIVE EXHIBITION OF FIGURINES
Morry Spiegel, Brooklyn, N. Y.
Application February 20, 1952, Serial No. 272,537
2 Claims. (Cl. 46—119)



1. An amusement device comprising an exhibition platform having a series of holes therein, mechanism below said platform comprising a rocking shaft mounted below said exhibition platform and provided at one side thereof with figurine-mounting rods, each adapted upon the rocking of said shaft to move a figurine from hidden to erected position and vice versa, said rocking shaft being provided at the side thereof opposite to said mounting rods with a rocking lever for each figurine-mounting rod, an operating shaft provided along its length with a series of operating rods at varying circumferential positions around its surface, each of which operating rods is adapted to engage a rocking lever of a figurine, and means for turning said shaft into successive positions wherein the operating rods connected thereto will engage and release rocking levers to move said figurines from hidden to erected positions and vice versa.

2,653,414
EYE-SET CONSTRUCTION FOR DOLLS
Edmund W. Baggott, Brooklyn, N. Y., assignor to Ideal Toy Corporation, a corporation of New York
Application January 14, 1950, Serial No. 138,587
2 Claims. (Cl. 46—169)



1. A molded doll-head comprising hollow front and rear half head sections adapted to be fixedly joined along their facing peripheral edges, said front head section having a convex front wall containing a pair of transversely spaced eye openings, a pair of integrally-molded bearing members located on the rear surface of said front head section adjacent to and spaced on opposite sides of said eye openings, said bearing members having opposed side faces containing transversely-alined bearing recesses which extend to the respective rear faces of said bearing members, a molded eye set having eye members and a pair of alined laterally-projecting pivot pins insertable within said bearing recesses from the rear of said front head section and turnable in said bearing recesses with the eye members in regis-

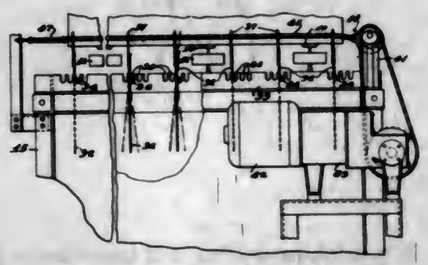
tration with said eye openings, a pair of socket members integrally molded on opposite sides of the rear edge-wall of said front head section and spaced transversely and rearwardly of the bearing members, said socket members having respective facting sockets each of which opens into the rear face and also into the inner face of its respective socket member, and a retaining member having a pair of spaced parallel legs joined by an integrally-molded connecting arm, said legs having flat, planar front ends, said connecting arm having a pair of lugs extending laterally from opposite sides thereof, said lugs being sized and adapted to be inserted and fixed within the respective sockets from the rear of said front head section to couple the retaining member to said front head section, said legs being sufficiently long to extend forwardly with the planar front ends of said legs respectively abutting the rear faces of said bearing members and extending across the recesses therein in the coupled position of said retaining member, thereby holding the eye member pivot pins rotatably within said bearing recesses.

2,653,415
SWIVEL FASTENER
Philip D. Becker, Hingham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application May 13, 1949, Serial No. 93,090
1 Claim. (Cl. 46—173)



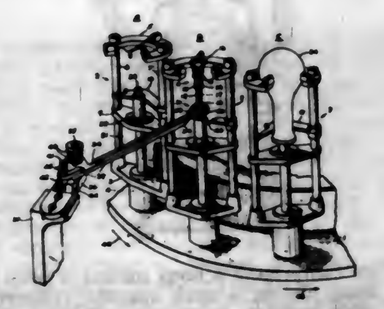
A fastener installation comprising a pair of relatively movable members, each having an outer covering of elastic sheet material, the covering of one having an aperture, a first plate member having an aperture and having one face secured to portions of the inner surface of the covering of said one member surrounding the aperture therein, a stud member having a shank extending through the aperture of said first plate in slidable relation thereto, a base flange disposed within said one movable member, and a head disposed on the other side of said plate providing an annular shoulder adjacent the shank, a second plate member disposed within the other movable member and comprising an apertured plate with one face secured to the inner surface of the covering of said second movable member and a locking member having a flat rim in engagement with portions of the inner face of said plate adjacent the aperture therein and angularly inwardly extending resilient fingers circumferentially spaced about asid rim in locked engagement with the shoulder on the head of the stud, the head of said stud member and portions of the shank adjacent thereto being assembled with said other movable member with the covering thereof stretched over said head and adjacent portions of the shank and the inner ends of said resilient fingers in locking engagement through the covering with the shoulder on said head, and a spring member disposed between the flange of said stud and said first plate to urge the separation thereof and the biasing of the portions of the surfaces of the coverings of said movable members underlying said plates in frictional engagement.

2,653,416
APPARATUS FOR FORMING GLASS FIBER MATS
Games Slayter, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application June 30, 1950, Serial No. 171,445
11 Claims. (Cl. 49—1)



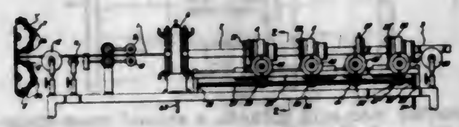
7. Apparatus for forming fibers including, in combination, a blower for discharging a gaseous blast into engagement with streams of molten glass for attenuating the streams to fibers, a vane pivotally supported adjacent the blower and out of the path of the blast, means for adjusting the position of the pivotal axis of the vane in relation to the path of travel of the blast issuing from the blower, and means for moving the vane to control the direction of the air stream induced by the gaseous blast to alter the direction of flow of the blast.

2,653,417
MOUNT LOADING GUIDE
Conrad E. Bechard, Mayfield Heights, Ohio, and Victor A. Levand, Jr., Philadelphia, Pa., assignors to General Electric Company, a corporation of New York
Application September 23, 1952, Serial No. 311,092
5 Claims. (Cl. 49—2)



1. A guide device for loading the exhaust tube of an electric lamp mount into the hollow mount pin of a head of a lamp sealing machine comprising a pair of segments coacting to define a funnel, a primary spring loaded arm supporting one of said segments, a stop determining the normal position of said primary arm, a secondary arm generally parallel to said primary arm supporting the other segment and spring pivoted with respect to said primary arm, and means on said secondary arm engageable by a cooperating portion of said head for actuating said secondary arm while maintaining the primary arm against its stop.

2,653,418
APPARATUS FOR DRAWING VITREOUS TUBES AND RODS
Bernard Shaw, Mayfield Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application October 13, 1949, Serial No. 121,206
8 Claims. (Cl. 49—17.1)



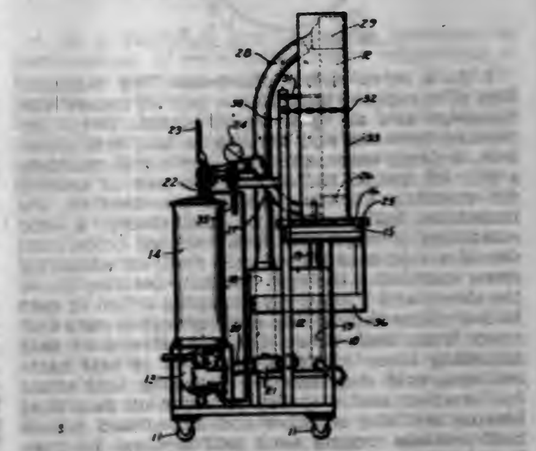
1. Apparatus for drawing tube or rod from a vitreous slug comprising heating means, spaced chucks to one side of and in alignment with the heating means and movable toward and away therefrom having separate releasable means for gripping and means for aligning a slug therewith, means for selectively moving both the chucks at corresponding speeds rectilinearly toward the heating means to advance one end and succeeding portions of the slug in turn thereto, means on the opposite side of the heating means from the chucks for drawing tube or rod from the heated end of the slug, and means for selectively effecting the release of the gripping means of each of the chucks while maintaining the aligning means in engagement therewith to allow the successive rearrangement of the chucks outward away from the heating means while the slug continues to be aligned by both said chucks.

5. Apparatus for drawing tube or rod from a vitreous slug comprising heating means comprising a hollow core, burners mounted upon one end portion of the core directing flames inward toward an operative position along a drawing axis extending therethrough, a sleeve surrounding and attached to the opposite end portion of the core having longitudinal passages therein for conducting combustible gases, support means engaging the periphery of the sleeve and adapted to permit the rotation of said sleeve and the burners about the drawing axis, means for conducting combustible gases between the adjacent ends of the passages in the sleeve and the burners and fixed means engaging the end of the sleeve opposite the burners and providing circular channels along the course of movement of the ends of the passages in said sleeve for supplying combustible gas to said passages at all rotative positions of the sleeve, means located to one side of the heating means for advancing one end and successive portions of a slug to the operative position to effect the heating thereof, means for rotating the core of the heating means to cause the flames from the burners to impinge uniformly on the full periphery of the slug and means on the opposite side of the heating means from the slug-supporting means for drawing tube or rod from the heated end of the slug.

2,653,419
METHOD OF MAKING ANNEALED COPPER RUBY GLASS ARTICLES
Ralph F. Brenner and Paul D. Dillard, Lancaster, Ohio, assignors to Anchor Hocking Glass Corporation, Lancaster, Ohio, a corporation of Delaware
No Drawing. Application June 16, 1949, Serial No. 99,590
2 Claims. (Cl. 49—88)

1. The method of making annealed copper ruby glass articles which comprises providing a glass mix including sand, a copper compound in amount corresponding to 0.02 to 0.5 part of cuprous oxide per 100 parts of sand, and a metallic cyanogen compound selected from the group consisting of metal cyanides, cyanates and cyanamides, the cyanogen compound being present in amount corresponding to 1 to 9 parts of sodium cyanide per 100 parts of sand, melting said mix, fabricating said melted mix into a series of articles of light green coloring, and heating the said glass articles while conveying them in sequence through a lehr at temperatures from 1100° F. to 1150° F. for a period of from fifteen to twenty-five minutes to produce in each of said articles a ruby color transmitting 68% to 80% of light rays of a wave length of 690 mμ and not more than 16% of light rays of a wave length of 550 mμ when corrected for a glass thickness of about 2 mm.

2,653,420
METHOD AND APPARATUS FOR CLEANING RADIATOR TUBES AND THE LIKE
Acquilla R. Ruth, York, Pa.
Application May 2, 1947, Serial No. 745,280
9 Claims. (Cl. 51—8)

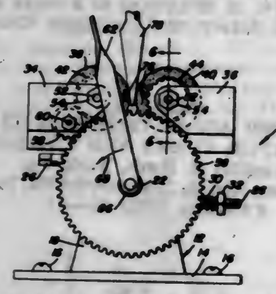


1. The method of removing deposits of scale and the like from the inner surfaces of thin walled heat transfer circulation passages comprising, making attempted delivery through the passages of an amount of a scale dissolving solution under increased pressure and containing elements contributing to the removal of said deposits equal to the capacity of the passages when clean, and heating the solution between the point where the pressure thereof is increased and the passages at a rate such that said fluid when delivered to the passages at such capacity is approximately at least at its boiling point.

5. Apparatus for cleaning scale deposits and the like from the interiors of motor vehicle radiators having thin walled tubes and inlet and out-

let ports arranged respectively near the upper and lower ends of said radiators, said apparatus comprising in combination, a tank adapted to contain a quantity of scale solvent solution, a pump connected to said tank by a conduit, a heater for said solution connected to the inlet end of said pump by a conduit, a jacket arranged to enclose a radiator to be cleaned, a conduit extending between the outlet end of said heater and said jacket and arranged to be connected to one port of said radiator, and another conduit extending between said jacket and said tank, one end of the former conduit being arranged to be connected to the other port of said radiator, whereby upon said pump being operated said apparatus will function to deliver heated solution to said one port of said radiator and upon meeting obstruction to passage within said radiator tubes pressure will be developed within said heater and former conduit and thereby increase the temperature of said solution therein.

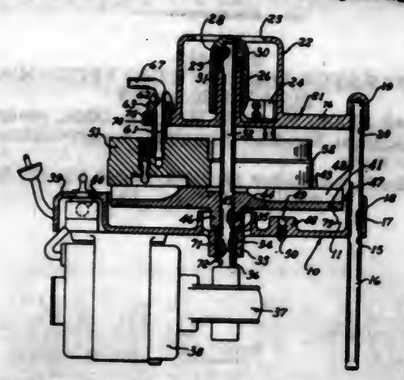
2,653,421
SCREW DRIVER SHARPENER
Frank Kobos, Houston, Tex.
Application May 22, 1952, Serial No. 289,299
3 Claims. (Cl. 51—30)



1. In a screw driver sharpener, the combination of a support including a pair of spaced side members and an open-ended tubular sleeve extending between and secured to said side members, a clamp embracing said sleeve and including a pair of spaced half-sections, a pair of holders for coacting abrading wheels provided on the respective half-sections of said clamp, a stud extending through said half-sections below said sleeve, a stop member on said stud, an adjusting screw extending through the half-sections above the sleeve and threadedly engaging a first of said half-sections for moving said holders toward and away from each other, the headed end of said adjusting screw abutting the other of said half-sections, said stop member engaging said other half-section and a spring provided on said stud biasing said stop member and one of said spaced half-sections urging said half-sections in frictional engagement with said sleeve regardless of the adjustment of said screw, the adjustment of said screw determining the degree of compression of said spring.

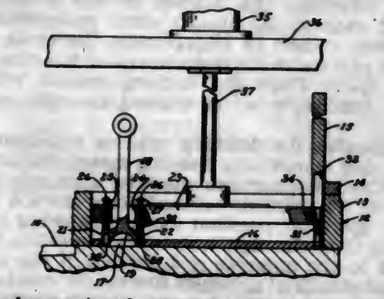
2,653,422
LAPPING MACHINE CONSTRUCTION
Raymond George Reahong, North Hollywood, and Vasalie L. Peickii, Hollywood, Calif., assignors to Crane Packing Company, Chicago, Ill., a corperation of Illinois
Application August 23, 1949, Serial No. 111,806
5 Claims. (Cl. 51—131)

2. A machine for finishing surfaces of articles comprising a rotatable platen for operating upon the articles to be finished, an abradant-supplying device, and a frame for supporting the platen and abradant-supplying device, said frame comprising a cross-member having a plurality of arms, each arm having a socket substantially at the end thereof, supporting legs comprising rods



extending into said sockets, a second cross-member, means for securing the second cross-member to the rods, means for supporting the platen from the second cross-member, a motor, and means connecting the motor to the platen to drive the platen, said motor being supported from the second cross-member.

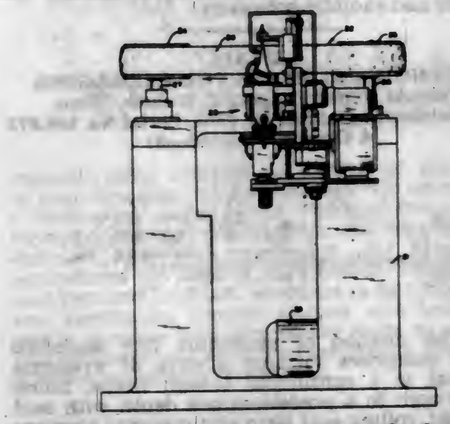
2,653,423
APPARATUS FOR LAPPING CONNECTING ROD ENDS, CAPS AND SIMILAR ARTICLES
Fred L. White, Chicago, Ill., assignor to Crane Packing Company, Chicago, Ill., a corperation of Illinois
Application June 26, 1951, Serial No. 233,534
6 Claims. (Cl. 51—131)



1. Apparatus for lapping the ends of connecting rods and the like comprising a rotatable lap plate having a lap surface, a conditioning ring having a surface thereof in engagement with the lap surface of the lap plate and adapted to condition the latter, means operatively connected to the lap plate for rotating the latter, means holding the conditioning ring on the lap plate against bodily movement around the axis of the lap plate while permitting rotation of the ring about its own axis due to frictional contact thereof with the lap surface, a work holder disposed within the conditioning ring and in contact with the lap surface, there being a plurality of work receiving openings in said work holder adapted to receive therein the ends of the connecting rods to be lapped with the axes of the rods extending vertically, a pressure plate disposed within said conditioning ring above said work holder, there being a series of clearance

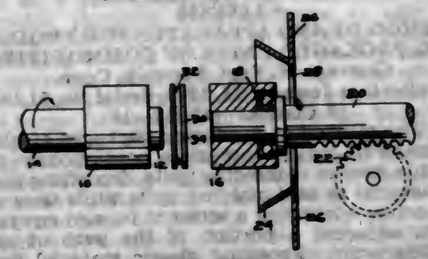
holes in said pressure plate through which the vertically extending connecting rods are adapted to pass when the rods are in lapping position on the lap surface, and a series of pressure pins depending from said pressure plate, each adapted to bear against a surface of a connecting rod to hold the same on the lap surface against tilting movement.

2,653,424
SHOE HEEL SURFACING MACHINE
Justin P. Quirk and Ludwig G. P. Hafner, St. Louis, Mo., assignors, by mesne assignments, to Quirk Machinery Company, St. Louis, Mo., a corperation of Delaware
Application December 2, 1947, Serial No. 789,454
8 Claims. (Cl. 51—145)



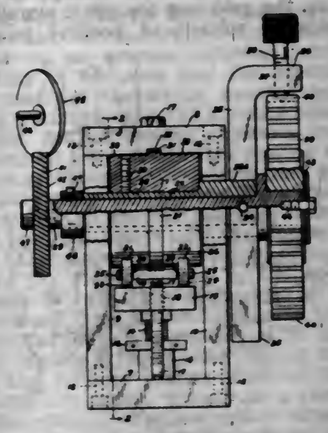
4. In combination with a shoe heel making machine having a tool and a work piece feeding unit adapted to move a work piece relative to said tool, a device for shifting an effective surface of said tool relative to said work piece, a movable arm mounting said device, cam means for moving said arm, and means for driving said cam to move said arm comprising a power take-off from said work piece feeding unit connected with said device to move the effective surface of said tool relative to said work piece in timed relationship with movements imparted to said work piece by said work piece feeding unit.

2,653,425
METHOD OF MAKING BUFFS
Eli Sandman, Worcester, and Ernest R. Sykes, Paxton, Mass., assignors to Eli Sandman Co., Worcester, Mass., a corperation of Massachusetts
Application April 24, 1951, Serial No. 222,628
6 Claims. (Cl. 51—193)



1. The method of making buffs comprising clamping a hub having a grooved periphery between a pair of axially movable rotary heads, rolling a length of pleated fabric on the combined heads in several layers, with the hub centrally located in the roll and transversely positioned therewithin, positioning a wire hoop over the heads and in the plane of the hub groove, crimping the wire down onto the roll and securing the same to the hub while flaring the ends of the roll, pressing the flared ends of the roll to bring the same into substantial parallelism with the hub, and securing the plies of the pleated fabric in this position.

2,653,426
FIXTURE FOR GENERATING INVOLUTES
Joseph Silvagi, Detroit, Mich.
Application May 1, 1952, Serial No. 285,489
11 Claims. (Cl. 51—232)

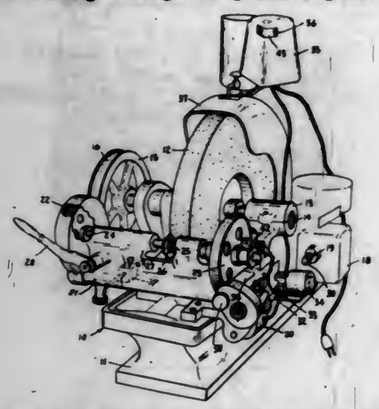


1. In a device of the character described in combination, a rectangular frame supporting a top plate provided with serrations on its under surface, a vertically movable platform positioned below said top plate, a carriage longitudinally shiftable on said platform, rollers on said carriage, a cylindrical member supported on the rollers of said carriage and arranged for rotation thereon and longitudinal travel therewith and further arranged for rolling contact with said top plate, a hollow shaft in said cylindrical member and rotatable therewith, a solid shaft rotatable in said hollow shaft, an indexing arm secured to said hollow shaft and movable therewith, an indexing plate secured to one end of said solid shaft and movable therewith, a plunger reciprocable in an extension of said indexing arm and having an end arranged to engage indexing slots formed on the periphery of said indexing plate whereby to rotate said plate, and means for supporting a work piece at the other end of said solid shaft.

2,653,427
MEANS FOR CONTROLLING EDGING MACHINES
Charles A. Ellis, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application November 13, 1947, Serial No. 785,590
3 Claims. (Cl. 51—101)

1. A lens edging machine of the character described comprising a rotatable abrading wheel, a rotatable work holding device for supporting a lens in position to be edged by said abrading wheel, said work holding device being supported

for movement in a controlled path toward and away from said abrading wheel, a pattern rotatable with said work holding device, a contact positioned to be engaged by said pattern to control the relative spacing of said work holding device to the abrading wheel, electrically operated drive means imparting simultaneous rotary movement to the work holding device and pattern when electrically energized, a circuit for connecting said drive means to an A. C. source, a three element type gas-filled electron tube embodying a cathode, plate and intermediately disposed control grid and having its cathode and plate connected in said circuit on one side of the drive means whereby there will be an A. C. potential on the plate when the drive means is connected by said circuit to an A. C. source, and a pair of bias circuits of fixed potential connected with said grid, one introducing D. C. voltage of negative polarity on the grid and the other simultaneously introducing voltage of positive polarity on



said grid, said tube firing only when the grid is positive with respect to the cathode, and the bias circuit of negative polarity normally having a value slightly in excess of that of the positive polarity bias circuit to prevent firing of the tube, and means operable by engagement of the pattern and contact for increasing the potential of said positive polarity bias circuit to a value where it exceeds that of the bias of negative polarity to permit the tube to fire and allow the circuit to energize the drive means to rotate the work holding device and advance an adjacent unabraded portion of the lens to a position where the pattern and contact will disengage and cause the bias circuit of negative polarity to again become of greater potential so as to substantially instantaneously stop the said advance of the lens when the potential of the A. C. on the plate goes to zero and allow said portion of the lens edge to be ground, whereby in one complete revolution of the lens it may be edged to substantially the exact shape of the pattern.

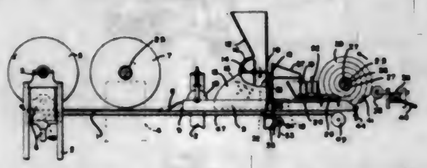
2,653,428
GRINDING DISK
Paul K. Fuller, Rocky River, Ohio
Application April 10, 1952, Serial No. 281,592
1 Claim. (Cl. 51—195)

An abrasive disk comprising a tough flexible backing sheet of circular form, there being a smooth central area surrounded by a grinding area, said grinding area comprising abrasive particles bonded to said backing sheet, there being smooth non-abrasive paths extending outwardly through said grinding area from a zone within said grinding area spaced outwardly from said smooth central area to the periphery of said disk, said smooth paths bending alternately clockwise and counterclockwise around said disk, whereby,



when said disk is rotated and applied to a piece of work, the edges of said smooth paths provide draw cuts to the work alternately radially inwardly and radially outwardly.

2,653,429
METHOD AND MEANS FOR PACKAGING
Francis Henry Fitzgerald, Duluth, Minn.
Application September 24, 1951, Serial No. 248,075
4 Claims. (Cl. 53—9)



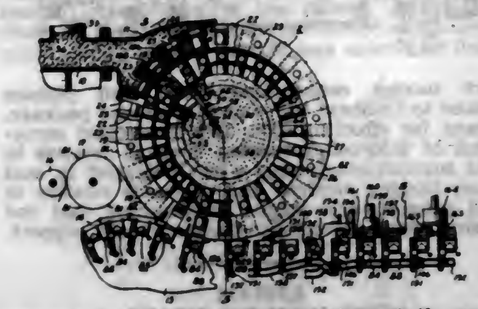
1. The method of packaging fine materials which comprises forming a strip of wrapping material to a continuous trough shape, filling said trough to a predetermined depth with said material, rolling said strip and material together in a spiral coil whereby the portions of said strip already wound on said coil act as a cover for the portions being wound on said coil, and sealing the otherwise open end and edges of said coil.

3. A machine for packaging fine materials comprising a table, an elongated wrapping strip carried on said table and movable longitudinally thereon, means on said table to form said strip to a trough shape as it moves along same, a hopper over said table to supply material to said troughed strip to a predetermined depth leaving a marginal edge on each side of said trough free of said material, an axle carried over said table, said axle being rotatable, a core removably carried on said axle to receive one end of said strip whereby the latter may be wound in a spiral coil with said free marginal edges overlapping the adjacent portions of said core and said strip, and means for securing said marginal edges to said adjacent portions of said core and said strip.

2,653,430
METHOD OF AND APPARATUS FOR PRODUCING PACKAGED UNITS OF COMMODITIES
Clarence W. Vogt, Norwalk, Conn.
Application January 15, 1949, Serial No. 71,195
13 Claims. (Cl. 53—15)

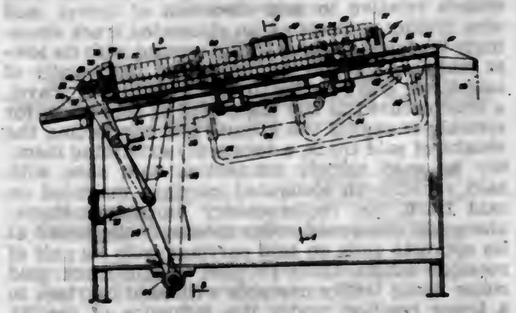
1. The method of producing packages of plastic material which comprises continuously advancing a series of molding units, depositing plastic material in said molding units while they are advancing, advancing a series of formed enwrapments adjacent a portion of the path of said molding units, depositing plastic material from said molding units into said enwrapment, and accelerating said enwrapments and plastic material with respect to said molding units as the completion of said deposition to cause portions of said enwrapments to wipe portions of said molding units and remove plastic material tending to adhere thereto.

12. Apparatus for producing packaged commodity units which comprises a plurality of commodity supporting elements mounted for movement in a closed endless path, a plurality of receptacles mounted for movement in a closed endless path with a portion of the path of said re-



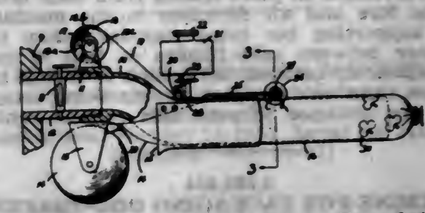
ceptacle being adjacent a portion of the path of said elements, feed mechanism for advancing a connected sequence of flattened expansible wrappers in timed relation with and between said elements and said receptacles, and depositing mechanism to deposit commodity units from said elements into said wrappers as said wrappers and receptacles become aligned with said elements to cause said commodity units to expand said enwrapments as said enwrapments and units are received by said receptacles.

2,653,431
BAG BALING MACHINE
Paul C. Robinson, Canajoharie, N. Y., assignor to Arkell and Smiths, a corporation of New York
Application September 28, 1950, Serial No. 187,325
6 Claims. (Cl. 53—57)



1. In a baling machine the combination of a movable platform with a flange at one end adapted to receive a sheet of wrapping paper for packaging a stack of paper bags placed thereon, a removable abutment plate held immediately above said platform in position to cooperate with the flange for applying pressure to the bag stack, reciprocating means for moving the platform to slide the wrapper under said abutment plate and compress the bag stack between said flange and abutment plate, said means being adapted to hold the bags compressed until the ends of the paper are wrapped and glued around the bag stack and said means being further adapted to release the pressure so that the abutment plate may be removed from the open wrapper, after which the finished package is formed.

2,653,432
SAUSAGE STUFFING MACHINE
Henry H. Wright and Clarence L. Harder, Fredericksburg, Va., assignors to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application May 19, 1949, Serial No. 94,164
2 Claims. (Cl. 53—61)



1. In an apparatus for the production of stuffed products, the combination of a stationary stuffing nozzle having an arcuate external conduit wall terminating in an open end for discharging a stuffing material therefrom, conduit means for directing a stuffing material into the other end of the nozzle, folding means adjacent the nozzle comprising an arcuate member having an internal guiding surface spaced from and extending around the nozzle wall to permit continuous passage of a sheet of flexible material between said internal guiding surface and the nozzle for folding the sheet about the nozzle and discharging it toward the discharge end of the nozzle with its opposite lateral edges overlapped in the form of a tubular casing, means adjacent the nozzle for supplying a self-sustaining strip of sealing material, means adjacent the folding means for guiding the strip of sealing material longitudinally from the supply means to a position between the overlapped edges, means adjacent said guiding means and said folding means for heating the strip as it passes to said position, a rotatable element adjacent the wall of the nozzle near the discharge end of the arcuate folding member, and means for urging the element toward said wall for applying pressure to the overlapped edges of the sheet passing between the element and the wall.

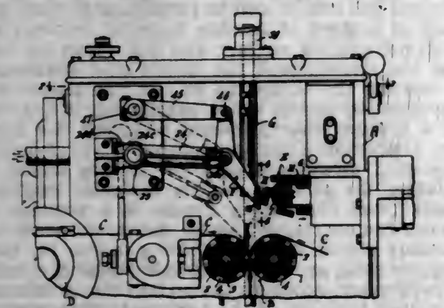
2,653,433
ARTICLE HANDLING MECHANISM
Oscar Sandberg, Toledo, Ohio, assignor to Lynch Corporation, Anderson, Ind., a corporation of Indiana
Application September 5, 1950, Serial No. 183,189
3 Claims. (Cl. 53—66)



1. In an article handling mechanism for a wrapping machine having a folding way, a pocket conveyor for conveying the articles to a wrapping position therebelow, a ram for engaging the articles and elevating them through the folding way, a supporting bar for the articles after they have been moved through the folding way and while the ram is being retracted, and means for supporting the articles in the pocket conveyor, on the ram, and on the supporting bar so that two stacks thereof may be wrapped side-by-side comprising pockets for the pocket

conveyor, said pockets extending outwardly from between said two stacks beyond the vertical center lines of said stacks, said ram having vertical supporting flanges for the articles which flanges extend from the outer edges of said stacks toward each other beyond said vertical center lines, the ends of said pockets being notched to permit clearance for said flanges, said flanges being arranged in pairs spaced from each other in the fore and aft direction in the machine, said supporting bar being narrower than the distance between said flanges so that it may pass upwardly between the flanges to engage the articles, and said supporting bar being longer than the distance between said vertical center lines.

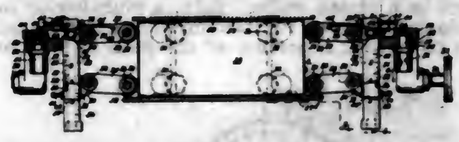
2,653,434
MACHINE FOR PACKAGING ODD-SHAPED PRODUCTS
Leroy L. Saifsberg, deceased, late of South Orange, N. J., by Herman G. Kopald, New York, N. Y., and Lloyd I. Veickening, Glen Ridge, N. J., executors, and Edward J. David, Hillside, N. J., assignors to Ivers-Lee Company, Newark, N. J., a corporation of Delaware
Application October 28, 1950, Serial No. 192,724
7 Claims. (Cl. 53—86)



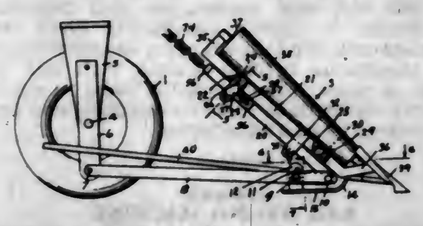
1. In a packaging machine which includes means for moving two webs of packaging material to bring portions thereof into close juxtaposition to each other to receive articles in succession between them and means for sealing said layers together in zones each surrounding an article to enclose the articles between said layers, the addition of means for feeding said articles in succession into a position adjacent said juxtaposed portions of said layers, a suction transfer member to transfer said articles from said feeding means and into a position between said juxtaposed portions of said layers of packaging material, and a pusher to engage and follow said articles from said suction transfer member into position between said layers of packaging material.

2,653,435
WRAPPER TUCKING MECHANISM
Robert E. Taggart, Toledo, Ohio, assignor to Lynch Corporation, Anderson, Ind., a corporation of Indiana
Application September 8, 1951, Serial No. 245,675
6 Claims. (Cl. 53—151)

1. Tucking mechanism for one of the end flaps of a rectangular tubular wrapper comprising a support, a pair of tucking elements, one for one side of said end flap and mounted stationary on said support, and the other for the other side of said end flap and mounted for movement on said support toward said first tucking element for small diameter packages and away from said first tucking element for larger diameter packages, the direction of such movement being substantially parallel to said diameter, said tucking elements being also movable together toward the axis of an article being wrapped in the wrapper for tucking said end flap, said other tucking element and said support having cooperating scale and pointer means to indicate the diameter of the package, means for effecting said first mentioned movement of said other tucking element relative to said support comprising a rod threaded in said other tucking element and rotatable relative to said support, and means constraining said rod against axial movement relative to said support.



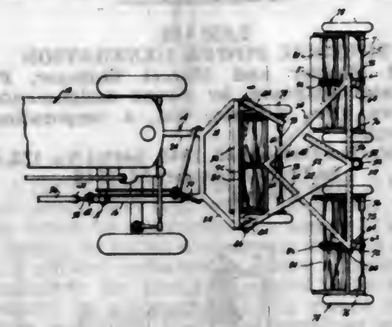
2,653,436
VINE DIVIDING MEANS
Thomas R. Warner, Gonzales, Calif.
Application September 6, 1949, Serial No. 114,267
5 Claims. (Cl. 56—1)



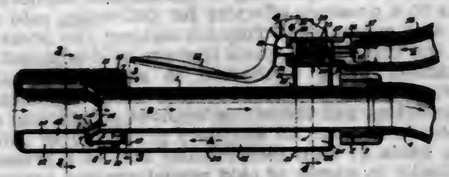
1. In a vehicle that includes wheels supporting the same for movement in one direction of travel over the ground, a vine divider adapted to be carried on said vehicle forwardly of each of said wheels relative to said direction of travel, said vine divider comprising an elongated track slantingly disposed relative to the ground with its lower end leading and its upper end rearwardly of said lower end relative to said direction of travel, a shoe secured to the lower end of said track for slidably engaging the ground and supporting the weight of said track, a forwardly extending member on said vehicle connecting said shoe with said vehicle, an elongated carriage mounted on said track for reciprocatory movement therealong; an elongated roller rotatably supported at its opposite ends on said carriage with its axis of rotation substantially parallel to said track, said roller being bodily movable with said carriage to a lower position under the influence of gravity and free for movement generally upwardly and rearwardly along said track under a predetermined rearwardly directed pressure on said carriage.

2,653,437
GRASS CUTTING ATTACHMENT FOR TRACTORS
Murrel Crump, Olathe, Kans.
Application November 2, 1951, Serial No. 254,479
3 Claims. (Cl. 56—7)

1. A mower attachment for tractors comprising a generally flat support frame adapted at one end for connection to the elevating frame of a tractor; said frame embodying a pair of upstanding arms having the lower ends adapted for connection to the elevating frame of a tractor, a pair of frame members arranged in converging relation having their divergent ends fixed to the upper ends of said arms, a vertically disposed open ended sleeve fixed to the convergent ends of said frame members; a mower unit frame arranged in a plane subjacent and parallel to the plane of the support frame, said mower unit frame being formed as an isosceles triangle the base leg of which has medially thereon an upstanding spindle pivotally connected to said sleeve for swiveling of the mower unit frame about an axis normal to both frames, said mower unit frame having a pair of legs extending from the ends of the base leg in rearwardly converging relation; a plurality of identical mower units of the type including a pair of ground wheels and a rotating reel powered from said wheels underlying the several corners of the mower unit frame; and means connecting the respective units to the mower unit frame at said corners thereof for swinging movement of each unit about an axis parallel to said mower unit frame and for movement bodily toward and away from the mower unit frame, said means being effective to cause each of said units to follow ground undulations encountered thereby independently of any other of the units.

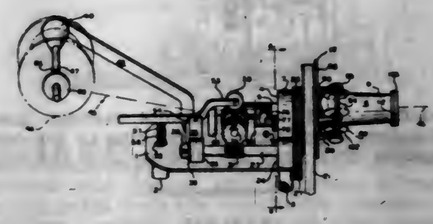


2,653,438
COTTON PICKER NOZZLE
Miguel Angel Ramirez, Sr., El Paso, Tex.
Application December 7, 1950, Serial No. 199,625
2 Claims. (Cl. 56—32)



1. A cotton picker comprising, a housing divided longitudinally into a tube and a crescent-shaped passage, the tube and passage lying parallel to one another, means coupled to one end of said tube to receive picked cotton from said tube, means to supply compressed air to the same end of said passage, the opposite end of said tube being flared, a nozzle connected to said housing adjacent the flared end of said tube, a cylindrical part on said nozzle directed inwardly and having its inward end tapered to form a restricted throat, said cylindrical part positioned with its tapered end within and spaced from the flared end of said tube whereby a conical annular passage communicating with said tube is formed between the tapered end of the cylindrical part of the nozzle and the flared end of the tube, said nozzle having a chamber surrounding said cylindrical part and having a port communicating with said crescent-shaped passage whereby compressed air from said crescent-shaped passage may enter said chamber and be directed rearwardly into said tube through said conical annular passage.

2,653,439
BINDING AND STEMMING MACHINE
Guy Angiolino and James Galuppo, Brooklyn, N. Y.
Application February 28, 1951, Serial No. 213,253
4 Claims. (Cl. 57—7)

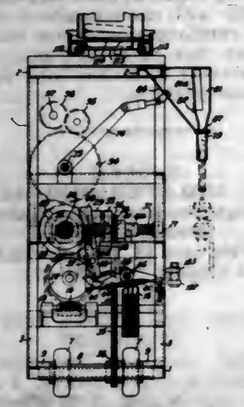


2. The combination, in a machine of the character described useful in the stemming and binding of artificial flowers, of a supporting casting, a rotatable spinner mounted on the casting, the spinner having an axial bore therethrough, motor means for rotating the spinner, drawing means for drawing stem wire from a supply reel and feeding it through the axial bore of the spinner, means operatively connecting the drawing means with the spinner whereby the drawing means is caused to operate with the rotation of the spinner, gluing means operatively connected to the spinner for coating the stem wire with glue immediately prior to its passing through the axial bore of the spinner, and wire sheathing means operatively connected with the spinner for sheathing the stem wire with binding material as the stem wire issues from the spinner, the means for drawing the stem wire from the supply reel comprising a gripping wheel having knurls in its peripheral surface for gripping the stem wire, a disc constantly tensioned against the peripheral surface of the gripping wheel for pressing the stem wire into gripping contact with the knurled surface of the gripping wheel, and a shaft secured to the gripping wheel and adapted for rotation with the spinner.

2,653,440
MEANS FOR DOFFING RING FRAMES
Harold Partington, Chadderton, England
Application January 10, 1950, Serial No. 137,766
In Great Britain January 15, 1949
6 Claims. (Cl. 57—53)

1. Means for donning empty bobbins on to ring frame spindles comprising a magazine, which may be removable, divided into vertical compartments, each to hold a supply of horizontally-disposed bobbins, a pair of slotted sliding plates below the magazine movable relatively to each other as well as together so as to receive and discharge bobbins one by one from the magazine compartments, a horizontally slidable member having vertical compartments, one for each bobbin to be doffed, a hinged rear wall on said compartments, and means for lowering the wall to

an inclined position when below the magazine, and raising it and the bobbins thereon to a vertical position as it moves out over the spindles to



be doffed, said compartments having timed mechanism, supporting the bobbins in the compartments until they are directly over the spindles.

2,653,441

YARN MADE OF BLENDED FIBERS

Anton F. Burkardt, New York, N. Y., assignor to Sativa Corporation, a corporation of New Jersey

No Drawing. Application March 20, 1951, Serial No. 216,675

3 Claims. (Cl. 57—139)

1. A yarn composed of a selected blend of degummed bast fibers of natural staple length composed of uncut unbroken fibrils some of which have a natural axial twist in one direction and another fiber having a natural axial twist in the opposite direction.

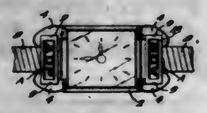
2,653,442

RETAINER FOR INITIALS OR OTHER INDICIA, AND A WATCH CONSTRUCTION CONTAINING SAME

Edward Kupchick, Brooklyn, N. Y., assignor to Benrus Watch Company, Inc., New York, N. Y., a corporation of New York

Application November 8, 1950, Serial No. 194,632

15 Claims. (Cl. 58—88)



1. A retainer for removable indicia comprising a housing having side walls, an open bottom through which indicia may be inserted thereinto, and a top having an area through which indicia cannot pass but through which said indicia can be viewed, and a closure articulately mounted between said side walls and spaced from said top so that indicia may be retained in said space, said closure being movable between a retaining position substantially parallel to and within said housing, the open bottom being effectively closed thereby, and a releasing position at least partially out of said housing, the open bottom being effectively exposed thereby, one of said side walls having an aperture therein and said closure having an arm resiliently mounted thereon and carrying a projection engageable in said aperture when said closure is in retaining position, said arm being accessible so that inward pressure thereon from the outside of said housing will cause said arm to be moved inwardly from said one of said side walls toward the other side wall and thus disengage said projection from said aperture, thereby permitting said closure to move to releasing position said arm and said closure having cooperating cam surfaces effective, when said arm is moved inwardly, to engage and cam said arm downwardly, so that when said arm is released after having been moved inwardly a predetermined distance, said projection will be out of registration with said aperture.

2,653,443

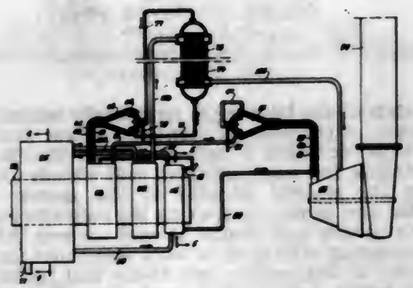
THERMAL POWER GENERATION

Ernest Mercier and Marcel Ehlinger, Paris, France, assignors, by mesne assignments, to Moore, Inc., Atlanta, Ga., a corporation of Georgia

Application October 25, 1949, Serial No. 123,476

In France October 28, 1948

22 Claims. (Cl. 60—13)



1. Power generating plant comprising means providing a combustion chamber for combustion of fuel therein, means for effecting combustion of fuel in said combustion chamber to produce gases at a predetermined pressure substantially above atmospheric pressure, a main gas utilizing prime mover connected to said combustion chamber for utilizing the gases therefrom under said predetermined pressure to develop power in said prime mover by expansion of said combustion gases, means for compressing a combustion supporting gas to a pressure effective for delivering said gas to said combustion chamber against the pressure of the combustion gases therein, said combustion chamber being connected to said compressing means to receive said compressed combustion supporting gas therefrom without substantial expansion thereof, an auxiliary prime mover utilizing gases at high temperature and at a pressure initially in excess of said predetermined pressure to develop power therefrom by expansion thereof to an exhaust pressure substantially corresponding to said predetermined pressure of said gases in said combustion chamber, said auxiliary prime mover being operatively connected to said compressing means for driving said compressing means independently of said main prime mover to effect said compression of said combustion supporting gas, and means for delivering the exhaust gases from said auxiliary prime mover driving said gas compressing means to said combustion chamber to be delivered therefrom with and to cooperate with said gases produced in said combustion chamber for developing power therefrom in said main prime mover upon further expansion thereof from said exhaust pressure.

2,653,444

ACCESSORY SYSTEM AND FILTER THEREFOR

John R. Oishei, Buffalo, N. Y.

Application April 8, 1950, Serial No. 154,803

3 Claims. (Cl. 60—19)



1. A motor vehicle having an engine of the internal combustion type with a crankcase, an air pump driven by the engine as a supply of suction and having its outlet discharging into the crankcase, a suction actuated accessory connected by a passage to the pump, a control valve for the accessory, an automatic venting means for the passage responsive to a predetermined pressure differential set up by the control valve when discontinuing the use of the accessory for opening the passage to the atmosphere, and vibration responsive means for maintaining a clean inflow of air through the open venting means.

2,653,445

TURBOCOMPRESSOR JET-PROPULSION APPARATUS AND ADJUSTABLE NOZZLE THEREFOR

Frank Bernard Halford, Edgware, and Eric Stanley Moult, Hatch End, England, assignors to The De Havilland Aircraft Company Limited, Hatfield, England, a company of Great Britain

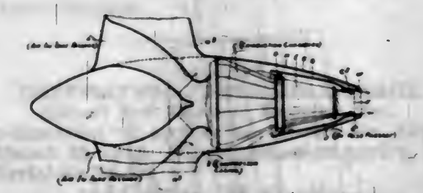
Application June 19, 1946, Serial No. 677,695

In Great Britain May 11, 1945

Section 1, Public Law 690, August 8, 1946

Patent expires May 11, 1965

4 Claims. (Cl. 60—35.6)



1. Turbo-compressor propulsive apparatus of the type comprising a compressor, means for admitting air to said compressor and means for passing air around said compressor, at least one combustion chamber into which air is delivered by the compressor and wherein fuel is burnt, a turbine driven by hot gases from the combustion chamber, the turbine being co-axial with and rotatably connected to the compressor to drive it, and a nozzle from which the gases which have passed through the turbine issue with propulsive effect, in combination with an adjustable sleeve surrounding and spaced from the nozzle to permit passage therebetween of said air passed around said compressor, and means for extending the sleeve in the direction of its axis relatively to the nozzle so as to project beyond the mouth of the nozzle, the end of the projected sleeve thereby forming the effective mouth of the nozzle, whose cross-sectional exit area is correspondingly increased with consequent reduction in the velocity of the propulsive jet.

2,653,446

COMPRESSOR AND FUEL CONTROL SYSTEM FOR HIGH-PRESSURE GAS TURBINE POWER PLANTS

Nathan C. Price, St. Helena, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.

Application June 5, 1948, Serial No. 31,348

12 Claims. (Cl. 60—35.6)



3. In a power plant having a compressor system, a combustion chamber receiving compressed air from said system, and a turbine driven by the hot gases from the combustion chamber and including a casing, and a bladed rotor operable in the casing to drive the compressor system; the combination of stator blades in the casing having air passages discharging into the casing, means on the leading edges of said blades for injecting fuel into the casing, and duct means for carrying compressed air from an intermediate portion of the compressor system to said passages for discharge into the casing.

12. In a power plant having a compressor system, a combustion chamber receiving compressed air from said system, a turbine unit including a turbine driven by the hot gases from the combustion chamber and a tail pipe for exhausting the gases from the turbine; the combination of means for introducing fuel into the tail pipe, the combustion of the fuel from said means in the tail pipe causing variations in the volumetric flow and pressure in the tail pipe under different conditions of operation, a propulsive nozzle for the outlet of the tail pipe, a member movable in the nozzle to vary the effective flow passage area thereof, and means operable in response to the differentials in pressure in the nozzle and a point in the tail pipe adjacent the region of introduction of fuel therein by said fuel introducing means for moving the member including a cylinder and piston device for moving the member, the cylinder of said device having one end in communication with the nozzle, and a pipe having one end in communication with the other end of the cylinder and having its other end in communication with the tail pipe at said point.

2,653,447

COMBINED CONDENSING VAPOR AND GAS TURBINE POWER PLANT

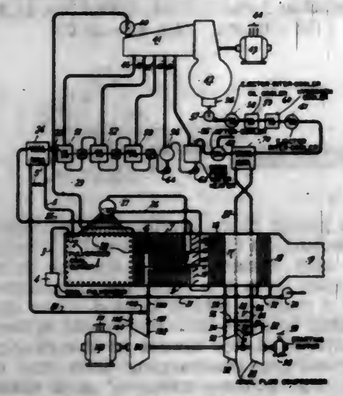
Lewis W. Heller, Yardley, Pa., assignor to The Babcock & Wilcox Company, New York, N. Y., a corporation of New Jersey

Application October 31, 1946, Serial No. 706,926

26 Claims. (Cl. 60—49)

6. In a binary fluid power plant, a heat absorbing unit comprising a steam generator, a high temperature pressure air heater, a low temperature pressure air heater having a discharge connection to said high temperature air heater, and fuel fired means arranged to supply heating gases

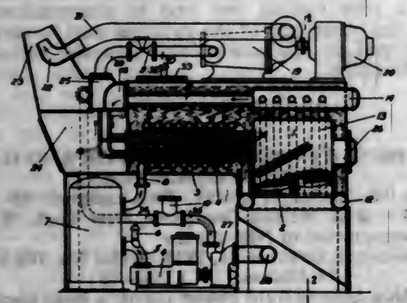
to said steam generator and said air heaters, a power driven air compressor, an air discharge conduit connection from said compressor to said low temperature air heater, a multiple pressure stage aerodynamic prime mover, a discharge conduit connection from said high temperature air heater to said aerodynamic prime mover, an exhaust air connection from an intermediate pressure stage of said prime mover to said fuel fired means, a heating gas flow pass containing said air heaters in spaced position relative to gas flow, and an exhaust air connection from the final stage of said prime mover to said gas pass at a



position rearward of a major portion of the heating surface of said high temperature air heater.

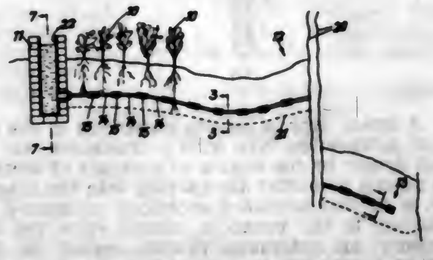
19. In a binary fluid power plant, a heat absorbing unit comprising a steam generator, a high temperature air heater, and regulable fuel burning means arranged to supply heating gases to said generator and said air heater, compressor means arranged to supply air under pressure to said air heater, conduit means connecting the air outlet of said air heater to said fuel burning means, means responsive to the rate of steam delivery from said steam generator, means responsive to the temperature of the air discharge from said air heater, and means jointly responsive to both of said responsive means for regulating said fuel burning means.

2,653,448
HEATED PRESSURE AIR-DRIVEN POWER PLANT
John J. Kupka, Gladstone, N. J.
Application May 18, 1949, Serial No. 93,949
2 Claims. (Cl. 60—59)



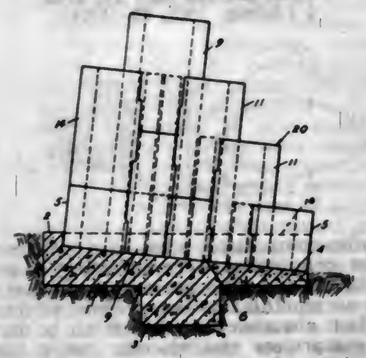
1. In a combination hot air operated heating and power plant, a fired vessel, a heat transfer medium within said fired vessel, a means to keep the pressure of said heat transfer medium at a selected magnitude, a means to keep the temperature of said heat transfer medium within selectively pre-determined limits, an air compressor and a driving means therefor, a means to augment the heat content of the pressure air delivered by said air compressor from the heat stored and generated within aforesaid fired vessel.

2,653,449
SOIL IRRIGATION SYSTEM
Fritz Stauch, Greater Berlin, Germany
Application February 15, 1949, Serial No. 76,494
In Germany October 1, 1948
9 Claims. (Cl. 61—13)



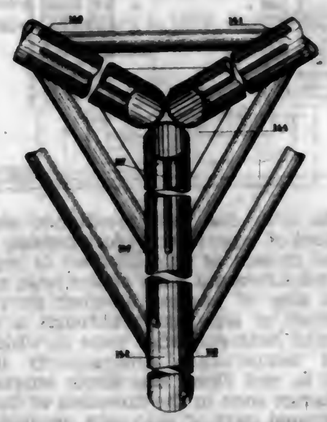
1. An irrigation system for uneven territory comprising an irrigation conduit adapted to be connected with a water supply, a plurality of subterraneous pervious irrigation tubes communicating with said conduit and positioned within an uneven plane substantially equidistant of the surface of said territory, and means combined with said tubes for differential restriction of their degree of perviousness substantially inversely proportional to the pressure prevailing within said tubes at different points thereof.

2,653,450
RETAINING WALL STRUCTURE
Lena M. Fert, Harborcreek Township, Erie County, Pa.
Application August 4, 1949, Serial No. 108,661
1 Claim. (Cl. 61—39)



A retaining wall for supporting loose material along one side thereof comprising a footing, the top surface of said footing being downwardly inclined toward the material to be supported, the outer top edge of said footing having an upwardly extending flange, and a plurality of rows of transversely extending open ended blocks arranged on said footing, each block having a plurality of equally spaced slots in the periphery thereof extending longitudinally thereof, said blocks stacked in tiers transversely of the wall and interlocked by means of said slots, the uppermost tier of blocks of each stack being offset longitudinally of the wall and interlocking adjacent transverse stacks of blocks together.

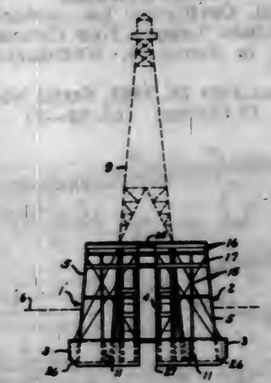
2,653,451
PEDESTAL
Stirling E. McCullough, Houston, Tex., assignor to Brown and Root, Inc., Houston, Tex., a corporation of Texas
Application July 2, 1948, Serial No. 36,594
1 Claim. (Cl. 61—46)



A pedestal skeleton comprising at least three pipes angularly disposed to each other and converging to form a tripod-like structure, the axes of the pipes at the level of the upper ends of the pipes approaching intersection within a distance of the order of magnitude of the diameters of the pipes and at the level of the bottom ends of the pipes being spaced apart with at least three of the pipe axes not in the same plane, means securing the pipes together at their tops, braces interconnecting the pipes beneath their tops, and a series of grout lines running from the top of each pipe to different levels therebelow ranging from the bottom to the top of the pipe and in communication at their lower ends with the interior of the pipe.

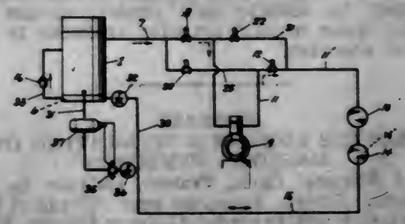
2,653,452
DEEPWATER SUBMERSIBLE BARGE
Robert A. J. Dawson, Houston, Tex.
Continuation of application Serial No. 584,230, March 23, 1945. This application April 6, 1949, Serial No. 85,931
4 Claims. (Cl. 61—46)

4. A submergible bare for submarine operations comprising a principal apparatus including a hollow totally closed water-tight submersible base pontoon, means to introduce ballast into said base pontoon and to withdraw ballast from said base pontoon, said base pontoon having sufficient buoyancy when without ballast to float the entire barge, an openwork rigid supporting structure secured to said base pontoon and rising thereabove, and a floor carried by said structure above said base pontoon and spaced therefrom a substantial distance whereby when said base pontoon is sunk to the marine bottom in water having a lesser depth than the height of said base pontoon plus said distance said floor will be above water; a supplemental pontoon, rigid means connected to said apparatus constraining said supplemental pontoon to motion relative to said apparatus along a predetermined path, said path including a position in which the center of displacement of the supplemental pontoon is above that of said base pontoon and a position in which the center of displacement of said supplemental pontoon is close to that of said base pontoon and successive positions intermediate therebetween as regards the vertical component of the distance between the centers of displacement of said pontoons, means to introduce ballast into and to withdraw ballast from



said supplemental pontoon, said supplemental pontoon when without ballast being buoyant but having less buoyancy than said base pontoon when without ballast, and means for anchoring said supplemental pontoon at a desired position along said path against upward movement relative to said base pontoon, said means for anchoring being adjustable as to the position along said path at which said supplemental pontoon is anchored, said distance of said floor above said base pontoon being independent of the position at which said supplemental pontoon is anchored.

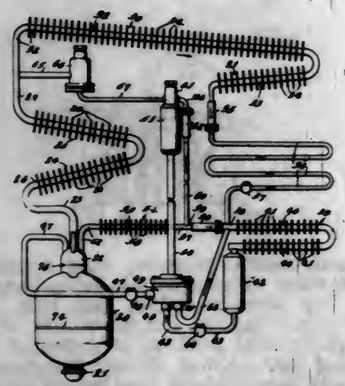
2,653,453
ICE-MAKING MACHINE
Jesse D. Williams, Jr., Shively, Ky., assignor to Henry Vogt Machine Company, Louisville, Ky., a corporation of Kentucky
Application August 5, 1949, Serial No. 108,783
6 Claims. (Cl. 62—3)



1. A reverse cycle refrigerating system operating alternately on freezing and thawing cycles comprising: a compressor; an evaporator chamber having tubes extending therethrough for receiving liquid to be frozen, said chamber being connected to the inlet side of the compressor and having a heating chamber adjacent the lower end of said tubes; a condenser and reservoir connected to the pressure side of the compressor; cycle control means to interchange the reservoir and evaporator with the compressor inlet and outlet; liquid flow means including a vapor trap connecting the reservoir, heating chamber and

evaporating chamber in series for flow of liquefied refrigerant from the reservoir to the evaporating chamber; and reverse liquid flow means connecting the evaporating chamber with the reservoir including a vapor trap to allow rapid flow of liquid refrigerant and prevent flow of gas from the evaporating chamber to the reservoir.

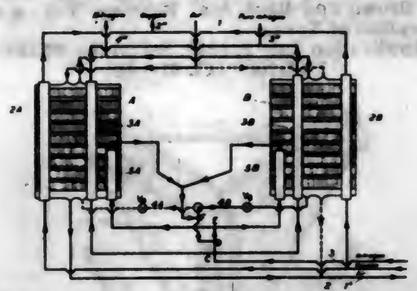
2,653,454
CONTINUOUS ABSORPTION REFRIGERATION SYSTEM
Jules Buchel, Covington, La., assignor of one-third to Eliska Louque, New Orleans, La., and one-third to James A. Whittington, Evanston, Ill.
Application July 26, 1949, Serial No. 106,818
13 Claims. (Cl. 62—5)



1. In a heat exchange unit of the character described generating means for producing a vapor; means for condensing said vapor; a heat exchange unit to evaporate said condensed vapor and absorb heat to effect cooling exteriorly thereof; an absorber connected to said heat exchanger unit; a transfer chamber for receiving a liquor from said absorber and vapor from said generating means; control means selectively operable to deliver said liquor to said generating means and vapor to said absorber; and expansible means associated with said transfer chamber and control means operative upon the generation of heat by the absorption of a portion of said vapor by said liquor in said transfer chamber to actuate said control means and permit vapor in said transfer chamber to pass to said absorber.

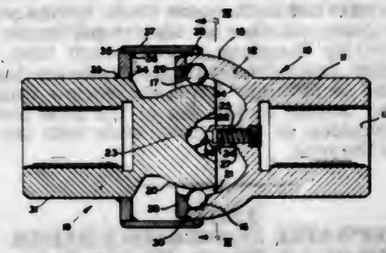
2,653,455
PROCESS FOR COLD SEPARATION OF GASEOUS MIXTURES
Alfred Etienne, Paris, France, assignor to l'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude, Paris, France
Application December 15, 1950, Serial No. 201,037
In France January 4, 1950
2 Claims. (Cl. 62—175.5)

1. In the method of separating a gaseous mixture into its components by liquefaction and rectification and comprising passing the mixture through a reversing heat exchange zone along a path therein progressively decreasing in temperature from one end to the other to cool the mixture and thereby effect precipitation of a component having a higher boiling point, subsequently stopping the flow of the mixture through the zone, passing a stream of a cold product of separation of the mixture through the same path of the heat exchange zone in a direction opposite that which the mixture was passed and in direct contact with the precipitated component to evaporate said component, passing a second stream of the same cold product of separation through the heat exchange zone in indirect heat exchange relation with the coldest part of said path, and combining said second stream of cold product of



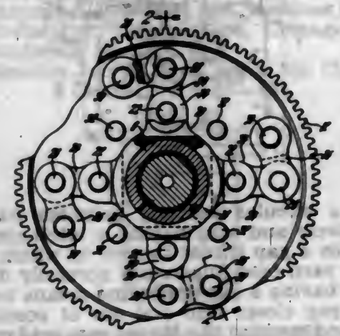
separation with the first mentioned stream of cold product of separation before passing the first mentioned stream of cold product of separation through the aforesaid path of the heat exchange zone, the step of passing another part of said cold product of separation through a separate path in said heat exchange zone in which latter path the temperature progressively increases from end to end along the whole length of the heat exchange zone in the direction of flow of the last mentioned part of said cold product.

2,653,456
UNIVERSAL JOINT
Lothar S. Heym, Youngstown, Ohio
Application November 8, 1950, Serial No. 194,715
2 Claims. (Cl. 64—7)



1. In a universal type drive the combination of a female member having at one end a bulbous socket defined by two concentric spherically-shaped surfaces, said female member having a multiplicity of circumferentially spaced axial bores positioned in the wall section between said spherically-shaped surfaces in open communication with at least the inner of said surfaces, a male member having at one end a spherically-shaped head and having a multiplicity of circumferentially spaced grooves therein adapted for registry with said communicating axial bores, a multiplicity of balls adapted to be retained in said axial bores and adapted to engage said grooves in said male member, a ring member adapted to be retained on the open end of said female member to thereby substantially prevent the axial movement of said male member with respect to said female member and of said balls in said axial bores, said grooves being of greater circumferential dimensions than the circumferential dimensions of said balls whereby said male and female members may have angular driving relation and means comprising a pilot ball retained in said male member and a compressible coil spring retained in said female member to maintain said male and female members under constant tension.

2,653,457
FLEXIBLE LINK DRIVE FOR ISOLATING TORSIONAL VIBRATION
Robert W. Guernsey, Detroit, and Ray C. Ulrey, Livonia, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 2, 1950, Serial No. 142,945
1 Claim. (Cl. 64—12)



A torsional vibration absorbing coupling for rotating members including: a driving member, a driven member, said members being rotatable substantially concentric with each other, a first set of torque-transmitting links pivotally supported on one of said members at spaced circumferential points, a second set of torque-transmitting links pivotally supported on the other of said members at spaced circumferential points and at a greater radial distance from the center of rotation of said members than the pivotal supports of said first set of links, each of said sets consisting of more than two links, means for pivotally attaching said second set of links to said first set of links in angular relationship to form a plurality of linkage pairs adapted and arranged to transmit equal amounts of torque between said members during driving rotation, each of said linkage pairs extending in the same circumferential direction, and the pivotal supports of the first set of links having permissive ranges of movements on both sides of imaginary lines drawn from the pivotal attachments between the sets of links and the center of rotation of said members and pin elements mounted on one of said members, said pin elements abutting the other of said members when the angular displacement between said members is a predetermined amount, said pins being spaced from the abutting portions of said other member a distance less than the overall extended length of the attached links.

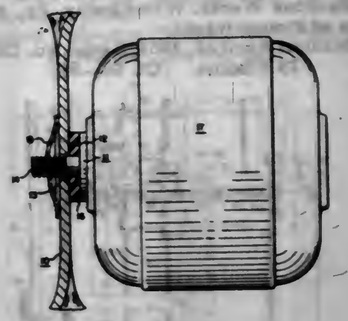
2,653,458
CENTRIFUGAL CONTROL MECHANISM
Albert Andrews, Fort Collins, Colo.
Application December 26, 1947, Serial No. 793,914
3 Claims. (Cl. 64—25)

1. In centrifugal control mechanism for an internal combustion engine or the like, including a rotating timing shaft, a rotating driving element, and means connecting said element with said shaft, the improvement which includes a yoke directly connected to said shaft and having spaced extending arms; centrifugal arms pivoted on said rotating element at spaced points, each said centrifugal arm having a cam section and



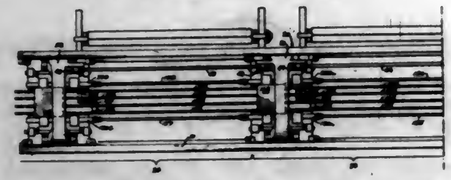
said arms being so pivoted that the cam can engage a yoke arm to move said yoke and shaft relatively to said driving element; a loop extending around each said yoke arm and connected to said driving element at said pivot points; and a compression spring within each said loop and acting between said loop and said yoke arm.

2,653,459
FAN BLADE MOUNTING
Lyall D. Merrill, Fort Wayne, Ind., assignor to Olga B. Merrill
Application December 22, 1949, Serial No. 134,444
4 Claims. (Cl. 64—27)



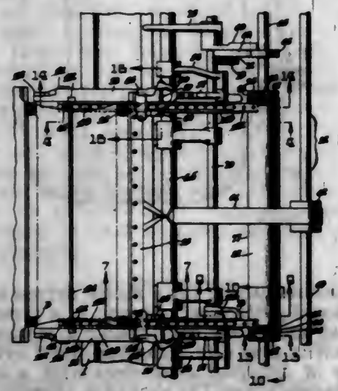
1. A fan mounting for a motor driven fan having an axially disposed opening of a given diameter, said mounting comprising a motor driven shaft having first and second co-axial cylindrical portions of different diameters with a shoulder therebetween normal to said axis, threads on said first portion of smaller diameter, said first portion having a diameter slightly less than said given diameter to receive said fan thereon, a resilient washer abutting said shoulder and disposed about said first cylindrical portion, and a nut of spring steel having thread engaging portions engaging said threads and having a face portion engaging said fan about said opening therein, said nut having sufficient elasticity and strength along said axis to maintain a radial spacing between said fan opening and said first cylindrical portion and to press sufficiently tightly against said fan to prevent rotational slippage between said nut, fan, washer and shoulder.

2,653,460
KNITTING MACHINE
Michael Zimic, New York, and Anton Miskovsky, Deer Park, N. Y.; said Miskovsky assignor to said Zimic
Original application September 13, 1945, Serial No. 615,936. Divided and this application September 19, 1949, Serial No. 116,487
5 Claims. (Cl. 66—63)



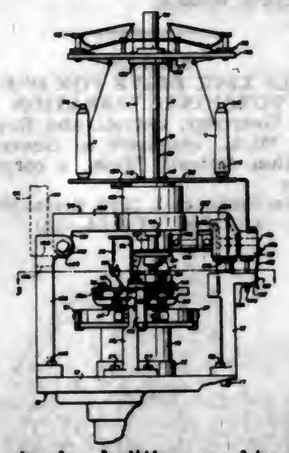
1. In a links and links knitting machine: a needle bed; a needle movably disposed on said bed; a jack having a pair of spaced butts projecting therefrom, said jack being movably supported by the bed and adapted to shift said needle; a carriage movable along said bed, said carriage having cam surfaces and an independently movable gate cam, adapted in an active position thereof to engage one of said butts and in an inactive position thereof to clear said butt; said gate cam being positioned in the line of motion of said cam surfaces; whereby when the gate cam is in the inactive position thereof said cam surfaces may pass between said butts, the jack remaining stationary.

2,653,461
DRAWOFF TENSIONING MEANS FOR KNITTING MACHINES
Gottlob Bitzer, Lincoln Park, Pa., assignor to Textile Machine Works, Wyomissing, Pa., a corporation of Pennsylvania
Application April 12, 1951, Serial No. 220,563
38 Claims. (Cl. 66—96)



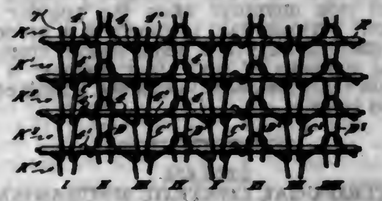
1. In a straight knitting machine having welt wires and welt wire engaging hooks, a mechanism for moving said hooks toward and away from the needles comprising a set of draw-off rollers coaxial with a common shaft therefor, means to connect said rollers to said shaft, means to release said shaft from said rollers for free movement of the shaft, straps mounted to move with said shaft in both directions and having said welt wire engaging hooks fixed thereon, and means to turn said shaft in one direction to move said hooks toward the needles and in the other direction to draw off fabric after engagement of the hooks with said welt wires.

2,653,462
WRAP STRIPE ATTACHMENT FOR KNITTING MACHINES
Benjamin H. Jordan, High Point, N. C.
Application August 6, 1951, Serial No. 240,459
6 Claims. (Cl. 66—125)



1. In a circular knitting machine having a needle circle and also having a latch ring provided with a gap throat therein in which a plurality of yarn feed fingers are normally disposed and also having a gap closer and means for moving the gap closer into and out of position for closing and opening the throat gap, said machine also having a frame and also having a wrap stripe attachment including a driven rotatable disk disposed closely adjacent the upper surface of the latch ring and being fixed on the lower end of a driven vertically disposed wrap shaft whose axis is disposed in a vertical plane and to one side of the axis of the needle circle, said machine also having means for feeding wrap yarns to the wrap disk and also having means for raising certain of the needles to take the wrap yarns from the wrap disk, a pattern controlled deflector finger disposed in a horizontal plane between the lower surface of the wrap disk and the upper surface of the latch ring and movable in a horizontal plane for selectively deflecting the wrap yarns which normally extend from the wrap disk to the needles inwardly to cause the needles to clear the wrap yarns as they move adjacent the wrap disk.

2,653,463
ELASTIC RIB KNITTED FABRIC
Cornelius A. Crimmins, Stoughton, Mass.
Application September 10, 1949, Serial No. 114,995
10 Claims. (Cl. 66—190)



1. A rib knitted one-way stretch elastic fabric comprising courses formed of rib stitches and plain stitches, sinker bights uniting the respective legs of each rib stitch to the adjacent legs of the plain stitches to the right and left respectively of said rib stitch in the same course, and elastic yarn extending in substantially straight runs transversely of the fabric and located in front of the rib stitches and behind the plain stitches, the sinker bights which extend from the respective legs of each alternate rib stitch in a given course wrapping the elastic yarn, one of said bights passing down behind the elastic yarn and then forwardly and up about the elastic yarn to its junction with the adjacent leg of the next plain stitch and the other of said bights passing downwardly behind the elastic yarn, then upwardly and forwardly about the elastic yarn, then down behind the elastic yarn and then forwardly to its junction with the adjacent leg of the next plain stitch.

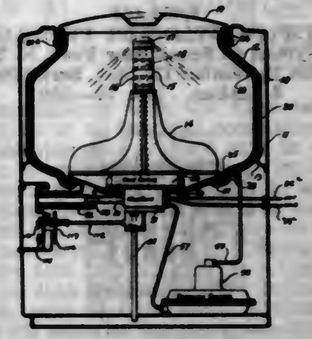
2,653,464
INCANDESCENT MANTLE MOUNTING
Carl Bramming, Anderson, Ind., assignor to Aladdin Industries, Incorporated, Chicago, Ill., a corporation of Illinois
Application July 18, 1950, Serial No. 174,497
3 Claims. (Cl. 67—38)



1. An incandescent mantle mounting adapted to support mantles of varying length at a uniform height without loss of efficiency comprising, a U-shaped harp adapted to support the mantle, an annular base adapted to be received on a burner and having a pair of radially spaced wall portions defining an annular channel to receive the skirt of a mantle, a pair of diametrically opposed ears formed from the material of said base and extending outwardly and upwardly from the outer wall portion and in their upwardly extending portions defining a pair of substantially parallel vertically extending fragmentary sleeves adapted to receive the ends of the harp and to be pinched thereon, and an auxiliary annular member formed from a piece of sheet material and adapted to be positioned over the base, said member defining a mantle restraining ring to confine short mantles in position, the member having a pair of diametrically opposed outwardly extending flat ears positioned over the ears of the base, the ears of said member being formed to define in their outer edges a pair of notches positioned for partial embracing of the lower ends of said harp below the lower edges of the fragmentary sleeves.

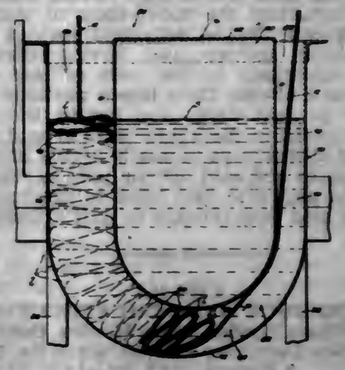
2,653,465
CLOTHES-WASHING MACHINE HAVING A SQUEEZE BAG EXTRACTOR
Henry Baade, Cleveland, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Original application April 12, 1946, Serial No. 661,962. Divided and this application May 26, 1949, Serial No. 95,200
10 Claims. (Cl. 68—21)

1. In a machine for washing clothes and the like and for expressing washing water therefrom, the combination of a tub for containing a body of washing water and the clothes to be washed, an agitator disposed within the tub for agitating the clothes in the body of washing water, said tub having a bottom wall and a side wall structure connected to the bottom wall and extending thereabove, said side wall structure being formed, at least in part, of flexible, deformable material which encompasses the agitator, said side wall structure defining an access opening at the upper end thereof for the ingress and egress of the fabrics, means extending through said bottom wall



for actuating said agitator relative the tub, a cover for closing the access opening, means for creating a pressure differential between the inner and outer surfaces of said flexible side wall structure to force said flexible side wall structure towards said agitator and means for discharging the expressed water from the interior of the tub.

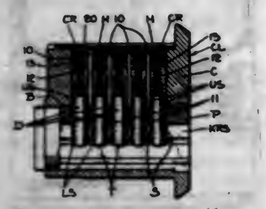
2,653,466
APPARATUS FOR SEPARATING PIECES OF FABRIC JOINED BY SOLUBLE THREADS
John H. McCusker, Dallas, Pa., assignor to Native Laces & Textiles, Incorporated, New York, N. Y., a corporation
Application February 21, 1948, Serial No. 10,895
2 Claims. (Cl. 68—178)



1. Apparatus for disintegrating into separate bands a fabric sheet in which they extend longitudinally thereof in side-by-side relation to each other and are joined by soluble threads, comprising a tank for a solvent, said tank having a first U-shaped wall having opposite wall portions and a curved connecting wall portion into which said opposite wall portions merge tangentially, other walls on the opposite sides, respectively, of said first wall forming with the latter a container the width of which is measured across said other walls and the bottom of which is formed by said curved wall portion, and a U-shaped partition in said container extending between said other walls and being so unevenly spaced from said first wall as to define in said container a U-shaped unim-

peded passage of which the opposite portions are of different breadth transversely of the width of said container and the connecting portion is of gradually varying breadth, the bottom of said partition being perforated whereby to provide fluid communication through said partition to said passage.

2,653,467
ANTIPICK CYLINDER TYPE LOCK
Hyman R. Segal, New York, N. Y.
Application November 17, 1951, Serial No. 256,894
3 Claims. (Cl. 70—359)



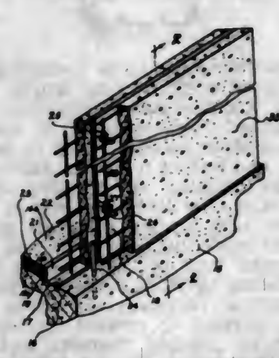
1. In an anti-pick lock, a casing having a longitudinally arranged cylindrical bore and spaced openings normal to said bore and communicating therewith, a cylindrical plug rotatably guided by said bore and including a longitudinally disposed key receiving slot and having spaced holes adapted to register with said openings, an upper set of sleeves slidably guided by said openings, driving pins slidably guided by said sleeves, a lower set of sleeves slidably guided by said holes, tumbler pins slidably guided by said lower set of sleeves, carriers slidably guided within and at the upper parts of said openings, each of said carriers having a reduced shank and a reduced stem depending from said shank, outside helicoidal springs having their upper portions tightly retained on said shanks and having their lower portions abutting the upper faces of said upper set of sleeves, inside helicoidal springs within said outside springs and having their coils pitched oppositely to the coils of said outside springs and having their upper portions tightly retained on said stems and having their lower portions abutting the upper faces of said driving pins, and said springs normally urging said upper set of sleeves and said driving pins to removably project in part into said holes to preclude rotatation of said plug relative to said cylinder.

2,653,468
BOMBPROOF BUILDING STRUCTURE
William Rowles, Santa Monica, Calif.
Application December 31, 1949, Serial No. 136,256
3 Claims. (Cl. 72—1)



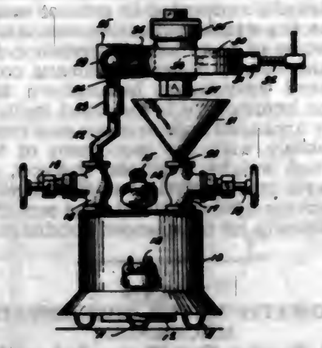
1. In a bomb-proof housing structure: an open-top housing defining a pit adapted to contain a building; said housing having opposed parallel side walls; parallel horizontal tracks on said side walls; a pair of bomb-proof cover slabs having roller supports travelling on said tracks in a common horizontal plane, between inner limit positions in which said slabs meet at the transverse median vertical plane of the housing to close the top of said pit, and retracted positions separated so as to uncover said pit to allow a building to be elevated or lowered past said slabs; building elevating means having a vertically movable part, and building support means mounted on the upper end of said part; said elevating means being operable to elevate a building to a position above the plane of the top surface of said slabs whereby the latter may be brought together beneath the raised building and provide a supporting base therefor; said elevating means being operable to lower the building into said pit when said slabs are retracted, to a position in which said slabs may again be brought together above said building said slabs having adjacent ends provided with mating indentations cooperatively defining an opening coaxial with said vertically movable part when said slabs are brought together.

2,653,469
BUILDING WALL CONSTRUCTION
Patrick J. Callan, Manhasset, N. Y.
Application June 12, 1948, Serial No. 32,696
1 Claim. (Cl. 72—50)



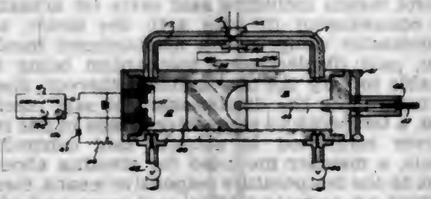
A poured building wall and floor construction comprising an integral concrete wall foundation and floor supporting base, the top surface of the foundation having a central groove running longitudinally therealong, a vertically extending flat-surfaced insulating board having its lower edge seated in the groove and confined against lateral displacement, upwardly extending retaining pins seated in said foundation, concrete reinforced by metallic rods, extending vertically on opposite sides of the insulating board, said concrete being of equal thickness on both sides of said board and supported upon the foundation surface with the upper portions of the pins embedded in said concrete, offset spacers extending through said insulating board and tied to said metallic rods, said foundation surface off-set downwardly from the top surface of the supporting base with a vertically extending shoulder formation therebetween, a poured floor lying over the floor supporting base and extending laterally from said shoulder formation, the concrete providing an inner wall surface spaced from the shoulder formation and from the edge of the floor, and an insulating piece coated with waterproof material extending along the shoulder formation and floor serving as a cushioning device to take up the expansion of the floor.

2,653,470
RADIATOR VALVE TESTER
Maxwell Couper, Lawrence, Kans.
Application August 12, 1948, Serial No. 44,191
1 Claim. (Cl. 73—1)



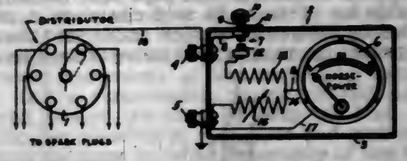
A radiator valve tester for valves having a laterally extending inlet port and a dependant outlet port comprising a boiler, an electrical heating unit affixed to the bottom of the boiler, a source of electrical energy for the heating unit, a pair of valved fittings in the top of the boiler, a funnel connected to one of the fittings, a head having a passage therethrough and adapted to receive the inlet port of a valve to be tested, a pipe interconnecting the head with the other valved fitting and a clamp for holding the valve to be tested with its discharge opening above the funnel said clamp being pivoted to the head and having an inwardly directed pointed shaft threadably mounted at a point opposite the pivotal connections with the head.

2,653,471
THERMOACOUSTIC GAS ANALYZER
Dayton H. Clewell, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application June 14, 1948, Serial No. 32,863
5 Claims. (Cl. 73—24)



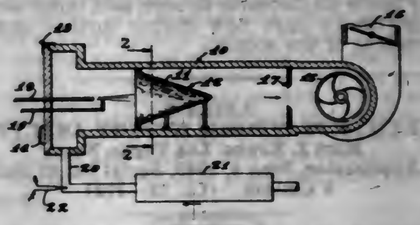
1. A gas analyzing apparatus comprising a piston disposed between a pair of gas chambers, a flow channel interconnecting said chambers, thermal means disposed within one of said chambers for producing pressure variations therein, means for adjusting the position of said piston to increase the volume of one chamber while decreasing the volume of the other chamber until the displacements within said flow channel due to said pressure variations are resonant, and means in said flow channel for measuring the amplitude of said displacements therein.

2,653,472
POWER INDICATING INSTRUMENT
Charles R. Gibson, Richmond, Va.
Application March 6, 1950, Serial No. 147,868
9 Claims. (Cl. 73—116)



1. In combination with the high tension ignition system of an internal combustion engine said system including a spark plug in each cylinder and a rotary high voltage ignition distributor connected with said plugs in succession, of an electric meter having first and second terminals and an indicator responsive to the voltage drop across said terminals, a spark gap, and a lead from said first terminal to a high tension terminal of said distributor and including said spark gap, said gap having a dimension substantially the same as the spark gap of the plugs of said engine, the second terminal of said meter being grounded.

2,653,473
APPARATUS FOR DETERMINING PROPERTIES OF RESINS
Allen L. Simison, Ottawa Hills, Toledo, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application July 29, 1950, Serial No. 176,691
3 Claims. (Cl. 73—150)



3. Apparatus for determining binder properties comprising a chamber, a conical screen member supported within said chamber, a removable, conical fibrous glass member adapted for nesting within said screen member, fan means for exhausting air from said chamber, an air inlet port for said chamber, said air inlet port having a heating means connected therewith, said fan means being adapted for pulling heated air through said conical fibrous glass member, and means for introducing binder into said chamber adjacent said air inlet port.

2,653,474
APPARATUS FOR DETERMINING WELL PIPE PERFORATIONS
James J. Santiago, Los Angeles, Calif., assignor to Grant Oil Tool Company, Los Angeles, Calif., a corporation of California
Substituted for abandoned application Serial No. 620,552, July 1, 1946. This application July 9, 1951, Serial No. 235,843
2 Claims. (Cl. 73—151)

1. Apparatus comprising a body including relatively vertically movable tubular sections one within the other means carried at the outside of

said outer section forming a chamber communicating with the interior of the inner section and having an outer wall radially expansible by pressure in the chamber, said wall including a record forming medium to be positioned opposite the perforated area of a well pipe and radially expansible by pressure in said chamber, a packer carried by said outer section above said medium, and means for raising said inner section to com-



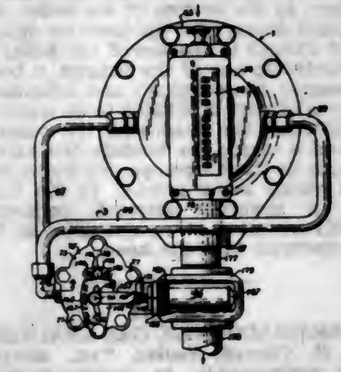
municate fluid pressure from within the inner section to said record-forming medium to expand it against the pipe, and a check valve carried by said inner section to close it against downward fluid flow therethrough during initial upward movement of the section, said valve thereafter being displaceable to open said inner section to downward fluid flow during further upward movement of the section.

2,653,475
MULTIPLE PLATFORM WEIGHT ANALYZER
Karl J. Kraus, Las Vegas, Nev.
Application June 6, 1949, Serial No. 97,395
8 Claims. (Cl. 73—172)



7. An apparatus for indicating the weight distribution of the human body comprising, a base, a plurality of weight sustaining platforms for each foot, respectively on said base, means resiliently mounting each of the platforms, electrical means mounted on the base, said electrical means being of the type where weight thereon will vary the current flowing through the same, said electrical means being operatively connected to each of said platforms to indicate the weight imposed thereon individually, an ammeter electrically connected to each of said electrical means, said ammeter being calibrated in pounds, a vertical standard rising from the base, and weight indicating means mounted on the vertical standard electrically connected to each of said electrical means, the weight indicating means indicating the direction of body weight deviation from the norm, said weight indicating means comprising a calibrated transparent hemisphere, means on which the hemisphere is mounted including two angularly arranged axes to move said hemisphere synchronously with the movement of the platforms when weight is placed thereon, a center marked arm on the vertical standard, said hemisphere moving with relation to the center marked arm to indicate an unbalanced condition.

2,653,476
AUTOMATIC METER COMPENSATING MECHANISM
Ralph B. Pressler, Fort Wayne, Ind., assignor to Bowser, Inc., Fort Wayne, Ind.
Application June 11, 1949, Serial No. 98,472
4 Claims. (Cl. 73—244)

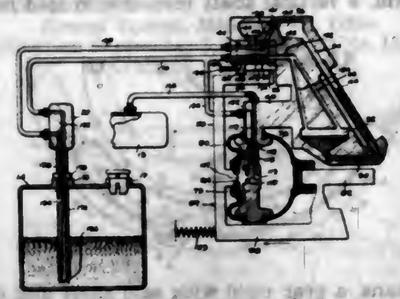


1. In a metering system, the combination of a supply line, a discharge line, a meter in the lines, said meter comprising displacement means and a valve for controlling the operation of the displacement means, a compensator connected to the lines in parallel with the displacement means, control means including said valve for actuating the compensator in time with the meter, said compensator comprising a displacement mechanism, said displacement mechanism being adjustable to vary the displacement thereof, means for controlling the displacement of said mechanism, a temperature responsive means in one line, a lever connected to actuate said controlling means, a member mounted for pivoting about a point on the temperature responsive means, means defining an arcuate slot in said lever and pivot means engaged in and guided in said slot for adjustably connecting said lever to said member.

2,653,477
LIQUID LEVEL GAUGE
Elvin E. Heskins, Flint, Mich.
Application December 29, 1949, Serial No. 135,610
4 Claims. (Cl. 73—302)

1. In an internal combustion engine having an oil-containing crankcase with an opening therein and a manifold capable of creating a vacuum, a manometer, a tube extending through said

opening in said crankcase and into the oil therein, a pair of diaphragm closed chambers, a slide connected to the diaphragms of both chambers for expanding one diaphragm closed chamber during the collapsing of the other, fluid passage means connecting the interior of one diaphragm closed chamber with the interior of said manifold for moving the slide in one direction, other fluid passage means communicating the interior of the other diaphragm closed chamber with said



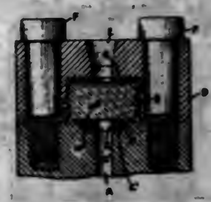
tube and said manometer, a valve arranged at the connection of said slide to the diaphragm of said last-mentioned diaphragm closed chamber to be opened to the atmosphere when said last-mentioned diaphragm closed chamber is expanded and closed during the collapsing thereof, and spring means for moving said slide in the opposite direction to collapse said last-mentioned diaphragm closed chamber and force the air contained therein to said tube and manometer upon the ceasing of a vacuum in the manifold.

2,653,478
GAUGE FOR LIQUID CONTAINERS
Robert W. Harper, Fort Wayne, Ind.
Application August 30, 1949, Serial No. 113,070
6 Claims. (Cl. 73—309)



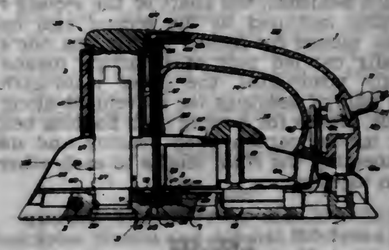
1. A gauge for a liquid container, comprising a fill-cap for the container, a tubular housing disposed atop the fill-cap and having an apertured disc-like member in its lower end, a tubular float chamber adapted to extend into the container and having an apertured disc-like member in its upper end, a tubular member extending through said fill-cap and cooperating with said disc-like members for connecting the housing, fill-cap and float chamber together in axial alignment, said housing having a sight opening and indicia, and an indicating mechanism including a buoyancy type float disposed within said chamber, said float being subject to immersion in the liquid of the container in varying depths in accordance with changes in the depth of said liquid, a stem carried by said float and extending loosely through said tubular member into the housing, the upper end of the stem providing indicating means visible through said sight opening, a spring concentrically disposed relative to the stem and cooperating with said indicating mechanism to limit downward movement of the indicating mechanism, and a compression spring concentrically disposed around the stem between the float and the disc-like member in the upper end portion of the float chamber by which buoyancy of the float is yieldingly restrained, thus to reduce the range of the indicating mechanism.

2,653,479
LIQUID LEVEL GAUGE
Howard D. Yeder, Detroit, Mich., assignor, by mesne assignments, to Buffalo-Eclipse Corporation, a corporation of New York
Application October 18, 1948, Serial No. 55,207
4 Claims. (Cl. 73—330)



1. In a gauge, a body having a channel opening through an outer face thereof and a recess in said body surrounding said channel, a transparent plate covering said channel and recess and overlapping the surrounding portion of said outer face, a self-sealing gasket of extrudable material within said recess, means secured to said body for pressing said plate against said gasket, and a non-extrudable retainer surrounding and carried by said gasket to be pressed thereby against said plate and to also extend into said recess closing any crevice between said plate and said face of the body.

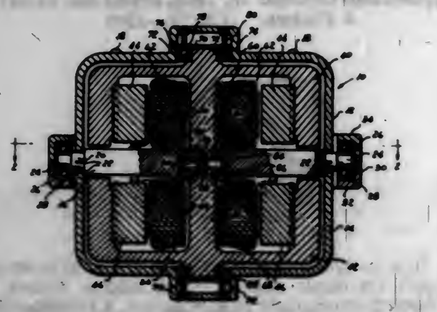
2,653,480
TEMPERATURE INDICATOR FOR HAND PRESSING IRONS
Zina Burreson, Sheboygan, Wis., assignor to Presto Industries, Inc., Eau Claire, Wis., a corporation of Wisconsin
Application September 3, 1948, Serial No. 47,707
10 Claims. (Cl. 73—343)



1. A device adapted to indicate the temperature of the sole plate of a pressing iron which has a handle for manipulating the iron and a boiler, said device comprising, in combination, means adapted to move in response to variations in the temperature of the sole plate, temperature

indicating means adapted to be carried by the iron at a location forward of the position of the user's hand when manipulating the iron by its handle, said temperature indicating means including a movable element, a connecting member between the movable element of the temperature indicating means and said movable means, said connecting member being adapted to extend through the boiler of the iron, and a conduit surrounding the connecting member where it passes through the boiler, said conduit being adapted to keep the connecting member out of contact with the contents of the boiler.

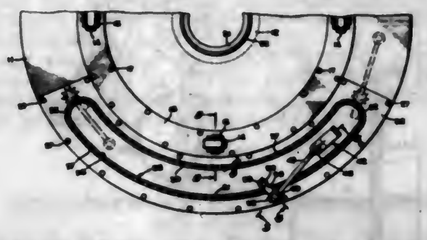
2,653,481
TEMPERATURE-COMPENSATED GYROSCOPE
James C. Mathiesen, Pleasantville, N. Y., assignor to The Norden Laboratories Corporation, White Plains, N. Y., a corporation of Connecticut
Application February 19, 1952, Serial No. 272,289
4 Claims. (Cl. 74—5.37)



1. A gyroscope having a housing, a rotor mounted in the housing for rotation about a spin axis, means for mounting the housing for pivotal movement about a tilt axis extending at right angles to the spin axis, said rotor being formed with two symmetrical parts of equal mass each having its own rotor shaft, a bearing support member carried by the housing symmetrical with a plane passing through the tilt axis at right angles with the spin axis, a first bearing carried by the support on one side of said plane, a second bearing carried by the support on the other side of the plane symmetrical to the first bearing, a third bearing carried by the housing on one side of said plane, a fourth bearing carried by the housing on the other side of said plane symmetrical with the third bearing, said bearings being disposed coaxially with the spin axis, the shaft of the first rotor part being mounted in the first and third bearings, the shaft of the second rotor part being mounted in the second and fourth bearings, means for fixedly positioning one symmetrically carried pair of bearings, means for floatingly positioning the other symmetrically carried pair of bearings for movement along the spin axis, means for biasing each floating bearing toward its companion fixed bearing and means for connecting the rotor shafts to each other for rotation together.

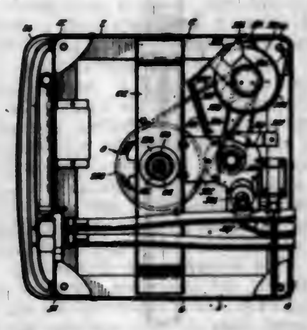
2,653,482
WIND MACHINE OSCILLATOR
Don L. Kinder, Redlands, Calif.
Application January 24, 1951, Serial No. 207,460
4 Claims. (Cl. 74—29)

1. In apparatus of the character described, a stationary platform, a table mounted thereon for rotary motion with respect thereto about a vertical axis, and means for turning said table about said vertical axis, said turning means comprising a pair of arcuate racks disposed one inside the other and in a horizontal plane about a common center lying within said vertical axis, the respective operating faces of said racks being directed oppositely, an arm, means pivotally mounting said arm on said table for movement about a vertical axis, journal means carried by said arm, a vertical shaft revoluble in said jour-



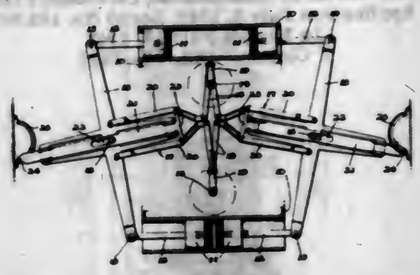
nal means, a gear rigid with said shaft and disposed in planar alignment with said arcuate racks, and guiding means operatively associated with said arm for maintaining said gear selectively enmeshed with one or the other of said racks, and means for turning said shaft comprising a driven gear rigid with said shaft, a driving gear journaled on said table for rotation about an axis coinciding with the axis of said arm's mounting means, a driving chain interconnecting said driving and driven gear and means for rotating said driving gear.

2,653,483
WASHING MACHINE
Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware
Original application December 20, 1948, Serial No. 66,229. Divided and this application October 17, 1950, Serial No. 190,518
5 Claims. (Cl. 74—242.15)



3. In combination, a reversible motor having a drive pulley, means driven by said motor including a driven pulley, a belt drive between said pulleys, means for pivotally supporting said motor whereby the axis of the rotor for said motor is disposed laterally of a line extending between said pivot means and the axis of rotation of said driven pulley to provide a positive driving relation between said drive pulley and belt in one direction of rotation of said rotor and to permit said motor pulley to slip with respect to said belt upon rotation of said rotor in the opposite direction when the load upon said motor exceeds a predetermined value, and means for urging said motor pulley into driving relation with said belt, said means being yieldable when said load exceeds said predetermined value.

2,653,484
COMPENSATING MECHANISM CONNECTING RECIPROCATING MEMBER TO A ROTATING MEMBER
Ernest Zecher, Middletown, Ohio
Application September 5, 1950, Serial No. 183,242
6 Claims. (Cl. 74—40)



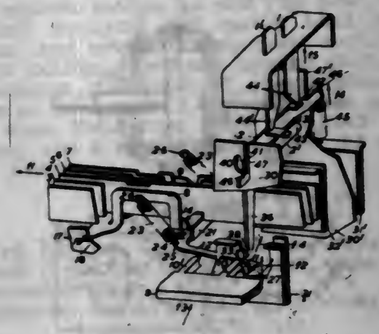
1. In a fluid pressure engine the combination comprising a frame, at least a cylinder rigid with the frame, at least a piston slidable in the cylinder, at least a piston rod pivoted to the piston, at least a shaft journaled in the frame and having a crank, a connecting rod pivoted to the crank, rocker means connecting the piston rod and connecting rod and including at least a lever operatively fulcrumed on the frame, a member guiding the lever, a rocker arm fulcrumed on the frame and guiding the member lengthwise in motion colinear with its length and pivoted to the connecting rod, and cam means on the frame guiding the member.

2,653,485
SILENT CHAIN
Thomas F. MacArthur, Troy, N. Y., assignor to Ramsey Chain Company, Inc., Albany, N. Y., a corporation of New York
Application July 20, 1950, Serial No. 174,885
6 Claims. (Cl. 74—253)



1. In silent chain including, in combination, a plurality of overlapping sets of symmetrical links shaped to engage sprocket teeth and each having apertures which are substantially circular in form except for flattened edges at opposite ends of the links and articulating pintles disposed in the apertures of the overlapping links, each pintle comprising two parts having flat sides to engage the flattened edges of the apertures and opposed convex co-operating surfaces adapted for rolling contact, the improvement consisting of links assembled in the chain and having apertures with projections whose edges are closer to the centers of the apertures than the arcs of the apertures, and are constructed and arranged to engage the pintle parts and to prevent reverse flexing of the chain.

2,653,486
SELECTING AND CONTROLLING MECHANISM FOR MOVABLE PARTS
Oscar Jean Joseph Bracke, deceased, late of Antwerp, Belgium, by Maria Bertha Braeckman, Antwerp, Martha Odille Bracke and Edward Antoon Marie Reems, St. Amandsberg, and Miguir der Gasparian and Diane Roumanie Wilhelmina Bracke, Antwerp, Belgium, administrators, and Georges Xavier Lens, Antwerp, Belgium, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application January 17, 1951, Serial No. 206,498
In Belgium January 17, 1950
10 Claims. (Cl. 74—471)

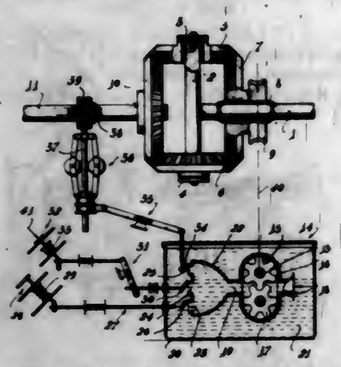


10. A switching mechanism comprising a pair of first movable members, a plurality of adjacent second movable members each having at least one slot along one edge thereof, an actuating member for each of said first members, clutch mechanism associated with each of said first members for selectively establishing an operating link between said actuating member and the associated first member, a common clutch actuating mechanism for said clutch mechanisms operatively associated with said plurality of second movable members and responsive to a predetermined positional agreement between the slots of said last named members comprising a pivotally mounted member extending across said members for co-operation with the slots thereof, a pair of clutch actuating arms extending from said pivotally mounted member positioned on opposite sides of said second members; each of said clutch mechanisms comprising an intermediate lever having one end bearing against one of said pair of first members and a second end in juxtaposed position with respect to one of said first member actuating members and forming a space therebetween, and a freely movable member interposable in said space, said freely movable member being normally removed from said space, said clutch actuating arms being adapted to displace said freely movable member of the associated clutch mechanism into said space upon positional agreement between said slots.

2,653,487
ADJUSTABLE SPEED MECHANISM
José Soler Martín and Alfonso Ildefonso Sanz, Buenos Aires, Argentina
Application October 2, 1950, Serial No. 187,874
In Spain October 3, 1949
4 Claims. (Cl. 74—472)

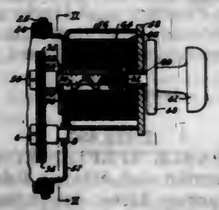
1. An adjustable speed mechanism for motorcars comprising a driving shaft connected to the engine and a driven shaft connected to the wheels

of the motor-car, said driving shaft forming at its end opposite to the connection of the engine a T piece having two free ends on which are freely mounted corresponding gears meshing with a first and a second pinion substantially parallelly spaced from each other and having coaxial axes of rotation, said first and second pinions having the same diameter and number of teeth, said first pinion being mounted on a sleeve freely mounted on said driving shaft, a worm wheel also mounted on said sleeve and integral with said first pinion, said worm wheel meshing with a worm coupled to a gear pump arranged in a tank with fluid, said gear pump having an inlet and an outlet arranged within said tank, said outlet being connected to a valve arrangement consisting of three valves



having respective closure members, one of said closure members being connected to an accelerator member of the motor-car, said accelerator member maintaining said closure member in open position when the accelerator member is in its inoperative position, the closure member corresponding to the second valve being connected to a brake of the motor-car, said brake maintaining said closure member in closed position when the brake is in its inoperative position, said second pinion being coupled to said driven shaft, a speed governor having a shaft of rotation coupled to said driven shaft, the closure member corresponding to the third valve being connected to said governor, said governor maintaining said closure member in open position when the governor is in its inoperative position.

2,653,488
SWITCH
James M. Wallace, East McKeesport, and Paul Silvius, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 30, 1947, Serial No. 745,026
5 Claims. (Cl. 74—527)



1. Locking means for a rotatable shaft journaled in a supporting frame having spaced end plates, said shaft extending through said plates, said means comprising a fixed locking part on said frame, an integral solenoid core and locking sleeve slidably mounted on said shaft for movement into and out of engagement with said locking part, a longitudinal slot in said sleeve, projecting means on the shaft disposed in said slot to prevent rotation of the sleeve on the shaft, said sleeve being biased for sliding movement in one direction, and a solenoid coil disposed between said end plates and surrounding said sleeve for moving the sleeve in the opposite direction against said bias.

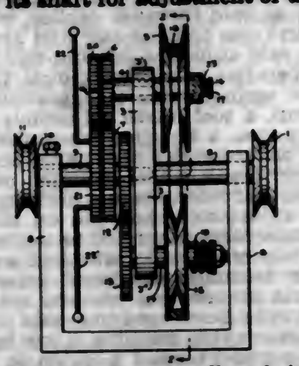
2,653,489
AUTOMATIC TORQUE TRANSFORMER
Jean F. G. M. L. Charpentier, St. Cloud, France
Application July 5, 1949, Serial No. 102,992
In France July 12, 1948
7 Claims. (Cl. 74—751)



1. In a mechanical automatic torque transformer of the kind described in combination, a stationary casing, a driving shaft and a driven shaft arranged coaxially in, and extending outwardly through the walls of said casing, a first drum fixed to said driving shaft, an internal gear ring fixed to said first drum, a gear carrier disc fixed to said driven shaft, planet gears rotatably mounted on said gear carrier disc and meshing with said internal gear ring, a sun gear freely rotatable only in the driving sense, mounted on said driven shaft in mesh with said planet gears, a second drum integral with said sun gear surrounding said first drum, and a third drum mounted on said second drum for angular displacement relative to same, elastic means arranged between said second and third drums for controlling their relative angular displacement and rotation in common, an automatic braking means attached to said stationary casing for braking said third drum in a sense counter to the revolution of said driving shaft, and an automatic clutching means capable of coupling said internal gear ring with said second drum, said clutching being controlled by a relative angular displacement of said second and third drums.

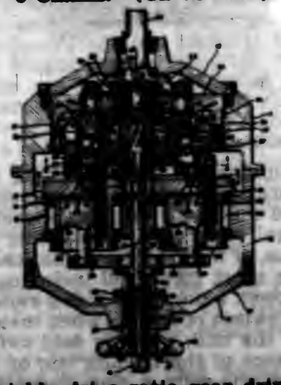
2,653,490
PROGRESSIVE VARIABLE SPEED DRIVE CAPABLE OF REVERSE ROTATION
Edoardo Testori, Milan, Italy
Application May 29, 1951, Serial No. 228,866
In Italy January 24, 1951
2 Claims. (Cl. 74—689)

1. In a variable speed drive including a frame, in combination, a driving shaft and a driven shaft journalled on said frame and transmission means therebetween comprising a two-armed lever secured on said driving shaft and rotatable therewith, a rotatable auxiliary first shaft journalled in one arm of said lever, a rotatable auxiliary second shaft journalled in the other arm of said lever, said auxiliary shafts being revoluble in planetary rotation each about its own axis and about said driving shaft, a gear secured on each auxiliary shaft and rotatable therewith, a stationary pinion fixed on said frame and being in mesh with the gear of said first shaft, whereby rotation will be imparted to said first shaft about its axis when said driving shaft is turned, an adjustable pulley secured to each auxiliary shaft and revoluble therewith, a belt suspended between said pulleys, each pulley having a part movable axially of its shaft for adjustment of the position



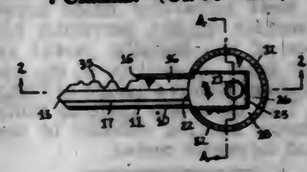
of the belt, said belt and pulleys being operable for transmitting rotation from said first to said second shaft to rotate the gear of said second shaft at variable speed depending on the position of said movable parts of said pulleys, a pinion mounted on said driven shaft and in mesh with said gear of said second shaft to be turned thereby, a mechanism connected to the movable pulley part of said first shaft and actuable to move said part for adjustment of the pulley thereof to change the position of the belt for speed transmission variation, and resilient means connected to the movable part of the opposite pulley urging the pulley to hold the belt in a normal position and to yield for belt support in all belt positions.

2,653,491
VARIABLE DRIVE RATIO GEAR DRIVE TRANSMISSION
Le Roy A. Creber, Noroton Heights, Conn.
Application June 11, 1952, Serial No. 292,792
6 Claims. (Cl. 74—789)



6. A variable drive ratio gear drive transmission, comprising in combination: a housing; a carrier head mounted in said housing and carrying a plurality of transfer gears arranged equidistant about a common axis; an output gear driven by said transfer gears; an output shaft operatively related to said output gear; a cluster of gears, one for each of said transfer gears adapted to drive the latter, spaced at all times equidistant from said common axis; a cluster block supporting each cluster gear adjustably rotatable about the axis of the transfer gear driven by the cluster gear it mounts; means for simultaneously rotatably adjusting said cluster blocks to adjust the distance from each of said cluster gears to said common axis but maintaining said distance equal for all of said cluster gears; a ring gear having inner teeth operative consecutively with said cluster gears to drive the latter; an input shaft; means driven by said input shaft providing a non-rotative planetary eccentric motion for said ring gear; means rotatably mounting said carrier head in said housing; and means for fixing said carrier head against rotation within said housing whereby the transmission is capable of accomplishing two ranges of drive ratio: a very low range of drive ratio when the carrier head is unfixed in the housing, and a higher range when the carrier head is fixed.

2,653,492
BIMETALLIC KEY BLANK
Howard Abrams, Cleveland, Ohio, assignor to Curtis Industries, Inc., Cleveland, Ohio, a corporation of Ohio
Application August 10, 1951, Serial No. 241,273
7 Claims. (Cl. 76—110)

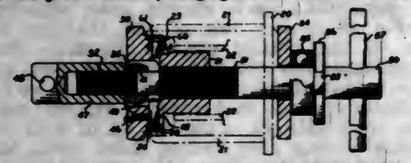


2. A key blank comprising a shank having an aperture adjacent one end thereof, and a knob secured to said end of said shank, said knob consisting of a pair of disks permanently secured in face to face abutment with each other, each of said disks having an embossment forming a shank-receiving cavity, the walls of said cavity abutting opposite sides of said shank to lock said shank against transverse movement relatively to said disks, and each of said disks having an opening therein defined by an annular flange integral therewith, said flanges extending into said aperture to lock said shank against longitudinal movement relatively to said disks.

2,653,493
CAM OPERATED SYNCHRO-RING STAKING TOOL
Sam Melamed, Cleveland Heights, Ohio
Application March 15, 1951, Serial No. 215,867
2 Claims. (Cl. 78—1)

1. Means for staking a bushing seated in the recess provided therefor in a body having a plurality of staking holes in the wall thereof, leading from said recess, comprising in combination, a cylindrical mandrel having a threaded axial bore communicating with a cylindrical chamber of larger diameter, said mandrel also having a circular seat concentric with said chamber, adapted to fit snugly within the bushing seated in the aforesaid body recess, and a plurality of spaced radial bores extending between said chamber and seat; a staking pin slidably mounted in each of said radial bores, engagable with the inner face of said bushing; each of said pins having a pointed end directed toward the seat and a spher-

ical end directed toward the chamber; a jack-screw mounted in said mandrel bore and extending through said chamber; a spherical cam slidably mounted on the jack-screw within the mandrel chamber; and a driver threadedly mounted on said jack-screw, engageable with said spher-



ical cam, to slide same longitudinally of the jack-screw and against the spherical ends of the staking pins to effect outward radial movement of the pin points against the inner face of the bushing, whereby the metal from the outer face thereof is pressed into the body staking holes.

2,653,494

METHOD OF FORGING METALS

Edward C. Creutz, Pittsburgh, Pa., assignor to the United States of America as represented by the United States Atomic Energy Commission

No Drawing. Application December 24, 1946, Serial No. 718,263

6 Claims. (Cl. 78—31)

1. The method of forging beryllium metal comprising the steps of forming a unit by encasing a beryllium billet within an envelope of a metal capable of being forged and interposing a stratum of an inert refractory oxide between the peripheral surface of the beryllium billet and inner surface of the metallic jacket and then subjecting at least a portion of the unit to a forging operation within a range of temperature from about 700° C. to the melting temperature of the minimum melting eutectic of the beryllium and said forgeable metal.

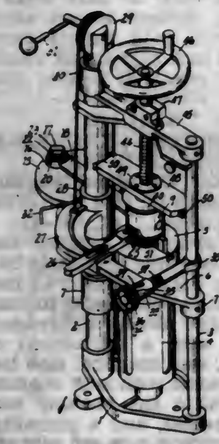
2,653,495

MACHINE FOR KNURLING PISTONS

Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich.

Substituted for abandoned application Serial No. 71,617, January 19, 1949. This application June 7, 1950, Serial No. 166,700

15 Claims. (Cl. 80—5.1)



1. A machine for knurling pistons comprising, a base having a pair of uprights extending thereabove, a headstock positioned vertically between said uprights, a piston receiving chuck rotatably mounted on said headstock, a crank member having diametrically opposed wrist pins connected to said chuck, a cross member connected between the upper ends of said uprights, a vertical screw quill adjustably mounted on said cross member, a cone end member rotatably and removably secured to the lower end of said quill, a traveling bar slidably mounted between said uprights and forming a bearing for the lower end of said screw quill, a pressure arm slidably and swingably mounted on one of said uprights, a second arm slidably mounted on the other of said uprights and having a threaded outer end, said first arm defining an aperture through which said threaded portion of said second arm extends, an adjusting nut on said threaded portion engageable with said first arm to move said first arm toward said chuck, said adjusting nut and said first arm having cooperative measuring indicia thereon, a compression spring acting in opposition to said adjusting nut, a tool holder adjustably clamped to said first arm, a knurling wheel mounted on said holder and rotatable about a vertical axis, a motor driven crank wheel mounted on one of said uprights and rotatable in a horizontal plane, a radially adjustable crank pin on said crank wheel, a pitman arm connected to said crank pin and selectively engageable with said wrist pins, and flexible bushings positioned between said pins and said pitman arm whereby said arm is easily tilted to be disengaged from said wrist pins.

8. In a piston sizing machine, a tool holder arranged to be urged toward a piston to be sized, a pin rotatably mounted on the end of said holder, a pair of bearing portions on said pin, one of said bearing portions being eccentric with respect to the other of said bearing portions, a pair of knurling tools rotatably mounted on said bearing portions, and means for angularly adjusting said pin on said holder.

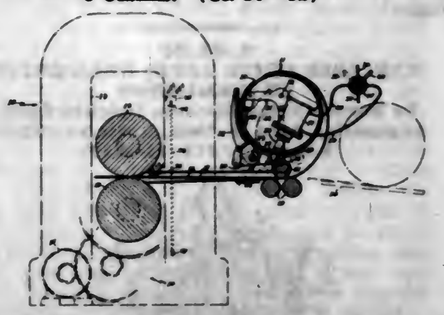
2,653,496

ROLLING MILL AND COILING APPARATUS

Howard F. Anderson, Torrington, Conn., assignor to The American Brass Company, a corporation of Connecticut

Application November 25, 1947, Serial No. 788,057

6 Claims. (Cl. 80—32)



1. The combination with a rolling mill, with coiling apparatus for coiling sheet metal passing through said mill as it emerges therefrom, and with electrical means for deactuating said coiling apparatus, of means for automatically pulling a tail on the sheet metal coil including a source of electric power, a normally closed switch, means holding said switch open only when metal is passing through the mill, whereby said switch closes upon emergence of the trailing end of the metal from between the rolls, a time delay relay connected through said switch to said power source, whereby said relay is set in operation to begin its timing cycle upon closure of said switch, said time delay relay having contacts which close upon expiration of its timing cycle, said contacts being connected in circuit with said power source and with the deactuating means for said coiling apparatus, whereby upon closure of said relay contacts the coiling action of said coiling apparatus is discontinued and a tail of length determined by the speed of travel of the sheet metal through the rolls and the length of the timing cycle of said time delay relay is produced automatically on the coil of metal formed by the coiling apparatus.

2,653,497

ROLLING MILL TURN-UP GUIDE

Walter A. Ebert, Dormont, and Regis A. Connelly, Bethel Township, Allegheny County, Pa., assignors to Jones & Laughlin Steel Corporation, Pittsburgh, Pa., a corporation of Pennsylvania

Application June 8, 1950, Serial No. 166,909

2 Claims. (Cl. 80—53)



1. A rolling mill turn-up guide for a bar having unequal major and minor cross-sectional diameters comprising a housing provided with a longitudinal bore of circular cross-section at its entry end, the periphery of each successive bore cross-section being formed by an arc of a circle and two equal lines intersecting on a diameter of the circle, the lengths of these lines increasing gradually from entry to exit end of the guide, the vertex angle included between the lines increasing from an acute angle at the entry end to an angle greater than 180° at the exit end.

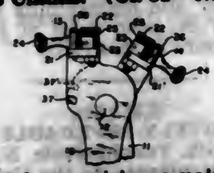
2,653,498

TOOL FOR APPLYING WIRE HOSE CLAMPS AND MAKING OTHER WIRE CONNECTIONS

John G. Truesdell, Colorado Springs, Colo., assignor of one-half to Robert H. La Grange, Colorado Springs, Colo.

Application January 28, 1950, Serial No. 141,035

5 Claims. (Cl. 81—9.3)



3. A wire tool comprising a pair of handles; a pivot for said handles and connecting said handles adjacent one end thereof; a wire guide extending longitudinally from the end of each said handle and having a clamping surface disposed generally transversely to the axis of said handle pivot; a clamp on each said handle for clamping a portion of said wire against said guide clamping surface; and a pivot for each said clamp, the axis of each said clamp pivot extending transversely to the direction of the axis of said handle pivot.

2,653,499

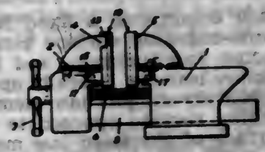
REMOVABLE FACEPLATE FOR VISE JAWS

Arnold B. Partin, Bradford, Pa., assignor to Yost Manufacturing Company, Meadville, Pa., a corporation of Pennsylvania

Application October 5, 1948, Serial No. 53,867

1 Claim. (Cl. 81—38)

In combination with a flat faced vise jaw and a vertically extending support therefor, a vise jaw adapter comprising a rectangular shaped, flat plate member having upper, lower and opposite end marginal flanges extending rearwardly at substantially right angles thereto to form a dished portion, the upper marginal flange of said rectangular shaped plate member engaging the top of the vise jaw to position and support said plate member adjacent said jaw, the face of the vise jaw nesting in the dished portion, parallel lugs extending rearwardly from the dished portion, said lugs being spaced from the opposite end



flanges and being positioned adjacent the lower flange and means for securing said spaced lugs to the portion of said vertically extending support for said jaw immediately below the face thereof, the support for said vise jaw having a transversely extending aperture therein and said lugs on said plate member having apertures therein for registration with the transverse aperture in said support and a pin extending through said apertures in said support and said lugs, respectively, to secure the lower portion of said plate member adjacent the face of said vise jaw.

2,653,500

WRENCH

George W. Dyer, Bakersfield, Calif.

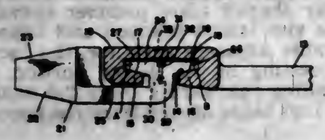
Application November 22, 1950, Serial No. 197,113

3 Claims. (Cl. 81—62)



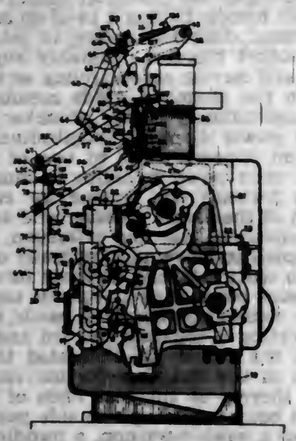
1. A wrench of the character stated comprising an elongate handle having a head on one end and a longitudinal chamber leading to said head, an annular socket member rotatably supported in the head and having an encircling series of teeth exposed in the chamber, guide members in and spaced longitudinally of the chamber, a pair of elongated pawls disposed longitudinally in the chamber on opposite sides of two of said guide members, each pawl including a longitudinally extending forward end tongue for engagement with teeth of the socket member and an inwardly offset longitudinal rear end extension, said pawls being adapted to move longitudinally of the handle and to shift laterally at their forward ends, spring means connecting the pawls together and to a guide member between the pawls, said spring means exerting a constant inward and rearward pull upon the pawls, an elongated thrust body positioned in the chamber for movement longitudinally therein at the rear ends of the pawls, the thrust body including two side portions each adjacent to a pawl extension, a handle lever pivotally supported on the elongated handle, an operative coupling between the handle lever and the thrust body for imparting longitudinal reciprocatory movement to the thrust body, and shiftable means within the chamber for selectively coupling the pawl extensions with the said side portions of the thrust member.

2,653,501
SHANK-GRIP SLIDABLE SIDE JAW WRENCH
Melmoth W. Hunter, Lorain, Ohio
Application December 4, 1951, Serial No. 259,827
5 Claims. (Cl. 81—151)



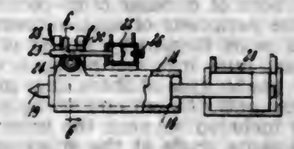
1. A wrench comprising a fixed jaw member having a work-engaging surface generally in a plane extending longitudinally and laterally of said jaw member between laterally opposite sides thereof, a relatively slidable jaw member having a work-engaging surface opposed to said work-engaging surface of the fixed jaw member, said fixed jaw member having a guide groove extending transversely in one said side thereof at a substantial angle to said plane and defined by oppositely undercut side portions of wedge-shaped cross-section, said slidable jaw member having a tongue provided with complementally wedge-shaped portions slidably engaging in said undercut side portions of said groove, said wedge-shaped side portions of the tongue being proportioned so as not to extend to the full depths of said undercut side portions of the groove at diagonally opposite corner portions of said tongue, whereby relative turning movement of said jaw members is effective to apply wedging action at said diagonally opposite corner portions to prevent sliding movement of the slidable jaw relatively of said fixed jaw, one of said members having a handle thereon for turning the same.

2,653,502
WORK HANDLING APPARATUS FOR CRANKSHAFT LATHES
Walter R. Meyer and Harold J. Siekmann, Cincinnati, Ohio, assignors to The R. K. Le Blond Machine Tool Co., Cincinnati, Ohio, a corporation of Delaware
Application May 24, 1951, Serial No. 228,051
5 Claims. (Cl. 82—2.5)



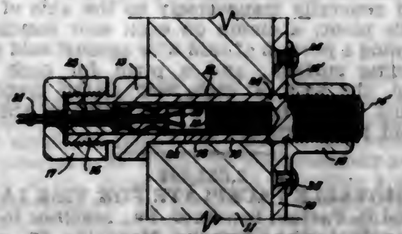
1. A work handling device for a machine tool including, a frame, a horizontally disposed crane rail on said machine frame arranged parallel to the axis of rotation of the work spindle of the machine tool, a truck member, roller means on said truck member adapted to move laterally along said rail, a pair of parallel motion producing arms pivotally mounted at one of their ends on rock shafts located on said truck member, a vertically disposed work supporting carriage, means for pivotally mounting said carriage at the outer ends of said arms so that said arms may be swung upwardly and downwardly while maintaining said carriage in parallel vertical positions, a fluid pressure elevating cylinder interconnected between said truck and one of said arms to actuate said arms to effect said swinging movement of said work carriage member, a work engaging hook carrying slide vertically reciprocatable on said carriage, a hook actuating cylinder interconnected between said carriage and said slide for moving said slide to and from a predetermined upward vertical position on said carriage, and work engaging hooks on said slide adapted to engage a workpiece to hold said workpiece in a predetermined indexed position on said carriage.

2,653,503
AUTOMATIC MACHINE TOOL
Gerard A. Cormier, Springfield, Vt., assignor to Jones & Lamson Machine Company, Springfield, Vt., a corporation of Vermont
Application August 15, 1949, Serial No. 110,427
1 Claim. (Cl. 82—31)



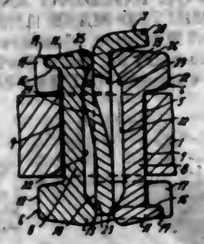
In a machine tool of the class described comprising a bed, a headstock on said bed, a spindle journaled in said headstock, a tailstock including a work supporting center on said bed in alignment with said spindle, a differential hydraulic piston and cylinder on said tailstock, means for applying fluid pressure to the side of greater area in said cylinder to advance said center with force toward said spindle, and means for applying an equal pressure to the other side of said cylinder and maintaining said pressures simultaneously on both sides of said piston to reduce the amount of said force.

2,653,504
EXPLOSIVELY SEVERABLE BOLT
Thomas C. Smith, Poughkeepsie, N. Y., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application March 20, 1950, Serial No. 150,665
1 Claim. (Cl. 85—1)



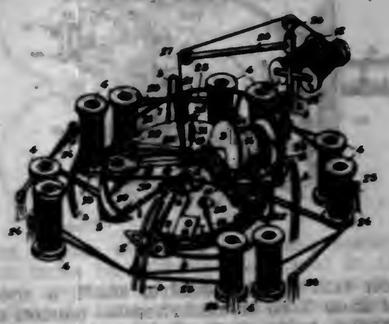
In a mechanical fastening device for joining at least two material parts in a precise relation and in which the device is severable through tensile forces developed by the deflagration of combustible material, the combination comprising a partially hollow elongate body open at one end and having a threaded solid shank at the other end thereof, external threading on said body adjacent the open end thereof, a head integral with said body and spaced from the open end thereof by said external threading, a wall defining the hollow portion of said body between said head and said solid shank, said wall having a uniform cross-sectional area and uniform tensile strength characteristics, an external peripheral notch in said wall in a plane substantially normal to the longitudinal axis of the body, the notched portion of the wall having a reduced cross-sectional area and therefore having substantially lower tensile strength characteristics than the uniform cross-sectional area of said wall, a closure cap threaded over the open end of said body on said external threading, means defining an axial passageway through said closure cap, a deformable tubular seal-forming member located within the open end of the body, a quantity of highly combustible material having a definite and known speed of burning within the hollow portion of said body defined by said wall, an electrically operated bridge wire within said hollow body in close proximity to said combustible material for initiating the deflagration of said combustible material, electrical conductors connected to said bridge wire and extending from within said hollow body through said tubular seal-forming member and the passageway in said closure cap, there being space between said electrical conductors and said means defining said axial passageway, said conductors being adapted to be connected to a supervisory control including a source of electrical energy, and said deformable tubular seal-forming member being responsive to the heat and pressure caused by the deflagration of said combustible material to flow into and close said space in said axial passageway.

2,653,505
DRAFT KEY RETAINER
Frank H. Pietzsch, Clayton, Mo., assignor to Western Railway Equipment Company, St. Louis, Mo., a corporation of Missouri
Application March 7, 1951, Serial No. 214,497
3 Claims. (Cl. 85—8.3)



1. A retainer for a railway car draft key having an opening therethrough to receive the retainer: said retainer comprising a pair of side members each having an elongated body portion, a rigid tongue adjacent one end of said body portion to project laterally thereof for interlocking said side members and an enlarged head adjacent the opposite end of said body portion, each of said enlarged heads having an aperture therethrough located at one side of and clear of said body portion, and further each enlarged head having a slot through the head extending into the aperture in said enlarged head; and a key member for said side members, said side members fitting together in the draft key opening with said laterally projecting rigid tongues on each side member engaging the other side member through said enlarged head aperture in the latter side member for interlocking the side members and said key member slidably fitting between said side members to spread said side members in the draft key opening and maintain said rigid tongues in engagement with said enlarged heads.

2,653,506
BRAIDING MACHINE
Robert Martin Fraser, Buenos Aires, Argentina
Application October 3, 1950, Serial No. 188,245
10 Claims. (Cl. 87—33)

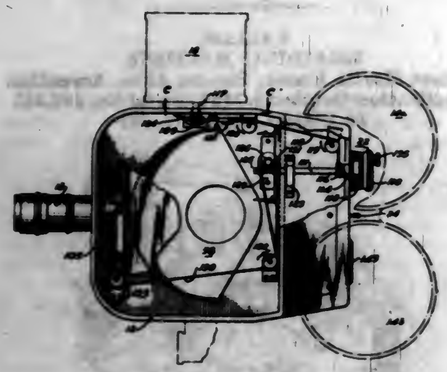


2. A machine for braiding yarn comprising a base, a turntable having a sector shaped recess and being rotatably mounted on said base, a yarn selector pivotally connected to said turntable and positioned at one side of the entrance to said recess substantially perpendicular to said turntable, means for imparting an oscillating movement to said selector in synchronization with the rotation of said turntable, a bobbin rotatably mounted on said turntable, means for rotating said bobbin with the rotation of said turntable, a ring for collecting the yarns and forming the braid mounted on the center of said turntable, a pair of yarn deflectors mounted upon and extending on a slant from said selector and said recess entrance around the edge of said turntable with one deflector above and one deflector below said turntable, means for leading the formed braid from said ring to said bobbin, a plurality of bobbins for supporting the yarn, means supporting said bobbins on said base and spaced around said turntable, and a plurality of members for leading and tensioning the yarns being fed from said plurality of bobbins to said ring.

2,653,507
HIGH-SPEED GRID CAMERA
Ira M. Riles, Manhattan Beach, and David W. Stratton, Inglewood, Calif., assignors to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application September 16, 1949, Serial No. 115,972
2 Claims. (Cl. 88—18)

1. In a movie camera, the combination of film driving and shutter mechanism including a motor for running said mechanisms, a rheostat for controlling the speed of said motor, a film gate, a cyclic film feeding movement driven by said motor for intermittently feeding film past said gate, a shutter comprising two apertured rotary discs for controlling the opening time of said film gate, said motor driving one of said discs through a coupling gear, said motor driving the other of said discs through a planetary gear system, an adjusting gear in said planetary system for varying the relative positions of said discs, a shutter control shaft, a hollow rheostat control

shaft concentric with said shutter control shaft, a first pulley and cable arrangement for connecting said rheostat to said hollow rheostat control shaft, a second pulley and cable arrangement for connecting said shutter adjusting gear to said shutter control shaft, a shutter control knob



fixed on said shutter control shaft, a rheostat control knob fixed on said rheostat control shaft, said knobs being immediately adjacent each other at the ends of said shafts, and means for manually locking and unlocking said shutter control knob and said rheostat control knob without disturbing operation of said camera.

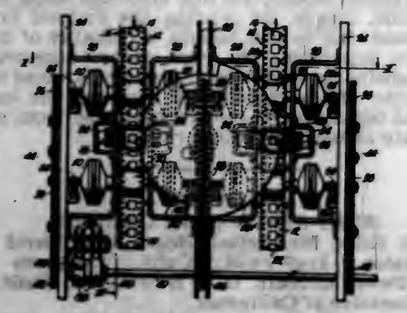
2,653,508

INTERMITTENT FEED MECHANISM UTILIZING CONTROL MARKINGS ON FILM

Fred Howard Whiteley, Kansas City, Kans.

Application February 7, 1949, Serial No. 74,958

7 Claims. (Cl. 88—18.2)



6. In a motion picture projector, film advancing mechanism including a film-engaging, rotatable device; a rotatable drive element; a pair of clutches each having a pair of sections, one section of each clutch being connected with said device; means for the other section of each clutch respectively connecting the same with said drive element for rotating said other sections in opposite directions, each clutch having structure frictionally interconnecting the sections thereof; and means for periodically releasing said structure for one of the clutches, whereby the film is advanced by the drive element through the other clutch.

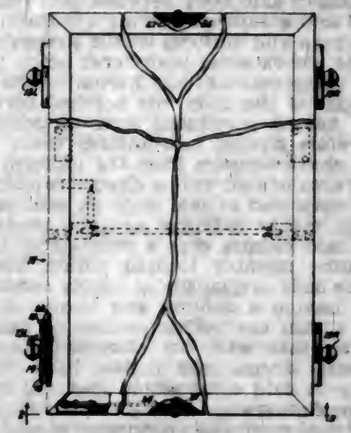
2,653,509

COPYHOLDER WITH TWO-WAY COVER

Edward Nineberg, Chicago, Ill., assignor to Benjamin Sugarman, Chicago, Ill.

Application June 9, 1950, Serial No. 167,160

5 Claims. (Cl. 88—24)



1. A copy-holder including a base, a transparent cover, a pressure pad carried by the base for pressing copy against the inside of the cover, combined hinges and latches positioned on opposite sides of the copy-holder and each including a member rigidly secured to the cover, a member rigidly secured to the base, and a handle-operated pin serving normally as a hinge pin between the two members and shiftable therein, in ordinary operation while restrained from removal, to release the member secured to the cover from the member secured to the base, whereby either side of the cover may be released to swing the cover to an open position for access to the pad with hinge action on the opposite side, and counterbalancing means acting between the base and the cover for assisting in raising the cover from either side.

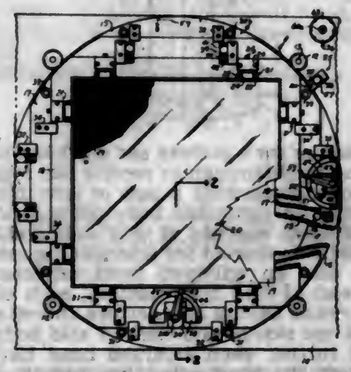
2,653,510

APPARATUS FOR HOLDING AND POSITIONING A COMBINED MASK AND SCREEN

William Carl Huebner, Mamaroneck, N. Y.

Application February 24, 1951, Serial No. 212,623

16 Claims. (Cl. 88—24)



1. An apparatus of the type described for positioning a combination mask and screen relative to a light sensitized surface comprising a frame member having a central opening, a plate-like

member rotatably supported on said frame member and having a central opening superposed with respect to the opening in the frame member, a pair of superposed members having central openings therethrough communicating with each other and with the openings in the said plate-like member and frame member, means movably supporting one of the said pair of members on the other of said pair and the said other of said pair of members on said plate-like member for individual rectilinear movement of said pair of members at right angles relative to each other and parallel to said plate-like member, separate means for effecting rectilinear movement of each of said pair of members a predetermined distance upon each actuation thereof, and means on the said one of said pair of members for supporting a combined mask and screen thereon over the opening therein, whereby the said mask and screen may be sequentially rectilinearly moved relative to the frame member so as to occupy any of four predetermined positions disposed in rectangular arrangement, and the said mask and screen may also be rotated to a desired angular position relative to the frame.

10. An apparatus of the type described for positioning a combination mask and screen relative to a light sensitized surface comprising a frame member having a central opening, a plate-like member rotatably supported on said frame member and having a central opening superposed with respect to the opening in the frame member, a pair of superposed members having central openings therethrough communicating with each other and with the openings in the said plate-like member and frame member, means supporting one of the said pair of members on the other of said pair and the said other of said pair of members on said plate-like member, means for effecting individual rectilinear movement of said pair of members each between two predetermined positions with the movements being at right angles relative to each other and parallel to said plate-like member, means on the said one of said pair of members for supporting a combined mask and screen thereon over the opening therein, means for removably supporting a body having a light sensitized surface parallel with said frame member, and means for varying the distance between said frame member and the means supporting the said body while maintaining the parallel relationship therebetween, whereby the said combined mask and screen may be sequentially rectilinearly moved relative to the body with the light sensitized surface so as to occupy any of four predetermined positions disposed in rectangular arrangement and the said mask and screen may also be rotated to a desired angular position relative to said body while supported at a desired distance therefrom.

2,653,511

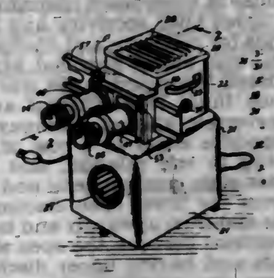
STEREOSCOPIC PROJECTION APPARATUS

Guillermo Cerra, New York, N. Y.

Application May 9, 1950, Serial No. 160,927

1 Claim. (Cl. 88—36)

In a stereoscopic projection apparatus, a pair of horizontally spaced optical lens holding projection units, a housing, a projection lamp mounted in said housing, a plurality of lenses in said housing arranged in alignment with one another and with said lamp, said housing having side openings opposing one another on the respective opposite sides of the housing between said units and said lenses, a stereoscopic slide carrier extending into said openings, laterally spaced vertically extending posts having guideways in said housing, said housing having a top opening adjacent said posts, a supporting member for said lens holding projection units releasably retained between the guideways of the vertically extending posts, a cover releasably secured to said housing over the top opening and the lens holding projection units, said supporting member having two openings, one of the openings being elongated in a vertical direction and the other opening being elongated in a horizontal di-



rection, means mounting said lens holder projection units for slidable movement in the respective openings of said supporting member, a threaded adjusting element extending through a threaded aperture in the supporting member and engaging a projection unit in said vertically elongated opening to adjust said lens projection unit in a vertical direction, and a second threaded adjusting element extending through a threaded aperture in the supporting member and engaging a lens projection unit in said horizontally elongated opening to adjust said unit in a longitudinal direction.

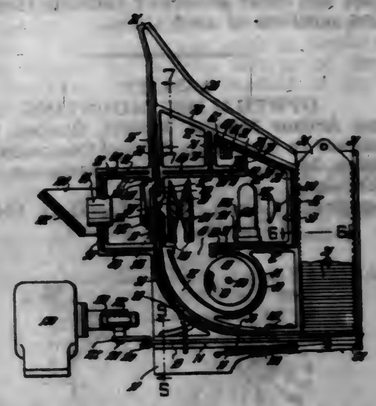
2,653,512

SLIDE PROJECTOR APPARATUS

Gordon L. Brock, Springfield, Mass.

Application August 6, 1952, Serial No. 302,939

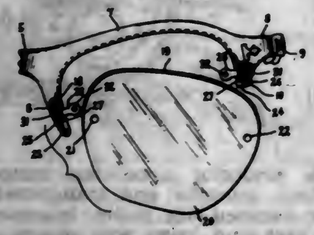
3 Claims. (Cl. 88—28)



1. Slide projector apparatus comprising in combination, opposite and transversely spaced vertically disposed side plates, intermediate upper and rear and lower wall means extending between and secured to said side plates arranged to form a central compartment open at a forward side thereof, forward upper and lower and front wall means extending between and secured to said side plates disposed to form a forward lens compartment having an open rear side in alignment with and forwardly of the open forward side of the central compartment, said open

sides of the compartments providing a projecting position therebetween for successive slides, a reflector and a light source and condenser lenses disposed in said central compartment arranged in horizontal alignment and a projection lens carried by the front wall means of the lens compartment in alignment therewith, said side plates rearwardly of said central compartment arranged to form a vertical chute for a magazine, a magazine formed from opposite and adjacent walls slidably receivable in said chute adapted to hold a stack of slides in superposed horizontal relation and having upper open receiving and lower open discharge ends for receiving and discharging successive slides, said plates provided with pairs of relatively spaced inner and outer ribs extending inwardly from inner faces thereof arranged to provide transversely aligned guideways therebetween for opposite edges of a row of slides extending in end to end relation, said guideways having a lower slide receiving end and extending forwardly from the lower open discharge end of the magazine and then upwardly and terminating in vertical portions between the open sides of the compartments and having upper discharge ends disposed above the adjacent open sides of the compartments, a slide ejector reciprocable horizontally at its opposite sides in adjacent inner faces of said plates in a plane below the lower discharge end of the magazine arranged in forward movements thereof to transfer a lowermost slide of the magazine into the receiving end of said guideways, said guideways arranged whereby slides therein and forwardly of each slide transferred into the guideways are moved forwardly and upwardly thereby so that an uppermost slide is discharged from the upper discharge end of guideways and a slide therebelow is located in projecting position between the open adjacent sides of said compartments, movable stop means to releasably engage and stop successive slides in projecting position thereof, transfer means to receive successive slides from the upper discharge end of the guideways for gravity transfer of them to the upper open end of the magazine, and means for urging successive slides forwardly against the outer guideway forming ribs in projecting position of said slides.

2,653,513
OPHTHALMIC MOUNTING
Joseph Arthur Martin, Nicolet, Quebec, Canada, assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application April 7, 1950, Serial No. 154,613
2 Claims. (Cl. 88—47)



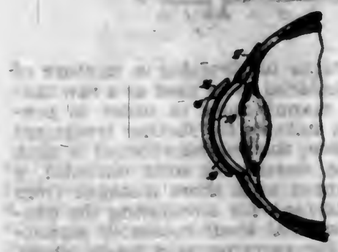
1. In a supporting structure for the lenses of an ophthalmic mounting, the combination of a bridge having a pair of long and slender bar-like members disposed on opposed sides thereof and joined to said bridge, said long and slender bar-like members being formed of non-metallic plastic material and including a nasal depending portion extending below the location at which the bridge is joined with said members to follow the nasal contour of the lenses to be assembled therewith and having a further portion extending outwardly from said location to follow the upper contour of said lenses and terminating in temple connection bearing end portions, said nasal depending portions and temple connection bearing portions of the bar-like members each having a relatively wide and shallow recess in the lens-edge directed side thereof, the intermediate portion of said bar-like members having a lens edge receiving surface extending longitudinally thereof on said lens edge directed side and communicating with said recesses, said portions having the recesses therein further having an opening extending from said recesses to the outer opposed side of the bar-like members and lying substantially in and parallel with the general plane defined by a line drawn centrally and longitudinally of said lens edge receiving surface, and metal L-shaped lens connection members each having a base portion fitted in a respective one of said recesses with its outer exposed surface nearly flush with the said surface and further having a lens strap portion extending from one side of said base portion at approximately right angles thereto to overlie the surface of a respective lens and means for connecting said lens to the strap portions, said base portion of the lens connection members further having an opening therein aligned with said opening in the respective recessed portion of the bar-like members, and metal pin-like securing members including a headed end portion overlying the outer surface of said recessed portions opposite their lens edge directed side and having a shank extended through said aligned openings and their opposed end affixed to the base portion whereby said pin-like members will lie in and be substantially parallel with the general plane in which the lenses are to be supported to cause the connection of the lenses to the supporting structure not only to be located at the most stable point but also to provide long bearing resistance to any attempted lateral displacement of the lenses so that a positive non-loosening connection of the lens connection members with said supporting structure may be had.

2,653,514
OPHTHALMIC MOUNTING
Edward M. Splaine, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application December 22, 1950, Serial No. 202,239
9 Claims. (Cl. 88—47)



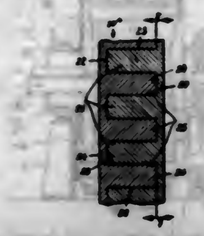
1. A lens supporting structure for the lenses of an ophthalmic mounting, said structure comprising a central bridge member having bar-like members extending outwardly of the opposed sides thereof and shaped substantially to follow the upper contour shape of the lenses to be used therewith, said bar-like members terminating in temple connection end portions having attachment means adjacent said portions, said structure having nasal lens connection means secured thereto adjacent the opposed sides of the bridge and having temporal lens connection means embodying a pair of members each having a portion adapted to straddle the attachment means of the bar-like members adjacent the temple connection end portions, one having a further portion for supporting lens holding means and the other carrying resilient means for yieldably urging against the adjacent lens edge to hold the lens in desired positional relation with the bar-like member and means for moving said members into binding relation with opposed sides of said attachment means.

2,653,515
CORNEAL CONTACT LENS
Noel O. Stimson, Los Angeles, Calif.
Application May 8, 1951, Serial No. 225,135
4 Claims. (Cl. 88—54.5)



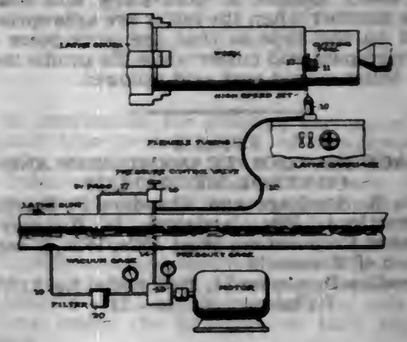
1. A corneal contact lens of approximately the same area as the cornea of a human eye and having a posterior concavity defining a surface of predetermined regular curvature extending to the peripheral edges thereof, an even number of circumferentially spaced portions protruding inwardly of said concavity, said protruding portions being symmetrically disposed about the optical axis of said lens and adjacent the periphery thereof in position to simultaneously engage peripheral areas of the corneal surface of an eye to be fitted whereby said lens tends to assume proper orientation on said cornea when rotationally displaced about its optical axis.

2,653,516
LIGHT-BEAM-RECTIFYING LENS
Glen A. Johnson, Connersville, Ind.
Application October 17, 1949, Serial No. 121,845
6 Claims. (Cl. 88—57)



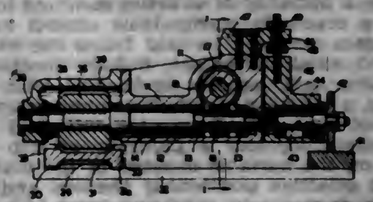
1. A light-rectifying lens comprising a tralucent plate having a multitude of transversely separated, parallel posts of small cross section and of a common axial length projecting from one surface thereof and arranged in a checkerboard grouping, each post being longitudinally tralucent but transversely opaque, and a second tralucent plate having a multitude of similarly transversely separated, parallel posts of similar cross section and of a common axial length projecting from one surface thereof and arranged in a complementary checkerboard grouping, each post of said second plate being longitudinally tralucent but transversely opaque, said posts of said first plate being longitudinally interdigitated with said posts of said second plate and with the first and second plates integrated by the joining of said posts and forming substantially parallel end walls of said posts and the outer surfaces of said lens.

2,653,517
METHOD OF APPLYING CUTTING LIQUIDS
Reginald J. S. Pigott, Pittsburgh, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application May 29, 1951, Serial No. 228,843
1 Claim. (Cl. 90—11)



The method of cooling and lubricating the cutting edge of a metal working tool, which comprises projecting an unbroken, non-spreading, needle-like jet of cutting fluid through the rearward angular space between the tool and the work leaving the point of cutting contact, directing said jet at the line of cutting contact of the tool and the work, said jet moving at a linear speed of more than forty times the relative speed of the work and the tool and in any event not less than 185 feet per second, and having a fine uniform thickness throughout its length of a size not larger than required to engage the zone of cutting contact only, without prior engagement of the side of the tool or the work as would substantially reduce the kinetic energy of the jet prior to reaching the line of contact of the tool with the work.

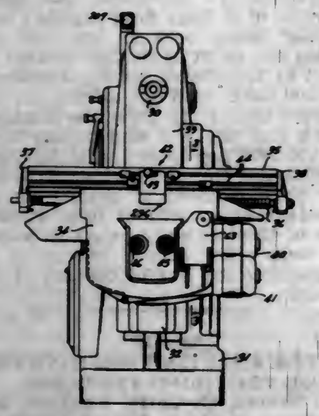
2,653,518
MEANS FOR ADAPTING MACHINE TOOLS FOR PROFILING PURPOSES
Edward S. Saxton, Coventry, England, assignor to Armstrong Siddeley Motors Limited, Coventry, Warwickshire, England
Application March 22, 1951, Serial No. 216,862
In Great Britain May 23, 1950
2 Claims. (Cl. 90—13.1)



1. Means for converting into a copying machine a machine-tool such as has a rotating shaft and a slide movable relatively to the shaft for a surface of a workpiece on the slide to be machined, including a sleeve adapted to be carried by the rotating shaft in driving engagement

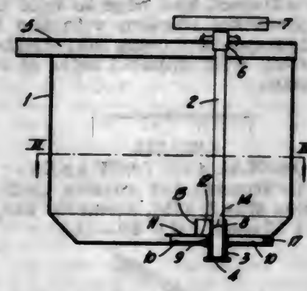
therewith, a frame journaled on said sleeve, a spindle rotatably carried by said frame parallel to and remotely from said sleeve, means providing a driving connection between said sleeve and said spindle, a cutter drivingly carried by said spindle, a follower spaced beyond one end of said spindle, a support for said follower carried by said frame, guide means interconnecting said support and said frame for relative movement in a direction at right angles to the longitudinal axis of said spindle whereby to enable said follower and said cutter to be moved relatively laterally into and out of coaxiality, means setting said cutter and said follower in a selected position of the lateral adjustment, and means biassing said frame to press said cutter and follower respectively against a work-piece and master profile member when the latter are appropriately placed on the slide so that the work-piece will be carried past said cutter while the profile member is being moved past said follower.

2,653,519
MACHINE TOOL TRANSMISSION AND CONTROL MECHANISM
Joseph B. Armitage and Theodore F. Eserkaln, Wauwatosa, Wis., assignors to Kearney & Trecker Corporation, West Allis, Wis., a corporation of Wisconsin
Application December 21, 1946, Serial No. 717,712
7 Claims. (Cl. 90—21)



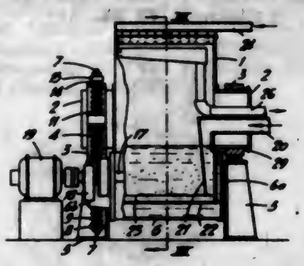
1. an electric switch control element for a machine tool having a movable member comprising a frame, a plurality of switches mounted in said frame, a manually manipulable control handle mechanism mounted in said frame for swivelable and axial movement, linkage mechanism connecting said handle mechanism with said switches, a plurality of actuating arms extending from said frame and connected with said linkage mechanism, and a plurality of trip dogs carried on the movable member of the machine tool for selective positioning thereon and disposed to engage said actuating arms in a predetermined sequence during movement of the tool member, whereby said switches may be automatically actuated in a predetermined sequence by said trip dogs or selectively actuated by the manual manipulation of said control handle.

2,653,520
PULP TREATING APPARATUS
Karl Arvid Karlsson, Stockholm, Sweden
Application April 22, 1948, Serial No. 22,652
In Sweden December 8, 1947
5 Claims. (Cl. 92—26)



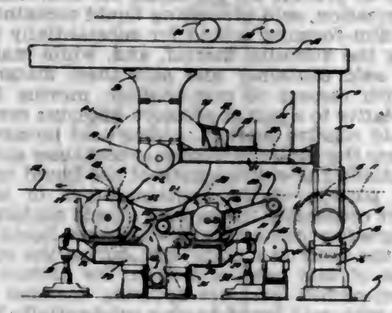
1. In an apparatus for treating a mixture of water and solid material to be used as a raw material for paper manufacture in order to prepare a suspension suitable for further treatment in a pulping engine, the combination of a tank for receiving said water and solid material, a blade wheel mounted at a short distance from the bottom of said tank for circulating the contents thereof, a vertical shaft rotatably mounted in said tank for carrying said blade wheel, means for imparting a rotary motion to said shaft, a disc-shaped wall supported by said blade wheel so as to form a top wall therefor, said wall having a central opening leading to the inner ends of the blades, and an outlet leading from the tank in a tangential direction, the blade wheel being adapted to act as a pump for expelling the contents of the tank through said outlet.

2,653,521
APPARATUS FOR WET-TREATING FIBROUS MATTERS
Sten Eskil Einarsson Ahlfors, Hedemora, Sweden
Application November 4, 1946, Serial No. 707,710
In Sweden November 10, 1945
7 Claims. (Cl. 92—36)



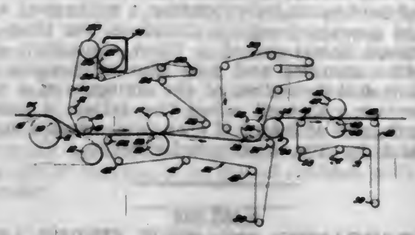
1. A vibratory apparatus for wet-treating fibrous substances, particularly for straining, classifying, dewatering and washing liquid suspensions of fibers, such as paper pulp, comprising a vessel, an apertured drum mounted for rotation within said vessel, resilient means for supporting said vessel, resilient means for supporting said drum relative to said vessel, and individual vibratory means for imparting vibrations to said drum and said vessel to cause said drum and vessel to vibrate mutually differently with respect to each other.

2,653,522
PAPER MACHINE
Lloyd Hornbostel, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application September 10, 1947, Serial No. 773,143
11 Claims. (Cl. 92—49)



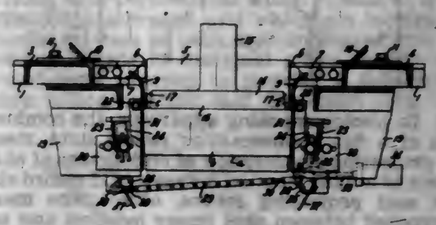
10. In a paper machine, a press section for receiving and pressing a wet web, comprising a first press for pressing the top side of the web against a bare roll surface, a reverse press separate and apart from said press for pressing the bottom side of the web against a bare roll surface, a first transfer felt for supporting and conveying the web from said first press to said reverse press without an open draw, and a second transfer felt for receiving the web from said first transfer felt and carrying the web through a nip of said reverse press, said first press and said first transfer felt being so arranged that the web is maintained in a substantially horizontal plane during its travel through said first press and on said first transfer felt.

2,653,523
REVERSE SUCTION PRESS ASSEMBLY
Lloyd Hornbostel, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application September 27, 1950, Serial No. 186,999
2 Claims. (Cl. 92—49)



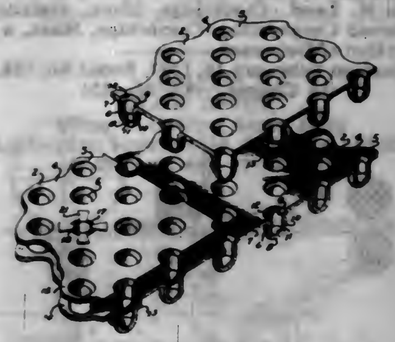
2. A paper machine press section which comprises a plurality of suction presses having horizontal suction pressure nips, a reverse press between said suction presses having a vertical suction pressure nip, bottom felts for conveying a web through the horizontal nips of said presses, a reverse press felt for conveying the web through the vertical nip of the reverse press, a transfer felt for conveying the web to the first horizontal nip, a suction transfer roll acting through said transfer felt, and a separate suction cleaning roll acting through the outer face of said transfer felt.

2,653,524
CARTON ERECTING MECHANISM
Robert J. Hickin, Rittman, Ohio, assignor to The Ohio Boxboard Company, Rittman, Ohio, a corporation of Ohio
Application May 2, 1951, Serial No. 224,201
10 Claims. (Cl. 93—51)



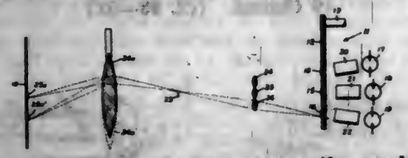
1. In mechanism for erecting cartons of the hook-end type having a pair of complemental vertically erectable flap members each provided with interhook means, said hook means being interengageable by relative vertical movement of said flap members, means for applying pressure to the carton in the direction of engagement of said hook means, and means functioning directly counter to the direction of such applied pressure for engaging and limiting movement of said flap members under the influence of such applied pressure.

2,653,525
LANDING MAT
John Sargeant McGuire, Kansas City, Kans.
Application January 16, 1950, Serial No. 138,536
4 Claims. (Cl. 94—4)



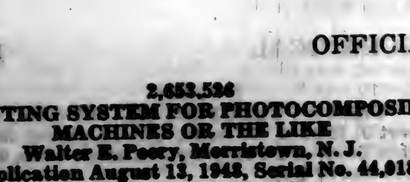
1. A mat for aircraft landing strips consisting of a panel of fibrous reinforced resinous plastic having a flat upper surface, spaced hollow bosses integral with and depending from the opposite surface of said panel, the bosses terminating in closed spherical ends, the panel and walls of the bosses being substantially uniform in thickness, spherical recesses in the upper surface of the panel coaxial with the bores, a plurality of equally spaced boss segments along edges of and depending from the panel, the spacing of said boss segments corresponding to the spacing of the bosses on the panel, and ring members on selected boss segments of said panel and extending therefrom for receiving complemental boss segments of adjacent panels to secure the panel thereto in edge abutting relation.

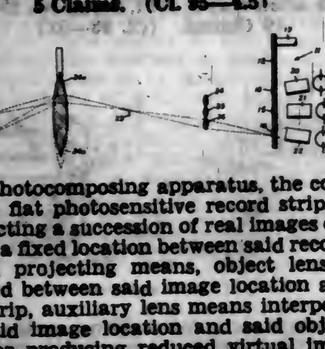
2,653,526
PRINTING SYSTEM FOR PHOTOCOMPOSING MACHINES OR THE LIKE
Walter E. Peery, Morristown, N. J.
Application August 13, 1948, Serial No. 44,018
5 Claims. (Cl. 95—4.5)



1. In photocomposing apparatus, the combination of a flat photosensitive record strip, means for projecting a succession of real images of characters at a fixed location between said record strip and said projecting means, object lens means interposed between said image location and said record strip, auxiliary lens means interposed between said image location and said object lens means for producing reduced virtual images of said real images, said object lens being disposed nearer said real image location than said record strip so as to project enlarged images of said virtual images upon said record strip, and means for displacing said object lens means relatively to said fixed location where the real images are formed along a normal to the optical axis thereof with said optical axis disposed substantially perpendicular to both the record strip and the plane of said real images.

2,653,527
PROCESS FOR TREATING PHOTOSENSITIVE MATERIALS BY SPREADING THEREON A LAYER OF PROCESSING LIQUID AND APPARATUS FOR PERFORMING SAID PROCESS
Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application February 19, 1947, Serial No. 729,578
14 Claims. (Cl. 95—13)





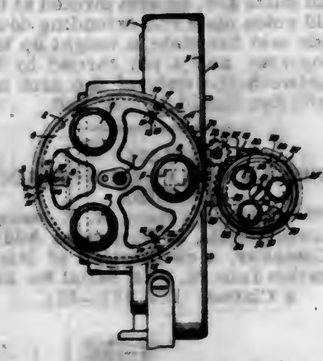
1. The method of transforming an image in a predetermined area of a photographic, photosensitive sheet material, said image having been formed in the photosensitive layer of said sheet material by photoexposure, which method comprises locating a liquid-tight, rupturable container adjacent one edge of said area with the long dimension of said container substantially parallel to said edge, said container having an elongated liquid-containing cavity of a length at least equal to the width of said area, said cavity holding a viscous processing liquid at least in sufficient quantity to provide all the liquid for said image transformation, said processing liquid containing a solid film-forming colloid for substantially increasing the viscosity thereof, and, while maintaining said container and said sheet material fixed with respect to one another, moving the same relative to a pair of pressure-applying members, said relative motion causing said members to squeeze the contents from said container along substantially the entire length of the liquid containing portion of the container, one of said members contacting the surface of said container and thereafter contacting the released liquid to spread the same in a thin layer during the continuance of said relative motion, the surface of said last-named pressure-applying member in contact with said liquid having substantially less affinity for said liquid than has said element whereby the liquid and the film-forming material therein adhere almost entirely to the photosensitive sheet material upon separation of said last-named pressure-applying member and said sheet material.

11. In a photographic apparatus, mechanism for subjecting an exposed photosensitive film to a predetermined processing by spreading thereon the contents of a rupturable container, said mechanism comprising means defining a first lighttight chamber in said apparatus, means defining a second lighttight chamber in said apparatus adjacent said first chamber, a passageway connecting said first and second chambers so that an exposed photosensitive film may be fed directly from said first chamber to said second chamber, said second chamber comprising a pair of passages connecting with the exterior of the apparatus, each said passage being at least as wide as the width of said film and each having a light seal associated therewith, said passages being located opposite one another, a platelike member slidably mounted in said passages so as to extend through said second chamber and being adapted to have the photosensitive film superposed thereon in said second chamber, and means adjacent one of said passages providing a withrawal area at said passage having a thickness less than the combined thickness of a filled container, said platelike member and said film whereupon the rupture and spreading of the contents of a container are obtained when the latter is passed through said withdrawal area between said member and the film superposed thereon.

2,653,528
PHOTOGRAPHIC AND VIEW FINDER LENS TURRET COUPLING FOR PHOTOGRAPHIC CAMERAS
Arthur C. Mueller, Des Plaines, Ill., assignor to Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application June 30, 1952, Serial No. 296,407
11 Claims. (Cl. 95—44)

1. In a photographic camera, the combination of laterally adjacent rotatably mounted photographic and view finder lens turrets respectively of large and small diameters, equal pluralities of different respectively corresponding photographic and view finder lenses respectively mounted on said photographic and view finder lens turrets in

corresponding angularly spaced relation about the axes of said turrets, a constant drive connection between said turrets adapted to effect angular movement of said view finder lens turret greater than that of said photographic lens turret by a multiple such that of said multiple and the number of lenses on one of said turrets one is an even and the other is an odd number and



comprising transmission members respectively of large and small diameters respectively angularly fixed with said photographic and view finder lens turrets, and said photographic and view finder lenses being arranged in corresponding sequences respectively arranged correspondingly and reversely with respect to concomitant rotation of their respective turrets due to said drive connection.

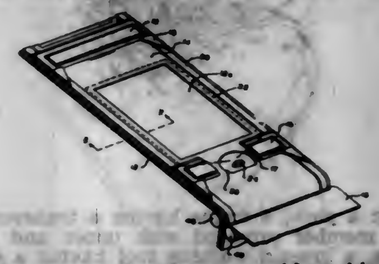
2,653,529
CYLINDRICAL CONTACT PRINTER
Hollie B. Stover, Centralia, Ill.
Application June 18, 1947, Serial No. 755,379
8 Claims. (Cl. 95—77.5)



3. A contact printing device comprising a frame, a transparent cylinder mounted on the frame, spaced rollers rotatably mounted on the frame below the cylinder, and an endless flexible belt encircling the cylinder for the full three hundred and sixty degrees thereof and trained around rollers, a portion of said belt being formed to permit another portion thereof to pass therethrough in leaving or in initial contact with said cylinder.

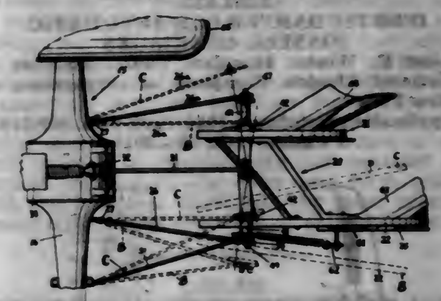
2,653,530
COMPOSITE PHOTOGRAPHIC PRINT-RECEIVING SHEET
William J. McCune, Jr., South Lincoln, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application November 13, 1951, Serial No. 255,995
In Canada October 20, 1948
6 Claims. (Cl. 95—88)

6. A photographic product comprising an elongated, flexible, composite image-receiving sheet material for use in a photographic transfer process as image-receptive material for receiving a transfer image and comprising an image-receiving layer, a masking layer superposed on and secured to a surface of said image-receiving layer and providing a mask over portions of said image-receiving layer, said masking layer having at least one aperture therein which defines a picture area by leaving an area on said image-receiving layer uncovered for receiving an image by transfer, said image-receiving layer being strippable from said masking layer and being provided with perforations which extend at least partially therethrough and which are located in adjacent relation to each said uncovered area at positions outside of marginal edges of said uncovered area whereby to provide a detachable section which includes said uncovered area and



a border surrounding the area, said masking layer overlying said perforations to cover the same, and a rupturable container mounted on said masking layer adjacent one edge of each said uncovered area, said container carrying a processing liquid which is spreadable from said container over said uncovered area, the liquid in the container being sufficient in amount to cover said uncovered area, said product containing photographic reagents, including a silver halide developer, so located that the release of the liquid from the container over an uncovered area of the image-receiving layer places said reagents in condition to form a transfer print of a latent image contained in a silver halide emulsion superposed on said uncovered area.

2,653,531
PLOW HITCH
Edgar V. Collins, Ames, Iowa
Application June 3, 1950, Serial No. 165,922
10 Claims. (Cl. 97—47.53)



4. A plow attachment for a tractor having a rear axle including a plow-carrying frame supported from said tractor at a position rearwardly of said axle, a transverse rock shaft carried adjacent the front end of said frame having a pair of longitudinally spaced rock arms arranged at substantially equal distances to opposite sides of the longitudinal center line of said frame, a pair of longitudinally extended draft arms of substantially equal lengths, corresponding to said rock arms, and having their rear ends movably connected to said rock arms and the front ends thereof movably connected to said axle, with

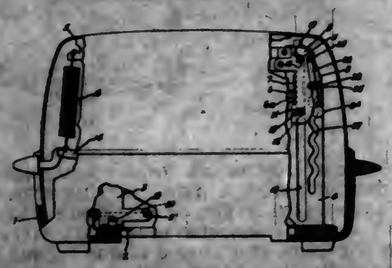
the connections of said draft arms to said axle being at substantially equal distances from opposite sides of said longitudinal center line, and a stabilizing arm movably connected to said axle and to one of said rock arms.

2,653,533
PLOW WITH SNUBBER ATTACHMENT
William T. Graham, Amarillo, Tex.
Application November 13, 1948, Serial No. 59,695
3 Claims. (Cl. 97—196.1)



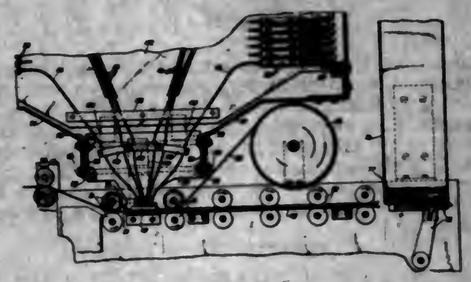
1. In a plow, a frame having a transverse I-beam member provided with upper and lower flanges, a ground working tool having a shank portion extending transversely of the lower flange of the I-beam member, clamp means engaging the lower flange of the I-beam and shank portion for rigidly securing said shank portion to said I-beam member, a snubber having a shank portion extending transversely of the upper flange of the I-beam member and a downwardly and rearwardly extending portion in bearing contact with the shank of the ground working tool in rearwardly spaced relation to the I-beam member, clamp means engaging the upper flange of the I-beam member and shank portion of the snubber for rigidly securing said snubber shank portion to the upper flange of the I-beam member, and means tying the shanks together on the forward side of the I-beam member whereby forces applied by the ground working tool are partially distributed by the snubber to the upper portion of the I-beam member to reduce the tendency of said forces to bend the lower flange of the I-beam member.

2,653,533
INERTIA DAMPER FOR AUTOMATIC TOASTER CARRIAGES
Walter R. Weeks, Hamden, Conn., assignor to General Electric Company, a corporation of New York
Application October 5, 1951, Serial No. 249,979
1 Claim. (Cl. 99—391)



In an automatic electric toaster having a frame, a toaster carriage which slides vertically with respect to the frame, and means biasing the toaster carriage toward non-toasting position and tending to move it vertically upward quickly from toasting to non-toasting position, means for retarding such movement comprising a vertically extending flat plate on the frame which forms a toaster carriage guide post, said flat plate being provided with a guide slot and an undular slot which extend longitudinally of said flat plate in parallel relation to each other, a pair of guide plates on the upper end of the toaster carriage positioned on opposite sides of said flat plate, guide rollers carried by said guide plate which ride in said guide slot, an arm pivoted at its upper end on said guide plate and extending downwardly alongside said flat plate, a weight on the lower end of said arm, and a pin carried by the arm midway between the ends of the arm having a head which rides in said undular slot.

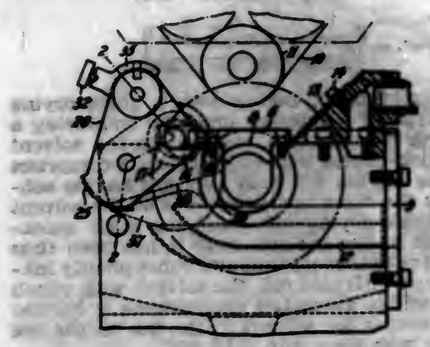
2,653,534
WIRE CHARACTER FORMING PRINTING MACHINE
William Weckenfuss, Union, N. J., assignor, by mesne assignments, to Burroughs Adding Machine Company, a corporation of Michigan
Application June 26, 1948, Serial No. 35,397
6 Claims. (Cl. 101—93)



1. In a printing machine under control of records wherein alphabetic characters are each identified by means of a combinational code consisting of two selectively disposed designations one of which is zonal and the other numerical, said machine comprising a single analyzing station having means thereat for successively sensing both the zonal and numerical designations of said code, means to feed records seriatim past said sensing means, a print unit including a plurality of printing elements each selectively operable in combination with others to form any one of a plurality of complete characters during a single operation of said elements, character-identifying electromagnetic devices each representing a different character and each controlling the operation of a different combination of printing elements, means responsive to the sensing of the zonal and numerical designations of a record at said single analyzing station for selecting the electromagnetic device which identifies the character represented by said sensed designations, means thereupon operable to energize the selected electromagnetic device, and means controlled by the energization thereof for imparting a single operation to the combination of printing elements to print the complete character identified by said selected electromagnetic device.

2,653,535
ROTARY PHOTOGRAVURE PRINTING APPARATUS
Angus Murray Halley, Moseley, Birmingham, England
Application June 29, 1950, Serial No. 171,151
In Great Britain May 8, 1950
5 Claims. (Cl. 101—157)

1. In a rotary photogravure printing apparatus, in combination, a casing, an image cylinder rotatable in bearings in said casing, a sealing member having convex cylindrical face and a portion in sealing engagement with the casing, a quasi-cylindrical doctor blade housing the cylindrical surface of which is in line contact



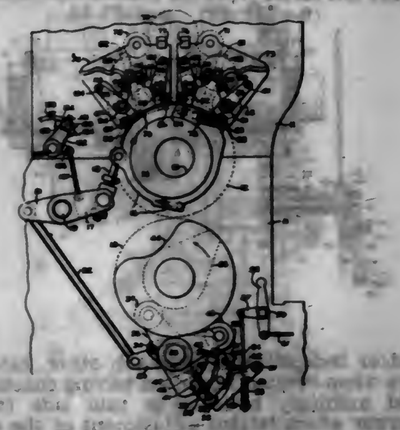
with said cylindrical face, means for rocking said doctor blade housing about an axis coincident with the centre of curvature of the cylindrical face of the sealing member and means for rotating the doctor blade housing about its own longitudinal axis.

2,653,536
METHOD AND APPARATUS FOR CONTROL OF WEBS IN WEB-HANDLING MACHINES
Otha Cooksey, Louisville, Ky., assignor, by mesne assignments, to Edwin G. Kerioth and Henry F. Thiele, Jr., partners, doing business as Kerthe Engineering Company, Schiller Park, Ill.
Application June 27, 1951, Serial No. 233,866
27 Claims. (Cl. 101—180)



10. A control assembly adapted for use with a web-handling machine such as a printing press or the like which is arranged to run at a relatively low speed for threading the web and at a relatively high speed for processing the web, comprising: a plurality of web control arms distributed at various points on the machine adjacent the web therein, each of said arms being arranged for movement between a position out of contact with the web as when the machine is being operated at said low speed for threading the web and a position in contact with the web as when the machine is being operated at said high speed; a control switch associated with each of said arms and arranged for actuation thereby as the associated arm moves between its positions; electrically controlled means to drive the machine at said high speed; and means controlled by said control switches to maintain said last-mentioned means inoperative when said arms are in the threading position.

2,653,537
FORM ROLLER AND CYLINDER TRIPPING MECHANISM
Henri E. Peyrebrune, River Forest, Ill., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application May 16, 1950, Serial No. 162,227
2 Claims. (Cl. 101—247)

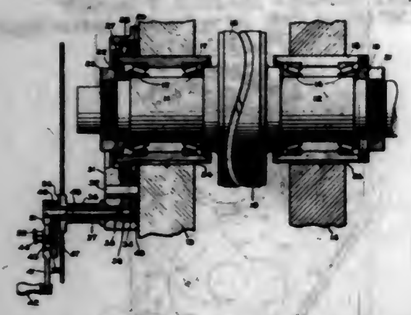


1. In a printing press having coacting form and impression cylinders, eccentric journalling means for tripping said form cylinder bodily in a curvilinear path with respect to the impression cylinder, and a main ink drum having rotation about a fixed axis, the combination of, an ink distributing unit for transferring ink from the main ink drum to the printing surface of the form cylinder, said unit comprising a rider roller having contact relation with the main ink drum to receive ink therefrom, form rollers having contact relation with the printing surface of the form cylinder to deposit a film of ink thereon, and a distributor roller arranged to transfer ink from said rider roller to said form rollers, auxiliary frame members for supporting said rider, distributor and form rollers for bodily movement as a unit, means interconnecting said eccentric journalling means with said frame members whereby relative motion in a predetermined path is imparted to said frame members and said rollers as a unit in unison with the form cylinder when the latter is tripped on and off impression, and stationary guide means having sliding engagement with the auxiliary frame members for controlling the angular relation between said frame members and the printing surface of said form cylinder to thereby maintain constant the contact relation of the rider and form rollers with the main ink drum and the form cylinder respectively for all positions of said cylinder.

2,653,538
PRINTING CYLINDER ADJUSTMENT AND LOCKING MEANS
Henri E. Peyrebrune, River Forest, Ill., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application July 17, 1950, Serial No. 174,243
5 Claims. (Cl. 101—248)

1. In a printing press of the class set forth, the combination of a side frame, a plate cylinder, journalling means for said plate cylinder including a bearing housing slidably mounted in said side frame for axial movement therein together with said cylinder, a pair of co-acting annular

members threaded onto the outer end of said housing, an auxiliary housing mounted on the side frame and having coaction therewith to prevent axial movement of said annular members, and control means including a manually operable lever associated with each said annular members for rotating said members in unison



and/or independently of each other, said members when rotated in unison having coaction with said auxiliary housing or said side frame to thereby effect lateral adjustment of the cylinder selectively in either direction and when rotated independently, having coaction with said housing and said side frame to thereby lock said cylinder in its adjusted position.

2,653,539

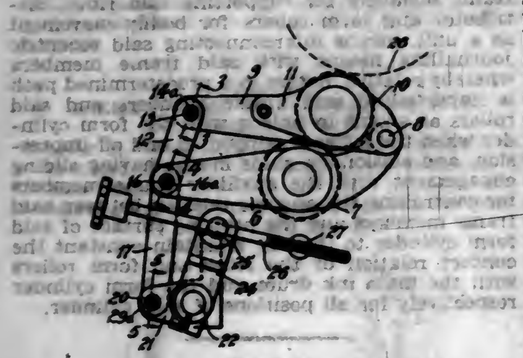
ROTARY PRINTING MACHINE

Angus Murray Halley, Moseley, Birmingham, England

Application June 29, 1950, Serial No. 171,155

In Great Britain May 8, 1950

6 Claims. (Cl. 101—352)



1. In a rotary printing machine in combination, a duct roller, a first lever pivoted about the axis of the duct roller at one side of the machine, a second lever at the same side of the machine and pivotally connected at one end to one end of the first lever, a forme roller having an end mounted in the second lever, a link connection between the free ends of the first and second levers, means for adjusting the effective length of said link connection and means for rocking both of said levers about the axis of the duct roller.

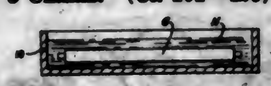
2,653,540

METHOD OF INKING TYPE OF PRINTING MACHINES WITH QUICK-DRYING INK

Carl R. Johnson, Keene, N. H., assignor to F. A. Putnam Mfg. Co. Inc., Keene, N. H., a corporation of New Hampshire

Application January 9, 1952, Serial No. 265,664

3 Claims. (Cl. 101—426)



1. The method of inking with a quick-drying ink the type of a printing machine employing a rubber ink roll which is pervious to the solvent in the quick-drying ink, which method comprises saturating the ink roll with a solvent having substantially the same characteristics as the solvent in the quick-drying ink, applying such quick-drying ink to the ink roll after it has been thus saturated with said solvent, and subsequently inking the type with said roll, the solvent with which the ink roll is saturated constituting a barrier which prevents the solvent in the ink on the ink roll from migrating into said roll.

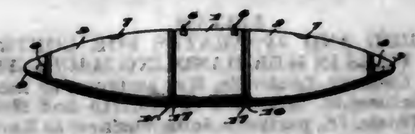
2,653,541

CONTAINER FOR INFLAMMABLE LIQUIDS

Albert E. Kanode, Towson, and Carroll H. Matsen, Middle River, Md., assignors to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland

Application October 7, 1949, Serial No. 120,027

2 Claims. (Cl. 102—6)



1. A container structure such as that used for fire bombs, comprising a nose section, a center section and a tail section, said center section being substantially cylindrical, said nose and tail sections being substantially circular in cross-section with a substantially conical exterior shape, bulkheads welded to said end sections and being concave inwardly thereof, said sections being provided with annular seating rings circumferentially attached to the open ends thereof, and annular ring gaskets placed therebetween for providing a fluid-tight seal between said sections, a tie rod extending axially through said sections and said bulkheads, annular sealing ring gaskets and washers having compound bevels formed thereon fitting around said tie rod outwardly of said bulkheads, said compound bevels mating the surfaces of said bulkheads and said sealing ring gaskets, nuts threadedly engaging said tie rod for securing said sections and said seals in fluid-tight relationship, said container being provided with supporting lugs attached thereon, openings formed in said container for filling, closure means for said openings when filled, and removable caps attached adjacent the end sections for reducing drag.

2,653,542

RADIAL PISTON ROTARY PUMP

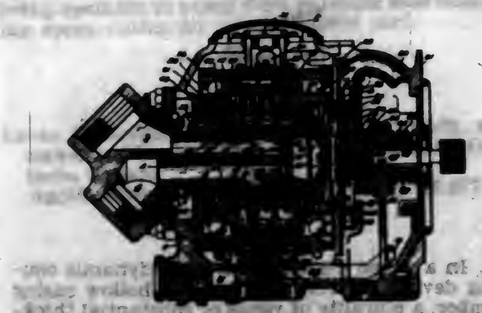
Roger F. Herton, Glastonbury, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application March 24, 1951, Serial No. 217,340

15 Claims. (Cl. 103—4)

1. In a radial piston rotary pump, a casing, a pintle mounted in the casing and a pump rotor

rotatable thereon, a drive shaft for the pump rotor passing through the casing for connection to an external drive, a seal for preventing passage of fluid through the casing around the drive shaft thereby retaining leakage fluid within the casing and in a space surrounding the rotor, a pocket in the casing surrounding the seal, a



scavenger rotor driven by the drive shaft for pumping oil leaking from the pump rotor, a discharge passageway for the scavenger rotor communicating with the said pocket, and a discharge passage from the said pocket, whereby oil pumped by the scavenger rotor may surround the drive shaft seal at pressures higher than atmospheric to prevent intake of air therethrough.

2,653,543

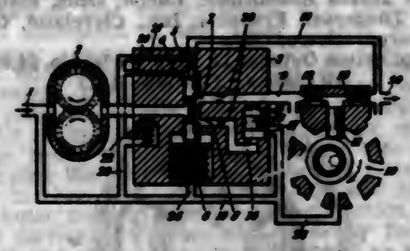
HYDRAULIC PUMP

Lawrence Farnell Mott, Walton, Stone, England, assignor to H. M. Hobson Limited, London, England, a company of Great Britain

Application May 2, 1951, Serial No. 224,223

In Great Britain May 3, 1950

6 Claims. (Cl. 103—5)



1. A two stage hydraulic pump, comprising a first pumping unit, a second pumping unit, a delivery conduit for receiving the discharge from the first pumping unit, a supply conduit to the second pumping unit, a pressure relief conduit, a piston-type off-loading valve for controlling the flow of liquid from said delivery conduit to said supply conduit and to said relief conduit, said valve having lands controlling respectively admission ports to said supply conduit and to said relief conduit, an outlet to receive the discharge from the second pumping unit, a conduit communicating with said outlet for applying to one end of said valve the delivery pressure in said outlet and a spring for balancing said valve against said delivery pressure, said valve being movable against said spring in response to increase in said delivery pressure to reduce progressively the effective area of the admission port to the supply conduit and to increase progressively the effective area of the admission port to the relief conduit and the relative configuration of said lands and ports being such that, over a given range of delivery pressure, the delivery of the pump decreases progressively and without sudden changes in response to increase in the delivery pressure.

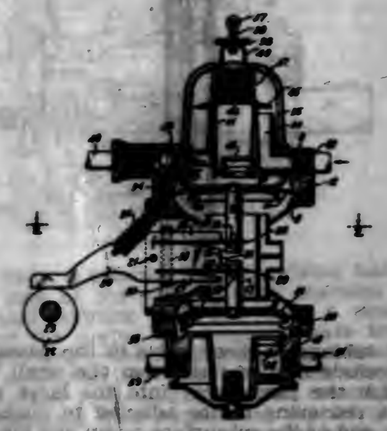
2,653,544

FUEL AND VACUUM PUMP OPERATING LEVERS AND OPERATING SPRINGS THEREFOR

Merris Katcher, New York, N. Y.

Application January 10, 1947, Serial No. 721,316

16 Claims. (Cl. 103—9)



2. A pivoted lever for use with rocking means for operating a diaphragm pump having a portion adapted to be engaged by said rocking means and a spring having an end part fixedly held on a second portion of the lever and another end part projecting beyond and clear of the lever, said latter end part being fastened to the diaphragm for reciprocating the latter against its resistance to motion when pumping when the lever is rocked, said second portion of the lever being shaped to engage the spring nearer the latter's projecting end part during the stroke of the lever in one direction for stiffening the spring, than during the stroke of the lever in the opposite direction, the strength of the spring being such as to yield, during the stroke in said opposite direction, a substantial amount, only when its projecting end part encounters more than a predetermined resistance against being moved during the latter stroke of the lever, the position of said fixedly held end part of the spring on the lever, relative to the lever and the diaphragm, being such that during the stroke of the lever in said opposite direction, the resistance of the diaphragm against motion effects the bending of the spring away from the lever.

2,653,545

WELL INSTALLATION FOR SUBSURFACE HYDRAULIC PUMPS

Oscar E. Dempsey and John B. Weeks, Tulsa, Okla., assignors, by mesne assignments, to Byron Jackson Co., Los Angeles, Calif., a corporation of Delaware

Application April 7, 1951, Serial No. 219,868

19 Claims. (Cl. 103—46)

1. In a well installation for a subsurface hydraulic pump, comprising a large tubing and a small tubing extending downwardly in the well, a housing secured to the lower end of the large tubing for the reception of the subsurface pump constructed and arranged to provide communication between the power inlet of the subsurface

pump and the small tubing and between the outlet of the subsurface pump and the large tubing, whereby power fluid flowing down the small tubing will operate the subsurface pump and the fluid pumped by the subsurface pump will flow up the large tubing, a passageway in the subsurface pump providing a by-pass passageway for fluid upon a reversal of flow in the large and



small tubings, a check valve in the passageway to preclude flow of fluid from the small tubing through the passageway into the large tubing, and a retrieving device adapted to engage the upper end of the subsurface pump and open said check valve, whereby fluid will flow from the small tubing through the passageway to act on the retrieving device and raise the subsurface pump through the large tubing.

2,653,546
SELF-PRIMING PUMP
Alfred S. Marlow, Jr., Ridgewood, N. J.
Application November 3, 1949, Serial No. 125,302
2 Claims. (Cl. 103—113)



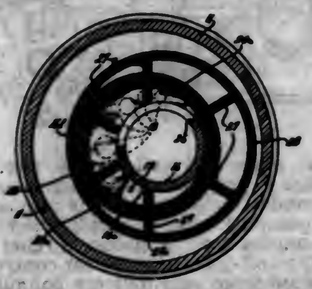
1. In a self-priming fluid pump, in combination, a pump housing including a reservoir for a supply of reserve fluid, a suction inlet and a discharge outlet in the pump housing, a centrifugal impeller arranged for axial rotation within the housing to exert driving forces for advancing liquid from the suction inlet through the reservoir to the discharge outlet, said impeller having its center of rotation in communication with said suction inlet, and a diffuser fixed intermediate of the periphery of the impeller and the reserve fluid reservoir and containing a series of co-extensively radiating flow passages separated from each other by the use of curved vanes, alternate vanes being equally spaced from the periphery of the impeller but consecutive vanes being unequally spaced from the periphery of the impeller, and alternate passages being provided with ports for direct communication from the impeller to the pump reservoir.

2,653,547
HYDRODYNAMIC COUPLING
Eric R. Langdon, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application March 1, 1947, Serial No. 731,739
5 Claims. (Cl. 103—115)



1. In a vaned element of a hydrodynamic coupling device, the combination of a hollow casing member, a plurality of vanes of substantial thickness fitting in said casing member, said casing member being formed of thin sheet ferrous metal and said vanes being formed of cast non-ferrous material, a deformable steel member formed of flat sheet metal stock, said deformable member being reversed upon itself to provide a head portion and a pair of parallel extending portions, said head portion and parallel extending portions being imbedded in each of said vanes and the latter portions projecting beyond the confines of said vane and extending through said casing member and being bent laterally in opposite directions so as to lie substantially flush with the outer faces of said casing member.

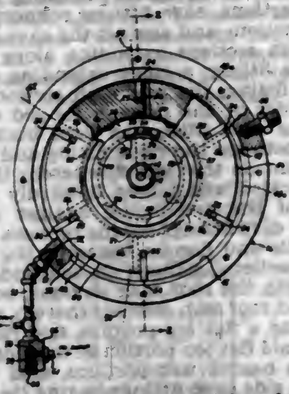
2,653,548
INTERNALLY PORTED VANE TYPE PUMP
Ernst Justus Bodensieck, Euclid, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application October 12, 1948, Serial No. 54,091
10 Claims. (Cl. 103—121)



1. A fluid transfer mechanism comprising, in combination, a pump casing, a hollow cylindrical rotor rotatably mounted in said casing and having a drive shaft extending through one end of said casing, a tubular core extending into and eccentrically disposed relative to said cylindrical rotor, said rotor and said core defining a pumping space therebetween, said tubular core having a central inlet opening and an outlet opening spaced radially outwardly and angularly thereof formed therein in communication with said pumping space, an end closure member mounted on said casing and having formed therein an inlet port communicating with said pumping space through said central inlet opening in said core and an outlet port communicating with said pumping space through said outlet opening in

said core, a plurality of vanes projecting through said cylinder rotor into said pumping space and radially slidable through said rotor when said rotor is rotated relative to said core, a floater ring in said casing, means retaining said ring around said vanes to hold the inner ends of the vanes against the core, and said vanes and said rotor being operable to pump fluid entering said pumping space outwardly to said outlet port.

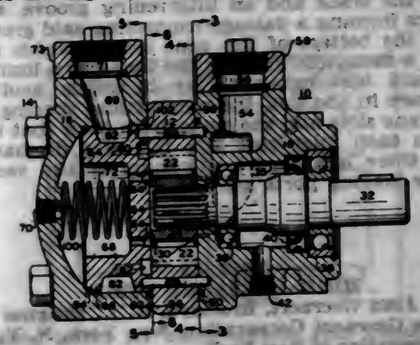
2,653,549
ECCENTRIC PUMP
Lorne F. Knight, Toronto, Ontario, Canada, assignor to Massey-Harris Co. Ltd., Toronto, Ontario, Canada
Application March 23, 1949, Serial No. 83,977
1 Claims. (Cl. 103—136)



An eccentric pump comprising in combination: a housing, a pump rotor having an axial bore, bearing means in said housing rotatably supporting said rotor therein and permitting axial movement of said rotor relative to said housing; a vane carrier supported for axial slidable movement over said rotor and rotatable therewith; pumping vanes projectable beyond the periphery of said vane carrier and supported for radial slidable movement therein; an annular recess in said housing having side walls enclosing the sides of said vanes and vane carrier in close tolerance relationship and having an inner surface defining in conjunction with said carrier a crescent shaped cavity forming input and output pumping chambers; an annular chamber in said vane carrier adjacent said rotor; a radial passage in said carrier between each adjacent pair of pumping vanes extending from said annular chamber to the outer periphery of said carrier; a check valve in said annular chamber, extending over each of said radial passages; and a radial passage in said rotor communicating between said bore and said annular chamber.

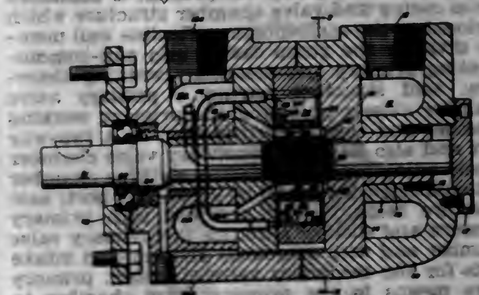
2,653,550
POWER TRANSMISSION
Duncan B. Gardiner, Detroit, Ernst F. Klessig, Berkley, and Henry C. Parsons, Grosse Pointe Park, Mich., assignors to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application October 7, 1950, Serial No. 189,028
6 Claims. (Cl. 103—136)

1. A reversible, rotary fluid pressure energy translating device comprising a body forming a main fluid displacement chamber having a rotor therein to provide circumferentially spaced fluid displacement zones either of which may be a fluid receiving zone while the other is a fluid delivery zone, a first fluid passage in the body formed entirely on one side of the displacement chamber and connected to one of said zones, a second fluid passage in the body entirely on the opposite side of the displacement chamber and connected to the other zone, each of said passages having a connection port at the outside



of the body, a pressure plate overlying said opposite side of the displacement chamber and rotor and forming with the body a pressure chamber for urging the pressure plate toward the rotor, said pressure plate having means normally separating the said zones and the pressure chamber from each other, and means forming a separate fluid passage for supplying fluid under pressure to said pressure chamber.

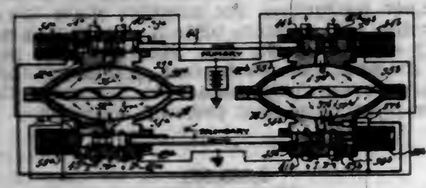
2,653,551
FLUID PUMP
Oscar E. Rosaen, Detroit, Mich., assignor, by direct and mesne assignments, to The New York Air Brake Company, New York, N. Y., a corporation of New Jersey
Application December 22, 1947, Serial No. 793,215
4 Claims. (Cl. 103—136)



1. An expansible chamber device of the vane type comprising in combination, a cylindrical rotor having spaced generally radial vane slots; rotor-enclosing structure having inlet and discharge connections and comprising means affording a rotor-encircling vane-track and side members which embrace the sides of the rotor, said structure defining diametrically opposite arcuate pump zones, diametrically opposite arcuate idle zones and interposed transition zones formed as inclines on the track, said structure having inlet ports and discharge ports connected with the inlet and discharge connections respectively and arranged in alternation circumferentially and each approximately coextensive with successive transition zones and with the vane-slot interval on the rotor, said structure also having loading ports dimensioned and located to con-

nect the inner ends of individual vane slots with the inlet connection when the slot passes an inlet port and with the discharge connection when the slot passes a discharge port, and to close such connections at other times; and laminated vanes reciprocable in said slots so as to follow said track, said vanes having beveled outer ends on two laminae to afford two spaced line contacts with the track and an intervening groove, and means forming a passage connecting said groove with the bottom of the vane slot in which the vane is mounted, whereby the vane has a limited outward bias developed by hydraulic loading pressure in the slot, the number and spacing of the vane slots and the ports being such that between each inlet port and the next discharge port there is always a minimum of two vanes whose loading ports are closed.

2,653,552
HIGH-PRESSURE PUMP
Leon Jean Geeraert, Brooklyn, N. Y., assignor to The Geeraert Corporation, New York, N. Y., a corporation of New York
Application August 15, 1951, Serial No. 241,925
16 Claims. (Cl. 103—152)



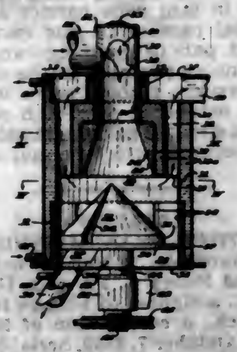
1. A high pressure pump of the flexible wall type for operative connection to the pressure and suction lines of a power-giving primary circulation system and to the intake and delivery lines of a secondary conduction system for the fluid to be pumped, said pump comprising: a combined pump casing and valve chamber structure which is closed to the atmosphere; a flexible wall member dividing the pump casing into non-communicating primary and secondary working chambers; said structure having a primary valve chamber closely adjoining the primary working chamber and connected therewith by a two-way port and also having a secondary valve chamber closely adjoining the secondary working chamber and connected therewith by a two-way port; said structure being further provided with primary pressure and suction ports for the primary valve chamber and with secondary delivery and intake ports for the secondary valve chamber; primary valve means in the primary valve chamber to connect the corresponding two-way port alternately with the primary pressure and suction ports; secondary valve means in the secondary valve chamber to connect the corresponding two-way port alternately with the secondary delivery and intake ports; positively acting means for interlocking operation of the primary and secondary valve means in a manner whereby opening of the primary working chamber to the primary pressure port and synchronous opening of the secondary working chamber to the secondary delivery port is effected alternately with opening of the primary working chamber to the primary suction port and synchronous opening of the secondary working chamber to the secondary intake port; and means for intermittently triggering the valve operating means to cause sequential suction and pressure strokes of the flexible wall member.

2,653,553
PREFABRICATED GREENHOUSE
Saul Jacobs, Forest Hills, N. Y.
Application January 17, 1952, Serial No. 266,856
1 Claim. (Cl. 108—1)



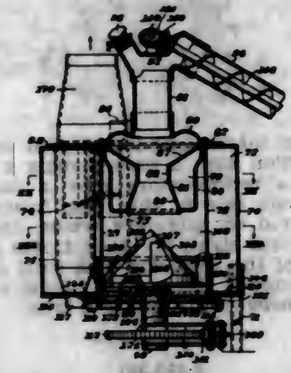
A greenhouse construction comprising bottom sills, front and side sash sections assembled upon such sills, eave sill members extending across the side sash sections, eave fittings connected to the side sash sections and against the eave sill thereof, roof sash sections extending along the eave sill, a ridge fitting, a ridge extending along the top of the fitting, the roof sash sections uniting with the sides of the ridge, a tie rod extending between the eave fittings, a turn buckle device connected between the ridge fitting and an intermediate point on the tie rod, whereby the tie rod may be buckled and pulled upwardly to secure the sides of the greenhouse against spreading action, said eave fittings having recesses receiving the eave sills and flanges engaging the side and roof sash sections, flanges on said ridge fitting engaging with the roof sash sections, bolt means securing said roof sash sections thereto, said ridge fitting having a flat top portion, said ridge being secured to said flat top portion of the ridge fitting, said fittings having web portions, said web portions of the side eave fittings having tie rod ends respectively secured thereto and the web portion of the ridge fitting having the turn buckle device connected thereto.

2,653,554
APPARATUS AND METHOD FOR CONTROLLING COMBUSTION FURNACES FOR SOLID ORGANIC FUELS
Willard J. Hatten and Henning M. Carlson, Columbus, Ohio, assignors, by mesne assignments, to Bituminous Coal Research, Inc., Washington, D. C., a corporation of Delaware
Application June 11, 1949, Serial No. 98,434
2 Claims. (Cl. 110—29)



1. In combination, in a furnace system having a combustion furnace for solid organic fuels, apparatus comprising, a substantially tubular generally vertically extending combustion chamber for a live fuel bed, said chamber having a downwardly and outwardly flaring portion, the walls of said flaring portion being progressively more heavily insulated around said portion in a direction proceeding from the lower to the upper part of said flaring portion, a fuel feed conduit connected to said chamber adjacent the upper part of said flaring portion, and an air conduit connected to said chamber adjacent the upper portion of said flaring portion to supply at least primary combustion air generally downwardly into said chamber, whereby any tendency for said bed to change in thickness tends inversely to change the area at and directly to change the insulation around the top of said bed.

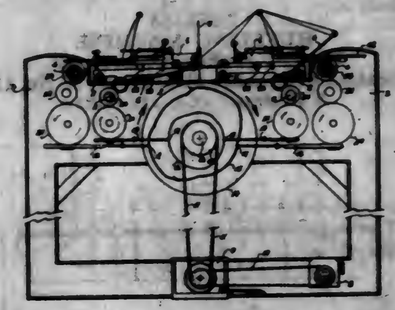
2,653,555
DOWNFLOW STOKER-FED FURNACE SYSTEM FOR BITUMINOUS COALS
Willard J. Hatten and Ralph A. Sherman, Columbus, Ohio, assignors, by mesne assignments, to Bituminous Coal Research, Inc., Washington, D. C., a corporation of Delaware
Application May 16, 1949, Serial No. 93,562
6 Claims. (Cl. 110—118)



1. In a heating furnace system for burning solid organic fuels including agglomerative bituminous coals, the steps comprising, maintaining a live fuel bed in a combustion zone, laterally confining the upper part of said live fuel bed in a smaller area than the area of the base of said fuel bed, maintaining fresh fuel separated from any contact with said live fuel bed, feeding that quantity of fresh fuel which can come into substantially direct contact with the confined top of said live fuel bed not to exceed a thin layer of said fresh fuel, and feeding primary combustion air downwardly past said fresh fuel so fed and into said live fuel bed substantially over the entire area of said confined top, whereby such solid organic fuels which tend to agglomerate will be prevented from caking in the course of being burned in said furnace system.

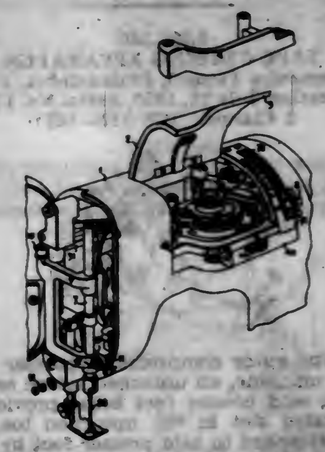
2,653,556
EMBROIDERING MACHINE
Eugenio Gerber, Buenos Aires, Argentina; Marcelo Sanchez Serondo, curator of the estate of said Eugenio Gerber, deceased, assignor to Gerber, Sociedad de Responsabilidad Limitada, Buenos Aires, Argentina
Application July 28, 1951, Serial No. 239,065
13 Claims. (Cl. 112—84)

1. Embroidering machine comprising at least one pair of co-operating mechanical embroidering hands each provided with a pair of rotative members for providing a needle holder capable of handling a usual threaded embroidering needle between abutting ends of said rotative members and of inverting the direction of the same after each stitch through a cloth to be embroidered, a thread-pulling lever associated with each embroidering hand, and a mechanically operating driving mechanism in operative connection with both the embroidering hands and the thread-



pulling levers for reciprocating said hands and oscillating said levers; transmission means provided in each embroidering hand for imparting to its needle holder one half of a revolution derived from the linear movement of the reciprocating embroidering hand, and a spring device incorporated in each embroidering hand for operating a lever capable of controlling the needle holder in said embroidering hand.

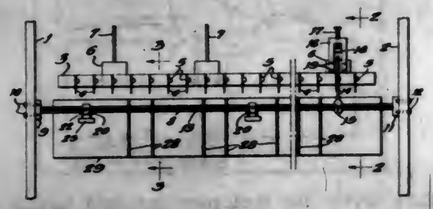
2,653,557
SEWING MACHINE
Ramon Casas-Robert and Jean Court, Geneva, Switzerland, assignors to Mefina S. A., Binningen, a corporation of Switzerland
Application December 3, 1950, Serial No. 199,776
In Switzerland December 17, 1949
12 Claims. (Cl. 112—98)



1. In a sewing machine, the combination comprising a support oscillatable on a vertical axis, a needle-carrying bar mounted on said support, a framework for said machine, a securing device operable to connect said oscillatory support to said framework to prevent oscillation of said support seatings in said framework, a second removable support attachable to said seatings, accessory mechanical members mounted at least in part on said second support, a first set of said accessory members connectable to said oscillatory support and when connected thereto and after

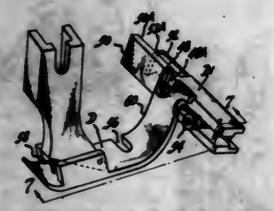
operation of said securing device to disconnect the oscillatory support from the framework controlling the movements of said oscillatory support, and adjustable means for varying the amplitude of oscillation of the oscillatory support, whilst retaining the possibility of carrying out normal sewing and darning.

2,653,558
RUFFLING MACHINE
Harry Krugliek, Chicago, Ill.
Application September 24, 1949, Serial No. 117,580
5 Claims. (Cl. 112—132)



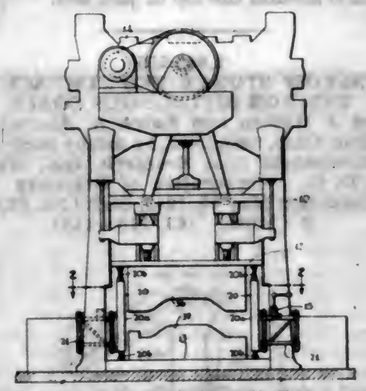
1. A ruffling machine comprising, in combination, a multiple needle arrangement, a horizontal bar positioned in front of said needle arrangement, a collar firmly attached to said bar, a lever arm firmly attached to said collar, an inverted U-shaped member firmly attached to said multiple needle arrangement, a set screw adjustably attached to said inverted U-shaped member and regulating the free clearance therein, said lever arm extending into said inverted U-shaped member and alternately contacting the lower portion of said set screw and the contiguous portion of said multiple needle arrangement, whereby said lever arm moves in response to the vertical movement of said needle arrangement, and ruffling means attached to said horisontal bar and moving in response to a rocking movement of said bar.

2,653,559
TAPE GUIDING APPARATUS
Domenico Picucci, Philadelphia, Pa.
Application July 21, 1950, Serial No. 175,098
2 Claims. (Cl. 112—152)



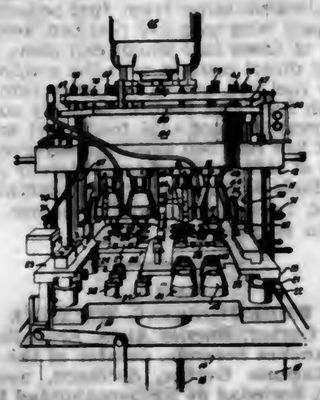
1. A tape guide comprising a presser foot for a sewing machine, an upturned toe on said pressure foot, said presser foot being provided with an elongated slot in the upturned toe, a first member attached to said presser foot by a screw disposed within said slot, a second member of flat configuration, said first member having a flat section extending from its center to one end of said first member, and a substantially square section extending to the other end of said first member, a slot through said square section extending longitudinally of said flat section to accommodate a locking nut threadedly engaged with said second member, said square section being provided with a shallow channel to slideably engage said second member, said second member being provided with a bent over portion to slide along said flat section of said first member, leaving an opening between the said first member, and the said second member to accommodate tape.

2,653,560
PRESS SAFETY JACK
Walter Bradhering, Philadelphia, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 28, 1951, Serial No. 223,535
8 Claims. (Cl. 113—38)



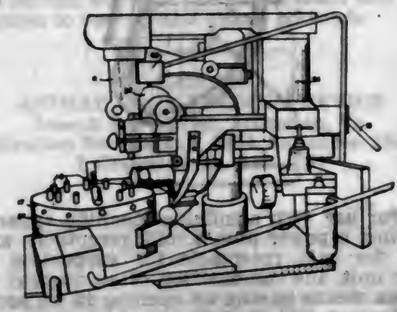
1. A press safety jack installation comprising in combination with a press having a frame, a base, and a reciprocatory ram, a jack frame hinged to one side of the press frame, a jack strut mounted on said jack frame, and a jack carried by said strut, the jack frame providing movement of the strut and jack from a non-use position alongside the press frame to a position of the jack between the ram and base.

2,653,561
METALWORKING MACHINE
Eugen Stiefelmayer, Dayton, Ohio, assignor to United Aircraft Products, Inc., Dayton, Ohio, a corporation of Ohio
Application June 20, 1949, Serial No. 100,137
6 Claims. (Cl. 113—52)



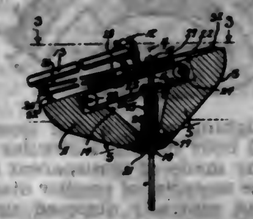
1. A machine for forming one-piece seamless baking pans characterized by a plurality of annular cavities or depressions, including a reciprocable platen, first and second series of frusto-conical forming dies carried by said platen in side-by-side relation, the dies of said first series being smaller than the dies of said second series and the dies of said second series being formed with a depression in the frustums thereof, a rotatable head member for each said dies supported in axially spaced relation thereto, a plurality of presser arms carried by each of said head members for angular sliding motion relative to the axis thereof, means for rotating said heads, means for effecting relative sliding motion between said heads and their respective arms in response to reciprocating motion of said platen to cause said presser arms to traverse said dies, means for mounting a flat metal blank between said first series of dies and its associated head members, and means for mounting a blank preformed by said first series of dies between said second series of dies and its associated head members, the preformed blank being inversely arranged relative to the flat metal blank and the tapers formed therein being received in the depressions in the frustums of the dies of said second series.

2,653,562
AUTOMATIC METAL SPINNING APPARATUS
Jack R. Tinsman, Park Ridge, and Richard J. Novy and James E. Thurlow, Chicago, Ill., assignors to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application September 14, 1949, Serial No. 115,714
4 Claims. (Cl. 113—52)



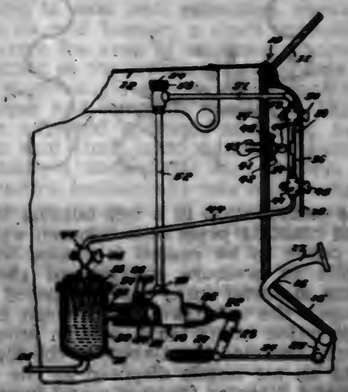
1. An automatic machine for spinning metal comprising a spinning head press, a spinning head connected to said press, an air-operated piston means for raising and lowering said head, a rotary work table for said press, the axes of said head and said rotary table being substantially parallel and displaced a short distance from each other, an air-operated piston means for rotating said rotary table in short steps, a plurality of work piece holders in spaced relation around a circumference near the perimeter of said rotary table, said circumference passing through the axis of said spinning head, a plurality of circular apertures in spaced relation around the periphery of said rotary table, the axes of said apertures being at right angles to the rotary table axis, an indexing plunger integral with said press and coaxial with a particular position said apertures assume during rotation of said rotary table, an air-operated piston means for moving said indexing plunger into said apertures, solenoid valves to control the air intake and exhaust of said first and second air-operated, piston means, two switches, means operating responsive to the raising of said head for operating one of said switches and operating responsive to the lowering of said head for operating the other of said switches, a power source for said solenoid valves, a circuit including said one of said switches, said power source, and said solenoid valves, said one of said switches connected in said circuit so that said circuit is completed when said head is raised to cause said first and second air-operated piston means to lower said head and to rotate said table one step, a second circuit including said other of said switches, said power source, and said solenoid valves, said other of said switches connected in said second circuit so that said second circuit is completed when said head is lowered to cause said first and second air-operated piston means to raise said head and to condition said table for further rotation, and means operated responsive to the lowering of said head for operating said third air-operated piston means and operated responsive to the raising of said head for restoring said third air-operated piston means.

2,653,563
BOOM AND RUDDER ASSEMBLY
William Long, Waldo, Wis.
Application December 5, 1951, Serial No. 259,928
3 Claims. (Cl. 114—39)



1. In a sail boat including a hull, a mast and a boom mounted for swinging movement on the mast; a guide sleeve, means rockably mounting the sleeve on the stern of the hull for swinging movement on the hull from one side of the longitudinal center line plane of the hull to the other, a rudder post rotatably mounted in the sleeve for swinging movement with the sleeve, an endless belt mounted transversely of the hull having an upper movable run and a lower movable run, a line carried by the outer end of the boom, means securing one end of the line to one run of the belt and means operatively connecting the other run of the belt to the post.

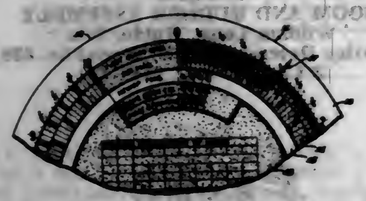
2,653,564
HYDRAULIC SYSTEM AIR TRAP
James Dewey Beucfield, Decatur, Ga.
Application May 15, 1951, Serial No. 226,418
3 Claims. (Cl. 116—118)



1. In a hydraulic brake system, the combination with a master cylinder, a plunger arranged

in said master cylinder, a brake pedal for operating said plunger, of a mechanism for trapping air including a housing arranged in communication with said master cylinder, a vertically disposed tube constituting an indicating gauge, a conduit connecting said tube to said housing, a light bulb for illuminating the tube, and pet cocks adjacent the ends of said tube for controlling flow of hydraulic fluid through said conduit and tube.

2,653,565
DIAL-TYPE SCALE
Bruce P. Adams, Wilmette, Ill., assignor to Pelouze Manufacturing Co., Evanston, Ill., a corporation of Illinois
Application March 18, 1949, Serial No. 82,249
6 Claims. (Cl. 116—133)



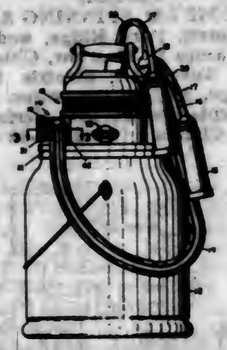
1. In a weighing scale, a dial assembly comprising a dial body having a circular configuration and being made of transparent material, a disk of opaque material of smaller diameter than said body and centrally disposed thereon, and an annulus of opaque material on said body in predetermined space concentric relation to said disk, the inner diameter of said annulus being larger than the outer diameter of said disk and the outer diameter of said annulus being smaller than the outer diameter of said body, whereby the face of said dial body is provided with a pair of clear and transparent annular rings in spaced concentric relationship on said body, said disk and said annulus having indicia scales marked on the outer peripheries thereof, and a pointer underlying said dial body and appearing through said pair of rings directly adjacent each of said indicia scales.

2,653,566
WEB COATING MACHINE
Elmer J. Worden, Kalamazoo, Mich.
Application January 18, 1951, Serial No. 206,539
2 Claims. (Cl. 118—63)



1. The combination in a web coating machine including coacting press rolls between which the web of paper to be coated is passed with the press rolls in pressure engagement therewith, of coating material spray pipes disposed to discharge upon the web traveling between the rolls in the direction of its travel and in advance of and toward and closely adjacent to the nip of the rolls, and an air nozzle disposed at the rear of the rolls and directed forwardly and inwardly to discharge a blast of air forwardly between the nip of the rolls at the edge of the web and forwardly and laterally inwardly of the web against the edge of the web and then onto the body of the web closely adjacent to the zone of engagement thereof between the nip of the rolls to transfer the coating material squeezed to the edge of the web by said rolls inwardly away from said edge and onto the body of the web rearwardly of and adjacent to the nip of the rolls, the nip of the rolls constituting means to support the edge portion of the web against displacement from the general plane of the web during such transfer operation.

2,653,567
CONDUIT CONNECTION FOR MILKING MACHINES
Elmer B. Thompson, Des Moines, Iowa, assignor, by mesne assignments, to Globe Hoist Company, Des Moines, Iowa, a corporation of Iowa
Original application December 6, 1945, Serial No. 633,240. Divided and this application March 12, 1951, Serial No. 215,685
3 Claims. (Cl. 119—14.4)



1. For use with a milking machine apparatus including a power unit, a milk receptacle, and a cover for said receptacle for supporting said power unit, the combination of an upright milk passage means having an opening in an upright face thereof and secured to said cover, an upright surface portion on said power unit having an upwardly extended cavity therein to loosely receive said milk passage means, such that when the power unit is in a supported and operative position on said cover said opening in said upright passage means is in the plane of said surface portion, a flexible conduit having a milk passage therein for connection to said milk passage means, and means engageable with said conduit for releasably clamping an end face of said conduit in a fluid sealed engagement against said surface portion and said upright passage means, with said clamping action providing for said milk passage means being clamped between said conduit end face and the side wall of said cavity whereby said cover and power unit are releasably secured for movement together.

2,653,568
STARTER GATE FOR RACE TRACKS
Andrew J. Lawson, Republic, Wash., assignor of one-half to Theodore R. McKeen, Republic, Wash.
Application May 17, 1952, Serial No. 288,417
4 Claims. (Cl. 119—15.5)

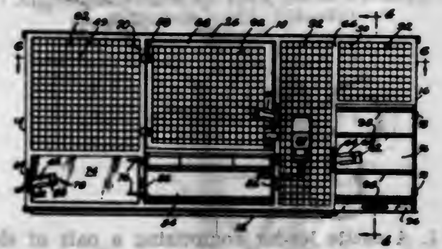
1. A starting gate for race tracks comprising a frame divided into stalls disposed in side by side relation to each other and open at front and rear ends, right and left hand gates for the front

end of each stall hinged at outer side edges for horizontal swinging movement from an opened position to a closed position in which their free side edges contact, plungers slidable longitudinally of said stalls, links pivoted to the front ends of said plungers and extending laterally from sides thereof and pivoted to said gates and serving to swing the gates forwardly to an opened position when the plungers are slid forwardly, a rocker shaft rotatably mounted in the upper portion of said frame transversely of said



stalls, crank arms carried by said rocker shaft and extending downwardly therefrom, levers disposed vertically and each pivotally mounted intermediate its length, links connecting lower ends of said levers with rear ends of said plungers, links connecting upper portions of said levers with lower ends of said crank arms, a sprocket wheel carried by said rocker shaft, and a sprocket chain trained about said sprocket wheel and extending downwardly therefrom and when pulled upon serving to rotate the rocker shaft and move the gates to opened and closed positions.

2,653,569
ANIMAL CAGE FEEDING DEVICE
Joseph E. Forester, Arlington, Va.
Application November 6, 1950, Serial No. 194,228
7 Claims. (Cl. 119—18)



1. A device for use with one substantially flat vertical side wall of a foraminous animal cage, said device comprising a housing having top, bottom and side walls, one side wall having a closable opening, an opposite side wall having a vertical and a lateral extension, a top and an end wall for said extension, said extension being provided with a floor inclined laterally to one side and providing a passage over said housing for the introduction of feed, whereby said device may be placed along one side wall of a cage to provide means for feeding animals.

2,653,570
ANIMAL FEEDER
Ray A. Grindstaff, Spokane, Wash.
Application August 18, 1952, Serial No. 305,049
2 Claims. (Cl. 119—53)

1. A feeder comprising a pan constituting a base, a downwardly tapered hopper over the center of the pan and open at upper and lower ends, a closure for the upper end of said hopper, plates carried by said hopper and projecting radially therefrom and spaced from each other circumferentially of the hopper, said plates extending outwardly at a downward incline from the hopper, outer end portions being formed with lower vertical slots leading from their lower edges and adapted to receive the upper marginal edge portion of said pan, said plates supporting the hop-



per over the pan centrally thereof and constituting partitions dividing the pan into feeding spaces about the hopper, upper vertical slots leading from the upper edge of alternate plates and disposed outwardly of said lower vertical slots, and a taut wire about the feeder and trained in alternate lower and upper vertical slots, whereby the feeding animal is prevented from pawing feed from the feeder.
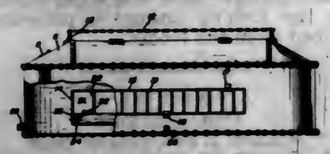
2,653,571
HOG FEEDER
William J. Pax, Celina, Ohio
Application May 7, 1952, Serial No. 286,463
1 Claim. (Cl. 119—53.5)



A hog feeder comprising a cylindrical hopper, a frustro-conical lower section on the lower end of said hopper, a feeding pan below said hopper, a lower cylindrical section on said hopper extending from the lower convergent end of said frustro-conical section, supporting bars fixed on said pan and said hopper for supporting said hopper above said feeding pan with the lowermost edge thereof spaced upwardly from said pan, a conical base fixed to said pan extending convergingly upwards in said hopper, a shaft extending upwardly from the apex of said base, a cylindrical plate carried by the lowermost end of said hopper slidable thereon for closing the space between said hopper and said pan, means for fixing said plate in adjusted position, and feed agitators loose on said shaft, said agitators including a substantially L-shaped flat bar, one arm of said bar extending horizontally into said feeding pan, an eye on the upper end of the other arm engaging about said shaft, rods extending from said other arm into the said frustro-conical section, U-shaped rods secured to said first arm and formed with legs extending parallel to said other arm into said lower cylindrical section for agitating the feed in said frustro-conical section and in said lower cylindrical section respectively upon rocking motion of said agitators, a plurality of trapezium-shaped closures for said feed pan, a rolled upper edge on said closures forming a tube, U-shaped bearing brackets fixed on said feeder

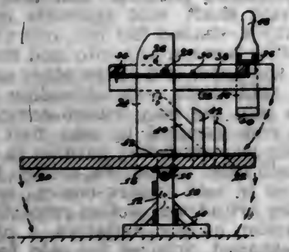
at each end of said closures, a rod extending through said bearings and said tube, outwardly divergent sides on said closures, downwardly extending flanges on said sides, U-shaped supporting members on said feeder between adjacent closures, said members tapering inwardly of said feeder, said flanges engageable in said members for sealingly supporting said closures in the closed position thereof, substantially L-shaped supporting brackets secured to said base at spaced peripheral points between said agiating members and serving as stops for limiting the movement of individual agitators to a distance not greater than the width of a closure, and a conical deflector secured to said brackets and positioned over said agitators having a space between the face thereof and said feed pan to allow movement of said agitators, said deflector keeping the weight of the food in said hopper off said agitators.

2,653,572
AUTOMATIC POULTRY WATERER
John T. Pelhemus, Peoria, Ill.
Application September 20, 1950, Serial No. 185,866
3 Claims. (Cl. 119—79)



1. A poultry drinking fountain comprising a tank having elongated side walls and a bottom wall, one of said side walls having an opening intermediate its upper and lower edges, said opening extending substantially throughout the extent of said one side wall, a box-like trough member of substantially rectangular cross section having a top, bottom, two ends and having one side open interiorly of said tank, and having its top, bottom and ends sealingly engaging the inside of said side wall around said opening and said side wall being spaced therebelow to form a trough, a grill secured to said tank in covering relation to said opening and including a plurality of spaced apart bars sub-dividing said trough into a series of poultry drinking stations, a conduit interconnecting said tank and said trough, and a float valve in said trough operatively associated with said conduit for maintaining a predetermined level of water in the trough.

2,653,573
ANIMAL RESTRAINING CHUTE
Harvey P. Johnson, Doniphan, Mo.
Application June 8, 1951, Serial No. 230,628
1 Claim. (Cl. 119—103)



An animal chute comprising a stand, a horizontally extending shaft carried by the stand in spaced relation to the bottom thereof, an elongated platform rockably mounted on the shaft, the mounting of the platform being nearer one end of the platform than the other end to cause the platform to tilt under the influence of gravity, upwardly extending spaced parallel arms carried by the platform adjacent opposite ends of the shaft, said arms having downwardly inclined rows of aligning openings therein remote from the platform, a pivot shaft extending through aligning openings in the rows of openings, a pair of elongated side bars mounted on the pivot shaft for rocking movement thereabout, cross bars carried by and extending between the side bars to form an elongated jaw member having one end disposed above the normally upper end of the platform, the pivot shaft being located near the end of the jaw member remote from the end which cooperates with the platform to cause said jaw member to tilt by gravity toward the platform, diagonal brace bars connected to opposite sides of the jaw member and to the arms, upwardly extending pickets fixed to the platform and to the brace bars, and manually releasable latches carried by the jaw member adjacent opposite sides thereof for engaging the brace bars and holding the jaw member in closed relation to the platform, said brace bars and said jaw members being substantially parallel to each other when in such closed relation.

2,653,574
CATTLE LEADER
Corte J. Spencer, Dundee, N. Y.
Application September 12, 1952, Serial No. 309,210
3 Claims. (Cl. 119—154)



1. A cattle leader comprising a pair of elongated handle bars, means pivotally connecting said bars, opposed hook members on the forward ends of the bars, a fastening lug on the rear end of one of the bars, said lug extending forwardly substantially parallel to said one of the bars and defining a forwardly opening slot therewith, and a flexible cable secured to the other bar, said cable being slightly greater in thickness than the width of said slot, for frictional securement in said slot, said one of the bars being formed with an aperture located rearwardly of said lug to receive the cable, whereby said cable may be lockingly engaged through said aperture and said slot and around said fastening lug.

2,653,575
LIQUID APPLICATOR FOR ANIMALS
Floyd O. Worden, Alliance, Nebr., assignor to Willis Edna Worden, Alliance, Nebr.
Application December 21, 1951, Serial No. 262,701
13 Claims. (Cl. 119—157)

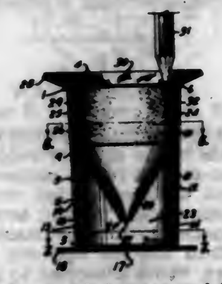
1. A liquid applicator for animals comprising a cylinder circular in cross section and having

heads at opposite ends, aligned stems at opposite ends of said cylinder projecting outwardly from the heads and disposed in upwardly eccentric relation to centers of the heads, posts, eyebolts passing through said posts transversely thereof, chains having links at their upper ends engaged through the eyebolts, said stems passing through links at lower ends of said chains, nuts upon outer ends of said stems and holding the chains in engagement with the stems, said stems mounting the cylinder for tilting movement about the stems and the chains mounting the cylinder for swinging movement about the eyebolts, the upper portion of said cylinder having discharge perforations spaced from each other longitudinally of the cylinder, a filling neck



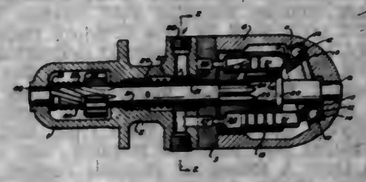
projecting upwardly from said cylinder and having a removable closure, a strip along said cylinder constituting a shield for the perforations, pins extending downwardly from the lower portion of said cylinder and spaced from each other longitudinally of the cylinder, a jacket of absorbent material surrounding said cylinder and decreasing in thickness towards the perforated upper portion thereof, and a pan extending longitudinally in said jacket under said cylinder and formed with openings through which said pins pass.

2,653,576
PENCIL POINTER CUP
Remigius J. Slattery, Tulsa, Okla.
Application April 12, 1951, Serial No. 220,676
3 Claims. (Cl. 120—91)



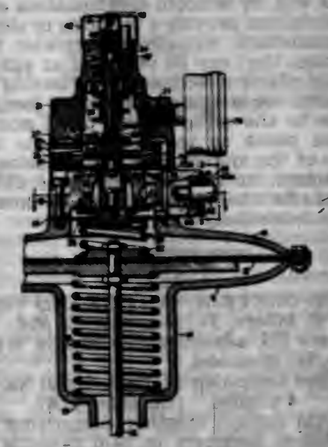
1. A pencil lead pointer comprising, a tubular body member having side walls in the form of an inverted cylindrical conical segment with the slope of said side walls corresponding to the taper desired on a pencil point, a cup-shaped bottom member removably mounted on the lower portion of the body member to close same, an inverted conical partition the upper portion of which is secured to the side walls between the top and bottom thereof and slopes inwardly and downwardly terminating in an apex spaced from the bottom and having a relatively small orifice therein, said side walls, bottom member and partition defining a substantially closed receptacle into which lead dust enters through the small orifice, said conical partition and location of the small orifice therein preventing escape of lead dust when the pointer is upset, and an abrasive secured to the inner surface of the side walls and concentric therewith between the partition and top of the side walls.

2,653,577
HYDRAULIC STARTER DRIVE
Albert C. Jenny, Cleveland, Ohio, assignor, by mesne assignments, to Hydraulic Systems, Inc., Cleveland, Ohio, a corporation of Ohio
Application December 21, 1948, Serial No. 66,465
4 Claims. (Cl. 121—37)



1. An hydraulic starter comprising a rotatable drive shaft, a sleeve mounted thereon for longitudinal sliding movement thereon, said sleeve having a piston portion at its one end, a starter pinion helically splined to said shaft at the other end of said sleeve, an hydraulic motor for driving said shaft, a porting plate with an inlet and outlet port, said motor having an inlet and an outlet port, resilient means for normally maintaining said sleeve and starter pinion in retracted position, hydraulic fluid metering means for imparting hydraulic power to said sleeve to extend it and said starter pinion on said shaft to a predetermined extent while simultaneously imparting hydraulic power to said motor to rotate said shaft relatively slowly and upon further extension of said pinion to rotate said shaft at a relatively greater speed, said metering means comprising passages to lead fluid from said porting plate to a point behind said sleeve piston on the opposite side of said resilient means and to the inlet port of said motor.

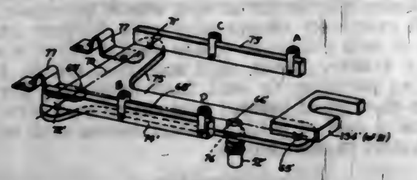
2,653,578
POSITIONER FOR FLUID OPERATED MOTORS
Coleman B. Moore, Carroll Park, Pa., assignor to Moore Products Co., Philadelphia, Pa., a copartnership consisting of Coleman B. Moore, Charles H. Thompson, Walter G. Trumbower, and Robert Buhner
Application September 8, 1949, Serial No. 114,541
5 Claims. (Cl. 121—41)



1. In a positioner for a movable member in an expansible chamber, a plurality of spaced pressure responsive members separated to provide a plurality of chambers and connected to-

gether for simultaneous movement, a resilient connector between said spaced members and said movable member, a connection to a source of pressure fluid, a pilot valve coaxially mounted with respect to said spaced members, said pilot valve having an upper seat in communication with said connection and a lower exhaust seat, a plunger member movable with respect to said seats and positioned by said pressure responsive members, means for continuously delivering fluid from one side of one of said seats to the other side thereof when said plunger member is in closing relation to said seat, a fluid connection for applying the pressure fluid from said pilot valve against said movable member, and a connection from a source of variable control pressure to one of the chambers for applying a pressure therein for positioning said plunger.

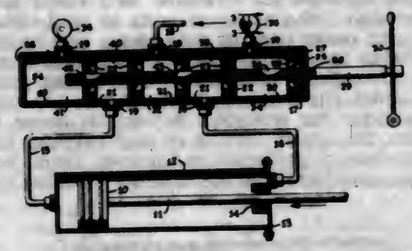
2,653,579
ELECTROMAGNETICALLY ACTUATED CONTROL FOR SERVO MECHANISMS
Lloyd Jackson Moulten, Menter, Ohio, assignor to The Marquette Metal Products Company, Cleveland, Ohio, a corporation of Ohio
Original application May 20, 1950, Serial No. 163,115. Divided and this application February 10, 1951, Serial No. 210,344
3 Claims. (Cl. 121—41)



1. A positioning servo system adapted for control by remotely energized solenoid strokes of approximately equal value, said system comprising stroke receiving members arranged for applying subdivided input motions at two spaced input points on an effective differential lever, a servo having an output point which determines a floating plane in conjunction with the two input points, an effective feedback lever lying in said plane and intersecting said differential lever at a point so located with respect to the two input points as will, by selected combinations of the input subdivisions, provide a plurality of stepped net input subdivision adjustments greater than the subdivisions that can be obtained at either input point, said effective feedback lever having an actuating point for a relay element so located with reference to the servo output point and the intersection point as to determine the amplifying ratio of the system, said system being further characterized in that the effective differential lever and effective feedback lever are combined in a single substantially rigid plate.

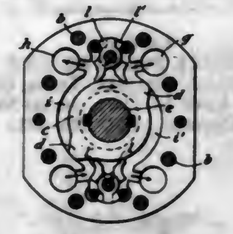
2,653,580
FLUID CONTROL SYSTEM AND VALVE
William R. Moore, Jr., Hagerstown, Md.; William R. Moore III, administrater of said William R. Moore, Jr., deceased
Application December 31, 1947, Serial No. 795,085
4 Claims. (Cl. 121—46.5)

1. A fluid control member comprising a housing, partition members in said housing including non-metallic portions extending inwardly a substantial distance beyond any adjacent metal portion defining a central chamber two intermediate chambers and a pair of end chambers, an inlet for admitting operating fluid into said central chamber, outlets for the discharge of operating fluid from the end chambers, a control member reciprocable in said partitions in contact only with said non-metallic portions and



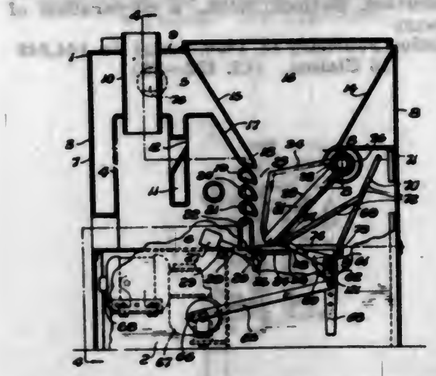
having recesses extending inwardly from the surface of and spaced along said control member for permitting flow from one side of the partitions to the other to control movement of fluid in said housing and sleeves maintaining said partitions in spaced relation.

2,653,581
HYDRAULIC POWER DEVICE
Willi Schubert, Berlin-Tegel, Germany
Application January 3, 1951, Serial No. 204,174
In Germany January 27, 1950
2 Claims. (Cl. 121—81)



1. In a fluid driven rotary piston motor a housing having side walls, a shaft supported in said side walls, disc-shaped rotors connected with said shaft, partition walls connected with said housing, said partition walls located between two adjacent disc-shaped rotors, a passage space for the driving fluid located between said housing and said rotors, vanes attached to said rotors at opposite parts of its periphery, inlet and outlet conduits in said housing for supply of driving fluid into the same and the discharge thereof, extensions in said housing connected with said inlet and outlet conduits, pairs of hingedly connected flaps rotatably supported in said housing, arms of said flaps being piston-shaped for movement in said enlargements, hollow pins located in said housing parallelly to said shaft and on both sides thereof to rotatably support said pairs of flaps in operative connection with said vanes, a bifurcated bearing part located on said pins and connected with one flap of each pair of flaps, grooves in the bearing parts of said pair of flaps, said grooves being in operative connection with said hollow pins in the swung-out position of the flaps to connect said space for the driving fluid with said discharge conduits and to return the flap for discharge by the pressure of the driving fluid on its piston-shaped arm upon their displacement by said vanes into its initial position.

2,653,582
FURNACE
Paul B. Greger, Reading, Pa.
Application August 16, 1946, Serial No. 691,114
13 Claims. (Cl. 122—30)



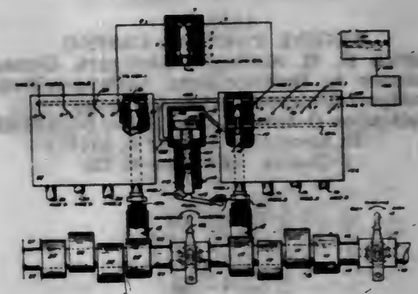
1. A furnace containing a fire box enclosing a chamber for burning solid fuel and comprising water cooled sidewalls, a movable grate and walls opposite to each other projecting upwardly from said grate between said sidewalls and having lower portions in close proximity to said grate, said walls confining a burning fuel bed on said grate and each of said opposite walls containing ports for respectively supplying air to burning fuel on said grate and permitting the discharge of gaseous products of combustion therefrom, said opposite walls each containing water circulating passages communicating with said sidewalls, one of said opposite walls being movable relatively to the other and to said grate and having a water circulating partition projecting therefrom substantially parallel with and intermediate said sidewalls and across a substantial portion of said chamber to divide it into communicating compartments.

2,653,583
WATER HEATER
Elmer E. Granger, Reno, Nev.
Application September 8, 1949, Serial No. 114,499
1 Claim. (Cl. 122—125)



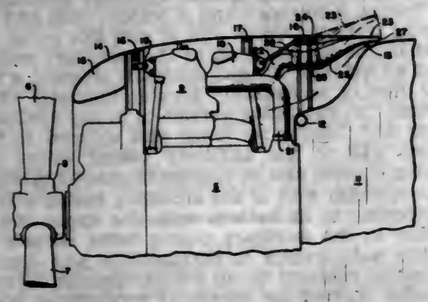
A water heater comprising a vertically disposed cylindrical main casing having a top wall and a bottom wall and an annular wall, a fire box under said main casing rigidly connected therewith and constituting a support for the same, a tubular flue extending vertically in the main casing centrally thereof and having its lower end secured about an opening formed centrally of the bottom and its upper portion projecting upwardly above the main casing through an opening in the top centrally thereof, a cylindrical auxiliary casing over the main casing spaced upwardly therefrom and having a top wall and a bottom wall and an annular wall, the upper end of said flue being secured to the bottom wall of the auxiliary casing about an opening formed centrally therein, a tubular flue of appreciably greater diameter than the first flue extending vertically in the auxiliary casing and having its lower end secured to the bottom wall of the auxiliary casing about the opening therein and in concentric spaced relation to the annular wall of the auxiliary casing and to the opening in its bottom wall, the upper end of the flue in the auxiliary casing being secured to the top wall thereof in surrounding and spaced concentric relation to an outlet opening formed centrally thereof for escape of products of combustion passing upwardly from the fire box through the flues, struts disposed vertically between the casings in spaced relation to each other circumferentially thereof and having upper and lower ends secured to peripheral portions of the casings, and water pipes connected with the casings.

2,653,584
FUEL INJECTION SYSTEM
Carroll E. Alden, Detroit, Mich., assignor to American Bosch Corporation, Springfield, Mass., a corporation of New York
Application September 18, 1951, Serial No. 247,079
8 Claims. (Cl. 123—32)



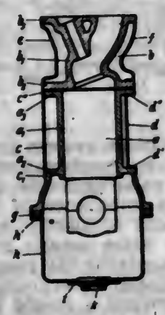
1. In a fuel injection system for internal combustion engines, in combination, an injection nozzle, a nozzle valve movable toward open or closed position by unbalance of hydraulic pressures cyclically and opposedly applied thereon, first reciprocable valve means for alternatively and sequentially applying full fuel injection pressure and a fractional intermediate pressure to urge said valve toward a closed position, means for reciprocating said first valve means, second reciprocable valve means for alternatively and sequentially admitting and preventing admission of fuel at full injection pressure to urge said nozzle valve toward its open position, means for reciprocating said second valve means, and means for altering the phase relations of the cyclical reciprocations of said first and second reciprocable valve means.

2,653,585
ENGINE COOLING AND EXHAUST ARRANGEMENT
Rudolf N. Wallace, Glastonbury, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application December 22, 1949, Serial No. 134,371
12 Claims. (Cl. 123—41.59)



1. In an aircraft power plant, an air cooled engine, a cowl for said engine, said cowl forming an annular cooling air exit, an exhaust gas conduit connected to said engine, a hollow cowl flap hingedly mounted upon said cowl at a forward edge of said cowl exit for controlling the flow of cooling air through said cowl and said cowl exit, said cowl flap having a bell-mouthed entrance portion cooperating with said exhaust gas conduit to conduct exhaust gases and a flattened exit portion in communication with each other through said hollow portion of said flap from said exhaust gas conduit through said hollow cowl flap to the external atmosphere at said cowl exit while simultaneously educting engine cooling air both into and through said hollow cowl flap nad through said cowl exit externally of said hollow cowl flap.

2,653,586
ENGINE PART OR CASING
Friedrich K. H. Nallinger, Stuttgart, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany
Application October 4, 1950, Serial No. 188,316
In Germany October 4, 1949
6 Claims. (Cl. 123—41.72)



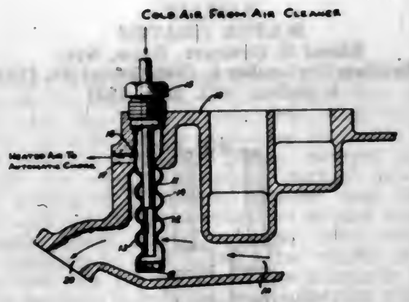
1. A metallic cylinder block for internal combustion engines comprising cylinder walls having upper and lower, outwardly extending end walls, a plurality of sheet metal plates, and means for cementing said sheet metal plates to said end walls in fluid-tight relation thereto whereby said cylinder walls, said end walls and said sheet metal plates form jackets for receiving cooling liquid for said engine.

2,653,587
VALVE SPRING SURGE DAMPING AND VALVE ROTATING DEVICE
Carlton A. Rasmussen and Robert T. Doughty, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 18, 1950, Serial No. 144,948
16 Claims. (Cl. 123—90)



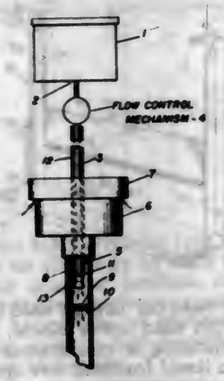
3. In an internal combustion engine or the like, a frame, a poppet valve slidably supported thereby for rotation and reciprocation, and valve reciprocating means including a return spring means having portions which rotate relative to each other about the axis of rotation of the valve when the valve is reciprocated, one of said spring portions being movable with the valve, the other of said spring portions forming a one-way rotary clutch engageable with the frame.

2,653,588
AUTOMATIC CHOKE AIR HEATER
Jacob Meinzinger and Wylie J. Veerheis, Detroit, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application December 21, 1950, Serial No. 202,122
2 Claims. (Cl. 123—119)



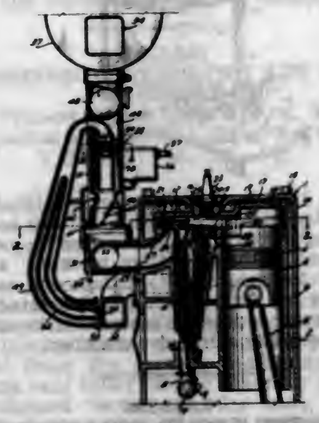
1. A heating system for producing hot air for use in an automatic choke on an internal combustion engine comprising an exhaust manifold, a central tube adapted to receive air to be heated at one end, a spirally convoluted shell surrounding the central tube and extending beyond the discharge end of said tube, and a cap closing the spirally convoluted tube at the discharge end of the central tube so that an elongated tortuous heating passage is provided, a portion of said spirally convoluted shell being located immediately adjacent a massive portion of the exhaust manifold and another portion of said spirally convoluted shell being immersed in the exhaust gas stream.

2,653,589
BOOSTER DEVICE FOR INTERNAL-COMBUSTION ENGINES
Alphonse Kraus, Rochester, N. Y.
Application July 20, 1946, Serial No. 685,072
4 Claims. (Cl. 123—119)



1. In the auxiliary control of the performance of internal combustion engines by the separate application of boosting agents, the dispersal of said boosting agents in the intake air within the air-intake assembly attained by a combination ahead of the carburetor comprising a shaped feed-line outlet, a flange in the air-intake shaft, a meshed screen upon that flange, a nonabsorbent and non-retaining filter pad provided upon said screen.

2,653,590
INTERNAL-COMBUSTION ENGINE
Carl W. Malstrom, Kansas City, Mo.
Application November 24, 1950, Serial No. 197,215
3 Claims. (Cl. 123—191)



3. In an internal combustion engine having a plurality of aligned cylinders, a cylinder head structure closing the outer open ends of said cylinders, said cylinder head structure being provided with a face complemental to the open cylinder ends with a plurality of recesses constituting combustion chambers, each combustion chamber having portions of different height with the roof portion over the cylinder in a series of steps, said combustion chambers having elongated portions to one side of the cylinders with sides substantially parallel and extending diagonally to the longitudinal cylinder axis plane, one of said parallel sides of each combustion chamber being substantially tangentially of the respective cylinder, a piston reciprocable in each cylinder and having a step shaped top complementary to the steps of the roof of the portion of the combustion chamber over the respective cylinder, said piston being movable into close proximity to the roof of the combustion chamber over the cylinder at the end of the compression stroke to substantially confine the fuel charge in the portion of the combustion chamber extending from the cylinder, inlet and exhaust valves in each of said extending portion of the combustion chamber in a line substantially parallel to the sides of said combustion chamber portion with the exhaust valves spaced from the cylinders and between the inlet valves and cylinders, and an ignition device extending into and disposed in each combustion chamber adjacent the respective exhaust valves whereby intake fuel mixtures sweep the exhaust valves and ignition device to cool same, said ignition devices igniting the fuel mixtures when substantially confined in the extending portions of the combustion chambers whereby substantial burning of said fuel mixture is accomplished before the confining portion of the piston and steps thereof move on the power stroke to completely open said extending portion of the combustion chamber for application of the full effect of the increased pressures resulting from said burning on the pistons.

2,653,591
SUPERCHARGER ARRANGEMENT
Gilmoure N. Cole, Manchester, and John S. Hasbrouck, Glastonbury, Conn., assignors to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application June 17, 1948, Serial No. 33,468
10 Claims. (Cl. 123—195)



1. In an engine, a crankcase section, a power shaft longitudinally therein, opposed openings on opposite sides of the crank case, cover plates on said openings, a rear plate on said section, accessories on said rear plate, connections from said shaft to said accessories, a main stage supercharger impeller in said crankcase section, and a drive from said shaft to said impeller including a gear on said shaft, in combination with opposed auxiliary stage superchargers arranged to be mounted on said opposed openings in place of said cover plates, each supercharger including an impeller and a mounting plate connected to the crankcase section and covering said opening and driving means for said auxiliary stage superchargers mounted on each of said mounting plates and having gears meshing with said gear on said shaft.

2,653,592
SPRING GUN
Joseph Sowitsky, Millville, N. J.
Application December 26, 1950, Serial No. 202,604
2 Claims. (Cl. 124—7)



1. A spring gun comprising: a stock consisting of a hand piece and a barrel piece; a stationary catch secured externally of said stock to the upper face of said barrel piece and rearwardly of the forward end of said barrel piece; a flat spring having a first end secured externally and forward of the mouth of said barrel piece and in a direction parallel to the axis thereof, and a second end forming a tip adapted to engage said catch; said spring, when engaging said catch, forming from said first end a loop having a substantial radius and located substantially entirely forward of, and above said mouth; said loop extending rearwardly toward said catch by a portion of said spring sloping downwardly at a substantial angle with said upper face and terminating into said tip; missile supporting means on said second end near said tip; said loop, said sloping portion and said tip being at all times external to said stock; said radius and said angle being such that a missile resting on said supporting means is projected substantially at right angle to said upper face when said tip is disengaged from said catch.

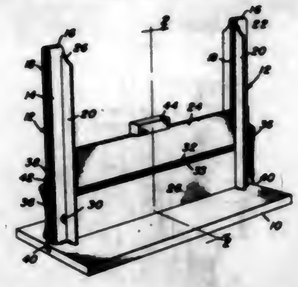
2,653,593
REPEATING AIR GUN
Edwin R. Foster, Austin, Tex.
Application October 10, 1952, Serial No. 314,158
19 Claims. (Cl. 124—13)



1. A repeating air gun comprising a barrel to hold a plurality of projectiles, a firing chamber at one end of the barrel including an annular resilient restriction through which the projectiles must pass and which seals against the outermost projectile, an annular inflatable sleeve in the firing chamber rearwardly of the restriction, a pump, a connection from the pump to the inflatable sleeve to inflate the sleeve into gripping and sealing engagement with a projectile inward of the restriction, and means forming a connection from the pump into the space between the last named projectile and the outermost projectile.

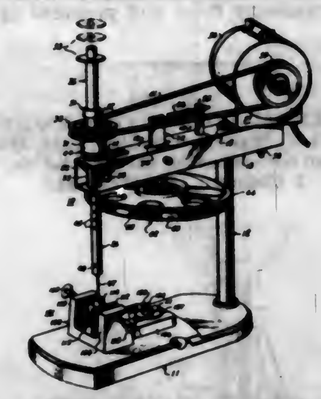
2,653,594
BRICK CUTTER
Jack R. Findley, Bellflower, Calif.
Application January 22, 1951, Serial No. 207,173
2 Claims. (Cl. 125—23)

1. A portable machine for cutting bricks, flagstones and the like which comprises a base having a pair of standards mounted thereon, each of said standards defining a vertical guide slot, upper and lower co-acting blades retained at their opposite ends in said guide slots, and coil spring means attached to the outer ends of said upper



blade and said base for urging said blade in cutting contact with said lower blade, each of said standards comprising a continuous flat portion bent back upon itself forming two spaced parallel upwardly extended members for defining a slot which is closed at its upper end.

2,653,595
HOLE-CUTTING DEVICE
Gerry L. Higgins, San Diego, Calif.
Application April 14, 1952, Serial No. 282,122
18 Claims. (Cl. 125—30)

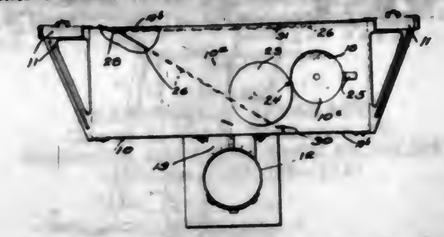


2. In a hole-forming device, a rotatable drive member for mounting a hole-cutting tool, a rotatably supported wheel positioned for peripheral engagement with said drive member, a pivoted mounting for said wheel, and means carried by said wheel for reciprocating said pivoted mounting to provide a rocking movement to said wheel for reciprocating said drive member.

2,653,596
CONVERTIBLE SOLID AND LIQUID FUEL-BURNING STOVE
James M. Dunston, Jeffersonville, Ind.
Application September 19, 1949, Serial No. 116,512
2 Claims. (Cl. 126—60)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. In a stove of the type having a hollow elongated body with a stovepipe connection, and a door at one end, a substantially flat baffle hinged at one end to the inside of the body adjacent the other end of the body, said baffle having an opening at its hinged end for passage of products of

combustion, the hinge axis being vertical and the width or height of the baffle being substantially equal to the distance between the top and the bottom of the body, the length of said baffle being such that it assumes an acute angular position relative to the body when swung on its hinge axis



to contact the body with its free end, and plural latch means on the body to hold the baffle either in said acute angular position or adjacent the wall of the body to which it is hinged, the interior of the body being free of obstruction when the baffle is in the position last described so that solid fuel may then be burned.

2,653,597
TONGUE DEPRESSOR AND MIRROR THEREFOR
Walter T. Canan, Pasadena, Calif.
Application December 9, 1949, Serial No. 132,178
2 Claims. (Cl. 128—15)



1. A tongue depresser comprising an elongated relatively flat strip of transparent material having a recess in the face thereof adjacent one end, and a translucent mirror having opposite reflecting surfaces located in said recess so that an image formed by the mirror can be seen either through the transparent strip or directly.

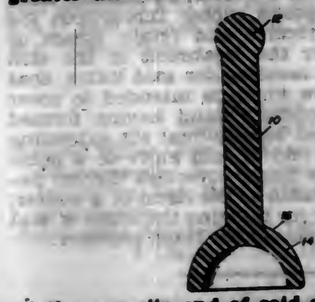
2,653,598
COMBINED TOOTHBRUSH AND GUM MASSAGER
Vincent Terino, Brooklyn, N. Y.
Application May 16, 1951, Serial No. 226,680
5 Claims. (Cl. 128—57)



5. In a gum massager, the combination which comprises an elongated handle having spaced arms extended longitudinally from one end, and a roller having spaced small rounded projections extended from the surface positioned between said arms, said roller having centrally positioned conical-shaped recesses in the ends, and said arms having conical-shaped projections extended into the similarly shaped recesses of the roller.

2,653,599
PROTRUDING HEMORRHOID SUPPORTER
Floyd I. Bell, Lead, S. Dak.
Application February 26, 1951, Serial No. 212,801
1 Claim. (Cl. 128—68)

A surgical instrument for the relief of piles and hemorrhoids, said instrument being of resilient material and one-piece construction and including a shank with a partial sphere at one end, said partial sphere being of a diameter slightly greater than the diameter of said shank, a stop



at the opposite end of said shank and having a convex surface on the side thereof nearest to said partial sphere, said stop having a recess in the lower end thereof.

2,653,600
MOUTH INSERT PAD
Molly Herman, Chicago, Ill.
Application March 11, 1952, Serial No. 275,974
1 Claim. (Cl. 128—136)



In a mouth insert pad, a thin elongated member of elastic insulation material for disposal freely in labial cavities of the mouth of a person, said member having a width slightly less than the depth of said labial cavities, said member having a peripheral notch centrally of one longitudinal edge to lessen the width of said member at said notch to permit a greater degree of adjustability of said member in said labial cavities, a grooved sponge rubber layer adhered to one face of said member, a band of absorbent material extending from end to end of said member along its inner face, and a normally invisible ink impregnated envelope containing said member.

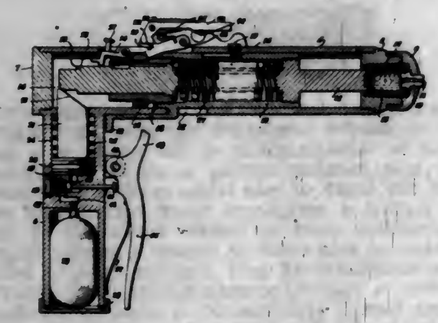
2,653,601
GLOVE
Elizabeth M. Morrison, Pontiac, Ill.
Application November 16, 1950, Serial No. 196,005
1 Claim. (Cl. 128—165)



A glove of the class described for closely enveloping the hand and fingers of a wearer includ-

ing individual finger coverings and being relatively long so that its terminal end extends past the hand and wrist of a wearer, a relatively thick porous lining of sponge rubber throughout the glove adapted to receive and retain cream or other substance for the treatment of the skin and an impervious covering for said lining, that portion of the glove which is intended to cover the back of the wearer's hand having formed therein an elongated longitudinal slit extending from the terminal end of said glove to a point closely adjacent the finger coverings thereby facilitating its applictaion to the hand of a wearer, and a slide fastener for bringing the edges of said slit together and maintaining them together.

2,653,602
INJECTION DEVICE
John H. Smoot, Darien, Conn., assignor to Becton Dickinson and Company, Rutherford, N. J., a corporation of New Jersey
Application June 17, 1950, Serial No. 168,797
9 Claims. (Cl. 128—173)



1. In a device for injecting liquid medicament, in combination, a hollow body providing a medicament chamber adjacent one of its ends, a pressure accumulator movably mounted within said body, means providing a surface extending from said accumulator and projectable therewith to move into said chamber and expel medicament therefrom, manually releasable latch means carried by said body and connectable with said accumulator for maintaining the same in retracted position, means movably connected with said accumulator and projectable with respect thereto to increase the pressure therein while said accumulator is maintained in such position, power means for operating said pressure increasing means and manually operated means for controlling said power means.

2,653,603
INJECTION APPARATUS
George N. Hein, Jr., San Carlos, Calif.
Application August 3, 1950, Serial No. 177,339
7 Claims. (Cl. 128—173)

1. A hypodermic injection apparatus including in combination a body having a medicament chamber, means movably mounted by said body to cause a forcible expulsion of medicament from said chamber, force-producing means, means connecting the same with said movable expelling means, movable braking means operatively coupled to said force-producing means and



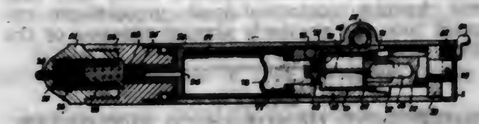
means rendered effective upon said force-producing means being operated in a certain manner to cause a functioning of said braking means.

2,653,604
INJECTION DEVICE
George N. Hein, Jr., San Carlos, Calif.
Application December 19, 1950, Serial No. 201,587
11 Claims. (Cl. 128—173)



1. An injection device including in combination a hollow body defining adjacent one of its ends a medicament chamber having a discharge opening, means movably carried by said body and cooperable with said chamber to expel medicament therefrom through said discharge opening, a mounting to receive a medicament reservoir, means furnishing a passage for liquid between such chamber and said reservoir, shiftable means cooperable with said reservoir for causing a transfer of medicament therefrom to said chamber through said passage, said body movably supporting said mounting, means for connecting said expelling means and mounting to move in unison and manually controlled means for moving said expelling and mounting means.

2,653,605
INJECTION DEVICE AND AMPOULE
George N. Hein, Jr., San Carlos, Calif.
Application March 22, 1951, Serial No. 217,005
26 Claims. (Cl. 128—173)



1. An injection device including in combination a hollow body, a member reciprocal within said body, a medicament-expelling part connected to said member to be movable therewith,

said member being hollow and containing gas under pressure, a unit fixed with respect to said body and distensible into said member to increase the pressure of gas within the same, means providing a chamber in communication with the interior of said unit to receive flowable material and means for retracting said member to cause said material to flow from said chamber to said unit.

2,653,606
TRANSFUSION APPARATUS
George R. Ryan, Waukegan, Ill.
Application July 6, 1949, Serial No. 103,262
12 Claims. (Cl. 128—214)



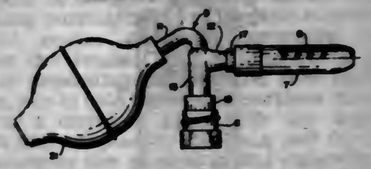
1. In a transfusion device, the combination which comprises: an imperforate, flexible, collapsible bag; a self-sealing flexible needle adapter; and a flexible structure integrally attaching and uniting said adapter to and with said bag to form part of the integument thereof and afford access to the contents of said bag by means of a cannula.

2,653,607
INJECTION APPARATUS
Sidney Alfred Vindin Deane, Rosemount, Quebec, Canada, assignor to Ayerst, McKenna & Harrison, Limited, St. Laurent, Quebec, Canada
Application September 28, 1950, Serial No. 187,277
In Canada September 16, 1950
1 Claim. (Cl. 128—221)



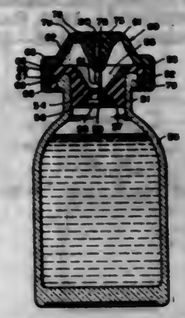
A needle for a syringe adapted for use with a medicinal cartridge, comprising, a hub adapted to be connected to the end of the syringe, a hollow needle extending through said hub and having a part extending to one side of the hub for injection into the subject and a part integral with said first part extending to the other side of the hub for piercing the sealing member of a cartridge, the second-mentioned part being sufficiently long to pierce an end plug member in the cartridge and a sealing member within the cartridge spaced from the end plug and separating the cartridge into cells, a plurality of orifices opening into the bore spaced apart at a position to open into the cell of the cartridge closest to the perforable end, and baffle means constituted by inward deformations of the walls of the needle blocking the bore of the needle between said openings and the end adjacent to the plug, one of said orifices opening into the bore beyond said baffle means.

2,653,608
INSUFFLATOR
Samuel Miller, New York, and Arthur C. Emslie, Mamaroneck, N. Y., assignors to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware
Application September 10, 1949, Serial No. 114,966
8 Claims. (Cl. 128—266)



1. A dispenser of the class described, in combination with a contact tube and receptacle for holding the material to be dispensed, a tube connected to said contact tube and receptacle, a source of air connected to said tube, said tube having a vertical portion inserted in said receptacle and a horizontal arm inserted in said contact tube, a gasket between said vertical portion and said receptacle, and a screen in said gasket for breaking up and preventing passage therethrough of large particles or agglomerates of said material.

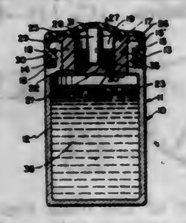
2,653,609
CONTAINER CLOSURE
Arthur E. Smith, Los Angeles, Calif.
Application August 26, 1950, Serial No. 181,669
1 Claim. (Cl. 128—272)



A closure comprising a cylindrical main body portion and a separate flexible auxiliary closure portion, said main body portion having an annular flange adapted to engage the exterior surface of the neck of a bottle, said body portion having a downwardly opening recess, a sealing disc at the lower end of said recess and closing said recess, a medicinal tablet in said recess, a piercable diaphragm integral with the body portion and closing the upper end of the recess, said auxiliary closure including a flexible body having a skirt thereon, said skirt engaging the outer periphery of said body portion annular flange and being secured thereto, a band engaging said skirt and adapted to engage a bottle neck to secure the closure to a bottle, said auxiliary closure having a depending integral stem made of hard rubber, said stem having a downwardly di-

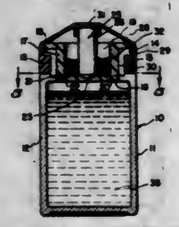
rected hole therein, a diaphragm closing the upper end of said hole, a tubular piercing member in said hole, said piercing member having a sharpened lower end, said piercing member being adapted to pierce said diaphragm and release said sealing disc.

2,653,610
DISPENSING CLOSURE
Arthur E. Smith, Los Angeles, Calif.
Application October 28, 1950, Serial No. 192,666
6 Claims. (Cl. 128—272)



1. A stopper including a body having an outwardly directed annular flange and having an annular wall defining a recess adapted to hold a quantity of a drug, a diaphragm integral with said annular wall and closing said recess, a pair of opposed grooves on opposite sides of said diaphragm and forming a frangible removable section and a rigid stem formed integral with the central area of said diaphragm and extending upwardly to a location above the upper end of said stopper flange.

2,653,611
CLOSURE
Arthur E. Smith, Los Angeles, Calif.
Application November 24, 1950, Serial No. 197,358
4 Claims. (Cl. 128—272)



4. In a container wherein a fresh drug solution may be prepared, a bottle having a body portion and a neck portion, a stopper within said neck portion and having an outwardly directed annular flange resting on the upper end of said neck portion, said stopper having an annular wall defining a recess adapted to hold a quantity of a drug, a removable diaphragm integral with said annular wall and closing said recess, an actuating rod in said stopper recess, said rod having a cross sectional area less than the area of the stopper recess, said actuating rod extending upwardly to a location above the upper end of said stopper flange, and an inverted cup shaped resilient closure member having a skirt portion engaging the stopper flange and the bottle neck portion.

2,653,612
SUNRAY HEAT CABINET
Charles R. Hoge, Severna Park, Md.
Application January 9, 1952, Serial No. 265,653
1 Claim. (Cl. 128—372)



A sun ray heat cabinet comprising a base, an arched roof pivotally mounted on said base and fitted thereover, said arched roof including a plurality of spaced structural shapes and transparent covering fitted between and supported by said shapes, said base being located at such distance from the arched roof as to lie below the focus lens point of the transparent covering to avoid burning of the user's body by the sun rays, said roof having a closed vertical end and an opening through the opposite vertical end, a sun visor carried by the last mentioned end above said opening to protect the head of the user extending through the opening, a handle mounted on the apex of the arched roof, and cooperating closure means carried by the roof and the base.

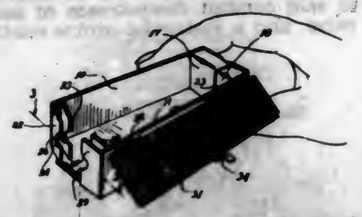
2,653,613
CIGARETTE IGNITING DEVICE
Manlio Victor V. Dussich, Verona, N. J.
Application January 4, 1949, Serial No. 69,220
2 Claims. (Cl. 131—170)



1. A device of the class described comprising a tube for receiving an end of a cigarette or the like to be lighted and a match stem receiving and holding channel secured to said tube at one end thereof, said channel extending substantially entirely outwardly from said tube in a direction away from the longitudinal axis of said tube, said channel being disposed at an angle of about 60° to 90° to the longitudinal axis of said tube.

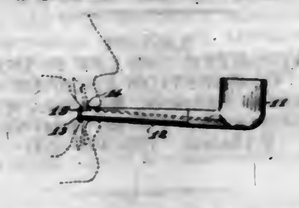
2,653,614
COMBINED CIGARETTE TRAP, ASHTRAY, AND HOLDER
Daniel J. Coffey, Bronx, N. Y.
Application December 14, 1950, Serial No. 200,803
2 Claims. (Cl. 131—174)

2. A combined cigarette ash tray and holder device comprising separable parts respectively having side and end portions and bottom portions overlapping each other, the bottom portions being pivoted together adjacent one end of the device, spring means normally biasing said parts at said end of the device so that upon pressing said separable parts together at said end of the device the parts at the other end will be separated from one another, said parts at the other end of the device terminating in cigarette-gripping portions for encompassing a cigarette and for retaining the same, said gripping portions having respectively opposed arcuate notches for receiving a cigarette and pin means extending diametrically of the notches from one of said gripping portions to pierce the cigarette when



the gripping portions are closed and to retain the cigarette therebetween against longitudinal and rotational displacement with respect thereto, and a foraminous top hinged at one side to a side portion of one of the parts and having a latch engageable with the side portion of the other part whereby to secure said gripping portions and the parts against disengagement when the cigarette is disposed therebetween.

2,653,615
SMOKING PIPE STEM
Weldon Robert McReynolds, Fairborn, Ohio
Application February 20, 1951, Serial No. 211,833
2 Claims. (Cl. 131—239)



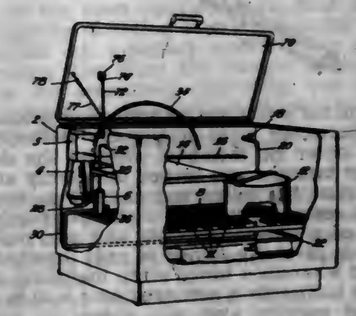
1. In a smoking pipe, a stem comprising a tubular conduit portion, and a solid bit at the end of said conduit portion, said bit being reduced in cross section, having an enlarged rim at its end and being downwardly offset relative to said conduit portion to define a shoulder spaced from said rim and substantially equal in height to said rim, said shoulder being formed with a passage in alignment and communication with the bore of said conduit portion, said passage and bore being substantially straight and sloping downwardly and rearwardly from said shoulder.

2,653,616
CIGARETTE HOLDER ATTACHMENT FOR BEER CANS
Armand L. Seigas, Brooklyn, N. Y.
Application August 29, 1949, Serial No. 112,955
1 Claim. (Cl. 131—257)



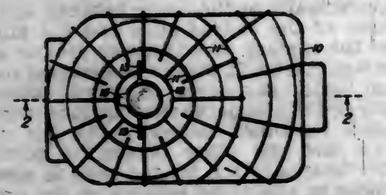
A cigarette holder for attachment to a can provided with an opening in the top cover thereof and wherein said cover has a beaded circumferential edge projecting laterally of the side wall of the can and wherein the opening is adjacent said beaded edge, said holder comprising a single member having aligned horizontal portions and depending portions spaced a distance corresponding substantially to the space between the outer periphery of the beaded edge and the adjacent edge of the opening of said can to provide a rigid connection therewith when in assembled relation thereon, said depending portions converging whereby one of said depending portions is adapted to engage the inner surface of the side wall of the can and the other depending portion is adapted to engage the beaded edge to maintain the holder in assembled relation on the can, one depending portion being in a plane substantially at right angles with the horizontal portion whereby the beaded edge is adapted to engage the said depending portion and said horizontal portion, one of said horizontal portions being concaved in a direction away from the depending portion and adapted to provide a rest for a cigarette whereby the portion of the cigarette adjacent the lighted end thereof can rest on the concaved portion and extend over the free end thereof, and one of the depending portions comprises a double bend to provide rigidity at that location.

2,653,617
PARTS WASHER WITH SAFETY HOSE
Adolph J. Zaber, Evanston, Ill., assignor to Gray-Mills Corporation, Evanston, Ill., a corporation of Illinois
Application July 15, 1946, Serial No. 683,586
2 Claims. (Cl. 134—56)



1. A metal parts washer comprising a tank having a rectangular plan configuration, an open top on said tank, a lid mounted on hinges along one side of said open top, a pump mounted inside the tank for circulating inflammable cleansing liquids, and a flexible delivery hose connected to the outlet of said pump and at a selected distance from its end mounted on that inner side of the tank that supports the lid hinges and near one corner of the tank, said hose at the point of mounting being directed upwardly and having a rigidity and a length such that it arches through the open top adjacent the lid with its end pointed downwardly, the length of the free end of the hose being less than the distance from its mounting and that point on the edge of the tank's open top toward which the hose is directed.

2,653,618
SOAP AND DETERGENT DISPENSER FOR WASHING MACHINES
William J. Frank, Rochester, N. Y.
Application April 29, 1950, Serial No. 159,093
2 Claims. (Cl. 134—93)



1. In a washing machine, in combination, a ringlike support provided with an opening, an open cup-shaped dispenser for dispensing soap or detergents having two aligned arms offset from a central plane of the dispenser, said arms supported by said ring and pivoting thereon, and locating said dispenser in said opening, and means for counterbalancing the dispenser being constructed to be overcome when water from the washing machine splashes into said dispenser.

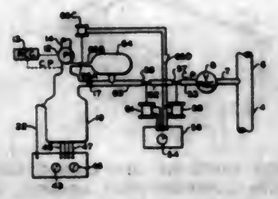
2,653,619
FOLDING UMBRELLA RIB
Paul Schmidt, Arlington, N. J.; Edward Schmidt, Stephen Radics, and Herbert Susser, executors of said Paul Schmidt, deceased
Application August 21, 1950, Serial No. 180,588
4 Claims. (Cl. 135—31)



1. A rib for a folding umbrella comprising pivotally connected cross-sectionally U-shaped inner and outer rib members wherein the sides of the inner member are turned outwardly and reentrantly at the outer end thereof to form an inverted cross-sectionally U-shaped portion at the end of a normal portion, and said outer rib member is pivotally joined to said inverted portion, and wherein a hinge strap including means to secure it thereto is arranged over said inverted U-shaped portion and said outer rib member is provided with a pintle which engages said strap for maintaining said outer member in pivotal engagement with said inner rib member.

2,653,620
PROCESS AND MEANS FOR REGULATING THE GAS PRESSURE IN CONTAINERS
Thomas D. Morgan, Oak Ridge, Tenn., assignor to Phillips Petroleum Company, a corporation of Delaware
Original application January 4, 1949, Serial No. 69,226, now Patent No. 2,582,647, dated January 15, 1952. Divided and this application August 3, 1951, Serial No. 240,244
8 Claims. (Cl. 137—14)

7. In a device of the character described an evacuated chamber, and means to regulate the pressure in said chamber comprising vacuum means for evacuating said chamber to a predetermined pressure, and means supplying gas to maintain said pressure comprising a constant pressure source of said gas, a conduit connecting said source and said chamber, a pair of cut-off valves in said conduit, means to open and close said cut-off valves in order whereby that portion of said conduit between them acts as a metering chamber, a pressure equalizing chamber connected to said conduit downstream of said last cut-off valve, and a restricted orifice controlling



flow from said conduit into said evacuated chamber.

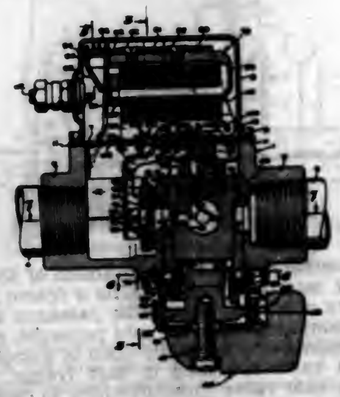
8. The process of regulating the pressure in a chamber comprising the steps of evacuating said chamber to a predetermined pressure, supplying a gas to maintain said pressure from a source of said gas at constant pressure, metering discrete volumes of said gas under constant pressure into a metering zone, passing said metered gas into a pressure equalizing zone and equalizing the pressure therein, and diffusing said gas from said equalizing zone through a restricted orifice into said chamber.

2,653,621
AIR REATOMIZER FOR USE IN INTERNAL-COMBUSTION ENGINES
Leandro Manzocco, Rosedale, N. Y.
Application October 1, 1949, Serial No. 119,675
2 Claims. (Cl. 137—53)



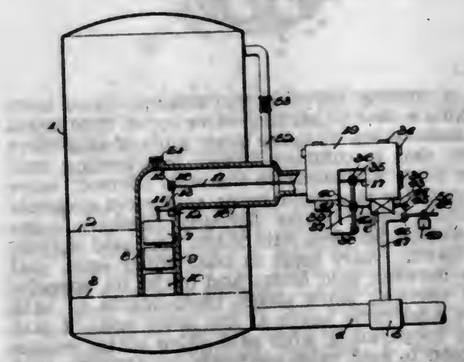
1. In a device of the class described, a housing including forward and rear capping members, an air inlet, and an air outlet, a rotatable spindle axially disposed in said housing and bearing in said forward capping member, a governor comprising a head secured on said spindle, radial recesses in said head, balls seated in said recesses, and a governor body loose on said spindle and actuatable longitudinally by said balls at increased velocities of said spindle; a longitudinally slidable valve having a capped central bore and a first and a second row of radial holes connecting thereto, and a sleeve member secured to said housing and comprising a first annular groove associated with the said air inlet, a second annular groove associated with said air outlet, and corresponding holes in said first groove registerable with the first row of radial holes in said sliding valve and corresponding holes in said second groove registerable with the second row of radial holes in said sliding valve when said valve is actuated longitudinally by said governor at increased velocities of said spindle.

2,653,622
AUTOMATIC SAFETY VALVE FOR FUEL BURNERS
William A. Ray, North Hollywood, Calif., assignor to General Controls Co., a corporation of California
Application October 18, 1948, Serial No. 55,119
8 Claims. (Cl. 137—66)



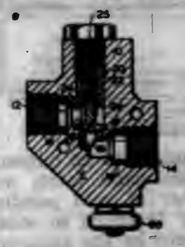
8. In a safety valve structure: a valve body having a main inlet and outlet port as well as a chamber into which one of said ports opens; a movable safety valve closure in the chamber and biased to closed position; a flexible wall defining said chamber; a mechanical latch member carried exteriorly of the wall and attached to and movable along with the safety valve closure; and an electromagnet having an armature that is moved to attracted position only in response to the energization of the electromagnet and independently of said movable safety valve closure, said armature having means engageable with said latch member to hold said safety valve open, said armature being biased to unattracted position.

2,653,623
LIQUID LEVEL CONTROL
Ralph William Hippen, Bellaire, and Clayton Lee Murphy, Sr., Houston, Tex.
Application January 23, 1950, Serial No. 140,128
16 Claims. (Cl. 137—413)



1. Apparatus for controlling the liquid level in a vessel comprising means forming a compartment within said vessel having a liquid outlet into said vessel at the minimum liquid level to be maintained and a gas outlet into said vessel above the maximum liquid level to be maintained, valve means for said gas outlet subjected to the gas pressure in said compartment and moved thereby to open position when a predetermined gas pressure is built up in said compartment for the escape of gases from said compartment to said vessel but closing to prevent passage of gases back into said compartment, a buoyant element in said compartment, means for controlling the amount of liquid in said vessel, and means connecting said buoyant element with said control means to operate the latter.

2,653,624
SEQUENCE VALVE
Ernst F. Klessig, Berkley, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application July 21, 1948, Serial No. 39,359
10 Claims. (Cl. 137—540)

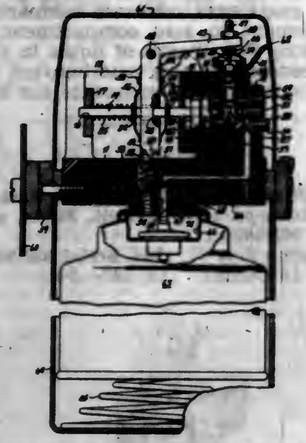


1. Sequence valve mechanism for use in a hydraulic power transmission system comprising in combination a body having a flow passage extending therethrough, a main check valve interposed in the passage permitting free fluid flow in one direction and normally preventing fluid flow in the opposite direction, operating means connected to the valve exposed to fluid flow in the said opposite direction and including a ventable control chamber for shifting the check valve to the open position when fluid flow is in the opposite direction and the control chamber is vented, an auxiliary check valve normally preventing flow from the control chamber, and means for selectively operating the auxiliary check valve to the open position to vent the control chamber.

2,653,625
INTERMITTENT FLUID DISCHARGE DEVICE
Gordon M. Peltz, Flushing, and Henry Bovin, New York, N. Y., assignors to Bridgeport Brass Company, Bridgeport, Conn., a corporation of Connecticut
Application May 15, 1951, Serial No. 226,284
4 Claims. (Cl. 137—599)

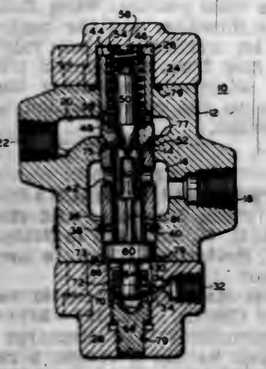
1. An intermittent fluid discharge device including a wall having a recess, a reciprocative wall closing said recess and forming therewith an expansible and contractible fluid chamber, a bracket spaced oppositely from said wall, a push rod connecting with and extending outwardly from said wall and reciprocatively past said bracket, mutually spaced abutments fixed to said push rod between said wall and said bracket, a coil compression spring between said bracket and the adjacent one of said abutments and biasing said wall inwardly, said block having an inlet duct feeding into said chamber and an outlet discharge duct leading from said chamber into the atmosphere, a flow choke in said inlet duct, a normally-closed valve blocking said discharge duct, a valve operator connecting with said valve and including an arm having an opening through which said push rod extends with said abutments

straddling said arm, said arm being pivoted to swing in line with said push rod's motion between a valve closing position corresponding to an inward position of said wall and a valve opening



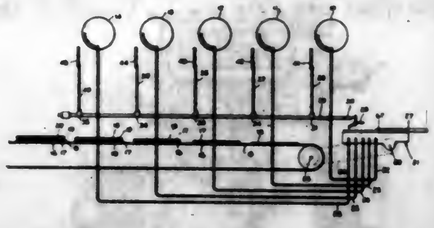
position corresponding to an outward position of said wall, force-released latch means holding said arm at either of said positions, and leaf springs oppositely fastened to said arm for respective engagement by the adjacent one of said abutments.

2,653,626
POWER TRANSMISSION
William G. Finlayson, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application September 14, 1946, Serial No. 697,140
4 Claims. (Cl. 137—599.2)



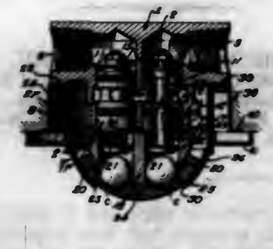
1. A counterbalance valve comprising in combination a pair of check valves concentric to each other, one of which is provided with a seat for the other, both check valves opening to flow in one direction and closing under the application of pressure in the opposite direction, fluid operated means responsive to pressure increases for shifting the other check valve to restrictively open the seat, said means including a piston having a pressure effective area substantially greater than the pressure effective area of the other check valve exposed to pressure in the opposite direction, the stroke length of said piston determining the size of the restrictive opening of the seat, and means for adjusting the stroke length of the piston to adjust the size of the restrictive opening of the seat.

2,653,627
DEVICE FOR AUTOMATICALLY CONTROLLING AIR ACTUATED MECHANISMS OF MACHINES
William M. Kelly, Westfield, N. J., assignor to John Confort, New York, N. Y.
Application January 7, 1948, Serial No. 864
10 Claims. (Cl. 137—625)



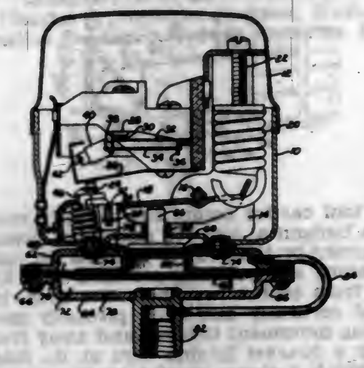
1. A control device for mechanism of the class described, said device comprising a frame having a plurality of spaced pneumatic passages, suction tubes communicating with said passages, each of said passages being normally open to atmosphere, a control valve mounted in said frame, means actuating said valve intermittently to close said passages successively, means retaining the valve in successive passage closing positions, means engaging the valve to hold the same in operative position for closing all of said passages, and tripping means for causing said valve holding means to be withdrawn, thereby releasing said valve for movement into inoperative position for opening all of said passages to atmosphere simultaneously.

2,653,628
MIXING VALVE
Lloyd Spencer, Hollywood, Calif.
Application November 26, 1946, Serial No. 712,393
10 Claims. (Cl. 137—636)



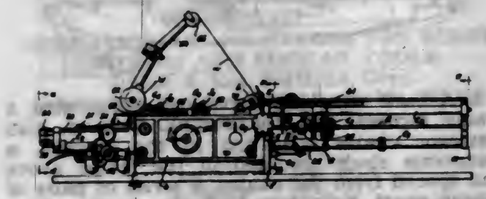
1. A mixing valve, comprising: a valve body defining a pair of parallel valve bores, fluid inlets communicating with the inner ends of said valve bores, and a common outlet intersecting said valve bores intermediate the ends thereof; valve elements for said valve bores, said valve elements including valve liners defining passages communicating between said inlets and said outlets, and having valve seats at their inner ends, seal rings between said liners and outlet on opposite sides thereof, valve stems reciprocable in said liners, and valve heads at the inner ends of said stems cooperating with said valve seats; means common to said valve elements for securing said valve elements in said valve body, said means defining cam follower bores registering with said valve elements; cam followers in said bores; a cam defining cam areas adapted to traverse said bores for engagement by said cam followers; and means for supporting and limiting movement of said cam to the boundaries of said cam areas.

2,653,629
VACUUM SWITCH
Frederick W. Hettenroth, Goshen, Ind., assignor to Penn Controls, Inc., a corporation of Indiana
Application October 30, 1948, Serial No. 57,480
3 Claims. (Cl. 137—787)



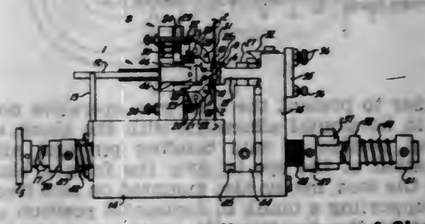
1. In a vacuum actuated control device, a diaphragm housing having an opening, a large diaphragm mounted therein and separating said diaphragm housing into two chambers sealed by the diaphragm relative to each other, a small diaphragm mounted in said opening and in sealing relation to the wall of said housing surrounding said opening, a vacuum connection to the space between said diaphragms, the small diaphragm being adapted to actuate a control element and responsive on its outside surface to atmospheric pressure, said large diaphragm being responsive on its outside surface to atmospheric pressure, and a spacer between said diaphragms comprising a disc against said large diaphragm and slightly smaller than it, said disc having a central embossed portion engaging said small diaphragm and slightly smaller than it.

2,653,630
APPARATUS FOR FORMING WIRE COILS
Stephen A. Platt, Wheaton, Ill., assignor to Wilbur B. Driver Company, Newark, N. J., a corporation of New Jersey
Application February 28, 1950, Serial No. 146,864
9 Claims. (Cl. 140—71)



1. A wire coiling device comprising in combination, a mandrel and means sustaining the mandrel horizontally for endwise movement in both directions and for axial rotation, an air actuated means to advance the mandrel endwise to a chuck engaging-first coil winding position, an air actuated means to retract the mandrel from final coil winding position, a rotatable chuck means and means sustaining the same horizontally in axial alignment with the mandrel axis for movement towards and away from the mandrel at chuck engaging-first coil winding position, a drive means for rotating the said chuck means, an air actuated means for moving the chuck into mandrel engaging position, an air actuated means for engaging the chuck with the mandrel and the drive means for simultaneous rotation of the chuck and mandrel, and air actuated means translating the rotative movement of the mandrel into forward thrust movement in the direction of chuck return to first position, and means feeding wire to the mandrel and chuck at the chuck engaging position and means actuated upon chuck engagement with the mandrel to engage the wire for coiling about the mandrel during mandrel rotation and forward thrust movement.

2,653,631
SUPPORT WIRE FORMING APPARATUS
Clayton T. Vaughan, Circleville, Ohio, assignor to General Electric Company, a corporation of New York
Application July 23, 1948, Serial No. 40,325
3 Claims. (Cl. 140—71.6)

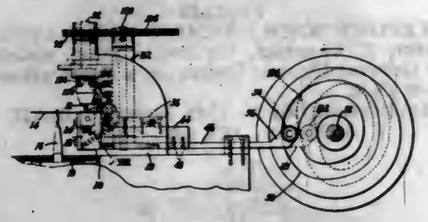


1. Apparatus for bending a group of filament support wires extending radially outward from an end of a lamp stem, comprising a bed portion, a fixed die block and a movable die block supported from said bed portion and spaced apart along an operating axis spaced from said bed portion, means to support a lamp stem in said axis with its said end abutting against the front end of said fixed die block and its support wires projecting beyond the sides of said die block, an open-sided hollow-centered bending head having thereon fixed bending fingers and movable bending fingers mounted for pivotal movement in radial planes intersecting at an axis at the hollow center of said head, means mounting said head from said bed portion in spaced axial relation to said fixed die block, means to cause movement of said bending head from a position laterally offset from said operating axis to a position centered about said axis and the stem therein and thence along said axis across the sides of said fixed and movable die blocks to cause said fixed fingers to engage and bend said support wires about said die blocks, means to cause said movable fingers to pivot radially inward when they have moved to a position adjacent the rear end of said movable die block to bend the extremities of the wires over the said rear end of the movable die block, means to retract said bending head, and means operative upon retraction of the bending head for moving the movable die block along said operating axis toward the fixed die block to permit ready disengagement of the formed wires.

2,653,632
EYE FORMING MECHANISM
Herbert A. Corbett, Auburn, N. Y., assignor, by mesne assignments, to Auburn Fishhook Company, Inc., Auburn, N. Y., a corporation of New York
Application September 2, 1949, Serial No. 114,039
8 Claims. (Cl. 140—104)

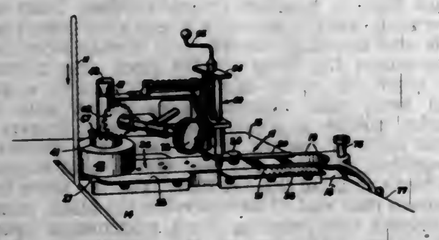
1. An eye forming machine comprising a frame member, a vertically extending bending pin

member having a blank engaging end portion, a shaft for mounting the bending pin for movement about a vertical axis, the axis of said bending pin being displaced laterally from the axis of said shaft and both being carried on said frame, a vertically movable platen, a slide carried by the platen mounted for movement transversely of the platen, a vertical stud carried by the slide both being carried in operative relationship by said frame, means also carried by said frame for moving the platen heightwise of the bending pin



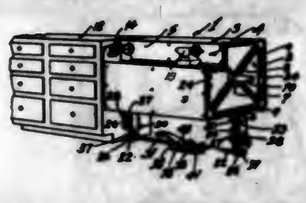
member to present the stud into operative position in horizontal alinement with the blank engaging portion of said bending pin and after formation of the eye to strip the formed blank from the stud, means also mounted on said frame for supporting a blank in horizontal position adjacent to the bending pin, means attached to said frame for moving the slide toward a fixed forming member to cause the stud to form an initial bend in the blank, and means on said frame for moving the bending pin about the said shaft axis to bend the end of the blank about the stud to form an eye.

2,653,633
FIXTURE FOR CUTTING CIRCULAR PIECES
Edward G. Anderson, Philadelphia, Pa.
Application June 25, 1947, Serial No. 757,039
3 Claims. (Cl. 142—171)
(Granted under Title 35, U. S. Code (1952), sec. 266)



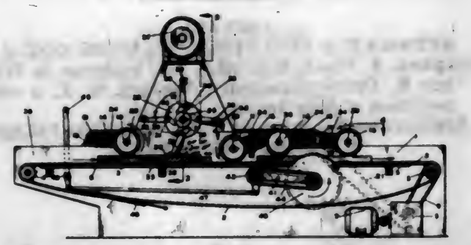
1. In a chuck construction for holding a workpiece of wood or the like material, a platen, a center pin projecting from the face of the platen, a guideway projecting from the platen, a carriage movable along the guideway, a chuck head supported by the carriage opposed to the center pin, a pivotal mount between the chuck head and the carriage to swing the chuck head into positions towards and away from the center pin, a stop limiting movement of the chuck head relative to the carriage into position towards the center pin with its face disposed parallel to the platen, a spring holding the chuck head resiliently against the stop, and a traverse for the carriage to actuate it along the guideway.

2,653,634
ROTATABLE TOOL SUPPORT HAVING POSITIVE LATCH MEANS
Raymond A. Mott, Mead, Wash.
Application August 4, 1952, Serial No. 302,522
3 Claims. (Cl. 144—1)



2. A tool carrier comprising a body rotatable about a horizontal axis for selectively presenting tools carried by the body in position for use, said body having end portions provided with keepers spaced from each other about the body, latches disposed vertically and each pivotally mounted for tilting movement towards and away from the body by a bracket having ears at its sides between which a sleeve carried by the companion latch fits, a pin carried by the ears and passing through the sleeve and tiltably mounting the latch, fingers extending from upper and lower portions of said bracket across opposite side edges for guiding tilting movement of the latch, a rocker shaft cooperating with said latches and when turned away from its normal position effecting movement of the latches to an inoperative position for releasing the body, and means yieldably holding the rocker shaft in its normal position.

2,653,635
BARK REMOVING MACHINE
Donald Denison, Cornelius, Oreg., assignor to Bates & Chard Company, North Plains, Oreg.
Application October 1, 1951, Serial No. 249,143
2 Claims. (Cl. 144—208)



1. A bark removing apparatus, comprising a frame formed with longitudinal grooves, slab conveyor chains operating in the grooves, a transverse shaft mounted in the frame above and spaced from the chains, a series of pairs of spaced-apart disks keyed on the shaft, collars keyed on the shaft to space apart the two disks forming each pair of disks, means on the shaft for spacing apart the respective pairs of disks, a series of transverse rods extending through the series of pairs of discs, a series of arms loosely mounted on the transverse rods, the arms of each series fitting between the two disks forming each pair of spaced-apart discs, the inner ends of the arms extending beyond the transverse rods for contact with the collars when the transverse shaft is rotated and the arms assume radial positions, the outer ends of the arms having hammers which when the shaft is rotated contact with and chip the bark on a slab conveyed over the frame by the conveyor

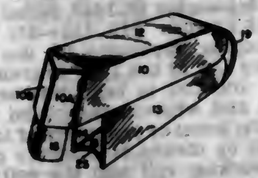
chains, the inner ends of the arms being free to swing away from the collars after contacting the slab.

2,653,636
MAGNETIC SCREW DRIVER
Charles R. Younkin, Jackson, Mich.
Application December 30, 1949, Serial No. 136,975
1 Claim. (Cl. 145—50)



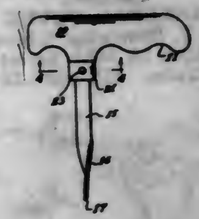
A magnetic screw driver comprising a socket to receive a slotted screw head, a bit for the rotation of the head in the form of a round rod extending across said socket normal to the longitudinal axis of said socket in bridging relationship therewith, said rod being of a diameter to be received in the slotted head of the screw, means for anchoring opposite ends of said bit in the wall of said socket, a permanent magnet located in said socket and contiguous to the side of said bit opposite the side engaged by the screw whereby said magnet acts as an abutment for the screw to limit the depth to which said bit may enter the slotted end of the screw to a distance approximating the diameter of said rod whereby said bit tends to be cammed out of the slot of said screw upon experiencing substantial resistance to rotation by the screw.

2,653,637
AUXILIARY SLIP-ON HANDLE FOR SCREW DRIVERS AND SIMILAR TOOLS
Arthur A. Rea, Portland, Oreg.
Application August 6, 1951, Serial No. 240,467
3 Claims. (Cl. 145—61)



1. An auxiliary handle adapted to be slipped on over the regular handle of a screw driver or similar tool, said auxiliary handle comprising a top section having top, side and front walls forming a hood-like cap adapted to be placed over the top of said regular handle, said side and top walls being elongated and so arranged as to cause said top section also to extend laterally from said top of said regular handle when said auxiliary handle is in place, and a co-operating bottom section movable up and down within said laterally extended portion of said top section, said bottom section having side walls positioned to slide on the inside faces of said side walls of said upper section respectively and a bottom wall, said top and bottom sections hinged together at their outer ends, the length of said bottom section being less than the length of said top section, and the inner end of said bottom section adapted to bear against the adjacent side of said regular handle when said hood-like cap of said top section is in position on said regular handle and said bottom section is pressed upwardly into said top section.

2,653,638
NUT OPENER
Alfred N. Nelson, Flushing, N. Y.
Application February 13, 1951, Serial No. 210,693
1 Claim. (Cl. 146—13)



In a walnut opener, a handle and a flat elongated blade fixedly mounted in the handle with the axis of the blade being at right angles to the handle, said blade having a lower elongated end twisted substantially ninety degrees along the axis of the blade, said elongated twisted end being tapered and terminating in a sharp concaved tip, the twist of the blade being spaced from the tip of the blade a distance substantially less than the diameter of the walnut to be opened, whereby when the tip is thrust between the walnut sections and pressure applied against said handle the walnut sections will be severed, and upon the walnut sections being severed the concaved tip will serve to scoop out the meat contents of the walnut sections.

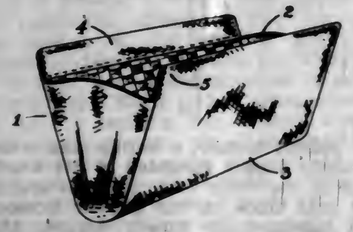
2,653,639
METHOD OF MANUFACTURING LINED BASKETS
Robert H. De Haven, Little Rock, Ark., assignor to Little Rock Basket Company, Little Rock, Ark.
Application March 7, 1952, Serial No. 275,285
6 Claims. (Cl. 147—47)



1. The method of making a basket having a preformed top interior hoop and a top exterior hoop and a second hoop around the basket sidewall and spaced below said top hoops, and a top protective flap, which comprises [illegible] a piece of flexible sheet material at least [illegible]

as the top interior circumference of the basket and no wider than the sum of the width of the top interior hoop and twice the distance between the top interior hoop and said second hoop, folding the sheet lengthwise to provide a free edge at least as wide as the top inner hoop and a doubled thickness adjacent thereto, the combined width of the free edge and the doubled thickness being no greater than the interior basket wall distance from the top of the top interior hoop to the second hoop, providing a preformed interior top hoop for the basket, stapling the folded sheet around outside said interior top hoop by the free edge with the fold to the outside and clear of the preformed hoop, forming the wall of the basket so as to overlie the free edge and the fold, forming the top exterior hoop and second hoop on the exterior wall, and stapling the parts in place through said top hoops and said second hoop.

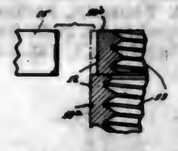
2,653,640
HANDBAG COVER
Virginia E. Browning, Chicago, Ill.
Application April 28, 1950, Serial No. 158,691
1 Claim. (Cl. 150—28)



A handbag comprising a rigid frame having a pair of arms at each end, the arms of each pair being pivotally connected at their lower ends, and having fin shaped cross members connecting the free ends of the two said pairs of arms, a flexible U-shaped body portion of material having a pocket at each upper end of said body portion, said pockets being closed along the top and side edges of the said body portion and open at the bottom allowing the said pockets to fit over the said fin shaped cross members, and having a gusset at each end of said body portion extending from the bottom of the said body portion upward to the lower edges of the said pockets, and a detachable U-shaped cover of flexible material comprising longitudinal side walls and a connecting gusset at each end, the upper edge of each side wall being folded over to form a pocket at the upper edges of said cover, said pockets being closed along the top and side edges of said cover and open at the bottom, the gusset at each end of said cover extending from the bottom of said cover upwardly to the lower edges of said pockets, the edges of said gussets being secured to the end edges of said side walls, and said pockets and said gussets being free from said side walls other than at their edges, allowing the said cover to be fully reversible and allowing the said pockets to fit over the said fin shaped cross members regardless of whether the said cover is placed in its normal or reversed condition.

2,653,641
STOP NUT
Fred Wellman, Indianapolis, Ind.
Application April 25, 1951, Serial No. 222,889
4 Claims. (Cl. 151—31)

1. A stop-nut having a tubular body upset axially to produce an outwardly extending fold which forms a pair of integral reinforcing flanges abutting each other and dividing the nut body into aligned seating and locking sections, said sections being internally screw-threaded, the flange of the locking section being cut away on opposite sides to expose the abutment between the



flanges, the material of the locking section, for a limited circumferential extent, adjacent the mid-points of said cut-away sides, being displaced inwardly while leaving the remaining reinforced portions of the locking section within and contiguous to the flange substantially in their original circular condition.

2,653,642
TRACTION DEVICE FOR VEHICLES
Richard T. Cella, West Windsor, N. J.
Application October 14, 1952, Serial No. 314,596
9 Claims. (Cl. 152—213)

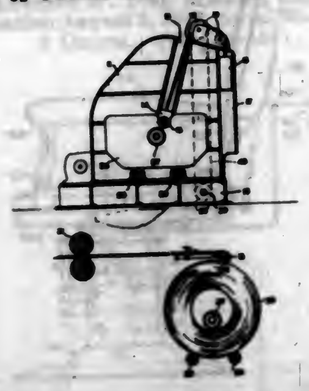


1. A traction assembly for vehicle wheels, including in combination, a plurality of traction cleats connected together in spaced relation, a tong pivotally connected to each end of each cleat and in operative position adapted to clamp against the rim of the vehicle wheel to maintain the assembly in operative position on the wheel, mechanism for releasably locking said tongs in operative rim clamping position, means at each cleat for releasing said mechanism for swinging of said tongs to inoperative position and a cable fixedly attached to each means for operation of the means to release said tongs for swinging to inoperative position upon pulling the cable.

2,653,643
APPARATUS FOR UNCOILING SHEET METAL
Harvey D. Miller, Youngstown, and John C. Holdgate, Cortland, Ohio, assignors to The McKay Machine Company, Youngstown, Ohio, a corporation of Ohio
Application September 19, 1951, Serial No. 247,282
16 Claims. (Cl. 153—54)

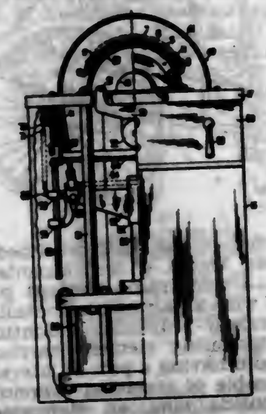
15. In uncoiling apparatus for use with stock pulling means and of the type wherein strip material being uncoiled is bent reversely about a working roll and wherein the coiled material is confined at the point of departure of the material from the coil by means of pressure contact between said working roll and the coil; the combination of means to rotatably support a coil, a pair of pinch rolls, carrier blocks rotatably journaling said pinch rolls in parallel relation to the axis of said coil, mounting means for said carrier blocks adapted to permit rotational movement of said blocks about an axis parallel to said pinch rolls and to permit movement of said last mentioned axis toward and away from said coil substantially along a path radiating from the axis of said coil at an angle inclined away from said

stock pulling means, and means to rotate said carrier blocks whereby one of said rolls may be moved from a position above the other of said rolls to a position below the other of said rolls, the arrangement being such that strip material may be threaded between said pinch rolls in the direction of inclination of said path and said



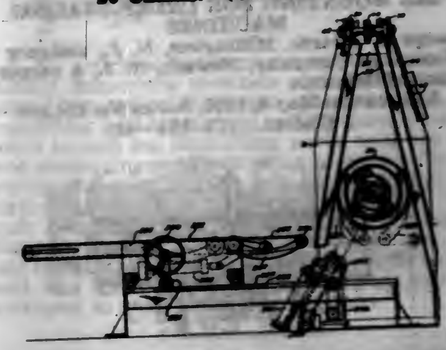
carrier blocks may be rotated to wrap said strip about the lower of said rolls in a reverse bend, whereby upon said strip being thereafter pulled by said stock pulling means outward of said rolls said strip will exert a force on said lower roll, a component of which force will be directed generally along said path whereby said last mentioned roll is urged into pressure contact with said coil.

2,653,644
APPARATUS FOR BONDING LININGS TO BRAKE SHOES
Horace William Overman and Charles G. Weigamott, Columbus, Ohio, assignors, by mesne assignments, to Bigelow, Inc., a corporation of Ohio
Application June 14, 1949, Serial No. 98,968
8 Claims. (Cl. 154—1)



1. A machine for lining a brake shoe, comprising in combination, an arcuately shaped platen element adapted to receive, on its outer periphery, an arcuately shaped brake shoe carrying a liner to be attached to the shoe; mechanism for applying pressure between the liner, shoe and peripheral surface of the platen, including a pair of arcuately arranged flexible strap elements axially spaced from one another and having radii normally longer than the radius of the arc of the platen element, the inner surfaces of the strap elements confronting the outer surface of the platen element, and means for causing relative movement to be imparted between the strap elements and platen element including a single-tree connecting adjacent ends of the strap elements.

2,653,645
TIRE BUILDING MACHINE
Larry C. Frazier, Niles, Mich., assignor to National-Standard Company, Niles, Mich., a corporation of Michigan
Application July 20, 1951, Serial No. 237,709
20 Claims. (Cl. 154—9)



1. An expansible building drum for a tire building machine comprising, a plurality of longitudinal staves forming the outer periphery of the drum, an expansible tube located interiorly of the drum, said staves surrounding the tube and movable radially outwardly by the expansion of the tube, and means to urge the staves inwardly against the outer surface of the tube.

2,653,646
CRIMPING APPARATUS
George A. Swartz, Millington, N. J., assignor to Ivers-Lee Company, Newark, N. J., a corporation of Delaware
Application May 1, 1951, Serial No. 223,921
9 Claims. (Cl. 154—42)



1. A machine comprising relatively movable dies having faces to receive between them material to be pressed, and mechanism for [illegible] said dies including primary means [illegible] means first to relatively move said

close proximity to each other under light pressure and then continue said movement under relatively high pressure respectively, said primary means including a toggle linkage and means for actuating said toggle linkage into and locking it in straight condition to relatively move said jaws into close proximity to each other, and said secondary means including a device for storing energy during said movement of the dies by said primary means and applying said energy to the straightened toggle linkage to move same longitudinally and continue said movement of the dies.

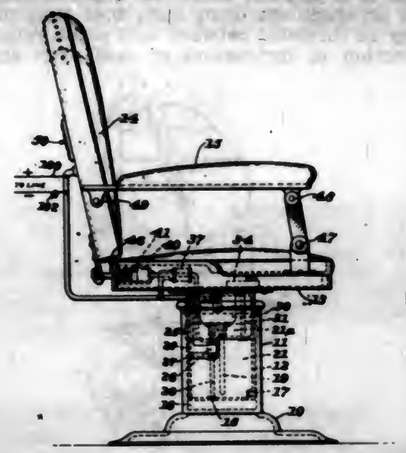
2,653,647
DIE MOUNTING FOR CRIMP-SEALING MACHINES
George A. Swartz, Millington, N. J., assignor to Ivers-Lee Company, Newark, N. J., a corporation of Delaware
Application May 4, 1951, Serial No. 224,596
6 Claims. (Cl. 154—42)



1. The combination of two dies having faces to crimp sheet material between them, means for actuating at least one of said dies toward the other to move said faces into material-crimping relation to each other, at least one of said dies including a main portion and a secondary portion carrying one of said faces, one of said main and secondary portions having a convex segmentally spherical surface in contact with a concave segmentally spherical surface of the same diameter on the other portion, said surfaces having a common center which lies in the plane of the face of said one die to provide for tilting of said one die to automatically adjust the face thereof to the face of the other die as said faces move into material crimping relation.

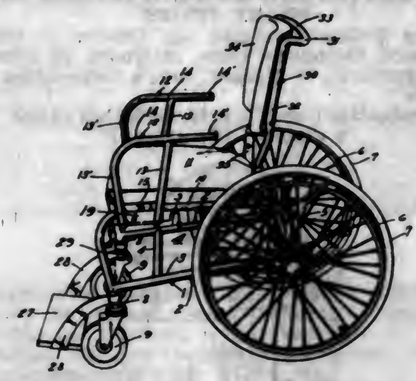
2,653,648
ELECTRIC-HYDRAULIC BEAUTY CHAIR
Richard Paul Marshall, Columbia, Ky.
Application July 20, 1950, Serial No. 174,859
6 Claims. (Cl. 155—25)

2. In an electrically controlled hydraulic lift device adapted for use in a chair, a cylinder, said cylinder having an annular recess around the circumference of its inner wall and positioned in the upper end thereof, a hollow piston for reciprocation therein, a fluid tight partition dividing the interior of said hollow piston into an upper and a lower chamber, said lower chamber comprising a storage area for hydraulic fluid, a unitary reversible motor hydraulic pump unit in said upper chamber to receive hydraulic fluid from said lower chamber and deliver said fluid under pressure at the base of said piston to effect raising of said piston, an electrically controlled solenoid valve associated with said hydraulic pump unit, electrical switch means for controlling the direction of rotation of said reversible hydraulic pump unit and said solenoid valve simultaneously and means operatively connecting the area below the base of said hollow piston and the lower chamber when said hollow piston has raised in said cylinder to a predetermined height whereby hydraulic fluid under the base of said piston is returned to said lower chamber, said means including a spring actuated check valve



mounted in the vertical wall of the said lower chamber of said piston adjacent the lower end thereof to engage the annular recess in the wall of said cylinder and open.

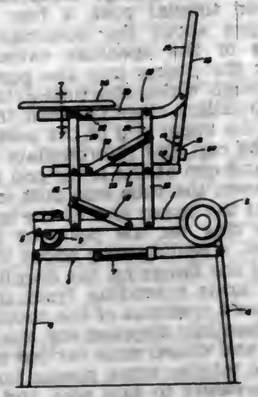
2,653,649
WHEEL CHAIR WITH DETACHABLE ARMREST
William A. Linquist, Minneapolis, Minn.
Application February 11, 1950, Serial No. 143,616
2 Claims. (Cl. 155—30)



1. In a device of the class described, a wheel-mounted main frame, a seat mounted on said main frame, a side frame element provided at its lower end with a pair of horizontally-disposed laterally inwardly-projecting mounting pins, a side frame mounting element carried by said main frame and having a pair of laterally-spaced apertures capable of receiving therein one each of said mounting pins, an elongated bearing element on said mounting element and aligned with the rearward of said apertures and pivotally receiving therein the rearward of said mounting pins, the forward of said mounting pins being provided intermediate its ends with a circumferentially-extended radially outwardly-opening channel of a width to snugly receive therein a portion of said side frame-mounting element upon pivotal movements of the rearward of said mounting pins in said bearing, reception of said

mounting element in said channel limiting horizontal movement of said mounting pins and said side frame member with respect to said main frame.

2,653,650
CONVERTIBLE HIGH-LOW BABY CHAIR
Leonard W. Yost, Atwater, Calif.
Application August 2, 1949, Serial No. 108,089
2 Claims. (Cl. 155—38)



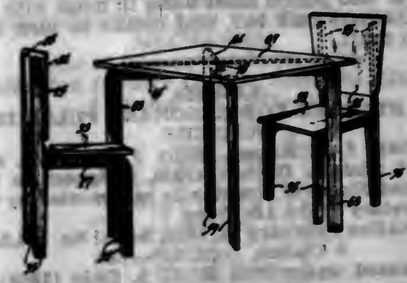
1. A combination baby chair comprising a base frame having a chair supported thereby, the frame including longitudinal side members, wheels mounted on the frame for ground engagement, and a pair of legs pivoted on each side member at the ends of the latter for movement between a depending position and a folded position alongside the member, one leg of each pair being of substantially circular form in section and the other leg of each pair being substantially semi-circular in section and facing in a direction and of a size to receive said one leg therein when the legs are in said folded position.

2,653,651
FURNITURE CONSTRUCTION
Albert W. Nemmer, Cheektowaga, N. Y.
Application February 24, 1950, Serial No. 146,113
12 Claims. (Cl. 155—179)



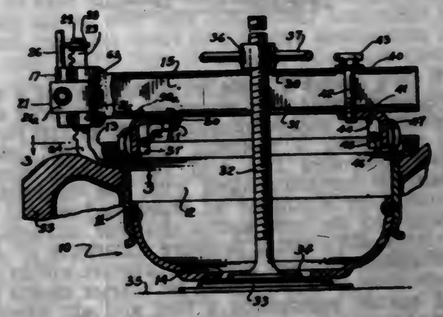
3. In an upholstered chair, a base unit comprising a generally rectangular metal frame, a wire attached at spaced intervals to the top of said frame and presenting a plurality of upstanding loops, a spring pan mounted within said frame, a plurality of coiled springs carried by said spring pan, a covering for said springs attached to said loops, a cushion supported by said covered springs, and a second covering over said cushion and at least a portion of said frame, said frame being adapted to support a back unit.

2,653,652
COLLAPSIBLE TABLE AND CHAIR
Alfred E. F. de Martini, Haddon Heights, N. J.
Application December 13, 1948, Serial No. 64,939
6 Claims. (Cl. 155—194)



6. An article of furniture comprising a pair of unitary supporting members each having (1) a pair of legs spaced from each other and (2) a top supporting part connecting said legs, and a top secured to said top supporting parts, said top and said supporting members being separable for assembly of said supporting members in a relatively reversed, interfitting, embracing relation with each other and with said top all in a common plane for packing, and said top being of such size and contour as to fill the space between certain of said legs when said members and said top are arranged in said interfitting relation.

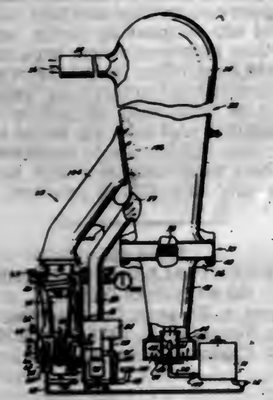
2,653,653
CIRCUMFERENTIALLY ADJUSTABLE TIRE REMOVING DEVICE
Raymond A. Weaver, Los Angeles, Calif.
Application November 1, 1951, Serial No. 254,248
7 Claims. (Cl. 157—1.24)



1. A tire removing device of the kind described comprising a bridge member, means for mounting said bridge upon the rim of an automobile wheel in a rotationally adjustable manner and in a position wherein it diametrically spans said rim in all adjusted positions, a cylindrical housing carried by an end portion of said bridge member, when said member is in mounted position the axis of said housing extending parallel to the axis of the wheel upon which said bridge member is mounted and said housing being then located in an outwardly adjacent and upwardly offset relation to said wheel rim, a stub shaft turnably fitted within said housing, said housing having through its side an opening and said stub shaft having a lateral projection extending through said opening, thus limiting to less than a complete rotation the turning of said stub shaft, said stub shaft having through it a longitudinal passage polygonal in cross section, a rack bar slidably fitted

within said passage, said rack bar having at its lower end a laterally directed presser foot engageable with the tire carried by the automobile wheel, a gear toothed pinion shaft rotatably mounted in said projection of said stub shaft, the teeth of said pinion shaft being in mesh with the teeth of said rack bar, and means to turn said pinion shaft.

2,653,654
GAS STARTER FOR RESONANT PULSE JET BURNERS
Wunibald I. E. Kamm, Willy F. Krautter, and Kurt Staiger, Dayton, Ohio, assignors to the United States of America as represented by the Secretary of the Air Force
Application February 16, 1950, Serial No. 144,556
8 Claims. (Cl. 158—28)
(Granted under Title 35, U. S. Code (1952), sec. 266)



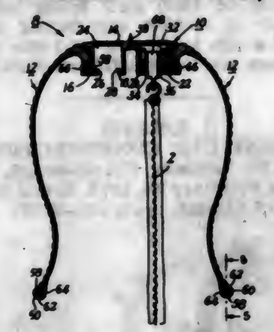
1. In a resonant pulse jet burner having a wall forming a combustion chamber, a discharge pipe leading from said combustion chamber and forming therewith a resonant passage, and check valve controlled fuel and air mixture supply means in communication with the combustion chamber for supplying an explosive fuel and air mixture to the combustion chamber incident to a higher differential pressure exteriorly of the combustion chamber than the pressure within the combustion chamber; pulse jet starter means for said burner comprising a fuel and air mixture supply tube in communication with the combustion chamber; fuel heating and vaporizing pressure supply means in communication with the fuel and air mixture supply tube, having means for injecting heated vaporized fuel and air through said fuel and air mixture supply tube into said combustion chamber to form a heated explosive mixture within the combustion chamber, including normally closed manually openable valve means in the injection means for controlling said vaporized heated fuel injection; and common heating means for simultaneously heating said fuel heating and vaporizing pressure supply means for heating and vaporizing fuel therein and heating a spot on the combustion chamber wall for effecting ignition of the heated fuel and air mixture injected into the combustive chamber through said fuel and air mixture supply tube to start the resonant pulse jet burner, and means for supplying fuel to the common heating means.

2,653,655
WHIRLING FLAME SPINNER
Leonard M. Salmon, McAllen, Tex.
Application January 9, 1952, Serial No. 265,697
1 Claim. (Cl. 158—99)



A whirling flame spinner comprising a vertically disposed tubular post, a four way fitting having flanges about the openings therein, a tube in one of the openings extended downwardly from the fitting into the post, a cap on the post through which the tube extends, a plurality of journalling rings between the tube and post, one at the upper end of the post in engagement with the cap, one intermediate of the ends of the tube and one at the lower end of the tube, packing between the tube and post intermediate of the ring at the upper end of the post and the intermediate ring on the post for sealing the tube and post, a sealing ring about the tube intermediate of the flange on the coupling and the cap, tubular arms extending from the two oppositely disposed openings of the coupling, a plurality of horizontally disposed cup shaped nozzles having open and closed ends carried by the ends of each of the tubular arms, means for supplying fluid under pressure to said post and short sections of tubing between the closed ends of the nozzles and the arms.

2,653,656
CORNICE AND SUPPORT FOR CURTAINS AND THE LIKE
James F. Knobler, Tiffin, Ohio
Application March 5, 1952, Serial No. 274,996
5 Claims. (Cl. 160—19)

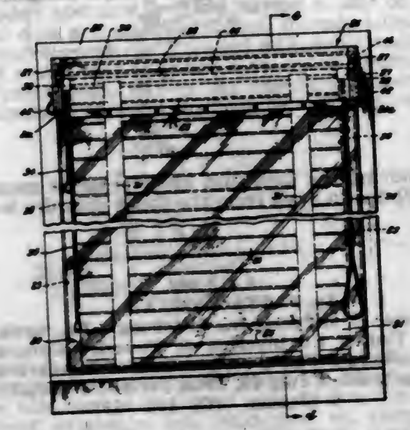


1. In a track and cornice assembly of the character described, the combination of, a track assembly comprising means forming a track for a carrier and interlocking means comprising flange means with a downwardly disposed flange and means presenting a supporting surface beneath said flange, and a cornice unit comprising a main portion which extends downwardly and an interlocking portion which has flange means adapted to mate with the first-mentioned flange means and means presenting a surface adapted to mate with said supporting surface.

2,653,657
VENETIAN BLIND COVER
Marion E. Skwark, Binghamton, N. Y.
Application July 24, 1950, Serial No. 175,510
3 Claims. (Cl. 160—84)
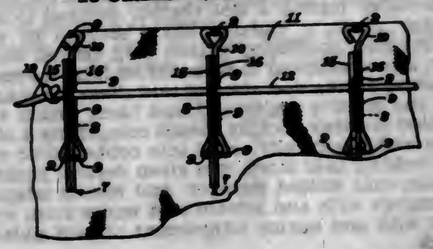
1. A cover for a Venetian blind of the type having a casing member to encase and support

the elements of the head of said blind and to mount said blind to a window frame, said cover including a back portion, a front portion, a bottom portion and two side portions, all of transparent material arranged in an open-ended box-like structure open at the top thereof, to partially enclose said blind, a flap forming an extension of the said back portion to overlie the said blind head, said side portions having pockets



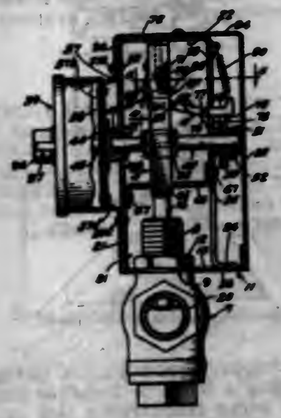
at the ends thereof to receive rigid guide members to supply added rigidity to said cover to prevent said cover from interfering with the operation of said blind, means to attach said flap to the said front portion to form a closed box-like structure when so attached to completely enclose said blind, said flap forming apertures when so attached for the passage therethrough of the controlling cords of said blind, and means to mount said cover to said casing.

2,653,658
DRAPERY HOOK PROTECTIVE POCKET
Joseph Wieserek, Rockford, Ill., assignor of one-sixth to Dayton L. Johnson, one-sixth to Elmer J. Johnson, and one-sixth to Terrence E. Johnson, all of Rockford, Ill.
Application May 22, 1951, Serial No. 227,718
13 Claims. (Cl. 160—330)



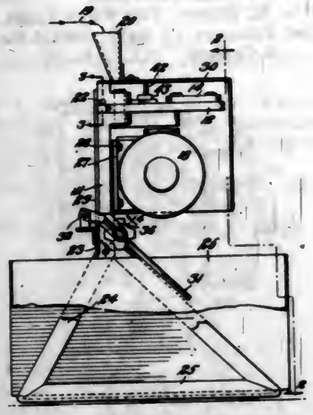
1. In combination with a drapery having secured thereto a plurality of laterally spaced, substantially parallel, vertically disposed drapery hooks each comprising an attaching portion secured to the drapery and having a projecting hook portion projecting inwardly from the top hem portion thereof, of a plurality of hook enclosing protective pockets, one for enclosure of the projecting hook portion of each of said drapery hooks, a pocket retaining member that is elongated and extends lengthwise of the top hem portion of the drapery and through all of the pockets and the bails of the hook portions of the hooks disposed therein and releasable means holding said pocket retaining member against endwise displacement thereof to prevent withdrawal thereof from said pockets.

2,653,659
TIME CONTROLLED VALVE CLOSING MECHANISM
Abe M. Bloom, Van Nuys, Calif.
Application January 17, 1952, Serial No. 266,570
8 Claims. (Cl. 161—7)



1. In a device of the kind described, a mounting means, an elongated vertically reciprocable member mounted upon said mounting means and connected with a valve to control the operation of the latter, said valve being spring loaded in a manner yieldingly to hold it in the closed position, an operating shaft rockably mounted upon said support in an adjacent right anguiar relation to said member, said operating shaft being axially alined with and operatively connected to a knob operable shaft of a timing mechanism so that said shafts turn in unison, said knob operable shaft being manually turnable to pre-set the time required for said timing mechanism to rotate said shafts back to their normal position after a pre-setting operation, means carried by said operating shaft and operatively juxtaposed to said reciprocable member whereby initially to depress the latter and open the aforesaid valve, two interlocking latching units acting between said reciprocable member and operating shaft to latch said reciprocable member in the depressed position until the time pre-set for the running of said timing mechanism runs out, one of said latching units being swingably carried by the aforesaid mounting means and comprising an arm extending radially from the axis of its swing, and the other of said units being carried by said reciprocable member and comprising a spring pressed retractable bolt, said bolt having a cam face normally projecting laterally from said reciprocable member over which a portion of said swingable unit glides when said reciprocable member is depressed by the aforesaid pre-setting operation, a disk concentrically secured to said operating shaft and provided with a radial slot which leads into the disk from its periphery, said radial arm of one of said latching units riding upon the periphery of said disk until the run out time positions said slot for being occupied by said arm thereby to free said swingable latching unit to swing from an overlying relation to the projecting portion of said bolt to a position wherein it frees the latter so that the valve spring closes the valve and restores said reciprocable member to its normal position.

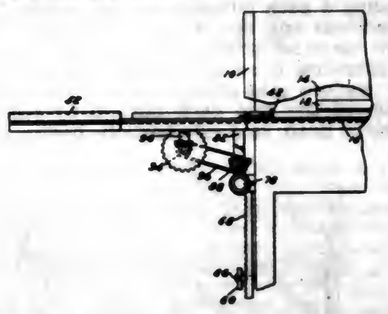
2,653,660
PORTABLE SCRAP CHOPPER
Frederick Koch, Sparta, N. J., assignor to C. Todd, Rutherford, N. J., as trustee
Application February 9, 1951, Serial No. 210,168
1 Claim. (Cl. 164—10.6)



A scrap chopper comprising a portable floor stand providing a base for locating the chopper at the stock scrap discharging side of a punch press or other machine operating on strip stock, a base plate pivoted on a horizontal axis at the side of the stand toward the machine, a motor driven scrap cutter mounted on said base plate adjoining the center of pivotal support, said base plate being freely adjustable about said center to locate said scrap cutter in different angular relations in respect to scrap issuing from the machine, means for securing said base plate in selected positions of angular adjustment, a protective cover over said scrap cutter hinged on an axis approximating the pivotal axis of the base plate for adjustment in the same angular relation as the pivotally supported base plate, a scrap guide on the cover over said cutter, said cover being angularly adjustable about its hinge independently of the pivotal mounting of the base plate whereby to shift the scrap guide into different angular relations independently of the angular adjustment of the base plate and switch means for controlling the motor driven cutter and positioned to be actuated by said cover in the lowering movement of the same over the base plate.

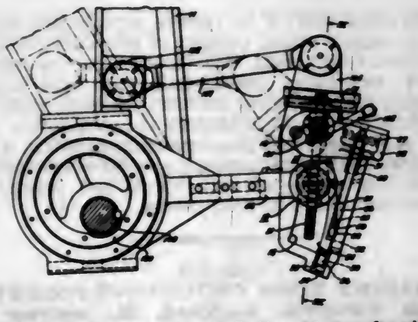
2,653,661
PUSHER ATTACHMENT FOR PRESSES
Earl A. Burns, New Baltimore, Mich., assignor to Woodall Industries Inc., Detroit, Mich., a corporation of Michigan
Application June 18, 1951, Serial No. 232,140
5 Claims. (Cl. 164—48)

1. In a press provided with upper and lower cooperating pressure members, said lower pressure member being supported for movement toward and away from the upper pressure member, said lower pressure member provided with an extension adapted to support a sheet of material, pusher structure supported for travel over the extension to advance a sheet of material therefrom on to the lower pressure member, power means coupled with the lower pressure member to reciprocate it, driving mechanism connecting the pusher structure with the power means to actuate the pusher to move a sheet of material from the extension onto the lower pressure mem-



ber during the time said lower pressure member is withdrawn away from the upper pressure member.

2,653,662
FLYING SHEAR
Florence C. Biggert, Jr., Pittsburgh, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application July 25, 1949, Serial No. 106,525
2 Claims. (Cl. 164—49)

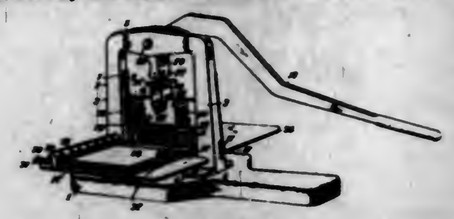


1. In a reciprocating flying shear having a drive shaft therefor, a stroke adjusting device associated with and for varying the magnitude of the stroke of said shear comprising a rocker shaft, an eccentric mounted on said drive shaft, a member having a slot therein secured to said rocker shaft, a slidable block secured to said frame and positioned within said slotted member, means adapted to be adjusted from a remote position during operation of said shear for changing the relative position of said block within said slotted member, locking means comprising a slidable wedge normally urged into contact with and for holding said block in a given desired position within said slotted member, and means adapted to engage with and release said wedge from contact with and during adjustment of said slidable block.

2,653,663
SWATCH CUTTING MACHINE
Richard C. Maxant, Ayer, Mass.
Application March 3, 1950, Serial No. 147,427
3 Claims. (Cl. 164—57)

1. A swatch cutting machine comprising a frame having a pair of spaced substantially parallel uprights connected at their respective upper ends to the opposite ends of a crossbar having a vertically extending slot formed therein intermediate its ends, each of said uprights having a

guideway formed therein and in opposition to each other, a cutter head having an upper side and a pair of opposed ends each of which is slidably mounted in one of said guideways, respectively, for reciprocation therein, an inverted substantially U-shaped yoke having the arms thereof pivotally connected to said upper side of said cutter head midway between said ends thereof, said U-shaped yoke having an internally threaded aperture, a screw having a pair of opposed ends and having external threads adjacent one end thereof for threaded adjustable engagement within said aperture, a second substantially U-shaped yoke having an aperture extending transversely through the base thereof, means se-



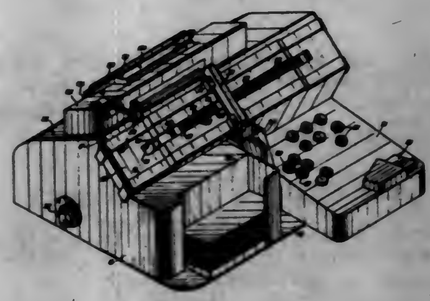
curing the other end of said screw within said last aperture for rotation about its longitudinal axis, said second U-shaped yoke having the arms thereof extending into said slot, an elongated lever pivotally mounted adjacent one of its ends within said slot approximately midway between said uprights, said lever comprising a long arm and a short arm extending generally at right angles from said pivot, means pivotally connecting said arms of said second U-shaped yoke to opposite sides of the short arm of said lever, and means mounted on said screw for turning said screw to adjusted position whereby when the lever is operated to move said cutter head into its lowermost position, said pivotal connections of said first and second yokes and the short arm of said lever move into substantial alignment.

2,653,664
METHOD OF AND MEANS FOR FORMING AN ELONGATED OPENING IN A PIPE OR THE LIKE
John W. Delby, Chicago, Ill., assignor to Configured Tube Products Company, Chicago, Ill., a corporation of Illinois
Application June 27, 1951, Serial No. 233,898
2 Claims. (Cl. 164—106)



1. A punch-and-die apparatus adapted to punch a rectangular aperture in a curved metal surface such as a pipe, the aperture to be formed with clean side edges substantially parallel to the axis of curvature and end edges substantially perpendicular thereto and formed by inwardly bent tabs, comprising the combination of a die defining a channel adapted to receive the metal surface snugly and to support the wall thereof and defining also a punch-receiving opening corresponding in shape to that of the desired aperture, and a punch adapted to be received in operative position in the punch-receiving opening, said punch having an initial cutting edge contained in a single plane substantially perpendicular to the axis of curvature of the metal surface and being curved on a radius of curvature substantially greater than the radius of curvature of the metal surface being punched, and having also secondary cutting edges extending away along the side walls of said punch in planes substantially parallel to the axis of curvature, the cutting face of said punch being undercut between said secondary cutting edges to provide a concave surface therebetween.

2,653,665
STATISTICAL CARD PUNCH AND VERIFIER
Clifford C. Leatherman, Flushing, N. Y., and William Weckenfuss, Union, N. J., assignors, by mesne assignments, to Burroughs Adding Machine Company, a corporation of Michigan
Application January 31, 1950, Serial No. 141,428
11 Claims. (Cl. 164—117)

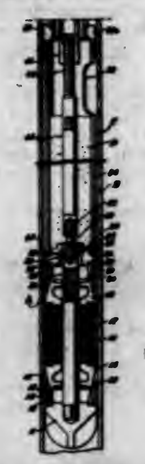


7. In a combined punch and verifier, a carriage for moving a record card column by column to punching or verifying position, a carriage escapement and a control member therefor, a skip key, means responsive to a single operation of said key to operate said control member to release said escapement for a time sufficient for the carriage to uninterruptedly move a plurality of card columns past said punching or verifying position, means to retain said control member operative while the carriage is moving, means other than said responsive means to which operation of said control member is transferred from said retaining means, and means to render said other means effective after said carriage has been so moved.

2,653,666
DUMP BAILER AND BRIDGE PLUG
Reuben C. Baker, Coalinga, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California
Application March 21, 1949, Serial No. 82,499
5 Claims. (Cl. 166—13)

1. In apparatus of the character described: a cylinder adapted to be lowered in a well bore on a wire line; a piston in said cylinder; means for developing a fluid force in said cylinder for operation upon said piston and cylinder; a container for cementitious material operatively connected to said piston and having an outlet; a plug body coaxial with said container; an abutment slidable along said body and engaging said outlet to close said outlet in conjunction with said body; normally retracted expansible means around said body engageable and actuatable by said abut-

ment; and means including releasable instrumentalities operatively connecting said cylinder to said body, said instrumentalities when released



freeing said cylinder from said body, whereby upward movement of said cylinder elevates said container outlet from said abutment to open said outlet.

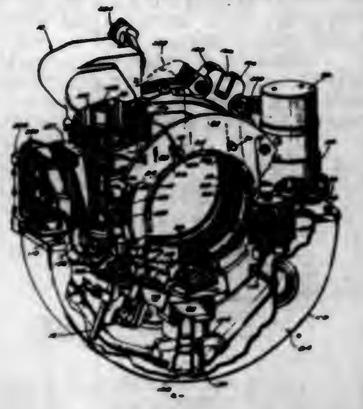
2,653,667
TRIGGER FIRE EXTINGUISHING APPARATUS
Henri Génin and Henri Debray, Laval, France
Application July 6, 1950, Serial No. 172,296
In France July 9, 1949
4 Claims. (Cl. 169—31)



1. In a fire extinguishing apparatus including a tube having an opening at its front end, a glass ampoule containing a volatile fire extinguishing liquid and housed inside said tube, a nozzle-like breakable tubular projection provided on said ampoule pointing at said opening and adapted to be broken to give passage to said liquid, an horizontal spindle provided under said tube, a lever carried by said spindle and adapted to swing around said spindle axis, a block having a notch at its front end carried by said lever and adapted to break said tubular projection, an expansion spring urging said lever towards said projection, a finger adapted to engage said notch for securing said block and said lever against rotation and a detent mechanism fixed with said tube to control said finger.

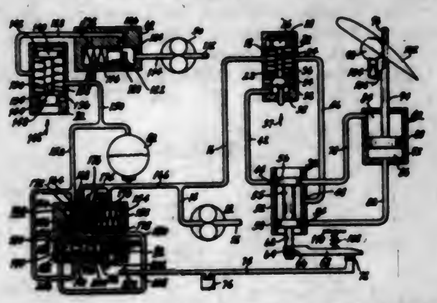
2,653,668
HUB MOUNTED CONTROL
John E. Anderson, Portland, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application March 30, 1949, Serial No. 84,205
18 Claims. (Cl. 170—160.2)

1. A propeller comprising a hub, blades mounted in said hub for pitch changing movement, hydraulic pitch changing mechanism operatively connected with said blades and carried by said hub, control mechanism for said pitch changing mechanism comprising a housing rotatably mounted on said hub, and means for restraining said housing against rotation with said hub, said housing including an oil reservoir, a speed governor and pumps and means for actuating said governor and pumps incident to relative rotation



of said housing and hub, an auxiliary motor and pump supported by said stationary housing for supplying oil from said reservoir to said hub when the propeller is not rotating, means restraining said housing against axial movement relative to said hub, the rotatable mounting of said housing on said hub including a plurality of fluid passages connecting said governor valve with said pitch changing mechanism.

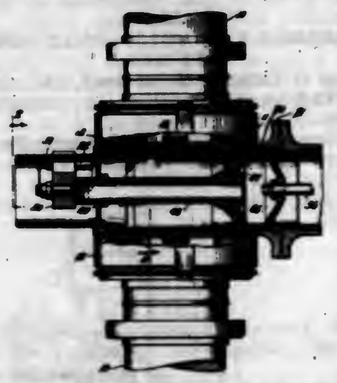
2,653,669
ACCUMULATOR FEATHERING SYSTEM FOR VARIABLE PITCH PROPELLER CONTROL
Richard E. Moore, Dayton, Edward W. Lape, Piqua, and Oren F. Flaugh, West Milton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 8, 1947, Serial No. 784,788
15 Claims. (Cl. 170—160.21)



1. A fluid pressure system for control of propeller pitch, comprising a double acting fluid servomotor for adjusting the propeller blades in governed pitch and feathering, a system pump providing a source of fluid pressure, a governor valve responding to domination of spring and centrifugal force effecting governed pitch by said servomotor, means for manually adjusting the valve establishing any one of a plurality of equilibrium conditions for said spring and centrifugal forces and for upsetting such equilibrium during feathering, a variable pressure control valve for the system controlling the pressure

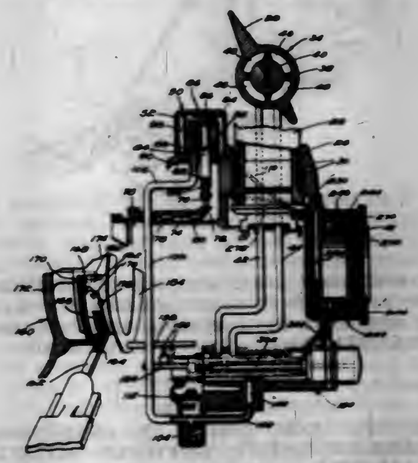
applied to the servomotor as needed for governing, and an independent source of fluid pressure for effecting feathering and unfeathering of said propeller and including a second pump and an accumulator with control means for connecting the accumulator with the system pump upon predetermined movement of the upsetting means, said control means including a flow control valve normally spring-urged to block connection between the accumulator and the system pump, and a pressure reset valve releasable by said equilibrium upsetting means to apply accumulator pressure to the flow valve for connecting the accumulator with the system pump.

2,653,670
CONTROLLABLE PITCH PROPELLER
Alec S. Odevseff, Wichita, Kans., assignor to Beech Aircraft Corporation, Wichita, Kans., a corporation of Delaware
Original application June 2, 1948, Serial No. 30,637, now Patent No. 2,618,348, dated November 18, 1952. Divided and this application September 19, 1951, Serial No. 247,264
1 Claim. (Cl. 170—160.32)



A controllable pitch propeller comprising a hub having an axially disposed drive sleeve extending therethrough from front to back, said drive sleeve having a mounting flange at the back and having a guide at the front end of the same, said drive sleeve having a cylinder forming section within the back portion of the same, a piston operable in said cylinder forming section, means for supplying and exhausting actuating fluid to and from said cylinder section in back of said piston, a piston rod extending forwardly from said piston through said guide at the front end of the sleeve, push rods within the hub at opposite sides of and parallel with said drive sleeve and with the piston rod operating within said drive sleeve, a thrust ring fixed on intermediate portions of said rods surrounding and freely operable longitudinally over said drive sleeve, propeller blades journaled in the hub with their inner ends closely adjoining said thrust ring, pitch changing connections from said thrust ring to the inner ends of said blades, bearings for said push rods supported in the hub at opposite sides of said thrust ring and longitudinally spaced to permit limited longitudinal pitch changing adjustment of said thrust ring, said spaced bearings being parallel with said drive sleeve and with the piston rod operating through said drive sleeve, and transverse operating connections extending from the forward end of the piston rod in the drive sleeve to the forward ends of said push rods at the opposite sides of the drive sleeve and whereby substantially all parts of the pitch changing mechanism are contained within the hub forward of the mounting flange and in generally parallel relationship with the drive sleeve.

2,653,671
PITCH LOCK
Erle Martin, West Hartford, and Thomas B. Rhines, Glastonbury, Conn., assignors to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application November 23, 1949, Serial No. 129,682
6 Claims. (Cl. 170—160.33)

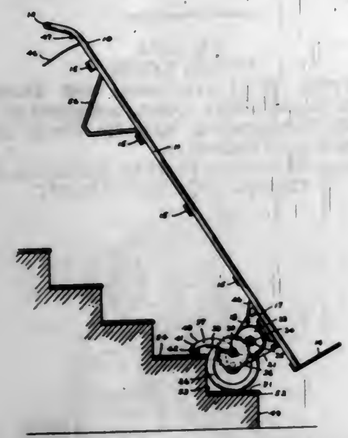


6. In a propeller having a hub, a plurality of blades carried by said hub and mounted for pitch changing movements relative thereto, means for changing the pitch of said blades, a source of power for actuating said pitch changing means, means for controlling said pitch changing means including a valve operatively connected to said source of power and mechanism cooperating with said valve and positioned in accordance with the pitch position of said blades, means for moving said valve relative to said cooperating mechanism within a normal range of pitch changing movements to provide for increase of the pitch of said blades, means for locking said blades against pitch changing movements, means connected to said source of power for holding said locking means in an unlocked position during movement of said valve in said normal range, and means operatively connected to said holding means and responsive to relative movement of said valve and cooperating mechanism beyond said normal range in a pitch increase direction for disabling said holding means.

2,653,672
HAND TRUCK STEP CLIMBING MECHANISM
Sylvester B. Wessic, Speedway City, Ind.
Application October 7, 1949, Serial No. 120,163
3 Claims. (Cl. 180—8)

1. A step climbing hand truck comprising in combination a substantially rectangular frame; a plate fixed to the bottom surface of said frame near its forward end; a pair of inverted U-shaped wheel brackets fixed to opposite lateral ends of said plate; wheels revolubly mounted in each of said wheel brackets, each of said wheels being revoluble about a common axis of rotation; a revoluble shaft journaled in bearings carried by said wheel brackets with its axis parallel to the

axis of said wheels; a pair of spaced apart lifting arms fixed on said shaft; a motor fixed on said plate; driving means between said motor



and said shaft; said motor being designed to rotate said shaft through said means in a direction such that the operating arms will revolve downwardly when to the rear of the shaft.

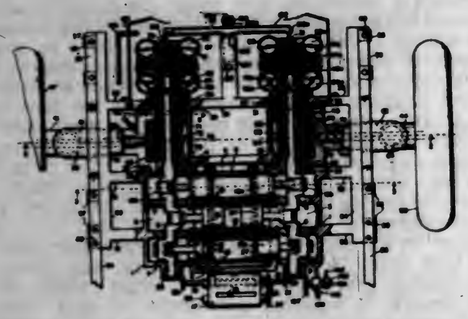
2,653,673

MOTOR AND DRIVE TRANSMISSION ARRANGEMENT BETWEEN AXIALLY ALIGNED VEHICLE DRIVING WHEELS

Adolphe C. Peterson, Edina, Minn.

Application January 11, 1950, Serial No. 137,904

5 Claims. (Cl. 180—58)



1. A power transmission means for automotive vehicles, comprising: a pair of road wheels, a pair of propeller shafts each connected with one of the road wheels for driving it and each rotating in a plane substantially in alignment with each other and transversely of the vehicle, a pair of tubular transmission shafts each placed at right angles to said propeller shafts and spaced apart from each other in a horizontal plane, a pair of driving gears on one of said transmission shafts and a pair of driving gears on the other of said transmission shafts, a positive clutching means for the one pair of driving gears and a positive clutching means for the other pair of driving gears each of said positive clutching means providing for clutching either of its associated pair of driving gears to its associated transmission shaft, means in cooperation with each of said propeller shafts for conveying driving torque from either of said driving gears of one of said pairs of driving gears to the propeller shaft, a pair of engine crank shafts each having an extension primary shaft extended through one of said tubular transmission shafts and in axial alignment therewith, a pair of variable ratio torque transmission means having location at one side of the axes of said propeller shafts one transmitting drive from one extension primary shaft to its associated tubular transmission shaft and the other transmitting drive from the other extension primary shaft to its associated tubular transmission shaft, an engine cylinder means having its cylinders disposed transversely of said crank shafts and having location at the side of said axes of said propeller shafts opposite to said first named side, pairs of engine pistons one pair in each engine cylinder, connecting means between one piston of each said pair and one of said crank shafts and connecting means between the other piston of each said pair and the other of said crank shafts.

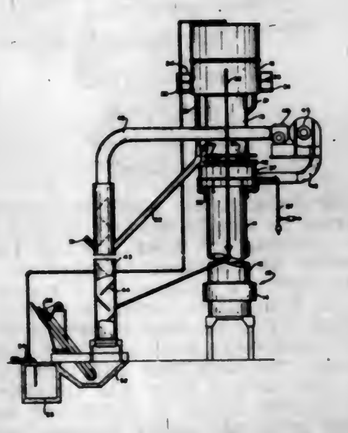
2,653,674

SUPPRESSOR FOR SOLID PARTICLES AND FUMES

Raymond C. Ortgies, Homewood, Ill., assignor to the Whiting Corporation, a corporation of Illinois

Application November 10, 1949, Serial No. 126,638

4 Claims. (Cl. 183—6)



1. A suppressor for cupolas having a stack and a charging door in the stack comprising a cylindrical drum, a ring sealed to the lower edge of the drum and to the stack at a point below the stack mouth, an external air supply conduit communicating with the interior of the stack below the ring and above the charging door, blower for passing air under pressure through said conduit, gas ignition means in the stack between the ring and the charging door, an imperforate baffle in the drum above the mouth of the stack defining an annular passage between the baffle and the drum, said passage having an area at least equal to the cross sectional area of said stack, spray means for projecting a continuous curtain of water droplets across the passage above the baffle at a velocity at least equal to the velocity of solids carried upwardly by the exhaust gases, and a drain in the ring for discharging water and solids from the drum.

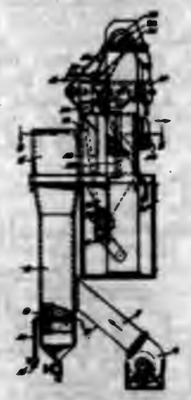
2,653,675

GAS CLEANING APPARATUS

George E. Lynch, Los Angeles, Calif.

Application January 20, 1950, Serial No. 139,686

1 Claim. (Cl. 183—9)



The process of cleaning hot gases containing fine solids in suspension and water in the form of vapor, which consists in first reducing the temperature to slightly above the dewpoint, and then causing said cooled gases to move through a slowly moving body of sized pebbles which are at a temperature slightly below that of said gases, to cause a part of the water vapor carried thereby to be condensed and deposited on the surfaces of said pebbles in the form of a film, whereby it becomes a means of picking up and holding the fine solids and impurities from said gases as said gases are caused to pass through the interstitial spaces in said body of pebbles.

2,653,676

AIR FILTER

Raymond J. Brockheimer, Milwaukee, Wis., assignor to Air Filter Corporation, Milwaukee, Wis., a corporation

Application May 16, 1951, Serial No. 226,594

2 Claims. (Cl. 183—69)



1. An air filtering panel comprising crimped mesh filtering members, each of said members including at least one row of corrugations arranged at an angle to lines normal to the face of the panel and a second row of corrugations having their inner ends out of coincidence with the inner ends of the corrugations of the first row and with the crests of the second row of corrugations lying between the crests of the first row of corrugations.

2,653,677

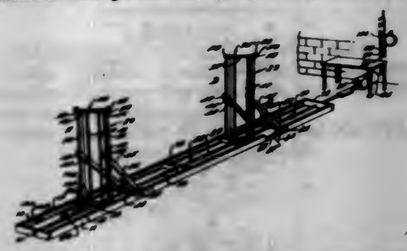
HOISTING APPARATUS

David A. Wallace, Grosse Pointe Farms, Mich., assignor to Waloo, Inc., Detroit, Mich., a corporation of Michigan

Application March 19, 1948, Serial No. 15,837

12 Claims. (Cl. 187—8.75)

1. Hoisting apparatus including a base structure, a pair of hoisting units mounted on said base structure each comprising a boom member and an operating lever pivotally attached at one end to an intermediate portion of each boom member respectively, one of said hoisting units being shiftable longitudinally of said base structure, means coacting with the other end of the lever of said latter hoisting unit for holding said latter hoisting unit against said shifting movement, means mounting each of said boom members on one of said hoisting units respectively for shifting movement between generally horizontal and generally vertical positions, a common driving member for positively propelling each of said



boom members from each of said positions to the other position, and mechanism for releasably effectively coupling each of said boom members independently to said common driving member, said shiftable hoisting unit being movable longitudinally of said base structure without affecting said other unit by operation of said common driving means when said shiftable hoisting unit is coupled with said driving member and said holding means is released and the boom member of the other hoisting unit is uncoupled from said common driving means, and apparatus for selectively operating said common driving member in respectively opposite directions.

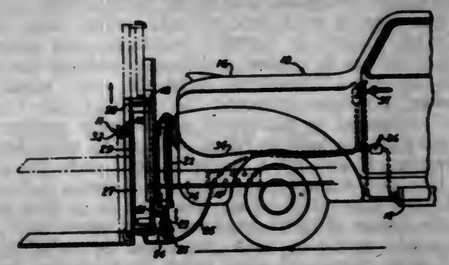
2,653,678

LOADING AND UNLOADING ELEVATOR FOR TRUCKS

Harry Lehrman, Jersey City, N. J.

Application January 19, 1951, Serial No. 206,779

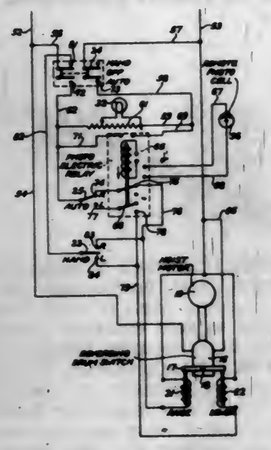
9 Claims. (Cl. 187—9)



9. A loading and unloading elevator device in combination with the tractor unit of a trailer truck, comprising a vertical frame member, engageable with the forward chassis of the tractor unit in a position in which the top of the frame is below the normal field of vision of the driver and the bottom of the frame is above the level of the ground; a rotatable member being fixed through an engagement means at one of its ends to the lower portion of said vertical frame and rotatable through an angle of substantially 90° from a position horizontal to the ground to a position substantially adjacent the vertical frame member; a latching means for supporting said rotatable member in an upright position; said engagement means vertically reciprocating said rotatable member in the frame from the ground to the top of said frame; said rotatable member be-

ing capable of supporting the object to be moved; and a source of power for lowering and raising said rotatable member.

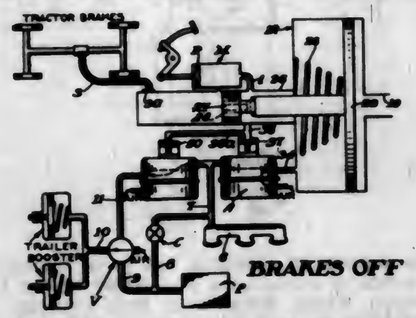
2,653,679
AUTOMATIC LEVELING MECHANISM FOR HOISTING TRUCKS
Arthur S. Hamilton, Jr., Brighton, N. Y.
Application October 23, 1951, Serial No. 252,753
12 Claims. (Cl. 187—9)



12. A lift truck including a load support, a hoist motor operatively connected thereto for raising or lowering the same, and a reversing switch connected to said motor, "raising" and "lowering" solenoids connected to said reversing switch, a control switch movable to either of two positions and operating to actuate one or the other of said solenoids, a photoelectric relay operatively connected to said control switch and held normally in position to actuate the "raising" solenoid, said relay when actuated operating to move the control switch into position to operate the "lowering" solenoid. a selector "automatic" switch in the circuit with said control switch and movable to "raise" or "lower" position, said selector switch when in "raise" position breaking the circuit to the "lowering" solenoid and when in "lower" position breaking the circuit to the "raising" solenoid, a photocell operatively connected to said photoelectric relay, and light mechanism arranged to project a beam of light onto the load on the load support and said beam being reflected onto the photocell when the load is in the path of the beam of light, said reflected beam being at an acute angle to said projected beam of light and said photocell and lamp mechanism being vertically adjustable and located on the same side of the load support.

2,653,680
TRACTOR-TRAILER BRAKE PROPORTIONING COMBINATION
Frederick R. Allin, Euclid, and Frederic D. Wyss, Cleveland Heights, Ohio, assignors to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio
Application June 16, 1948, Serial No. 33,348
12 Claims. (Cl. 188—3)

1. For use in a tractor-trailer braking system having a pressure differential power device for operating the tractor brakes, a pressure differential power device for actuating the trailer brakes, an operator controlled source of liquid under pressure for controlling both devices, and a source of air at non-atmospheric pressure; a pneumatic regulating valve for connection to each power device and to said air pressure source, hydraulic valve operating motor means associated with each valve, said motor means having a common hydraulic connection with said liquid pressure source, each of said pneumatic valves including a control chamber bounded by a single diaphragm, a pair of ports leading to said control chamber adapted for independent connection with the atmosphere and with the source



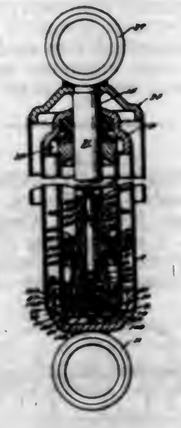
of air at non-atmospheric pressure, unitarily moving valves for said ports, means for causing motion of said single diaphragm to operate both of said valves, means rigidly connecting said hydraulic motor to said diaphragm, resilient means engaging each diaphragm and associated valve operating motor arranged to oppose the force of said liquid pressure source, one of said hydraulic motor means and its associated resilient means being arranged to respond to a lower pressure than does the other of said hydraulic motor means and its associated resilient means, means for connecting the control chamber of one valve to the tractor brake operator and means for connecting the control chamber of the other valve to the trailer brake operator.

2,653,681
SHOCK ABSORBER
William D. McIntyre, Monroe, Mich., assignor to Patent Development Company, Monroe, Mich., a partnership
Application November 17, 1949, Serial No. 127,850
2 Claims. (Cl. 188—88)



1. A tubular, direct-acting, hydraulic shock absorber including a pair of substantially concentric tubular members, one providing a pressure cylinder and the other cooperating with the pressure cylinder to provide a fluid reservoir chamber, means closing the opposite ends of said tubular members and including a base valve assembly disposed in said pressure cylinder adjacent one end thereof and providing for fluid communication between the pressure cylinder and reserve chamber, a piston assembly slidably disposed in said pressure cylinder and including a ported piston body, valve members for controlling the flow of fluid through said piston body, a piston rod having a portion extending through the closure means at the opposite end of the pressure cylinder from said base valve means, means connecting said piston body to said piston rod adjacent one end thereof, the exteriorly disposed portion of said piston rod being unconfined by any part of the shock absorber, said base valve assembly including a valve body, valve members positioned on the upper surface of the said body, said assembly having a rigid, non-flexible part provided with an upper headed end overlapping said valve members and an annular shoulder positioned in direct abutment with a mating supporting surface on said valve body to stop movement of said piston in a direction toward said base valve assembly.

2,653,682
SHOCK ABSORBER
Ralph H. Whisler, Jr., and Dale A. Palmer, Monroe, Mich., assignors to Patent Development Company, Monroe, Mich., a partnership
Application December 17, 1949, Serial No. 133,522
6 Claims. (Cl. 188—88)



1. A shock absorber including a pressure cylinder adapted to contain fluid, a piston assembly slidably disposed in said pressure cylinder including operating rod means and a piston body connected with said rod means adjacent one end thereof, said rod means having passageway means therein to permit fluid to flow from one side of said piston body to the other side thereof, plunger means slidably supported in said rod means and having passageway means therein adapted to register with the passageway means in said operating rod means to permit fluid to pass therethrough, resilient means normally supporting said plunger in said rod means so that the passageway means thereof are in registration with the rod means passageway means, said plunger means being actuable by fluid pressure in said pressure cylinder during movement of said piston in one direction so as to cause said plunger means passageway means to move at least partially out of registration with said rod passageway means and thereby prevent or at least reduce the flow of fluid from one side of said piston to the other, and additional valve means associated with said piston body normally preventing the flow of fluid from the one side of said piston body to the other side thereof, and being actuable by fluid pressure after said plunger passageway means are moved at least partially out of registration with said rod passageway means to primarily control the flow of fluid from one side of said piston body to the other.

2,653,683
TELESCOPIC SHOCK ABSORBER
John Noble Strauss, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application September 27, 1947, Serial No. 776,437
11 Claims. (Cl. 188—88)

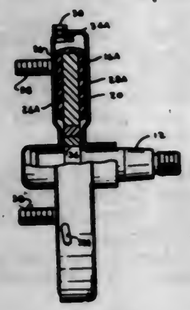


2. In combination in a direct acting shock absorber construction, a cylinder tube, a casing tube of larger diameter than the cylinder tube, a piston operable in the cylinder tube and having a piston rod projecting from one end thereof, a closure member axially bored and providing a sliding bearing for the piston rod, said closure member interfitting with the end of the cylinder tube and having a portion thereof in annularly spaced relation to the surrounding portion of the casing tube, a packing gland structure, a closure cap carried by said closure member and providing a packing gland chamber therewith about the end portion of the piston rod, the extremity of said casing tube being turned over to hold said closure member and said closure cap assembled with the cylinder tube, said closure member having a peripheral groove therein partially closed by the wall of the casing tube and the proximate portion of the closure cap, and packing compressed into said groove and the space between the closure member and the casing tube by said proximate portion of said closure cap to prevent leakage of fluid from the interior of the shock absorber.

2,653,684
FRICTION TYPE SHOCK ABSORBER
Curt Saurer and Frederick M. Guy, Detroit, Mich., assignors to U. S. Universal Joints Company, a corporation of Michigan
Application September 14, 1950, Serial No. 184,847
4 Claims. (Cl. 188—130)

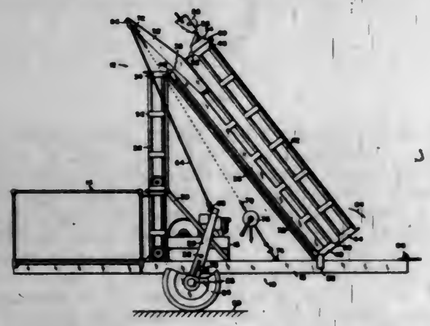
1. A shock absorber comprising a shaft, a disc having friction surfaces on its opposite faces, clutch means mounted on said shaft for opera-

tively connecting said shaft with said disc, a cylindrical housing enclosing said disc and being formed from two sections joined together at their outer peripheries, one of said sections overlapping the other section and being secured there-



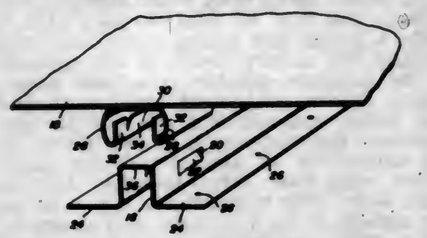
to by a plurality of bolts extending through circumferentially inclined elongated apertures spaced about the outer peripheries of said sections, whereby the axial spacing between said sections can be varied to provide desired frictional engagement of said sections with said friction surfaces of said disc.

2,652,685
PORTABLE HOISTING TOWER
Steward T. Buck, Cincinnati, Ohio
Application May 22, 1950, Serial No. 163,364
5 Claims. (Cl. 189—15)



1. In combination: A transport vehicle including a base, wheel levers pivotally mounted on said base, wheels rotatably journaled to one end of each of said levers, said levers movable between raised and lowered positions for disposing said base in an elevated, wheel-borne position or in a lowered, immobile position with the wheels fully retracted, a sectional tower including a first section which is secured to and in upstanding relationship with said base, and a second section pivotally secured to said first section, a tower lever secured to and projecting from the lower end of said second section, means interconnecting that end of the wheel lever remote from its associated wheel with the free outer end of said tower lever whereby the weight of said base, including the weight of the tower supported thereon, is utilized to swing said second section upwardly about its connection with the first section incident to movement of said base from an elevated wheel-borne position to a lowered immobile position, and means operable for anchoring the second tower section in a fully lowered position relative to the base for precluding accidental or unintentional relative movement between the wheel levers and base when the said base is in a fully elevated wheel-borne position.

2,653,686
STRUCTURAL JOINT
Arthur Routt, Dundas, Ill.
Application October 18, 1948, Serial No. 55,105
1 Claim. (Cl. 189—36)



Means for securing two building structures together comprising a channel member secured to one structure in inverted position and having pairs of opposite side apertures therein provided in each pair with a pair of portions bent at the lower edges of the apertures out of the same and into the channel member clear of the top edges of the apertures so that said top edges are adapted to function as shoulders, and a plurality of saddle members secured to the outer structure in straddling relation to the channel member and having top webs and resilient sides with resilient marginal portions bent inwardly and extending upwardly toward said webs, said marginal portions being flat and gripping the sides of said channel members and having portions bent therefrom inwardly of the saddle members and extending into said apertures, said last named portions engaging said first named portions flatly and being engaged by said shoulders.

2,653,687
BENDABLE TONGUE ATTACHING DEVICE
Wilmer H. Churchill, Wellesley, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application June 15, 1949, Serial No. 99,294
2 Claims. (Cl. 189—36)



2. A fastener installation including a supporting panel having an aperture and a fastener device comprising a base portion having at least two openings therein, said base portion having means on one face thereof for fastener engagement with a part to be secured by said fastener and attaching means extending from the opposite face of said base securing said fastener device to said supporting panel, said attaching means comprising a tongue cut from the material of said base portion and extending integrally from the side edge of one of said openings adjacent to the other of said openings, said tongue being disposed at an angle to said base portion in superposed relation to said one opening to provide a hook for engagement behind said supporting panel through the aperture therein, and a second tongue cut from the material of said base portion and extending integrally from the side edge of said other opening opposite the side edge thereof nearest said one opening into the aperture of said supporting panel adjacent an opposite edge thereof, a reinforcing rib formed in said second tongue extending longitudinally thereof and terminating short of the junction of said tongue with said base, said second tongue prior to assembly of said fastener device with said panel extending substantially normal to said base to permit it to be inserted into the aperture in the support panel adjacent said opposite edge of said aperture while said first tongue is hooked over said one edge of said aperture, said second tongue upon such insertion being bent upon a transverse line to underlie said support panel adjacent said opposite edge thereof.

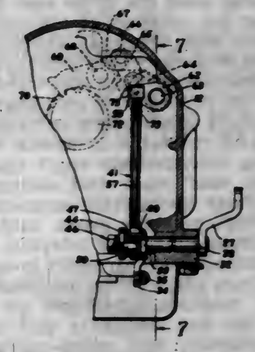
2,653,688
FENCE POST ANCHOR
Warren W. Gordon, Mount Gilead, Ohio
Application August 30, 1950, Serial No. 182,376
1 Claim. (Cl. 189—91)



An anchor of the character described comprising an elongated member provided at its upper end with structure engaging means and at its lower end with a helical screw formation, and outstanding fins projecting from portions of certain convolutions of the screw formation and following the curvature of said formation, and said fins each tapering outwardly from their lower ends, said fins each extending in spaced circumferential relation to one another with respect to the longitudinal axis of said screw.

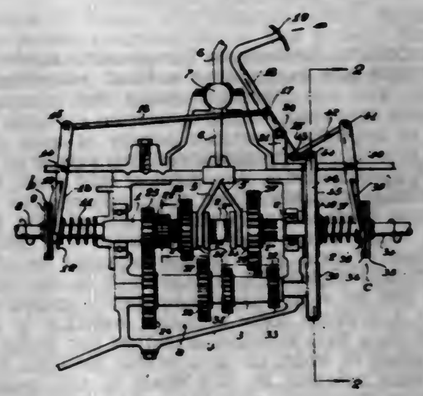
2,653,689
PARKING BRAKE FOR AUTOMOTIVE VEHICLES
Woodrow A. Hasbany, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a corporation of Delaware
Application January 20, 1951, Serial No. 207,020
2 Claims. (Cl. 192—4)

1. A parking brake lock-up mechanism for use with a shift lever secured to a shaft for rotation therewith and in which the shift lever is adapted to have engagement with a selector rod of a transmission having an output shaft comprising a ratchet secured to said output shaft, a pawl for engaging said ratchet to brake said output shaft, linkage means between said pawl and said shift lever of said selector means comprising arm means mounted for movement relative to said shift lever, co-engaging lug means on said arm means and said shift lever whereby said shift lever in one direction of rotation thereof effects rotation of said arm means, first spring means between said shift lever and said arm means to bias them normally to engage the lugs thereof with each other, a rod having pivotal connection with said arm means, a crank arm associated with said pawl for effecting movement thereof toward and away from said ratchet, said rod member having lost motion connection with said crank arm, second spring means extending between said arm means and said crank arm



adapted to be compressed in said one direction of rotation of said shift lever and said arm means for urging said crank arm in a direction to engage said pawl with said ratchet, and said lost motion connection of said rod with said crank arm providing upon binding engagement of said pawl with said ratchet and upon rotation of said shift lever in the opposite direction for relieving said second spring means and for loading said first spring means so that upon application of torque to said output shaft said first spring is adapted to dispose said pawl to disengaged position with respect to said ratchet.

2,653,690
MOTOR TRANSMISSION
Vicente Alberto Pedro Saracchi, Buenos Aires, Argentina
Application February 19, 1951, Serial No. 211,669
4 Claims. (Cl. 192—4)



1. In a gear box for motor transmission, the combination with an input drive shaft including a terminal clutch member, and an output drive shaft also including a terminal clutch member, said shafts being spaced apart intermediate the

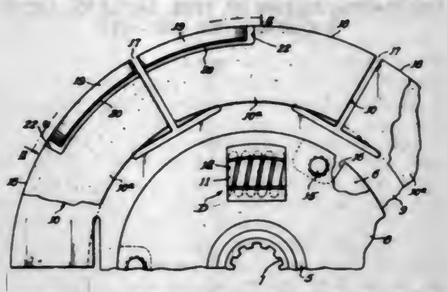
respective clutch members with the shafts and clutch members axially alined, of a shiftable gear mechanism assembly operatively positioned intermediate said clutch members for providing variable relations between the drive and driven shafts at will, said mechanism including a gear carrying main shaft having a terminal clutch member complemental to the drive shaft clutch member, a gear carrying secondary shaft also having a terminal clutch member complemental to the driven shaft coupling member, said main and secondary shafts being axially alined with each other and with the drive and driven shafts and mounted for rotation at different or similar speeds at will, said terminal clutch members on the main and secondary shafts being axially movable for engagement with the terminal clutch members of the drive and driven shafts, the gears of the secondary shaft being movable axially on such shaft and rotatable in unison therewith, a gear carrying intermediate shaft spaced in parallelism with said main and secondary shafts, and a shift lever operatively connected with the secondary shaft movable gears, said mechanism assembly being mounted for selective engagement of predetermined gears by shift lever activity to drive the driven shaft under variable speed conditions and rotation directions at will, brake mechanism for the secondary and intermediate shafts respectively; and pedal-operated control mechanism for concurrently engaging and disengaging the clutch members of the main and secondary shafts and for applying and releasing braking relations with the secondary and intermediate shafts by pedal activity at will.

2,653,691
ANTIFRICTION SCREW REVERSIBLE BRAKE MECHANISM
Richard H. Weiland, Seattle, Wash., assignor to Boeing Airplane Company, Seattle, Wash., a corporation of Delaware
Application March 30, 1951, Serial No. 218,382
2 Claims. (Cl. 192—8)



1. Control mechanism for coacting screw and nut elements, comprising a shaft connected to rotate with one of such elements, disk means encircling said shaft, defining friction surfaces facing in opposite directions axially of said shaft and movable in opposite directions axially of said shaft by lengthwise movement of said shaft, friction rings encircling said shaft adjacent to said friction surfaces, respectively, one of said friction rings being engageable with the friction surface of said disk means adjacent to it by lengthwise movement of said shaft in one direction and by such engagement being operable to exert a braking force opposing rotation of said shaft in a first rotative direction but being inoperative to exert an appreciable braking force opposing rotation of said shaft in the opposite rotative direction, and the other friction ring being frictionally engageable with the friction surface of said disk means adjacent to it by lengthwise movement of said shaft in the opposite direction and by such engagement such other friction ring being operable to exert a braking force opposing rotation of said shaft in the rotative direction opposite such first rotative direction but being inoperative to exert an appreciable braking force opposing rotation of said shaft in said first rotative direction, said friction rings having annular flanges, a casing, bearing means interengaged between the inner surface of each friction ring flange and said shaft, enabling said shaft to rotate relative to said friction rings, and bearing means in the same radial plane of said shaft as said first bearing means and interengaged between the outer surface of each friction ring flange and said casing, enabling said friction rings to rotate relative to said casing.

2,653,692
SELF-CENTERING CLUTCH DISK
John B. Polomski, Jr., Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application March 7, 1950, Serial No. 148,165
4 Claims. (Cl. 192—68)

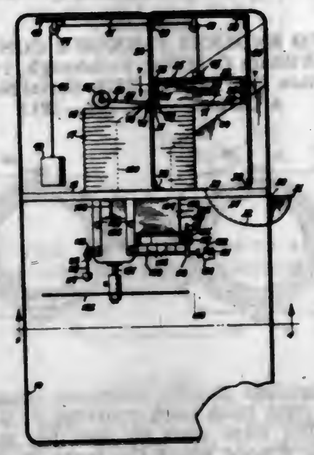


1. In a clutch assembly, a self-centering clutch driven plate adapted for engagement between axially spaced driving clutch members and comprising a hub; a disc carried by said hub and defined by a sheet metal plate having generally radial slots therein dividing the outer region of said disc into a plurality of circumferentially spaced segments; friction facing members secured to opposite sides of the outer region of said disc and adapted to be engaged between driving members of the clutch assembly; and circumferentially extending elongate lips in each segment and extending in opposite directions at each side of certain slots, said lips having therein outwardly extending arcuate regions between their ends with the intermediate portion of the arcuate regions protruding axially beyond the plane of the proximate friction facing member for engagement respectively with said driving clutch members, both ends of each lip being disposed within the planes of said friction members, and said friction facing members on said disc having recesses therein for accommodating the adjacent lips, said arcuate regions of the lips being effective to center said clutch driven plate between the clutch driving members by contact therewith, thereby maintaining said friction facing members out of contact with the driving clutch members during disengagement of the clutch assembly.

2,653,693
APPARATUS FOR DISPENSING CLOTH TOWELS
Harry E. Desberg, Eggertsville, N. Y., assignor to Ilac Products Corperation, Buffalo, N. Y., a corperation of New York
Application February 24, 1949, Serial No. 78,083
9 Claims. (Cl. 194—4)

1. A receiver for soiled towels and the like, comprising a casing forming a compartment for soiled towels, said casing having an inlet opening

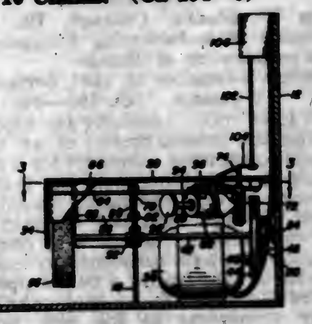
in one wall thereof through which soiled towels are thrown from the exterior of said casing into said compartment, a member movably mounted in said casing in the path of the soiled towels so thrown from the exterior of said casing into said compartment and moved by each passing towel, a distributing member movably mounted in said casing in the path of the soiled towels so thrown from the exterior of said casing into said compartment and at a point to engage said soiled towels subsequent to the engagement of said soiled towels with said first movably mounted member and to fling said soiled towels around said compartment, and means arranged to actu-



ate said distributing member in response to the movement of said first movably mounted member.

7. In apparatus for dispensing cloth towels, a switch mechanism actuated in response to a towel sliding down an inclined wall, comprising a tine having a sharp pointed end, means arranged to pivotally support the other end of said tine below and adjacent the lower edge of said inclined wall with its sharp pointed end extending upwardly into the path of said towel sliding down said inclined wall whereby said pointed end impales said towel, means yieldingly holding said tine with its sharp pointed end in said position, and a pair of electrical contacts arranged to be opened and closed in response to the movement of said tine by said towel and said yielding means.

2,653,694
SHOE POLISHING MACHINE
Paul F. Arnold, Long Beach, Calif.
Application August 14, 1950, Serial No. 179,296
10 Claims. (Cl. 194—6)



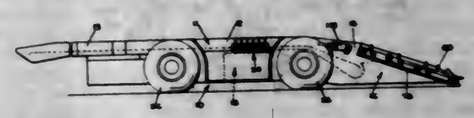
1. A shoe shining machine comprising a pair of spaced parallel shafts, power means connected to and rotating said shafts toward each other, a brush mounted on each shaft, a conduit associated with each brush, said conduits including discharge ends disposed adjacent the brushes for supplying a liquid polish to the brushes, a pump operatively connected to said conduits for directing a liquid polish through the conduits, a vertically swingable platform mounted between said shafts, and a foot actuatable operator for the pump disposed adjacent the platform and accessible to a user's foot on the platform.

2,653,695
ERASURE-DEBRIS COLLECTING DEVICE ON TYPEWRITERS AND LIKE MACHINES
Walter Ettmüller, Zurich, Switzerland
Application August 28, 1951, Serial No. 244,962
In Switzerland August 30, 1950
3 Claims. (Cl. 197—181)



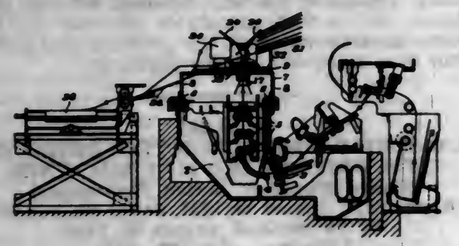
1. In combination with a typewriter or like machine having a carriage and a platen, an erasure-debris collecting device swingably mounted on the carriage and extending in the direction of the platen; the said device comprising an apron of which the front end is formed as gutter and the rear end lies against the platen when in the operative position for collecting debris and against the carriage front bar when swung to the non-operative position, the said gutter being of substantially semi-circular cross-section of which the centerline is coaxial with the axis of swing, and an outside trough clampedly and rotatably mounted on the outside of said gutter for the purpose of closing the latter in its non-operative position and of opening the gutter in the said operative position.

2,653,696
LOADING MACHINE
Sterling C. Moon, Worthington, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company, a corporation of Ohio
Application October 2, 1945, Serial No. 619,766
8 Claims. (Cl. 198—8)



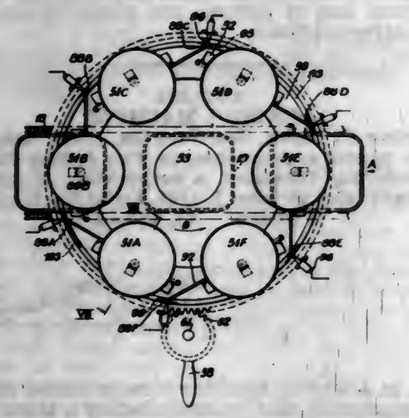
2. In a loading machine a main frame, means for supporting said frame including a transverse axle, traction means at opposite ends of said axle, a driving motor carried by said frame, all mechanical gearing interconnecting said driving motor and said traction means, a gathering mechanism frame, gathering mechanism on said gathering mechanism frame, means pivotally mounting said gathering mechanism frame on said transverse axle, and all mechanical gearing interconnecting said driving motor and said gathering mechanism including a rotary gear mounted for rotation on said axle.

2,653,697
HANDLING SHEETS DELIVERED FROM A DIPPING TANK
Steve J. Brunansky and Harold Forsythe, Gary, Ind.
Application May 17, 1949, Serial No. 93,796
8 Claims. (Cl. 198—33)



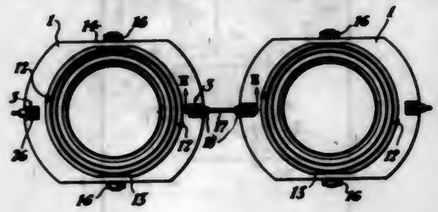
1. A method of handling sheets delivered from a dipping tank comprising delivering in a direction generally parallel to the adjacent edges of the sheets two sheets in generally coplanar side-by-side relation, turning the sheets in opposite directions transversely of the plane of the sheets, delivering the thus turned sheets in generally coplanar relation in the same direction transversely of said first mentioned direction, changing the direction of movement of the sheets so that they follow one another in a direction transversely of their adjacent edges and moving the sheets in the last mentioned direction onto a pile with the trailing sheet atop the leading sheet.

2,653,698
CONVEYER AND TRANSFER MECHANISM FOR USE WITH WEIGHING MACHINES
Cyril Best, Deptford, London, England, assignor to Molins Machine Company Limited, London, England, a British company
Application May 12, 1950, Serial No. 161,562
In Great Britain May 13, 1949
3 Claims. (Cl. 198—39)



1. Apparatus for delivering from a weighing machine a succession of weighed parcels of material comprising, in combination, a plurality of pans, means for discharging a weighed parcel from said weighing machine into an empty pan, a first conveyor mechanism for moving said pans in a closed path to convey the resulting filled pan from a first position in said path where it receives a parcel and to convey a further empty pan into such first position, a plurality of buckets, a second conveyor mechanism for moving said buckets in succession and at regular intervals into a second position, means channeling parcels of material discharged from a filled pan at any of a plurality of positions in said closed path into a bucket at said second position, and detecting means operable in timed relation with said second conveyor mechanism for detecting the leading filled pan at any of said plurality of positions in the said closed path, and causing such pan to discharge its contents through said channeling means into that bucket which is located at said second position.

2,653,699
LINKED ENDLESS FLEXIBLE CONVEYER
William C. Miller, Pittsburgh, Pa.
Application February 23, 1950, Serial No. 145,777
4 Claims. (Cl. 198—181)

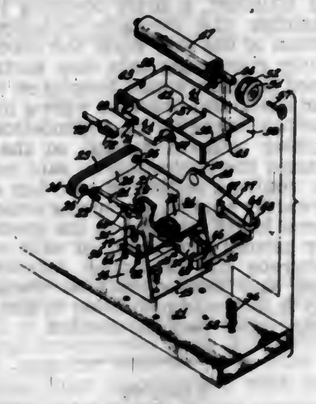


1. An endless flexible conveyor comprising a series of rigid links each provided at its leading and trailing ends with an opening, said openings being spaced apart the same in each rigid link, a sprocket-engaging member disposed beneath each opening and engaging the surface surrounding the opening, flexible cable links connecting adjacent rigid links, each of said cable links including a fixed length of cable having a lug secured to each of its ends, said lugs each being provided with an opening substantially axially aligned with a rigid link opening, said lug openings being spaced lengthwise of each cable link the same as in all other cable links and the portion of each lug surrounding its opening engaging the surface surrounding an opening of a rigid link, and a pin extending through each of said aligned lug and rigid link openings into one of said sprocket-engaging members for immovably clamping each of said rigid links between said engaging surfaces of the lugs and the sprocket-engaging members.

2,653,700
IDLER ROLLER ASSEMBLY FOR BELT CONVEYERS
William W. Sloane, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application November 15, 1951, Serial No. 256,418
7 Claims. (Cl. 198—202)

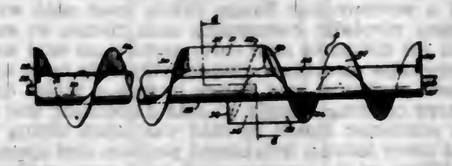
1. An idler roller assembly for supporting and correcting the misalignment of an endless conveyor belt comprising a support for a frame which is tiltable in accordance with the loading of said belt about an axis extending longitudinally of said belt, a cage mounted on said frame for limited swiveling movement with respect to said frame about an axis substantially normal to the tilting axis of said frame, a belt supporting roller supported for rotation by said cage on an axis normally transverse to the belt, an adjusting wheel supported by said cage and positioned for rotation by said belt upon misalignment thereof,

and a track supported by said frame and engaging said wheel, so that upon rotation of said



wheel said cage will be swiveled in a direction whereby the roller supported thereon will urge said belt to aligned position.

2,653,701
NONWINDING HEADER AUGER
Sherman C. Heth, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application August 9, 1950, Serial No. 178,479
12 Claims. (Cl. 198—217)



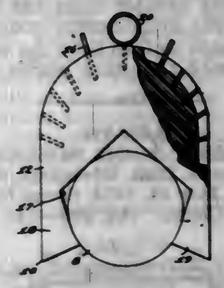
1. A screw conveyor for conveying grain in a harvester provided with a feed trough and a discharge opening, the improvement comprising, a left-hand and a right-hand flight, said left-hand flight having a point of termination at the left of the medial vertical plane of said discharge opening, a first web lying in a radial plane and extending rightwardly from said point of termination to the point of intersection with said right-hand flight at the right of said medial plane, said right-hand flight continuing leftwardly and rotationally from said point of intersection to a point of termination substantially 180 degrees from said first web, a second web lying in a radial plane and extending from said last mentioned point of termination rightwardly to the point of intersection with said right-hand flight, paddle portions substantially co-extensive with said first and second webs and secured to the peripheral edges thereof, said paddle portions extending substantially tangent to said core portion in the direction of rotation of said conveyor and a retarder member secured co-extensively to the upper edge of said discharge opening and extending forwardly to a point adjacent said conveyor, and a resilient member secured to said retarder member and adapted to contact the periphery of said conveyor.

2,653,702
SWINGING DEVICE FOR VIBRATORY CONVEYERS AND THE LIKE
Gerhard Linke, Mulheim an der Ruhr, Germany, assignor to Alfried Krupp von Bohlen und Halbach, doing business as Fried. Krupp, Essen, Germany
Application June 15, 1950, Serial No. 168,283
In Germany July 1, 1949
3 Claims. (Cl. 198—220)



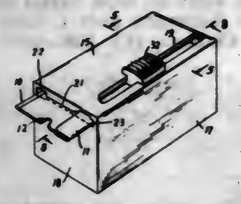
2. A swinging device for vibratory conveyors and the like, comprising a stationary support, an oscillatory frame yieldingly connected with said support, an oscillatory mass having an oscillating direction inclined to the vertical and being oscillatorily mounted on said frame independently of said support, said mass and said frame being subdivided into respective pairs of oscillatory portions, a swing link pivotally mounted on one of said frame portions, said two mass portions being pivotally joined with said swing link to oscillate in inverse relation to each other, and coupling members interconnecting the two portions of said frame pair, said coupling members being rigid in the horizontal direction and yieldable in the vertical direction.

2,653,703
COIN HOLDER
David G. Krauss, Amana, Iowa
Application June 8, 1951, Serial No. 230,457
2 Claims. (Cl. 206—84)



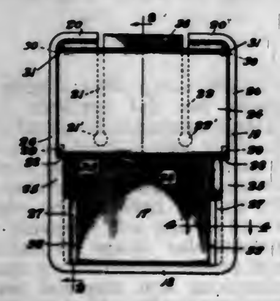
1. A coin holder comprising a body of elastic material having two flat surfaces disposed in spaced apart and substantially parallel relationship to each other and a third surface disposed between the edges of said two flat surfaces, said third surface having a rounded groove extending longitudinally thereof between the edges of said flat surfaces and having coin receiving recesses of elongated rectangular shape extending transversely of said groove at uniformly spaced apart locations therealong and disposed between and substantially perpendicular to the adjacent portions of the edges of said two flat surfaces, said third surface being of U shape and including a substantially semicircular intermediate portion with said groove and said coin receiving recesses disposed in such semicircular portion, and said body having in the end thereof remote from the semicircular portion of said third surface an open sided recess of polygonal shape adapted to receive and embracingly engage an automobile steering column.

2,653,704
SINGLE-EDGE BLADE DISPENSER
Edgar A. Nelsen, New York, N. Y., assignor to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia
Application August 6, 1948, Serial No. 42,849
2 Claims. (Cl. 206—16)



1. A dispensing magazine for unwrapped single-edge safety razor blades of the type having a reinforcing back and end notches, comprising a casing having top, side and end walls, and bottom, a discharge slot at the intersection of one end wall and the top, widened at one end to permit passage of the reinforcing back, an opening in the top behind the widened end of the slot providing access to the blades, vertical guide bars in the end walls, the forward bar terminating at the lower edge of the discharge slot, a stack of blades in the casing with their reinforcing backs in contact and their end notches in alignment and embracing the vertical guide bars, a spring interposed between the bottom of the casing and the bottom of the blade stack, engaging the reinforcing back of the lowermost blade and urging the stack upward with the topmost blade against the underface of the top and in alignment with the discharge slot, and a longitudinal rib on the underface of the top spaced from the side wall of the casing, which is adjacent the reinforcing backs of the blades, a distance slightly greater than the width of the reinforcing backs and thereby cooperating with said adjacent side wall to hold the topmost blade in alignment with the other blades of the stack.

2,653,705
MATCH BOOK HOLDER
Andrew D. Hall, Riverdale, N. Y.
Application July 14, 1950, Serial No. 173,709
1 Claim. (Cl. 206—33)



In a match case, a hollow body shaped to hold a packet of matches therein, said hollow body including a back wall, side walls, a top wall, and a bottom wall, said top wall and the upper portion of said back wall having spaced slots formed therein to form end sections and a center resilient section, the end sections of said top and back walls being formed integral with said side walls, a projecting shoulder at the lower end of each of said side walls extending parallel to said back wall for retaining the lower end of the packet of matches in said match case, an indented shoulder and stop surface positioned above said projecting shoulder, a cover covering the heads of the matches and pivotally mounted on the upper portion of the side walls, the lower surface of said cover contacting said stop surface when in the closed position, a cam formed on the upper end of said cover and provided with a projection, said projection engaging an indentation formed in said center resilient section so that as the cover is raised the projection on said cam forces the center resilient section of said top and back walls rearwardly against the spring action thereof, said cover being retained in the open position by further pivotal movement of said cover upwardly whereby the projection formed on the cam forces said center resilient section more rearwardly to lock said projection in the indentation in said center resilient section.

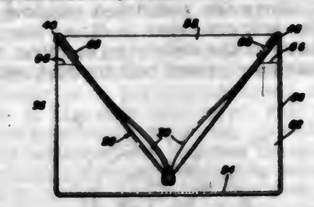
2,653,706
DISPENSING CONTAINER FOR TABLETS AND THE LIKE
Robert E. Aggson, Azalea, Oreg., assignor of forty per cent to Emmett B. Cook, Azalea, Oreg.
Application May 24, 1950, Serial No. 163,856
6 Claims. (Cl. 206—42)



1. A tablet dispensing container having a dispensing end for discharging tablets by gravity when the container is tilted by hand to lower said end, said container comprising a bottom section having a surrounding wall, a cover section having a surrounding flange fitting over said wall, means pivotally connecting said flange to said wall for tilting of said cover section on said wall in opposite directions, respectively, into open and closed positions, said flange having a tablet discharge opening therein at said dispensing end of the container closed by said wall upon tilting of said cover section into closed position and opened by tilting of the cover section into open position, and a tablet elevating platform spaced from and secured to said cover section adjacent said opening for movement inwardly and outwardly of the bottom section by tilting of said cover section into closed and open positions to pick up and lift a tablet out of said bottom section for discharge through said opening, said platform having a rear opening spaced above its bottom for passing a tablet in said bottom section on to the platform and to prevent rearward movement of the tablets off said platform and also having a front opening in line with the discharge opening for passing the tablet off the platform to the discharge opening, said bottom section having a pocket in its bottom seating the platform when the cover section is closed to position said rear opening for passing the tablets therethrough onto the platform.

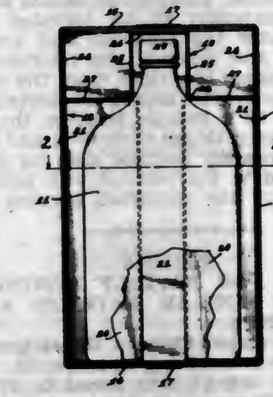
2,653,707
EASTER BASKET
Garfield R. Brown, Eau Claire, Wis.
Application August 30, 1950, Serial No. 182,221
1 Claim. (Cl. 206—45.19)

A basket of the type described, comprising in combination, a box-shaped base having an open top and including a pair of end walls provided with V-shaped cradles, an open book positioned on said base and including a pair of covers having opposite end portions thereof seated in said cradles, said book affording a receptacle, and means on said base for retaining the book in position thereon, plates secured to inner surfaces of said end walls and provided with V-shaped recesses constituting said cradles, portions of said



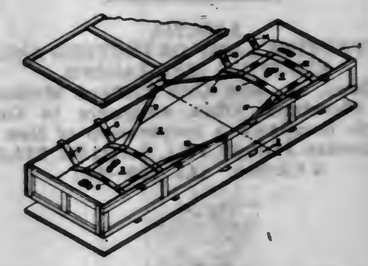
end walls adjacent said recesses being disposed at the opposite ends of said book and coacting therewith in defining said receptacle, said means comprising downturned flaps provided at upper edges of opposite side walls of said base and overlapping outer longitudinal edge portions of said covers.

2,653,708
CARTON AND PACKING CELL
Richard O. Spalding, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a corporation of Ohio
Application April 26, 1949, Serial No. 89,719
3 Claims. (Cl. 206—46)



1. A package comprising a carton including vertical side walls and horizontal top and bottom walls, a packing cell consisting of a sheet of resilient material with parallel score lines defining rectangular panels including diagonal panels, intermediate panels connecting the diagonal panels and lying flat against inner faces of the vertical carton walls, and end panels bent back from the adjoining diagonal panels and having their free edges bearing against opposite side walls of the carton, a bottle having a circular body, neck and intermediate shoulder portion, said bottle positioned within the cell with the sides of the bottle bearing against the diagonal panels of the cell, and a cap consisting of a sheet of resilient material formed with parallel score lines defining a series of panels including vertical end panels bearing against opposite sides of the carton, inner vertical panels, horizontal panels connecting said vertical inner and end panels, and a top horizontal panel connecting said inner panels, said cap being seated on said cell and bearing against the shoulder of the bottle at the lines of juncture of said inner vertical panels and horizontal connecting panels, the top horizonal panel of the cap bearing against the under surface of the top wall of the carton.

2,653,709
PACKAGING ARRANGEMENT
Gale C. Cunningham, Inglewood, and Harold A. Kilmer, Manhattan Beach, Calif., assignors to North American Aviation, Inc.
Application December 11, 1950, Serial No. 200,294
1 Claim. (Cl. 206—46)



A packaging arrangement comprising a supporting casing and at least two hood members, said hood members encompassing opposite ends of a part to be supported in said casing, each hood member being provided with strap means for attachment to said casing, said strap means including straps integral with and extending laterally across the upper portion of said hood member and attached to the lower portion of said casing, and straps integral with and extending laterally across the lower portion of said hood member and attached to the upper portion of said casing thereby providing vertical and lateral support for said part for all positions of said casing, and including longitudinal straps integral with the upper portion and longitudinal straps integral with the bottom portion of said hood member, said longitudinal straps being disposed at substantially right angles to said laterally extending straps, extending inwardly from said hood member and attached to said casing at the central portion thereof thereby providing longitudinal support for said part for all positions of said casing.

2,653,710
PACKAGING WINDOW SHADES
Charles M. Judd, Cincinnati, Ohio, assignor to The Chas. W. Breneman Co., Cincinnati, Ohio, a corporation of Ohio
Application September 8, 1950, Serial No. 183,693
1 Claim. (Cl. 206—59)



A packaged window shade comprising an elongated rigid fibrous tube having two ends, a central recess and a narrow longitudinal slot therein, said slot extending lengthwise of said tube from one end of the tube to the other end of the tube, a window shade including a length of window shade material having a pocket formed at one end thereof, a stiffening strip inserted in said pocket, the opposite end of said shade material being adapted for securance to a shade roller, said pocket being disposed within said tube and the balance of said shade material extending

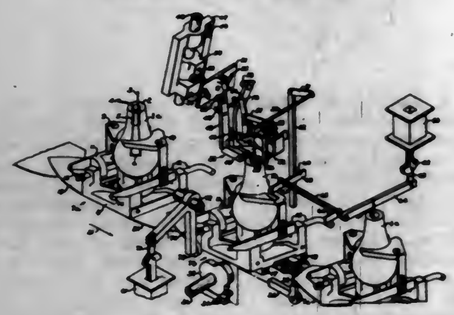
through said slot, said slot being wider than the thickness of said shade and narrower than the width of said stiffening strip whereby said slot is effective to constrain said pocket against lateral escape from said tube, the portion of said shade material disposed exteriorly of said tube being wound in successive convolutions about the tube whereby the free end constitutes the outermost convolution and is thereby accessible for direct attachment to a shade roller without unwinding the balance of the length of material until attachment is completed.

2,653,711

DEFECTIVE LAMP DETECTING AND EJECTING MECHANISM

John Flaws, Jr., and Carl Richard Meckstroth, East Cleveland, Ohio, assignors to General Electric Company, a corporation of New York

Application June 30, 1951, Serial No. 234,594
5 Claims. (Cl. 209—81)



1. In combination with a conveyor system of the indexing type carrying incandescent lamp bulbs in upstanding position on holding chucks, said bulbs normally containing a filament connected to top and side lead-in wires extending from the neck thereof, a pair of movable contacting means mounted at a testing station of said conveyor, a mechanical linkage actuated from the drive means of said conveyor, said linkage comprising means pivoting one of said contacting means into engagement with the top lead-in wire of a bulb located at said station and means lowering and thereafter pivoting the other of said contacting means into engagement with the side lead-in wire of said bulb, said other contacting means being normally raised vertically out of the path of movement of the bulbs on the conveyor, a relay system including said contacting means in circuit and connected for energization upon failure to encounter circuit continuity between said contacting means through said bulb, and means for ejecting said device from said conveyor, said means comprising a solenoid actuated by said relay system and operating to release said bulb in its holding chuck and to eject it therefrom.

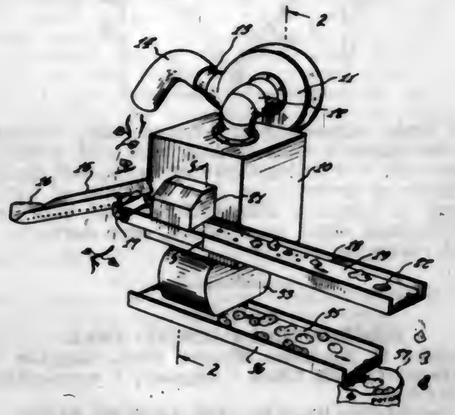
2,653,712

PNEUMATIC POTATO SEPARATING MACHINE

Charles R. Leighton and Noel D. Leighton, Limestone, Maine

Application November 8, 1949, Serial No. 126,676
1 Claim. (Cl. 209—139)

A pneumatic machine for separating potatoes from stones and vines comprising a horizontally-extending belt conveyor for conveying the potatoes, stones and vines, a main potato and vine receiving compartment having a vertical wall portion lying flush with the side of the conveyor, said vertical wall portion having a restricted window opening through which the potatoes and vines may be drawn, a suction head projecting from the vertical wall portion of the compartment from above the restricted window opening and over the belt conveyor to direct the potatoes and vines toward the restricted opening, said belt conveyor having a raised belt support centralized



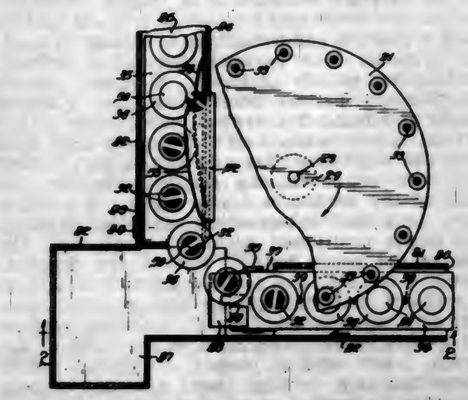
under said suction head to a point near to the restricted opening, suction fan means connected to the compartment at an elevated location thereon to draw the potatoes and vines from the conveyor and through the restricted opening and to remove the vines from the compartment, vane conveyor means connected to the compartment at a bottom location thereon for discharging the potatoes therefrom and a downwardly and inwardly inclined slide for the potatoes connected to the vertical wall portion immediately below the restricted opening thereof.

2,653,713

APPARATUS FOR RAPIDLY MOVING BOTTLES AND SIMILAR ARTICLES AROUND SHARP BENDS

Norman A. Siegal, Chicago, Ill., assignor to Irvin Swartzberg, Chicago, Ill.

Application July 28, 1950, Serial No. 176,467
4 Claims. (Cl. 209—215)



1. In a conveying system for steel-capped glass bottles and the like, a first belt conveyor, a second belt conveyor extending at an angle with

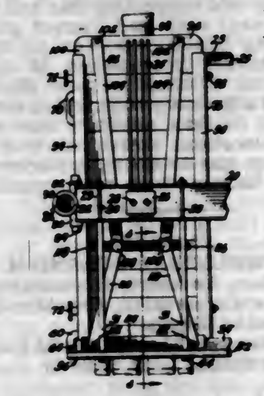
the first, each conveyor providing a flat support for bottles freely standing thereon; a turntable positioned above the intersection of the two conveyors, peripheral parts of the turntable being arranged substantially tangentially to the conveyors, magnet means movable with the turntable and extending to a lowermost position slightly above the steel-capped bottles on the first conveyor to lift such steel-capped bottles magnetically from the first conveyor, means to rotate the turntable at a peripheral speed similar to the speed of the first conveyor; wall means of readily magnetizable material, positioned beneath and adjacent the magnet means and extending along the second conveyor adjacent the turntable to deflect magnetic flux from between the magnet means and the steel-capped bottles and simultaneously to provide lateral support for the bottles which are consequently dropped onto the second conveyor.

2,653,714

HOLDDOWN DEVICE FOR SCREEN FRAMES

David Crampton, Montclair, N. J., assignor to Richmond Manufacturing Company, Lockport, N. Y., a corporation of New York

Application February 14, 1950, Serial No. 144,090
7 Claims. (Cl. 209—319)



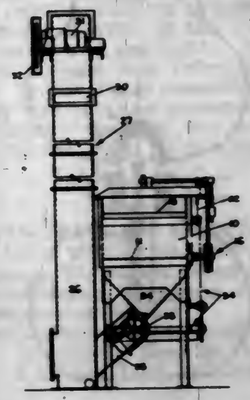
1. An equalizing holddown for a stack of screen frames mounted on a support and said stack having a top frame, comprising at least one pair of downwardly converging elongated tension members severally connected at their upper ends to the corners of said top frame to swing adjacent to and parallel with the side of said stack bounded by said corners and the lower end of each of said tension members being disposed closer to said support than to said top frame, a pair of independently floating members pivotally secured severally to the lower end of each of said tension members, a guide structure secured to said support below said pair of tension members, means movably connecting each of said independently floating members with said guide structure and constraining said independently floating members to move vertically relative to said support in response to movement thereof toward and from each other but permitting movement thereof relative to said support independently of each other, and a floating, manually operable screw means connecting said pair of independently floating members and arranged to positively move said independently floating members toward and from each other thereby to raise and lower said top frame and to apply equalized downward pressure at said corners of said top frame against said stack of screen frames.

2,653,715

JIG

Walter C. Steinmetz, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio

Application June 6, 1950, Serial No. 166,395
6 Claims. (Cl. 209—457)



1. A jig including a container adapted to hold water, a screen in said container upon which material is to be jigged, a weir adjacent said screen over which low gravity material flows with water, said container forming a hutch compartment below said screen, an elevator having a housing communicating with the hutch compartment of said container, means for causing a periodic upward flow of water through said screen, rotary high gravity discharge valve means adjacent said screen for discharging high gravity material to said hutch compartment, rotary star wheel valve means between said hutch compartment and said elevator housing effecting a seal therebetween through which high gravity material is discharged and operative for preventing surging of water in said elevator housing when it is caused to flow upwardly as aforesaid, and means to rotate said rotary star wheel valve means to discharge high gravity material from said hutch compartment into said elevator housing while preserving said seal therebetween.

2,653,716

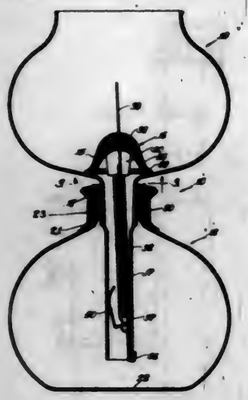
TREATMENT OF FILTERING APPARATUS

Edward J. Corona, Port Allen, La., assignor to Kaiser Aluminum & Chemical Corporation, a corporation of Delaware

No Drawing. Application July 8, 1949, Serial No. 103,739
3 Claims. (Cl. 210—62)

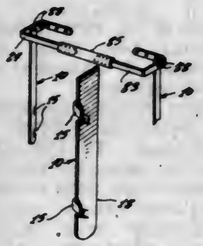
1. A process for restoring the filtering characteristics of filter cloth used to separate the insoluble residues from caustic aluminate solution obtained by digestion of aluminous ores with caustic liquor, and upon which alumina hydrate scale has deposited, which comprises passing a hot solution of caustic soda having a concentration in excess of 150 grams per liter and not substantially in excess of about 250 grams per liter, at a temperature of from about 175 to about 225° F., through the cloth in its position in the filter to dissolve the scale, and thereafter adding the alumina-enriched used caustic soda solution to the spent caustic aluminate plant liquor when the ratio of alumina to caustic soda in the used solution reaches about 0.3.

2,653,717
STRAINER FOR COFFEE MAKERS
Frederick W. Sterner, Chicago, Ill.
Application September 9, 1948, Serial No. 48,432
7 Claims. (Cl. 210—162)



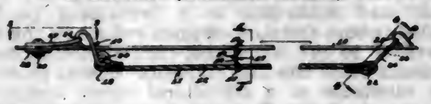
7. The strainer mechanism for a vacuum type coffee maker which includes a bowl having a generally flat supporting surface about the entrance to a depending spout, said strainer mechanism comprising an integral member having an imperforate central body portion and a flexible resilient elastic margin, said elastic margin being provided with channel passageways adapted to permit the passage of fluids and to strain out solid matter, said margin being adapted to engage said supporting surface about the entrance to the spout and being adapted to move radially thereover in response to pressure exerted on the strainer toward the supporting surface during the straining action when clogging of the strainer would occur, such radial movement thereby automatically overcoming the clogging action.

2,653,718
CURTAIN BRACKET
Ann F. Woodward, New York, N. Y.
Application February 9, 1952, Serial No. 270,878
1 Claim. (Cl. 211—105.2)



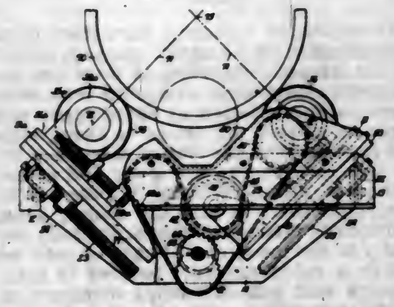
A curtain bracket having a horizontal extension with mounting holes therein and a vertical extension offset forwardly in relation to the horizontal extension, said vertical extension having hooks formed therein, holes being provided in the upper ends of the vertical extensions and L-shaped members attached thereto, and a slideable connecting member engaging the ends of the two L-shaped members.

2,653,719
SUPPLEMENTARY CLOTHESLINE
John G. Field, Edmonton, Alberta, Canada
Application May 5, 1950, Serial No. 160,142
In Canada February 25, 1950
1 Claim. (Cl. 211—119.13)



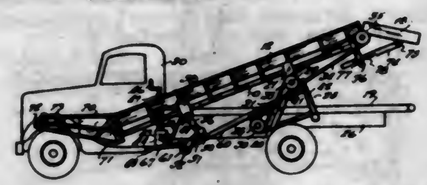
A clothesline assembly comprising a supporting line supported in a taut and substantially horizontal position, and an auxiliary line suspended from said supporting line and comprising a plurality of line sections disposed in end to end relationship along said supporting line, a flat clamp plate permanently secured to said supporting line at one end of said auxiliary line and having an aperture therein, hooks secured one to each auxiliary line section at the ends of said sections nearest said clamp plate with the hook on the auxiliary line section adjacent said clamp plate engaged in the aperture in the latter, flat tightening plates secured one to each of said auxiliary line sections at the ends of the latter remote from said hooks and each having intermediate its length a notch receiving and crampingly engaging said supporting line and apertures disposed one near each end thereof and respectively receiving the end portion of the corresponding auxiliary line section to which the tightening plate is attached and the hook on the end of the adjacent auxiliary line section, and hooks secured to each auxiliary line section at spaced apart locations therealong and engaging said supporting line to assist in suspending said auxiliary line sections from said supporting line.

2,653,720
PROPELLING MECHANISM
Evans Robertson, Lombard, Ill., assignor to Pipe Line Service Corporation, Franklin Park, Ill., a corporation of Illinois
Application January 17, 1951, Serial No. 206,403
6 Claims. (Cl. 214—1)



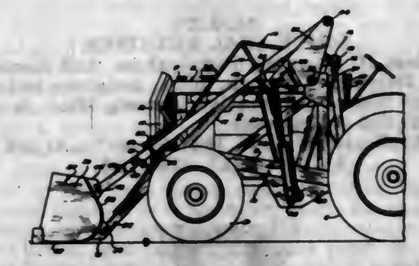
1. A rig for supporting and rotating large pipes of various diameters and simultaneously advancing the pipe longitudinally of its axis a definite distance per revolution, which distance may be varied, comprising: a framework, a pair of pipe supporting rollers each journaled for rotation about its own axis; means for supporting said rollers upon said framework, said means permitting the roller to be turned around an axis extending through the axis of rotation of the roller at right angles thereto midway between the ends of the roller, said axes of turning being disposed at right angles to each other and intersecting on the axis of a pipe supported on the rollers; screw means for operating said supporting means to turn the rollers and thereby adjust the distance of advancement of the pipe per revolution; screw means for moving said supporting means laterally of said frame work thereby to move the axes of turning of said rollers transversely of said framework to adjust the rig for pipes of various diameters while maintaining said axes of turning at right angles to each other and intersecting on the axis of the pipe; driving gear means mounted upon said framework; and an articulated shaft for each roller connecting that roller to said driving gear means to drive the roller and thereby rotate and advance the pipe.

2,653,721
LOADING DEVICE
Hersel G. Cantrell, Jacksboro, Tex.
Application October 20, 1950, Serial No. 191,183
6 Claims. (Cl. 214—83.26)



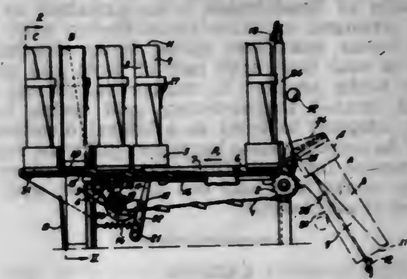
1. In a hay loading elevator for trucks, in combination with an elevator structure operatively mounted on one side of said truck and having a driven continuous conveyor thereon, a drive shaft for said conveyor having a driven connection with the drive shaft of said truck and providing a pivotal mounting for said elevator, a crank shaft arranged forwardly of said elevator and having its inner end rotatively journalled to the frame of said truck, means forming part of said journal support for said crankshaft moving the same longitudinally in the rotation thereof while said elevator is raised and lowered, a winch having a cable thereon connected to said crankshaft for rotating the same to move said elevator to operative and inoperative positions, and a crank for said winch arranged in accessible position for manual operation from the cab of said truck.

2,653,722
TILTING MECHANISM FOR TRACTOR LOADERS
Le Grand H. Lull, Minneapolis, Minn.
Application April 3, 1950, Serial No. 153,723
4 Claims. (Cl. 214—140)



1. For a vehicular loader of the character described having a frame, a boom assembly pivoted to the frame and extending forwardly therefrom, means for swinging the forward end of the boom upwardly and downwardly, and a load carrier pivoted on the forward end of the boom assembly for tilting movements forwardly from a loading position to a dumping position; the improvement which comprises a tilting mechanism for the load carrier and including an operating member on the frame, a tilting link pivoted at its rear end to said operating member and pivoted at its forward end to the load carrier, the said link including front and rear sections and means pivoting these sections together for relative buckling movements whereby in the dumping position of the load carrier the link will buckle and the carrier will tilt past a dead center position with reference to its pivot connection to the boom assembly, and means for limiting said buckling movements of the link sections whereby the link will be operative to push the load carrier to its dumping position.

2,653,723
SUPPLYING PACKING MACHINE OR THE LIKE WITH CIGARETTES
Lars Bergman, Stockholm, Sweden, assignor to Arenco Aktiebolag, Stockholm, Sweden, a joint-stock company of Sweden
Application June 8, 1951, Serial No. 230,500
In Sweden June 28, 1950
3 Claims. (Cl. 214—302)



1. In a cigarette packing machine, a cigarette receiver, a holder adapted to receive a container wall plate having a slidable bottom plate and a box filled with cigarettes to be assembled to form a cigarette container, means for delivering the assembled container to said cigarette receiver, an expeller operative at said cigarette receiver to eject said bottom plate from a filled container to discharge the cigarettes into said receiver, and means for actuating said expeller to transfer said ejected bottom plate from said container to the wall plate of an adjacent emptied container.

2,653,724
SELF-UNLOADING TRUCK BODY
Richard A. McBride, Alton, Ill.
Application February 14, 1951, Serial No. 210,855
6 Claims. (Cl. 214—519)



1. A truck body for transporting and discharging flowable solid materials, comprising a substantially cylindrical horizontally disposed tank, a conveyer running along the bottom of the tank, a scraper mounted on a shaft, said shaft being concentric with said tank and extending through at least one end of said tank, and means connectible to the power take-off of a truck for rotating said shaft, said means comprising a ratchet wheel mounted on said shaft,

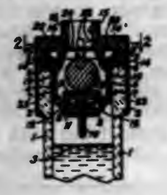
pallets to drive the ratchet wheel, and a link, mounted for reciprocating motion and having an intermediate yielding connection, to drive said pallets.

2,653,725
DRUM LIFT FOR INDUSTRIAL TRUCKS
Wesley J. Dodge, Douglaston, N. Y., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application November 22, 1949, Serial No. 128,865
3 Claims. (Cl. 214—651)



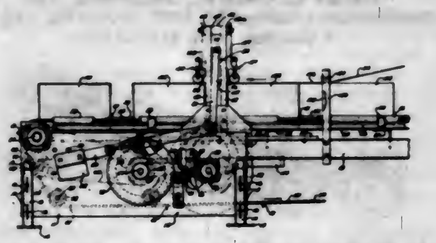
1. A device adapted to engage several barrels positioned on their sides comprising a portable frame, a plurality of fixed hooks depending from one end of said frame, a substantially horizontal axle located at the other end of said frame and pivotally attached to said frame, for each of said plurality of fixed hooks a lug attached to said axle arranged in paired relationship with said fixed hooks, cantilever spring hooks attached to each of said lugs, each pair of fixed and spring hooks being adapted to engage the chimes of a barrel located therebetween, said spring hooks being adapted to bend in a lateral direction in order to accommodate barrels of different length, and means for oscillating said axle to place the spring hooks into and out of contact with the chimes of said barrels.

2,653,726
CLOSURE FOR UNREFILLABLE CONTAINERS
Ricardo More Bernal, Havana, Cuba
Application December 4, 1951, Serial No. 259,839
In Cuba December 23, 1950
2 Claims. (Cl. 215—22)



1. A closure for an unrefillable container of the type having a neck formed at the upper end thereof comprising a cylindrical valve-carrier body made of plastic material and completely fitted within the container neck, said body being open at the top thereof and closed inferiorly by a bottom having a central opening therein, an upper horizontal flange formed outwardly of the body to rest on the top edge of the neck of the container, a top rim formed upwardly from the flange, a disc valve normally sealing the hole in the bottom of the valve-carrier body, a ball within said body normally resting on the disc valve, a plastic cylindrical casing having a top horizontal portion with a cylindrical outlet mouth portion of reduced diameter projecting upwardly and centrally thereof, four radially extending crossed ribs formed on the lower surface of said horizontal portion, teeth projecting downwardly from the interior ends of the ribs to retain the ball, a hard-metal square sheet resting on the top rim of the valve-carrier body between said rim and the lower surfaces of the crossed ribs to define segmental sheet outlet passageways between each of its four sides and the inner periphery of the casing, said sheet having openings therein through which the rib teeth extend and a metallic strap securing the casing to the neck of the bottle to prevent removal of the closure and violation of said sheet.

2,653,727
TAPING MACHINE
Adolph A. Wagner, Milwaukee, Arnold J. Werner, Elm Grove, and William R. Ross, Milwaukee, Wis.
Application April 8, 1950, Serial No. 154,782
2 Claims. (Cl. 216—32)



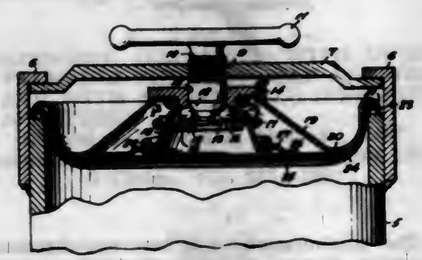
1. In a taping machine having a conveyor for moving spaced, alined cartons longitudinally through said machine and having means for applying tape to the tops of said cartons as said cartons are moved forwardly through said machine; a carrier longitudinally reciprocatably mounted on said machine and including a head reciprocatable at right angles to the path of travel of the carriers; carrier actuating mechanism connected to said conveyor in timed relationship in a manner to move said carrier rearwardly to a predetermined position relative to a pair of successive cartons on said conveyor and to move said carrier forwardly with and at the same speed as said conveyor for a predetermined distance; pressure members mounted on said head to deflect and press the cut ends of tape against the ends of adjacent cartons; and additional spaced pressure members mounted on said carrier in positions to continuously engage tape applied to the tops of the adjacent end portions of said pair of successive cartons at all times that said carrier is in said predetermined position and throughout the forward movement of said carrier.

2,653,728
DRIVE SEAL RETAINER
William H. Manning, Birmingham, and Kenneth L. Hulsing, Plymouth, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 28, 1948, Serial No. 41,128
1 Claim. (Cl. 220—24.5)



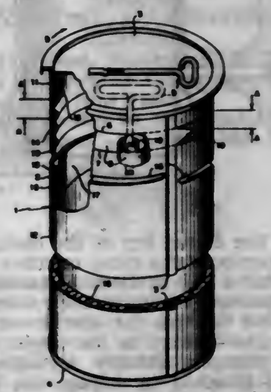
The combination of a member having a smooth cylindrical passage and a closure therein, said closure consisting of a disk normally flat and normally of greater diameter than the passage and of elastic material having sufficient flexibility to enable its being dished by application of opposing forces to its central and peripheral portions for insertion into operative position in the passage, and having sufficient stiffness to effect it s retention therein by frictional engagement of its peripheral edges with the walls of the passage upon relieving said forces, and a connector extending in fluid-tight relation through the center of the disk, said connector having integral inwardly and outwardly projecting end portions having parallel shoulders abutting opposite sides of the disk, said outwardly projecting portion being externally threaded.

2,653,729
PRESSURE RESPONSIVE COVER FOR CONTAINERS
Joseph Richter, Fairlawn, N. J., assignor to the United States of America as represented by the Secretary of the Army
Application June 19, 1951, Serial No. 232,437
5 Claims. (Cl. 220—44)
(Granted under Title 35, U. S. Code (1952), sec. 266)



2. A combination pressure relief valve and sealing means for a container having an opening comprising, diametrically opposed lugs mounted on said container about said opening, a spider engaging said lugs for removably supporting said sealing means in said opening, said spider having a central internally threaded bore, a screw in said bore having a tapered end extending below said spider and having a handle secured to its upper end adapted to be turned to apply a sealing force to said sealing means, a sleeve concentric about the tapered end of said screw and slidable relative thereto, said sleeve having an upper radially elongated flange, a lower radially shorter flange and a pair of diametrically opposed radial slots adjacent said lower flange, said sealing means comprising a frusto-conical dish-shaped member adapted to peripherally engage said container about said opening and having a central aperture to peripherally engage the lower side of said upper flange, a gasketed resilient diaphragm partly secured to the under side of said dish-shaped member and forming with the frusto-conical portion of said sleeve and said upper flange a frusto-conical space, a pair of detent balls received in said radial slots movable from a first inward position to abut the taper of said screw to lock said sleeve against sliding, to an outward position to release said sleeve for upward sliding movement, a split ring concentrically disposed about said detent balls and lying on said lower flange adapted to yieldingly retain said balls in abutting engagement with the taper of said screw, a frusto-conical collar having its upper end slidable engaging said split ring and its lower end turned radially outwardly and secured to the upper surface of said resilient diaphragm, and a helical spring concentric about said collar having its upper end abutting said upper flange and its lower end abutting the radially outwardly turned end of said collar, whereby a rise in pressure in said container above a predetermined amount urges said resilient diaphragm and said collar upwardly against the bias of said spring to permit expansion of said split ring to thereby release said balls for outward movement and said sleeve and sealing means for upward movement to dissipate the pressure in said container.

2,653,730
TUBULAR CONTAINER AND PRESSURE TIGHT CLOSURE
John C. A. Fitch, Bloomfield, N. J., assignor to Standard Container, Inc., Rockaway, N. J., a corporation of New Jersey
Application February 17, 1953, Serial No. 337,262
1 Claim. (Cl. 220—54)

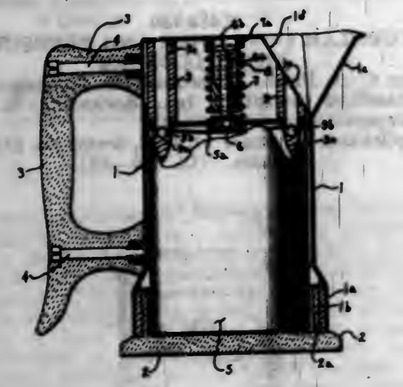


A tear strip can having a pressure-tight adjustable closure device which comprises a closed tubular metallic container; a tear strip scribed about said container dividing the container into an upper section and a lower section; a cylindrical sleeve affixed to the inner side of the upper section of said tubular container extending downwardly therein and terminating in a helically corrugated portion extending below the upper scribed edge of the tear strip; an annular rubber gasket retained tightly against the tubular wall of the lower section of the container and positioned a distance below the lower edge of the corrugated portion of said sleeve less than the width of the tear strip; and a helically corrugated portion on the side wall of the lower section of said tubular container adapted to engage with the corrugated portion of the sleeve affixed to the upper section of the container when the tear strip is removed and the upper section is rotatably displaced downwardly into the lower section thereby resealing the container.

2,653,731
CAN OPENING AND DISPENSING CONTAINER
Harry B. Seltzinger, Elmira, N. Y.
Application December 16, 1947, Serial No. 791,966
1 Claim. (Cl. 222—86)

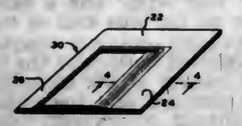
A can opening and dispensing container, comprising a casing having an open bottom and a closed top and adapted to enclose a can; a handle secured to the side of the casing; a pouring spout at the side opposite from the handle embracing an inclined indentation in the casing; downwardly extending tubular members in the top of the casing having cutters at their lower

ends adapted to pierce the upper surface of the can, one member being disposed below the said indentation; means for forcing the can upwardly within the casing against said cutters; said members being hollow above the cutters and having holes adjacent their lower ends communicating with the interiors of the members to provide communication between the interiors of the members and the interior of the can; and the member having a breather vent therein to admit air



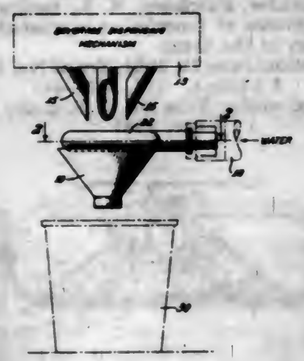
from below the closed top of the casing into the can; said interior of the other member communicating through a hole in the indentation with said spout; and plunger means in the casing normally urging the can towards the open lower end comprising a guide bracket in the upper end of the casing; a plunger slidably mounted in said bracket and adapted to engage the top of the can; spring means disposed between the bracket and plunger for yieldably urging the plunger toward the can; and means for limiting the outward movement of the plunger.

2,653,732
SINGLE USE CONTAINER HAVING A SEALED PASSAGE ADAPTED TO BE UNSEALED UPON APPLICATION OF STRESS
Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application February 5, 1949, Serial No. 74,791
10 Claims. (Cl. 222—107)



7. As a new product, a single use, disposable container having a liquid-containing cavity extending substantially the length thereof and holding a liquid for spreading directly from said container in a thin layer, said container having a sealed liquid-releasing passage along one edge thereof paralleling said cavity, said passage comprising longitudinal marginal portions of the container walls bonded together in flat, face-to-face relation by a continuous film of adhesive material interlaid between the bonded marginal portions over the entire area of the bond, said film of adhesive material covering a portion only of the inner surface of the container walls, marginal portions of said container walls along two other edges of said container at opposite ends of said liquid-releasing passage being adhesively secured together in face-to-face relation, the seals at said two other edges being appreciably stronger than the seal at said passage and extending transversely of and connecting with the seal at said passage so that when the walls of the container are squeezed together in the direction of said passage the seal at said passage ruptures and the seals at said two other edges prevent the discharge of liquid except through said passage.

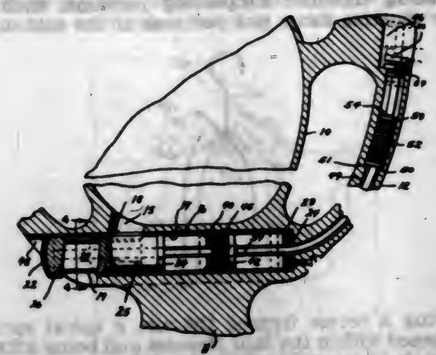
2,653,733
MIXING FUNNEL FOR BEVERAGE VENDING MACHINES
Lloyd K. Rudd, Newtown Square, and Kheren Cyrus Melikian, Philadelphia, Pa.
Application June 2, 1950, Serial No. 165,634
3 Claims. (Cl. 222—145)



1. The combination of a beverage-dispensing mechanism having a water-dispensing passage and a mixing funnel for blending water with at least one other fluid for effecting a potable-mixture, fluid-dispensing outlet means disposed for directing flow into said funnel at the top thereof, said funnel having port means adjacent an upper rim thereof, said port means being disposed to direct water flow against the interior wall of said funnel and said water passage communicating with said port means, whereby the interior of said funnel may be water-cleansed subsequent to dispensing a beverage fluid, said mechanism having means for dispensing water subsequent to dispensing other fluid into said funnel, whereby the interior wall of said funnel is cleansed of residue of said other fluid.

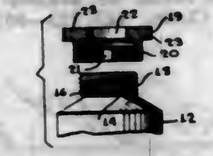
2,653,734
AUTOMATIC SUGAR BOWL
Curtis B. Stoker, Shreveport, La.
Application August 1, 1951, Serial No. 239,751
4 Claims. (Cl. 222—334)

1. An automatic sugar bowl comprising a container for sugar having a bottom outlet and a recess communicating with the outlet, a hollow handle forming a continuation of the recess, a tube in the recess having a top port registering with the outlet and a bottom discharge port axially displaced from the top port, a plunger slidably mounted in the tube having a measuring chamber open at top and bottom movable between said ports for receiving and discharging sugar, a thrust rod fixed at one end to said plunger and slidable through said tube and hollow handle, means to manually move said thrust rod in one direction to move said plunger to a sugar discharging position, a spring in said tube and operatively connected to said thrust rod adjacent one end thereof so as to exert a pushing force on said thrust rod to move it in the opposite direction to move the plunger to its sugar receiving portion, and a second spring in said handle and



operatively connected to said thrust rod adjacent the opposite end thereof so as to exert a pulling force on said thrust rod to move it in said opposite direction.

2,653,735
DISPENSING CONTAINER WITH NONDETACHABLE THREADED CAP AND NECK, AND WITH REGISTRABLE DISPENSING APERTURES
Elwood G. Brinkman, Alameda, Calif.
Application November 14, 1950, Serial No. 195,656
1 Claim. (Cl. 222—530)



A dispensing container comprising: a hollow body portion having at one end a solid, cylindrical neck threaded externally throughout its length and formed to a reduced diameter reduced relative to that of the body portion to define a stop shoulder at the base of the neck, said neck having an elongated, narrow recess formed in its threaded surface and said recess having its length extended normally to the axis of the neck through a part of the circumference of the neck, said recess being disposed intermediate the ends of the neck with that longitudinal edge of the recess nearer the base end of the neck being spaced a substantial distance away from said base end and the other longitudinal edge of the recess spaced correspondingly from the other end of the neck, said neck having an opening extending from end to end thereof and communicating with the interior of the body portion for dispensing of the container contents through the neck, said opening being disposed diametrically opposite said recess; a thin leaf spring extending longitudinally of the recess and having one end anchored in the material of the neck at one end of the recess, the other end of the spring being free and curved outwardly from the recess, said spring being tensioned to normally bias said free end outwardly beyond the periphery of the neck along a line substantially radial of the neck; and a closure cap including an internally threaded skirt portion engageable with the threads of the neck and provided with an angular notch adapted to receive said free end of the leaf spring when the cap is threaded in the direction of the stop shoulder, said notch of the recess having an end wall disposed approximately radially of the neck to limit rotation of the cap in one direction when the leaf spring is engaged in the notch, the notch when considered in the direction of its length extending in parallelism with the axis of the neck from one end of the skirt portion to a location intermediate the ends of the skirt portion, said cap including an end wall at its other end formed with an aperture disposed diametrically opposite the notch to register with the opening of the neck in the notch-engaged position of the spring, said cap being threadable in one direction into engagement with the stop shoulder to seal said body portion, and being limited against rotation in an opposite direction by engagement of the spring against the end wall of the notch.

2,653,736
SIFTER-TOP CONTAINER HAVING A SLIDE CLOSURE
Walter J. Jamieson, Manhasset, N. Y., assignor to Walter J. Jamieson Corp., New York, N. Y., a corporation of New York
Application December 20, 1951, Serial No. 262,591
1 Claim. (Cl. 222—545)

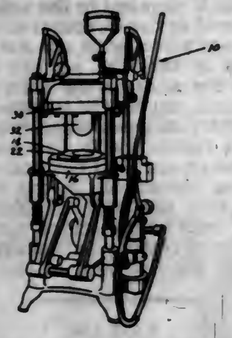


A sifter top construction for powder-containing receptacles comprising, a receptacle body covered with an adhesively-applied outer covering layer, said receptacle body having an opening in one of its walls, a ring-shaped retaining member fitted in said opening and having an annular flange overlying the wall of the receptacle around the opening, the flange being extended beneath the outer covering whereby the retaining member is retained in said opening with the covering material overlying its flange, a sifter unit fitted within the ring and exposed above the top of the same, said unit including a stationary body provided with a plurality of sifter holes, a slide movable in said body and having holes for registry or non-registry with those in the body, according to the position of the slide relatively to the body, the stationary body of the sifter unit being of such size that it extends over and completely covers the flange of the retaining member and also covers and conceals the edge portion of the part of the outer covering which extends over said flange.

2,653,737
METHOD AND MEANS FOR BLOCKING HATS
Joseph Masini, Weehawken, N. J., assignor to Joseph Lackow, conducting business under the name of Victory Hat Block Company, New York, N. Y.
Application August 28, 1950, Serial No. 181,752
1 Claim. (Cl. 223—13)

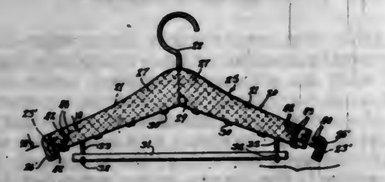
For use in a hydraulic press of pressing a hat having a crown portion and a brim portion formed with a thickened outer rim, a female metallic die having a portion to receive the crown of the hat, a portion to receive the brim of the hat, said die being formed with a groove at the outer edge of said brim receiving portion to receive said thickened rim, said female die having a portion surrounding said groove and comprising a continuation of the brim receiving portion, and a male saddle of soft compressible material comprising a portion to press the crown of the

hat into the crown receiving portion of the female die, a portion to press the brim of the hat against the brim receiving portion of the female die, a flat



portion bridging the groove for pressing the thickened outer rim of the hat into said groove, and a portion contacting the portion of the female die which surrounds said groove.

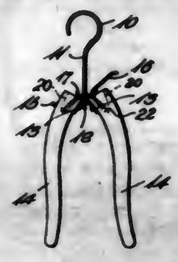
2,652,738
GARMENT HANGER
Christine Pollak, Perth Amboy, N. J.
Application February 27, 1952, Serial No. 273,580
2 Claims. (Cl. 223—93)



1. In a garment hanger, an elongated main frame for insertion into the shoulder portions of a garment, said main frame having oppositely extending downwardly and outwardly sloped arm portions for reception at their outer ends into the arm holes of the garment, a hook extended upward from said main frame intermediate of its ends, transversely extended shoulder shaping members on the outer ends of each of said arm portions, and a padded covering enclosing said main frame and said shoulder shaping members, said shoulder shaping members being removably mounted on the outer ends of said main frame, said removable mounting of said shoulder shaping members comprising spaced pegs extended from the inner faces of said shoulder shaping members, said arm portions having holes in their outer ends into which said pegs are frictionally fitted so that said shoulder shaping members can be removed by pulling said pegs out of said holes, each of said arm portions having holes in their sides for the insertion of said pegs when pulled out of said first holes to mount said shoulder shaping portions inoperatively in the plane of said main frame.

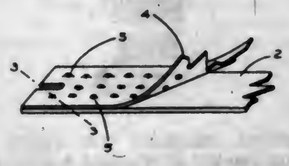
2,652,739
COAT HANGER
Marwin G. Zenk, Lewisville, Minn.
Application March 31, 1951, Serial No. 218,559
2 Claims. (Cl. 223—94)

1. A device of the character described comprising a suspending hook with a depending integral shank, said shank having a hinge means affixed on its lower end, said hinge means comprising a pair of leaves, an outwardly extending arm fixed on each of said leaves, the inner end portions of said arms being in abutting relationship when the leaves are horisontal, the said arms forming shoulder supporting portions, each of the abutting inner end portions of the said arms



having a recess formed therein, a spiral spring disposed within the said recesses and being affixed at each of its ends to a wall of the recesses, said spring normally urging the said inner ends into an end-abutting relation, and means for locking said arms in said end-abutting relation.

2,652,740
SLIP RESISTANT PANTS GUARD FOR COAT HANGERS
William F. Tufts, Atlanta, Ga., assignor to L. M. Leathers Sons, Athens, Ga.
Original application June 23, 1948, Serial No. 34,724, now Patent No. 2,590,732, dated March 25, 1952. Divided and this application February 28, 1952, Serial No. 274,606
1 Claim. (Cl. 223—93)

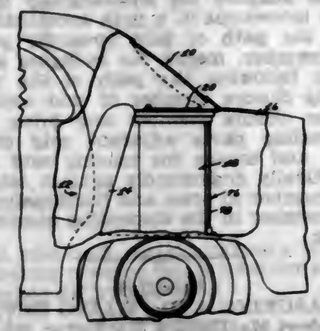


As an article of manufacture and sale, a pants guard applicable to the horizontal member of a garment hanger of the substantially triangular type, said guard comprising a hard elongated, substantially straight body of heavy paper material shaped and arranged to extend horizontally along and substantially through the length of said horizontal member, the form of said body transversly departing from a plane surface to present an upper garment-contacting surface diverging downwardly and outwardly from a central crest extending substantially throughout the length of said guard, a substantial portion of the upper garment-contacting surface of said body being provided with ruptures, the edges of which are sharp and extend upwardly of said surface to resist free longitudinal and transverse sliding of a garment hanging thereon, said ruptures extending through less than the entire thickness of said body, and the ends of said body at the crest thereof being formed with means to

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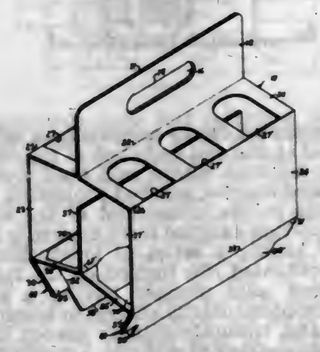
2,652,741
CLOTHES COMPARTMENT FOR AUTOMOBILES
Simeon Senk, Mullen, Nebr.
Application August 17, 1951, Serial No. 242,327
7 Claims. (Cl. 224—42.42)

1. A clothes carrier for an automobile having a back seat formed with a back rest and a ledge projecting rearwardly from the back rest comprising a rigid housing formed below the ledge and having opposing front and rear walls, said back rest being hinged to the seat, a hinged closure member formed in the front wall of the housing, said ledge forming a top wall for the



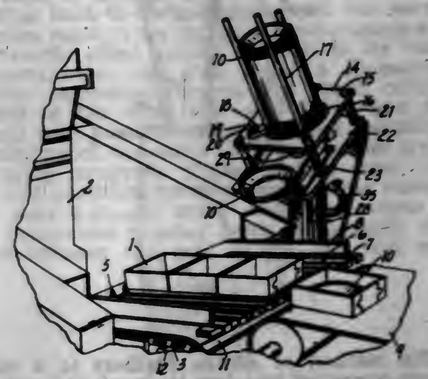
housing, a transparent plate in said ledge exposing the interior of the housing and a hanger bar arranged between the front and rear walls above the closure member to receive the hooks of garment hangers.

2,652,742
BOTTLE CARRIER
Grover C. Currie, Charlotte, N. C., assignor to Dacam Corporation, Charlotte, N. C., a corporation of North Carolina
Application June 7, 1951, Serial No. 230,325
8 Claims. (Cl. 224—45)



1. A carrier for bottles and the like formed from a single blank of material and having a handle comprising two handle portions hingedly secured to each other and being provided with coinciding hand openings therein, a top panel hingedly secured to each of said handle portions, said top panels being provided with a plurality of openings therein adapted to receive the necks of bottles positioned in said carrier, a side panel hingedly secured to each of said top panels, a bottom flap hingedly secured to each of said side panels, a partition member hingedly secured to each of said bottom flaps, means for securing together the ends of said partition members remote from said bottom flaps to provide a partition extending transversely of said carrier for separating the bottles on each side of said carrier, each of said partition members having a portion thereof foldable into superposed relation to said bottom flaps, said last-named portions each being provided with a plurality of spaced openings therein for receiving bottles positioned in said carrier and webs between said openings serving to hold said bottles in spaced relation to each other to permit bottles to be shipped in said carrier without damage, and means for securing said bottom flaps in overlapping relation to each other.

2,652,743
MACHINE FOR PLACING DISHES IN CARTONS OR CONTAINERS
Richard C. Stenger, Kalamazoo, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich.
Application January 10, 1949, Serial No. 70,625
2 Claims. (Cl. 226—3)



1. A machine for assembling dishes and cartons comprising in combination, an endless feed conveyor provided with longitudinally spaced flights, a feed way provided with longitudinal openings through which the flights project on the work stroke thereof for translating containers along the way, a magazine disposed at the side of said feed way and adapted to receive a stack of upwardly facing dishes, dish holding projections disposed at spaced intervals around the bottom of said magazine to engage and support the edges of the bottom dish of a stack of dishes in said magazine, a delivery chute disposed below said magazine and inclined toward said way to deliver dishes to containers translated on the way, said magazine being disposed to support the stack of dishes in a position normal to the chute so that the bottom of the bottom dish is supported in a plane parallel to the plane of the chute, the chute having an opening therein below the magazine, a vertically reciprocating plunger disposed to reciprocate through said opening and having a suction cup disposed thereon at an angle corresponding to the angle of the bottom of the lower most dish in the magazine, said suction cup being movable by said plunger from below said chute through said opening to the bottom dish in said magazine, said plunger having a suction passage therein opening to said cup and having a lateral port opening at one side thereof, a spring biased valve mounted at the side of the plunger in thrust engagement therewith, a suction conduit connected to said valve, said port being connected to said suction conduit through said valve when the plunger is in its actuated position to engage the suction cup with the bottom of the bottom dish of the magazine and opened to break the section connection when the plunger is in retracted position, a continuously rotatable driving shaft for said feed conveyer, an actuating cam for said plunger mounted on said driving shaft, and a retracting spring for said plunger whereby successive bottom dishes are pulled past said projections and discharged from said magazine in

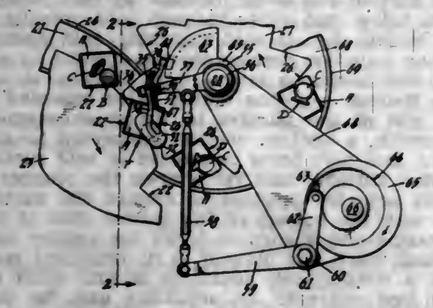
timed relation with the translation of containers by said feed conveyer and the dishes discharged into the containers.

2,653,744
FEATHER DISPENSING UNIT
Philip W. Behr, Kew Gardens, N. Y.
Application September 1, 1948, Serial No. 47,160
1 Claim. (Cl. 226—43)



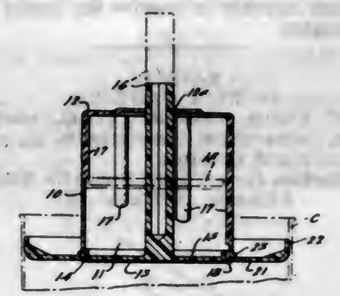
The method of adding feathers to a pillow which comprises inserting the neck of a collapsible container having a tapered body filled with feathers into an opening in the pillow, securing a retaining means attached to the container to the inside of the pillow to hold the container to the pillow, thereafter slotting the container immediately adjacent the opening to release the feathers in the neck of the collapsible container into the opening of the pillow to free the neck for further insertion of the slotted portion inside the opening, and continuing the slotting operation longitudinally down the container and forcing the slotted portion inside the pillow until the entire contents of the container are inside the pillow, and finally removing the empty and slotted container from the pillow.

2,653,745
CONTAINER CLOSING MECHANISM
Felix Huntar, Livingston, and Gustav Otto Frey, Newark, N. J., assignors to American Can Company, New York, N. Y., a corporation of New Jersey
Application December 21, 1949, Serial No. 134,283
4 Claims. (Cl. 226—81)



1. A mechanism for sealing a container by frictionally engaging sealing parts of a hinge closure member with a container wall surrounding its dispensing opening, comprising a support for the container to be sealed, means for advancing said container along said support in a predetermined path with its closure member projecting upwardly in open position, a vertically movable closing shoe also adapted for substantially horizontal swinging movement in a path substantially tangent to the path of said upwardly projecting closure member, means for swinging said shoe into and following the path of the upwardly projecting closure member of said container to hinge the closure member and bring its frictional sealing parts adjacent said dispensing opening, and means for moving said swinging shoe vertically downwardly against said hinged closure member to press and frictionally seat the closure member in the dispensing opening of the container.

2,653,746
MEASURING AND FILLING DEVICE
Robert MacDonald, Rochester, Mich.
Application December 17, 1952, Serial No. 326,430
10 Claims. (Cl. 226—125)

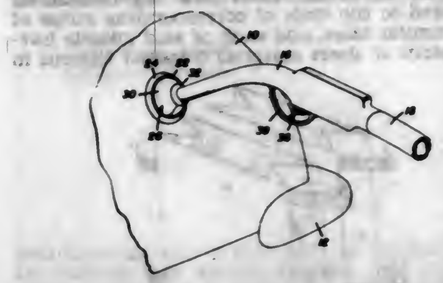


1. A dispensing device comprising a cylindrical shell closed at one end and open at the other end, a plunger movable within said shell and having a rod secured thereto, said rod projecting through an aperture in the closed end of the shell and having a portion adapted to be manually grasped, said shell having a series of longitudinally extending graduated ribs formed on the inner surface thereof, said plunger having a series of notches complementarily shaped to accommodate said ribs and circumferentially spaced to correspond to the spacing of said ribs, a circumferential space between two of said notches being greater than the space between adjacent notches thus providing a location on the circumference of said plunger at which a notch has been omitted, said plunger after rotation thereof to position said notchless location in alignment with a selected rib being movable longitudinally toward the closed end of said shell until said notchless location abuts the end of said selected rib thereby measuring a predetermined quantity of matter.

2,653,747
NOZZLE ATTACHMENT
Charles J. Maida, Dorchester, Mass.
Application February 28, 1952, Serial No. 273,950
2 Claims. (Cl. 226—129)

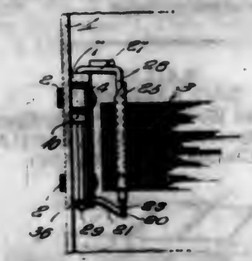
1. An attachment for the nozzle of a gasoline pump hose in the form of a shield for covering the filler opening of a gasoline tank, said shield having a neck portion adapted to resiliently engage a hose nozzle and a bell portion adapted to engage a gasoline tank filler pipe, said shield being generally C-shaped so as to provide an open

area through which the gasoline tank may be vented, said open area being adapted to face



downward, said neck portion having a thick outwardly directed annular flange whereby said neck portion resists deformation.

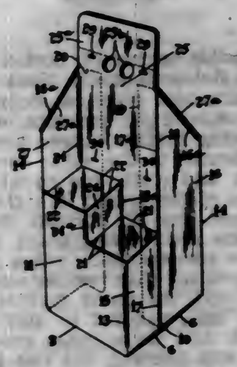
2,653,748
LOOSE-LEAF BINDING DEVICE
Roberto Maestray Langels, Barcelona, Spain
Application February 26, 1951, Serial No. 212,706
4 Claims. (Cl. 129—8)



1. A releasable loose leaf retaining device for use in combination with loose leaf binders comprising a base block formed for being mounted with its bottom face against the interior of the back of the loose leaf binder, said block having a pair of bores formed in one side thereon, said block further having a recess formed in the bottom face thereof, a pair of tubular arms pivotally connected to said base, a pair of connected U-shaped rods each having an arm thereof slidably mounted through one of said bores into said block recess, the second arm of each of said U-shaped rods being detachably mounted in one of said tubular arms, resilient means connecting said arms of said U-shaped rods within said block recess for preventing the withdrawal of said arms from within their respective bore and a stop positioned in said base recess for being contacted by said resilient means just prior to the separation of said second arms from said tubular arms and thereby tending to restrain the complete withdrawal of said second arms from said tubular arms.

2,653,749
BOTTLE CARRYING CARTON
Jack Milchin, Montreal, Quebec, Canada
Application January 26, 1949, Serial No. 72,985
In Canada October 26, 1948
1 Claim. (Cl. 229—28)

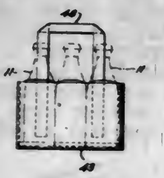
A carton formed from a single blank to provide a pair of bottom wall panels having their inner longitudinal edges integrally joined together along a fold line coextensive with said edges and portions extending beyond the outer longitudinal edges of said bottom wall panels of identical inversely arranged patterns, each of said portions comprising a side wall panel having its lower edge integrally joined to said outer edge of the bottom wall panel along a fold line paralleling the first mentioned fold line and constituting the outer side wall of a bottle receiving compartment whose bottom wall is formed by the adjacent bottom wall panel, a pair of end wall panels closing the opposing ends of said compartment, said end wall panels having their outer vertical edges integrally joined to and extending rearwardly from the adjacent vertical side edges of said side wall panel along vertical fold lines, a partition-forming panel secured in abutting back-to-back relation with the corresponding panel of the opposing compartment and in inwardly offset spaced relation to its compartment outer side wall panel, a connecting member extending between the upper central portion of the outer side wall panel and the central wall portion of the adjacent partition-forming panel, the ends of said connecting member being integrally joined to said outer side wall and partition-forming panels along vertical fold lines with the upper and lower edges of said connecting member being horizontally disposed between the said panels, one end wall



panel of each compartment being of a length to extend vertically from the lower edge of the connected outer side wall panel to a point a substantial distance above said outer side wall panel, an end wall reinforcing panel extending between the adjacent side edge of said partition-forming panel and the outer edge of that portion of said first end wall panel extending above the outer side wall, said reinforcing panel being joined to said partition-forming panel and to said end wall panel extension along vertical fold lines and being disposed in back-to-back relation with said end wall panel extension, a full-length extension flap integrally joined to the inner edge of said first mentioned end wall along a vertical fold line, said flap being folded to lie between adjacent side portions of said back-to-back partition-forming panels of each compartment, the remaining end wall panel of each compartment being of a full length equal to at least the length of the adjacent vertical edge portion of the outer side wall panel to which it is integrally connected, said remaining end wall having its inner side edge disposed adjacent the inner side edge of the first mentioned end wall of the opposing compartment and a second full length extension flap integrally joined in its upper section to the adjacent edge of the corresponding partition-forming panel and in its lower section to the inner edge of said remaining end wall panel along a vertical fold line, said second mentioned flap being folded along its

entire length to lie along its entire length in face-to-face relation with said first mentioned extension flap of the opposing compartment and with its upper portion between adjacent side portions of said back-to-back partition-forming panels, and means for securing said partition-forming panels in back-to-back relation and said face-to-face flaps between said partition-forming panels when the carton is assembled so that the said inner vertical edges of adjacent end wall panels of compartment are disposed in abutting engagement.

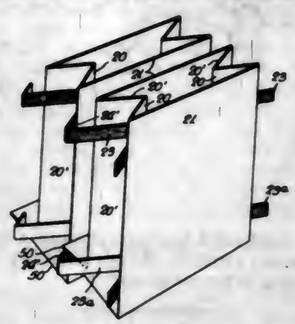
2,653,750
CARRIER FOR BOTTLES AND THE LIKE
Oscar L. Vines, New York, N. Y.
Application February 26, 1949, Serial No. 78,498
6 Claims. (Cl. 229—28)



1. A collapsible carrier for bottles and the like comprising a flat rectangular blank scored along one center line and along a second and third line equally spaced on opposite sides thereof; the blank being further scored along a fourth line perpendicular to the other center line and along a fifth and sixth line equally spaced on opposite sides of the fourth line, the fourth line having at least one slit formed therealong intermediate the second and third lines respectively and the corresponding edges of the blank, the slits bifurcating into two outwardly directed slits at each end, the blank further having two outer scored lines parallel to and on one side of the fourth and three outer scored lines on the opposite side thereof, the two innermost of the outer scored lines on each side being equally spaced from the fourth and the perpendicular distance between the fourth and the edge of the blank on the side of the two outer lines being equal to the perpendicular distance from the fourth line to the outermost of the outer lines on the side having the three lines; the blank being folded over the fifth and sixth lines, means securing together the superposed surface portions between the innermost of the outer lines and the edges of the blank and between the inner cords of the slits and the fifth and sixth lines and between the outer ends of the slits and the edges of the blank intermediate the fifth and sixth lines, the blank being folded intermediate the slits until the portion on one side of the first center line is adjacent the other portion, means securing together the superposed surface portions between the outer ends of the slits and corresponding edges of the blank intermediate the fifth and sixth lines, and handle means secured to the folded blank.

2,653,751
CHAIN OF BAGS
Clarence W. Vogt, Norwalk, Conn.
Application January 14, 1949, Serial No. 70,911
3 Claims. (Cl. 229—53)

1. A plurality of bags each having side panels, connecting infolded gussets, and a sealed bottom portion, each gusset having a strip of sheet material disposed therein at the mouth of the bag and of greater length than the width of the gussets, said strip having free end portions extending outwardly from said bag detachably connected to the ends of corresponding strips of other similar bags, and each of said gussets having a strip of sheet material disposed therein in



the region of bottom sealed portion of said bag and of a length greater than the width of the gusset, said last mentioned strip having free end portions extending outwardly from said bag detachably connected to the ends of corresponding strips of other similar bags.

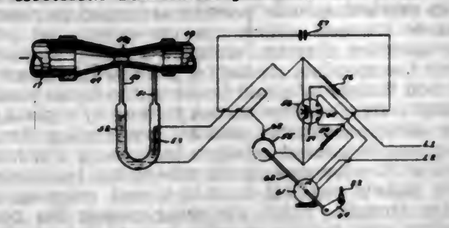
2,653,752
BAG ASSEMBLY
Clarence W. Vogt, Norwalk, Conn.
Application September 30, 1948, Serial No. 51,946
6 Claims. (Cl. 229—56)



1. A bundle of flat distensible bags, each having a pair of opposed side walls and a pair of connecting walls infolded between said first mentioned pair, the infolds of one connecting wall being spaced from the folds of the other, all of said walls being formed with an inner layer of heat-sealable material and an outer protecting layer, said protecting layer extending the full length of said side walls and being cut away adjacent to one of the ends of said infolded walls to permit direct sealing contact between opposite portions of the infolded walls, and a pair of accordion pleated tapes at opposite sides of said bundle, each having folds extending into the infolds of successive bags of said bundle and secured to said inner layer in the area where said side walls are cut away.

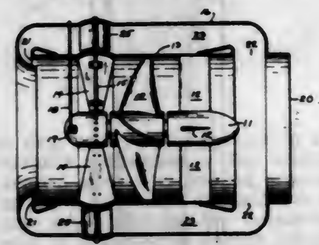
2,653,753
COMPRESSOR REGULATOR
Paul H. Davey, Kent, Ohio
Application December 19, 1946, Serial No. 717,103
2 Claims. (Cl. 230—10)

1. In apparatus comprising a gaseous fluid compressor and a prime mover for operating the same and a line for the flow of compressed gaseous fluid for use, the combination of a control member controlling the speed of said prime mover, a Venturi tube in series in said flow line, a differential pressure manometer having its legs in communication respectively with the throat and mouth of said tube, an electrically conductive liquid in the legs of said manometer, an electrical resistance partially submerged in



said liquid in one of said legs, an electric motor for moving said control member, and electrical means responsive to variations in said resistance for operating said motor, said manometer and resistance being connected to cause said motor and control member to increase compressor speed as flow rate increases through said Venturi tube.

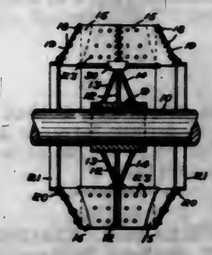
2,653,754
AXIAL FLOW FAN REGULATOR
John E. McDonald, West Newton, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 1, 1949, Serial No. 127,160
4 Claims. (Cl. 230—114)



1. A fan comprising a rotor having fan blades thereon, an inner casing wall extending around said blades and forming an axial gas passage around said rotor, an outer casing wall radially spaced from said inner wall and forming therewith an annular gas passage, a plurality of spin vanes rotatably supported in said axial gas passage upstream of said rotor about axes which extend perpendicular to the rotary axis of said rotor, said vanes being fixed to pivot rods which extend through said inner casing wall into both of said passages, and dampers in said annular passage attached to said rods for rotation therewith.

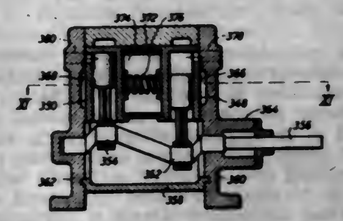
2,653,755
EROSION RESISTING FAN WHEEL
Ernest Kruhmin, Hyde Park, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 26, 1952, Serial No. 295,665
2 Claims. (Cl. 230—134)

1. A fan wheel for a double inlet centrifugal fan comprising a center plate; said wheel having gas inlet passages on opposite sides of the center plate, a plurality of fan blades around said inlet passages; each blade having two sections with main working portions extending in alignment axially outwardly from opposite sides of said center plate, and with flanged inner portions attached to said center plate behind the main working portions; said center plate having portions removed at the front sides of said blades for providing openings for permitting the oppositely flowing streams of gas moved by said blades to impinge, said center plate having slots extending from said openings past the edges of said blades nearest said passages, and protective plates having portions in said slots and having



portions extending from said slots into said openings past said blade edges for preventing abrasive particles in the gas from said passages from entering the spaces between said center plate and said blades where said main working portions join said flanged portions.

2,653,756
PLUNGER PUMP
Niels Børge Tveden, Copenhagen, Denmark, assignor to Dacela Maskinfabrik A/S, Copenhagen, Denmark, a corporation of Denmark
Application July 11, 1947, Serial No. 760,292
In Denmark July 27, 1946
4 Claims. (Cl. 230—175)



1. A plunger pump having at least two cylinders, of the type in which an oscillatory movement is imparted to the cylinders, consisting of a pump casing having a bore, two disc shaped cylinder bodies, each with a circumferential surface of rotation surrounding the corresponding cylinder and journalled oscillatory in said bore, each of the said cylinder bodies having one end surface in abutment against a surface at the inner side of the pump casing at one of the ends of said bore, each of said last named surfaces being provided with a recess which together with the corresponding cylinder body forms a space, said spaces being interconnected by passages in the cylinder bodies and forming together with said passages a part of a receiver, arranged inside the pump casing, for the working medium of the pump.

2,653,757
DIFFUSER FOR VENTILATING FANS
Bernard Segalman, Brooklyn, N. Y.
Application August 9, 1950, Serial No. 178,370
3 Claims. (Cl. 230—274)

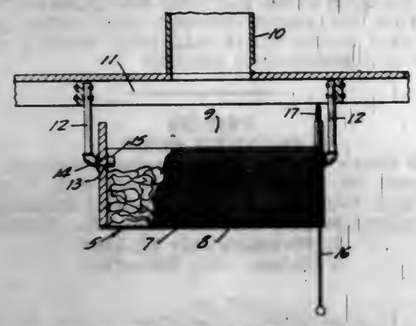
1. A diffuser assembly for an electric fan having a guard in front, comprising concentric circular rings, all flaring in the same outward direction, a supporting member having three or more radiating spring arms engaging said rings, and means for affixing the member to the middle of the guard for said fan, said rings having slots

through which said radiating spring arms extend, the spring arms being flexible so that, by the bending of the said spring arms, the diffuser
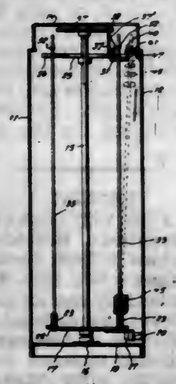


assembly can be given a form that is either flat, slightly curved in an arc form, or greatly curved into a marked curve or arc, so as to fit the shape of the guard for said fan.

2,653,758
AERATED OSCILLATORY CLOTHES HAMPER
Joseph F. Heiberg, Willmar, Minn.
Application June 25, 1951, Serial No. 233,470
4 Claims. (Cl. 232—1)



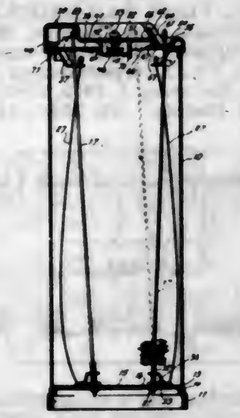
1. An automatically uprighting clothes hamper for use in conjunction with a clothes chute and comprising a foraminous container having an opening adjacent its upper medial portions adapted to be disposed when properly supported directly below such a chute and having a pair of end portions each adapted adjacent said opening to be pivotally mounted on spaced supports for pivotal movement about a horizontal axis extending longitudinally of the container and means for maintaining said opening normally directly below said chute to receive clothes therefrom into said container.

2,653,759
TICKET STACKING MACHINE
Richard I. N. Weingart, New York, N. Y.
Application April 12, 1950, Serial No. 155,483
2 Claims. (Cl. 232—7)



2. In a ticket stacking machine of the character described, an enclosed housing having a rotatable spindle assembly therein, a plurality of ticket spindles thereon, means whereby a portion of each spindle may extend through said housing, said exposed spindle portion arranged to receive tickets thereon which are pre-perforated with an aperture therein having a greater diameter than the spindles, means for permitting the entry of said tickets into said housing, the latter means comprising a narrow throat formed by a plate on the spindle assembly and an overlapping flange disposed in spaced relation thereto on the front wall of the housing, guide means for positioning said tickets parallel to said throat prior to the entry therein, ticket stripping means for positioning said tickets parallel to said throat after the passage therethrough, and said tickets inaccessible for removal except by the displacement of said flange.

2,653,760
TICKET STACKING RECEPTACLE
Richard I. N. Weingart, New York, N. Y.
Application May 4, 1951, Serial No. 224,597
9 Claims. (Cl. 232—8)

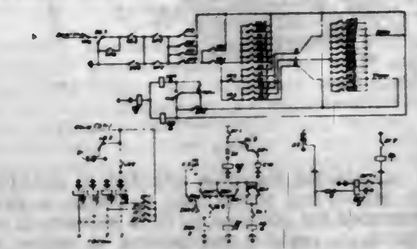


1. A closed ticket receptable provided with plural spindles which receive pre-punched tickets in impaled relation, the receptacle including a generally cylindrical housing provided with a lower wall, a fixed upper wall having spaced openings for the upper ends of the spindles, and a cover mounted for rotation relative to the upper wall and having a recessed portion on one side thereof, an opening in said recessed portion exposing a portion of the upper wall, and a slot extending radially from the opening, the spindles being mounted on the lower wall in spring biased relation, a wall section of the cover extending down to the recessed portion and having openings through which the spindles may pass as the cover is rotated, cooperating pawl and ratchet means between the cover and upper wall for locating the cover in position wherein the several spindles are successively aligned with the opening in the recessed portion.

2,653,761
ELECTROMECHANICAL CALCULATING MACHINE
John Albert Lawrence and Kenneth Malcolm Heron, London, England
Application February 24, 1948, Serial No. 10,228
In Great Britain February 26, 1947
5 Claims. (Cl. 235—61)

1. An electromechanical calculating machine for determining an amount in dependence upon

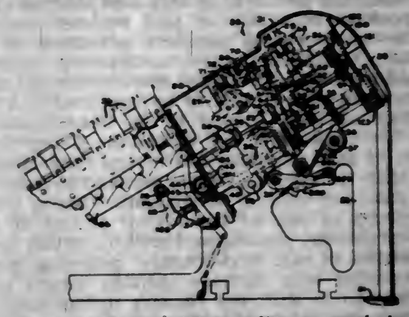
several variables each of which may have one of several values and which comprises in combination, a number of groups of electrical relays, each group characterising one of said variables, each relay in each group representing one of the possible values of the variable and each relay having at least one contact, a first single motion switch having a plurality of contacts arranged in first and second banks, first and second sets of contact arms, means for moving said first and second sets of contact arms in synchronism over said first and second banks respectively, electrical connections between the contacts in said first bank and the contacts of at least a first group of said groups of relays, further electrical connections between said second set of contact arms and the contacts of at least a second group of said groups of relays, means for selecting and energising one relay in each group, the movement of the contact arms of said first single motion switch being controlled by the energisation of the selected relay of said first group for the connection of an output circuit characteristic of variables represented by the selected relays of at



least said first and second groups to a contact arm electrically connected to the selected relay of said second group, a second single motion switch having a plurality of contacts arranged in first and second banks, the contacts in said second bank of said second switch being electrically connected together in sets to form a rectangular coordinate network, first and second sets of contact arms for said second switch and means for moving the first and second sets of contact arms of said second switch in synchronism over said first and second banks of contacts respectively of said second switch, said output circuits being electrically connected to the second set of contact arms of said second switch and the contacts of the first bank of said second switch being electrically connected to the contacts of at least the remaining groups of said groups of relays, the movement of the contact arms of said second switch being controlled by the operation of the contacts of the selected relay or relays in said remaining groups for the connection of a final output circuit characteristic of the required amount to the contact arm connected to said output circuit.

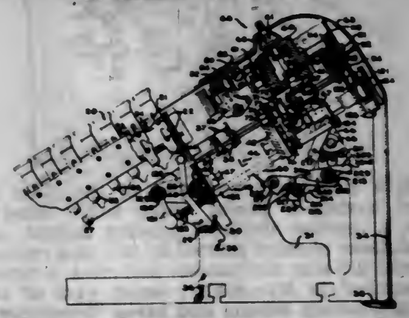
2,653,762
DIVIDEND ALIGNING MECHANISM
Grant C. Ellerbeck, Hayward, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application December 22, 1948, Serial No. 66,745
23 Claims. (Cl. 235—63)

1. A calculating machine capable of carrying out problems in division comprising an amount entering means on which the various digits of a divisor may be set; a carriage mounted for endwise shifting movement on said machine; means for shifting said carriage in either direction; a register comprised of a plurality of numeral wheels rotatably mounted on said carriage, said wheels being settable to represent the various digits of a dividend; means for successively subtracting the divisor from the dividend, adding the divisor back into the dividend, and shifting said carriage one step in a predetermined direction so as to bring the higher order wheels of said reg-



ister into active position with respect to said amount entering means; and means activated by a predetermined change in the registration in the highest order numeral wheel of said register for terminating the operation of said shifting means in said predetermined direction when the dividend and divisor are correctly aligned for the performance of a division operation.

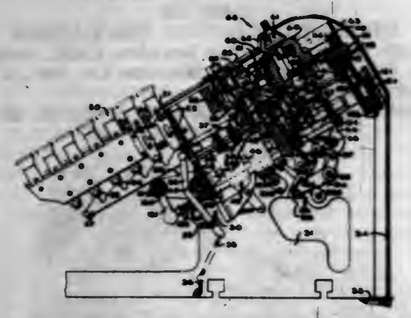
2,653,763
DIVIDEND ALIGNING MECHANISM
George W. Hopkins, San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application December 22, 1948, Serial No. 66,777
12 Claims. (Cl. 235—63)



1. In a calculating machine of the class described having a keyboard in which the digits of a divisor may be set, a shiftable carriage, a register in said carriage in which the digits of a dividend may be set, means for shifting said carriage in one direction or another with respect to said keyboard, said means being normally conditioned to shift the carriage in the direction of increasing orders of said register, and means for actuating said register either positively or negatively in accordance with the value set up in said keyboard, the combination of means for dividing an amount set in said dividend register by an amount set in said keyboard by the method of successive subtraction, said means including a manually controlled mechanism for initiating a division operation, means at the higher order end of said keyboard and actuating means for detecting the occurrence of a tens-transfer in the higher orders of said register, and a cyclically operable programming device for automatically controlling the sequential operation of said

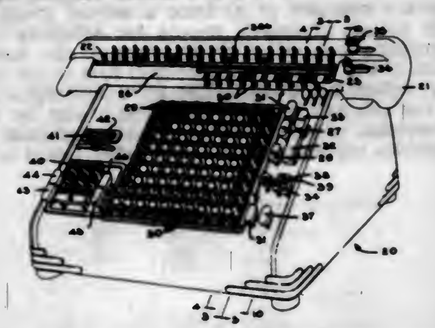
actuating means and said carriage shifting means; means for setting a dividend in said register inboard of said detecting means with no significant figure of said dividend being in a higher ordinal position than said detecting means; a settable device operable by said tens-transfer detecting means for causing an operation of said programming device to be initiated thereby causing positive actuation of said register, shifting of the carriage and negative actuation of the register, auxiliary control mechanism operable by said manually controlled mechanism for causing said settable device to be operated and said carriage shifting means to be conditioned to shift the register in the direction of decreasing orders of said register; and means controlled by said tens-transfer detecting means for disabling said auxiliary control mechanism when a transfer occurs in one of the higher orders of said register thereby placing said settable device under the control of said tens-transfer detecting means and causing said carriage shifting means to be conditioned to shift the register in the direction of increasing orders of said register.

2,653,764
DIVISION ALIGNER
George W. Hopkins, San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application January 30, 1950, Serial No. 141,275
8 Claims. (Cl. 235—63)



1. In a calculating machine of the class described having a plural order value entering means, a register shiftable relative thereto, and a revolutions counter carried by the said register, a normal division mechanism including a detecting member at the higher order end of said amount entering means and being responsive to an overdraft in a predetermined higher order of said register for controlling operation of the machine in cycles including respectively an addition operation, a register shift to the left and initiation of a subtraction operation in the next lower order of the register, means for entering the dividend in said register inboard of said detecting member with no significant dividend figure in an order to the left of said detecting member, and means for setting the divisor in said value entering means, in combination with an auxiliary mechanism responsive to tens-transfers within the inboard orders of the machine for modifying the control exercised by the said normal division mechanism in such a manner as to cause register shifting to the right and entering of a substantial portion of the quotient into the revolutions counter while automatically bringing the said register into a predetermined alignment with the said value entering means, power operated means for actuating the said auxiliary mechanism, and means responsive to operation of said detecting member during register shifting to the right for disabling said power operated means and stopping carriage shifting to the right when said predetermined alignment has been effected, and for maintaining said power operated means disabled during the ensuing automatic division operation.

2,653,765
DIVIDEND ALIGNING MECHANISM
Anthony B. Machado, San Leandro, and Frank J. Prueliage, Oakland, Calif., assignors to Friden Calculating Machine Co., Inc., a corporation of California
Application December 22, 1948, Serial No. 66,688
27 Claims. (Cl. 235—63)



1. A calculating machine adapted to perform division operations comprising a frame, a carriage mounted for endwise shifting movement on said frame, a register comprising a series of ordinally arranged numeral wheels mounted on said carriage, said wheels being settable to represent the various digits of a dividend, a value indexing means mounted in said frame, an amount entering means mounted on said frame for entering a value set in the indexing means into said register, drive means including a right shift drive and a left shift drive for shifting said carriage in either direction across said frame, manually controlled means for initiating a division operation, division program means operable in response to operation of said initiating means and operative to control operation of said amount entering means and said drive means so as to cause a predetermined sequence of operation including subtraction of the divisor from said register to an overdraft and intermittent operation of said left shift drive to shift said carriage to the left in each ordinal series of operations, means cooperating with said intiating means for temporarily disabling said left shift drive and enabling the right drive and for operating said right shift drive in a predetermined cyclic sequence, means for latching said last-mentioned means in operative position, and latch releasing means operated by shift of said carriage to a predetermined right-hand position for unlatching said latch and thereby enabling said division control means to control shifting of said carriage to the left.

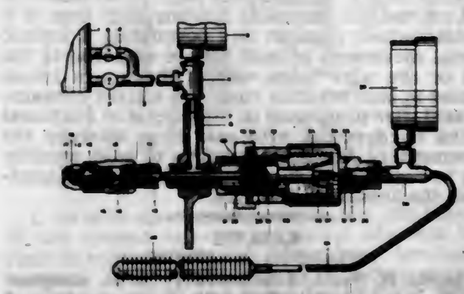
2,653,766
TENS-TRANSFER MECHANISM OF THE DIFFERENTIAL TYPE
Riccardo Buzzi, Milan, Italy, assignor to Italo Rizzieri
Application February 13, 1951, Serial No. 210,718
In Italy February 25, 1950
6 Claims. (Cl. 235—136)

1. A register for use in an adding or calculating machine having actuating means for transferring numerical values from a setting mechanism into a register, said register comprising in combination: a series of denominational order elements, each of said denominational order elements including a rotatable register wheel, said register wheel having numerals from 0 to 9 at its circumference and having a first internal sun gear, a rotatable carrier coaxial with said register wheel, a coupling member rotatably mounted on said carrier, said coupling member having a second internal sun gear, a transmission gear arranged for operative engagement with the actating means of the adding or calculating machine and rigidly connected with said coupling member, a first planetary pinion rotatably mounted on said carrier and in mesh with said first sun gear of the register wheel, a second planetary pinion



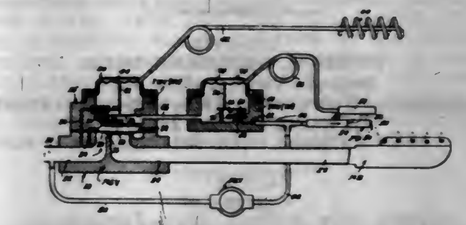
rotatably mounted on said carrier, said second planetary pinion being in mesh with said first planetary pinion and with said second sun gear of the coupling member, a rotatable tens-transfer gear rigidly connected with said carrier, a rotatable tens-transfer pinion in mesh with said tens-transfer gear, and tens-transfer actuating means including a first means and a second means cooperating with each other, said first means being connected with said tens-transfer pinion, and said second means being connected with the register wheel of the next lower order and being arranged for actuating said first means upon a passage of said last mentioned register wheel from its 9-position into its 0-position for causing an advance of the first mentioned register wheel from one numeral position into the next higher numeral position.

2,653,767
OIL BURNER
Willard C. Gillham and Andrew T. Hendrix, Knoxville, Tenn., assignors to Tennessee Valley Authority, a corporation of the United States
Application May 25, 1951, Serial No. 228,247
2 Claims. (Cl. 236—1)
(Granted under Title 35, U. S. Code (1952), sec. 266)



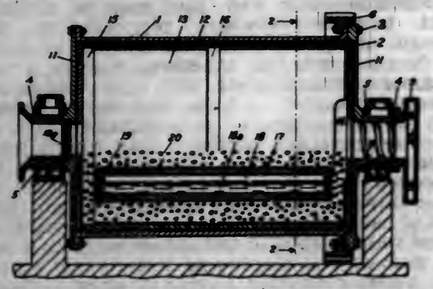
1. A burner of the class described which comprises in combination a burner body having a passage for liquid fuel therethrough; adjustable means for continuously feeding liquid fuel into said passage at selected constant pressure; a nozzle adapted to atomize liquid fuel disposed upon said burner body in communication with said passage; a longitudinally movable control rod disposed in said nozzle to close the nozzle when advanced and to open the nozzle when retracted; a housing attached to said burner body in communication with said passage; a fluid-tight pressure-responsive reciprocating diaphragm disposed within said housing to divide the housing into two chambers, namely, a first chamber communicating with said passage and a second chamber; a bulb, disposed in contact with an atmosphere to be maintained at a selected temperature, partially filled with a liquid boiling at a temperature a few degrees below the temperature to be maintained; a conduit for vapor disposed in communication with an upper part of said bulb and with said second chamber; a first rod attached to and extending from a central part of said diaphragm toward said control rod; a spring housing, having an opening therethrough, attached to and carried by an end of said first rod opposite to said diaphragm; a coil spring disposed within said spring housing; a second rod having one end slideably disposed through said opening and the other end attached to said control rod; and a head member on said second rod within said spring housing in position to receive thrust from said coil spring when said diaphragm is advanced and to receive tension from said spring housing when said diaphragm is retracted.

2,653,768
GAS BURNER CONTROL
Ralph S. Penn, Goshen, Ind., assignor to Penn Controls, Inc., Goshen, Ind., a corporation of Indiana
Application April 28, 1951, Serial No. 223,561
3 Claims. (Cl. 236—20)



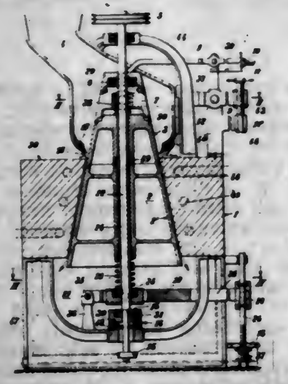
3. In a gas burner control, a main gas valve having a valve seat and a valve disc, a gas pressure responsive diaphragm for opening and closing said valve disc relative to said valve seat, said main gas valve being provided to supply gas to a main burner, a diaphragm chamber constantly receiving gas from a gas supply line, a pilot line, a three-way valve having a common connection to said pilot line and selective connections to the gas supply line and to said diaphragm chamber, said selective connection being normally in position to receive gas from said diaphragm chamber and being temperature responsive to the space being heated by said main burner to assume its opposite position, a thermal responsive valve in said pilot line, a pilot burner receiving gas from said pilot line and said thermal responsive valve, said last valve being normally closed and having a temperature sensing element adjacent said pilot burner for opening said thermal responsive valve whenever the pilot burner is lit and closing it when the pilot burner is out, and a manual light valve for supplying gas to said pilot burner independent of said main gas valve.

2,653,769
ROTARY WEIGHT-IMPACT CRUSHING MILL
Newton L. Hall, Long Beach, Calif.
Application August 22, 1950, Serial No. 180,752
3 Claims. (Cl. 241—137)



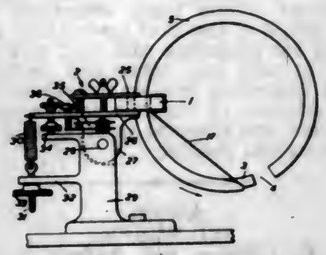
3. A horizontal rotary mill comprising: a cylindrical casing mounted for rotation about its longitudinal axis; a wall within the casing lying substantially in a diametral plane and extending across the full diametral width of the casing and longitudinally for a major portion of the length of the casing to divide the interior thereof into two substantially semi-cylindrical compartments; said wall being provided with an opening intermediate its ends and extending across the full diametral width of the casing to provide for free passage of material in divided condition by gravity through said opening from each compartment to the other upon rotation of the casing; and a single major load-weight disposed in each of said compartments and free to move therein upon rotation of the casing, each of said load-weights extending longitudinally for a greater portion of the length of the casing and extending across said opening and projecting beyond the position of said opening toward each end of the casing so as to be retained in its respective compartment.

2,653,770
CONICAL GRINDING MILL
Orlando Vicci, Tufillo, Italy
Application February 20, 1950, Serial No. 145,191
In Italy February 26, 1949
5 Claims. (Cl. 241—162)



1. A conical mill for grinding grains and feed comprising in combination a frame, a stationary grinding cone supported on said frame, a shaft rotatably journaled in said frame and centered with respect to said stationary cone, a grinding cone movable in a vertical direction and formed of two portions, the lower of said portions being keyed on said shaft and rotatably mounted in said stationary grinding cone, the upper portion of said grinding cone projecting out of said stationary grinding cone and being mounted idle on said shaft, said upper portion being adapted to rotate together with said lower portion or to remain stationary during the rotation thereof, a hopper movable in vertical direction surrounding said upper portion of said movable grinding cone, jaws on the lower edge of said hopper to effect, in cooperation with said upper portion, a first breakage of the material to be ground, a friction clutch keyed on said shaft, a head on said friction clutch which follows the vertical motion of the clutch and remains stationary during rotation thereof, said clutch being adapted to rotate said upper portion together with the lower portion of the movable cone when engaged with the former, means for lifting the movable grinding cone in respect to the stationary grinding cone to vary the dimensions of the space between said movable and said stationary grinding cone and means for lifting said hopper in respect to the upper portion of the movable cone for permitting material contained in the hopper to fall into the said space between the said lower part of the movable grinding cone and the said stationary grinding cone.

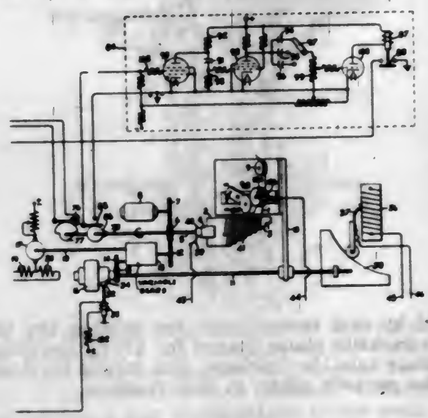
2,653,771
ELECTRIC COIL WINDING MACHINE
Frank Brand Turner, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application May 8, 1948, Serial No. 25,865
In Great Britain June 13, 1947
3 Claims. (Cl. 242—4)



1. A toroidal coil winding machine having a winding ring rotatable in a circular path through an annular core for winding turns of wire on to said core comprising a carrier supporting said core, a pivotal mounting for said carried for tilting said core in the direction of rotation of said winding ring, a resilient link member attached to said carried for normally holding said core in a predetermined position and permitting a limited pivotal movement of said core in response to the pull of the wire being wound thereon, a recess formed in said winding ring, and a spool containing said wire positioned in said recess in frictional sliding engagement with said ring, whereby the movement of the spool relative to said winding ring in response to the pull of wire further minimizes the tension in the wire.

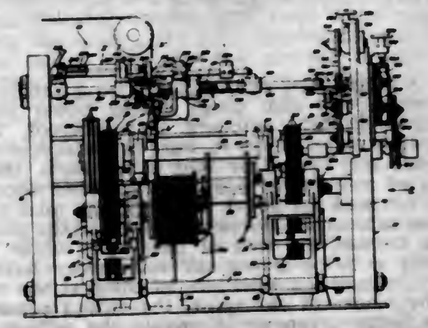
2,653,772
WINDING MACHINE
Benjamin B. Scott, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 22, 1949, Serial No. 106,295
12 Claims. (Cl. 242—9)

1. A resistance winding machine comprising driving means for turning a resistance support, means for feeding a wire to said support, a driving connection including a variable speed gear between said driving means and said feeding means for moving said feeding means at predetermined adjustable speeds to feed the wire to said support in a predetermined spaced turn relation, an incremental turn-spacing adjustment device included in said driving connection for effecting an additional turn spacing movement



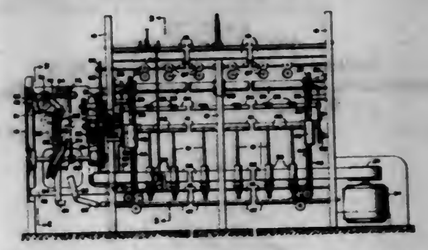
of said feeding means, means responsive to a predetermined difference between the resistance wound on the support and a desired resistance up to that point for operating said incremental adjustment device for immediate turn spacing adjustment, and means responsive to a predetermined greater difference between said resistances for operating said variable speed gear to vary the speed of said wire feeding means for turn spacing adjustment.

2,653,773
WIRE-SPOOLING APPARATUS
Benjamin H. Davis, Neank, Conn., assignor to The Standard Machinery Company, Mystic, Conn., a corporation of Connecticut
Application July 13, 1951, Serial No. 236,638
9 Claims. (Cl. 242—25)



1. In wire-spooling apparatus, the combination of two spaced belt-drives having adjacent belt-runs in substantially the same plane; two spaced carriers, each carrier having a rotary mandrel carrying a pulley and being adapted for removably carrying a spool, said carriers being movable to and from winding positions in which their mandrels are in substantial axial alignment and their pulleys are in driving engagement with said belt-runs, respectively; a rotary shaft extending substantially parallel to the mandrels on said carriers; a guide-unit comprising an externally-threaded sleeve splined to and axially slidable on said shaft and a wire-guide threadedly received by said sleeve and held against rotation therewith so as to be moved axially thereon on rotation of said sleeve and shaft; first means for shifting said sleeve on said shaft into two positions in which said wire-guide is in operative alignment with drums on said carriers, respectively; and other means for driving said shaft in opposite directions to cause reciprocation of said wire-guide for its widthwise traverse of the drum on either carrier.

2,653,774
MACHINE FOR MAKING YARN PACKAGES
Robert J. Bartholomew, Philadelphia, and Walter Warren Egee, Yeadon, Pa., assignors to Fletcher Works Incorporated, Philadelphia, Pa., a corporation of Pennsylvania
Application November 21, 1949, Serial No. 128,566
11 Claims. (Cl. 242—43.3)



1. In a machine for making yarn packages, a pair of spaced parallel rows of upright spindles on which yarn packages are to be made, means for rotating said spindles, a horizontally disposed longitudinally extending vertically movable ring rail for each row of spindles, a rotary ring rail supporting shaft longitudinally disposed and parallel to and above said ring rails, flexible ring rail connecting members carried by said shaft, resilient extensible members connected to said connecting members and to said ring rails, and means connected to said ring rails for alternately drawing one of said ring rails downwardly while the other is raised in timed relation.

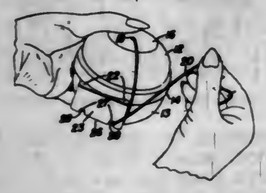
2,653,775
FILM-RETAINING DEVICE FOR REELS
Fred L. Eastman, Chicago, Ill., assignor to Compco Corporation, Chicago, Ill., a corporation of Illinois
Application February 12, 1952, Serial No. 271,252
2 Claims. (Cl. 242—74)



1. In a reel structure, a frame providing a hub and spaced discs extending outwardly from said

hub, said discs having large openings therein and said frame within said hub being recessed to provide open areas below the hub, said frame below said hub providing an enlarged spring-receiving slot and said hub having a transverse slot therein communicating with said spring slot, at least one of said discs having a slot providing communication between one of said large openings of a disc and said hub and spring slots, a spring device supported by said hub and providing a pair of spring fingers within the transverse slot of said hub, said fingers presenting contacting gripping surfaces therebetween extending at right angles to said last-mentioned slot which connects said hub slot to one of said large openings of the disc, whereby said spring fingers are exposed throughout their length by said last-mentioned slot, permitting a film end to be drawn through said slots and between the spring fingers of said spring and then laterally shifted to center the film within said spring.

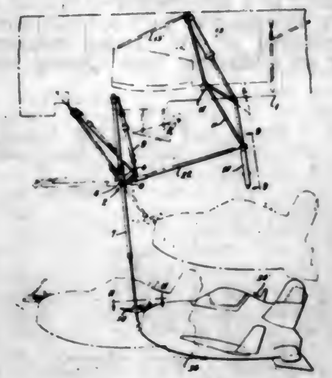
2,653,776
TWINE HOLDER
Arthur J. Rechow, Pittsford, N. Y.
Application October 12, 1949, Serial No. 120,956
2 Claims. (Cl. 242—142)



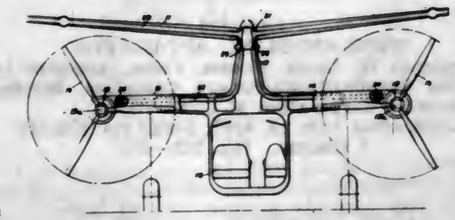
1. A hollow container for twine, thread and the like comprising two substantially cup-shaped sections made of moldable material and each having a closed end and an open end, said sections having the open ends thereof telescopically and detachably fitting together, one of said sections having an integrally associated, narrow receptacle lying substantially parallel with a side wall of its section, for holding a razor blade, said receptacle having an opening at one side thereof adjacent the open end of its section for removably receiving said blade and a notch at the other side thereof for exposing a cutting edge of said blade, the other of said sections having an integrally associated projection member arranged to cover and close the first mentioned opening of said receptacle to retain said blade therein when the container sections are assembled together, one of said sections having a twine eyelet in its closed end and the other section having an opening in its closed end for the reception of means for securing said container to a support.

2,653,777
PARASITE PLANE RETRIEVING AND TOWING MECHANISM
Herman D. Barkey, Ferguson, Mo., assignor to McDonnell Aircraft Corporation, St. Louis, Mo., a corporation of Maryland
Application November 28, 1951, Serial No. 258,588
5 Claims. (Cl. 244—2)

2. A towing and retrieving mechanism for stowing a parasite plane in the fuselage of an aircraft comprising a yoke pivotally mounted in the fuselage, a telescoping tube universally pivotally mounted in said yoke for moving the parasite plane vertically, a grab hook securable to the parasite plane and engageable with said tube, means for holding said hook on said tube, a second yoke pivoted to said fuselage, means supported by said second yoke for holding the tail of the parasite plane, means for lifting the parasite plane into the fuselage; and means for holding the parasite plane in said fuselage.

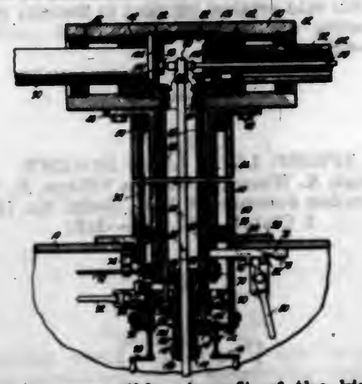


2,653,778
ROTARY-WING AIRCRAFT
James Allan Jamieson Bennett, Gerrards Cross, and Archibald Graham Forsyth, Cheam, England, assignors to The Fairey Aviation Company Limited, Hayes, England
Application November 21, 1950, Serial No. 196,766
In Great Britain September 7, 1949
10 Claims. (Cl. 244—6)



3. A rotary wing aircraft comprising a sustaining rotor, two stub wings having power units mounted at the outboard ends thereof, two propellers arranged for forward propulsion of the aircraft and driven by said power units, there being no mechanical power transmission mechanism between the power units and the rotor and no mechanical interconnection between the power units themselves, each of the power units including a turbo-driven air compressor having valved connection with jets mounted at the tips of the blades of the rotor, the valved connections being arranged to enable the output of the air compressors to be divisible in variable ratio between the jets at the tips of the blades and the power units, whereby a sufficient proportion of said output may be delivered to the jets at the tips of the rotary wings and drive the rotor for vertical flight, or the whole of said output may be delivered to the turbines to enable the propellers to be employed for forward flight, the rotor then being autorotative, or said output may be distributed in any other desired ratio between the jets at the tips of the blades and the turbines.

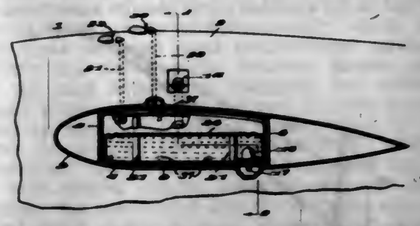
2,653,779
AIRCRAFT HAVING REVERSIBLE JET-PROPELLED ROTOR BLADE
Loren R. Terry, Webb City, Mo.
Application August 6, 1951, Serial No. 240,508
2 Claims. (Cl. 244—7)



1. In a convertible aircraft of the kind having a fuselage, a tail assembly on the fuselage, a rotatable wing mounted on the fuselage for rotation in one direction on a normally vertical axis and having a pair of elongated blades each normally transversely inclined from the plane of rotation of the wing in the same direction relative to said direction of rotation of the wing, and a pair of prime movers each adapted for exerting a propulsive force in one direction only relative to itself and mounted for rotation with the wing for rotating the latter in its said direction of rotation to provide rotary wing means of upward propulsion for the aircraft during vertical flight, structure for providing a fixed lifting plane and means of forward propulsion for the aircraft during forward flight, said structure including releasable means having parts operably coupled with the wing for holding the latter in a predetermined position against rotation on said normally vertical axis; means for each blade respectively mounting the same for rotation on its longitudinal axis separately from the other blade for varying the pitch of the blades relative to the fuselage and to each other; means having parts operably coupled with each blade respectively for varying the pitch thereof to provide a fixed lifting plane for the aircraft; means for holding one of the prime movers against movement relative to the wing to provide a means of forward propulsion for the aircraft when the wing is held in said predetermined position; means mounting the other of the prime movers for rotation on an axis substantially perpendicular to said normally vertical axis of rotation of the wing thereby adapting said other prime mover for inversion; and means having parts operably coupled with said other prime mover for inverting the latter to provide an additional means of forward propulsion for the aircraft when the wing is held in said predetermined position.

2,653,780
AIRCRAFT FUEL STORAGE SYSTEM
Francis J. Pepersack, Towson, Md., assignor to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application February 16, 1949, Serial No. 76,692
9 Claims. (Cl. 244—135)

1. Fuel supply means comprising a tank, a collapsible fuel cell within said tank, means attaching a substantial portion of the walls of said cell including the upper portion of one side wall thereof in fixed relation to the corresponding walls of said tank, the remainder of said cell walls being flexible and free to collapse inwardly of the cell against said fixed wall portion, means for



supplying fuel to and withdrawing it from said cell, a vent communicating with the interior of said cell through said fixed wall portion adjacent the top thereof, and means communicating with the interior of said tank for building up fluid pressure therein to collapse said cell.

2,653,781
PORTABLE HOD RACK
James R. Niemeier, Evansville, Ind.
Application September 18, 1950, Serial No. 185,467
5 Claims. (Cl. 248—150)



4. A hod rack comprising a pair of spaced, parallel uprights, means rigidly connecting the uprights to each other, said uprights having outwardly inclined upper end portions forming a hod engaging seat at the upper ends of the uprights, and a base for the lower ends of the uprights, said base including a bar fixed to the lower ends of the uprights and projecting outwardly at each side thereof, a frame pivoted to the bar and foldable upwardly against the uprights, and a foldable brace connecting the frame to the uprights.

2,653,782
HIGHWAY LIGHTING DEVICE AND METHOD OF MAKING SAME
Henry C. Pfaff, Jr., Summit, N. J.
Application February 25, 1950, Serial No. 146,224
3 Claims. (Cl. 248—221)

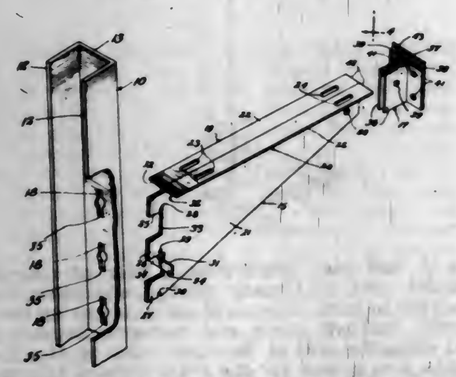
1. An arm for securing a highway lighting unit to a vertically disposed highway pole, said arm comprising a first section having an inner end to be secured to said pole so that said arm will extend laterally from said pole, said first section being substantially circular in cross section and being continuously tapered towards its outer end

with uniformly spaced parallel sides throughout the length thereof, said parallel sides being connected by rounded opposed ends and terminating in an outer end portion that is substantially circular in cross section, said arm further comprising a second section integrally connected to the



outer end of the first section, said second section being substantially circlar in cross section and of the same diameter as that of the circular outer end portion of the first section, said second section having a free outer end to which the lighting unit may be pendantly secured.

2,653,783
DISPLAY DEVICE
Donald E. Lindsay, Bala-Cynwyd, Pa., assignor to Murlin Manufacturing Co., Philadelphia, Pa., a corporation of Pennsylvania
Application May 25, 1949, Serial No. 95,259
2 Claims. (Cl. 248—243)



1. In a shelf-supporting structure incorporating a vertical support having a plurality of slots equally spaced along at least a substantial portion of the length thereof, a shelf bracket comprising a pair of sheet metal members which are mirror images of each other, each of said members comprising a web and an elongated flange extending horizontally from said vertical support along an edge of said web, the flanges being oppositely projecting and normal to said webs, each sheet metal member further having a plurality of spaced apart lugs projecting from a second edge of the web in the plane thereof, said second edge of the web being normal to the first mentioned edge of the web, said lugs being arranged in pairs with the lugs of each pair lying in abutting side-by-side relation, and each pair of lugs being proportioned to enter and engage a single one of the slots in the vertical support, the webs of said members being secured together in a plane defining a surface of said webs and said lugs, and the ends of the flanges adjacent the vertical support terminating in right edges in the plane of said flanges and in the plane containing said second edges of the webs and also containing a surface of said vertical support when the shelf bracket is in engagement with said vertical support to thereby provide for bracing of the bracket against horizontal side-to-side motion.

2,653,784
SPRING LOCK LAMP HOLDER
Joseph A. Wasselle, Queens Village, N. Y.
Application February 8, 1949, Serial No. 75,211
1 Claim. (Cl. 248—316)



A self-contained spring lock fluorescent lamp holder adapted for attachment to a lamp fixture by installation through an opening in the fixture with opposed notches comprising a top plate, a casing secured to the top plate, said casing having a depressed portion with an elongated slot therein and parallel side walls with flanges extending respectively outwardly therefrom and connected to the top plate, a pivot arm extending through the longitudinally extended slot of the depressed portion of the casing, a pivot pin extending between the side walls of the depressed portion supporting the pivot arm, said pivot arm having a curved portion thereon for receiving a fluorescent tube, said top plate having an elongated slot therein and a hole spaced therefrom, said pivot arm having an upstanding lug thereon, a tension spring extending between the upstanding lug and the hole in the top plate normally urging the pivot arm about its pivot member and its curved portion toward the fluorescent tube, said pivot arm having a shoulder thereon engageable with the top plate to limit the pivotal movement of the pivot arm toward the fluorescent tube, said pivot arm being pivotable against the action of the tension spring to release the fluorescent tube, and said top plate having means accessible through the opposed notches of the fixture adapted to secure the holder to a lamp fixture.

2,653,785
CLOTHESLINE PROP
Karl Stephen La Russa, East St. Louis, Ill.
Application August 11, 1950, Serial No. 178,953
1 Claim. (Cl. 248—353)

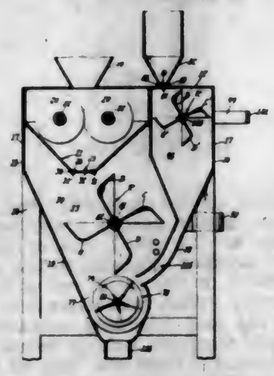
A clothesline prop including a plurality of telescopic sections, a cap threadedly mounted on the inner section, a pair of oppositely projecting angular hooks fixed on the cap and engageable with a clothesline for detachably connecting the prop thereto, and a removable cap for threading on the upper end of the outer section and engageable with the first-named cap for receiving the

sections in closed position, the second-named cap having an opening therein accommodating the hooks for suspending the closed prop from the



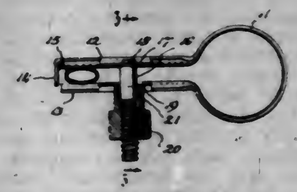
clothesline when said prop is not in use, said second-named cap being engageable beneath the clothesline for clamping same beneath the hooks.

2,653,786
WEIGHING AND MIXING DEVICE
John G. Blakey, Portland, Oreg., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application April 21, 1948, Serial No. 22,456
3 Claims. (Cl. 249—22)



3. A machine for slicing, weighing and mixing proportional amounts of fruit with preservatives, said machine comprising a food hopper for receiving whole fruit, slicing means in said hopper for slicing said whole fruit, a gate movably mounted in the bottom of said fruit hopper, a balance beam for weighing said sliced fruit, a fruit rotor pivotally mounted in one end of said balance beam, a tray beneath said gate and fixed in said fruit rotor, a food preservative hopper having a gate movably mounted in the bottom thereof, a balance beam for weighing said preservative, a preservative rotor pivotally mounted in one end of said preservative balance beam, a tray beneath said preservative hopper gate and fixed in said preservative rotor, a mixer disposed beneath said trays to receive from said trays the weighed proportional amounts of fruit and preservative, means responsive to movement of said balance beams for opening said gates to admit fruit and preservative to their respective trays and for closing said gates when proportional weighed amounts rest in said trays, means for locking said fruit and preservative rotors against rotation to hold said trays in receiving positions during the weighing of said proportional amounts of fruit and preservative, means responsive to the movement of said fruit balance beam for unlocking said rotors simultaneously when said trays have received their proportional amounts of fruit and preservative, braking means operable on said rotors for damping the rotation of said trays so that the delivery of said proportional amounts of fruit and preservative to said mixer is gentle and their mixture effected thoroughly, and a housing substantially enclosing said slicing means, gates, trays and mixer whereby the sliced fruit and preservative are protected from contamination during said slicing, weighing and mixing operations, said housing having an outlet through which the mixture is discharged.

2,653,787
PINCH CLAMP
George H. Myrick, Rochester, Minn.
Application June 19, 1947, Serial No. 755,574
2 Claims. (Cl. 251—5)



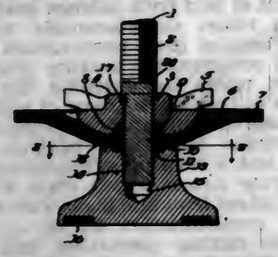
1. A pinch clamp for a rubber tube or the like comprising a C-shaped spring metal finger ring defining a nearly complete circle adapted to slide easily over the middle finger of a user, substantially parallel tube engaging jaws formed as extensions of said ring at the ends thereof and lying in the plane of said ring, said jaws, when unstressed, being spaced apart a distance slightly greater than the diameter of a tube to be clamped, one of said jaws being bent at substantially right angles at the free end thereof toward the other of said jaws to form a retaining member for preventing outward escape of an engaged tube from between said jaws, a second retaining member for preventing inward escape of a tube being clamped, said second retaining member comprising a stud attached to one of said jaws at a point spaced inwardly of the free end thereof a distance substantially greater than the diameter of a tube to be clamped, and extending at substantially right angles thereto through an opening in the other of said jaws, the free end of said stud beyond the outer face of the last said jaw being threaded to form a screw and a portion at least between the jaws and about as long as the diameter of said tube being smooth, a nut threaded to said screw having an unthreaded sleeve portion bearing against said other jaw and movable on said screw to force said jaws toward each other when tightened, said ring being spaced a substantial distance from said screw to bring said nut easily between the thumb and index finger of the hand having the middle finger extended through said ring, and at least one of said jaws being curved transversely so as to provide the last said jaw with a convex tube engaging surface.

2,653,788

CONNECTION FOR DIAPHRAGM VALVES

John E. Svabek, Jr., Chicago, Ill., assignor to Crane Co., Chicago, Ill.

Application June 15, 1949, Serial No. 99,227
1 Claim. (Cl. 251—31)



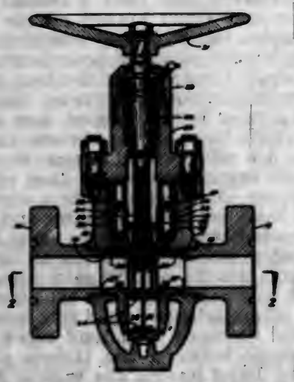
In a diaphragm valve, a diaphragm having a central aperture and a surrounding collar integral therewith around the aperture, the lower portion of the collar having spaced-apart raised surfaces, a closure member therefor, the upper surface of said closure member having corresponding spaced-apart recessed surfaces to receive said diaphragm spaced-apart surfaces with a predetermined endwise clearance therebetween thereby to provide interfitting faces, a projecting annular portion on said closure member upper surface surrounding said recessed closure member spaced-apart surfaces, a plunger member superposed on said diaphragm and having a central aperture and a lower annular relieved portion to receive the upper portion of said diaphragm collar with a predetermined endwise clearance therebetween, an annular depending portion on said plunger surrounding said plunger relieved portion, stem means extending through said plunger and diaphragm and being rigidly held relative to the closure member to draw the latter members together whereby said plunger depending portion and said closure member projecting portion are contacted to effect a fluid tight seal with said diaphragm.

2,653,789

VALVE

Robert Eichenberg, Houston, Tex., assignor to McEvoy Company, Houston, Tex., a corporation of Texas

Application January 5, 1950, Serial No. 136,985
2 Claims. (Cl. 251—63.5)



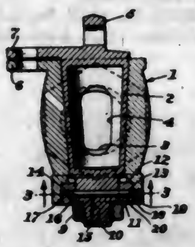
1. A gate valve including a valve body having an inlet and an outlet, plane surfaced seats in said inlet and outlet each having an opening therethrough, a pair of plane surfaced gates each having an opening therethrough, springs between said gates urging said gates against said seats, means to reciprocate said gates between a closed position in which the gates block passage through the inlet and outlet and an open position in which the gate openings are aligned with the inlet and outlet, strips on the sides of the seats to guide the gates in their reciprocation, pins on the sides of the gates, cams on the edges of the strips adapted to engage said pins and cause the gates to move toward each other against the action of said springs and away from their seats as the pins pass over the cams in their motion from closed to open position, said cams being positioned to engage said pins at the start of opening movement of said gates, the active length of said cams being equal to the distance the gates must move from closed position to cause the openings therethrough to just overlap the seat openings, said resilient means causing engagement of said plane surfaces when said pins are out of engagement with the active surfaces of said cams, whereby said plane surfaces are in contact at all times except during the initial opening movement of said valve.

2,653,790

TAMPERPROOF VALVE OR THE LIKE

Walter J. Bowan and Wallace E. Gould, Decatur, Ill., assignors to Mueller Co., Decatur, Ill., a corporation of Illinois

Application January 19, 1950, Serial No. 139,256
9 Claims. (Cl. 251—91)



1. In a device of the class described, a casing, a tapered seat in said casing, a shoulder formed in the casing at the small end of the seat, a tapered plug member rotatable in the seat, a retaining extension on the small end of the tapered plug, a retaining collar, said collar being adapted to surround the said retaining extension and to ride on the said shoulder, locking means comprising a pin extending from one side of the collar through the extension and partially into the other side of the collar, the said pin ending in a blind socket in the said other side of the collar, a wall formed on the casing and extending from the said shoulder to closely surround the said collar, the wall having a single aperture therein to permit insertion of the pin into the collar and extension, whereby access to the pin is blocked when the plug is rotated to other positions.

2,653,791

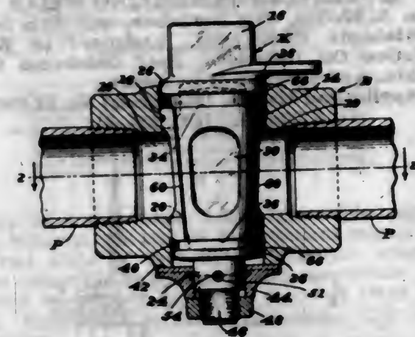
VALVE

Frank H. Mueller, Decatur, Ill., assignor to Mueller Co., Decatur, Ill., a corporation of Illinois

Application April 27, 1951, Serial No. 223,228
19 Claims. (Cl. 251—93)

1. A plug stop comprising: a body member having a flow passage extending therethrough and a circular opening extending laterally across said passage to constitute a plug seat; a valve plug rotatable in said seat and having a port

alignable with said passage, the opposed surfaces of said seat and plug having sealing engagement for their major axial extents; means defining a circumferential packing groove in one of said surfaces adjacent each end of said seat; a resilient pressure-deformable packing ring in each of said grooves, each said ring when relaxed being non-complementary to the outer side wall of its corresponding groove, axially narrower than its corresponding groove, and of sufficient



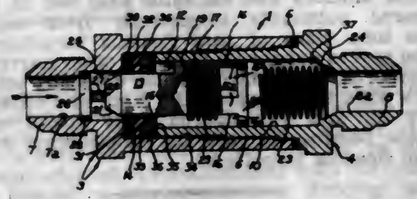
size in radial section to contact both the bottom of its corresponding groove and the other of said surfaces, said opposed surfaces being spaced apart slightly and out of contact axially outwardly of said rings; means for retaining said plug in sealing engagement with said seat; means for supplying lubricant under pressure in said grooves to deform their corresponding said rings against their outer side walls; and lubricant channel means extending between said opposed surfaces of said plug and seat and connecting said grooves to form a closed lubricant system.

2,653,792

CHECK VALVE WITH PLUG MATING A FLANGED NONMETALLIC SEALING ELEMENT

Columbus R. Sacchini, Willoughby, Ohio, assignor to The Marquette Metal Products Company, Cleveland, Ohio, a corporation of Ohio

Application November 5, 1949, Serial No. 125,676
1 Claim. (Cl. 251—122)



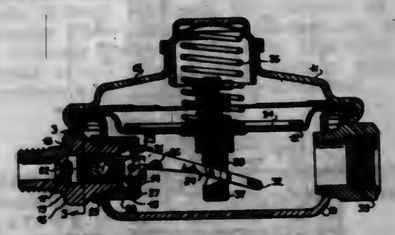
In a check valve assembly for fluid lines, a body including two relatively telescoping outer and inner tubular body members screw threaded and sealed together and respectively having end portions adapted for detachable connection with sections of a fluid line, the outer body member having an axial inlet bore for the fluid and two counterbores the larger of which, in cooperation with an inner end portion of the inner body member defines a cylindrical, check valve seal assembly receiving space, three annular members constituting such seal assembly in said space and comprising a metal base seated in the bottom of the larger counterbore, a one piece flexible elastic seal element having circular flanges relatively diverging in the normal direction of flow through the inlet bore and a metal retainer for the seal element, the base and retainer having relatively opposed axial face portions approximately complementary to respective axially directed surface portions of the seal element, and in tight engagement therewith, the inner flange of the seal element projecting inwardly toward the flow axis with respect to inner-bore-defining surface portions of the annular base and retainer and spaced relative to the metal retainer to permit outward flexing of the flange, a plug having an axially apertured main portion slidably guided by the inner body member and having a cylindrical smooth, inner-seal-flange-engaging portion with a portion of reduced cross section therebeyond toward said inlet bore, the cylindrical portion being of smaller diameter than the main portion, thereby defining with the inner body an intermediate flow passage in communication through the axially apertured main portion with an outlet in the inner body member, the base and retainer members being radially spaced from the cylindrical portion so that upon outward flexing of the inner flange a restricted flow passage is defined with the cylindrical portion, a metal stop for engagement with said reduced cross sectional end of the plug and having an annular base in the smaller counterbore against an end-defining shoulder provided thereby and having a diametral rigid bridge portion located wholly between the base of the stop and said plug end for contact with the latter, resilient means in the valve body to bias the plug toward the stop, the plug engaging the stop and said flange sealingly engaging said cylindrical portion in the valve closed position and, upon sufficient fluid pressure to outwardly flex the said flange, fluid communication is established with the outlet through the restricted, intermediate and main portion passages and, upon increased fluid pressure, the cylindrical portion is withdrawn from engagement with the seal against the bias of the spring to permit direct fluid communication between the inlet and intermediate passage.

2,653,793

PRESSURE REGULATOR

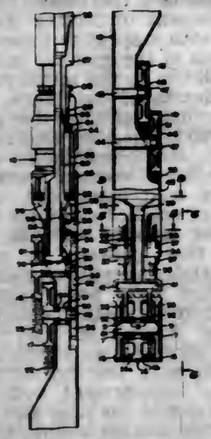
Theodore A. St. Clair, South Euclid, Ohio, assignor to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio

Application July 24, 1952, Serial No. 300,675
9 Claims. (Cl. 251—133)



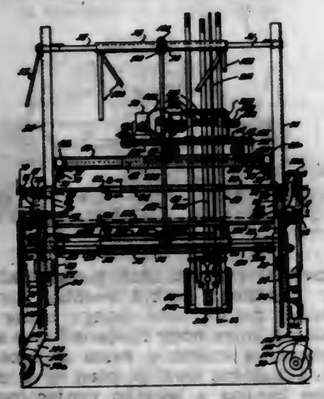
9. A poppet valve assembly comprising an internally threaded housing member formed with an internal flange, said flange being provided with a slot, a valve body threaded into said housing member, a movable valve member in said body, an actuating lever pivoted to said member, said lever having a portion projecting through said slot and a portion engaging the end wall of said body and one side of said flange, said engagement of said lever, body and flange being radially spaced from the pivot of said lever and member.

2,653,794
WELL DIGGING APPARATUS
Dorsey E. Straitiff, Beverly Hills, Calif.
Application April 25, 1949, Serial No. 89,507
14 Claims. (Cl. 255—1)



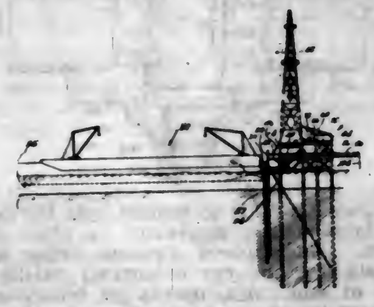
1. In a well digging device of the class described, the combination of a frame, means carried on the lower end of the frame for supporting a plurality of coaxial sprockets, gearing carried on the upper portion of the frame and adapted to be driven by a rotary drill string, first and second vertically spaced driving sprockets rotatably mounted on the frame and driven from said gearing in opposite directions, parallel vertically extending digging chains having formation-engaging teeth, one of the digging chains being trained over the first driving sprocket and one of said coaxial sprockets and a second digging chain being trained over the second driving sprocket and another of said coaxial sprockets, and torque resisting means on the frame engaging the formation to prevent rotation of the frame within the bore hole formed by the teeth.

2,653,795
EXCAVATOR
Thomas F. Reeves, Cincinnati, Ohio
Application April 24, 1950, Serial No. 157,827
5 Claims. (Cl. 255—1)



1. A digging mechanism for excavators comprising a frame, a pair of side plates fixed in said frame, separate cutting chains disposed about the periphery of each of said side plates, a pair of end plates pivoted to said side plates, separate cutting chains disposed about the periphery of each of said end plates, said end plates normally being disposed in vertical planes, means to operate said cutting chains, and means to move said end plates about their pivotal connection with said side plates to a horizontal position wherein said end plates form a bottom closure for the mechanism.

2,653,796
APPARATUS FOR DRILLING WELLS
Dean A. McGee, Otis Danielson, and Tom Seale, Oklahoma City, Okla., assignors to Kerr-McGee Oil Industries, Inc., Oklahoma City, Okla., a corporation of Delaware
Application May 20, 1948, Serial No. 28,206
6 Claims. (Cl. 255—2)

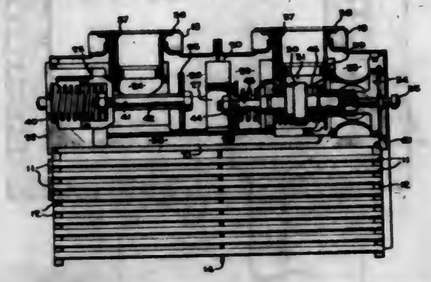


1. An oil well drilling rig adapted to be used in drilling a well in the bed of a body of open, unprotected water and comprising in combination a relatively small platform fixedly supported by said bed and carrying a portion of the drilling equipment, a long, narrow floating structure carrying the remainder of the drilling equipment and anchor means carried by said floating structure for maintaining said floating structure releasably in operative relation with said platform with one of the narrow ends of said floating structure juxtaposed to a side of said platform including two anchors adjacent said one narrow end and three anchors adjacent the other, said first two anchors engaging said bed at points spaced outwardly respectively from each of the long sides of said floating structure and outwardly beyond said one narrow end, two of said three anchors also engaging said bed at points spaced outwardly respectively from each of the long sides of said floating structure and also spaced outwardly from the other narrow end thereof and the third anchor engaging said bed at a point spaced outwardly from said other narrow end and lying approximatly with a vertical plane passing through the longitudinal axis of said floating structure.

2,653,797
SUBMERGED VALVE OIL COOLER
Raymond W. Jensen, Los Angeles, Calif., assignor to The Garrett Corporation, Los Angeles, Calif., a corporation of California
Application November 8, 1948, Serial No. 58,935
3 Claims. (Cl. 257—2)

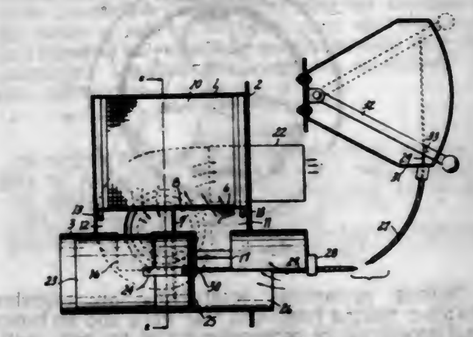
1. A viscosity regulator for congealable fluid under varying pressure and temperature comprising: a heat exchanger having a metallic shell, a fluid inlet and outlet in said shell, a core structure consisting of a plurality of thin-walled tubes for the passage of coolant therethrough and a pair of baffles for directing the fluid flow over and around said tubes, a pair of perforated end

plates in said shell supporting said tubes; and a cylindrical temperature and pressure responsive control means removably supported by said end plates within said shell, said control means having a fluid inlet and outlet; removable inserts between said shell inlet and outlet and said control



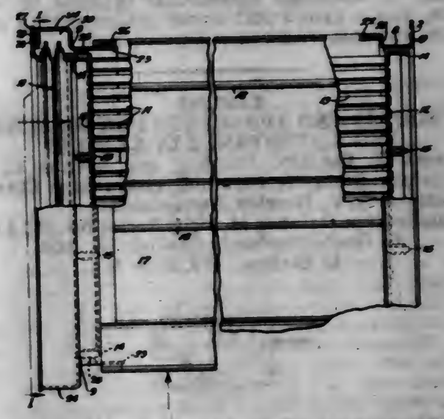
means inlet and outlet; and a removable connection between one end of said control means and an end plate of said heat exchanger whereby upon removing said inserts and connection, the control means can be bodily removed from said heat exchanger without disturbing the core structure.

2,653,798
HEATING AND VENTILATING DEVICE FOR AUTOMOTIVE VEHICLES
Joseph Baldinus, Cadillac, Mich., assignor to Kyser Heater Company, Cadillac, Mich., a corporation of Michigan
Application May 21, 1952, Serial No. 289,181
10 Claims. (Cl. 257—137)



10. A heater and ventilator for an automotive vehicle comprising a casing, a first partition dividing said casing into two compartments, an induction tube extending through one of said compartments and having an opening in one open end adapted to communicate with the space to be heated, a second partition dividing said one of said compartments into first and second chambers, said tube having openings formed therein opening into each of said chambers, a heat exchange element positioned in the other of said compartments and dividing the same into inlet and outlet sides, said first partition having an opening formed therein between said second chamber and the inlet side of said other compartment, a blower having an inlet opening communicating with said first chamber and the outlet side of said other compartment, a valve element adjustably mounted in said induction tube to selectively close the openings in said induction tube to said chambers, a closure portion on said valve element coacting with the opening in said one end of said tube whereby said valve element may be positioned to close the opening to said second chamber while said closure portion uncovers said opening in said one end of said tube, and means for selectively shifting said valve element in said induction tube.

2,653,799
HEAT EXCHANGER
James A. Stahn and Joe C. Shaw, Racine, Wis., assignors to Young Radiator Company, Racine, Wis., a corporation of Wisconsin
Application November 12, 1949, Serial No. 126,903
2 Claims. (Cl. 257—236)

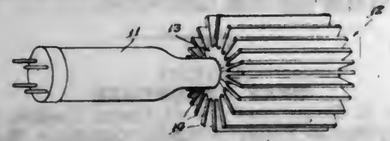


1. In a heat-exchanger of the class described, the combination of a heat-transfer core-unit comprising a battery of tubes arranged in spaced parallel relationship spanning and bonded at their ends to rectangularly shaped header plates so as to form an air-flow labyrinth around said tubes intermediate said plates, rectangularly shaped mounting members for interposing said core-unit between opposed ends of conduit sections adapted to direct heat-exchanging air flows through said tubes and said labyrinth, and a rectangularly shaped bellows connecting one of said header plates and one of said mounting-members to provide an air-sealed yielding-connection permitting a relative movement of said plate and member to accommodate the expansive and contractive forces to which said core-unit is subjected, said bellows having the perimetrical portions thereof adjacent the corners of said one header plate and mounting member materially arcuate-shaped so as to minimize the likelihood of fracture of said bellows adjacent said corners where stress is accumulated.

2,653,800
ELECTRON TUBE HEAT-DISSIPATING RADIATOR AND METHOD OF FABRICATING SAME
Nicholas Anton, Brooklyn, N. Y.
Application October 23, 1950, Serial No. 191,583
9 Claims. (Cl. 257—261)

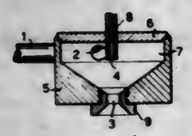
1. An electron tube comprising a unitary heat-dissipating radiator comprising a heat-conducting core structure with a central bore, and a plurality of heat-conducting plane fins in planes intersecting the axis of said bore, said core structure being formed of a plurality of core segments each having a curved inner surface forming a portion of said bore, with the totality of said inner surfaces forming the entire bore, and each having a pair of converging plane faces, means

maintaining each of said plane faces in contact throughout its entire extent with a similar plane face of an adjoining core segment, whereby said core structure is a solid bored structure built up



solely of said segments, each of said plurality of fins being integral with a respective core segment to facilitate conduction of heat to said fins, and a cylindrical anode seated within said bore and soft-soldered to said core.

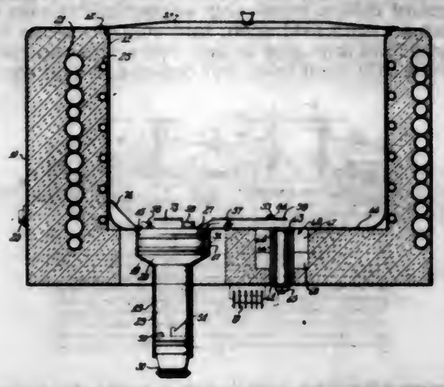
2,652,301
PROCESS AND APPARATUS FOR DISPERSING A SUBSTANCE IN A LIQUID
Freerk J. Fontein, Heerlen, and Arthur L. de Gelder, Stein, Netherlands, assignors to Stamicarbon N. V., Heerlen, Netherlands
Application October 12, 1951, Serial No. 251,118
In the Netherlands October 13, 1950
15 Claims. (Cl. 259—4)



1. In an apparatus for dispersing a substance in a liquid a number of equal rotation chambers each rotation chamber having an inner wall being a continuous surface of revolution and being provided with one centrally arranged circular discharge aperture, feed conduits for the liquid debouching tangentially into each rotation chamber on a radius larger than the radius of said discharge aperture, a suction conduit for the substance to be dispersed debouching centrally and opposite said discharge aperture in each rotation chamber, the total inlet area of said tangential feed conduits being so large in comparison with the area of said discharge aperture that liquid when pressed through said tangential feed conduits into each rotation chamber will form a strong cyclonic current therein with a hollow core in which a depression prevails, the outlet diameter of said suction conduit being so small in comparison with the diameter of said discharge aperture that the outlet of said suction conduit is within the hollow core of said cyclonic current, said rotation chambers forming a constructional unit in such a manner that the tangential feed conduits of said rotation chamber are fed through a common feed conduit.

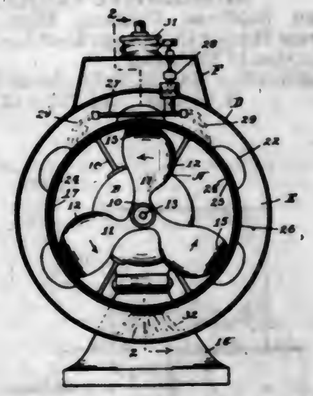
2,652,802
DISPENSER CIRCULATORY DEVICE
Carl C. Bauerlein, Mukwonago, Wis., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois
Application September 15, 1951, Serial No. 246,844
10 Claims. (Cl. 259—39)

1. In a dispenser, a tank, a dispensing and mixing valve leading from the bottom of said tank, and means circulating the fluid within said tank comprising a vibrating blade extending along a wall of said tank and spaced closely adjacent to said wall and extending in parallel relation with respect thereto and having a laterally extending agitating free end portion, an electromagnet on the outside of the wall of said tank in alignment



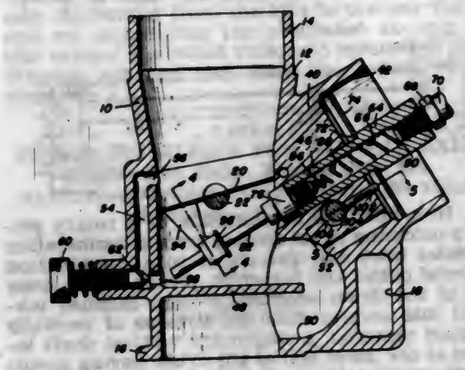
with the agitating free end portion of said blade, and means energizing said electromagnet with a pulsating current.

2,652,803
APPARATUS FOR COOLING AND HUMIDIFYING AIR
Rawlings R. Baner, Monrovia, Calif.
Application April 30, 1951, Serial No. 223,793
1 Claim. (Cl. 261—30)



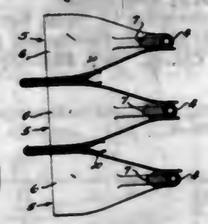
Cooling apparatus comprising an annular chamber having front and rear walls and an inner wall substantially perpendicular to the rear wall, said inner wall defining a longitudinally disposed air delivery duct, a motor driven fan in said duct for projecting a primary stream of air forwardly therethrough, a plurality of circumferentially spaced secondary-air inlet passages in said rear wall of said chamber, a corresponding plurality of circumferentially spaced secondary-air outlet passages in the inner wall of said chamber disposed radially in said duct, means for supplying cooling fluid to the interior of said chamber, and means for contacting said cooling fluid with said secondary air, said means comprising air-permeable, cooling-fluid-wetted absorbent bands covering said secondary-air outlet passages, whereby, when said fan is driven, secondary air will be drawn through said air-inlet passages into said chamber by centripetal force, therein cooled by contact with said fluid, and the thus-cooled secondary-air centripetally drawn out of the chamber through said air-outlet passages at right angles to and directly into the path of the primary stream of air in the duct to be mixed therewith.

2,652,804
FUEL METERING CONTROL FOR INJECTION CARBURETORS
Oscar R. Cedarholm, Quincy, Mich.
Application April 21, 1952, Serial No. 283,403
11 Claims. (Cl. 261—51)



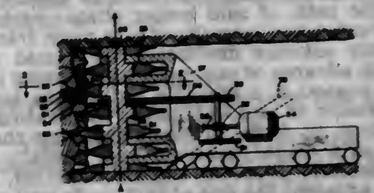
1. In an internal combustion engine, an intake manifold, a carburetor including an air intake riser communicating with said intake manifold, a throttle valve in said riser, a valve body movably mounted in said riser and adapted to be connected to a source of fuel, a casing, a movable partition in said casing connected to said valve body, passage means connecting said intake manifold and casing for actuation of said partition in response to pressure variations in said intake manifold, a valve core movable in said valve body, means on the downstream side of said throttle valve connected to the valve core for displacing the same in said valve body upon movement of said throttle valve, means carried by said riser for adjustably limiting the range of movement of said partition.

2,652,805
INTERMITTENT FUEL INJECTION VALVE
Max G. Scherberg, Vinita Terrace, Mo., assignor to McDonnell Aircraft Corporation, St. Louis, Mo., a corporation of Maryland
Application December 8, 1947, Serial No. 790,429
3 Claims. (Cl. 261—62)



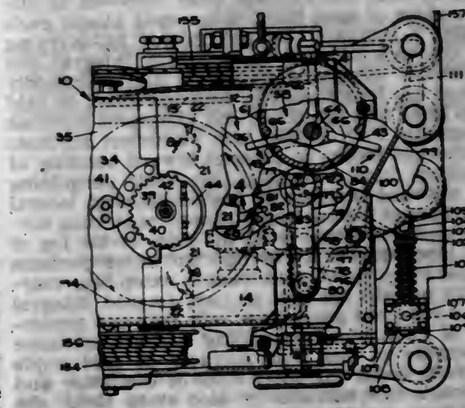
1. An air and fuel flow regulator for reaction engines comprising a plurality of fuel conducting tubes having discharge orifices on opposite sides thereof, vane spacers secured to each of said tubes and distributed uniformly therealong, means on each tube for securing said vane spacers and tube assemblies, a reed valve member disposed between adjacent vane spacers and tubes, each valve including diverging resilient legs normally adapted to abut the edges of said vane spacers and to close the orifices in the adjoining tubes; and leaf springs associated with said reed valve members for assisting the diverging legs into engagement with the fuel tubes for preventing discharge of fuel from the orifices.

2,652,806
COAL MINING MACHINE WITH ECCENTRICALLY MOUNTED DISK CUTTERS
James S. Robbins, Highland Park, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application February 1, 1949, Serial No. 73,948
2 Claims. (Cl. 262—26)



2. A mining machine, comprising a portable frame mounted to travel forward against a rock wall, a pair of driven shafts journalled on said frame and spaced apart in parallel relation to each other in a plane transverse to the path of forward travel of said frame, each of said shafts having fixed thereon a series of axially spaced eccentrics having their axes distributed angularly about the axis of the respective said shaft, a series of cutters each journalled to rotate freely on its respective one of said eccentrics, said shafts being spaced apart and having their cutters located in relatively mated sets so that the paths of the cutters on one said shaft will overlap the paths of mating cutters on the other said shaft, and driving means operatively connected to said shafts for simultaneously rotating said shafts, each said cutter comprising a disk having an annular series of teeth concentric with the axis of its respective eccentric and having an annular body wedge-shaped in radial section and positioned to enter a kerf cut by its said teeth in the rock wall to break the rock at one side of such kerf.

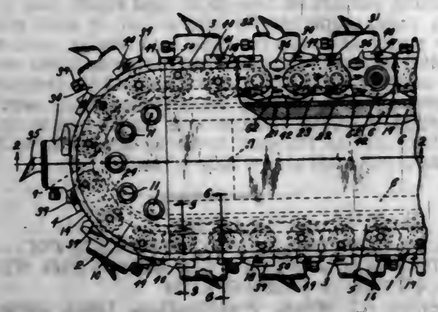
2,652,807
KERF CUTTING MINING MACHINE, INCLUDING MECHANISM FOR REMOVING KERF CUTTINGS THEREFROM
Sterling C. Moon, Worthington, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application March 18, 1949, Serial No. 82,106
2 Claims. (Cl. 262—30)



1. In a kerf cutting mining machine having a main frame and a cutter bar extending longitudinally therefrom, a drive sprocket at the rear of said cutter bar rotating on an upright axis,

an endless kerf cutter chain traveling around said cutter bar and sprocket, a kerf cuttings removing mechanism including a drum and blades reciprocating therethrough rotating on an upright axis in a direction opposite to that of said sprocket positioned rearwardly and laterally of said sprocket axis whereby said blades sweep kerf cuttings thrown from said chain as it travels around said sprocket from an area closely adjacent the path of said cutter chain, guide wall means extending laterally of said main frame for directing cuttings discharged from said cutter chain in advance of said cuttings removing mechanism toward it, a movable wall means forming an extension of said wall means cooperating with said drum to form an expansible way through which said blades force cuttings laterally from said machine adjacent the rear thereof, pivot means adjacent the end of said guide wall means mounting said movable wall means, and means resiliently resisting movement of said movable wall means away from said drum whereby said movable wall means will move to compress said cuttings and will move to accommodate varying quantities and large pieces therein.

2,653,806
CUTTER CHAIN
Leon E. Simmons, Claremont, N. H., assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application December 16, 1947, Serial No. 792,954
3 Claims. (Cl. 262—33)



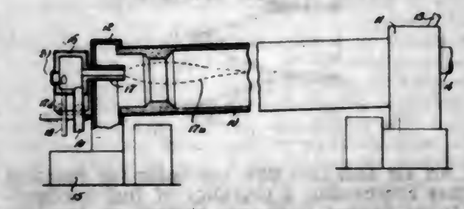
1. A cutter chain comprising a series of bit-carrying blocks and strap links pivotally connecting said blocks together, means for pivotally connecting said strap links to the end portions of the bases of said blocks, said links disposed at the outer sides of said block bases, said blocks each having a centrally located lateral bit-carrying lug, the base of each block having integral end projections extending forwardly and rearwardly of said lug longitudinally between pairs of said strap links and providing end abutment surfaces engageable with similar end abutment surfaces of adjacent blocks to prevent inward bending of the chain from a straight line while permitting free outward bending of the chain, and lateral guide flanges having inner transverse guiding surfaces and projecting from the sides of the lug of each block outwardly beyond the outer portions of said strap links, said flanges extending rearwardly of said lug and in part formed integral with a rear end projection, said rear end projection of each block extending a slight distance rearwardly of the rear surfaces of said guide flanges between the outer sides of the latter and the inner side surfaces of said strap links, the front surfaces of said guide flanges being disposed a substantial distance rearwardly of a point disposed longitudinally midway between the ends of the block.

2,653,809
KILN
Victor J. Asbe, Webster Groves, Mo., assignor to Asbe Corporation, Clayton, Mo., a corporation of Missouri
Application July 23, 1949, Serial No. 106,376
7 Claims. (Cl. 263—32)



1. In a kiln, the combination of a rotary primary calcining drum sloping from a combination material inlet and gas outlet to a combination material outlet and fuel inlet, means at the lower end of the drum adapted to drop calcined material into several different streams of partially calcined material, a stationary vertical shaft located at the lower end of the drum having means to determine said streams and having an upper hood enveloping the material outlet and the fuel inlet, said shaft having separate lower compartments adapted respectively to receive the different streams of material for further and individual secondary calcining and cooling, means for withdrawing individual streams of material from the individual compartments, means for introducing cooling air to the lower ends of said compartments, and means for extracting air from intermediate points of said compartments to establish a cooling zone and reintroducing said air into said hood whereby self-calcination may continue in the upper portions of said compartments, the gaseous product of calcination in said upper portions of the compartments and by-passed air and also fuel from said fuel inlet passing through the hood into said drum for primary tempered calcination in the drum in the presence of combustion of fuel.

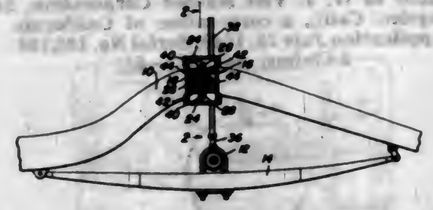
2,653,810
APPARATUS FOR BURNING FUEL
Thorbjorn Heilmann, Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y., a corporation of New Jersey
Application November 15, 1949, Serial No. 127,361
In Great Britain November 18, 1948
1 Claim. (Cl. 263—33)



In a kiln installation, the combination of a rotary kiln, a combustion chamber adjacent the lower end of the kiln and movable toward and away from the kiln in a direction generally lengthwise thereof, the chamber having an exit opening in its end facing the end of the kiln and an inlet opening in its side wall, an outlet tube mounted on the chamber to surround the exit opening, the tube extending substantially axially of the kiln and terminating within the kiln upwardly from the plane of the lower end thereof, means for projecting a primary air-fuel

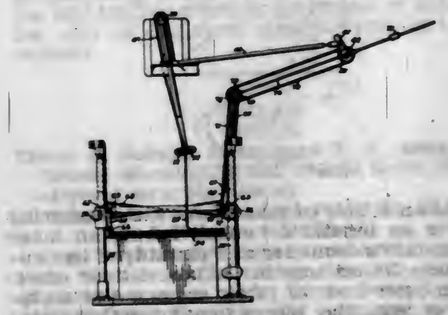
mixture tangentially into the chamber through the inlet opening for consumption of the solid constituents of the fuel within the chamber, the volatile constituents of the fuel and the burned gases passing into the kiln through the outlet tube, means for passing secondary air for combustion in heat exchange relation to hot products discharged from the kiln to preheat the air and for introducing the preheated air into the kiln around the outlet tube, and means for withdrawing ash and slag from the bottom of the chamber.

2,653,811
SHOCK STABILIZER FOR VEHICLE AXLES
Clifford M. Rider, Kansas City, Mo.
Application October 25, 1951, Serial No. 253,096
5 Claims. (Cl. 267—8)



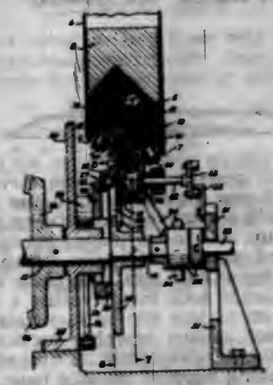
3. In a shock stabilizer of the character described, the combination of a substantially cylindrical housing adapted to be secured to a vehicle frame, a pair of rotatable shafts journalled transversely in opposite end portions of said housing and projecting laterally therefrom, a pair of cams secured to the respective shafts, a pair of pressure exerting members slidable in the housing and engaged by the respective cams, resilient means provided in the housing between said members for urging the latter outwardly against the cams, a pair of pinions secured to the projecting portions of the respective shafts, and a reciprocable toothed rack adapted to be connected to a vehicle axle and operatively engaging said pinions, whereby said pressure exerting members may be selectively and independently slid inwardly in said housing against the action of said resilient means by sliding said rack in opposite directions.

2,653,812
APPARATUS FOR FOLDING FABRICS
Samuel Cohn and Jules G. Walter, New York, N. Y., assignors to Samcee Holding Corporation, Woodside, L. I., N. Y., a corporation of New York
Application September 16, 1949, Serial No. 116,174
14 Claims. (Cl. 270—79)



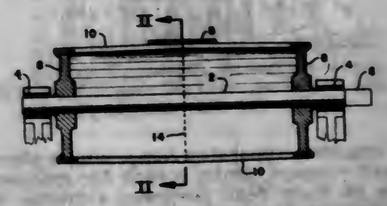
1. In a folding machine for textile material, an immovable table, a distributor, means for swinging the distributor above the table to lay the textile material in successive folds on the table, a frame above said table and vertically movable within a predetermined range of movement, counterbalance means secured to said frame and effective to lend support to the frame throughout its range of vertical movement, and rotating means on the frame operating in timed relation with the distributor to engage and smooth each layer of textile material adjacent the edges of the folds.

2,653,813
SUPPLYING ARTICLES FOR USE IN PACKAGING
Clarence W. Vogt, Norwalk, Conn.
Application September 2, 1949, Serial No. 113,735
15 Claims. (Cl. 271—1)



9. The method of supplying a sequence of V-shaped wrappers which comprises, supporting a plurality of said wrappers in nested relationship with their sides divergent, successively converging side edge portions of leading ones of said wrappers to extricate the leading wrapper from said support, successively positioning the apex of each of said wrappers in precise registry with the apex of a generally complementary receiving support, and holding said wrappers to said receiving supports whereby a commodity may be placed at a predetermined position on each of said wrappers.

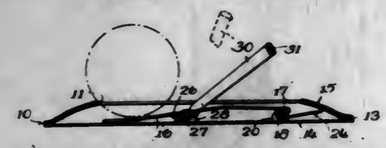
2,653,814
AUTOMATIC SELF-CENTERING ROLL
Edwin T. Lorig, Ross Township, Allegheny County, Pa., assignor to United States Steel Corporation, a corporation of New Jersey
Application December 14, 1950, Serial No. 200,854
4 Claims. (Cl. 271—2.6)



1. A rotatable roll for automatically centering an object passing thereover comprising a shaft supported in spaced apart bearings, a pair of web members spaced longitudinally of said shaft and supported thereon, said web members being arranged substantially at right angles to the

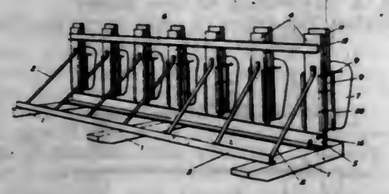
axis of said shaft, the outer periphery of said web members being substantially circular, and a plurality of resilient leaf-like elements extending between and supported by said web members about the periphery thereof substantially parallel to the axis of said shaft, the outer surfaces of said leaf-like elements being convex and substantially forming a cylinder, said leaf-like elements being arranged closely adjacent each other but spaced sufficiently from each other to permit independent flexing thereof transverse to the axis of said shaft.

2,653,815
GOLF PUTTING PRACTICE DEVICE
George A. Hartung, Brookfield, Ill.
Application June 27, 1950, Serial No. 170,645
4 Claims. (Cl. 273—36)



1. In a golf practice device, an elevated base having a golf cup formed in its upper face with upwardly inclined approach surfaces about the rim of said cup, an ejector plate hinged for rocking movement within said base on an axis adjacent one edge of said cup, said plate being tiltable on its hinged axis for elevating a ball relative to the rim of the cup to facilitate removal from the latter, means movably supporting said plate at a point removed from its hinged axis, including a rocking support on said base, substantially semi-circular ball having its opposite ends operatively connected with said support, said ball fitting between said plate and being normally depressible into non-ball retarding position adjacent the cup rim when said rocking support is in position to hold said plate in a relatively elevated putting position below said cup rim and said rocking support being tiltable by said plate to swing said ball upwardly to a ball-retaining position above said cup rim when said plate is forcibly depressed.

2,653,816
FOOTBALL TRAINING SLED
Arthur R. Young, Springfield, Mass., and John Dell Isola, Hanover, N. H.
Application July 3, 1951, Serial No. 235,032
6 Claims. (Cl. 273—55)



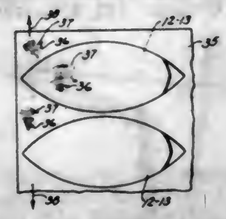
1. A charging apparatus comprising a plurality of spaced runners, girder means for spacing the runners at their rear portions, a frame, strut means between the frame and the girder means for bracing the frame, said frame comprising a plurality of flat vertical support members, a pair of horizontal girder means connected to the vertical members, stirrup means on each side of said support members, three sided boxes having two open edges, said edges mounted within the stirrup means, compression members fastened at the top of said support members, said boxes movably connected to said compression members, dummies mounted on one face of the box, spring means for maintaining a second face of the box and the compression member apart, a signalling circuit, electrical contact means mounted on said compression member and on the inside of said box for energizing said signalling circuit, and signalling means including a separate signalling box mounted on each compression member for indicating the open or closed position of the compression member with respect to the face of the box.

2,653,817
BALL TETHERING DEVICE
Herbert Edwin Tebbetts, Jr., Whittier, Calif., assignor to W. J. Voit Rubber Corporation, Los Angeles, Calif., a corporation of California
Application July 25, 1949, Serial No. 106,706
3 Claims. (Cl. 273—58)



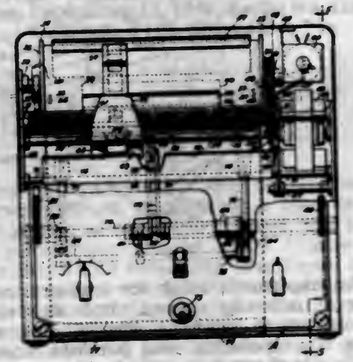
1. An attachment member for a ball, including: a body portion adapted to be secured to the ball, said body portion having an inner and an outer wall surface and a cavity formed in said outer wall surface, said cavity having a relatively narrow portion and a relatively wide portion, there being shoulders at the junction of said relatively wide portion with said relatively narrow portion which face said relatively wide portion and which are adapted to serve as seats for a knot disposed in said relatively wide portion to prevent movement of such knot from said relatively wide portion into said relatively narrow portion; and securing means in said cavity for securing a cord to said body portion and disposed between said narrow and wide portions of said cavity.

2,653,818
FABRIC REINFORCED FOOTBALL
Herbert Edwin Tebbetts, Jr., Whittier, and Antone F. Resnicek, Altadena, Calif., assignors to W. J. Voit Rubber Corporation, Los Angeles, Calif., a corporation of California
Application January 22, 1949, Serial No. 72,166
9 Claims. (Cl. 273—65)



3. As an article of manufacture, a reinforcing wall for an inflatable football having an inner layer of fabric composed of a plurality of lenticular pieces joined together adjacent their edges, and an outer layer of fabric composed of a plurality of lenticular pieces joined together adjacent their edges, said layers being bonded together, the joints of said outer layer substantially overlying the joints of said inner layer so as to form longitudinal ridges along said wall, each of said pieces providing warp and woof threads disposed so as to extend parallel to the major and minor axes of the football, the threads disposed parallel to said minor axis and only these threads, being prestretched before being incorporated in said wall.

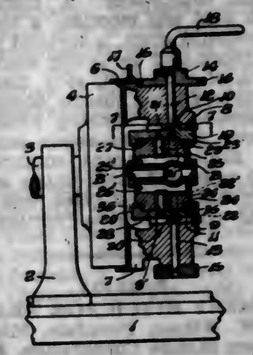
2,653,819
MAGNETIC RECORDING SYSTEM
Bruce Roberts, Philadelphia, Pa., assignor to The International Electronics Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 10, 1947, Serial No. 740,653
8 Claims. (Cl. 274—4)



1. A dictation machine comprising a creasible, flexible and limp rectangular nonmagnetic record sheet carrying dispersed magnetizable particles, a revolvable support adapted to carry the sheet in the form of a closed loop, the sheet being externally wrapped on the support, means for holding the sheet on the support with the leading edge portion driven with the support in substantially circumferential relation to the support, and with the trailing edge overlapping the leading edge with freedom for movement circumferentially of the support, and a magnetic scanning device yieldingly urged against a record sheet on the support, in a scanning path repeatedly crossing the overlapped edges of the sheet to provide for ironing out of any crease present in the record sheet intermediate the leading and trailing edges by movement of the trailing edge of the sheet circumferentially of the support.

2,653,820
CHUCK
Elmer G. Schade, Hainesport, N. J., assignor to Schade Machine Works, Mount Holly, N. J., a corporation of New Jersey
Application April 26, 1948, Serial No. 23,242
6 Claims. (Cl. 279—5)

1. A chuck comprising a pair of complementary jaws having profiled faces forming centering seats with parallel center lines spaced from one another, mountings for said jaws and relatively to which said jaws are rotatable about an axis normal to the center line of one of said seats, and supports for said mountings and relatively to which said mountings are rotatable about an axis parallel to said first named axis, said second named axis being spaced from said first named axis a distance approximately one-half the distance between the center lines of said seats.



2,653,821
ROLLER SKATE WITH REMOVABLE TRUCK ASSEMBLY
Gordon K. Ware, Chicago, Ill., assignor to Chicago Roller Skate Company, Chicago, Ill., a corporation of Arizona
Application August 25, 1948, Serial No. 46,112
6 Claims. (Cl. 280—11.28)



1. A roller skate structure comprising a frame arranged for connection at its upper side to a shoe or the like, a wheel axle support bracket, strut means interconnecting the support bracket and frame, an action screw interconnecting the frame and support bracket, said action screw being pivotally shiftable in respect to the frame and in respect to the support bracket, a member encircling the action screw adjacent the upper end thereof and removably connected to the frame for connecting the action screw to the frame, and means connected to the action screw adjacent its lower end for connecting the action screw to the support bracket.

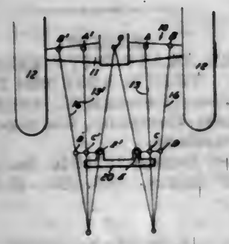
2,653,822
VEHICLE TOWAGE CONTROL
Gilbert F. Martin, Jonesville, Mich.
Application July 18, 1949, Serial No. 105,257
12 Claims. (Cl. 280—33.9)



6. In a tractor and trailer hitch having separate members mounted on said trailer and said tractor, a ball mounted on one of said members,

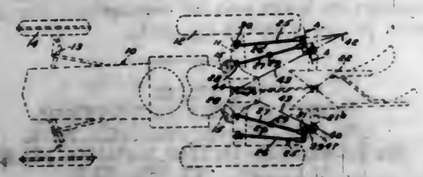
a socket connected to said other member fitting with said ball to form a ball and socket joint, the improvement comprising: a horizontal pivot mounted on said one member, a block mounted on said horizontal pivot, a vertical pivot mounted on said block and vertically aligned with the vertical axis of said ball, stop means on each of said members, and means cooperating with said stop means for limiting rotation of said block in both directions about said horizontal pivot, said limiting means comprising a first means fixed with said block and a second means mounted on said vertical pivot, one of said limiting means comprising a vertically resilient member.

2,653,823
IMPLEMENT HITCH FOR TRACTORS
Raymond W. Wilson, Ferndale, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware
Application November 13, 1950, Serial No. 195,158
6 Claims. (Cl. 280—33.44)



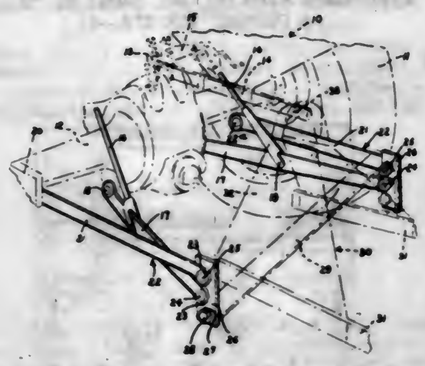
6. An implement hitch for a tractor comprising laterally spaced pairs of trailing hitch links, the links of each pair being forwardly divergent and the links each having their forward ends universally pivoted to the tractor, and laterally extending crank arms pivotally joining the links of each of said pairs at the rear ends thereof and adapted for pivoted connection to an implement, said pairs of links and said crank arms being operative to steer the implement about a desired effective steering point upon relative lateral tractor-implement movement.

2,653,824
IMPLEMENT HITCH FOR TRACTORS
Ralph C. Frevik, Detroit, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware
Application October 8, 1951, Serial No. 250,251
3 Claims. (Cl. 280—33.44)



2. An implement hitch for tractors comprising a pair of laterally spaced hitch link structures each including a pair of laterally spaced link elements having corresponding end portions adapted for pivotal attachment to the tractor, crank arms for joining the other ends of each pair of said elements, means pivotally connecting said crank arms to the corresponding pairs of elements, respectively, at least one element of each pair being selectively attachable at one of a plurality of points longitudinally spaced along the corresponding crank arm to vary the angular relationship of the arms of each pair relative to one another, and means on said crank arms for attaching an implement thereto, whereby relative lateral tractor-implement movement causes steering of said implement through said crank arms and said elements about a virtual hitch point located by the angular relationship of said elements.

2,653,825
TRACTOR IMPLEMENT HITCH
Edgar V. Collins, Ames, Iowa
Application March 17, 1952, Serial No. 276,965
6 Claims. (Cl. 280—33.44)



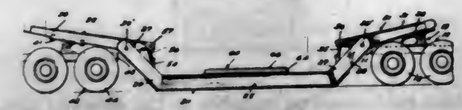
3. An implement hitch for tractors comprising a pair of laterally spaced hitch link structures each including laterally spaced link elements having corresponding end portions adapted for pivotal attachment to the tractor, crank arms joining the other ends of each pair of said elements, and means on said crank arms spaced from said other ends of said elements for attaching an implement thereto, whereby relative lateral implement-tractor movement causes steering of said implement through said crank arms and said elements.

2,653,826
PORTABLE FOLDABLE SHOPPING BASKET
Yen-Shen Lu, New York, N. Y.
Application March 20, 1951, Serial No. 216,480
2 Claims. (Cl. 280—36)



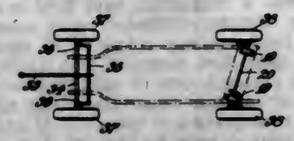
1. A shopping basket comprising an outer frame having front and rear sides and an open bottom, an inner frame adjustably connected to the outer frame and movable in and out of the bottom of said outer frame, said inner frame having supporting wheels connected to its bottom, lazy tong means connected between the front side of the outer frame and the inner frame, a bail having arms pivotally connected to the front side of the outer frame, said lazy tong means having a tension pull member pivotally connected to the bail removed from the pivotal connection with the front side of the frame, said bail being pivotable upwardly and out of the top of said outer frame to serve as a handle to pull or push the shopping basket when extended out of the top of the outer frame and against the front side thereof, and means for retaining the bail in the lowered and raised positions.

2,653,827
VERTICALLY ADJUSTABLE TRUCK TRAILER
Dave M. Manning, Hyaham, Mont.
Application September 21, 1949, Serial No. 116,988
7 Claims. (Cl. 280—44)



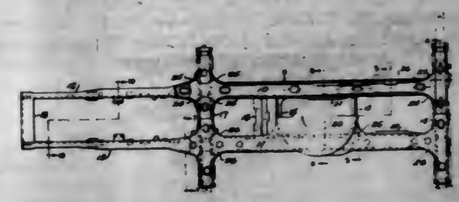
1. A tractor trailer structure for connection with a tractor truck, comprising a load carrier, a pair of beams at each end thereof, the beams of each pair being spaced apart transversely of the structure and extending lengthwise of the structure, a transverse pivotal connection between each pair of beams inwardly from one end thereof and the adjacent end of the carrier, a transverse horizontal pivot between one pair of beams between the other end of the same and said pivotal connection therefor and the rear of the tractor truck, a wheeled trailer truck, a transverse horizontal pivot between the other end of the other pair of beams and the pivotal connection therefor and the trailer truck, and power mechanism between each pair of beams at the said one end thereof and the adjacent end of the load carrier for vertically swinging each pair of beams on the transverse horizontal pivot therefor to effect raising and lowering of the carrier.

2,653,828
AXLE MOUNTING OF TRAILERS AND OTHER VEHICLES
Stephen Eric Alley, Burnham Market, Norfolk, England, assignor to Rubber By-Products (Warwickshire) Ltd., Birmingham, England, a British company
Application November 14, 1950, Serial No. 195,575
In Great Britain December 15, 1948
4 Claims. (Cl. 280—104)



1. A vehicle axle mounting comprising in combination a turntable, bearings on one member of the turntable, and a shaft received in said bearings to be rotatable about its longitudinal axis, which bearings are so located that the shaft lies horizontal when the vehicle is on a horizontal surface and that when viewed in plan with the vehicle travelling straight ahead it extends from side to side of the vehicle at an obtuse angle relatively to the longitudinal centre line of the vehicle, which shaft has at its ends two parallel crank arms carrying outwardly-directed stub axles one on each side of the vehicle, and which crank arms are oppositely-directed at such angles with respect to the shaft, and have the stub axles so positioned on them, that the stub axles are in substantial alignment when viewed in plan.

2,653,829
MOTOR CRANE UNDERFRAME
William M. Sheehan, Philadelphia, Pa., assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application January 9, 1950, Serial No. 137,505
9 Claims. (Cl. 280—106)



1. In a motor crane chassis frame, main longitudinal members and transverse members of box-like cross section of substantial width and depth and positioned at substantially the same general level with portions intersecting each other, the intersecting portions comprising upright arcuate webs, each having a radius corresponding generally to the width of the adjacent box-like portions of the members, and a turntable horizontal platform extending between the main longitudinal members intermediate said transverse members and having depending webs merging with said longitudinal members, said members, arcuate webs and platform being formed in a one piece metal casting.

2,653,830
MANIFOLDING
Douglas A. Newman, Sea Cliff, N. Y., assignor to Columbia Ribbon and Carbon Manufacturing Company, Inc., Glen Cove, N. Y., a corporation of New York
Application August 10, 1948, Serial No. 43,899
14 Claims. (Cl. 282—19)

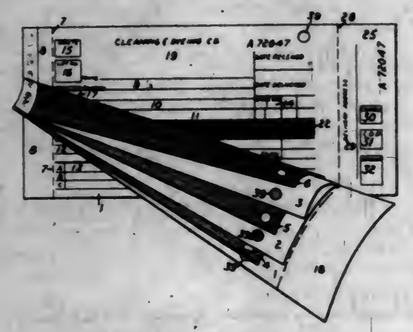


1. As a new article of manufacture, a transfer medium for manifolding use comprising a web of fabric having a coating of transfer material thereon, a longitudinal row of vacuities in said web, and dry, normally inactive adhesive carried solely by the portions of the web lying between said vacuities, the arrangement of said vacuities and said portions being such that the web is windable without damage to itself.

14. As a new article of manufacture, a transfer medium having a double faced adhesive application comprising a strip of fabric provided with a coating of transfer material and having at least one edge of undulating form so as to provide a series of alternating projections and gaps, and adhesive applications thereon on opposite surfaces of the projections thereof such that the

adhesive-carrying portions of the projections lie in substantially a straight line which intersects each of the intervening gaps.

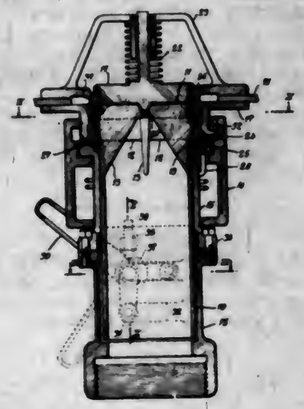
2,653,831
REPAIR SERVICE MANIFOLDING SET
Roy H. Dickson, Cleveland, Ohio, assignor to Control Forms, Inc., Cleveland, Ohio, a corporation of Ohio
Application May 23, 1950, Serial No. 163,770
3 Claims. (Cl. 282—23)



1. A repair service manifolding set comprising a top group of sheets and a bottom group of sheets, the sheets of each group being bound together at one end of the set and the top group being detachable from the bottom, the said sheets comprising record sheets and transfer sheets superimposed in manifolding relation, the sheets of the bottom group being longer than the transfer sheets of the top group and record sheets thereof having superimposed detachable stubs at their free ends disposed beyond the ends of the transfer sheets of the top group, the transfer sheets of the bottom group having end portions disposed between said superimposed stubs.

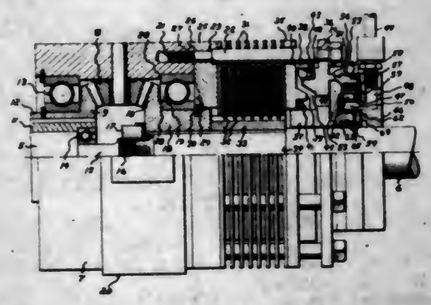
2,653,832
UNDERWING FUELING NOZZLE AND VALVE FOR AIRCRAFT
James Coolidge Carter, Los Angeles County, Calif., assignor to The J. C. Carter Company, Pasadena, Calif., a corporation of California
Application October 25, 1946, Serial No. 705,545
12 Claims. (Cl. 284—18)

12. A nozzle unit for filling tanks comprising a conduit adapted to be connected with a fluid supply line and to engage a tank inlet, a valve disposed in said conduit and adapted to be moved between a closed position and an open position, actuating means for said valve disposed externally of and on said conduit and movable between an open and a closed position, and means connecting said actuating means with said valve for moving the same between an open and a closed position when said actuating means are moved between open and closed positions, a coupling member movably mounted on and externally of said conduit for movement between an uncoupled position and a coupled position, said coupling member being adapted to engage coupling means associated with a tank inlet, first locking means mounted entirely on said conduit and actuating means and positioned to lock said valve in closed position, first holding means mounted on said coupling member positioned to engage and hold said first locking means in position to lock said valve in closed position when said coupling means is in uncoupled position, second locking means mounted entirely on said conduit and said coupling member and positioned



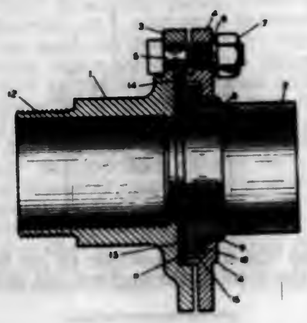
to lock said coupling member in full coupled position and second holding means mounted on said actuating means and positioned to hold said second locking means in position to lock said coupling member in full coupled position when said actuating means are away from closed position.

2,653,833
ROTARY PRESSURE FLUID SEAL
John T. Barron, South Easton, Mass., assignor to Charles E. Crofoot Gear Corp., South Easton, Mass., a corporation of Massachusetts
Application January 7, 1949, Serial No. 69,669
2 Claims. (Cl. 285—9)



1. A fluid seal for first and second members of which one is rotatable, said first member including an annular cylinder, said second member being held against rotation in spaced axial relation to said first member and having a pressure supply conduit, one of said members including a pair of radially spaced annular ribs, a pair of annular rotary seals of substantial axial length, said seals being carried by the other of said members and abutting the said ribs, said seals being of different diameters thereby to define the inner and outer walls of an annular chamber and being axially yieldable thereby to remain effective against leakage when fluid pressure is exerted to take up axial play between said members, and said first and second members each having a port in communication with said chamber and with said cylinder and said supply conduit respectively.

2,653,834
INSULATED PIPE UNION
Roy C. Purkhiser, Cleveland, Ohio
Application September 21, 1950, Serial No. 186,000
5 Claims. (Cl. 285—17)



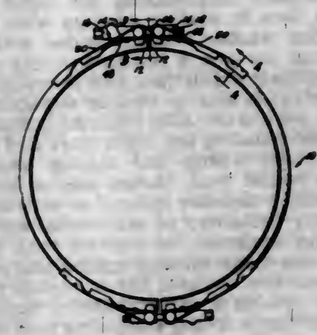
1. A pipe union comprising in combination a first pipe and a second pipe, each of said pipes having an end flange which is adapted to be opposed to the other when in assembled position in said union, a retaining collar for releasably connecting said two pipes together, said collar being adapted to surround said second pipe in radial spaced relation, securing and tightening means for releasably securing said collar to the end flange of said first pipe, the flanged end of said first pipe having an axial recess in its front face, a sealing and insulating gasket carried in said recess, said gasket being interposed between the opposed flange faces of said pipes for sealing against leakage and for preventing electrical contact between said first and second pipes, said collar having an inner radial rim, a dielectric bushing preformed to have an axial portion and a radial flange, respectively interposed annularly between said second pipe and the radial rim of said retaining collar, and also between the radial rim of said collar and the adjacent rear surface of the flange of said second pipe, said retaining collar having a circular end rib on its front face opposed to front face of the flange of said first pipe; the outside diameter of said rib being smaller than the inside diameter of said recess in the end of the first pipe so as to provide for sealing engagement of the rib of said collar with said gasket upon the tightening said securing and tightening means for the purpose of sealing against leakage from the interior of said pipes, the peripheral surfaces of the flanges of said second pipe and said bushing and the inner surfaces of said rib being annularly spaced to provide a dielectric air gap therebetween.

2,653,835
FASTENING UNIT FOR TOILET FIXTURES
Elmer G. Nelson, Lindsborg, Kans.
Application May 14, 1951, Serial No. 226,141
2 Claims. (Cl. 285—34)

2. A fastening unit for a toilet fixture comprising a rod anchored in and extending upwardly from a supporting surface through a toilet fixture flange, said rod having a threaded upper end, a nut threaded on said threaded rod end and bearing on an upper side of the fixture flange, an ornamental porcelain cap having a bottom face bearing on the fixture flange, said cap having a chamber opening outwardly of said bottom face and loosely surrounding the nut, said cap having a threaded socket opening downwardly into the chamber and threadedly engaging the upper end of the rod above the nut for detachably securing the cap to the rod in a position over the nut, the depth of the chamber corresponding to the thickness of the nut, and said cap having an internal face bearing on an upper face of the nut to prevent displacement of the nut away from the fixture flange while engaged by the cap.



2,653,836
REINFORCED V-BAND CLAMP
Clarence E. Christophersen, Inglewood, and George A. Maheff, Santa Monica, Calif., assignors to Marman Products Company, Inc., Inglewood, Calif.
Application September 4, 1948, Serial No. 47,786
7 Claims. (Cl. 285—129)



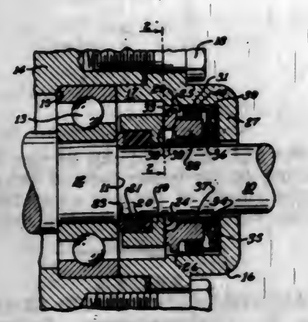
1. A clamp comprising: a generally annular band having the form of an inwardly opening channel with diverging side walls terminating in cylindrical, axially directed stiffening flanges; said band having at least two end portions facing each other in circumferentially spaced relation; an anchorage on each end portion comprising a reversely looped band member having its free ends secured to said annular band and its looped end adjacent to said end portion; the central portion of each looped end being cut away; a trunnion mounted in each said cut-away portion and provided with bosses journaled in the looped portions of said band member; an inward extension integral with each trunnion having an inwardly open channel formation generally corresponding to the shape of said annular band to embrace and reinforce said band against axial divergence; and securing means passing thru said trunnions to draw them together to contract said band into engagement with an article to be clamped and to draw said trunnion extensions into reinforcing pressure against the end portions of said side walls of the band, whereby the greater the tensioning of the band the greater the reinforcement pressure against the side walls of the band.

2,653,837

HIGH-PRESSURE ROTARY SEAL WITH O RING

Charles F. Voytech, Chicago, Ill., assignor to Crane Packing Company, Chicago, Ill., a corporation of Illinois

Application May 27, 1948, Serial No. 29,559
3 Claims. (Cl. 286—11.14)



1. In a sealing device for establishing a fluid tight seal between relatively rotatable inner and outer parts having an annular space therebetween to receive the sealing device, a seat-forming ring on the inner part and rotatable therewith, a sealing washer surrounding the inner part and having a face in sealing contact with said ring, said sealing washer being provided with a cylindrical outer surface, a resilient O-ring surrounding said cylindrical surface and in sealing engagement therewith and in sealing engagement with the outer part, a metallic retainer having a sleeve portion surrounding the inner part and telescopically received within the sealing washer, and having a radial wall, thrust means including a freely floating member extending between the extreme outer periphery of said radial wall and the O-ring and designed for contact with the latter to retain the same on said cylindrical outer surface of said washer, said thrust means encircling at least a portion of the cylindrical outer surface of said washer, a spring encircling said inner part and also encircling the sleeve portion of said retainer and having one end bearing against the sealing washer and the other end bearing against the radial wall of the retainer, said spring normally urging the washer and retainer axially in opposite directions, and interengaging means on the sleeve portion of the retainer and on the sealing washer for preventing axial separation thereof.

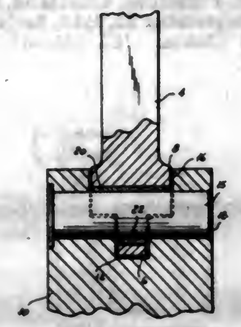
2,653,838

CONNECTING ROD JOINT

George I. Danly, Elmhurst, and Vasil Georgeff, La Grange Park, Ill., assignors to Danly Machine Specialties, Inc., Chicago, Ill., a corporation of Illinois

Application May 2, 1951, Serial No. 224,236
2 Claims. (Cl. 287—96)

1. In a power press, a pitman and a reciprocating member, the pitman being formed with a lower end of reduced cross-sectional size, said pitman being provided with a transverse bore passing through both the reduced end portion and the pitman, the reciprocating member being formed with a stepped recess and receiving the lower end of the pitman, a pin lodged in the bore pivotally connecting the pitman end to the reciprocating member, the lower portion of the pin being supported by the reciprocating member



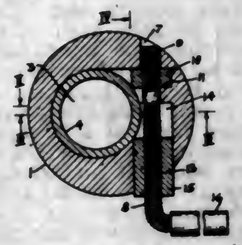
throughout the major portion of its length and engaging the pitman throughout the width of said pitman.

2,653,839

CLAMP

Henry B. Middendorf, Pittsburgh, Pa., assignor to Scaffold Equipment Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application June 29, 1951, Serial No. 234,364
3 Claims. (Cl. 287—119)



1. A clamp comprising a body provided with an opening extending longitudinally thereof adapted to snugly receive a member to be clamped therein, said body being provided with a transverse passage therethrough at one side of said opening, a screw rotatably disposed in the passage and having a projecting end formed for turning it, the screw being provided in the passage with right and left hand threaded portions, said body being provided with a recess surrounding the screw near one end and extending through the wall of said opening, a stationary nonrotatable nut inserted in said recess and mounted on the threaded portion of the screw extending through the recess, and a clamping nut mounted on the other threaded portion of the screw and slidably but non-rotatably disposed in the passage, said opening intersecting the passage at the inner end of the clamping nut, whereby when the screw is turned to move the clamping nut inward an edge of the nut will project from said open side of the passage and engage said member.

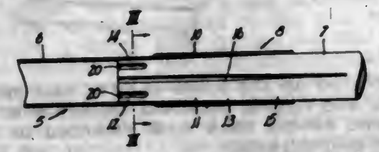
2,653,840

JOINTED HANDLE

Jack A. Bitzer, Lancaster, and Edwin N. Weistmann, Buffalo, N. Y., assignors to O-Cel-O, Inc., Buffalo, N. Y.

Application May 2, 1950, Serial No. 159,584
1 Claim. (Cl. 287—126)

A jointed handle consisting solely of a hollow cylindrical body part terminating at one end in an enlarged cylindrical socket member with an annular shoulder portion intermediate the inner end of said socket member and the adjacent portion of said body part, and a second hollow body part terminating at one end in a stud member, said stud member having a generally cylindrical outer end portion provided with spaced axially extending fluted indentations in the wall thereof, and said stud member having a portion at least as long as said socket member extending inwardly from the inner end of said generally cylindrical outer end portion and tapering inwardly from its inner end to the inner end of said generally cylindrical outer end portion of the stud member, the generally cylindrical outer end portion of the stud member being of a diameter slightly less than the interior diameter of that portion of said first body part adjacent the inner end of said socket member, and the inner end portion of the tapering portion of the stud member being of a diameter slightly greater than the interior di-



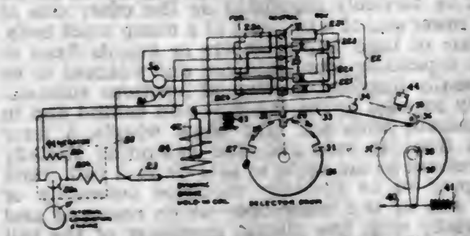
ameter of said socket member, the stud member being telescopically received in said socket member and the portion of the first body part adjacent the inner end of said socket member, with the outer generally cylindrical end portion of the stud member in snug fitting engagement with that portion of the first body part adjacent the socket member, and the outer end portion of the tapering portion of the stud in engagement with the annular shoulder portion of the first body part, and with the inner end portion of said tapering portion of the stud in engagement with the outer end portion of said socket member, whereby the telescoped parts are accurately alined and firmly connected but yet allowing ready forcible axial separation of said stud member from the socket member.

2,653,841

ELECTRICALLY DRIVEN MECHANISM

Robert H. Davies, Shaker Heights, and Edward R. Sirotak, Brooklyn Village, Ohio, assignors to The Baker-Raulang Company, Cleveland, Ohio, a corporation of Ohio

Application September 18, 1950, Serial No. 185,432
10 Claims. (Cl. 290—17)



9. In an electrically driven vehicle the combination of a generator for generating electric current, a gas engine having a throttle, means for coupling said gas engine to drive said generator, an electric motor having an armature, a dynamic brake circuit including the armature of said motor, a controller for energizing said motor from said generator, said controller having an operating member movable in opposite directions from a neutral position into forward and reverse running positions, means controlled by said operating member in intermediate positions on either side of said neutral position for closing said dynamic brake circuit, and means controlled by the current in said braking circuit to prevent operation of said throttle until said dynamic braking reduces the speed of said motor to a predetermined value.

2,653,842

TOGGLE FASTENER

John Love, Hillington, Glasgow, Scotland, assignor to K. A. C. Limited, Hillington, Glasgow, Scotland, a British company

Application October 9, 1951, Serial No. 250,540
In Great Britain October 11, 1950
17 Claims. (Cl. 292—256)



1. A toggle fastener comprising a primary part and a secondary part formed respectively for attachment to two relatively separable members to be connected by the fastener; a locking lever having, at one end, a finger piece and, at its other end, fulcrum means; a link pivoted at one end between the ends of said locking lever and pivoted at its other end to the said primary part of the fastener; fulcrum members on said secondary part of the fastener for engagement with the fulcrum means of said locking lever during the closing of the fastener; a latch lever pivotally carried by said secondary part of the fastener and adapted releasably to secure said locking lever in its locked position; and throw-out means operable by said latch lever, during the locking lever-releasing movement of the latter, to effect an initial movement of the locking lever in an unlocking direction.

2,653,843

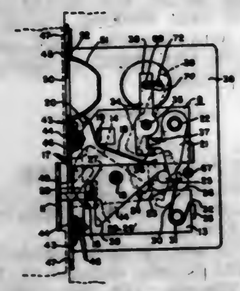
LOCK HOUSING

Arthur R. Adams, Glendale, and Earle Donnell Grinzard and Paul C. Cady, Los Angeles, Calif., assignors to Adams Rite Manufacturing Company, Glendale, Calif., a corporation of California

Original application April 27, 1948, Serial No. 23,426. Divided and this application June 27, 1949, Serial No. 101,645
2 Claims. (Cl. 292—337)

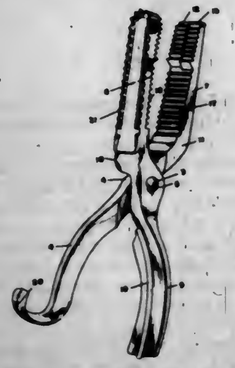
1. In a door lock casing for use with a door having a closure edge: front and back plates respectively mountable on opposite sides of the door; edge portions respectively carried by said plates adapted to extend over the closure edge of the door in overlapped adjustable relation for varying the spacing between said plates; a closure plate overlapping said portions having a finger receiving opening therein; first means for securing said closure plate and said portions in ad-

justed overlapped relation; second means for securing said closure plate to the adjacent door edge; and a cup-shaped member engaging said



edge portions of said front and back plates and said closure plate so as to be supported on the inside of said closure plate over said finger receiving opening.

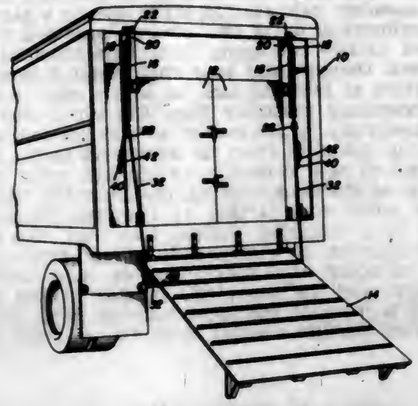
2,653,844
FISH GRIPPER
Marshall L. Detwiler, Lancaster Township, Lancaster County, Pa.
Application October 18, 1949, Serial No. 122,048
1 Claim. (Cl. 294—118)



A fish gripper comprising a pair of pivoted levers each formed with a jaw portion and a handle portion, each of said jaw portions having a forward section and a rearward section, said rearward sections being depressed below said forward sections, end teeth arranged in two longitudinal transversely staggered rows in each of the forward sections of the jaws, said forward sections contacting and interfitting when the gripper is in closed position, shallow transverse parallel teeth in each of said rearward sections, whereby closure of said gripper engages the teeth of one forward section with the teeth of the other forward section, the teeth of the rearward sections being maintained in opposed spaced parallel relation to permit the holding of a small fish between said teeth of the rearward sections without mutilation of said fish.

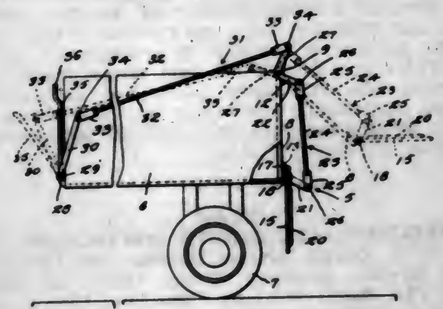
2,653,845
COUNTERBALANCE FOR TAIL GATES
Percy W. Benjamin, West Edmeston, N. Y.
Application October 26, 1951, Serial No. 253,407
4 Claims. (Cl. 296—61)

1. In a truck including a vertically swingable tail gate at its rear end that may be lowered to form a ramp, whereby cattle may move into the rear of the truck, a counterbalance for the tail gate comprising a pair of vertical hanger spring members attached at their upper ends to the rear of the truck alongside of said tail gate, pul-



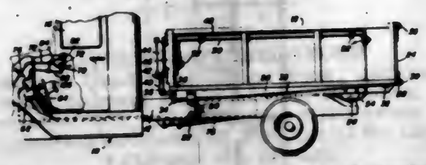
leys supported on the lower ends of said spring members, and flexible elements trained over the pulleys and having their ends attached to said truck and said tail gate.

2,653,846
REAR WHEEL SPLASH GUARD FOR DUMP TRUCKS
George D. Wiley, Doylestown, Pa.
Application December 22, 1952, Serial No. 327,255
4 Claims. (Cl. 298—1)



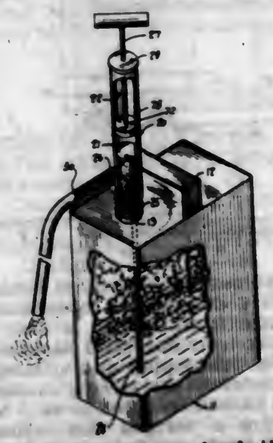
1. A splash guard and actuator for dump trucks comprising a rod adapted to extend across and be turnably supported on the outer side of the lower end of a tail gate of a dump truck body, a pair of rigid flap members or guards fixed to and depending from said rod and adapted to be normally disposed in vertical positions substantially parallel to the tail gate and behind and in alignment with the rear truck wheels, a lever arm fixed to said rod and extending radially therefrom at an angle to said flaps, a bell crank adapted to be pivotally mounted outwardly of one side of the truck body at its rear end and coaxially with the pivotal mounting of the tail gate, a first linkage means connecting said lever arm to a first arm of the bell crank, a lever disposed adjacent the forward end of the truck body, means adapted to be supported on the truck body for pivotally mounting said lever for swinging movement longitudinally of the truck body, and a second linkage means connected to said lever remote from the pivot means thereof and to a second arm of the bell crank whereby when said lever is swung forwardly of the truck body the bell crank, lever arms and flaps will be swung in the same direction for swinging the flaps upwardly and rearwardly relatively to the tail gate and away from the rear truck wheels.

2,653,847
ENDGATE CONTROL FOR DUMP TRUCKS
Noah Heisel, Jr., Lake City, Mich.
Application December 21, 1948, Serial No. 66,416
1 Claim. (Cl. 298—23)



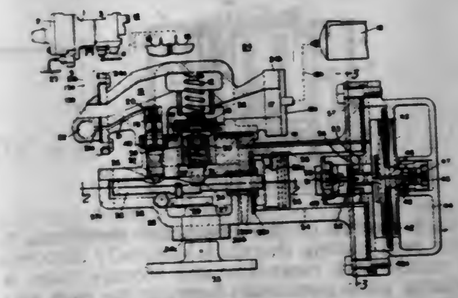
The combination of a dump truck including a chassis, an operator's cab provided thereon, fulcrum means provided at the rear end of the chassis, a dump body having its rear end portion connected to said fulcrum means and having a front end wall spaced rearwardly from said cab, a swingable end gate on said body and a gate control comprising a latch slidably mounted on the rear portion of the body and engageable with said gate, an air cylinder mounted on the front end wall of the body in the space between said end wall and said cab, linkage extending longitudinally of the body and operatively connecting said cylinder to said latch, an air compressor on said chassis, an air control valve provided in said cab and connected to said compressor, a pair of air pipes connected at one end thereof to said valve and extending on said chassis to a point adjacent said fulcrum means, a pair of air lines connected at one end thereof to said cylinder and extending on said body to a point adjacent the fulcrum means, and a pair of flexible hoses connecting the other ends of the respective air pipes to the respective air lines.

2,653,848
FOAM CREATING APPARATUS
Robert E. Lee, Cleveland, Ohio
Application August 25, 1951, Serial No. 243,732
3 Claims. (Cl. 299—83)



1. Foam creating means and substitute closure member for the sealing cap of a container, adapted for dispensing a soap solution from the said container through the neck thereof comprising a tubular body member designed to fit removably over the said neck and having a closed top, an air tight partition positioned intermediate the ends of the body member and forming upper and lower chambers therein, air compressing means in the upper chamber, means communicating with the upper chamber for delivering compressed air to the container below the level of the contained liquid, whereby to create a disturbance in the liquid and to form bubbles above the liquid level and a pressure in said container, a bubble outlet nipple on the body member communicating with the lower chamber at the upper end thereof, and foam generating means connected to the said nipple and adapted to receive a stream of bubbles therefrom, the said generator comprising a smooth bore tubular member having a length approximately sixty-five times its bore diameter whereby each bubble passed therethrough is broken down into myriads of minute bubbles and thereby creating foam.

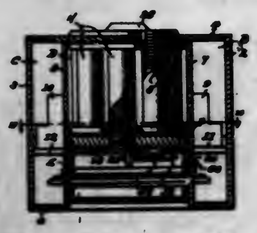
2,653,849
AUXILIARY BRAKE CONTROL VALVE FOR RAILROAD CARS
Thomas James, Jr., Oakiyn, N. J.
Application June 11, 1949, Serial No. 98,508
5 Claims. (Cl. 303—68)



1. In an air brake system for railroad cars wherein compressed air from a storage reservoir is applied to and subsequently released from a brake cylinder by an AB control valve in accordance with variations in pressure in a brake pipe line, the improvement which comprises an auxiliary valve connected between said AB control valve and said brake cylinder, said auxiliary valve having an auxiliary valve element manually operable from a normal position to an abnormal position and having a passageway which in normal position of said auxiliary valve element interconnects said AB valve and said brake cylinder and in said abnormal position said element closes said passageway to interrupt flow of air between said AB valve and said brake cylinder and releases brake-applying pressure from said cylinder, said auxiliary valve having means including a pneumatic actuator for automatically returning said auxiliary valve element from its abnormal position to its normal position, control means for said pneumatic actuator comprising a diaphragm movable between predetermined positions for controlling application of pressure to said actuator, a passageway for flow of air from said brake pipe line when said auxiliary valve element is in its abnormal position for flow of air into a diaphragm chamber on one side of said diaphragm, a passageway from said diaphragm chamber to a pressure chamber on the opposite side of said diaphragm, said last named passageway including a first check valve which is opened by and upon application thereto of said

brake pipe line pressure, said check valve including a spring for producing a pressure differential between said diaphragm chamber and said pressure chamber, said check valve closing upon attainment of said differential of pressure, said check valve having an associated passageway leading between said chambers and including a flow restriction therein whereby said pressure in said chambers are slowly equalized upon closure of said check valve by said spring, a reduction in pressure within said diaphragm chamber at a rate greater than established by said flow restriction as by a service rate reduction of pressure in said brake pipe line and in said diaphragm chamber for effecting movement of said diaphragm toward that chamber, a check valve opened by said diaphragm movement for application of pressure to said actuator for movement thereby of said auxiliary valve element from its abnormal position to its normal position for application of air pressure to the brake cylinder from said AB valve.

2,653,850
COMBINATION STORAGE AND DISPENSING RACK
Theodore F. Vollten, Bethesda, Md.
Application November 17, 1949, Serial No. 127,818
3 Claims. (Cl. 312—47)



1. In a device of the character described, a storage rack having therein a vertically disposed open-ended chip reception and storage tube, a dispensing plate positioned beneath the rack and provided with a chip reception pocket normally in alignment with the lower open end of said tube to form a continuation thereof, a deck beneath said plate and provided with a passageway for chips, said passageway being normally out of alignment with the pocket of the plate, said plate being rotatable to move the pocket thereof in alignment with the chip passageway of the deck, the storage rack, dispensing plate and deck being within a cabinet, a drawer beneath the deck, said drawer when extended from said cabinet having a portion disposed beneath the chip passageway of the deck, said drawer when extended being downwardly inclined, a lock acting when the drawer is in a closed position to prevent rotation of the dispensing plate, means when said drawer is moved to open position moving said lock out of locking relationship with the dispensing plate, and means for manually rotating the plate.

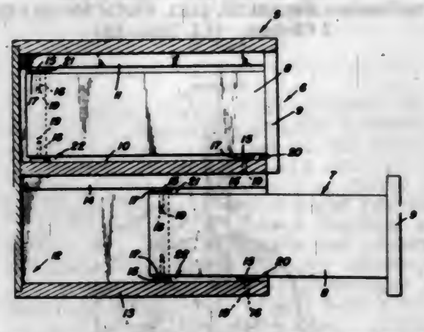
2,653,851
CABINET HAVING IMPROVED MEANS FOR FACILITATING OPENING DOORS SINGLY OR IN MULTIPLE
Lloyd H. Davidson, Connersville, Ind., assignor to Avco Manufacturing Corporation, New York, N. Y., a corporation of Delaware
Application May 3, 1947, Serial No. 745,810
5 Claims. (Cl. 312—320)

2. A steel cabinet comprising side walls, mating pairs of doors disposed vertically of each other, each door being hinged to a wall to swing laterally about an axis adjacent its outer side edge, the inner edges remote from the walls being contiguous, the lower edges of the upper doors and the upper edges of the lower doors being spaced for the insertion of the user's fingers between them, and a fixed transverse bar extending across the front of the cabinet between the side walls, said bar having upper and lower face portions



abutting the inner faces of said doors at points above and below the lower and upper edges of the upper and lower doors respectively, said bar also having a central recessed portion extending horizontally at least the width of a hand outwardly from each of said contiguous edges and underlapping the upper and lower extremities of said doors thereby providing a space for the entry of the fingers behind the upper or lower door edges whereby the doors may be opened singly or in multiple.

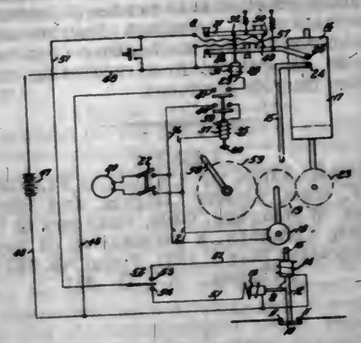
2,653,852
DRAWER MOUNT WITH CUSHIONED ADAPTER GLIDES
Carl A. Bissman, Springfield, Mo.; Elizabeth Lois Bissman, executrix of said Carl A. Bissman, deceased
Application June 20, 1949, Serial No. 100,249
3 Claims. (Cl. 312—332)



1. In combination, a cabinet embodying an enclosed space defining an open ended sliding drawer compartment having a firm horizontal bottom and at least one fixed horizontal drawer rail, a drawer telescoping and slidably mounted in said compartment and having a member thereof in spaced parallel relation to said bottom, the bottom having a vertical pin accommodation hole, and at least one drawer cushioning glide embodying a rigid concavo-convex anti-friction head having its convex surface in supporting contact with said member, a rigid pin fixed centrally and rigidly to the concave side of said head and extending therefrom and projecting slidably and loosely into said pin accommodation hole, and a responsively squeezable, self-adjusting cushioning washer encircling said pin and abutting and operatively cooperating with the concave side of said head and attached directly to said bottom surface by an adhesive, said washer being made of elastic rubber which increases and diminishes in size readily in response to varying pressure demands.

2,653,853
SPEEDGRAPH RECORDER
Edwin C. Goodwin, Canton, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application November 26, 1949, Serial No. 129,650
7 Claims. (Cl. 346—23)

1. An apparatus for recording the movements of circuit breaker contacts, comprising: a recording drum, a graph sheet mounted on said drum, means for rotating said drum to provide a predetermined rate of advancement of said graph sheet, a first marker operative upon said graph sheet in a direction transverse of the direction of graph sheet advancement, means for translating the movement of the circuit breaker contacts to said first marker as the graph sheet advances, a second marker operative upon said graph sheet, and means under the control of the



graph sheet advancing means for initiating the circuit breaker contact movement and substantially concurrently therewith the movement of said second marker across said graph sheet in a direction transverse of the direction of graph sheet advancement.

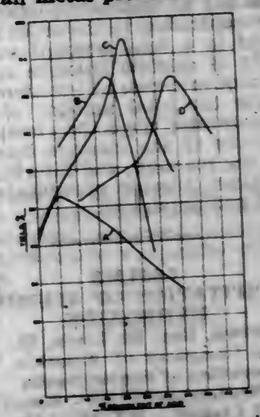
CHEMICAL

2,653,854
CORROSION INHIBITING PACKAGING MATERIAL AND METHOD OF MAKING
Charles H. Schaar, Chicago, Ill., assignor to The Cromwell Paper Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application October 17, 1949, Serial No. 121,886
7 Claims. (Cl. 21—2.5)

1. A packaging material for inhibiting rusting and corrosion of metallic articles packaged therein, comprising a paper sheet having uniformly coated thereon an effective quantity of the reaction product of dicyclohexylamine and caprylic acid.

2,653,855
PRODUCTION OF ALKALI METAL FLUOTITANATES AND FLUOZIRCONATES
Henry C. Kawecki, Fleetwood, Pa., assignor to Kawecki Chemical Company, Boyertown, Pa., a corporation of Pennsylvania
Application May 25, 1951, Serial No. 228,231
13 Claims. (Cl. 23—19)

1. The method of producing a compound of the group consisting of alkali metal fluotitanates and fluozirconates which comprises forming an intimate physical admixture of a fluosilicate of an alkali metal, an oxidic compound of a metal of the group consisting of titanium and zirconium, and an oxidic compound of an alkali metal capable of thermally decomposing to the oxide, heating the mixture to effect fusion thereof, cooling the resulting product to effect solidification thereof, comminuting said solid product, leaching the comminuted solid product with an acidic aqueous medium, and recovering the resulting dissolved alkali metal product selected from the



group consisting of the fluotitanate and fluozirconate.

2,653,856
PREPARATION OF BERYLLIUM FLUORIDE
Guy Barr, Teddington, England, assignor to Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England
No Drawing. Application January 23, 1948, Serial No. 4,061. In Great Britain February 14, 1947
2 Claims. (Cl. 23—88)

2. The process for the preparation of solid beryllium fluoride which comprises the steps

forming a mixture of beryllium ammonium fluoride and beryllium oxide in approximately equimolecular proportions with the former compound in small excess, heating the mixture to bring about reaction between the compounds with the formation of beryllium fluoride and ammonia, discontinuing the heating when ammonia ceases to be evolved and recovering the solid beryllium fluoride produced.

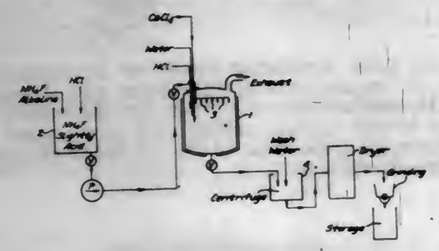
2,653,857

PREPARATION OF CALCIUM FLUORIDE

John F. Ross, Shaker Heights, and Harold W. Sloyer, Willoughby, Ohio, assignors to General Electric Company, a corporation of New York

Application May 1, 1951, Serial No. 223,914

3 Claims. (Cl. 23—88)



1. The process of preparing a uniformly fine and readily washable form of calcium fluoride by precipitation from solutions of ammonium fluoride and calcium chloride which comprises heating to boiling temperature a quantity of calcium chloride solution having a concentration in the range of about 60 to 300 grams per liter, adding thereto sufficient concentrated hydrochloric acid to give a concentration of about .05 to .25 per cent HCl, adding in the form of a multiple jet spray a quantity of ammonium fluoride solution having a concentration in the order of 135 grams per liter and in a total amount such that the said quantity of calcium chloride is from about 5 to 25 per cent in excess of the amount required to react with the total amount of ammonium fluoride, maintaining the boiling temperature and the said acidity of the mixture throughout the duration of the reaction, and filtering and washing the calcium fluoride precipitate to remove soluble salts and impurities.

2,653,858

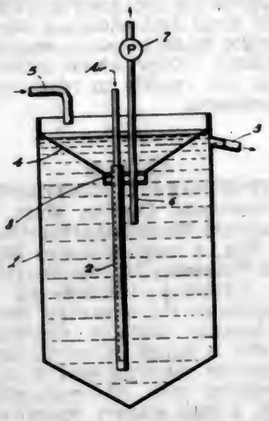
PRECIPITATION OF ALUMINUM HYDROXIDE

Ralph W. Brown, East St. Louis, Ill., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

Application September 22, 1951, Serial No. 247,861

5 Claims. (Cl. 23—143)

1. The process of producing aluminum hydroxide from a supersaturated alkali metal aluminate solution, which comprises continuously discharging a stream of such solution into an upper agitated portion of a tank in which a predetermined level of the solution is maintained, the said agitated upper portion being defined by separating walls but opening at the bottom into the underlying portion of the tank, withdrawing solution from the tank through an outlet which opens into that portion of the solution in the tank which is at the level of the said separating walls but is separated from the said agitated portion by the said walls, inducing flow downwardly through said opening into the lower portion of the said tank, and elevating a portion of said flow with particles of aluminum hydroxide found therein through a separated passage into the said upper portion defined by the said



separating walls so that the said elevated solution agitates the solution in such upper portion, thereby causing auto-precipitation of aluminum hydroxide therefrom, and withdrawing from the said tank aluminum hydroxide precipitated therein.

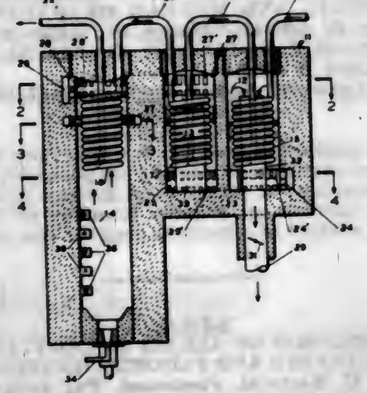
2,653,859

APPARATUS FOR PYROLYZING REACTANTS

Alfred L. Glaeser, Claymont, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

Application October 26, 1949, Serial No. 123,690

3 Claims. (Cl. 23—277)



1. In a pyrolysis furnace, the improvement which comprises a primary heat zone, a pyrolysis zone spaced from the primary heat zone and in direct communication therewith, a pyrolysis coil disposed in the pyrolysis zone, primary fuel burning means and cooling jets disposed in the primary heat zone, a secondary heat zone spaced apart from the primary heat zone and in juxtaposition to the pyrolysis zone, said secondary heat zone being concentrically disposed around a portion of the pyrolysis coil intermediate the ends thereof, secondary fuel burning means disposed in the secondary heat zone, said secondary fuel burning means being an annular gas-fired ring for generation of flame gases without impingement of said flame gases on the pyrolysis coil and

for passage of combustion gases from said annular gas-fired ring into direct contact with said pyrolysis coil, a superheat zone in spaced relationship to the pyrolysis zone, a superheat coil disposed in the superheat zone, a chamber connecting the superheat zone with the pyrolysis zone, tertiary fuel burning means disposed in the chamber, a preheat zone in spaced relationship to the superheat zone, a preheat coil disposed in the preheat zone, a chamber connecting the preheat zone with the superheat zone, a space reducer disposed within the superheat coil and a space reducer disposed within the preheat coil, said latter spaced reducer adapted to permit passage of the combustion gases therethrough and from the furnace.

2,653,860

ETCHING ALUMINUM USING SACCHARIC ACID AS A MODIFIER

Walter R. Meyer, Hamden, Conn., assignor to Enthone, Incorporated, New Haven, Conn., a corporation of Connecticut

No Drawing. Application March 9, 1953, Serial No. 341,829

9 Claims. (Cl. 41—42)

6. An aluminum-etching solution consisting of water and from 0.5% to 35% by weight of the composition of claim 1.

9. The process of etching a metal article consisting principally of aluminum which includes the steps of cleaning the article, preparing the solution of claim 6, heating said solution to a temperature between 60° and 190° F., subjecting the article to said solution for a period from 5 to 3600 seconds, and rinsing residual solution from the article.

2,653,861

ETCHING ALUMINUM USING HEXAHYDROXYHEPTANOIC ACID AS A MODIFIER

Walter R. Meyer, Hamden, Conn., assignor to Enthone, Incorporated, New Haven, Conn., a corporation of Connecticut

No Drawing. Application March 9, 1953, Serial No. 341,830

9 Claims. (Cl. 41—42)

6. An aluminum-etching solution consisting of water and from 0.5% to 35% by weight of the composition of claim 1.

9. The process of etching a metal article consisting principally of aluminum which includes the steps of cleaning the article, preparing the solution of claim 6, heating said solution to a temperature between 60° and 190° F., subjecting the article to said solution for a period from 5 to 3600 seconds. and rinsing residual solution from the article.

2,653,862

MONOISOPROPYL AMINE AS AN OCTANE IMPROVER OF LEADED GASOLINE

Harold M. Trimble, Leo A. McReynolds, and Bill Mitacek, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application March 3, 1949, Serial No. 79,512

5 Claims. (Cl. 44—69)

1. A composition of matter boiling in the gasoline boiling range and consisting essentially of gasoline; a small proportion of tetraethyl lead; and between 1 per cent and 20 per cent by volume of monoisopropylamine.

2,653,863

PROCESS OF PRODUCING INITIATING COMPOSITION CONTAINING LEAD AZIDE

Leon Rubenstein, Saltcoats, Scotland, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application October 16, 1951, Serial No. 251,627. In Great Britain December 5, 1950

7 Claims. (Cl. 52—21)

1. A method for the production of an initiating composition comprising a major proportion of lead azide and a minor proportion of a normal lead salt of dinitroresorcinol which comprises forming a precipitate by mixing an aqueous solution of a water-soluble normal lead salt of a monobasic acid with an aqueous solution containing a salt of hydrazoic acid as well as a normal and an acid salt of 2:4 dinitroresorcinol of which the cation has a soluble azide, the said acid salt of 2:4 dinitroresorcinol being present in amount at least $\frac{1}{10}$ of that of the normal salt of 2:4 dinitroresorcinol and the said mixing being carried out in the presence of dextrin in amount of from about 0.01% to 0.025% by weight of water present.

2,653,864

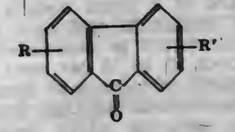
METHOD OF DESTROYING PLANTS

Arthur H. Schlesinger, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application December 26, 1951, Serial No. 263,485

4 Claims. (Cl. 71—2.3)

1. The method of destroying undesirable plants which comprises applying to said plants a toxic quantity of a herbicidal composition comprising a fluorenone compound having the formula



in which R and R' are selected from the class consisting of hydrogen and alkyl radicals of from 1 to 5 carbon atoms, said compound being present in said composition in a quantity which is toxic to plant life.

2,653,865

HERBICIDES

Milton Kosmin and Arthur H. Schlesinger, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application August 25, 1950, Serial No. 181,569

5 Claims. (Cl. 71—2.5)

1. A method for the destruction of plants which comprises applying to said plants a toxic quantity of a herbicidal composition containing as the active ingredient a compound selected from the class consisting of benzothiazole, 2-chlorobenzothiazole and 2-bromobenzothiazole, said active ingredient being present in said composition in a quantity which is injurious to said plants.

2,653,866
ALLYL FURFURYLIDENECYANOACETATE HERBICIDE

David T. Mowry and Arthur H. Schlesinger, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application March 22, 1951, Serial No. 217,062
5 Claims. (Cl. 71—2.5)

1. A herbicidal composition comprising a carrier and allyl furfurylidenecyanoacetate as the active ingredient, said allyl furfurylidenecyanoacetate being present in said composition in a phytotoxic concentration.

2,653,867
REDUCTION OF METAL OXIDES

Thayer Lindsley, New York, N. Y., and Lyall J. Lichty, Ottawa, Ontario, Canada, assignors to Quebec Metallurgical Industries Limited, Toronto, Ontario, Canada, a corporation of Canada

No Drawing. Application July 27, 1951, Serial No. 239,028
4 Claims. (Cl. 75—11)

1. In a method of smelting a high grade metal oxide ore in an electric furnace wherein said ore is melted with a flux and a reducing agent, which tends to combine with the metal produced, to form a molten burden comprising a slag and the metal component of said oxide, the smelting temperature being not substantially greater than the melting temperature of the metal produced, the improvement wherein said reducing agent consists essentially of finely divided substantially pure carbon and a finely divided non-carbonaceous reducing agent for said oxide in relative proportions such that said carbon is calculated to combine with from about 45 to about 85 per cent by weight of a given weight of oxygen to form carbon monoxide and said non-carbonaceous reducing agent is calculated to combine with from about 55 to 15 per cent by weight of said given weight of oxygen to form an oxide of said non-carbonaceous reducing agent, said non-carbonaceous reducing agent being silicon or silicon and aluminum and being selected from the group consisting essentially of ferrosilicon, aluminum ferrosilicon and mixtures thereof, said improvement being characterized by the production of a metal in which the combined amount of carbon and silicon does not exceed 0.15 per cent and the amount of either carbon or silicon does not exceed 0.10 per cent.

2,653,868
RECOVERY OF METALS FROM METALLURGICAL SLAG

Lyall J. Lichty, Ottawa, Ontario, Canada, assignor to Northfield Mines, Inc., New York, N. Y., a corporation of Delaware

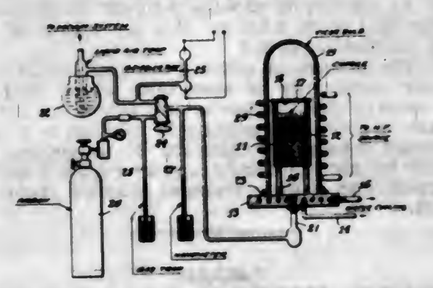
No Drawing. Application October 30, 1950, Serial No. 193,032
7 Claims. (Cl. 75—24)

1. The method of treating a metallurgical slag having as components a small amount of a metal selected from the group consisting of copper, nickel, cobalt and mixtures thereof and a substantially larger amount of iron and silica together with sulfur, said method consisting of bringing the slag to a molten state, introducing into said slag a reducing agent selected from the group consisting of ferrosilicon and an alloy of aluminum, iron and silicon in an amount not less than 10 per cent and not greater than 50 per cent of the amount theoretically required to precipitate all the iron in the slag thereby precipitating substantially all of said metal together with iron and some sulfur as matte, and thereafter permitting the precipitated matte to settle in a separate layer, the amount of said reducing agent used being substantially greater than that theoretically required to reduce to metal all of the metal of said group if present as oxide or silicate.

2,653,869
MANUFACTURE OF DUCTILE VANADIUM

Edward D. Gregory, Rochelle Park, William C. Lilliendahl, Mountain Lakes, and Donald M. Wroughton, Livingston, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 12, 1950, Serial No. 138,124
3 Claims. (Cl. 75—84)



2. The method of manufacturing vanadium comprising mixing vanadium trioxide with calcium and calcium chloride in the molar proportions of about 1 to 6 to 9, heating in an inert gas to a temperature between 900° and 1350° C. to effect a reaction between the vanadium trioxide and calcium and reduce the former, while melting the calcium and calcium chloride, and liberate free vanadium, as a powder not of overly small particle size, without too violent a reaction.

2,653,870
HIGH-STRENGTH PAPER AND METHOD OF MAKING

Richard P. Kast, Middletown, Ohio

No Drawing. Application October 22, 1949, Serial No. 123,104
2 Claims. (Cl. 92—3)

1. As a new article of manufacture, a paper product comprising a mixture of short wood pulp fibers and long raw manila tow fibers which are bound together by a latex binder, said short wood fibers comprising about 85% of the total fiber content and said long raw tow fibers comprising about 15% of the fibrous mass, said short fibers consisting of fibers of a substantially uniform length and on the order of a fraction of an inch and said long fibers consisting of fibers which are of a substantially uniform length and on the order of one inch in length and of a diameter greater than said short fibers, said latex bound fibrous mixture forming a paper which is characterized by extraordinary strength which is substantially beyond that of ordinary papers.

2,653,871
PREPARATION OF ENGRAVED RUBBER PRINTING PLATES

Clifford J. Marsh, Houston, Tex., assignor to Bemis Bro. Bag Co., St. Louis, Mo., a corporation of Missouri

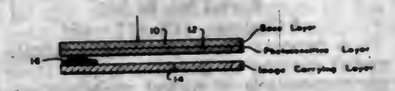
No Drawing. Application November 14, 1949, Serial No. 127,245
1 Claim. (Cl. 95—5.6)

The process of preparing an engraved mat of engraver's gum consisting of a relatively thin base layer of soft rubber bonded to a thicker face layer of hard rubber, comprising the steps of heating the mat to a temperature from 100° F. to 110° F., then applying a first coat of light-sensitive photographic emulsion comprising albumin and ammonium dichromate to the surface of the face layer of the heated mat, then applying a second coat of the same emulsion after the first coat has dried and while the mat is still warm, exposing the coated surface of the mat to light through a photographic negative, applying a coating of developing ink to the coated surface after exposure, washing off with water the said surface before the ink has completely dried to wash off the ink and the emulsion from unexposed areas of the surface leaving an ink image on the exposed areas, applying a protective coating over the image, and finally engraving the face layer of the mat utilizing the image as a guide.

2,653,872
PHOTOGRAPHIC PRODUCT COMPRISING A RUPTURABLE CONTAINER CARRYING A LIQUID FOR PROCESSING SAID PRODUCT

Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware

Application January 28, 1947, Serial No. 724,784
1 Claim. (Cl. 95—8)

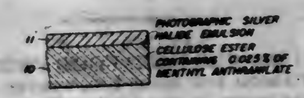


A composite film unit having a photosensitive element which comprises a transparent base layer on one side of which two silver halide layers are superposed and through the second side of which actinic light is transmitted for exposing said photosensitive element, a first of said silver halide layers comprising a pre-exposed fine grain silver halide emulsion supported upon the first-mentioned side of said transparent base, and a second of said silver halide layers constituting an unexposed thin, large grain silver halide emulsion in which a latent image is adapted to be formed upon exposure of said photosensitive element, said second silver halide layer being supported upon the outer surface of said first silver halide layer, an image-carrying layer for a transfer image secured to said photosensitive element in superposed relation thereto on the same side thereof as said second silver halide layer, and a rupturable container holding a liquid composition comprising a silver halide developer and a silver halide solvent rendered effective upon rupture of said container to develop a latent image in said second silver halide layer to silver and to form with unexposed silver halide in the second silver halide layer a soluble silver complex for transfer by imbibition to said image-carrying layer for formation therein of a reversed image in silver of said latent image, said rupturable container being mounted between said photosensitive element and said image-carrying layer at a position therebetween for releasing its liquid content upon rupture and, without removal of its ruptured portion, for permeation into said photosensitive element, including the second silver halide layer thereof, and into said image-carrying layer.

2,653,873
LIGHT-SENSITIVE PHOTOGRAPHIC ELEMENT

Jean Léauté, Vincennes, and Pierre L. Vandamme, Le Perreux sur Marne, France, assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application June 10, 1952, Serial No. 292,606
In France August 17, 1951
10 Claims. (Cl. 95—9)

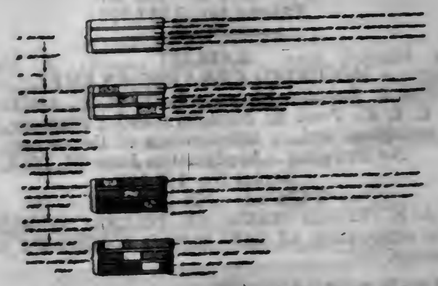


1. A photographic element comprising at least one photographic silver halide emulsion layer and a cellulose ester layer containing from 0.005 to 0.5 per cent by weight, based on the cellulose ester, of menthyl anthranilate.

2,653,874
PROCESS FOR THE PRODUCTION OF COLOR PHOTOGRAPHIC IMAGES

Paul Daniel Dreyfus, Van Nuys, Calif., assignor, by mesne assignments, to Bela Gaspar, Beverly Hills, Calif.

Application April 15, 1949, Serial No. 87,851
6 Claims. (Cl. 95—88)



1. In a process of producing a photographic dye image which includes exposing and developing a silver halide emulsion layer to produce a metallic silver image in said layer, the steps which comprise converting the metallic silver image in the developed emulsion layer into a silver salt image which is different from any remaining silver halide still contained in the layer and which is inert to diazo compounds in acid baths, then treating the emulsion layer containing such silver salt image with a diazo compound under an acid condition, coupling within said layer said diazo compound with an azo coupling component in the presence of said silver salt image to dye said layer and developing a metallic silver image in said layer from a silver salt therein and destroying said azo dye in said layer in proportion to the metallic silver image in said layer.

2,653,875

METHOD OF PREPARING PEANUTS AND THE PRODUCT RESULTING THEREFROM

Josephine N. Wergeland, Chevy Chase, Md.

No Drawing. Application June 11, 1953, Serial No. 361,690
8 Claims. (Cl. 99—126)

1. A method of preparing denuded peanut kernels for human consumption as a whole nut food having the characteristics described, said method comprising subjecting the denuded kernels to a soaking bath of water initially at substantially boiling temperature and for at least a duration until said water cools from its initial temperature to a much lower temperature while absorbing said water, and then cooking said kernels in a hot edible cooking oil at a temperature substantially between 285° F. and 315° F. for a period of time between about fifteen and twenty minutes.

2,653,876

STABILIZED CREAMED FOOD PRODUCTS

Helen L. Hanson and Hans Lineweaver, Berkeley, Calif., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application August 12, 1952, Serial No. 304,053
7 Claims. (Cl. 99—182)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A cooked food product of sauce-like to custard-like consistency comprising an edible liquid thickened with an amylaceous material at least 20% of which is waxy rice, said product being characterized in that it will exude substantially no watery liquid and will retain a smooth and creamy texture when frozen and thawed.

ERRATUM

For Class 99—193 see:
Patent No. 2,653,930

2,653,877

MODIFIED CERAMIC ENAMEL

Alden J. Deyrup, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 13, 1950, Serial No. 167,929
2 Claims. (Cl. 106—49)

1. A vitreous enamel composition, suitable for the enameling of light metals comprising as an enamel frit:

10 to 18 mole percent PbO
38 to 65 mole percent SiO_2
5 to 12 mole percent Li_2O

at least one of the group consisting of Na_2O and K_2O in amounts as follows:

up to 22 mole percent Na_2O
up to 20 mole percent K_2O, and from traces
up to 20 mole percent TiO_2

the total alkali metal oxide content

$(Li_2O+Na_2O+K_2O)$

of the enamel composition being between 25 and 36 mole percent, and the ratio of the sum of said silica content and twice the said titanium oxide content of the composition to the said total alkali metal oxide content of the composition being between 1.8 and 3.0, all of the said oxide being melted into said enamel composition, and mixed therewith as agents to reduce "tearing" of said enamel during firing alkali metal silicate and alkali metal metaborate, taken from the class consisting of sodium and potassium in such a ratio that the mixture contains 1% to 10% by weight of the enamel frit of an alkali metal silicate-alkali metal metaborate mixture consisting of 10%–30% SiO_2, 20%–40% B_2O_3, and 30%–60% alkali metal oxide.

2,653,878

PROCESS FOR THE PRODUCTION OF ELECTRODES

Johannes Sejersted and Oluf Christian Böckman, Oslo, Norway, assignors to Elektrokemisk A/S, Oslo, Norway, a corporation of Norway

No Drawing. Application November 18, 1949, Serial No. 128,252. In Norway November 20, 1948
4 Claims. (Cl. 106—56)

1. A method of preparing mixes for use in electrodes which comprises selecting bituminous pitch as a binder material, carbonizing a sample of such binder material at approximately the temperature at which the electrode is to be carbonized, testing the reactivity of such sample to CO_2 as herein defined, calcining dry material selected from the group consisting of pitch coke, petroleum coke and purified anthracite at a temperature below 1200° C. and at a temperature low enough so that the reactivity thereof to CO_2 as herein defined is at least 75% of the reactivity of the test sample of binder material and combining such dry material in powdered form with the binder material.

2,653,879

BONDING OF METAL CARBONYL DEPOSITS

Albert O. Fink, Dayton, Ohio, assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio

No Drawing. Application April 6, 1949, Serial No. 85,942
6 Claims. (Cl. 117—65)

1. In a process for depositing a firmly adhering metal coating of predetermined thickness by the decomposition of nickel carbonyl on an aluminum base, the steps comprising first applying a thin porous nickel film to the clean metal base to a depth of between about 0.00005 inch to 0.00015 inch by contacting the aluminum base heated to a temperature in the range of 375° F. to 400° F. with a stream of gaseous nickel carbonyl diluted with a non-oxidizing gas, thereafter heating said thinly coated base to a temperature in the range of 500° F. to 1200° F. while maintaining an atmosphere of CO_2 about the heated aluminum base, and then exposing said nickel coated aluminum base to nickel carbonyl gas while said base is heated to a temperature high enough to decompose said carbonyl gas and deposit a coating of nickel of the desired thickness.

2,653,880

HEAT-ACTIVATED TEMPORARILY PRESSURE-SENSITIVE ADHESIVE TAPE

James O. Hendricks, White Bear Lake, and Ambrose F. Schmelzle, St. Paul, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

No Drawing. Application September 15, 1949, Serial No. 115,958
6 Claims. (Cl. 117—68.5)

1. A normally non-tacky heat-activatible flexible adhesive sheet material capable of being

stacked or rolled on itself at normal room temperatures without blocking, capable of being unwound from roll form with substantially no adhesive tension, and which after removal from the roll, activation by heating, and cooling to room temperature remains temporarily tacky and pressure-sensitive, said sheet material comprising a thin flexible backing member coated on at least one surface with a heat-activatible and potentially temporarily tacky adhesive composition comprising a low acid number, fusible heat reaction product of the following components in the indicated proportional molar equivalents:

Monoethanolamine	70–100
Ethylene diamine	30– 0
Sebacic acid	95– 50
Dimerized fatty oil acids	5– 50

and wherein the proportional molar equivalents of said amines and of said acids each total substantially 100; the proportional molar equivalents of said ethylene diamine being not greater than about six-tenths the proportional molar equivalents of said dimerized fatty oil acids; and, where the amount of ethylene diamine is zero, the proportional molar equivalents of said dimerized fatty oil acids being not greater than about 40.

2,653,881

HEAT-ACTIVATABLE SUSTAINED-TACK ADHESIVE TAPE

Robert E. Vetter, Western Springs, Ill., assignor to Mid-States Gummed Paper Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application December 28, 1950, Serial No. 203,236
2 Claims. (Cl. 117—122)

1. A heat-activatable sustained-tack adhesive sheet comprising a backing coated with a composition comprising zero acid number hydrocarbon terpene resin having a melting point of the order of 115° C. and at least about an equal amount of the heat reaction product of the following components in the indicated proportional molar equivalents:

Monoethanolamine	70–100
Ethylene diamine	30– 0
Sebacic acid	95– 50
Dimerized fatty oil acids	5– 50

wherein the proportional molar equivalents of the amines and of the acids each total substantially 100; the proportional molar equivalents of the ethylene diamine being not greater than about six-tenths the proportional molar equivalents of the dimerized fatty oil acids; and, where the amount of ethylene diamine is zero, the proportional molar equivalents of the dimerized fatty oil acids being not greater than about 40.

2,653,882

CLEANING AND INHIBITING CORROSION OF METAL TANKS OF SHIPS

Richard S. Treseder, Oakland, Calif., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application March 10, 1951, Serial No. 215,018
4 Claims. (Cl. 134—10)

4. A cleaning and corrosion inhibiting method for ferruginous metal tanks of seagoing, cargo-carrying aquatic vessels at sea which comprises directing against the inner walls of said tanks, containing residual amounts of petroleum products, unheated fresh water having dissolved therein as the sole effective corrosion inhibitor an alkaline agent whose 0.01 molar solution has a pH of greater than about 7.8, thereby forming a mixture of said petroleum products and said solution, separating the solution from the removed products, and re-using said solution for further washing.

2,653,883

COMBINATION STEEL AND DIE CASTING CLEANING PROCESS

Julius A. Thomas, Monroe, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

Application December 8, 1951, Serial No. 259,851
3 Claims. (Cl. 134—30)



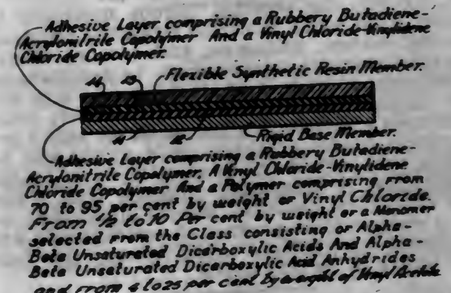
1. The process of cleaning steel and die cast articles in a single container comprising filling said container with an aqueous base cleaning solution upon which is floated a layer of a water insoluble grease solvent, agitating one portion of the surface area of the container sufficiently vigorously to substantially completely dissipate the grease solvent layer over the agitated area and emulsify the grease solvent, immersing the die cast articles into the container through an unagitated area, removing the die cast articles and immersing and removing the steel articles only through the agitated area.

2,653,884

COMPOSITE ARTICLE

Harold A. Hussey, Belmont, and Donald D. Wright, Watertown, Mass., assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application November 9, 1950, Serial No. 194,838
5 Claims. (Cl. 154—43)



1. A composite structure comprising a rigid structural-metal member, a flexible member opposing said structular-metal member in a generally face-to-face relationship, said flexible member comprising a plasticized polymer of a monomeric material comprising predominantly a chloroethylene containing from one to two chlorine atoms on one only of the carbon atoms, a flexible resilient adhesive layer interposed between said structural-metal member and said

flexible member and in direct adherent contact with the inner face of said flexible member, said adhesive layer comprising a vulcanized rubbery butadiene-acrylonitrile copolymer having a combined acrylonitrile content of from 10 to 45 per cent by weight and a vinyl chloride-vinylidene chloride copolymer, and a second flexible resilient adhesive layer interposed between said structural-metal member and the first said adhesive layer and in direct adherent contact with their opposing faces, said second adhesive layer comprising a vulcanized rubbery butadiene-acrylonitrile copolymer having a combined acrylonitrile content of from 10 to 45 per cent by weight, a vinyl chloride-vinylidene chloride copolymer and a polymer comprising from 70 to 95 per cent by weight of vinyl chloride, from 4 to 25 per cent by weight of vinyl acetate and about 1 per cent by weight of maleic acid.

2,653,885

TEMPORARY PROTECTION OF UNVULCANIZED RUBBERY SURFACES

Thomas C. Harper, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application December 4, 1950, Serial No. 199,157
7 Claims. (Cl. 154—46)



1. In combination with an article having an external surface comprising an unvulcanized vulcanizable milled rubber, a relatively thin, unwoven, non-fibrous, flexible and continuous layer comprising a superpolyamide disposed over said surface in face-to-face contact therewith held in place by the surface tack of said article and readily strippable therefrom.

2,653,886

PROCESS FOR TREATING FIBROUS MATERIALS TO IMPROVE THEIR BONDS WITH RUBBER

Alexander Henderson Gentle and Thomas Jackson, Spondon, near Derby, England, assignors to British Celanese Limited, a corporation of Great Britain

No Drawing. Application June 27, 1950, Serial No. 170,702. In Great Britain June 30, 1949
18 Claims. (Cl. 154—52)

1. Process for treating fibrous materials the molecules of which comprise repeating units containing carbon, hydrogen, and a more electronegative element than carbon, to facilitate the subsequent formation of strong bonds with rubber during vulcanisation of the rubber, which comprises impregnating the material with a permanently fusible synthetic resin as the sole adhesive, said resin being in solution in an organic liquid that is completely miscible with water, and drying the material, the synthetic resin being a condensation product of acetaldehyde with a phenol, and the said solution being free from any source of formaldehyde.

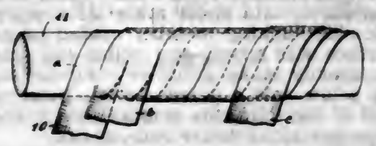
2,653,887

METHOD OF PRODUCING TUBING

Games Slayter, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware

Application August 1, 1947, Serial No. 765,622
3 Claims. (Cl. 154—83)

1. The method of producing tubing comprising the steps of impregnating a glass fiber fabric with a curable resinous material in an intermediate stage of polymeric growth, substantially completely curing the resinous material of the impregnated glass fiber fabric, annealing the cured fabric to remove substantially all of the strain therefrom, applying a binding coat to the



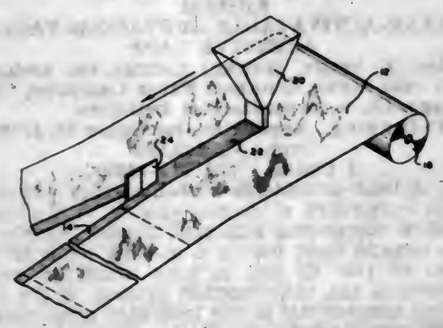
cured and annealed fabric of substantially less thickness than the thickness of the fabric, turning said fabric with the binding coat in overlapping relation about a mandrel to form a tubing, and then curing the binding coat to form an integrated tubing which is relatively free of strain.

2,653,888

METHOD OF FORMING CONTAINER BLANKS

Mark Hyman, Jr., Belmont, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware

Application February 24, 1949, Serial No. 78,105
1 Claim. (Cl. 154—116)



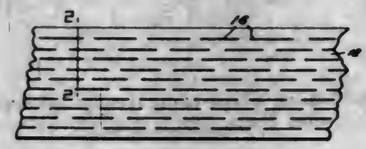
In the process of forming a container blank from a piece of sheet material, the width between the longitudinal edges of said sheet material being twice the width between the longitudinal edges of said container blank, said piece of sheet material comprising a ply of metal foil the outer face of which is backed by a thin layer of paper and the inner face of which is coated with a thin layer of polyvinyl butyral, the steps of coating on said layer of polyvinyl butyral, along the longitudinal center line of said sheet material, a narrow strip of adhesive, said adhesive comprising ethyl cellulose, said layer of polyvinyl butyral and said strip of adhesive forming discrete laminations, cutting the sheet material and strip along said longitudinal center line to form at least a container blank having a first longitudinal edge constituting said longitudinal center line and a second longitudinal edge constituting one of said longitudinal edges of said sheet material, folding the container blank along a line substantially midway between said first longitudinal edge and second longitudinal edge of said container blank to provide two substantially planar container portions the layers of polyvinyl butyral of which are adjacent to each other, and securing said first longitudinal edge to said second longitudinal edge, whereby said first longitudinal edge and said second longitudinal edge of said container blank have the characteristic of peeling evenly throughout their length.

2,653,889

BUBBLING REDUCTION FOR HIGH TEMPERATURE RESISTING BONDING

Karl F. Hager and Hans I. Lindenmayr, Huntsville, Ala., and Morris Rosenthal, El Paso, Tex.; said Rosenthal assignor to General Electric Company, a corporation of New York; said Hager and said Lindenmayr assignors to the United States of America as represented by the Secretary of the Army

Application September 14, 1951, Serial No. 246,666
24 Claims. (Cl. 154—125)



1. A heat resistant laminate comprising a non-porous metal base material, an adhesive effective at high temperatures painted on the surface of said base metal, and a metal foil bonded to the base material by the adhesive, said metal foil having grooves formed in its surface to prevent bubbling of the foil.

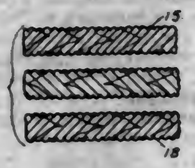
24. The method of forming a high heat reflective laminate having bubbling and blistering inhibited characteristics at high temperatures which comprises, painting a non-porous metal wall with a high heat resisting adhesive, applying a highly reflective metal foil to said painted wall to form said laminate, cutting deep grooves in said foil, and heating said laminate to high temperature to effect adhesion of said grooved foil to said metal wall.

2,653,890

METHOD OF PROCESSING WOOD

Cornelius D. Dosker, Louisville, Ky., assignor to Gamble Brothers, Inc., Louisville, Ky., a corporation of Kentucky

Application January 18, 1950, Serial No. 139,269
2 Claims. (Cl. 154—125)



1. In the art of producing laminated lumber, the process of bonding at least two rough-surfaced unplaned wooden boards together comprising: indenting each rough wooden surface to be bonded with a multiplicity of closely spaced shallow and narrow openings, which are cross-sectionally defined by convex walls diverging outwardly from a sharp bottom point and terminating at the surface in narrowly spaced rounded lands, and simultaneously compressing the wood between adjacent openings to form said rounded lands and at the same time loosen the fiber structure thereof so as to change the entire fiber structure of the indented surface into a uniform and absorbent shallow network of interconnected fibers while leaving the wood underneath this network with its fibers intact; applying to each indented surface an unset wood bonding agent to impregnate said network and to cause the loosened fibers thereof to swell and substantially close said openings; assembling the boards into laminated relationship with said impregnated surfaces in face to face contact; and applying mechanical pressure to hold said laminae firmly together while the bonding agent sets.

2,653,891

PROCESS OF TREATING FIBROUS MATERIALS TO IMPROVE THEIR BONDS WITH RUBBER AND THE PRODUCTS THEREOF

Alexander Henderson Gentle and Thomas Jackson, Spondon, near Derby, England, assignors to British Celanese Limited, a corporation of Great Britain

No Drawing. Application June 27, 1950, Serial No. 170,701. In Great Britain June 30, 1949
17 Claims. (Cl. 154—126)

1. Process for treating fibrous materials the molecules of which comprise repeating units containing carbon, hydrogen and a more electronegative element than carbon, to facilitate the subsequent formation of strong bonds with rubber during vulcanisation of the rubber, which comprises impregnating the material with a water-insoluble, alcohol-soluble synthetic resin in solution in a volatile, neutral organic liquid that is completely miscible with water, and drying the material, the synthetic resin being a product obtained by condensing formaldehyde with resorcinol in molar proportions of CH_2O to resorcinol ranging from 1:2 to 1:1, under non-alkaline conditions, and the said solution being free from any source of additional formaldehyde and from any adhesive other than said resin.

6. Textile material comprising yarn of a substance selected from the class consisting of cellulose and regenerated cellulose, said material being impregnated with 0.5 to 2% of its weight of water-insoluble, alcohol-soluble synthetic resin obtained by condensing formaldehyde with resorcinol in molar proportions of CH_2O to resorcinol ranging from 6:7 to 1:1 in the presence of an acid catalyst, said fabric being free from any source of additional formaldehyde and from any adhesive other than said resin.

2,653,892

PROCESS FOR TREATING FIBROUS MATERIALS TO IMPROVE THEIR BONDS WITH VINYL CHLORIDE POLYMERS AND THE PRODUCTS THEREOF

Alexander Henderson Gentle and Thomas Jackson, Spondon, near Derby, England, assignors to British Celanese Limited, a corporation of Great Britain

No Drawing. Application May 15, 1952, Serial No. 288,038. In Great Britain May 31, 1951
13 Claims. (Cl. 154—136)

7. A composite material comprising a thermoplastic polymer of vinyl chloride adhering to synthetic-resin coated, heat-stable, fibre-forming material, said material being composed of a linear polymer containing recurring units of carbon, hydrogen, and an element more electronegative than carbon, said resin being a water-insoluble, alcohol-soluble condensation product of formaldehyde with resorcinol, in molar proportions between 1:2 and 1.1:1, and being the sole adhesive between the vinyl polymer and the

textile material, and the composite material being free from any source of additional formaldehyde.

8. Process for making a composite material, wherein a dispersion of thermoplastic polymer of vinyl chloride in a plasticiser therefor is applied over the surface of a woven fabric of which at least 50% by weight of the yarn is composed of high tenacity regenerated cellulose continuous filaments, the said fabric being coated with a synthetic resin which is a water insoluble, alcohol soluble condensation product of an aldehyde and a phenol in molar proportions between 1:2 and 1.1:1, and the resin coated fabric is heated to form said dispersion into a gel, the said resin being the sole adhesive between the vinyl polymer and the textile material and the composite material being free from any additional source of formaldehyde.

2,653,893

METHODS OF APPLYING OLIGODYNAMIC SILVER AND ARTICLES PRODUCED THEREBY

Isabella B. Romans, Lafayette Hill, Pa.

No Drawing. Application August 20, 1948, Serial No. 45,442
4 Claims. (Cl. 167—14)

1. A method of treating a container to preserve its contents, comprising treating at least the inner surfaces of the container with an ionic aqueous solution of silver oxide so as to wet the same for about 1 to 5 minutes, thereby depositing an invisible layer of ionic oligodynamic silver on the surface of the contacted portions, the concentration of said solution being at least saturated, and thereafter drying the container.

2,653,894

INSECT REPELLENTS

Melvin S. Newman, Columbus, Ohio, and William B. Wheatley, Syracuse, N. Y., assignors to the United States of America as represented by the Secretary of the Army

No Drawing. Original application December 29, 1948, Serial No. 68,043. Divided and this application November 15, 1950, Serial No. 204,499
2 Claims. (Cl. 167—22)

1. An *Aedes aegypti* repellent composition comprising a trimethyl-octene-diol in which the hydroxyl groups are alcoholic and attached to methyl-substituent-carrying carbon atoms on either side of the double bond, in a non-toxic insect-repellent-adjuvant as a carrier therefor.

2,653,895

INSECT REPELLENTS

Nathan L. Drake, College Heights, Md., and Sidney Melamed, Philadelphia, Pa., assignors to the United States of America as represented by the Secretary of the Army

No Drawing. Original application January 11, 1949, Serial No. 70,383. Divided and this application August 30, 1950, Serial No. 187,831
2 Claims. (Cl. 167—30)

1. An *Aedes aegypti* repellent composition comprising the butyl ester of N-benzyl glycine in a non-toxic insect-repellent-adjuvant as a carrier therefor.

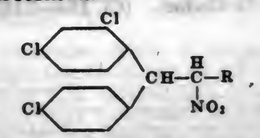
2,653,896

INSECTICIDAL COMPOUNDS

Edward B. Hedge, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application February 10, 1951, Serial No. 210,432
6 Claims. (Cl. 167—30)

4 An insecticidal composition comprising from about 0.0125 to about 5.0% of a compound of the general formula:



wherein R is an alkyl radical selected from the group CH_3 and C_2H_5, and a carrier therefor.

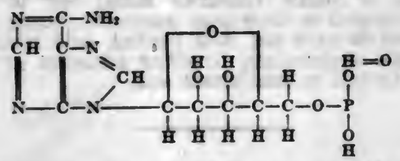
2,653,897

ALKALI METAL SALTS OF ADENYLIC ACID

Edward K. Harvill, Essex, Conn., assignor to Ernst Bischoff Company, Inc., Ivoryton, Conn., a corporation of Connecticut

No Drawing. Application June 10, 1949, Serial No. 98,406
2 Claims. (Cl. 167—65)

1. A stable sterile aqueous solution of a major proportion of monosodium adenylate and a minor proportion of disodium adenylate derived from an adenylic acid having the formula:



said solution having a pH of between 5.55 and 7.

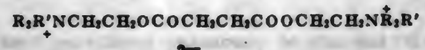
2,653,898

CURARIZING COMPOSITION

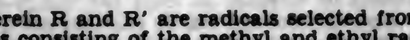
Julio C. Castillo, White Plains, and Arthur P. Phillips, New York, N. Y., assignors to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y., a corporation of New York

No Drawing. Application December 23, 1949, Serial No. 134,859
6 Claims. (Cl. 167—65)

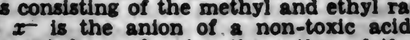
1. A pharmaceutical composition containing as the active curarizing agent a compound of the general formula:



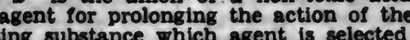
wherein R and R′ are radicals selected from the class consisting of the methyl and ethyl radicals and x^- is the anion of a non-toxic acid, and an agent for prolonging the action of the curarizing substance which agent is selected from the class of compounds represented by the Formulae I and II



(I)



(II)



wherein R^1 and R^2 are radicals selected from the class consisting of the methyl and ethyl radicals and $—NR^1R^2$ together is a pyrrolidino radi-

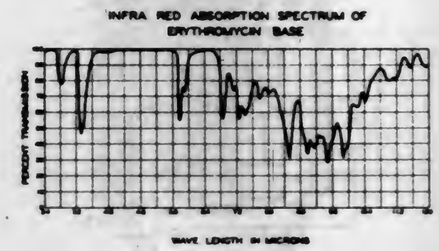
cal, R^3 is a radical selected from the class consisting of the methyl, ethyl, benzyl radicals and hydrogen, x^- is an anion of a non-toxic acid and n is an integer from 1 to 8.

2,653,899

ERYTHROMYCIN, ITS SALTS, AND METHOD OF PREPARATION

Robert L. Bunch and James M. McGuire, Indianapolis, Ind., assignors to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

Application April 14, 1952, Serial No. 282,246
10 Claims. (Cl. 167—65)



5. An antibiotic substance of the group consisting of nitrogenous base and the acid addition salts thereof, said base having the following properties: a molecular weight of about 754±7, obtained from titration data; a pK'_a of 8.7 when titrated in dimethylformamide-water solution (2:1, parts by volume); and, in a chloroform solution of about 3.14 percent concentration (weight-volume) the following distinguishable bands in an infra-red absorption spectrum over the range of 2.4μ to 12.0μ: 2.82, 3.32, 5.77, 5.91, 6.86, 7.13, 7.25, 7.42, 7.78, 8.02, 8.54, 8.98, 9.16, 9.32, 9.49, 9.86, 10.23, 10.42, 10.9, 11.17, 11.55 and 11.9.

2,653,900

VITAMIN B_{12} PURIFICATION PROCESS

Arnold J. Holland, Penn Laird, Va., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application June 7, 1951, Serial No. 230,424
7 Claims. (Cl. 167—81)

2. The process that comprises contacting an aqueous solution containing a vitamin B_{12} active substance and contaminants, wherein said vitamin B_{12} active substance comprises at least 0.01% of the total solids, with zinc hydroxide, and separating the zinc hydroxide containing a substantial portion of said contaminants from a purified residual solution containing said vitamin B_{12} active substance.

2,653,901

ADENYLIC ACID SALTS-GELATIN COMPOSITION

Edward K. Harvill, Essex, Conn., assignor to Ernst Bischoff Company, Inc., Ivoryton, Conn., a corporation of Connecticut

No Drawing. Application September 16, 1952, Serial No. 309,954
18 Claims. (Cl. 167—82.9)

10. A therapeutic composition to provide a prolonged therapeutic action in the body comprising a mixture of adenylic acid and a mono-alkali metal salt of adenylic acid dissolved in an aqueous, slowly absorbable menstruum comprising gelatine and having a pH within the range from 5 to 5.5, said menstruum being solid at normal body temperatures.

2,653,902

DEODORANT, ANTIPERSPIRANT COMPOSITIONS

Francis M. Thurmon, Boston, Mass., assignor to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application September 28, 1950, Serial No. 187,359
9 Claims. (Cl. 167—90)

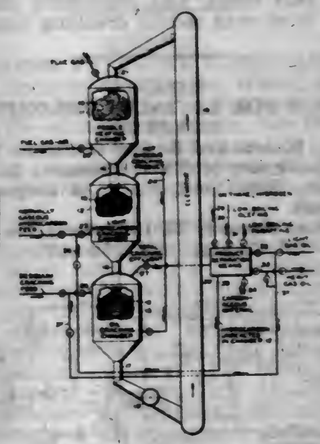
1. As a new composition of matter, an antiperspirant and deodorant preparation comprising a cation exchange resin having the carboxy radical as the functional group thereof and a water-soluble aluminum salt of an organic acid, dispersed in a hydrophilic base which contains water at least in the external phase.

2,653,903

HYDROCARBON CONVERSION

Myron O. Kilpatrick, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application June 9, 1950, Serial No. 167,129
9 Claims. (Cl. 196—55)



1. A combination process for cracking normally gaseous hydrocarbon materials and higher boiling normally liquid hydrocarbon materials, comprising gravitationally passing a flowable contiguous mass of solid particulate material through a series of zones comprising a solids heating zone, a first cracking zone positioned below said solids heating zone, and a second cracking zone positioned below said first cracking zone; introducing a combustible fuel mixture containing sufficient oxygen for utilization described hereafter into said solids heating zone and therein burning said fuel; passing hot combustion gas formed by said burning in countercurrent flow and heat exchange relation with that portion of said solids mass in said heating zone to heat same to a predetermined temperature above a cracking temperature to be utilized in said first cracking zone; introducing a normally gaseous hydrocarbon into said first cracking zone and therein heating same to said crack-

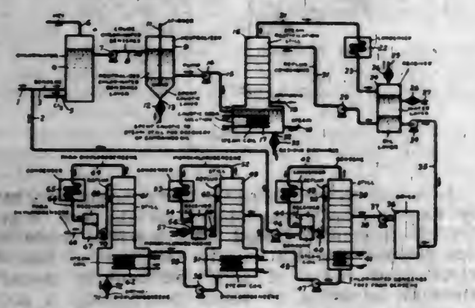
ing temperature to form cracking product in countercurrent flow and heat exchange relation with a portion of said solids mass heated as above described; introducing a hydrocarbon oil in the liquid phase into said second cracking zone in concurrent flow relation therein with a portion of said solids mass previously utilized in said first cracking zone; the temperature of the solids entering said second cracking zone being too low to effect substantial cracking of said oil; withdrawing hot gaseous effluent from said first cracking zone and introducing same into said second cracking zone in countercurrent flow and heat exchange relation with said oil and said solids mass therein, whereby oil and solids in said second cracking zone are heated, and oil is uniformly distributed therein on the surfaces of said solids, and gaseous cracking product in said effluent is quenched; the temperature of the resulting solids-gaseous effluent admixture in said second cracking zone being above that required for cracking said oil, whereby said oil on the solids surfaces is cracked and resulting carbonaceous by-product is uniformly deposited on said surfaces; withdrawing solids coated with said carbonaceous by-product from said second cracking zone, and passing same to said solids heating zone; in said solids heating zone burning said carbonaceous by-product with oxygen introduced with said combustible mixture as above described, whereby said carbonaceous by-product is efficiently utilized as fuel to produce hot heat exchange gas in said heating zone and solids are reconditioned for recirculation through said zones, and recovering effluents of cracking from said second cracking zone.

2,653,904

PROCESS FOR REFINING CHLORINATED BENZENES

Delbert L. Hanna and Barney O. Strom, Syracuse, N. Y., assignors to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

Application January 22, 1952, Serial No. 267,604
6 Claims. (Cl. 202—57)



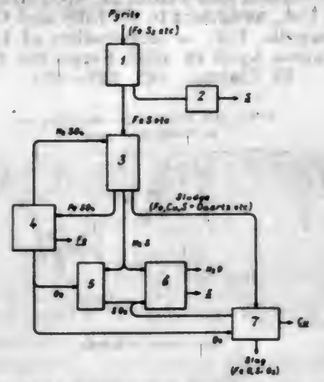
6. In a method of refining nuclear chlorinated aromatic hydrocarbon mixtures selected from the group consisting of chlorinated benzenes, chlorinated toluenes, chlorinated xylenes, chlorinated naphthalenes and chlorinated thiophenes containing as impurities corrosive compounds, the improvement which comprises subjecting the crude nuclear chlorinated aromatic hydrocarbon mixture to steam rectification in the presence of both caustic solution and ammonia, removing the desired chlorinated product as distillate from the mixture and leaving as bottoms the impurities in the nuclear chlorinated aromatic hydrocarbon mixture.

2,653,905

PROCESS FOR TOTAL TREATMENT OF COPPER-CONTAINING IRON PYRITES

Sigurd Arthur Aannerud, Thamshavn, Norway, assignor, by mesne assignments, to Pyror Limited, Pembroke, Bermuda, a corporation of Bermuda

Application November 22, 1948, Serial No. 61,376
In Norway December 6, 1947
4 Claims. (Cl. 204—112)



1. A process of treating an iron ore comprising sulphur and containing valuable metal constituents including copper, which includes the steps of (a) heating the ore under non-oxidizing conditions to a temperature below sintering temperatures of the ore so as to decompose said ore and produce gaseous sulphur, leaving a porous calcined product with substantially all of the original FeS_2 present reduced to FeS, (b) dissolving the major part of the iron content of said calcined product selectively by leaching fractional portions of said calcined product with dilute sulphuric acid solution, leaving undissolved the major part of the copper and other of said valuable metal constituents present forming a resultant mixture comprising ferrous sulphate solution, gaseous hydrogen sulphide, and a sludge containing undissolved solid matter, and (c) electrolyzing said ferrous sulphate solution in a diaphragm electrolytic cell to electrolytically recover metallic iron and sulphuric acid and gaseous oxygen, (d) subjecting said sludge to a roasting treatment with oxygen recovered by step (c) to produce gaseous sulphur dioxide and effect recovery of said valuable metal constituents, and (e) reacting said sulphur dioxide with gaseous hydrogen sulphide from said mixture in the presence of a catalyst for forming liquid sulphur and steam.

2,653,906

ANTICORROSION NEEDLE MOUNTING

Gottlob Bitzer, Lincoln Park, Pa., assignor to Textile Machine Works, Wyomissing, Pa., a corporation of Pennsylvania

Application August 23, 1950, Serial No. 180,972
4 Claims. (Cl. 204—197)



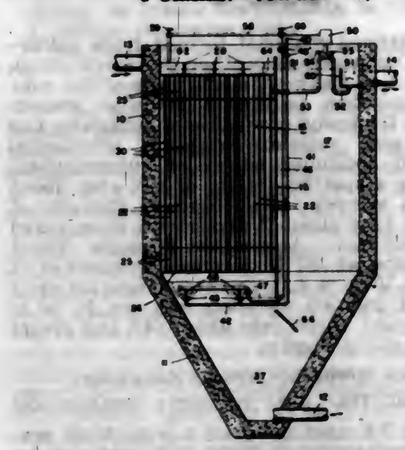
1. In a knitting machine, a needle assembly comprising a needle bed essentially of copper, needle receiving slots in said bed, bare steel needles fitting in said slots in contact with said bed, a clamp holding said needles against said bed, and an essentially zinc material interposed between said clamp and said needles.

2,653,907

SEWAGE RECIRCULATION

Llewellyn Brooks Griffith, Austin, Tex.

Application December 6, 1948, Serial No. 63,799
6 Claims. (Cl. 210—8)



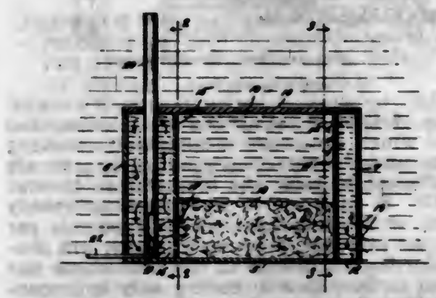
1. A sewage treatment tank having an entrance, an exit, and a sludge receiving portion, an aeration chamber above the sludge receiving portion positioned to one side of the tank, a settling chamber parallel to the aeration chamber and located in the other side of the tank, a vertical baffle transverse of the direction of flow of the sewage extending from side to side of the tank and rising above the water level to separate the aeration chamber from the settling chamber, means for passing air bubbles thru the aeration chamber, and a sloping deflector above the settled sludge and beneath the edge of the vertical baffle adjacent the aeration chamber for directing gas bubbles from the settled sludge thru the aeration chamber, whereby to prevent the gas bubbles from carrying septic sludge from the settling chamber to the exit of the tank, thus preventing pollution of the treated effluent by the septic sludge particles carried by the gas bubbles.

2,653,908

SUBMERGED FILTER FOR AQUARIUMS

Clinton Rodda, Los Angeles, Calif.

Application September 27, 1950, Serial No. 187,052
1 Claim. (Cl. 210—16)



A submerged filter for aquariums comprising an enclosure with a central compartment and a pair of end compartments, a filter disposed in the lower portion of the central compartment, a bad water inlet at the lower portion of one end compartment, an outlet to the central compartment at the upper portion of the said last mentioned end compartment, an outlet from the central compartment at one end of the filtering material, a pipe depending into the remaining end compartment and terminating above the bottom thereof and an air supply line disposed into the last mentioned end compartment and having a portion disposed up into said pipe, to cause an upward suction therein when air is disposed through said air supply line.

2,653,909

SOLUBLE OILS COMPRISING NEUTRALIZED OXIDIZED PETROLEUM OILS

David Frazier, Bay Village, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application December 28, 1949, Serial No. 135,537
12 Claims. (Cl. 252—34.7)

11. A machining fluid comprising an emulsion of water with an oxidized, neutralized oil prepared by oxidizing a refined lubricating oil solvent extracted to have a viscosity ranging from about 75 to 600 SUS at 100° F., an A. S. T. M. aniline point of at least 105° C. and then neutralizing said oxidized oil with a strong base dissolved in a mutual solvent for the base and the soap resulting from said neutralization, said oil containing at least about 0.1% by weight of said solvent.

2,653,910

EXTREME PRESSURE LUBRICANTS

Raymond Spencer Airs, Heston, Wirral, and Vernon Warner David, Chester, England, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application February 13, 1951, Serial No. 210,788. In Great Britain February 16, 1950
7 Claims. (Cl. 252—45)

1. An oleaginous lubricating composition comprising a major amount of a lubricating oil base having incorporated therein a minor amount, sufficient to provide the composition with extreme pressure properties, of an organic trichalcogenone, selected from the class consisting of 3 - chalcogenono - 4 - aryl - 1,2 dichalcogenole, 3 - chalcogenono - 5 - aryl - 1,2 dichalcogenole, 3 - chalcogenono - 4,5 diaryl-1,2 dichalcogenole, 3-chalcogenono-4 alkoxyaryl-1,2 dichalcogenole and 3-chalcogenono-5 alkoxyaryl-1,2 dichalcogenole, wherein each of the two ring chalcogen atoms has an atomic number of at least 16 and wherein each aryl substituent is a mono-nuclear aryl substituent, the chalcogen atoms being selected from the group consisting of sulfur and selenium atoms.

2,653,911

HYDROCARBON OIL COMPOSITIONS CONTAINING TELOMERIC POLYALKYL OXO-ESTERS AS ANTI-FOAMING AGENTS

Joseph E. Fields and Tracy M. Patrick, Jr., Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application February 1, 1952, Serial No. 269,602
12 Claims. (Cl. 252—56)

1. A hydrocarbon oil composition containing up to 1.0 per cent by weight, based on the total

composition, of a liquid telomeric polyalkyl oxoester having the general formula



in which R is an alkyl radical of from 1 to 12 carbon atoms, and R' and R'' are selected from the class consisting of alkyl, cycloalkyl, aryl, alkaryl and aralkyl radicals of from 1 to 18 carbon atoms and n is an integer greater than one.

2,653,912

LIQUID DIELECTRIC COMPOSITIONS

Sidney D. Ross, Williamstown, Moushy Markarian, North Adams, and Mathew Nazzewski, Adams, Mass., assignors to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts

No Drawing. Application October 20, 1950, Serial No. 191,308

2 Claims. (Cl. 252—66)

1. A liquid dielectric composition consisting essentially of the condensation products of radicals obtained by the pyrolytic decomposition of starting materials selected from the group consisting of benzotrifluoride and bis-trifluoromethyl benzenes at a glowing filament at from 300 to 1500° C.

2,653,913

SYNTHETIC DETERGENT CAKES

Willem J. D. van Dijck, The Hague, Netherlands, and Bradford P. Geyer, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application January 21, 1950, Serial No. 139,965

7 Claims. (Cl. 252—161)

1. A detergent in bar or cake form consisting essentially of a member of the group consisting of water-soluble anionic synthetic organic sulfonated and sulfated detergents, a paraffin wax binder therefor which has a melting point of at least 130° F., and as an emollient a member of the group consisting of alkali metal and ammonium pectates, tannates, humates and alginates, in the proportions of 68% to 84% by weight of said detergent, 15% to 30% of said binder, and 1% to 2% of said emollient.

2,653,914

METHOD OF RECLAIMING SCRAP VULCANIZED MATERIAL USING AN OLEFIN AS RECLAIMING AGENT

Joseph Clifton Elgin, Princeton, N. J., and Edward F. Sverdrup, Buffalo, N. Y., assignors to U. S. Rubber Reclaiming Co., Inc., Buffalo, N. Y.

No Drawing. Original application November 2, 1950, Serial No. 193,688. Divided and this application September 12, 1951, Serial No. 246,327

6 Claims. (Cl. 260—2.3)

1. The process of reclaiming scrap vulcanized material which comprises mechanically working the scrap under compacting pressure to generate heat sufficient to raise the temperature to over about 325° F. as it moves forward progressively at a rate of not less than about 50 pounds per hour in the presence of an unsaturated hydrocarbon of the class consisting of hexenes, heptenes, and octenes.

2,653,915

PROCESSES OF RECLAIMING RUBBER AND RECLAIMED RUBBER PRODUCTS

Joseph C. Elgin, Princeton, N. J., and Edward F. Sverdrup, Buffalo, N. Y., assignors to U. S. Rubber Reclaiming Co. Inc., Buffalo, N. Y.

Application February 3, 1951, Serial No. 209,287

27 Claims. (Cl. 260—2.3)

1. A reclaimed material formed from sulfur-vulcanized rubbery hydrocarbon polymeric scrap, at least 50% of the monomeric units of the rubbery hydrocarbon polymeric material therein being from the group consisting of butadiene and isoprene, said reclaim retaining substantial amounts of combined sulfur of vulcanization, and having a specific gravity of not over about 1.20, and a Mooney (ML/180/1.5–1) viscosity of from about 32 to about 71 and having when cured in the Reclaimers' Association Formula (50%) for 30 minutes at 287° F. a tensile strength of at least about 705 p. s. i., a percent elongation of at least about 240, an abrasion loss (cc./h. p. h. 8/0–280 paper) of not over about 642, and giving a quality factor defined as

$$\frac{\text{tensile strength} \times \text{percent elongation}}{\text{Mooney (ML/180/1.5–1) viscosity} \times \text{abrasion loss}}$$

of at least 7.8, said material having been prepared by mechanical working of the scrap under compacting pressure while passing thru a zone under conditions whereby heat generated by the working is accumulated to raise the temperature to not substantially less than 325° F. as it moves forward progressively at a rate of at least 40 pounds per hour in the presence of a chemical plasticizing agent and a physical softener, followed by cooling during the progressive movement thereof.

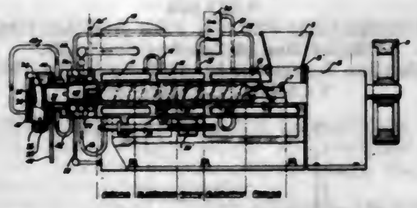
2,653,916

METHOD OF RECLAIMING SCRAP VULCANIZED MATERIAL

Joseph C. Elgin, Princeton, N. J., and Edward F. Sverdrup, Buffalo, N. Y., assignors to U. S. Rubber Reclaiming Co., Inc., Buffalo, N. Y.

Application June 25, 1953, Serial No. 364,101

7 Claims. (Cl. 260—2.3)



1. The process of reclaiming scrap vulcanized material which comprises mechanically working the scrap under compacting pressure to generate heat sufficient to raise the temperature to over about 325° F. as it moves forward progressively at a rate of not less than about 50 pounds per hour in the presence of an agent which will provide under the conditions of the process an unsaturated carboxylic acid having only hydrocarbon substituents except for radicals of the class consisting of hydroxyl and chlorine, but not having both hydroxyl and chlorine substituents and having a double bond linking two carbon atoms

one of which is linked by a single bond to a carbon atom which has oxygen attached thereto but which is not directly attached to another carbon atom.

2,653,917

METHOD OF MAKING AN EXPANDED MATERIAL AND THE PRODUCT RESULTING THEREFROM

Henry George Hammon, Stevensville, Mich., assignor, by mesne assignments, to Christopher L. Wilson, Columbus, Ohio

No Drawing. Application June 15, 1950, Serial No. 168,280

26 Claims. (Cl. 260—2.5)

1. The method of making a sponge material having interconnected pores which comprises forming a substantially stable dispersion of bubbles in an aqueous solution comprising an acid in which the acid functional group is inorganic and having a dissociation constant of at least 10^{-2}, a member of the class consisting of a water-soluble hydrolyzed copolymer of allylidene diethoxide and vinyl acetate, a mixture of said copolymer and polyvinyl alcohol, a water-soluble hydrolyzed copolymer of allylidene diacetate and vinyl acetate, a mixture of said copolymer and polyvinyl alcohol, each of said copolymers containing up to 15 mol percent of the allylidene compound, and a mixture of a dialdehyde and polyvinyl alcohol containing up to 15 mol percent of said dialdehyde, said polyvinyl alcohol containing less than 10% residual hydrolyzable material in the molecule, and formaldehyde, and reacting said formaldehyde and said member of said class until approximately 35 to 80% of the hydroxyl groups of the reactants have been reacted.

2,653,918

ADDITION OF ALKALI-METAL SILICOFLUORIDES TO LATEX

Charles F. Eckert, Westwood, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application February 24, 1951, Serial No. 212,688

8 Claims. (Cl. 260—2.5)

6. A foam of an alkali latex composition admixed with an aqueous suspension containing 0.5 to 15 parts of sodium silicofluoride per 100 parts of latex solids, 10 to 100 parts of diethyleneglycol monooleate per 100 parts of sodium silicofluoride and 5 to 65 parts of oleic acid per 100 parts of diethylene glycol monooleate.

2,653,919

AQUEOUS POLYETHYLENE DISPERSIONS PRODUCED BY SUBJECTING MOLTEN POLYMER IN WATER TO A HIGH RATE OF SHEAR

Edward Hunter, Northwich, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application September 6, 1950, Serial No. 183,475. In Great Britain September 28, 1949

10 Claims. (Cl. 260—23)

1. A process for the manufacture of polyethylene dispersions which comprise subjecting a mixture of molten, normally solid polyethylene and one to five parts by weight of water per part of polyethylene at a temperature above 115° C. and at a sufficient pressure to keep the water in the liquid state, to a high rate of shear such that the dispersed particles of said polyethylene have an average particle size of from about 5 to 20 microns, and then releasing the pressure.

2,653,920

MOLDED ARTICLES COMPRISING A FURFURYL ALCOHOL RESIN AND A MIXTURE OF FILLERS OF DIFFERENT MESH SIZES

Charles G. Harford, Quincy, Mass., assignor to Arthur D. Little, Inc., Cambridge, Mass., a corporation of Massachusetts

No Drawing. Application August 2, 1949, Serial No. 108,231

15 Claims. (Cl. 260—38.5)

1. A dense, chemically resistant structure consisting substantially entirely of a mineral filler, a cured resin and a catalyst, said mineral filler being composed of a chemically resistant mineral aggregate passing through a 16 mesh screen and being retained on a 100 mesh screen and from 25 to 80% by weight of said aggregate of chemically resistant mineral flour at least 95% of which passes through a 200 mesh screen, said resin being a furfuryl alcohol resin and being present in an amount of 6 to 12% based on the total weight of the composition.

2,653,921

CATALYSTS FOR THE HARDENING OF ARTIFICIAL RESINS AND THEIR USE IN THE TEXTILE INDUSTRY

Georg Sulzer, Basel, Switzerland, assignor to Ciba Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application July 10, 1950, Serial No. 173,906. In Switzerland July 25, 1949

16 Claims. (Cl. 260—67.6)

1. In a process of hardening acid curable thermosetting aminoplasts at elevated temperatures with the aid of catalysts, the step of effecting the hardening in the presence of a catalyst produced in concentrated aqueous solution by the action upon boric acid of a water-soluble salt of a strong, at most dibasic, acid, having a dissociation constant of at least 2.1×10^{-4}, with a metal selected from the class consisting of the metals of the first and second groups of the periodic system, the atomic weight does not exceed 138 and which metal yields salts the aqueous solutions of which are colorless.

2,653,923

HYDROPEROXY-SUBSTITUTED ROSIN MATERIALS AND A METHOD FOR THEIR PRODUCTION

Forrest L. McKennon, New Orleans, La., and Ray V. Lawrence, Lake City, Fla., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application January 19, 1951, Serial No. 206,907

9 Claims. (Cl. 260—23.7)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A process comprising oxidizing a normally liquid ester of an hydrogenated rosin acid in which at least 50 percent of the ethylenic bonds have been removed by hydrogenation, the oxidation being initiated at a temperature of from 50° to 120° C., the temperature being lowered in decrements of 5° to 20° C., as the rate of increase in active oxygen content begins to decrease, until

the further lowering of the temperature fails to appreciably increase said rate, the oxidation being by introducing gaseous oxygen, no catalyst being added.

2,653,923

METHOD FOR PREPARATION OF A POLYVINYL METHYL ETHER

Joseph F. Shekleton, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application November 13, 1948, Serial No. 59,971
5 Claims. (Cl. 260—91.1)

1. A process for producing a somewhat rubbery form-stable, non-sticky, curd-like polyvinyl methyl ether which comprises polymerizing vinyl methyl ether at a temperature from about —50° C. to about —70° C. in the presence of about 1%, based on the weight of the vinyl methyl ether, of a catalyst therefor and up to 9 parts by volume of diluent per part of said catalyst.

2,653,924

VULCANIZATION ACCELERATORS

John F. Olin, Grosse Ile, Mich., assignor to Sharples Chemicals Inc., a corporation of Delaware

No Drawing. Application December 23, 1950, Serial No. 202,571
10 Claims. (Cl. 260—94.8)

1. A rubber accelerator product, comprising at least one normally solid rubber accelerator salt of N-disubstituted dithiocarbamic acid having applied thereto, in amount from 0.5% to 20% by weight based on accelerator, one of the group consisting of polybutene and hydrogenated polybutene, the average molecular weight of the applied material being between 500 and 5000.

2,653,925

VULCANIZATION ACCELERATORS

John F. Olin, Grosse Ile, Mich., assignor to Sharples Chemicals Inc., a corporation of Delaware

No Drawing. Application December 23, 1950, Serial No. 202,572
10 Claims. (Cl. 260—94.8)

1. A rubber accelerator product, comprising at least one of the group consisting of normally solid rubber accelerator derivatives of thiazole and hydrogenated thiazole having applied thereto in amount from 0.5% to 20% by weight based on accelerator of one of the group consisting of polybutene and hydrogenated polybutene, the average molecular weight of the applied material being between 500 and 5000.

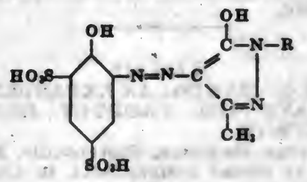
2,653,926

METALLIFEROUS MONOAZO DYESTUFFS

Christian Zickendraht, Binningen, and Robert Wittwer, Basel, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application October 15, 1951, Serial No. 251,456. In Switzerland November 1, 1950
7 Claims. (Cl. 260—147)

1. A complex metal compound which contains one of the metals selected from the group consisting of cobalt and copper in complex combination with a monoazo dyestuff containing two sulfonic acid groups and corresponding to the formula



wherein R stands for a benzene radical.

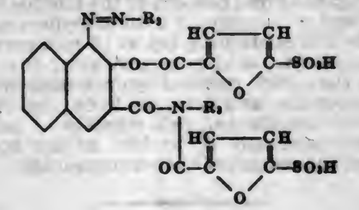
2,653,927

HETEROCYCLIC AZO-DYESTUFF

Charles Graenacher, Riehen, and Heinrich Bruengger and Adolf Emil Siegrist, Basel, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application July 13, 1950, Serial No. 173,672. In Switzerland July 22, 1949
7 Claims. (Cl. 260—152)

2. An azo dyestuff derivative of the formula



in which R_2 represents a benzene radical and R_3 represents a benzene radical, and which azo dyestuff derivative contains a single —CO—N-group and is free from substituents imparting solubility apart from the indicated sulfonic acid groups.

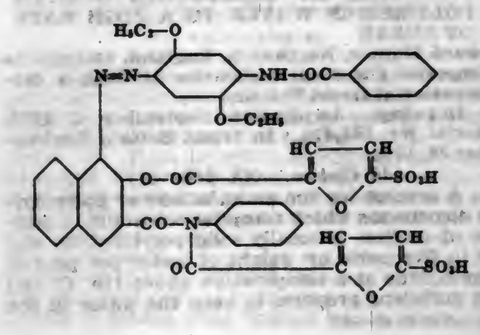
2,653,928

HETEROCYCLIC AZO-DYESTUFF DERIVATIVES

Charles Graenacher, Riehen, and Heinrich Bruengger and Adolf Emil Siegrist, Basel, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application July 13, 1950, Serial No. 173,673. In Switzerland July 22, 1949
9 Claims. (Cl. 260—152)

6. The azo dyestuff derivative of the formula



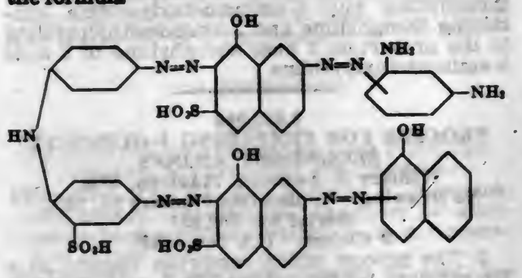
2,653,929

TETRAKISAZO-DYESTUFFS

Richard Fleischhauer, Frankfurt am Main Fechenheim, Germany, assignor to Cassella Farbwerke Mainkur Aktiengesellschaft, Frankfurt am Main Fechenheim, Germany, a German company

No Drawing. Application June 25, 1951, Serial No. 233,481. In Germany June 28, 1950
6 Claims. (Cl. 260—166)

3. The tetrakisazo-dyestuff corresponding to the formula



2,653,930

PROCESS FOR FREEZING MUSHROOMS

Harry Robert Dadley, Toughkenamon, Pa., assignor of one-half to Joseph V. Fidance, Kennett Square, Pa.

No Drawing. Application April 26, 1951, Serial No. 223,173
6 Claims. (Cl. 99—193)

1. The process of preserving mushrooms comprising enveloping each mushroom in an adhesive substantially air and moisture impervious coating and quick freezing the coated mushrooms.

2,653,931

PROCESS FOR LABELING POLYSACCHARIDES WITH C^{14} AND PRODUCTS RESULTING THEREFROM

Horace S. Isbell, Washington, D. C., assignor to the United States of America as represented by the Secretary of Commerce

No Drawing. Application April 25, 1951, Serial No. 222,924
4 Claims. (Cl. 260—209)
(Granted under Title 35, U. S. Code (1952), sec. 266)

2. A process for the preparation of C^{14}-labeled polysaccharides which consists in reacting a polysaccharide with C^{14}-labeled cyanide, saponifying the resulting nitrile and isolating the radioactive polysaccharide derivative.

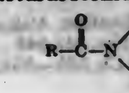
2,653,932

AMIDE-GLYCAMINE CONDENSATION PRODUCTS

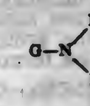
Anthony M. Schwartz, Washington, D. C., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application October 20, 1949, Serial No. 122,570
10 Claims. (Cl. 260—211)

1. The addition product of one molecular equivalent of an amide of a higher fatty acid having the structural formula:



wherein R represents the hydrophobic residue of a carboxylic acid having eight to eighteen carbon atoms, R^1 and R^2 represent radicals selected from the group consisting of hydrogen, unsubstituted alkyl radicals containing 1–6 carbon atoms, and alkyl radicals containing 1–6 carbon atoms and at least one hydroxyl groups as substituents, at least one hydroxyl group being present in the combination of R^1 and R^2, with at least one molecular equivalent of a glycamine having the structural formula:



wherein R^3 represents a member selected from the group consisting of hydrogen, an alkyl radical containing 1–6 carbon atoms, and an alkyl radical containing 1–6 carbon atoms and at least one hydroxyl groups, but in no case is said hydroxyl group on the alpha carbon; and G represents the radical of a glycitol containing at least 5 carbon atoms, the addition product being formed at a temperature ranging from 120° C. to 150° C.

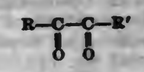
2,653,933

AMINOHETEROCYCLES

John G. Erickson, Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 30, 1950, Serial No. 182,415
3 Claims. (Cl. 260—249.5)

1. The method of preparing a 3-amino-as-triazine that comprises subjecting aminoguanidine bicarbonate to the action of a diketone of the formula



in which R and R' are members of the group consisting of hydrogen and alkyl groups, the alkyl group containing not more than eight carbon atoms, in an inert solvent, until the corresponding 3-amino-as-triazine is formed, and recovering the thus-formed triazine.

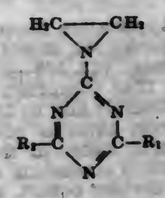
2,653,934

ETHYLENIMINO-S-TRIAZINES

Donald W. Kaiser, Old Greenwich, and Frederic C. Schaefer, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application June 2, 1950, Serial No. 165,961
6 Claims. (Cl. 260—249.8)

1. A compound of the formula



in which R_1 is a member of the group consisting of hydrogen, halogen, alkoxy, aromatic hydrocarbon, and amino, and R_2 is a member of the group consisting of R_1 and ethylenimino.

2,653,935
METHOD OF PREPARING METHYL ISOMELAMINE
Donald W. Kaiser, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application June 15, 1951, Serial No. 231,894
4 Claims. (Cl. 260—249.6)

1. In the method of preparing methyl isomelamine methyl hydrogen sulfate by heating together melamine and dimethyl sulfate, the improvement that comprises conducting the reaction in an ether of the group consisting of a dialkoxy ethylene of the formula

alkyl—O—CH_2CH_2—O—alkyl

and dioxane.

2,653,936
PREPARATION OF AMMELINE
Alexander F. MacLean, Corpus Christi, Tex., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application July 29, 1950, Serial No. 176,774
5 Claims. (Cl. 260—249.8)

1. In the method of preparing ammeline by heating dicyandiamide with urea at substantially atmospheric pressure, the improvement comprising conducting the reaction in the presence of a strong alkali.

2,653,937
AMMELINE SALTS
Donald W. Kaiser, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application September 16, 1950, Serial No. 185,339
3 Claims. (Cl. 260—249.8)

1. The method of preparing an ammeline hydrohalide which consists in subjecting a dicyanoguanidine to the action of a mixture comprising essentially a halogen acid of the group consisting of HCl and HBr in aqueous solution, at a temperature within the range of 50°–100° C., the acid being in stoichiometric excess over the dicyanoguanidine, the excess being calculated on a free dicyanoguanidine basis, and separating the thus-formed hydrohalide.

2,653,938
PREPARATION OF FORMOGUANAMINES
Wesley O. Fugate and Leslie C. Lane, Jr., Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application September 17, 1948, Serial No. 49,862
6 Claims. (Cl. 260—249.9)

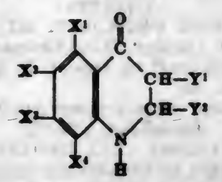
1. The process that comprises heating a mixture of a dicyandiamide and hydrogen in an inert preponderantly non-aqueous solvent containing not more than 25% water in the presence of a catalyst of the group consisting of finely divided nickel and finely divided cobalt, at a temperature of at least about 75° C. and at a pressure of at least about 300 lb./sq. in., whereby a formoguanamine is formed, and recovering the said formoguanamine.

2,653,939
WATER-SOLUBLE COMPOUND OF THEOPHYLLINE AND 3-AMINOMETHYL-PYRIDINE AND PROCESS FOR THE MANUFACTURE THEREOF
Reinhard Schläpfer, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application May 1, 1952, Serial No. 285,546. In Switzerland May 28, 1951
2 Claims. (Cl. 260—253)

1. The crystalline colorless reaction product of theophylline and 3-aminomethylpyridine containing theophylline and 3-aminomethylpyridine in the proportion 3 mols theophylline to 2 mols 3-aminomethylpyridine.

2,653,940
PROCESS FOR PREPARING 4-QUINOLYL SECONDARY AMINES
William S. Johnson, Madison, Wis.
No Drawing. Application January 27, 1951, Serial No. 208,237
9 Claims. (Cl. 260—288)

2. The process which comprises heating at a temperature between about 70° C. and 200° C. a 4 - keto - 1,2,3,4 - tetrahydroquinoline having the formula



wherein Y^1 and Y^2 are selected from the group consisting of hydrogen and lower-alkyl groups, and X^1, X^2, X^3 and X^4 are selected from the group consisting of hydrogen, halogen, trifluoromethyl, lower-alkoxy and lower-alkyl groups, with at least one equivalent of a diamine having the formula $H_2N—A—N=B$ wherein A is a member of the group consisting of divalent hydrocarbon radicals having 2–10 carbon atoms and divalent hydrocarbon radicals having 2–10 carbon atoms substituted by a hydroxyl group; and N=B is a member of the group consisting of di-lower - alkylamino, di - (hydroxy - lower - alkyl-amino), (hydroxy - lower - alkyl) - lower - alkyl-amino, piperidino, morpholino and pyrrolidino radicals.

2,653,941
3,7-DIHALO-4-HYDROXYQUINOLINES
Martin E. Hultquist, Bound Brook, and Theodore F. Scholz, Somerville, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Original application June 11, 1946, Serial No. 676,088. Divided and this application May 18, 1951, Serial No. 227,122
The portion of the term of the patent subsequent to December 16, 1968, has been disclaimed
2 Claims. (Cl. 260—239)

1. A 3,7-dihalo-4-hydroxyquinoline.

2,653,942
THIOISONICOTINAMIDE
John Lee, Essex Fells, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application August 15, 1951, Serial No. 242,040
1 Claim. (Cl. 260—294.8)

Thioisonicotinamide.

2,653,943
PYRAN DERIVATIVES AND PROCESS FOR THE MANUFACTURE THEREOF
Fritz Kögl, Utrecht, and Cornelis A. Salemink, Amersfoort, Netherlands, assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application February 28, 1951, Serial No. 213,302. In Switzerland March 6, 1950
1 Claim. (Cl. 260—343.5)

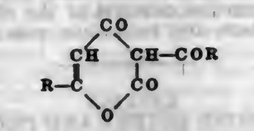
A process of making 3-valeryl-6-ethyl-2,3-dihydropyran-2,4-dione which comprises reacting 6-ethyl-2,3-dihydropyran-2,4-dione with valeric acid anhydride at a temperature of 160–180° C.

2,653,944
PYRONONE DERIVATIVES AND PROCESS FOR THE MANUFACTURE THEREOF
Fritz Kögl, Utrecht, and Cornelis A. Salemink, Amersfoort, Netherlands, assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application January 30, 1951, Serial No. 208,656. In Switzerland February 9, 1950
3 Claims. (Cl. 260—343.5)

1. A compound of the group consisting of 3-n-valeryl-6-butyl-2,3-dihydropyran-2,4 - dione and 3-capronyl-6-pentyl-2,3-dihydropyran-2,4-dione.

2,653,945
PYRAN DERIVATIVES
Fritz Kögl, Utrecht, and Cornelis August Salemink, Amersfoort, Netherlands, assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application May 1, 1952, Serial No. 285,548. In Switzerland May 29, 1951
6 Claims. (Cl. 260—343.5)

1. Compounds of the general formula



wherein R is selected from the group consisting of singly and multiply branched, saturated and unsaturated aliphatic hydrocarbon radicals with more than 5 carbon atoms.

2,653,946
PROCESS FOR PREPARING THE N-CARBOXYGLYCINE ANHYDRIDE
George A. Richardson, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application June 23, 1950, Serial No. 170,052
4 Claims. (Cl. 260—307)

1. A method of preparing N-carboxyglycine anhydride, which comprises dispersing glycine hydrochloride in methyl ethyl ketone, treating the dispersion with phosgene until a homogeneous solution is formed, and separating the resultant N-carboxyglycine anhydride by the addition of an organic non-solvent miscible with methyl ethyl ketone.

2,653,947
PROCESS FOR PREPARING THE N-CARBOXYPHENYLALANINE ANHYDRIDES
John E. Ott, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application June 23, 1950, Serial No. 170,053
12 Claims. (Cl. 260—307)

1. The method of preparing the N-carboxy anhydride of β-phenyl-α-alanine, which comprises dispersing phenylalanine in a compound having the structural formula:



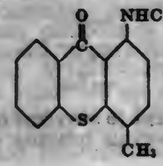
wherein the X radicals are selected from the group consisting of hydrogen, halogen and alkyl radicals having up to four carbon atoms, not more than one of said radicals being hydrogen, and said compounds being liquids at temperatures between 100 and 160° C., reacting the dispersion with hydrochloric acid, treating the dispersion so formed with phosgene between 100 and 160° C., cooling the resulting solution, and separating the precipitated N-carboxyphenylalanine anhydride.

2,653,948
VINYL CHLORIDE POLYMERS PLASTICIZED WITH ADDITION PRODUCTS OF ESTERS
Joachim Dazzi, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Original application September 25, 1950, Serial No. 186,679, now Patent No. 2,630,441, dated March 3, 1953. Divided and this application April 17, 1952, Serial No. 282,910
8 Claims. (Cl. 260—31.8)

1. A resinous composition comprising a vinyl chloride polymer plasticized with an adduct of one mole of an ester selected from the class consisting of dialkyl and bis(alkoxyalkyl) esters of a dimeric, unsaturated vegetable oil fatty acid in which each alkyl and each alkoxyalkyl radical has from 1 to 8 carbon atoms and from 1 to 4 moles of a fumarate selected from the class consisting of dialkyl and bis(alkoxyalkyl) fumarates in which each alkyl radical and each alkoxyalkyl radical has from 1 to 8 carbon atoms.

2,653,949
1-(DI-n-BUTYLAMINOALKYLAMINO)-4-METHYLTHIAXANTHONES AND SYNTHESIS THEREOF
Sydney Archer, Albany, N. Y., assignor to Sterling Drug Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application November 22, 1950, Serial No. 197,171
2 Claims. (Cl. 260—328)

1. 1 - (2 - di - n - butylaminoethylamino) - 4 - methylthiaxanthone having the formula



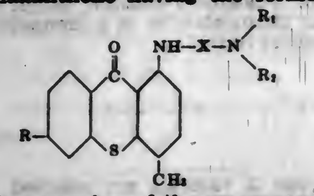
2,653,950

1-(HYDROXYALKYLAMINOALKYLAMINO)-4-METHYLTHIAXANTHONES AND PREPARATION THEREOF

Sydney Archer, Albany, N. Y., assignor to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application November 22, 1950, Serial No. 197,172
21 Claims. (Cl. 260—328)

1. A thiaxanthone having the formula



where R is a member of the group consisting of hydrogen, halo groups, lower alkyl radicals and lower alkoxy radicals, X is a lower alkylene radical having its two connecting linkages on adjacent carbon atoms, R_1 is a member of the group consisting of hydrogen and lower alkyl radicals and R_2 is a lower 2-hydroxyalkyl radical.

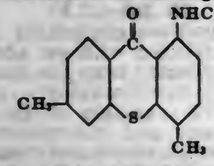
2,653,951

1-(2-DIETHYLAMINOETHYLAMINO)-4,7-DIMETHYLTHIAXANTHONE, ACID ADDITION SALTS THEREOF AND PREPARATION OF THESE COMPOUNDS

Sydney Archer, Albany, N. Y., assignor to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application June 19, 1951, Serial No. 232,477
4 Claims. (Cl. 260—328)

1. A compound selected from the group consisting of 1-(2-diethylaminoethylamino)-4,7-dimethylthiaxanthone having the formula



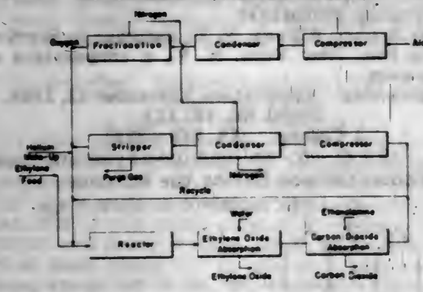
and acid addition salts thereof.

2,653,952

PROCESS FOR THE MANUFACTURE OF ETHYLENE OXIDE

Robert B. Egbert, Roslyn Heights, N. Y., assignor to Chempatents, Inc., New York, N. Y., a corporation of Delaware

Application May 25, 1950, Serial No. 164,130
10 Claims. (Cl. 260—348.5)



1. In the oxidation of ethylene to ethylene oxide by passing a stream of a gaseous mixture containing ethylene and oxygen over a catalyst having an active silver surface at a temperature ranging from about 220° C. to 350° C. to oxidize the ethylene to ethylene oxide, the improvement comprising adding helium to the ethylene-containing gaseous mixture in quantities to give a concentration of ethylene and oxygen suitable for the oxidation reaction.

2,653,953

3,4-BENZOPYRENE-1,5-QUINONE

Herman E. Schroeder, Kennett Square, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 29, 1950, Serial No. 152,751
2 Claims. (Cl. 260—362)

1. A method for preparing 3,4-benzopyrene-1,5-quinones which comprises reacting a mixture of one mol equivalent of phthalidene acetic acid with at least one mol equivalent of the compound of the group consisting of naphthalene, anthracene and fluoranthene in sufficient anhydrous hydrogen fluoride so that during the condensation the concentration of the hydrogen fluoride will not be diluted by the water liberated in the reaction to less than 36% hydrogen fluoride.

2,653,954

MANUFACTURE OF 1-AMINO-4-HYDROXYANTHRAQUINONE

Viktor Weinmayr, Pitman, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 3, 1950, Serial No. 159,883
2 Claims. (Cl. 260—380)

1. A process for preparing 1-amino-4-hydroxyanthraquinone from 1-nitroanthraquinone which comprises hydrogenating 1-nitroanthraquinone in sulfuric acid of from 85% to 100% strength at temperatures of from 60° to 125° C. under a hydrogen pressure of from 20 to 200 pounds per square inch gauge pressure and in the presence of a hydrogenation catalyst of the class consisting of platinum and palladium catalysts.

2,653,955

CORTISONE ESTERS AND PROCESS

Edward F. Rogers, Middletown, and John P. Conbere, Plainfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application August 9, 1951, Serial No. 241,154
6 Claims. (Cl. 260—397.4)

1. The compound selected from the class consisting of cortisone tricarballylate, its alkali metal and alkaline earth metal salts.

2,653,956

DRYING OIL COMPOSITIONS

Edwin G. Marhofer, Fredonia, Kans., and John C. Hillyer, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application August 16, 1948, Serial No. 44,596
18 Claims. (Cl. 260—407)

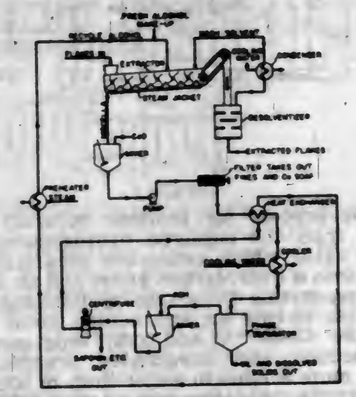
1. A process for producing a drying oil composition, which comprises admixing a polymer consisting essentially of an unsaturated, predominantly open-chain liquid hydrocarbon polymer of an open chain conjugated diolefin, said polymer having a viscosity of from 20 to 150 poises at 77° F., with an unsaturated glyceride oil in the amount of 2 to 20 per cent by weight of said glyceride oil, and heating a resulting admixture at 550 to 600° F. for 2 to 6 hours.

2,653,957

CONTINUOUS EXTRACTION OF OIL FROM VEGETABLE MATERIALS

Richard H. Westergaard, Peoria, Ill., assignor to the United States of America as represented by the Secretary of Agriculture

Application June 28, 1951, Serial No. 240,825
3 Claims. (Cl. 260—412.4)



1. A process for extracting alcohol-soluble oils from a material of the group consisting of vegetable seeds and nut meats, comprising subjecting the said material to extraction with hot alcohol, withdrawing the alcoholic solution, cooling the latter to a temperature that is not above 20° C. to cause the separation of oil and solids, and separating the alcoholic solution from the oil and solids, treating the separated alcoholic solution with an alkaline agent thus to cause purification of the solvent by separation of insoluble material, removing the separated insoluble material, and re-using the thus purified alcoholic solution in the extraction process without subjecting the latter solution to distillation refinement to extract a fresh batch of the material.

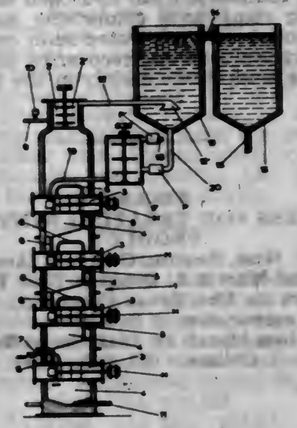
2,653,958

METHOD FOR THE CONTINUOUS PURIFICATION OF SOAP

Felix Lucien Lachampt, Franconville, France, assignor to Union Francaise Commerciale et Industrielle, Casablanca, Morocco, a society of Morocco

Application July 8, 1949, Serial No. 103,637
In Morocco July 17, 1948
4 Claims. (Cl. 260—413)

1. In a method for continuously purifying a totally saponified glycerinated soap obtained in the most concentrated liquid phase known as the neat soap, including washing said soap in counter-current with a first brine constituted by an alkaline metal chloride having a concentration slightly above the critical concentration below which said purified soap dissolves, the steps comprising, mixing said soap with water after washing with said first brine, circulating said mixture of soap with water in a settling zone where separation into neat soap and nigre takes place, drawing off continuously from said settling zone, at the bottom thereof a quantity of liquid greater than the quantity of said nigre, and at the top thereof the surplus of the purified neat soap, circulating said drawn off liquid containing nigre through a supplementary mixing zone with a second brine having a concentration



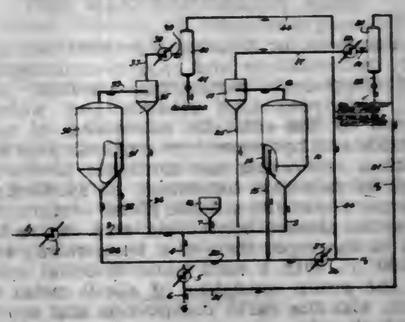
greater than that of said first brine and adjusted to produce after mixing a change of structure resulting in a mixture of deglycerinated neat soap and of a brine constituting said first brine and circulating said mixture of said first brine and deglycerinated neat soap for the washing of said glycerinated neat soap.

2,653,959

PROCESS FOR RECOVERING OXYGENATED ORGANIC COMPOUNDS

Frank J. Moore and Howard V. Hess, Beacon, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

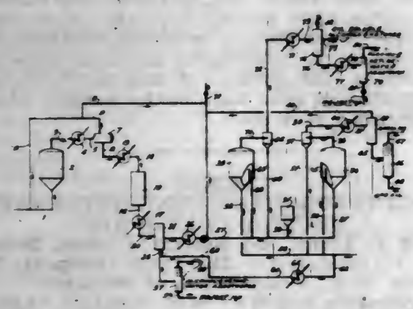
Application March 22, 1949, Serial No. 82,206
9 Claims. (Cl. 260—450)



1. A process for separating normally liquid oxygen-containing organic compounds mainly in the form of alcohols from the oil phase of synthesis product which comprises vaporizing said oil phase containing alcohols, aldehydes, esters, ketones and acids, contacting said vaporized oil phase in an adsorption zone at a temperature between 200 and 700° F. with a particulate fluent solid composite comprising an adsorbent and a hydrogenation agent whereby oxygen-containing organic compounds are adsorbed on said solid composite, separating said solid composite containing oxygen-containing organic compounds from vaporized oil phase, introducing said solid composite into a hydrogenation-desorption zone, maintaining said solid composite in a fluent state in said hydrogenation-desorption zone, passing

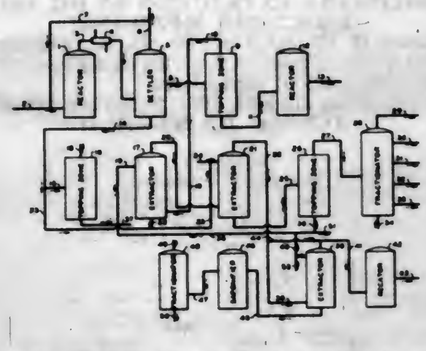
hydrogen through said hydrogenation-desorption zone at a temperature between 300 and 800° F., hydrogenating said aldehydes, acids, esters and ketones to alcohols and desorbing oxygen-containing compounds from said solid composite in said hydrogenation-desorption zone, separating said solid composite from hydrogen and oxygen-containing compounds comprising mainly alcohols, recycling said separated solid composite to said adsorption zone and recovering said oxygen-containing compounds mainly in the form of alcohols.

2,653,960
PROCESS FOR TREATING SYNTHESIS PRODUCT
Howard V. Hess, Beacon, George B. Arnold, Glenham, and Marvin L. Drabkin, New York, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
Application March 26, 1949, Serial No. 83,732
7 Claims. (Cl. 260—450)



1. A process for treating a product containing water, hydrocarbons and oxygen-containing organic compounds comprising alcohols, esters, acids, aldehydes and ketones and which is obtained by the catalytic conversion of carbon monoxide and hydrogen into synthetic fuel which comprises separating the synthesis product obtained by catalytic conversion of synthesis gas into a gas phase and a liquid phase comprising oil and water phases, contacting said entire liquid phase in the vapor state at a temperature of 500 to 1,000° F. with a solid basic material selected from the group consisting of alkali metal compounds, alkaline earth compounds and mixtures thereof whereby esters are hydrolyzed to alcohols and acids and acids are decarboxylated to hydrocarbons and ketones, cooling said base-treated liquid phase, separating said base-treated liquid phase into an oil fraction and a water fraction, vaporizing said oil fraction containing oxygenates mainly in the form of alcohols and ketones, contacting said oil fraction with a particulate adsorbent at a temperature of 400 to 700° F. whereby said oxygen-containing organic compounds, mainly alcohols and ketones, are adsorbed on said adsorbent, separating said adsorbent containing oxygen-containing organic compounds adsorbed thereon from said vaporized oil fraction and recovering oxygen-containing organic compounds comprising mainly alcohols and ketones from said separated adsorbent.

2,653,961
RECOVERY OF OXYGEN COMPOUNDS FROM FISCHER-TROPSCH PRODUCT
Harold W. Fleming, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application June 27, 1949, Serial No. 101,656
17 Claims. (Cl. 260—450)



1. The process for treating normally liquid effluent from the catalytic hydrogenation of a carbon oxide which comprises separating said effluent into a hydrocarbon phase and an aqueous phase, separating from said hydrocarbon phase a fraction having an end boiling point in the range 150° C.–200° C. and comprising essentially hydrocarbons and oxygenated organic compounds more soluble in water than in hydrocarbons, directly contacting said fraction with water, recovering from said contacting step a hydrocarbon phase substantially free of normally liquid oxygenated organic compounds more soluble in water than in hydrocarbons, directly contacting thus-recovered hydrocarbon phase with said aqueous phase separated from said reaction effluent, and recovering from said last-named contacting step a hydrocarbon phase enriched with normally liquid oxygenated organic compounds more soluble in hydrocarbons than in water from said first-named aqueous phase and an aqueous phase substantially free of normally liquid oxygenated organic compounds more soluble in hydrocarbons than in water.

2,653,962
OXIDATION CONTROL
Robert L. Mitchell and Oren V. Luke, Corpus Christi, Tex., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware
No Drawing. Application July 28, 1951, Serial No. 239,178
16 Claims. (Cl. 260—452)

1. In the production of oxygenated organic compounds from aliphatic hydrocarbons by a process which includes passing an oxygen-containing gas through a liquid reaction mixture containing an aliphatic hydrocarbon, the steps which comprise allowing a part of said reaction mixture including unreacted hydrocarbon, water of reaction and other oxidation products to distill over, condensing the overhead distillate, allowing the condensate to separate into a hydrocarbon phase and an aqueous phase and, while said separated phases are contiguous, subjecting at least one of said phases to extraction to remove oxygenated organic compounds therefrom.

2,653,963
CATALYTIC ADDITION OF CYANOGEN HALIDES TO OLEFINS
Frank M. Cowen, Norwalk, and James K. Dixon, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application April 12, 1951, Serial No. 220,726
14 Claims. (Cl. 260—464)

1. The method of preparing a halo-nitrile comprising subjecting an olefin to the action of a member of the group consisting of cyanogen chloride and cyanogen bromide in the presence of a catalyst selected from the group consisting of aluminum chloride-nitrohydrocarbon, aluminum bromide-nitrohydrocarbon, and boron trifluoride-nitrohydrocarbon combinations, at a temperature not substantially exceeding the boiling point of the nitrohydrocarbon.

2,653,964
PREPARATION OF NITRILES AND CATALYSTS THEREFOR
Hugh J. Hagemeyer, Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 12, 1952, Serial No. 281,984
5 Claims. (Cl. 260—465.1)

3. A method for the preparation of a saturated nitrile comprising conducting a vapor-phase catalytic reaction of ammonia with an aldehyde in accordance with the equation

$$R(CHO)_n + NH_3 \rightarrow R(CN)_n + H_2O + H_2$$

wherein R is a hydrocarbon radical of 1 to 8, inclusive, carbon atoms, and n is an integer having a value in range of 1 to 2, inclusive, at a temperature in the range of 350°–550° C. in the presence of a catalyst comprising a chromium sesquioxide (Cr_2O_3) carried on an essentially neutral supporting oxide selected from the group consisting of zirconia (ZrO_2) and titania (TiO_2).

2,653,965
PRODUCTION OF ACRYLONITRILE
Robert M. Thomas, Niagara Falls, N. Y., assignor to Mathieson Chemical Corporation, a corporation of Virginia
No Drawing. Application July 21, 1951, Serial No. 238,003
2 Claims. (Cl. 260—465.3)

1. In the manufacture of acrylonitrile by reaction of acetylene and hydrogen cyanide at about 80° to 90° C. in the presence of a liquid phase catalyst comprising a mixture of cuprous chloride and alkali metal chlorides and recovery of acrylonitrile from the crude product by fractionation, the improvement which comprises reacting the acetylene and hydrogen cyanide in contact with an aqueous cuprous chloride catalyst solution which contains a concentration of total salts on the high side of the eutectic composition of at least 70 to 72% total salts and which contains at least about 1.03 moles to about 1.10 moles of cuprous chloride per mole of alkali metal chlorides.

2,653,966
PURIFICATION OF ACRYLONITRILE
Keith M. Taylor and Harry M. Walker, Texas City, Tex., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application July 20, 1951, Serial No. 237,838
7 Claims. (Cl. 260—465.9)

1. The method of purifying monomeric acrylonitrile to remove hydrogen cyanide therefrom which comprises contacting the said acrylonitrile with from 0.0001% to 0.3% by weight of a basic compound selected from the group consisting of alkali and alkaline earth hydroxides, oxides, carbonates and cyanides, and thereafter separating the purified acrylonitrile.

2,653,967
TANNING MATERIALS AND PROCESS FOR PREPARING THE SAME
Kenneth Potter Monroe, Boston, Mass., assignor to Standard Dyewood Company, Medford, Mass., a corporation of Massachusetts
No Drawing. Application March 20, 1951, Serial No. 216,655
7 Claims. (Cl. 260—473.5)

6. Process of lightening the color of natural occurring tanning materials from the group consisting of quebracho, wattle, clutch, and mangrove which comprises treating the same with a small, catalytic amount of an alkali vanadate, and a reducing agent from the group consisting of sulfites, hydrosulfites and formates.

7. A tanning material from the group consisting of quebracho, wattle, clutch and mangrove, the color of which has been lightened by treatment with small, catalytic amounts of an alkali vanadate, and a reducing agent from the group consisting of sulfites, hydrosulfites and formates.

2,653,968
CHOLINE PANTOTHENATE AND METHOD FOR MANUFACTURING SAME
Myer Freed, Chicago, Ill., assignor to Dawe's Products Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application March 29, 1952, Serial No. 279,459
4 Claims. (Cl. 260—482)

2. In the process for the manufacture of the salt of choline beta-alanate and alpha-hydroxy-beta, beta-dimethyl-gamma-butyrolactone, the step of reacting the lactone with substantially equimolecular equivalents of choline beta-alanate in a neutral solvent selected from the group consisting of water and alcohol.

2,653,969
PROCESS OF PREPARING TERTIARY ACRYLIC ACID ESTERS FROM ACETYLENE
Otto Albrecht, Muenchenstein, and Arthur Maeder, Basel, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm
No Drawing. Application June 19, 1950, Serial No. 169,072. In Switzerland February 21, 1947
7 Claims. (Cl. 260—486)

1. A process for the manufacture of an acrylic acid ester which comprises treating acetylene with nickel carbonyl with the addition of an acid and of a hydroxy compound which contains at least one hydroxy group bound to an aliphatic carbon atom, the three remaining valences of which are bound to carbon.

2,653,970

OLEFIN SULFITATION PROCESS

William A. Fessler, Prince George County, Va., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application January 12, 1950, Serial No. 138,267
6 Claims. (Cl. 260—513)

1. A process for addition of sodium bisulfite to an open chain olefin in about C_{10}—C_{22} range containing at least a portion of terminal double bond olefin, which comprises forming a reaction mixture containing olefin as aforesaid, water, a water-soluble volatile alcohol containing at least 3 carbon atoms, sodium bisulfite, sodium sulfite, and water-soluble surface active material formed by addition of sodium bisulfite to said olefin, in which reaction mixture the pH in the aqueous phase is between about 6.5 and about 7.5 as measured with a glass electrode at 30° C.; sodium bisulfite is introduced in $NaHSO_3$ mol ratios between about 1:1 and about 3:1 with the olefin introduced and sodium sulfite is introduced in Na_2SO_3 mol ratios between about 1.5:1 and about 3:1 with sodium bisulfite introduced; finely dispersing a gas containing molecular oxygen through said reaction mixture; maintaining temperatures between about room temperature and the reflux temperature of the reaction mixture; and maintaining pH in the aqueous phase above 6 and below about 9 as measured with a glass electrode at 30° C.

2,653,971

MANUFACTURE OF ANTHRANILIC ACID

Clyde W. Balch, Toledo, Ohio, assignor, by mesne assignments, to Maumee Development Company, Toledo, Ohio, a corporation of Ohio

No Drawing. Application July 27, 1951, Serial No. 239,005
4 Claims. (Cl. 260—518)

1. In a method for the manufacture of anthranilic acid, the steps which comprise rapidly admixing in alkaline aqueous solution a solution of sodium hypochlorite at a temperature not exceeding 15° C. with an alkaline solution of phthalimide at a temperature not exceeding 35° C., the rate of admixture being such that the admixture is completed before the heat of reaction can raise the temperature substantially above 30° C.

2,653,972

PROCESS OF PRODUCING LOWER ALKYL-, CARBOXYMETHYL-, DIETHERS OF POLYOXYALKYLENE GLYCOLS

Arthur B. Ash and Donald R. Jackson, Wyandotte, Mich., assignors to Wyandotte Chemicals Corporation, Wyandotte, Mich., a corporation of Michigan

No Drawing. Application June 9, 1950, Serial No. 167,254
2 Claims. (Cl. 260—531)

1. The method of making mixtures of lower alkyl-, carboxymethyl-, diethers of polyoxyalkylene glycols of the type formula:

R—polyoxyalkylene—CH_2COOH

where: R is lower alkyl, and "Polyoxyalkylene" has terminal oxygen atoms and an average molecular weight of at least 286 and is selected from the group consisting of polymers of oxyethylene- and oxypropylene- groups, taken both individually and jointly, which comprises oxidizing a mixture of lower alkyl ethers of a polyoxyalkylene glycol, the total molecular weight of whose oxyalkylene groups is at least 330, in a reaction atmosphere that is saturated with nitrogen dioxide, such oxidation being conducted in the presence of 2–5 mols of 30–70% HNO_3 per mol of said polyoxyalkylene glycol ether at a temperature of 40–70° C.

2,653,973

ETHYLENE SULFONYL FLUORIDE AND ITS METHOD OF PREPARATION

Ross M. Hedrick, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application July 28, 1950, Serial No. 176,535
4 Claims. (Cl. 260—543)

1. Ethylenesulfonyl fluoride.

2,653,974

PROCESS FOR THE MANUFACTURE OF ORTHO-HYDROXYARYLCARBOXYLIC ACID-B-NAPHTHYLAMIDES

Alfred Hagenboecker, Basel, Switzerland, assignor to Ciba Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application May 28, 1951, Serial No. 228,781. In Switzerland June 8, 1950
11 Claims. (Cl. 260—560)

1. A process for the manufacture of ortho-hydroxyaryl carboxylic acid-β-naphthylamides which comprises heating in an indifferent diluent to a temperature above about 75° C. substantially one molecular proportion of an ortho-hydroxy aryl carboxylic acid chloride free from further substituents with substantially one molecular proportion of 2-aminonaphthalene-1-sulfonic acid, and recovering the β-naphthylamide free from sulfonic acid groups thus formed.

8. A process for the manufacture of 2-(2':3'-hydroxy-naphthoyl)-aminonaphthalene which comprises heating in an indifferent diluent to a temperature above about 75° C. substantially one molecular proportion of 2-hydroxynaphthalene-3-carboxylic acid in the presence of at least about 0.4 molecular proportion of phosphorus trichloride with substantially one molecular proportion of 2-amino-naphthalene-1-sulfonic acid, and recovering the β-naphthylamide free from sulfonic acid groups thus formed.

2,653,975

N-EXO-DIHYDRODICYCLOPENTADIENYL-ACRYLAMIDE

David T. Mowry and Eugene L. Ringwald, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application May 18, 1951, Serial No. 227,124
8 Claims. (Cl. 260—561)

1. An amide selected from the class consisting of N - exo-dihydrodicyclopentadienylacrylamide and N-exo-dihydrodicyclopentadienylmethacrylamide.

4. The method which comprises contacting, at a temperature of up to 60° C., substantially one mole of a nitrile selected from the class consisting of acrylonitrile and methacrylonitrile with substantially one mole of dicyclopentadiene in water and in the presence of an acid catalyst and recovering from the resulting reaction product an amide selected from the class consisting of N-exo-dihydrodicyclopentadienylacrylamide and N-exo-dihydrodicyclopentadienylmethacrylamide.

2,653,976

GUANIDINE SULFATE FROM UREA AND SULFUR DIOXIDE

Johnstone S. Mackay, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application May 15, 1951, Serial No. 226,549
7 Claims. (Cl. 260—564)

1. The process which comprises heating together urea and sulfur dioxide at a temperature within the range of about 190° to 300° C. in a closed vessel under a pressure of at least 100 p. s. i. whereby a reaction mass containing a guanidine sulfate is formed.

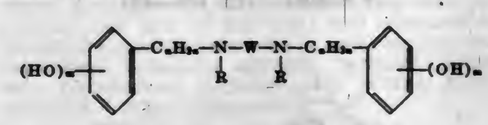
2,653,977

BIS-(SUBSTITUTED-PHENYLALKYL-AMINO)-COMPOUNDS

Paul N. Craig, Elkins Park, and Fred P. Nabenhauer, Philadelphia, Pa., assignors to Smith, Kline & French Laboratories, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application December 29, 1951, Serial No. 264,256
6 Claims. (Cl. 260—570.5)

1. Compounds selected from the group consisting of a free base and its acid addition salts, said free base having the structure



in which m is an integer from the group consisting of 2 and 3; n is an integer from 1 to 6 inclusive; R is selected from the group consisting of hydrogen and lower alkyl; W is a bridging member selected from the group consisting of alkylene having not more than 14 carbon atoms, alkylene-phenylene-alkylene having 8 to 16 carbon atoms, alkylene-oxy-alkylene having 4 to 14 carbon atoms, alkylene-thio-alkylene having 4 to 14 carbon atoms, alkylene-amino-alkylene having 4 to 14 carbon atoms, alkylene-alkyl-amino-alkylene having 5 to 21 carbon atoms, and alkylene-aralkylamino-alkylene having 11 to 23 carbon atoms.

2,653,978

PREPARATION OF β,β'-BIS(ALKYLMERCAPTO)DIETHYL ETHER

Edward L. Deerr, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application February 3, 1949, Serial No. 74,465
6 Claims. (Cl. 260—609)

1. A method of preparing β,β'-bis(alkylmercapto) diethyl ether which comprises contacting in liquid phase β-(alkylmercapto) ethanol, wherein the alkyl radical has from four to eighteen carbon atoms, with a catalyst selected from the group consisting of acidic esterification catalysts and acid reacting salts at a temperature less than about 110° C. and separating the resultant water-insoluble product.

2,653,979

PREPARATION OF DIARYLETHANES

Edward L. Kropa, Old Greenwich, and Arthur S. Nyquist, Cos Cob, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application November 5, 1948, Serial No. 58,604
6 Claims. (Cl. 260—668)

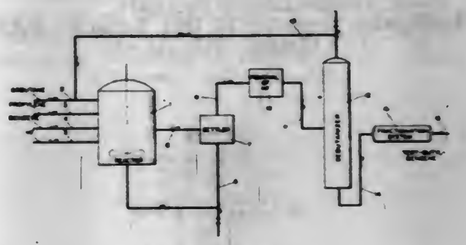
1. A process which comprises reacting substances consisting of an aryl compound containing at least one hydrogen atom attached to an aromatic nucleus with vinyl acetate in molar proportions of at least 2:1 and in the presence of an alkylation catalyst, whereby a 1,1-diarylethane is produced.

2,653,980

ALKYLATION OF AROMATIC HYDROCARBONS WITH ISOPARAFFINS

Francis E. Condon, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application August 30, 1946, Serial No. 694,131
7 Claims. (Cl. 260—671)



1. The process of alkylating an aromatic hydrocarbon which comprises subjecting a hydrocarbon mixture in which the reactive components consist essentially of an aromatic hydrocarbon, an isoparaffin having 4 to 20 carbon atoms per molecule and an aliphatic olefin, having a skeletal configuration different from that of the isoparaffin, in admixture with an alkylation catalyst consisting of substantially anhydrous hydrofluoric acid, the molecular ratio of said isoparaffin to said aromatic hydrocarbon being at least 10:1, the molecular ratio of said aromatic hydrocarbon to said olefin being between 0.5:1 and 2.0:1 to a reaction temperature of from 20 to 30° C. for a reaction time of at least 5 minutes but not over one hour and under a pressure such as to maintain the materials present in the liquid phase, whereby said aromatic hydrocarbon is alkylated with said olefin and is concomitantly alkylated with an alkyl group derived from and having the skeletal structure of said isoparaffin and recovering said aromatic hydrocarbon alkylated with said alkyl group derived from and having the skeletal structure of said isoparaffin as the product of the process.

2,653,981
PROCESS FOR METHYL GROUP SHIFTING OF OLEFIN
John Paul Hogan, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application January 24, 1951, Serial No. 207,650
16 Claims. (Cl. 260—683.2)

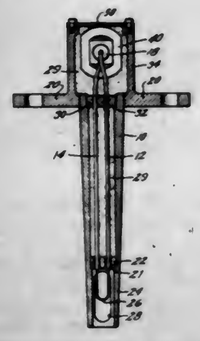
1. A process for shifting a methyl group in the molecule of a branched-chain olefinic hydrocarbon having from 8 to 16 carbon atoms per molecule, having at least three methyl groups as side chains, at least two of said methyl groups being joined to adjacent carbon atoms in the main chain, and in which any quaternary carbon atom the methyl groups of which are to be shifted is adjacent at least one tertiary carbon atom, which process comprises contacting said hydrocarbon with a catalyst comprising silica gel promoted with 0.1 to 10 weight per cent alumina and 0.01 to 10 weight per cent of an oxide of a metal selected from the group consisting of nickel and cobalt at a temperature in the range of 75° to 175° F., a pressure of 1 to 50 atmospheres and a space velocity of 0.2 to 20 liquid volumes per volume of catalyst per hour.

2,653,982
CATALYTIC ALKYLATION OF ISOPARAFFINS WITH OLEFINS
Robert M. Kennedy, Newtown Square, and Conard K. Donnell, Springfield, Pa., assignors to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
No Drawing. Application March 30, 1951, Serial No. 218,530
21 Claims. (Cl. 260—683.4)

1. Method of preparing branched chain paraffins which comprises reacting, at a temperature of from —120° C. to 150° C., an isoparaffin and an olefin in the presence of a catalyst comprising an admixture of BF_3 and an alkyl fluoride having at least two carbon atoms per molecule, said admixture being prepared in the presence of said isoparaffin and said olefin, wherein the mole ratio of BF_3 to said alkyl fluoride is from 1 to 10 and wherein the amount of BF_3 is at least 7 mole percent of the reaction mixture.

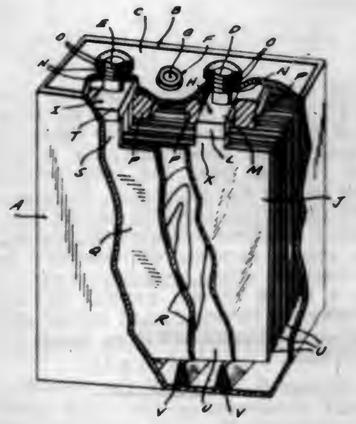
ELECTRICAL

2,653,983
THERMOCOUPLE UNIT
Stanley G. Best, Manchester, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application November 28, 1951, Serial No. 258,717
4 Claims. (Cl. 136—4)



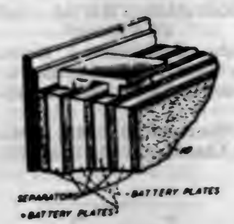
3. A thermocouple comprising a tubular supporting member, a pair of wires supported in said member and joined at one end to form the thermocouple junction, a common ceramic potting compound supporting substantially the entire length of both wires in said member leaving the junction exposed, mounting means for said tube and lead wires connected to said first-mentioned wires, a window formed in said tube walls adjacent said junction at one end of said tube, said junction comprising a flattened portion bent into a U-shape with the thin edge forming the face of the U and facing said window and with the wide sides of the U adjacent the solid portion of the tube walls whereby the tube walls act as a radiation shield for said junction.

2,653,984
ELECTRIC STORAGE BATTERY
Marcello Samer Godeas, Seville, Spain
Application August 16, 1952, Serial No. 304,807
In Spain August 16, 1951
9 Claims. (Cl. 136—22)



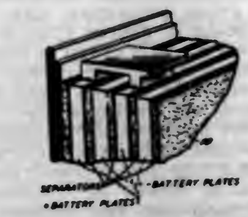
1. An accumulator for storing electrical energy, comprising, in combination, a container having an open upper end; a lid closing said upper end of said container and having an edge portion rigidly connected to the edge portion of said upper end of said container, said lid having two openings and an internally threaded aperture serving for filling the accumulator with electrolyte; two pins arranged, respectively, in said openings of said lid, said pins forming the positive and negative terminals of the accumulator; an externally threaded plug screwed into said internally threaded aperture of said lid and having at least one boring for the escape of the gases formed inside the accumulator; at least one positive electrode arranged in said container and connected to said pin forming the positive terminal of the accumulator, said positive electrode including a pressed plate consisting of a mixture of finely divided carbonaceous material and manganese dioxide and asbestos threads connected to one another and pressed into said plate so as to form a compact body having a high mechanical rigidity and porosity; and at least one negative electrode arranged in said container and connected to said pin forming the negative terminal of the accumulator.

2,653,985
BATTERY PLATE SEPARATOR
Thomas E. Philipps, Granville, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application December 28, 1949, Serial No. 135,486
15 Claims. (Cl. 136—145)



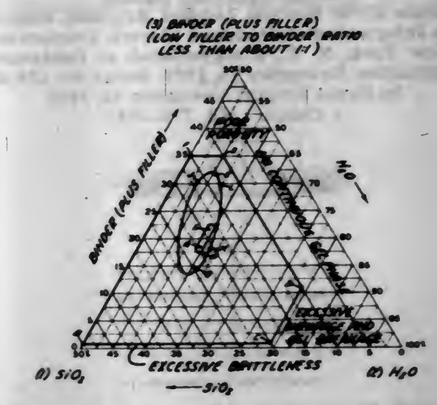
1. A combined separator and retainer for storage batteries comprising a mat of glass fibers mechanically bound at their junctures by a resin and an adhesive microporous composition providing a continuous, non-impregnating cover on at least one side of the mat, said composition comprising diatomaceous earth particles and unvulcanized butadiene styrene particles which were polymerized approximately in the molar ratio of 2:3, respectively.

2,653,986
BATTERY PLATE SEPARATOR
Thomas E. Philipps, Granville, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application October 24, 1951, Serial No. 252,841
5 Claims. (Cl. 136—145)



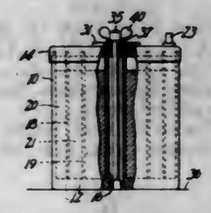
1. A combined separator and retainer for storage batteries comprising a mat of glass fibers mechanically bound one to the other at their junctures and an adhesive microporous composition providing a continuous, non-impregnating cover on at least one side of the mat, said composition comprising diatomaceous earth particles bound by elastomer particles consisting of a 40:60 butadiene-styrene copolymer and a 20:80 butadiene-styrene copolymer to provide both wet and dry strength.

2,653,987
POROUS MATERIAL USEFUL IN BATTERY SEPARATORS
Joseph A. Baty, Weston, Ohio, assignor to Cresset Research Corporation, Weston, Ohio, a corporation of Ohio
Application August 24, 1949, Serial No. 112,109
31 Claims. (Cl. 136—146)



5. A porous material comprising a continuous silical aerogel phase and, intimately incorporated therein, polystyrene, wood flour and a small amount of an alkaline earth metal carbonate.

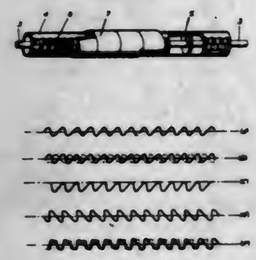
2,653,988
STORAGE BATTERY AND MOUNTING AND CONNECTION MEANS THEREFOR
John L. Rupp, Williamsville, N. Y., assignor to National Battery Company, St. Paul, Minn.
Application November 12, 1949, Serial No. 126,901
8 Claims. (Cl. 136—181)



2. In combination, a storage battery comprising a unitary case, said case having an interior wall portion apertured vertically throughout the extent of said battery case, a battery terminal conductor extending from one of the terminals of said battery into position adjacent the top end of the aperture through said battery case, and a battery mounting structure comprising a battery installation platform adapted to receive said battery in resting position thereon, elongate projecting hold-down means extending from said platform adapted to slip-fit through said aperture when the battery is lowered into mounting position, and connection means provided at the outer end of said hold-down means adapted to extend over said terminal conductor and to detachably connect said hold-down means to the cover of said battery and to bear thereagainst with said terminal conductor therebetween to hold said battery in firmly mounted position upon said platform and to electrically contact said terminal conductor, said connection means and said hold-down means comprising electrically conduc-

tive material for providing grounded connection of said battery through said terminal to the structure electrically connected to said platform.

2,653,989
COAXIAL ELECTRIC CABLE WITH CORRUGATED SEAM
William Kirby Weston, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application November 14, 1949, Serial No. 126,936
In Great Britain November 16, 1948
1 Claim. (Cl. 174—28)



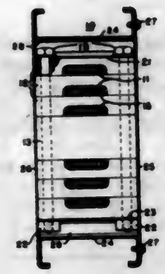
A high frequency electric communication cable of the coaxial conductor type, comprising an inner conductor core assembly and an outer conductor consisting of a flexible metal strip folded longitudinally to form a tube around said inner conductor core assembly, the opposite longitudinal edges of said strip being corrugated and deformed from a natural symmetrical shape, the deformation taking place in opposite directions longitudinally of the strip, whereby the abutting edges are prevented from over-riding, irrespective of the flexing of the cable.

2,653,990
APPARATUS FOR USE IN MAKING GEOPHYSICAL EXPLORATIONS
Arthur A. Brant, Clarkdale, Ariz., assignor to Newmont Mining Corporation, New York, N. Y., a corporation of Delaware
Application March 21, 1951, Serial No. 216,751
2 Claims. (Cl. 174—68)



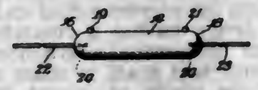
1. A tubing arrangement for insertion into a drill hole for the purpose of making geophysical exploration by means of apparatus disposed within the tubing and electrically connected to a point external of the drill hole by a cable extending through the tubing, said arrangement comprising a plurality of axially-disposed tubes, the external surfaces of adjacent tubes being in flush relation to each other; means forming a longitudinal slot extending the full length of each tube and completely through the tube wall; and complementary threads on the ends of adjacently-disposed tubes, said threads being oriented with respect to the associated tube slot such that the slots in adjacent tubes can be alined by rotating one tube relative to the other, thereby permitting passage of the cable through the mutually-threaded portions of the tubes, and the tube slots in adjacent tubes will be out of alinement when the tubes are tightened into the fully threaded position, thereby preventing passage of the cable through the mutually-threaded portions of the tubes.

2,653,991
BUS DUCT FOR ELECTRICAL DISTRIBUTION SYSTEMS
Lloyd W. Dyer and William F. Born, Beaver, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 19, 1949, Serial No. 71,584
5 Claims. (Cl. 174—99)



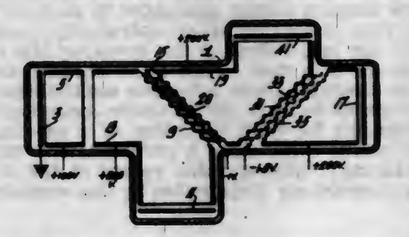
1. In a bus duct, in combination, a housing of generally rectangular cross section and having a cover at one side, at least two groups of substantially flat bus bars disposed in the housing with the plane of each of the bars perpendicular to the greatest cross-sectional dimension of the housing, each group containing three bus bars, said bus bars being so spaced that the distance between the bars of each group is less than the distance between groups, the distance between groups being sufficient for the installation of a neutral bar, each bar having a layer of insulation thereon over substantially its entire length, a plurality of supporting blocks for retaining the bus bars of each group in said closely spaced relation, an insulating sleeve surrounding part of the length of each bar and disposed between said insulation and said blocks, said blocks engaging substantially the entire periphery of said sleeve which is between the blocks, spacing means disposed between said groups of bus bars, tie bolts for clamping said blocks against the sleeves on the bus bars in an assembled group, said blocks being disposed in contiguous relation and having notches therein to receive the bus bars, and the assembled group of said bus bars, blocks, spacing means and tie bolts being insertable into said housing as a unit before said cover is installed.

2,653,992
TERMINAL CONSTRUCTION FOR ELECTRIC COIL FORMS
Ralph M. Hill, Riverside, Ill., assignor to Grayhill, Chicago, Ill., a partnership
Application October 19, 1950, Serial No. 191,023
1 Claim. (Cl. 174—138)



A coil form for use in supporting the winding of an electrical impedance unit and for making electrical connections to the ends thereof, with said form providing a smooth surface for the winding between the connections, said form including, an elongated cylindrical body of molded insulating material, conductive wires embedded in and projecting from each of the ends of said elongated body, said conductive wires having reduced portions in the parts thereof embedded in said body for providing a locking connection therewith, and a small substantially cylindrical projection extending radially from the outer periphery of said cylindrical body adjacent each of said ends thereof, said projections being molded integrally with said body and being longitudinally aligned along the surface thereof, said ends of said cylindrical body being of rounded configuration to provide a smooth surface from said projections to said conductive wires.

2,653,993
SIMULTANEOUS COLOR TELEVISION OPTICAL SYSTEM
Alfred C. Schroeder, Feasterville, Pa., and George C. Szikiai, Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application April 29, 1948, Serial No. 23,914
15 Claims. (Cl. 178—5.4)



1. An apparatus for dividing optical images into selected component color images comprising means for producing electron images of said optical images, a plurality of electron image targets, electron image focus means for simultaneously transferring all parts of said electron images by electron flow from said electron producing means to at least one of said targets in image focus, the threshold velocity of the electrons in said flow dependent upon the corresponding electron image area color representative characteristics, and means for selectively reflecting the electrons of said electron flow in accordance with their velocity.

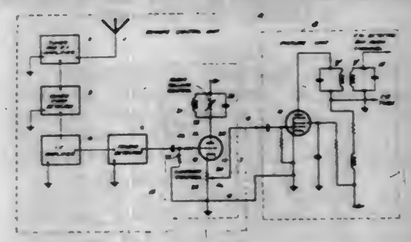
2,653,994
COLOR WHEEL FOR TELEVISION
Joseph W. Jones, New York, N. Y.
Application July 12, 1951, Serial No. 236,293
5 Claims. (Cl. 178—5.4)

1. A color wheel for viewing color pictures appearing in black and white on a television screen, and comprising a small synchronous motor having a shaft, a color disc mounted on said shaft and rotated by said motor, said color disc having twelve equal color segments of three colors arranged in four groups with like color segments diametrically opposite and pairs of like color segments separated by two segments of unlike colors, a cover over said disc having pupillary spaced eye openings above the center of the disc at a point



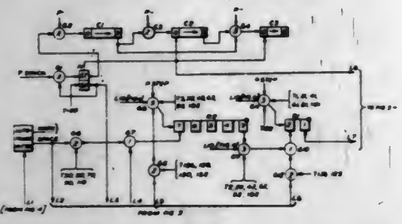
to simultaneously expose each pair of like color segments travelling through the upper arc of rotation and having an opening at the center exposing the end of the motor shaft for gripping engagement by the fingers and a friction clutch adjustably holding said color disc on the shaft and whereby when the shaft is held the color disc may be relatively adjusted thereon for bringing the color segments of the disc into properly phased relation with the motor.

2,653,995
INTERCARRIER SOUND TYPE TELEVISION RECEIVER VOLUME CONTROL
Homer G. Boyle, Cincinnati, Ohio, assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware
Application August 30, 1950, Serial No. 182,297
8 Claims. (Cl. 178—5.8)



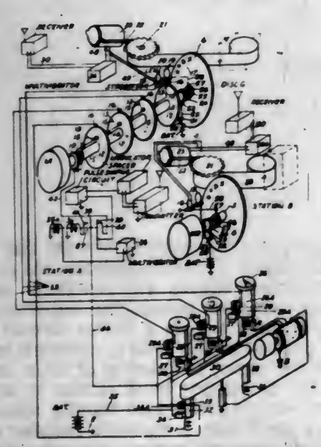
7. In a signal translating system the combination comprising a potentiometer, an output circuit connected across the variable portion of said potentiometer, means for impressing a plurality of signals across a series circuit comprising said potentiometer and a resonant impedance tuned to the mean frequency of only one of said signals, the frequency bandwidths of said signals being non-overlapping and fixedly spaced in the frequency spectrum, a variable resistor connected across said resonant means, whereby adjustment of said variable resistor varies the amplitude of said one of said signals impressed across said potentiometer.

2,653,996
ELECTRIC TELEGRAPH SYSTEM
Esmond Philip Goodwin Wright, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application November 10, 1951, Serial No. 255,794
In Great Britain November 8, 1950
15 Claims. (Cl. 178—23)



1. Telegraph transmission error-detection system using only two signalling conditions (marks and spaces) comprising means at a transmitter for transmitting characters by code combinations, each combination having a predetermined number of mark and/or space elements, means for transmitting after each group of n character code combinations an additional cross-check combination, the repective elements of which depend upon the relation between the marks and spaces in the correspondingly positioned elements in the combinations of the preceding group, means at a receiver for receiving all said combinations, means for examining the received character combinations to detect an incorrectly received combination, means for examining said cross-check combination to detect the position of an incorrectly received element, and means operable upon the detection by said examining means of an incorrectly received combination and an incorrectly received element in the same group to correct said element in said combination.

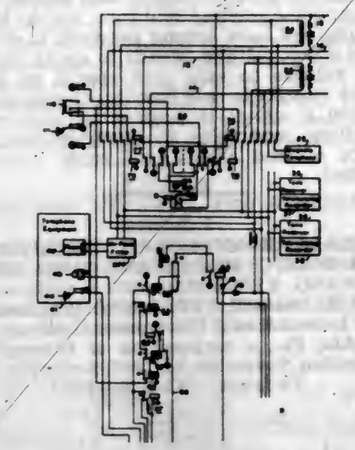
2,653,997
TELETYPEWRITER
Alfred A. Sweeny, Denver, and Maurice F. Sweeny, Silt, Colo.
Application September 27, 1951, Serial No. 248,576
1 Claim. (Cl. 178—68)



A device for transmitting intelligence to and from two spaced stations comprising, in combination, a set of movable keys, one for each character to be transmitted, a source of direct electric current one pole of which is grounded, a stationary contact electrically connected with the ungrounded pole of the current source, operatively positioned adjacent each key, each key having two electrically insulated contacts positioned thereon for movement into electrical engagement with the corresponding stationary contact, each device having a rotatably mounted shaft, means comprising a synchronous motor connected with said shaft to effect synchronous rotation of the shafts of spaced devices, each shaft having a disk attached to one end thereof, said disk having the characters to be transmitted arranged in a circular zone, in angularly spaced relation, the characters having transparent outlines, the shaft having a contact for each character supported thereon for conjoint rotation therewith, each contact moving in a circular path when the shaft turns, a brush positioned in the path of each contact so as to be in conductive engagement therewith once each revolution of the shaft, the several contacts being angularly spaced so that they come into engagement with their corresponding brushes successively when the shaft turns, the angular displacement of the contacts being equal to 360 degrees divided by the number of characters, a strobotron positioned to throw a beam of light on the zone of the disk which contains the outlines of the characters, a slip ring on the shaft, means for electrically connecting all of the said contacts with the slip ring, one of the two contacts on each key being electrically connected with one of said brushes whereby the said contact on the key will be in electric conductive relation with the slip ring once each revolution of the shaft, means effecting an operation of the strobotron at the instant when an energized brush comes into electric engagement with a rotating contact whereby the character on the rotating disk which corresponds to the energized brush will be illuminated, means including a multivibrator and a pulse shaping circuit connected in parallel to the slip ring, a locking relay operatively connected with the multivibrator for breaking the circuit from the slip ring to the multivibrator and the pulse shaping circuit after the multivibrator has functioned to allow only a single operation of the strobotron for each operation of a sending key, and means comprising a photosensitive tape for producing a photographic record of the characters successively illuminated by the strobotron.

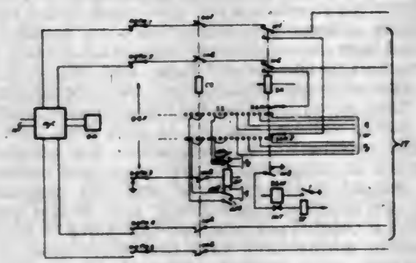
2,653,998
REMOTE-CONTROL SYSTEM
Willard A. Derr, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 23, 1949, Serial No. 77,738
17 Claims. (Cl. 179—2.5)

1. In a supervisory control system, supervisory control equipment at a dispatching office and a remote substation connected by main and spare signal channels for transmitting and receiving coded signals over one of said channels, transfer means normally connecting the supervisory control equipment to the main channel and operable to connect the supervisory equipment to the spare channel, and supervision means including means for normally maintaining a line supervision current flowing in the main signal channel separate and distinct from said coded signals, and relay means normally responsive to said current operable in response



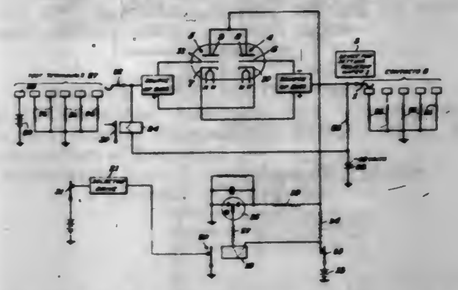
to a fault on the main channel which appreciably reduces said current to effect operation of the transfer means.

2,653,999
ECHO SUPPRESSOR INSERTION
Esmond Philip Goodwin Wright, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application April 22, 1948, Serial No. 22,605
In Great Britain April 29, 1947
6 Claims. (Cl. 179—16)



1. A telecommunication system having a plurality of exchanges controlling channels of different types and comprising switch means for establishing a connection between any channel of a first exchange and any channel of a second exchange through said exchanges, said switch means comprising means at said first exchange for transmitting to said second exchange predetermined signals indicative of connection to said first exchange of a particular type of channel and for transmitting to said second exchange channel selecting signals, an echo suppressing means, means for selectively connecting said echo suppressing means in circuit with said exchanges, means at said second exchange for receiving and recording signals from said first exchange and means at said second exchange for operating said selective-connecting means in response to receipt of said predetermined signals and a predetermined one of said selecting signals indicating the interconnection of two channels of a predetermined type.

2,654,000
MULTIPOTENTIAL TYPE REGISTER CONTROLLER
Gerald Deakin, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application May 20, 1948, Serial No. 28,253
6 Claims. (Cl. 179—18)

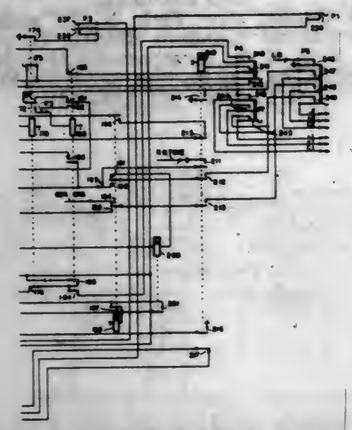


1. A control device comprising a potentials-comparing circuit having a first input for receiving a control potential and a second input for receiving test potentials, means for applying a control potential to said first input, means for successively applying different test potentials to the second input, means in the comparing circuit operable when it receives a test potential corresponding to the control potential to perform a control function, the means for applying test potentials comprising a plurality of contacts each connected to a common potential point over a voltage dividing impedance individual to each contact, means including a contact-engaging element for successively connecting the contacts to said second input, a common voltage dividing impedance, a source of direct current potential, and means for connecting the source of direct potential and the common voltage dividing impedance in series between the common point and said contact engaging element, whereby when said element is on a contact, current from said source will flow through said common impedance and the impedance individual to said contact, and the values of said impedances will determine the potential on said element.

2,654,001
SEQUENCE SWITCH CIRCUIT
Clarence E. Lomax, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application January 18, 1952, Serial No. 267,121
4 Claims. (Cl. 179—18)

1. In a connector switch circuit, a primary magnet and a secondary magnet for driving said connector switch, a sequence switch including a magnet therefor, a pulsing circuit for transmitting series of impulses, circuit means connecting said pulsing circuit to said primary magnet, a second circuit means for connecting said pulsing circuit to said secondary magnet, a third circuit means for connecting said pulsing circuit to said sequence switch magnet, means associated with said pulsing circuit for operating said sequence switch after transmission of each of a first and second series of impulses, a first means operated by said sequence switch after transmission of a first series of impulses for disabling said first circuit means and for operating said second circuit means, a second means operated by said sequence switch after transmission of a second se-

ries of impulses for disabling said second circuit means and for operating said third circuit means,



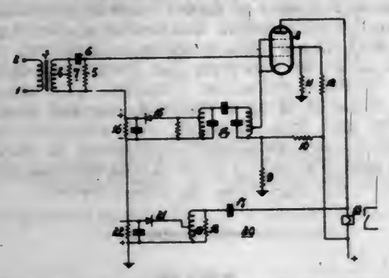
and a third means operated by said sequence switch during transmission of a third series of impulses for disabling said third circuit means.

2,654,002

CIRCUIT-ARRANGEMENT IN A TELEPHONE SYSTEM FOR THE RECEPTION OF SIGNALS

Cornelis Hooijkamp, Hilversum, Netherlands, and Rudolf Haus, Zurich, Switzerland, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application March 3, 1951, Serial No. 213,784
In the Netherlands March 17, 1950
4 Claims. (Cl. 179—84)



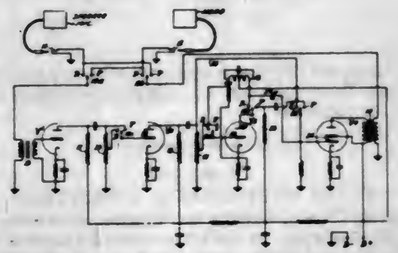
1. Telephone apparatus for the interception of signals lying within the frequency range of a speech frequency band contained in incoming oscillations, said apparatus comprising a discharge tube including a cathode, a grid and an anode and circuits therefor, means to supply said incoming oscillations to the grid circuit of said tube, a first band-pass network having an input impedance and having a frequency band-pass which includes the signal frequency and which is narrow with respect to said speech frequency band, said input impedance being included in the cathode circuit of said tube to develop a negative feedback voltage thereacross which is maximum with regard to the frequencies within the band-pass of said first network, a second band-pass network having a frequency band-pass which also includes the signal frequency and whose band-pass is wider than that of said first network, a relay provided with an energizing coil included in the anode circuit of said tube, means to supply a positive potential through said coil to said anode, means to rectify the output of the first network to produce a first direct voltage, means to supply said first voltage to the grid circuit of said tube thereby to govern current flow in said coil, means coupling the input circuit of said second network to the anode circuit of said tube, means to rectify the output of said second network to produce a second direct voltage, means to apply the second direct voltage to said grid circuit in opposing polarity relative to said first direct voltage whereby when a signal is present in said incoming oscillations said relay is energized and in the absence of said signal said relay remains de-energized.

2,654,003

OSCILLATOR-AMPLIFIER CIRCUITS FOR MAGNETIC RECORDING AND REPRODUCING SYSTEMS

Daniel H. Dashiell, Philadelphia, Pa., assignor to The International Electronics Company, Philadelphia, Pa., a corporation of Pennsylvania

Application November 24, 1947, Serial No. 787,640
3 Claims. (Cl. 179—100.2)



1. In magnetic recording apparatus of the type which employs the same components for recording and reproducing, an amplifier-oscillator unit, comprising a first discharge tube and a second discharge tube, a first variable attenuator connectible to control the first tube and a second variable attenuator connectible to control the second tube, an oscillatory network adapted to be connected to the second tube, and switch means for alternatively establishing two conditions, in the first of which the first attenuator controls the signal voltage applied to said first tube, the second attenuator is inoperative, the oscillatory network is connected to the input and output of the second discharge tube and the outputs of said two tubes are combined, and in the second of which conditions said two tubes are in cascade amplifier connection, said first attenuator is inoperative, said second attenuator controls the voltage applied to the grid of said second tube, and said oscillatory network is inoperative.

2,654,004

TRAVELING WAVE AMPLIFIER DEVICE

Robert S. Bailey, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application August 14, 1947, Serial No. 768,577
9 Claims. (Cl. 179—171)



9. A traveling wave amplifier comprising a pair of amplifier units, each unit consisting of a wave guide divided into two sections by a foraminous conductive wall, each unit also having means

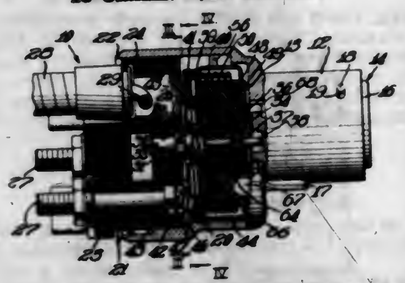
to emit electrons transversely across both sections and through the respective foraminous wall, means to couple both of said units to a source of high frequency energy, the last-mentioned means including a pair of linear wave guides for coupling the corresponding sections of said units to said source, and a Y-junction wave guide having the arms of the Y respectively coupled to the other sections of said units to cause the electric fields of the wave energy in the two sections of each unit to be of substantially opposite phase.

2,654,005

COMBINED STARTER AND IGNITION SWITCH

Nelson H. Weber, Bronson, Mich., assignor to Kingston Products Corporation, Kokomo, Ind., a corporation of Indiana

Application July 26, 1951, Serial No. 238,685
13 Claims. (Cl. 200—44)



1. A key actuated switch comprising an open-ended housing, a keylock cylinder having tumblers therein in one end of said housing, a key rotatable shaft extending through said cylinder and controlled by said tumblers, a base assembly in the other end of said housing having a pivot pin assembly extending toward one end of said housing, and a switch assembly journaled on said pivot pin assembly for rotation in said housing and having a driven connection with said shaft, said pivot pin assembly having an axially movable continuously biased pin extending from the end thereof and engaging said shaft, thereby to minimize rattling of said keylock cylinder.

2,654,006

LIGHT SWITCH UNIT

Wilmer H. Schafer, Philadelphia, Pa.

Application September 18, 1950, Serial No. 185,485
8 Claims. (Cl. 200—51.04)



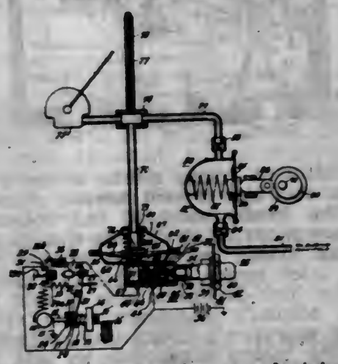
1. A switch unit comprising a casing, a first rotatable switch unit disposed in said casing, a plunger reciprocably mounted in said casing, means responsive to reciprocation of said plunger for rotating said first switch unit, a control knob nonslidably and rotatably mounted on said plunger, a second switch unit carried by said plunger, said control knob operatively contacting said second switch unit to rotate said second switch unit in response to rotation of said control knob, contact strips disposed in said casing, and second switch contact fingers carried by said plunger slidably contacting said strips.

2,654,007

ENGINE STARTER CONTROL

Paul L. Schneider, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application April 2, 1949, Serial No. 85,231
3 Claims. (Cl. 200—83)



1. Control apparatus for an electrically operated engine starter comprising a manually operated, normally open switch the closing of which causes the engine starter to operate, said switch including a movable switch closing member, means operated by engine suction for blocking movement of the contacting closing member when the engine is self-operative and comprising a suction chamber member connected with the engine intake, a diaphragm closing one side of the chamber member, a spring opposing movement of the diaphragm by engine suction and returning the diaphragm to normal position when the engine stops, and a blocker attached to the diaphragm and located in non-blocking position when the diaphragm is in normal position, and means for retarding movement of the diaphragm to normal position when the engine stops for a time sufficient for the engine starter to become stationary, said means including a valve operable to prevent communication between the suction chamber and the intake manifold upon a predetermined decrease in manifold suction and a passage connecting said suction chamber directly with the atmosphere having a piece of porous fibrous material positioned therein to restrict the passage of air therethrough, whereby movement of the diaphragm toward its normal position is retarded upon a reduction in manifold suction.

2,654,008

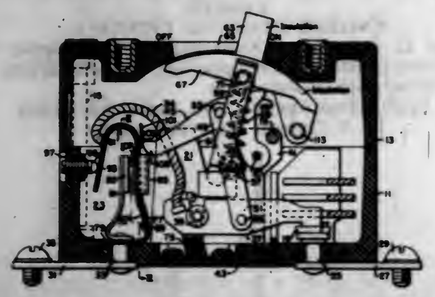
CIRCUIT BREAKER

Julius Toth, Beaver, and Francis L. Geiszheiser, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 8, 1950, Serial No. 183,836
8 Claims. (Cl. 200—88)

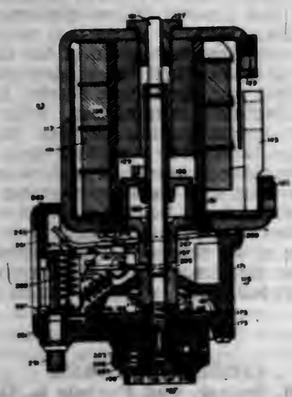
1. A circuit breaker having relatively movable contact means, means releasable to effect auto-

matic opening of said contact means, current-responsive means comprising a U-shaped bimetal element formed from a single strip of bimetallic material and having the high-expansion side disposed on the outside of the U, said bimetal element having legs of unequal length and connected in the circuit of the breaker so that the longer leg and at least a portion of the shorter leg are heated by the current of the circuit, means fixedly mounting the longer leg of said bimetal element, an adjustable abutment at all times cooperating with the shorter leg of said



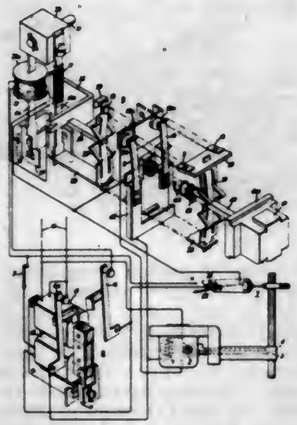
bimetal element, spring means mounted on the low-expansion side of said bimetal element adjacent the fixedly mounted end thereof, said spring means having an opening therein through which the longer leg of said bimetal element extends, latch means on said spring means adjacent the high-expansion side of said bimetal element normally restraining said releasable means in operative position, and projections on said spring means engageable by said bimetal element upon thermal bending of said bimetal element to effect release of said releasable means and opening of said contact means.

2,654,009
CIRCUIT BREAKER
Bernard G. Tremblay, Pittsburgh, and William H. Stuellein, East McKeesport, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 11, 1950, Serial No. 143,722
8 Claims. (Cl. 200—108)



1. In a circuit breaker, the combination of a trip device operable to effect automatic operation of said breaker comprising a trip member, electromagnetic means for operating said trip member, a time delay element having a passage therein for retarding tripping movement of said trip member, a chamber enclosing said time delay element, means defining a second passage communicating with said chamber on one side of said time delay element, valve means controlling said second passage to admit fluid to said chamber to retard tripping movement of said trip member, and a valve member on said trip member operable upon energization of said electromagnet to engage said time delay element to close the passage in said time delay element, said valve member being movable upon deenergization of said electromagnet to open said passage.

2,654,010
THERMAL TIMING APPARATUS
Philip G. Hughes, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application January 18, 1949, Serial No. 71,504
9 Claims. (Cl. 200—122)

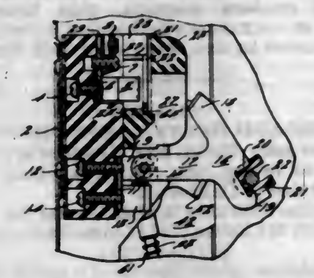


1. In a thermal timer, a base, a movable support rotatably mounted upon said base, a pair of elongated thermally deformable members of unequal lengths each mounted at one end upon said support and having a free end extending outwardly therefrom, said deformable members being disposed to deflect when heated in the same angular direction about the axis of said movable support, stop means holding the free end of the longer said deformable member fixed with respect to said base whereby deformation of said longer member effects pivotal movement of said support, and an electric heating resistor having a positive temperature coefficient of resistance disposed in heat conducting relation with said longer deformable member, the difference in the lengths of said deformable members being such that the resulting unequal deformations of the deformable members substantially compensate for changes in the heating of said longer member due to current changes in said heating resistor resulting from temperature produced changes in the resistance thereof.

2,654,011
ELECTRIC SWITCH
Ralph H. Kingdon, Detroit, Mich., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Application July 14, 1950, Serial No. 173,820
21 Claims. (Cl. 200—144)

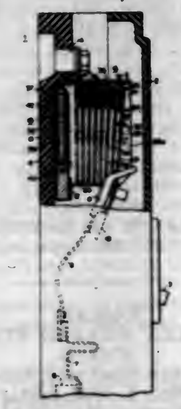
1. An electrical switch comprising in combination, an insulating base, stationary contacts and terminals mounted on said base, substantially

Y-shaped blade members, said blade members pivotally mounted on said base adjacent to the end of one leg and having their other leg cooperating with a stationary contact, an insulating cover mounted over the stationary contacts and terminals, said insulating cover having slots



therethrough through which the blade members travel to contact the stationary contacts, and means pivotally mounting said cover at the pivotal mounting of said blade members so that it will swing to uncover the contacts and terminals while remaining supported at said pivotal mounting.

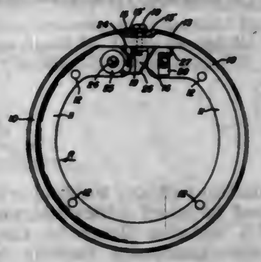
2,654,012
CIRCUIT INTERRUPTER
Albert R. Cellerini, Beaver, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 8, 1950, Serial No. 154,813
8 Claims. (Cl. 200—147)



1. A circuit interrupter including means for establishing an arc, an arc chute including a plurality of spaced composite metallic plates, the arc entering portion of each composite plate being U-shaped and formed of magnetic material, the rear portion of each composite plate being formed solely of non-magnetic material, and means for forcing the established arc into the arc chute to become subdivided thereby into a plurality of serially connected arcs.

2,654,013
SLIDE WIRE DEVICE FOR RECORDERS
Ernst Umrath, Bloomingdale, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application June 2, 1952, Serial No. 291,429
3 Claims. (Cl. 201—56)

1. In a slide wire device for recorders the combination of a ring member of insulating material having a pair of parallel grooves and a radial recess formed in the peripheral surface; a pair of helical resistance wires wound on individual cores and partially disposed within said grooves, said wires being insulated from the cores and each core having ends formed in loops disposed within the recess; fastening means securing the core loops to the ring member in overlapping relation;



flexible contact terminals clamped between the resistance wires and the ring member, said terminals including central portions conforming in contour to that of the helical wires and said terminals being connected to the resistance wires at precise points spaced apart a predetermined number of angular degrees; and an adjusting resistor carrier by the ring member, said resistor having ends connected to the contact terminals associated with one of the resistance wires.

2,654,014
METHOD OF INERT-ARC WELDING OF STAINLESS TUBING
Walter S. Schaefer, Euclid, Ohio, assignor to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey
Application February 19, 1948, Serial No. 9,575
2 Claims. (Cl. 219—6)



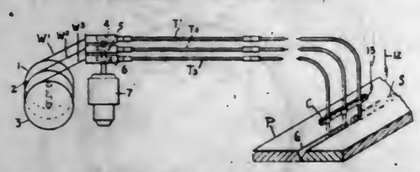
1. A method of welding a longitudinal seam in metallic tube blanks which comprises the steps of injecting inert gas into the interior of the tube blank at a certain portion thereof, confining the inert gas in said portion of the blank, striking an arc against the seam at said portion of the blank, maintaining the heat of the arc solely by flow of electrical current, causing relative motion between the arc and the blank, whereby the inert gas is injected in successive different portions of the blank, passing a magnetic field through the arc transversely to the arc and to the said direction of motion, of such polarity in relation to the polarity of the arc current as to apply a force to the arc in a direction opposite to the relative direction of motion of the blank and of insufficient strength to hold the arc vertical but sufficient to hold the arc substantially erect with a slight arc trail, and thereby electromagnetically deflecting the arc in a direction opposite to the relative direction of motion of the blank, whereby the angle of arc trail is diminished and the seam is welded by a stabilized arc as the blank progresses relative to the arc notwithstanding the inert condition surrounding the arc, the arc being strained electromagnetically to prevent it from wandering.

2,654,015

METHOD AND APPARATUS FOR ARC WELDING USING A PLURALITY OF ELECTRODES

George G. Landis, South Euclid, and Norman J. Hoenie, Cleveland Heights, Ohio, assignors to The Lincoln Electric Company, Cleveland, Ohio, a corporation of Ohio

Application March 1, 1950, Serial No. 147,084
6 Claims. (Cl. 219—10)



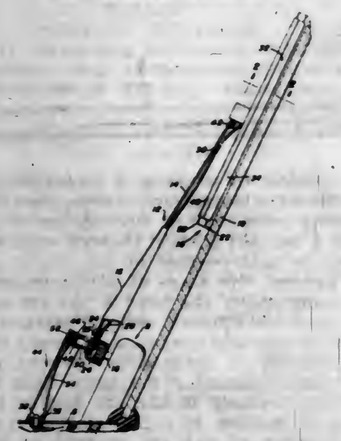
1. In a method of arc welding wherein an arc is established between a metallic work-piece and the end of a metallic electrode, the steps which comprise simultaneously feeding to the work-piece a plurality of said electrodes in spaced relation to each other, and simultaneously supplying to the terminal portions of all said electrodes adjacent the arc ends thereof the same welding voltage, the current, as a result of such voltage, being effective to cause substantially instantaneous fusion of such end of any one of said electrodes whenever such end comes into contact with said work-piece and said electrodes being thus electrically connected in the welding circuit in parallel relation to each other.

2,654,016

ELECTRICALLY HEATED WINDSHIELD WIPER

William L. Martin, Gastonia, N. C., assignor of one-fourth to L. B. Hollowell, Gastonia, N. C.

Application August 19, 1952, Serial No. 305,263
4 Claims. (Cl. 219—19)



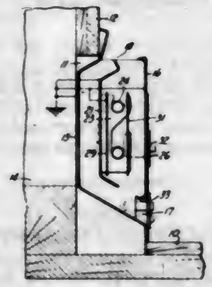
1. In a heated-type windshield wiper construction, in combination, a relatively stationary support including mechanical operating means, a wiper arm operatively mounted at its lower end on said means, blade means carried by the upper end of said arm and carrying an electrical heating element, a contact element carried by said arm, a current conducting connection between said contact element and heating element, a spring pressed brush in constant operating engagement with said contact element, a separate support fixture for said brush, said fixture being contiguous to said support, and a current supply conductor operatively joined with said brush, said contact element being in the form of a metal button mounted in an insulated grommet fitted in an aperture provided therefor in the lower end portion of said arm, said support fixture being channel-shaped in cross-section with its open side facing said contact element, said brush being mounted in a spring loaded socket member accessibly mounted in the channel of said fixture.

2,654,017

BASEBOARD HEATER CONSTRUCTION

William Wesley Hicks, San Francisco, Calif., assignor to Ionics, Inc., San Francisco, Calif., a corporation of California

Application February 5, 1951, Serial No. 209,435
2 Claims. (Cl. 219—34)



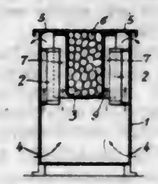
1. In an electric heater construction for discharging into a room air having substantially equal numbers of positively and negatively charged dust particles, the electric heater having a heating chamber containing a resistance heating element and into which chamber air to be heated is drawn through narrow passageways and from which chamber warm air is expelled through narrow passageways, means for shifting the balance of ion concentration of the air expelled from the heater to substantially equal positive and negative polarity comprising an electrode adjacent the heating element of said electric heater and positioned adjacent the opening from which warm air is expelled, and means for applying a constant negative charge to said electrode.

2,654,018

ELECTRICALLY HEATED STEAM-BATH STOVE

Nicolay Bugge Sandberg, Oslo, Norway

Application May 8, 1952, Serial No. 286,733
In Norway May 19, 1951
1 Claim. (Cl. 219—38)



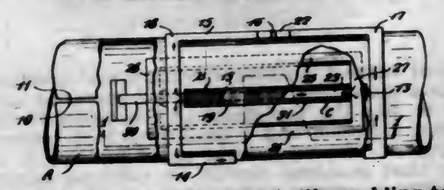
An air heating and steam producing stove comprising a vertically disposed casing having air inlet and outlet openings formed therein adjacent the bottom and top, respectively, of the casing, a centrally located heat accumulator for generating steam disposed in said casing and spaced from the walls of the latter so that air to be heated can flow upwardly through said casing around said accumulator from said inlet opening to said outlet opening, a circularly arranged series of vertically extending electric heating elements disposed between said accumulator and said walls of the casing for heating the air flowing through said casing by contact with the air and for heating said accumulator by radiation, said accumulator being formed with outwardly concave wall portions concentric with said heating elements, and radially directed ribs extending outwardly from said accumulator between successive ones of said heating elements to increase the surface of said accumulator for receiving heat by radiation from said heating elements and to prevent mutual radiation of heat between said heating elements.

2,654,019

HIGH-FREQUENCY INDUCTION-HEATING APPARATUS

Alfred C. Body, Cleveland, Ohio, assignor to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio

Application October 6, 1950, Serial No. 188,855
3 Claims. (Cl. 219—47)



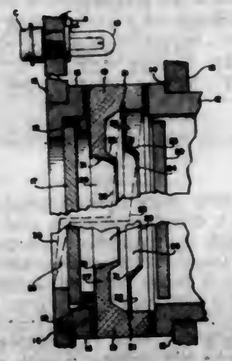
3. The method of heating to the welding temperature the opposed edges of a C-shaped metallic tube which comprises inducing from both sides of said edges currents to flow along said edges in the same direction and inducing from both sides of said tube currents to flow in the opposite direction remote from said edges, but with the currents induced on the outside of said tube being circumferentially spaced from the currents induced to flow on the inside of said tube.

2,654,020

INDIRECT INSTRUMENT ILLUMINATION

Kenneth F. Pittman, North Hollywood, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.

Application December 10, 1949, Serial No. 132,316
3 Claims. (Cl. 240—2.1)



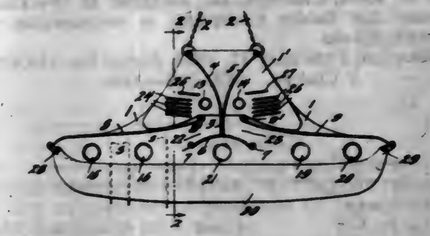
3. A light transmitting ring adapted to be interposed between the dial and the cover of an instrument, comprising a ring of light transmitting material having its periphery exposed to a source of light and its inner surface polished to emit light rays toward the dial, the cover side of said ring having an inwardly extending radial wall with a central aperture surrounded with a flange extending in the direction of the instrument dial, the visible portions of said radial wall and flange being rendered opaque.

2,654,021

FLUORESCENT LAMP ASSEMBLY

Orlo A. Bartholomew, Atlantic City, N. J.

Application April 17, 1950, Serial No. 156,287
5 Claims. (Cl. 240—51.11)



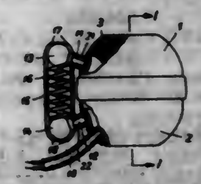
1. In a fluorescent lamp assembly, a fixture for supporting several types of fluorescent lamps, means for supporting a germicidal lamp in the upper part of the fixture, a reflector mounted in the fixture for directing the rays of said germicidal lamp in a focal plane substantially 10° above the horizontal; a fluorescent illuminating lamp located in a plane beneath the germicidal lamp and a fluorescent sun lamp also mounted in the lower part of the fixture; reflector means spaced from said first mentioned reflector to form passageways for the heat from the last mentioned lamps around the germicidal lamp and also shielding the direct rays from the germicidal lamp except when viewed from substantially the same horizontal plane as the fixture; vertically extending baffles located under the illuminating lamp and the sun lamp to limit the direct rays from the said last mentioned lamps to a certain field, so that the direct rays from said last mentioned lamps cannot be perceived by an observer unless he is within the said certain field.

2,654,022

MAGNETIC TROUBLE LAMP

Kurt Adamy and Werner Bätz, Oberrahmede, Germany, assignors to August Enders Aktiengesellschaft, Oberrahmede, Germany, a corporation under German laws

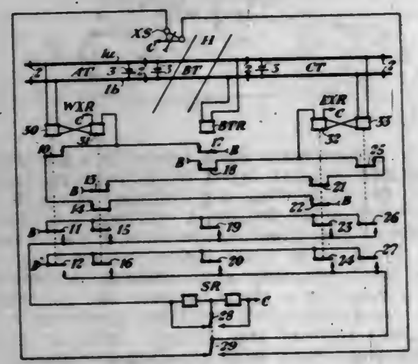
Application June 17, 1950, Serial No. 168,682
In Germany January 28, 1950
5 Claims. (Cl. 240—52.15)



1. A magnetic trouble lamp comprising two substantially cup-shaped cases, an electric lamp located within the first one of said cases, a magnet in said second case, for the attachment of the lamp to a base by magnetic attraction, said cases having interengageable rims, each case including a laterally projecting ball-headed stem, an elongated hollow member having inner part-spherical faces at both its ends in which said

ball heads, respectively, are swivelingly received, and a compression spring within said hollow member and bearing on both said ball heads so as to urge them against said faces, said cases having one end position in relation to each other in which said rims engage one another and said cases complement each other to an entirely closed hollow body.

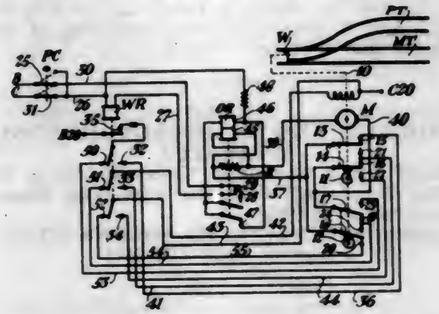
2,654,023
HIGHWAY CROSSING SIGNAL CONTROL SYSTEM
Otto W. Rost, Chicago, Ill., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application February 17, 1950, Serial No. 144,823
5 Claims. (Cl. 246—130)



1. In combination, a stretch of railway track intersected by a highway, a middle section including the crossing, a first and a second approach section located one on each side of the crossing, a signal for said intersection, a track relay, a track circuit including said track relay for said middle section, a first and a second interlocking relay, a first winding for said first interlocking relay controlled by the presence of a train on said first approach section, a second winding for said first interlocking relay jointly controlled by said track relay and by said second interlocking relay, a first winding for said second interlocking relay controlled by the presence of a train on said second approach section, a second winding for said second interlocking relay jointly controlled by said track relay and said first interlocking relay, and circuit means responsive to the operation of said interlocking relays and said track relay to control the operation of said signal.

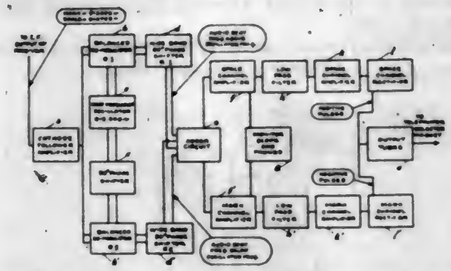
2,654,024
OPERATING AND SNUBBING CIRCUITS FOR DIRECT CURRENT MOTORS
Robert M. Gilson, Pittsburgh, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application February 28, 1948, Serial No. 11,974
5 Claims. (Cl. 246—242)

1. In combination with a series direct current motor operatively connected to a device and provided with a normal and a reverse operating circuit for reversibly moving said device in a normal and a reverse direction, a normal and a reverse snubbing circuit having connections to said motor, said reverse snubbing circuit tending when closed to maintain the energization of the motor effected by said reverse operating circuit, said normal snubbing circuit tending when closed to maintain the energization of the motor effected by said normal operating circuit, a circuit controller operatively connected to said device and including a normal and a reverse contact member each of which is operable to a first and a second position, said reverse contact member having a first position contact interposed in said reverse operating circuit to stop the movement of the device in its reverse direction and a second position contact interposed in said reverse snubbing circuit to close that snubbing circuit, said



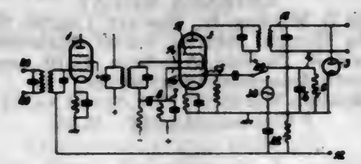
normal contact member having a first position contact interposed in said normal operating circuit to stop the movement of the device in its normal direction and a second position contact interposed in said normal snubbing circuit to close that snubbing circuit, an overload means including a resistor and a relay winding in multiple, and said overload means interposed in a connection common to said operating circuits and said snubbing circuits to check the magnitude of the current of said operating circuits and to provide a load element for said snubbing circuits.

2,654,025
FREQUENCY SHIFT TELEPRINTER
Charles A. Higgins, Boonton, N. J., assignor to Radio Frequency Laboratories, Inc., Boonton, N. J., a corporation of New Jersey
Application December 19, 1950, Serial No. 201,622
8 Claims. (Cl. 250—8)



1. A translating system for teleprinters of the type including a selector magnet and operated in accordance with alternately-transmitted radio wave pulses of two different frequencies, said system comprising a radio receiver including means converting the received radio pulses into corresponding pulses of intermediate frequency, a pair of balanced demodulators responsive to the intermediate frequency pulses, means establishing in the output of each balanced demodulator alternate audio frequency pulses corresponding to the received radio wave pulses, means shifting the phase of the audio frequency pulses in the output of one demodulator 90 degrees with respect to the similar output of the other demodulator, means providing two phase quadrature voltage components from each audio frequency pulse in the demodulator outputs, means combining the four quadrature voltage components into a resultant voltage pulse, means segregating the resultant voltage pulses into separate electrical channels on the basis of phase difference, means converting the resultant voltage pulses in each channel into direct current pulses, and control means for operating the selector magnet of the teleprinter, said control means being effective to cause operation of the selector magnet only in response to the direct current pulses in one of said electrical channels.

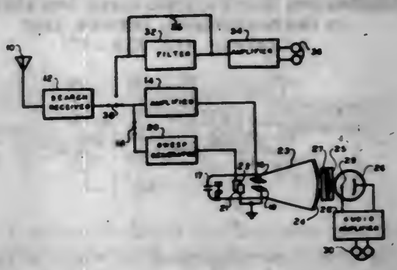
2,654,026
RADIO CIRCUIT ARRANGEMENT
Willem Wigger Beelens, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application October 22, 1949, Serial No. 122,951
In the Netherlands October 27, 1948
3 Claims. (Cl. 250—20)



1. In a receiver for a frequency modulated input wave exhibiting an unwanted amplitude modulation component, a system for amplifying said input wave while suppressing said unwanted component comprising an electron discharge tube having a cathode, two control grids and two additional electrodes, means to apply operating potentials to the respective electrodes of said tube, an input circuit coupled to one of said grids to apply said input wave thereto, an output circuit coupled to one of said additional electrodes to derive an amplified input wave therefrom, rectifier means coupled to said output circuit to extract from the amplified input wave an auxiliary oscillation corresponding to said unwanted component, means coupled to said rectifier means to apply said auxiliary oscillation to the other of said grids, means coupled to the other of said additional electrodes to derive an amplified auxiliary oscillation therefrom, and means to apply said amplified auxiliary oscillation to said one of said grids to produce intermodulation with the input wave, said operating potentials having relative values at which said intermodulation brings about substantial suppression of said unwanted component.

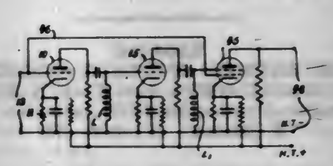
2,654,027
PULSE DEMODULATING SYSTEM
Elmer Baum, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application August 10, 1945, Serial No. 610,162
10 Claims. (Cl. 250—20)
(Granted under Title 35, U. S. Code (1952), sec. 266)

6. A demodulator for time modulated pulses comprising means for producing a beam of energy, a beam sensitive device, means for causing said beam to sweep through a cyclic movement, the path of which bears a given relationship with respect to the location of said device, means for causing said beam to coincide with said device in response to at least certain of said pulses, and a



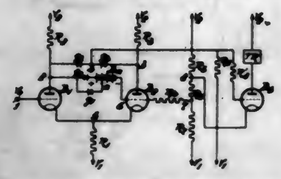
circuit associated with said device for conducting a flow of current in response to coincidence of said beam and said device.

2,654,028
PULSE GENERATING AND SELECTING APPARATUS
Maurice Moise Levy, Earls Court, England, assignor to The General Electric Company, Limited, London, England
Application October 21, 1948, Serial No. 55,731
In Great Britain July 31, 1946
3 Claims. (Cl. 250—27)



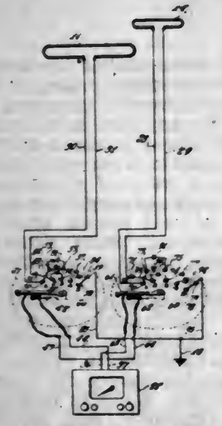
1. A circuit arrangement for separating pulses of longer duration from pulses of shorter duration, said arrangement comprising a tuned circuit, means for applying said pulses of longer and shorter duration to shock-excite said tuned circuit and generate from each pulse of long or short duration a wave of shock-excitation, said waves having peaks of amplitude depending upon the duration of said pulses, amplitude-limiting means for selecting peaks generated by said pulses of longer duration, a gating device having an input terminal, an output terminal, a control voltage terminal and an electrically controllable variable coupling interconnecting the input and output terminals, said coupling being variable between a condition in which it passes a signal without mutilation of its waveform and a condition in which it blocks passage of a signal between said terminals, said coupling normally being in its second condition, means connecting the control voltage terminal to the coupling for control of said coupling, means for applying said pulses of longer and shorter duration to said input terminal, and means for applying said peaks to said control voltage terminal to change the coupling from its second to its first condition and thereby permit the transmission of only said pulses of longer duration to said output terminal.

2,654,029
ELECTRON TUBE CIRCUIT
Robert Bertold Buchner, Hilversum, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application May 23, 1950, Serial No. 163,615
In the Netherlands June 14, 1949
4 Claims. (Cl. 250—27)



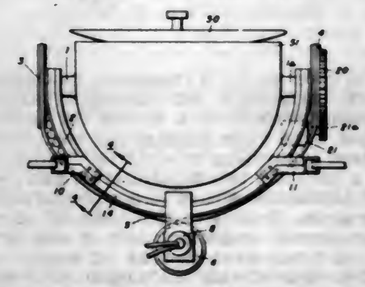
1. A circuit-arrangement in which a control-voltage is supplied to a control-electrode of a first discharge tube having an output circuit coupled aperiodically to a control-electrode of a second discharge tube an output circuit of the second tube being coupled aperiodically to an input circuit of the first tube such that positive feedback occurs, the coupling circuit between the output circuit of the first tube and the control-electrode of the second tube comprising a parallel-combination of two branches, each of which comprises a rectifier, the rectifiers being conductive in opposite senses and having different biassing voltages such that the first rectifier is conductive when the control-voltage exceeds a definite first limiting value and the second rectifier is conductive when the control-voltage is lower than a definite second limiting value lower than the first limiting value, the feed-back factor being substantially unity if one of the rectifiers and both tubes are conductive.

2,654,030
TELEVISION ANTENNA SYSTEM
Henri Cuvillier, New York, N. Y.
Application October 10, 1950, Serial No. 189,346
2 Claims. (Cl. 250—33)



1. A system for the transmission of radio frequency energy comprising: a device for utilizing said energy; an antenna including first and second antenna elements; first and second attenuation means; a ground element; and means to selectively connect said antenna element and the ground element to said device in a plurality of circuit arrangements including a first connection in which the first antenna element is connected to the device in a first polarity; a second connection in which the first antenna element is connected to the device in inverse polarity with respect to said first polarity; a third connection in which the first attenuation means is disposed in circuit between the first antenna element and said device; a fourth connection in which the first antenna element is disconnected from said device; a fifth connection in which the second antenna element is connected to the device in a certain polarity; a sixth connection in which the second antenna element is connected to said device in a reverse polarity with respect to said certain polarity; a seventh connection in which the second attenuation means is disposed in circuit between the second antenna element and said device; an eighth connection in which the second antenna element is disconnected from said device; a ninth connection in which said device is connected to said ground element; and means for simultaneously forming any of said first five mentioned connections with any one of said last mentioned four connections with said device.

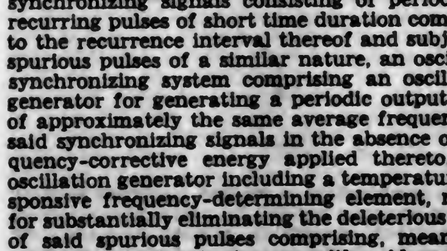
2,654,031
ANTENNA MOUNT
William D. Mullins, Jr., Downey, Charles K. West, Santa Monica, John M. Slater, Inglewood, and Gerald S. Perkins, Altadena, Calif., assignors to North American Aviation, Inc.
Application March 27, 1950, Serial No. 152,026
9 Claims. (Cl. 250—33.65)



2. Antenna mounting means comprising a cylindrical drum, an axle rotatably supported by said drum along a diameter of said cylinder, a plurality of rollers externally supported near the ends of said cylindrical drum, tracks on the ends of said drum adapted to support it for sliding on said rollers, a pulley on each end of said axle mounted outside said drum, a reversing gear train connecting one of said pulleys to said axle, two windlasses with their cylindrical axes parallel to that of said drum, mounted behind and near the edges of said drum, a continuous cable wound around said pulleys and each of said windlasses, and means for turning said windlasses together or in opposite directions with controllable speed to thereby control the azimuth and elevation of any device supported by said axle.

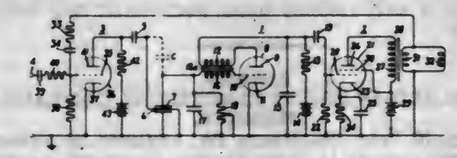
2,654,032
AUTOMATIC FREQUENCY CONTROL SYSTEM
Leo Staschover, New York, N. Y., and Heyward A. French, Belleville, N. J., assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application September 23, 1948, Serial No. 50,714
6 Claims. (Cl. 250—36)

1. In an automatic frequency control system for an oscillation generator having a frequency controlling means, the combination of a frequency discriminator, a periodic voltage source, means connected to said source for amplitude modulating oscillations derived from the generator with said periodic voltage and applying the modulated oscillations to said discriminator, a phase-amplitude detecting means coupled to



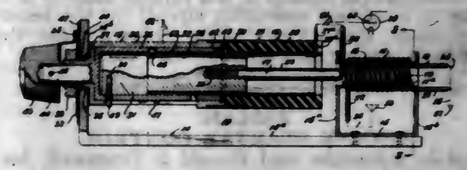
said source of periodic voltage and to the output of said discriminator for deriving a control voltage having a polarity determined by the phase of the output voltage of said discriminator relative to said periodic voltage, and means for applying said control voltage to the frequency controlling means of the oscillation generator.

2,654,033
SYNCHRONIZING CIRCUIT
Robert B. Dome, Onondaga, N. Y., assignor to General Electric Company, a corporation of New York
Application December 24, 1948, Serial No. 67,142
8 Claims. (Cl. 250—36)



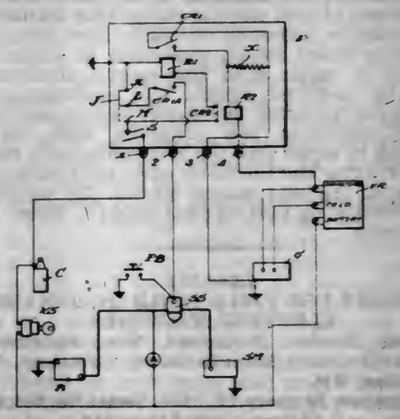
1. In a television receiver adapted to receive synchronizing signals consisting of periodically recurring pulses of short time duration compared to the recurrence interval thereof and subject to spurious pulses of a similar nature, an oscillator synchronizing system comprising an oscillation generator for generating a periodic output wave of approximately the same average frequency as said synchronizing signals in the absence of frequency-corrective energy applied thereto, said oscillation generator including a temperature-responsive frequency-determining element, means for substantially eliminating the deleterious effect of said spurious pulses comprising, means for comparing said output wave with said synchronizing signals and deriving therefrom a periodic wave dependent in waveform upon the phase difference between said synchronizing signals and said output wave, means for producing changes in the temperature of said frequency-determining element as a function of changes in the waveform of said derived wave, said temperature changes being in a sense to vary the instantaneous frequency of said oscillation generator in the proper direction substantially to maintain the output wave of said generator in phase with said synchronizing signals.

2,654,034
CIRCUIT TUNING DEVICE
George E. Morton, North Royalton, Ohio, assignor to Designers For Industry, Inc., Cleveland, Ohio, a corporation of Ohio
Application May 31, 1951, Serial No. 229,067
3 Claims. (Cl. 250—40)



1. In a tuning device of the character described, a capacitance element, inductance coil means in adjacent substantially aligned relation to said capacitance element, a pair of nested inner and outer sleeves located in adjacent substantially aligned relation to said capacitance element and inductance coil means and one of said sleeves being rotatable relative to the other sleeve, one of said sleeves having an axial slot in the wall thereof and the other having a helical slot in the wall thereof extending in crossing relation to said axial slot, a carrier member slidably supported by said nested sleeves for movement in an axial direction, core means connected with said carrier member for movement thereby into the magnetic field of said inductance coil means, a second capacitance element connected with said carrier member for movement thereby into a capacitance relation to the first-mentioned capacitance element, and follower means connected with said carrier member and engaging in both slots substantially at their point of crossing relation.

2,654,035
AUTOMATIC STARTING APPARATUS FOR INTERNAL-COMBUSTION ENGINES
William G. Rowell, Wollaston, Mass., assignor of forty-five per cent to Munroe H. Hamilton, Lexington, Mass.
Application May 4, 1951, Serial No. 224,488
3 Claims. (Cl. 290—37)



1. An apparatus of the class described comprising an internal combustion engine, an electrical starting motor for cranking said internal combustion engine, electrical means for energizing the starting motor, a generator adapted to be driven by the engine to produce an electrical voltage, said electrical means including a solenoid switch, a cranking relay for actuating the

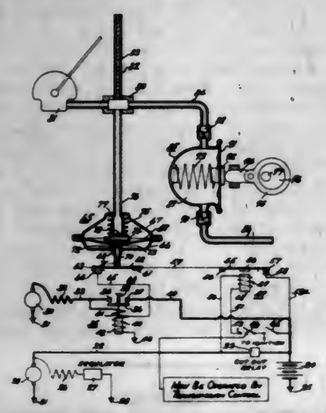
starting motor by means of the solenoid switch, and a sensitive holding relay for controlling the cranking relay, said holding relay being responsive to the low range operating voltage of the generator developed when the engine is at idling speed, said apparatus being mounted in a vehicle body and the said electrical means being constructed and arranged in the vehicle body to provide an electrical operating circuit for the sensitive relay, said circuit being isolated from the common engine and body ground connections.

2,654,036

ENGINE STARTER CONTROL

Paul L. Schneider and Harold J. Cromwell, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application May 17, 1951, Serial No. 226,772
2 Claims. (Cl. 290—38)



1. In an engine starting system including a starting motor and controls therefor, the combination comprising three independent electrical circuits, each being separably connectible to a common source, the first of said circuits, including the starting motor, and an electromagnetically operated normally open switch therefor; the second of said circuits comprising an electromagnetically operated normally open switch, a normally closed switch responsive to engine operation in series with the second electromagnetically operated switch, and electromagnetic means for operating the starter switch, said third circuit including two normally open control switches in series with the electromagnetic means for operating the normally open electromagnetic switch in the said second circuit, the sequences of operation of said circuits being a three, two, one, order.

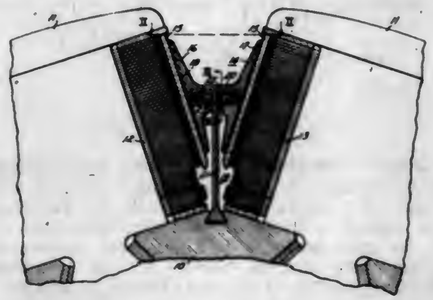
2,654,037

SUPPORT FOR FIELD COILS OF DYNAMO-ELECTRIC MACHINES

Mathias Henter, Brookfield, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

Application January 17, 1951, Serial No. 206,447
6 Claims. (Cl. 310—194)

6. In a dynamoelectric machine, a rotatable member comprising two adjacent radially disposed polar projections, each said polar projection having a field coil disposed thereon, each said field coil comprising a radially outer portion and a radially inner portion, and a coil clamp disposed between said coils, said clamp comprising a retainer and a pair of separate plates, said plates having diverging outer faces abutting the adjacent diverging sides of only the radially outer portions of said coils and having adjacent parallel faces and outer surfaces, said retainer comprising a head portion, a foot portion and a relatively narrow shank joining said head and foot portions, said rotatable member having a slot extending under said field coils intermediate said polar projections, said foot portion of said retainer disposed in said slot and secured to said rotatable member, said shank extending radially and axially between said inner portions of said field coils and said plates to provide axial ventilating ducts between said inner portions of said field coils, said shank, and said rotatable member, said head portion extending radially between said adjacent parallel faces of said plates, and means cooperating with said head portion of said retainer and said radially outer surfaces of said plates to force said plates only radially inward to cause said adjacent parallel faces of said plates to abut said retainer and said diverging outer faces of said plates to rigidly brace the adjacent diverging sides of said radially outer portions of said field coils.

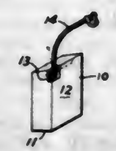


2,654,038

MOLDED-IN SHUNT ELECTRICAL CONTACT MEMBER

Hugh N. Veley, St. Marys, Pa., assignor, by mesne assignments, to Speer Carbon Company, a corporation of New York

Application November 25, 1950, Serial No. 197,581
5 Claims. (Cl. 310—249)



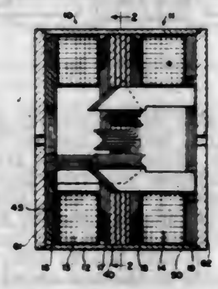
1. In combination, a molded electrical contact member having a molded-in electrical conductor, said member comprising a body composed of resin-bonded finely divided electrically conductive material comprising a carbonaceous material, said member having a working face and an adjoining face substantially perpendicular thereto, the layering of said carbonaceous material being substantially parallel to said adjoining face due to the application of pressure perpendicular to said adjoining face during the molding of said member, said adjoining face having a recess extending to and laterally open at an edge of said contact member at a location appropriately remote from said working face, said electrical conductor having a terminal portion embedded in said contact member with said finely divided material molded about said conductor, the latter emerging from a wall of said recess and said recess being arranged to accommodate the emerging conductor to permit it to extend laterally out beyond the edge of said contact member.

2,654,039

ELECTRIC MOTOR LAMINATED STATOR CONSTRUCTION

Joseph T. Abdo, Robbinsdale, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application February 21, 1952, Serial No. 272,829
12 Claims. (Cl. 310—258)



1. In an alternating current motor, a cylindrical frame member of magnetic material, a stator member positioned within said cylindrical frame member and comprised of an annular energizing winding with an aperture therethrough and a pair of pole piece structures positioned respectively to either end of said annular energizing winding in intimate magnetic association therewith and contacting said cylindrical frame member, each of said pole piece structures of said stator member being formed of a plurality of identically shaped flat laminations having a yoke portion and a pair of pole piece portions extending transversely thereto, said laminations of each pole piece structure being assembled in a plurality of pairs such that the yoke portions of each pair of laminations lie in substantially the same plane and engaging the periphery of the cylindrical frame member and with the pole piece portions disposed in a parallel relationship adjacent one another to form a plurality of poles common to one end of said winding and extending in the same direction to one side of said winding being interposed equi-distantly between poles formed by the pole portions of the laminations of the pole piece structure common to the opposite end surface of said winding, a slotted support member of non-magnetic material positioned within said cylindrical frame and adjacent one end of said winding receiving the poles formed by said pole piece portions of the laminations of said pole piece structures to position the same with a cylindrical opening between said poles, and means for supporting an inductor element within said cylindrical opening.

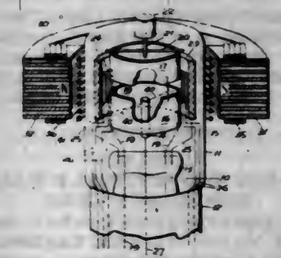
5. A laminated magnetic field element which comprises a plurality of thin flat laminations of magnetic material, each lamination having a yoke portion and pole piece portions at the extremities thereof bent normal thereto, a magnetic frame member housing said laminations, said laminations being assembled in groups in which the individual laminations for each group are substantially identical to one another and are nested one beside the other with more than one group forming a yoke from which a plurality of poles extend normal thereto and each pole being formed from the pole piece portions at one extremity of each of two groups of laminations, an energizing coil for said field element positioned between two yokes formed by groups of laminations, said laminations of said yokes being so positioned that the poles thereon terminate to one side of one yoke remote from said coil in defining a cylindrical opening therebetween, and a slotted non-magnetic support member having a cylindrical opening therein coinciding with said opening defined by said poles and encircling said poles with said slots receiving said poles for positioning the same.

2,654,040

COMMUTATOR TUBE DEVICE

Laurence Batchelder, Cambridge, Mass., assignor to Raytheon Manufacturing Company, a corporation of Delaware

Application November 21, 1947, Serial No. 787,441
16 Claims. (Cl. 313—69)



1. An electronic commutator tube device comprising a source of electrons, an accelerating anode surrounding said source and having one endless edge defining a plane to one side of which said source is wholly disposed, means positioned near said source for forming the electrons from said source into a pair of oppositely directed beams substantially normal to said anode, means positioned near the path of said beams for directing one beam over an edge of the anode and the other beam to the anode, and means positioned near said source and including said beam-forming means for sweeping said one beam along said edge.

2,654,041

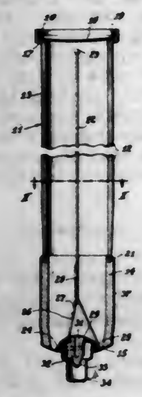
RADIATION COUNTER

William H. McCurdy, Caldwell, John H. Findlay, Upper Montclair, and Leo C. Werner, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 1, 1950, Serial No. 165,554
3 Claims. (Cl. 313—93)

1. In a radiation counter, in combination, a hollow cylindrical thin metal cathode member having one end formed with an outwardly expanded cylindrical flange of a larger diameter than that of, and resulting in an annular ledge at the junction with, the main body of said member, a mica window member engaging said ledge, surrounded by said flange and sealed thereto, a hollow cylindrical insulator member extending from the other end of said cathode member, a metal cap with its peripheral edge sealed to and closing the free end of said insulator member, said cap having a knob-like inner protuberance, and an anode member formed as a rod with its major portion extending axially of said cathode member and carrying a split ring which resiliently engages over said protuberance, said ring

being connected directly to an end portion of said rod bent at an angle to the axially extending portion, and rods extending diagonally from



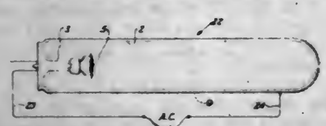
points on said ring spaced about 120° from the point of connection of the anode member rod and with their ends respectively connected to said ring and said anode member rod adjacent said bend for bracing the connection to the ring.

2,654,042

INTEGRALLY CAPACITIVELY BALLASTED DISCHARGE LAMP

Maurice G. Clarke, Church Lawford, and Herbert L. Privett, Rugby, Warwick, England, assignors to General Electric Company, a corporation of New York

Application July 12, 1950, Serial No. 173,326
In Great Britain July 29, 1949
8 Claims. (Cl. 313—109)



1. A self-ballasting construction for an electric discharge device wherein the discharge proper has a negative volt-ampere characteristic, comprising an envelope filled with an ionizable medium and defining a discharge space, at least one lead wire sealed through said envelope and supporting therein a thermionic activated electrode, and a series ballasting capacitance constructed integrally with said device and comprising a conductive coating on the wall of said envelope and surrounding substantially the whole of said discharge space, a dielectric material separating said coating from said medium, said lead and said conductive coating serving respectively as terminals for said device whereat a resultant positive volt-ampere characteristic is presented.

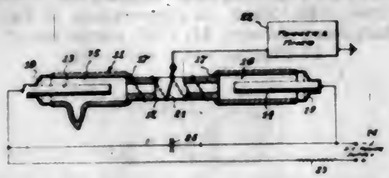
2,654,043

DISCHARGE LAMP, METHOD OF OPERATING, AND METHOD OF MAKING

George A. Freeman, East Orange, and Carl G. Anderson, Jr., Packanack Lake, N. J., assignors to Westinghouse Electric Corporation, Pittsburgh, Pa., a corporation of Pennsylvania

Application February 27, 1948, Serial No. 11,714
7 Claims. (Cl. 313—185)

1. The method of making a discharge device comprising forming end chamber portions as graded seals, forming a pair of solid cylindrical metal electrodes, chamfering an end of each electrode for fitting in an end cup, fitting the chamfered end of each electrode into a cup of "Kovar" and spot welding it thereto, placing rings of brazing wire over each electrode, heating each electrode and associated cup in humid hydrogen at a temperature of about 1010° C. for about 20 minutes to braze each electrode to its cup, glassing the free edge of the cup of each electrode assembly, holding one of said graded seals with a protective ring of asbestos ribbon around its end in a lathe head chuck and a quartz intermediate portion tube with one end plugged with asbestos in the



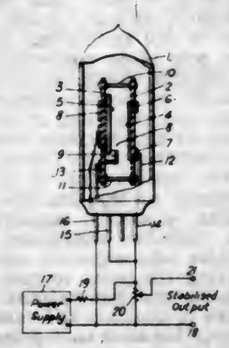
tail chuck of said lathe, sealing the adjacent ends of the parts, using a special flux glass on the quartz tube, disengaging the tail chuck and removing the asbestos plug from the quartz tube, plugging a second graded seal and holding it with a protective ring of asbestos ribbon in the tail chuck, making a second seal between it and the other end of said quartz tube, placing an electrode assembly in the tail chuck and sealing it to a graded seal, care being taken to avoid oxidation of the electrode, removing the assembly, turning it around and holding it in the head chuck, placing the other electrode assembly in the tail chuck, and sealing it to the other graded seal.

2,654,044

ELECTRIC DISCHARGE TUBE

George Hubert Hough and Thomas Meirion Jackson, London, England, assignors to International Standard Electric Corporation, New York, N. Y.

Application December 8, 1951, Serial No. 260,741
In Great Britain December 22, 1950
3 Claims. (Cl. 313—197)



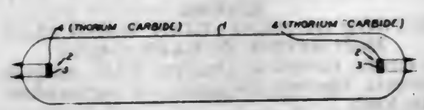
1. A D. C. voltage stabiliser arrangement comprising a pair of extended electrodes enclosed within a gas filled envelope and defining a cold cathode glow discharge gap between substantially parallel surfaces and an auxiliary electrode connected to the anode electrode of the said gap projecting into the said gap parallel to the cathode electrode and at a distance therefrom substantially equal to the length of the cathode fall of potential for discharge between the said cathode and the main anode, the discharge surfaces of all the said electrodes being of clean metal, the discharge current-voltage characteristics of the said auxiliary gap being such that it serves as a starting gap for the discharge at the main gap and during consequent operation stabilises the position of the cathode glow.

2,654,045

THERMIONIC CATHODE FOR ELECTRIC DISCHARGE DEVICES

Donald Arthur Wright, Harrow, England, assignor to General Electric Company, a corporation of New York

Application January 8, 1952, Serial No. 265,428
In Great Britain January 15, 1951
1 Claim. (Cl. 313—346)



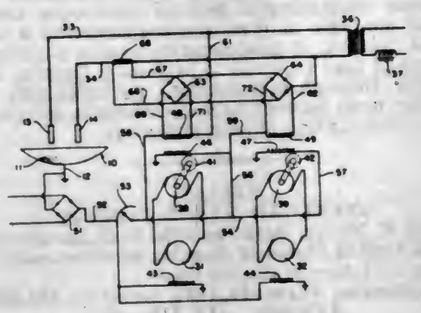
An electric discharge device comprising thermionic cathodes including electron-emissive material, consisting mainly of thorium carbide, carried on a tantalum support having on the surface in contact with the thorium carbide material a protective coating composed of a member of the group consisting of tungsten, tungsten carbide and tantalum carbide.

2,654,046

APPARATUS FOR AUTOMATICALLY REGULATING SINGLE PHASE ELECTRIC FURNACE ELECTRODES AND THE LIKE

Charles W. Vokac, Cicero, Ill., assignor to Whiting Corporation, a corporation of Illinois

Application October 19, 1951, Serial No. 252,131
9 Claims. (Cl. 314—52)



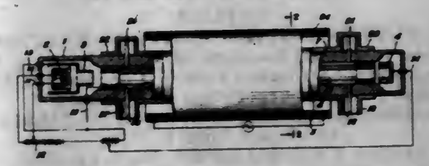
1. In an electric arc furnace of the type having a hearth adapted for containing a conductive charge and means for grounding the charge, a pair of spaced electrodes above the charge, reversible electrode motors for driving the electrodes towards and away from the charge and conductors for supplying single phase alternating current to the electrodes, an improved electrode control apparatus which comprises a generator for driving each of the electrode motors, each of said generators having a grounded first winding for generating current for driving the corresponding electrode motor in an electrode-lowering direction and each having a second winding opposing the first winding for driving the corresponding electrode motor in an electrode-raising direction, a grounded source of substantially constant direct current, wires connecting said source to the first and second windings, wires connecting each of said second windings to its corresponding electrode, and means for supplementing the flow of current through each of the second windings, said means being variable directly with the current flowing between the electrodes.

2,654,047

BEAM TRAVELING WAVE AMPLIFIER TUBE

André Gabriel Clavier, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application January 20, 1948, Serial No. 3,325
17 Claims. (Cl. 315—3)



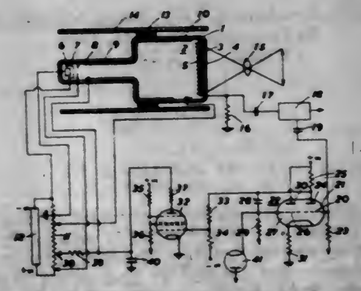
1. A travelling wave amplifier tube comprising an electron gun and a collector electrode defining a beam path therebetween, a transmission line including two conductors arranged adjacent to and along said beam path for propagating an electromagnetic wave along said beam path in the direction from said gun to said collector electrode, the space between said conductors being separated from said beam path by one of said conductors, said one conductor being subdivided and disposed closely adjacent said beam path to provide large mutual inductive coupling between the electromagnetic wave and the electron beam, means coupled to said transmission line towards the end adjacent said gun for directly applying the electromagnetic wave to said line and means coupled to said line at the other end for removing the electromagnetic wave, said transmission line including means for causing the wave to propagate more slowly than electrons in said beam.

2,654,048

CIRCUITS EMBODYING CATHODE POTENTIAL STABILIZED ELECTRON DISCHARGE DEVICES

James Dwyer McGee, Ealing, London, Eric Lawrence Casling White, Iver, Hans Gerhard Lubszynski, Northwood, Reginald Sidney Webley, Hayes, and Keith Gordon Huntley, Harlington, Hayes, England, assignors to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain

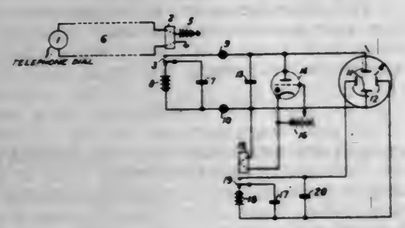
Application May 23, 1950, Serial No. 163,642
In Great Britain June 3, 1949
5 Claims. (Cl. 315—11)



1. A circuit arrangement embodying a cathode potential stabilized pick-up tube having a signal output electrode and a target electrode with said

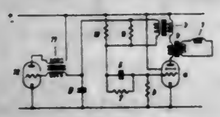
tube rendered unstable under the influence of excessive electron emission due to abnormal changes in illumination, whereby signals developed in said output electrode contain signal excursions exceeding a predetermined desired level, said tube having a further electrode disposed in a position near said target electrode to control electron emission therefrom, and means coupled to said output electrode responsive to signal excursions exceeding said predetermined level to apply a potential to said further electrode for a predetermined time to reduce electron emission from said target electrode.

2,654,049
ELECTRON SWITCH CONTROL SYSTEM
Trevor H. Clark, Boonton, N. J., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application April 30, 1947, Serial No. 745,013
In France April 7, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires April 7, 1959
9 Claims. (Cl. 315—21)



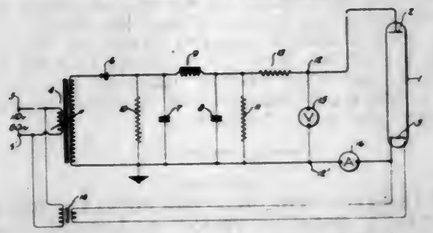
5. Apparatus for receiving a group of impulses and for producing and storing a representation of the number of impulses in the group comprising an impulse receiving circuit, a cathode ray device having two co-ordinate deflecting circuits, means for translating a predetermined succession of said impulses into a first deflecting voltage, means for applying said first deflecting voltage to one of said deflecting circuits, means included in said first translating means for translating individual impulses within said predetermined succession of impulses into a second deflecting voltage, and means for applying said second deflecting voltage to the other of said deflecting circuits.

2,654,050
SAW-TOOTH WAVE GENERATOR
Wolfgang Reinhard, Pforzheim, Germany, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application June 6, 1951, Serial No. 230,098
In Germany June 24, 1950
1 Claim. (Cl. 315—27)



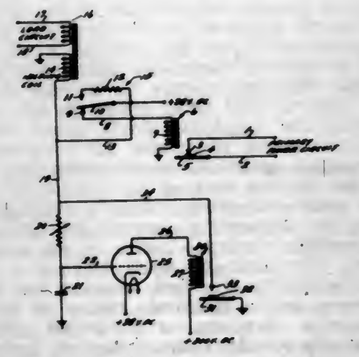
A generator of sawtooth current waves comprising means for generating a sawtooth voltage, said means including a charging circuit having a resistor and condenser connected in series, an electron tube having a control grid, cathode and anode, an input circuit connecting said control grid and cathode across said condenser, an output transformer and an inverse feedback transformer having primary windings connected in series in the anode circuit of said tube, a cathode ray tube deflection coil connected across the secondary winding of said output transformer, the secondary winding of said inverse feedback transformer being connected in said input circuit and in series with said resistor and condenser of said charging circuit, a resistor connected in parallel with said last named winding and forming therewith a circuit having a time constant substantially equal to the time constant of the circuit formed by the deflection coil and the secondary winding of the output transformer.

2,654,051
METHOD OF MEASURING MOLECULAR IMPURITIES IN RARE GASES
Carl Kenty, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application January 20, 1950, Serial No. 139,774
7 Claims. (Cl. 324—24)



1. The method of measuring the concentration of a gaseous molecular impurity in a mixture of an inert gas with said impurity, which comprises the steps of introducing a sample of said mixture at a low pressure into an evacuated envelope containing a pair of electrodes and a small quantity of mercury, transmitting a constant current, of predetermined value slightly in excess of that required to produce a flashing discharge, through said sample, and measuring the voltage drop between said electrodes to determine the concentration of said impurity.

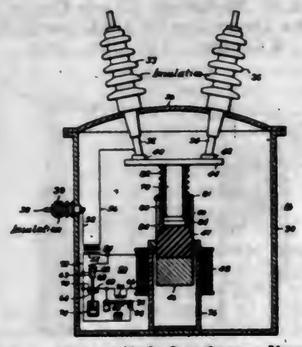
2,654,052
OVERLOAD RESET CIRCUIT
Harry F. Mayer, Baldwinsville, N. Y., assignor to the United States of America as represented by the Secretary of the Air Force
Application August 27, 1951, Serial No. 243,897
3 Claims. (Cl. 317—22)



1. A protective arrangement for a power circuit comprising a fault-responsive relay having

a first set of contacts, means responsive to the closing of the first set of contacts for closing said power circuit, a second set of contacts closed when said first set of contacts is open, means responsive to a fault condition in said power circuit for causing said first set of contacts to open and said second set of contacts to close, a holding coil means responsive to the closing of said second set of contacts for holding said first set of contacts open and said second set of contacts closed and means energized in response to closing of said second set of contacts for de-energizing said holding coil means after a predetermined time delay, whereby said second set of contacts will then be opened and said first set of contacts will then be closed.

2,654,053
AUTOMATIC SWITCH
James M. Wallace and Andrew W. Edwards, East McKeesport, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 19, 1948, Serial No. 60,862
17 Claims. (Cl. 317—23)

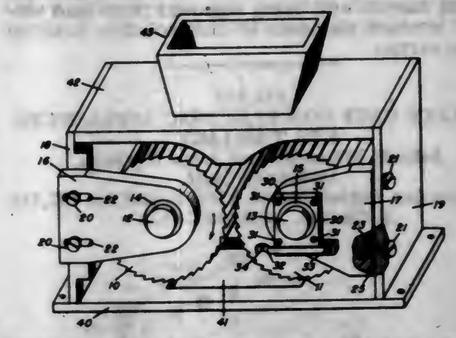


1. An automatic switch having a line terminal and a load terminal for connection to adjacent load sections of a distribution circuit having a protective device to successively automatically open and reclose the circuit a predetermined number of times and to thereafter remain open upon the persistence of an overload condition; said switch including means for opening the latter only a predetermined time interval after disappearance of voltage and current on said terminals which interval of time is greater than that between any of the aforesaid successive circuit opening and reclosing operations of said protective device, whereby said switch will open only after final opening of the circuit by said protective device, and means for closing said switch a predetermined time interval after appearance of voltage on said line terminal so as to be adapted to connect the load section remote from the protective device to the circuit a predetermined time interval after closing of said protective device and after removal of the overload condition.

2,654,054
MOISTURE TESTING APPARATUS
Oliver James Morelock, Short Hills, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application January 13, 1951, Serial No. 205,896
8 Claims. (Cl. 317—65)

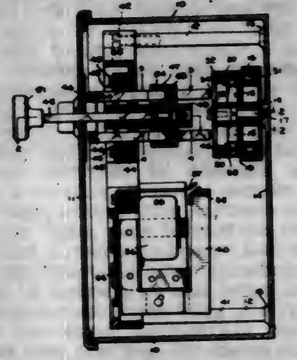
1. In moisture testing apparatus of the type comprising a pair of spaced rolls for establishing electrical contact with nuts passing therebetween,

the improvement comprising discreet, longitudinally-extending, circumferentially-spaced, pointed teeth formed in the surface of each roll, the individual teeth in each roll having a triangular



cross section defined by a relatively shallow wall extending radially of the roll and a relatively long wall extending peripherally of the roll, and the teeth of each roll being reversely disposed relative to each other in the space between the rolls.

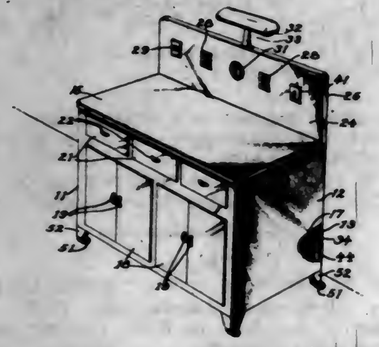
2,654,055
LOW TENSION ELECTRIC SWITCHGEAR
George Kilminster, Birmingham, England, assignor of one-half to EGA Electric Limited, Wednesbury, England
Application December 29, 1948, Serial No. 67,819
In Great Britain January 7, 1948
4 Claims. (Cl. 317—112)



1. In a low tension electric switch of the kind in which a contactor assembly carried upon a supporting member detachably secured within the case forms the normal make and break means of the switch but is capable of isolation from terminals on the switch; the provision of means for effecting isolation and establishing electrical continuity between said contactor assembly and said terminals, comprising primary contact elements fixed within said case and connected electrically to said terminals, secondary contact elements on said supporting member, which elements are connected electrically to said contactor assembly, and a carrier of insulating material interposed between said primary contact elements and said secondary contact elements and having fixedly mounted therein a set of conductor members, means separate from said conductor members for guiding and supporting said carrier for movement between operative and isolating positions, said means including a member projecting through said supporting member and

extending externally of said case to enable said carrier to be moved by manual operation of said member, and said conductor elements coacting with said primary and secondary contact elements to bridge same in the operative position of said carrier and being removed from said primary contact elements in the isolating position of the carrier.

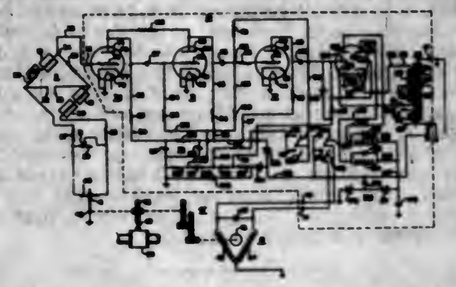
2,654,056
UTILITY UNIT FOR ELECTRIC APPLIANCES AND THE LIKE
John E. Milander and John W. Gaba, Oakland, Calif.
Application September 30, 1950, Serial No. 187,744
3 Claims. (Cl. 317—112)



1. A utility unit comprising a first housing including front, side, rear, bottom and top wall surfaces cooperating to define a substantially enclosed first chamber, a panel member in said first chamber and spaced from and cooperating with said rear wall surface to define a second chamber of a width substantially less than the spacing between said panel member and said front wall, a second housing defining a third chamber immediately over and in communication with said second chamber, means on said second housing adjacent said top wall surface defining a plurality of electrical sockets arranged to receive terminal plugs of a conductor member, an electrical distribution panel mounted on the rear surface of said panel member and disposed in said second chamber, a main current carrying conductor operatively connected to said distribution panel and to a source of electricity, current carrying conductors operatively inserted between said distribution panel and said connectors, and means on said rear wall surface for obtaining access to said distribution panel.

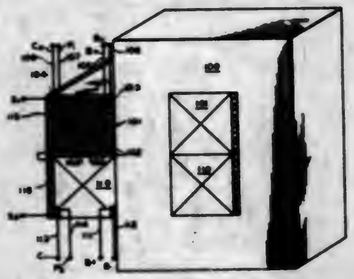
2,654,057
ELECTRONIC AMPLIFYING APPARATUS
Douglas W. Rivenburg, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application August 21, 1950, Serial No. 180,662
6 Claims. (Cl. 317—137)

6. An electronic control device comprising in combination: a discriminator stage having two anodes, two control electrodes, and two cathodes; a source of signal potential; circuit means for connecting said source to said two control electrodes; a source of irreversible unidirectional potential; a plurality of relays one or the other of which it is desired to actuate depending on the phase of said signal potential; circuit means connecting said source of unidirectional potential to said two anodes through said relays; a source of alternating bias voltage; circuit means connecting said two cathodes to said source of biasing voltage for biasing said discriminator stage to insure only one of said anode circuits conducts



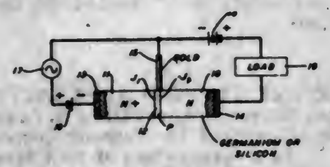
for a given phase of signal voltage; and means operable upon either of said relays being energized to change the potential applied to said control electrodes to tend to de-energize said relay.

2,654,058
WIDE BAND TRANSFORMER
Frank H. McIntosh, Chevy Chase, Md.
Application December 22, 1948, Serial No. 66,744
6 Claims. (Cl. 317—220)



2. An audio transformer for transferring a band of signals over the spectrum 20–20,000 cycles with less than 1% distortion, comprising, a core of magnetic material, a first pair of bi-filarly wound windings linking with said core about one portion thereof, and wound in one winding sense, a second pair of bi-filarly wound windings linking with said core about a further portion thereof, and wound in an opposite sense and a secondary winding linking said core.

2,654,059
SEMICONDUCTOR SIGNAL TRANSLATING DEVICE
William Shockley, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 26, 1951, Serial No. 228,483
12 Claims. (Cl. 317—235)



1. A signal translating device comprising a body of semiconductive material having therein a pair of zones of opposite conductivity type meeting at a junction extending inwardly from one face of the body, a first connection to the body, and a second connection to said body at said face and physically straddling said junction, said second connection comprising a conductor bonded to said body and defining a substantially ohmic joint with one of said zones and a rectifying junction with the other of said zones.

2,654,060
CAPACITY TYPE STRAIN GAUGE AND METHOD OF MANUFACTURE
John R. Stovall, Jr., Doylestown, and Irving Weintraub, Neshaminy, Pa., assignors to Tinius Olsen Testing Machine Company, Willow Grove, Pa., a corporation of Pennsylvania
Application January 20, 1950, Serial No. 139,563
9 Claims. (Cl. 317—246)

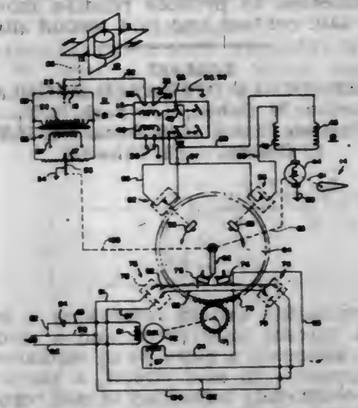


4. For use with a machine having mechanism for developing strain in an article to be tested, a capacitance type strain gage in the form of a thin, flat strip adapted to be bonded to the test article whereby to elongate in accordance with the strain in said article, said gage comprising a plurality of capacitors electrically connected in parallel, a flat flexible sheet of insulating material having adhesive means mounting the capacitors on the sheet and further having means to bond the gage to the test specimen, each said capacitor having conducting plate elements mounted in face-to-face relationship and the plates of each capacitor separated from one another by generally flexible dielectric material and oriented in a position generally perpendicular to said flat strip, the plates being of substantially greater dimension in a direction generally perpendicular to said strip than in a direction generally parallel the plane of the strip.

9. A method for making a capacitive type strain gage comprising: winding strips of metal and dielectric layer upon layer on a mandrel, alternate strips being offset from one another in a direction taken generally parallel to the axis of the mandrel; separating the layers into individual stacks by making a plurality of cuts in planes containing the axis of the mandrel; laminating a stack by applying heat and pressure sufficient to cause the dielectric material to infill the space occurring between edges of alternate strips; electrically interconnecting the alternate strip edges at each side of the stack by application of conductive coatings; and slicing the stack in a direction transverse and intersecting the coated sides.

2,654,061
LIMIT SWITCH CENTERING APPARATUS
Willis H. Gille, St. Paul, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application April 5, 1951, Serial No. 219,483
15 Claims. (Cl. 318—18)

1. In control apparatus for a condition changing means, in combination, a condition changing means, power means for operating said condition changing means, control means for said power means including a controller and a follow-up mechanism having a follow-up action corresponding to a predetermined change in the value of the condition to which said controller responds, connections between said power means and said follow-up mechanism for operating said follow-up mechanism, position limiting apparatus disposed at predetermined distances to either side of a normal position for said power means to limit the range of operation of said



power means, and a second power means connected to said position limiting apparatus and controlled by the operation of said first named power means to maintain said predetermined disposition of said position limiting apparatus with respect to said power means as the normal position of said power means changes.

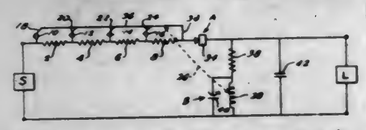
2,654,062
CONTROLLER HAVING MEANS FOR MANUALLY ADJUSTING THE SET POINT WITH A VARYING RATIO OF MOTION MULTIPLICATION
Edwin C. Burdick, Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application May 13, 1948, Serial No. 26,804
12 Claims. (Cl. 318—28)



9. A self-balancing potentiometer having a normally balanced electric circuit adapted to be unbalanced by the variable to be measured, including, a reversible variable-speed electric motor electrically connected to said circuit so as to rotate in one direction or the other depending upon the polarity of the unbalance of said circuit, a second slidewire, a contact engaging said second slidewire and movable therealong, a train of gearing mechanically connected to said motor so as to be driven thereby, a gear tooth forming part of said train and movable in one direction or the other in response to movements of said motor, and a V-shaped member mounted for movement adjacent said gear

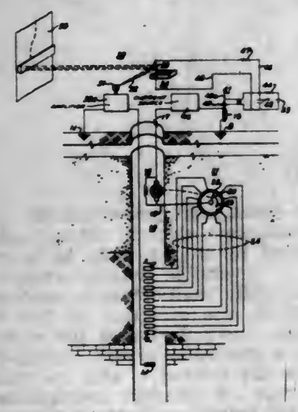
tooth and having a gear space therein adapted to be engaged and moved in either direction by said gear tooth and having on either side of said gear space suitably curved faces engaging said gear tooth and holding said V-shaped member stationary while in engagement with said gear tooth, said V-shaped member being mechanically connected to produce relative movement between said contact and said second slidewire.

2,654,063
SYNCHRONOUSLY OPERATED REGULATOR
Arthur M. Cohen, New York, N. Y.
Application June 5, 1948, Serial No. 31,297
19 Claims. (Cl. 321—16)



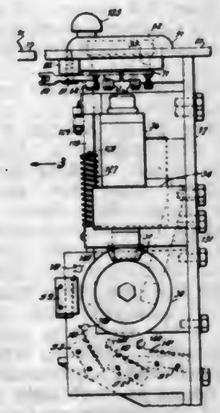
1. A regulation system comprising a current source, a current interrupter, and a load connected in sequence, a plurality of regulatory circuit components in said circuit, a plurality of contacts electrically connected to said regulatory components and successively movable between open and closed positions so as to successively connect and disconnect said components in said circuit, an actuator operatively connected to said contacts and positionable over a range of movement so as to open and close said contacts, an electrically energized element connected in said circuit after said interrupter and active on said actuator to control its position and thus determine which of said contacts are opened or closed, and phase shifting components in said circuit active on said element for controlling the phase of the current in said element relative to the phase of current flowing through said contacts so that said contacts are opened only during the periods when said circuit is interrupted.

2,654,064
ELECTRICAL RESISTIVITY LOGGING OF MUD INVADED FORMATIONS
Robert A. Broding, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application August 28, 1950, Serial No. 181,817
6 Claims. (Cl. 324—10)



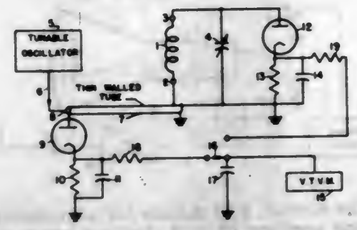
1. In an electrical well logging system wherein means including a current electrode and a potential detector respectively establish an electric field by current flow at a first point in a well bore and probe said electric field at a second point and wherein said electrode and detector are supported for movement along said well bore to vary the depth of said points for producing on a record element a plot of the electrical character of earth formations, the combination which comprises means for varying the spacing of said points between two different values, means including translating and registering means connected to said potential electrode for producing a scalar output having a magnitude dependent upon said electric field and said spacing, means for adjusting the position of said registering means along a first dimension of said record element in proportion to the depth of said points in said well bore, and means for adjusting the position of said registering means along a second dimension of said record element in proportion to the value of said spacing between said points for registering said scalar output at a situs on said element dependent upon said depth and said spacing.

2,654,065
GENERATOR ARMATURE TEST
Floyd J. Foust, Olven W. Childress, Jr., Dwight O. Crim, and Robert A. Thompson, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application October 7, 1948, Serial No. 53,362, now Patent No. 2,593,131, dated April 15, 1952. Divided and this application October 19, 1951, Serial No. 259,332
3 Claims. (Cl. 324—51)



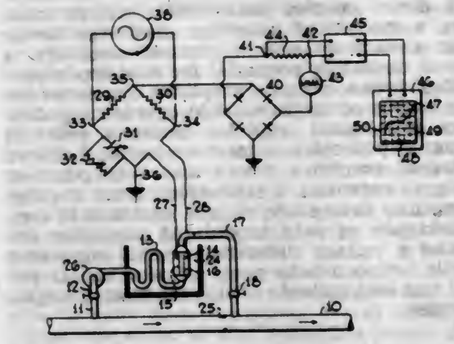
1. Apparatus for testing an armature which includes a shaft, a core and a commutator assembled with the shaft and coils assembled with the core and connected with bars of the commutator, a rotatable chuck for receiving and driving the armature shaft and providing a ground connection therefor, a driving shaft, gearing connecting the driving shaft with the chuck to impart to the latter rotative speed greater than the speed of the former, contacts engageable with the commutator at spaced points, and means operated by the driving shaft during one revolution thereof for causing the contacts to engage the commutator and for successively establishing connections between test circuits and one or more of the contacts.

2,654,066
Q METER
Jacob Rosenbaum, Spring Valley, N. Y.
Application November 5, 1951, Serial No. 254,836
10 Claims. (Cl. 324—57)



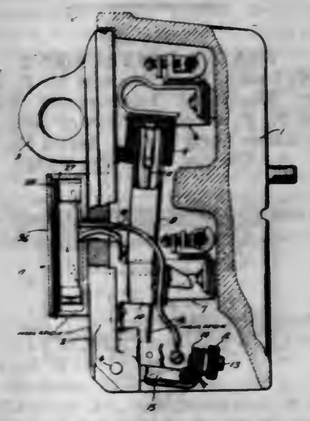
3. Apparatus for measuring the Q of a circuit element, comprising a tunable circuit adapted to include the element to be measured, a variable frequency oscillator, a coupling circuit connecting said oscillator to said tunable circuit, said coupling circuit comprising an elongated conductive tube having a perimeter which is small relative to its length and a wall thickness which is so small that the tube has an appreciable and substantially constant resistance throughout the frequency range of the oscillator, said tube being effectively connected in series in said coupling circuit and only a fractional portion of said tube being connected in series in said tunable circuit, and means for measuring the voltage supplied to said coupling circuit by said oscillator and the voltage across said tunable circuit, the length of said tube being less than $\frac{1}{20}$ of a wave length at the highest frequency of said oscillator.

2,654,067
CUT POINT DETERMINATION IN PIPE-LINE BATCHING
William A. Bruce, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware
Application October 18, 1950, Serial No. 190,819
3 Claims. (Cl. 324—61)



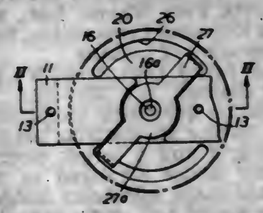
1. In the transportation of petroleum liquids through pipelines, wherein separate batches of different liquids are passed successively through the same pipeline, the method of detecting a batch change at a selected point in the line which comprises continuously passing a stream of the liquid, flowing through the pipeline at the point selected, through a detection zone, employing said liquid in said detection zone as the dielectric in an electrical capacitor, balancing the capacitance of said capacitor against a variable capacitor in a capacitance bridge, balancing the resistance of said first capacitor against the resistance of a variable resistor placed in parallel with said variable capacitor in said capacitance bridge, continuously measuring the balance of said bridge and detecting an unbalance of said bridge as an indication of a batch change in the liquid passing through the pipeline.

2,654,068
COMBINED FUSE AND DEMAND METER
Henry W. Mertens, Auburn, Maine, assignor to McGraw Electric Company, a corporation of Delaware
Application November 1, 1947, Serial No. 783,578
1 Claim. (Cl. 324—103)



In a device of the class described, a housing having an upper and a lower stationary contact, said housing having means for removably receiving doors provided with fuses, a door arranged to be received by said housing, a fuse structure carried on the inner side of said door and including a fuse tube having three distinct and separate contacts including an upper, a lower, and an intermediate contact with the upper and intermediate contacts arranged to respectively engage the upper and lower stationary contacts of said housing when said door is in closed position, a fuse link within said tube electrically connecting the upper and lower contacts of said fuse tube, and a meter connected between the intermediate and lower contacts of said fuse tube.

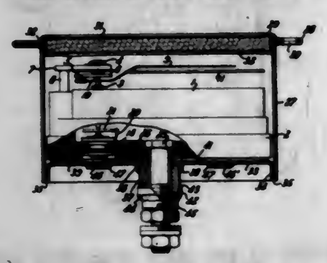
2,654,069
MOVEMENTS OF ELECTRICAL MEASURING INSTRUMENTS AND THE LIKE
George N. Harding, Aldershot, England, and Otto Franz Wilhelm Thal, Bielefeld, Germany, assignors to Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England
Application October 26, 1949, Serial No. 136,863
In Great Britain September 3, 1948
4 Claims. (Cl. 324—151)



1. In an electrical instrument movement having a moving assembly comprising a spindle and

a magnet fastened on said spindle, a control magnet arranged to exert a control torque on the moving assembly, a mounting for the control magnet, the mounting means being arranged to allow for adjustment of the control magnet to set the zero position of the moving assembly, the control magnet and the moving assembly having parts which co-act with one another at different angular positions of said assembly and so limit the permitted movement of the latter, whereby adjustment of the control torque magnet to shift the zero position of the moving assembly at the same time shifts in the same direction both limits of the permitted movement of the moving assembly.

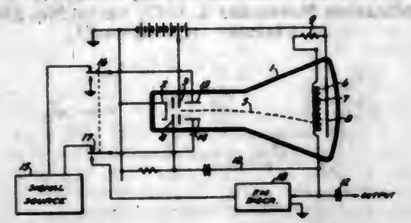
2,654,070
SEALED INSTRUMENT
Francis X. Lamb, East Orange, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application April 7, 1948, Serial No. 19,525
13 Claims. (Cl. 324—155)



1. A hermetically sealed electrical instrument comprising the combination with a cylindrical metallic housing, and a glass window solder-sealed across the front end of the housing; of an end wall of metal extending across the rear end of and solder sealed to said housing, and an electrical measuring instrument rigidly secured to said metal end wall for insertion into and removal from said housing as a unit with said metal end wall, said metal end wall being provided with a plurality of openings therethrough, threaded terminal studs for said instrument projecting through and spaced from the edges of certain of said openings, means extending across the other openings and soldered to said metal end wall to seal the same, means insulating said terminal studs from said end wall and including ceramic insulating bushings surrounding said terminal studs at the exterior of the casing, means including said bushings and clamp nuts threaded upon said terminal studs for rigidly securing the same to said end wall, and solder hermetically sealing the opposite ends of said bushings to said end wall and terminal studs respectively.

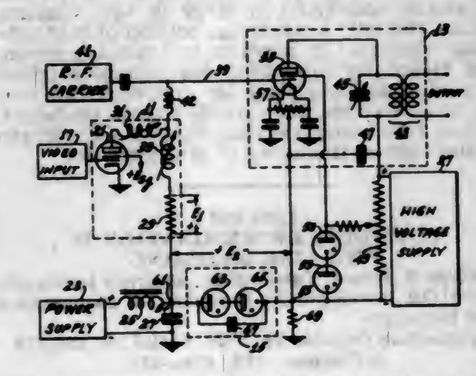
2,654,071
FREQUENCY OSCILLATION MODULATOR
Albert S. Harris, Fort Wayne, Ind., assignor to Farnsworth Research Corporation, Fort Wayne, Ind., a corporation of Indiana
Application July 5, 1951, Serial No. 235,345
7 Claims. (Cl. 332—25)

1. An oscillation generator comprising a cathode ray tube having an electron beam source, a beam control grid and a target electrode comprising a delay device arranged to receive the electrons of said beam, said delay device comprising a helically wound coil, and a capacitive member in close proximity to said coil, means for coupling said delay device to said control grid, whereby a regenerative feedback is provided for energy of a frequency determined by the phase



shift in the circuit, and means for adjustably controlling the position of said electron beam on said delay device to control the oscillation frequency.

2,654,072
DIRECT COUPLED MODULATION SYSTEM
Raymond Lamar Meisenheimer, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 29, 1952, Serial No. 279,351
11 Claims. (Cl. 332—66)

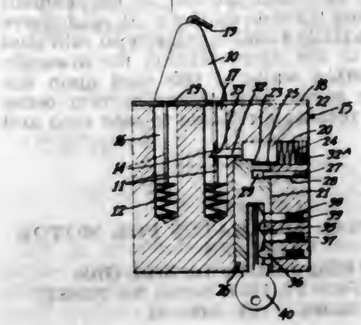


1. A direct coupled modulation system comprising a modulated amplifier discharge device having a cathode and a control electrode, a source of operating potential for said modulated amplifier device, a signal amplifier discharge device, a source of unidirectional operating potential for said signal amplifier device, a point of zero signal potential, a load connected between said signal amplifier device and said point of zero signal potential, a connection from the signal amplifier device side of said load to said control electrode of said modulated amplifier device, and a voltage difference circuit connected in series between said point of zero signal potential and said cathode of said modulated amplifier device.

2,654,073
LOCKING DEVICE FOR ELECTRIC PLUGS
Rudi Katz, Long Beach, N. Y.
Application July 29, 1950, Serial No. 176,723
3 Claims. (Cl. 339—37)

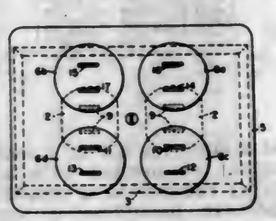
1. The combination with an electric circuit plug having perforated prongs; of a receptacle means, twin bores extending inwardly from one end of said receptacle means in which said prongs are housed, a latch pin in the receptacle extending laterally to said bores for yieldable engagement with a hole in one of said prongs for preventing separation of the receptacle means and the plug, and a key controlled locking mechanism

revolvable to withdraw said latch pin to release the prong for separation of said lock means from



the plug and a spring for urging said latch pin into engagement with said prong.

2,654,074
MULTIPLE ELECTRIC PLUG RECEPTACLE
Daniel Lancelot, Pittsburgh, Pa.
Application October 7, 1950, Serial No. 189,005
4 Claims. (Cl. 339—76)



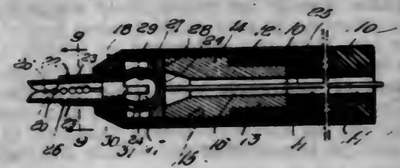
1. An electrical convenience outlet unit for attachment to a standard built-in, flush mounted, convenience outlet having two conventional plug receptacles and at least one threaded hole for receiving a cover plate mounting screw, comprising, in combination, a base of electrical insulating material, two pairs of metal bayonet prongs fitted and secured in said base in positions to plug into the two conventional plug receptacles, respectively; a metal strip connected to one prong of one of said pairs of prongs and secured in said base, a second metal strip corresponding to the first-mentioned metal strip secured to a prong of the other pair of prongs positioned diagonally opposite said first-mentioned prong, said second metal strip being secured in said base in a position substantially paralleling and opposite to said first-mentioned metal strip, metal strips connected to the remaining prong of each pair of prongs and secured in said base in parallel spaced relation with the metal strip connected to the other prong of that pair forming spaced pairs of metal strips, said base having spaced pairs of openings therethrough into said spaced pairs of metal strips for permitting the entrance of the prongs of standard electrical plugs into engagement with the respective pairs of metal strips, whereby a plurality of parallel connections is afforded with each pair of metal strips, and a mounting screw clearing through said base and adapted to engage the threaded hole in the standard convenience outlet to secure said base over the standard convenience outlet.

2,654,075
TEST PROBE
James J. Gabore, New York, N. Y.
Application January 10, 1950, Serial No. 137,791
9 Claims. (Cl. 339—108)



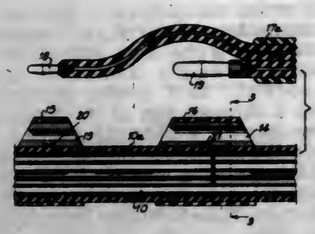
7. A test probe comprising a tubular handle made of insulating material, a tubular probe member attached to the front end of the handle and extending forwardly therefrom, and being coaxial therewith, said probe member being formed with a through slot at its forward end, a rod member having a straight portion slidable through said tubular probe member, at least one of said members being made of electrical conductive material, said rod member being formed with an offset portion extending from the straight portion into said through slot, and a hook portion traversing the open end of said tubular probe member, the outer end of said hook portion being aligned with a portion of said tubular probe member diametrically opposite to said slot.

2,654,076
ELECTRICAL TESTING INSTRUMENT HAVING INSULATION PIERCING AND WIRE GRIPPING MEANS
Clair W. Hudlow, Washington, D. C.; Matthew J. O'Callaghan, Jr., administrator of said Clair W. Hudlow, deceased, assignor of one-third to Eleanor Derr, Washington, D. C., one-third to Ruth Wallace, Greenbelt, and one-third to Lucille Stumpf, Takoma Park, Md.
Application February 9, 1951, Serial No. 210,122
4 Claims. (Cl. 339—108)



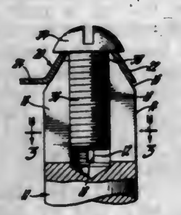
1. A device of the character described comprising an elongated cylindrical handle of dielectric material having a centrally disposed longitudinal channel therethrough and having a recess in its outer end, a hollow cylindrical extension piece of dielectric material of identical outer diameter with said handle, a metallic hollow cylindrical connector threaded into said extension piece at the outer portion of the connector and said connector having its inner portion frictionally receivable in the recess in said handle, a U-shaped testing member having a pair of substantially parallel legs extending outwardly of said extension piece, said legs of the testing member each being semi-circular in cross sectional area and having their concave faces presented toward each other, a lead wire extending through the channel in said handle and through said connector and having electrical connection with said testing member, means for biasing said legs of said testing member toward each other, and means for maintaining said legs of said testing member in longitudinal alignment, said last-mentioned means comprising a cylindrical body positioned between the inner portions of said testing member legs, and an enlarged head formed integrally with said body and positioned within the bight portion of said testing member.

2,654,077
MULTITERMINAL SEISMIC CABLE CONNECTOR SYSTEM
Kenneth W. McLoad, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application April 6, 1950, Serial No. 154,305
6 Claims. (Cl. 339—147)



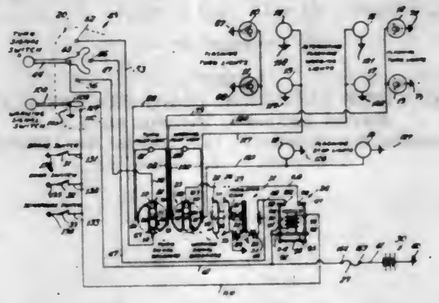
1. In a seismic prospecting system comprising a plurality of seismometers for detecting seismic energy and a cable adapted for drag movement comprising at least one pair of conductors and a protective insulating sheath for the transmission of the output of a plurality of seismometers to a recording and amplifying unit, the improvement in means for electrically interconnecting a seismometer with a pair of conductors within the cable which comprises a pair of insulated seismometer leads of different lengths terminating in conductive plugs of different diameters, a pair of conductive jacks having differing internal diameters adapted to receive and frictionally retain said plugs, insulating jackets surrounding each of said jacks and an adjacent portion of the cable sheath for protectively retaining said jacks attached to said cable spaced apart a distance less than the difference in length of said leads but at least one-half said difference along the axis of said cable with their principal axes parallel to the axis of said cable, and electrical conductors for interconnecting said pair of jacks to a pair of the conductors within the cable.

2,654,078
CONNECTOR ASSEMBLY
James L. Arthur, Indianapolis, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 3, 1950, Serial No. 193,981
2 Claims. (Cl. 339—263)



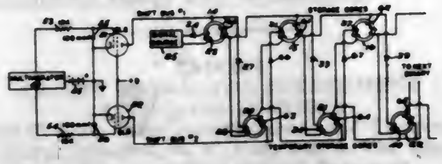
1. A connector assembly comprising an internally threaded stud having a symmetrically tapered end and longitudinally slotted walls, a connective member having an unthreaded frustoconical sleeve portion in surface engagement with the tapered end of the stud, and a screw having a head abutting one edge of the sleeve portion and a threaded portion in engagement with the internal threads on the stud, said sleeve portion being axially slidable relative to said stud by regulation of the screw tension for inwardly flexing the slotted walls of the stud upon the threads of the screw, said sleeve portion being independently rotatable relative to said stud and screw.

2,654,079
SAFETY SIGNAL APPARATUS FOR MOTOR VEHICLES
Clarence Ringwald, Springfield, Ohio
Application June 27, 1951, Serial No. 233,827
8 Claims. (Cl. 340—81)



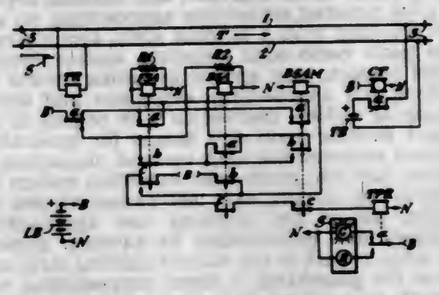
4. A signal system for use in a motorized vehicle and having connection with a source of electrical energy comprising, a plurality of electrically responsive incandescent signal lamps mountable adjacent the four corners of said vehicle, an additional plurality of incandescent signal lamps mounted on the front and rear and on opposite sides of said vehicle, but intermediate said corner positioned signal lamps, a first circuit connecting said corner positioned signal lamps with said source of electrical energy, a second circuit likewise connecting said intermediate signal lamps to said source of electrical energy, selective control switch means in said first circuit between said source of electrical energy and said first mentioned signal lamps for selectively controlling the energization of the latter, a second selective control switch means in said second circuit between said source of electrical energy and said intermediate positioned signal lamps for selectively controlling the energization of said intermediate positioned signal lamps, an electromagnetic multiple contact solenoid unit in said second circuit, an electric motor common to both of said circuits, a pair of cam operated circuit breakers, one in each of said circuits; both circuit breakers being adapted for actuation by a common eccentric cam means which is rotatably driven by said motor, whereby said two circuits may be energized either individually or simultaneously with said circuit breakers serving to cause interrupted energization of said corner and intermediate position lamps; said circuit breakers being so synchronized and related with respect to said eccentric cam as to cause alternate periodic illumination of said corner and intermediate positioned lamps when their respective circuits are energized simultaneously.

2,654,080
MAGNETIC MEMORY STORAGE CIRCUITS AND APPARATUS
Frank A. Browne, Jr., Brookline, Mass., assignor to Transducer Corporation, Boston, Mass.
Application June 19, 1952, Serial No. 294,515
14 Claims. (Cl. 340—174)



12. In combination with a magnetic memory device including a magnetic binary core with a shift winding thereon, a generator of rounded shift current pulses connected to said winding.

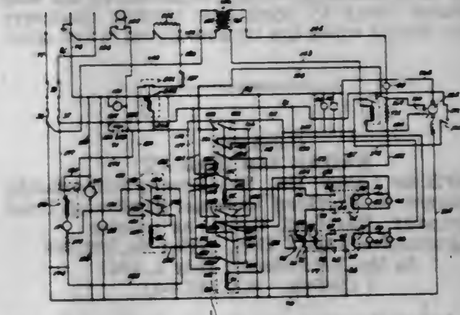
2,654,081
CODE DETECTING APPARATUS
Crawford E. Staples, Turtle Creek, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application April 28, 1950, Serial No. 158,710
12 Claims. (Cl. 340—213)



1. In combination, a code following contact recurrently operated at times between a first position and a second position, a first slow release relay, a first circuit for supplying energy to a winding of said first slow release relay when said code following contact is in its first position, a second slow release relay, a second circuit for supplying energy to a winding of said second slow release relay when said code following contact is in its second position and said first slow release relay is picked up, an auxiliary relay having slow operating characteristics, a third circuit for supplying energy to said auxiliary relay when said first slow release relay is released or said second slow release relay is picked up, said auxiliary relay having contacts interposed in said first and second circuits, and a circuit governed by contacts of said first and said second slow release relays and said auxiliary relay in series.

2,654,082
SMOKE DETECTOR
Clarence Noel Cahusac, Newark, and Frank B. Allen, Towaco, N. J., assignors to C-O-Two Fire Equipment Company, Newark, N. J., a corporation of Delaware
Application September 8, 1949, Serial No. 114,611
13 Claims. (Cl. 340—237)

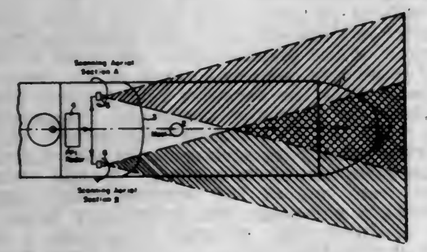
1. In apparatus for detecting smoke in a fluid, a visual light source to provide a visual indication of smoke, a visual light series resistance connected in a circuit with the visual light source to normally decrease the intensity of the visual light source, a trouble signal, a visual light supervisory relay to complete an electrical circuit to the trouble signal for indicating the operability of the visual light source, a suction blower, a suction conduit for conducting a stream of fluid into the apparatus, a suction actuated switch to complete an electrical circuit to the trouble signal for indicating the operability of the suction blower, an audible light source to provide an audible indication of smoke, a series resistance connected in a circuit with the audible light source to decrease the intensity of the audible light source, a timing switch connected across the audible light series resistance for periodically increasing the intensity of the audible light by by-passing the audible light series resistance, an audible light supervisory relay to complete an electrical circuit to the trouble signal to indicate the operability of the audible light source, a timing switch supervisory relay to complete an electrical circuit to the trouble signal for indicating the operability of the timing switch, a pair of detecting photo-electric cells adapted to receive light reflected from smoke in the fluid, a pair of balancing photo-electric cells, a pair of photo-electric cell resistances, each of the detecting and balancing cells connected in opposition and in series with one of the photo-electric cell resistances to form a pair of smoke



detecting units, a pair of sensitive relays each electrically connected across one of the detecting cells, a sensitive relay double throw switch actuated by each sensitive relay, balancing means for each of the photo-electric cell units to vary their respective outputs to each of the sensitive relays so that the sensitive relay double throw switches are normally positioned intermediate their contacts, a detecting cell trouble signal supervisory relay for each sensitive relay adapted to complete an electric circuit to the trouble signal from one of the sensitive relay switch contacts, a balancing cell supervisory relay for each sensitive relay adapted to actuate a plurality of switching means, a trouble signal double throw switch for each balancing cell supervisory relay, series connection means between the midpoints of the trouble signal double throw switches of both said relays, connection means from the contacts of one balancing cell supervisory relay trouble signal double throw switch to the contacts of the other balancing cell supervisory relay trouble signal double throw switch arranged in a reversed connection so that when either one of said relays is actuated a connection is made through the contacts controlled by the other of said relays to the trouble signal while if both of said relays are actuated the trouble circuit is opened, a smoke signal, a smoke signal relay, a normally open smoke signal relay single throw switch actuated by each of the balancing cell supervisory relays, series connection means for the smoke signal relay single throw switches of both relays, the smoke signal relay connected

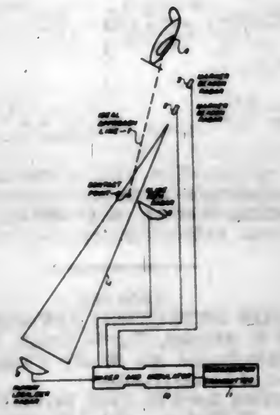
in series with the smoke signal relay single throw switches so that when both balancing cell supervisory relays are actuated the smoke signal relay is actuated, a normally open smoke signal single throw switch actuated by the smoke signal relay to complete an electrical circuit to the smoke signal, a pair of audible light resistance normally open single throw switches each actuated by a balancing cell supervisory relay and both connected across the audible light series resistance, a pair of photo-electric cell resistance single throw normally closed switches each actuated by a balancing cell supervisory relay, one of said last mentioned switches adapted to be actuated by one balancing cell supervisory relay and connected across the photo-electric cell resistance for the other balancing cell supervisory relay, the other of said last mentioned switches adapted to be actuated by the other balancing cell supervisory relay and connected across the photo-electric cell resistance for the one balancing cell supervisory relay, an electrical discharge means for a fire extinguishing system, a normally open single throw fire extinguishing system switch adapted to be actuated by the smoke signal relay to complete an electric circuit to actuate the electrical discharge means, a stop discharge relay connected in parallel with the trouble signal, and a normally closed single throw stop discharge switch actuated by the stop discharge relay to open the electric discharge means circuit when the trouble signal is actuated.

2,654,083
RADAR EQUIPMENT
Hendrik de Lange, Dr., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 1, 1949, Serial No. 102,486
In the Netherlands July 6, 1948
3 Claims. (Cl. 343—5)



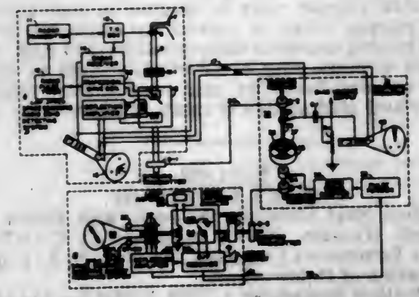
1. In a plan position indicating radar installation adapted for operation adjacent a ship's foremast or other nearby obstruction in the scanning angle of the installation and provided with a radar transmitter; an antenna system comprising two like aerial sections disposed in spaced relation and oriented relative to each other to produce two beams projecting in substantially the same direction, which beams overlap except in the area of said obstruction, means fixedly electrically interconnecting said sections and coupling said interconnected sections to a common transmission line leading to said transmitter, and means rotating said sections isochronously through equal angles whereby one of said beams will always clear said obstruction whenever the other of said beams interrupts said obstruction.

2,654,084
BLIND LANDING AND APPROACH SYSTEM
Harry Wilkie, Dayton, Ohio
Application October 10, 1945, Serial No. 621,645
10 Claims. (Cl. 343—6)
(Granted under Title 35, U. S. Code (1952), sec. 266)



5. A radio blind approach and landing system for pilot directed aeroplanes approaching an airport provided with a landing strip, comprising a glide path radio-echo detection system located at the airport, said system including means for tracking the approaching aeroplane and determining its vertical disposition with respect to the airport landing strip and means for generating a signal representing said vertical disposition, a runway localizer radio-echo detection system located at the airport, said last-named system including means for tracking the approaching aeroplane and determining its azimuth disposition with respect to the airport landing strip and means for generating a signal representing said azimuth disposition, and communication means at the airport for transmitting said signals to the aeroplane.

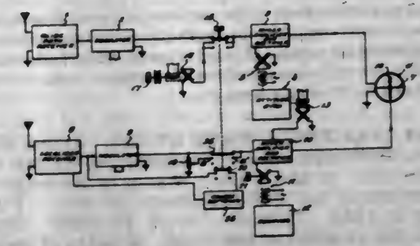
2,654,085
DETECTOR SYSTEM
Maxwell K. Goldstein, Washington, D. C.
Application March 26, 1946, Serial No. 657,314
6 Claims. (Cl. 342—6)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In combination, a radio echo obstacle detecting system scanning in space at a first rate, a directional energy receiving system scanning in space at a second rate, a cathode ray tube indicating means responsive to the first system and operative to indicate the spatial distribution of obstacles detected by said system, and circuit making means connected between said cathode ray tube indicating means and said second system operative to impress the output from said second system on said cathode ray tube indicating means when said two systems are oriented in azimuthal coincidence, whereby an obstacle transmitting energy may be identified.

2,654,086
SAFETY DEVICE FOR INSTRUMENT APPROACH SYSTEMS
Cecil C. Pine, Lake Ronkonkoma, and Charles L. Sharp, Setauket, N. Y., assignors to The Sperry Corporation, a corporation of Delaware
Application February 17, 1950, Serial No. 144,834
12 Claims. (Cl. 343—108)

1. In a radio approach system for instrument landing having a glide path receiver producing a signal upon departure of the craft from the glide path, an attitude maintaining instrument having means producing pitch signals upon pitch or climb of the craft, a guidance means responsive to signals produced by both said receiver and said attitude instrument, normally idle means for

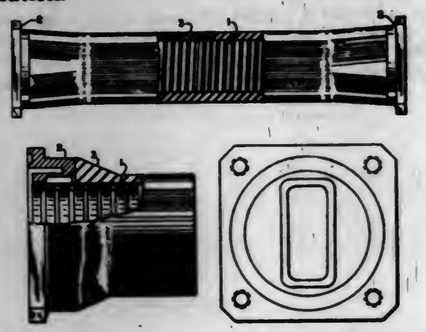


biasing the signal from said instrument to call for a climb at a predetermined angle, and manually operable means for rendering said guidance means responsive only to the signal from the attitude instrument biased from said biasing means.

ABSTRACTS OF APPLICATIONS

Published at the request of the applicant or owner in accordance with Notice of January 25, 1949, 619 O. G. 258. The abstracts are identified by serial number of the applications and arranged in chronological order. The heading of each abstract of application published herein indicates the number of pages of specification, including claims, and sheets of drawings contained in the application as originally filed. The files of these applications are available to the public for inspection and photostat copies of them, or any part thereof, may be purchased for 30 cents a sheet.

604,014. **FLEXIBLE WAVE GUIDE.** Julius Halpern, Brookline, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Filed July 9, 1945. Published Sept. 29, 1953. Class 138—68. 1 sheet of drawings. 4 pages of specification.



The device of this application relates to a hollow flexible wave guide for the transmission of very high frequency electromagnetic waves and comprises an inner spiral winding 1 of metallic strip material, a thin intermediate tube which immediately surrounds the spiral winding 1, and an outer rubber-like covering 3 molded in place under pressure and high temperature. Couplings 2 are soldered to the ends of the tube before it is placed in the mold.

The rubber-like covering 3 adheres firmly to the outside of the tube made up of the two inner layers and places the convolutions of the inner layer under strain assuring good contacts between the mutually adjacent convolutions, thus avoiding irregularity in the characteristic impedance of the conduit.

33,833. **COMPOSITE FILM FOR USE IN COLOR PHOTOGRAPHY.** Jack C. Crawford, Rochester, N. Y. Filed June 18, 1948. Published Sept. 29, 1953. Class 95—9. No drawing. 9 pages of specification.

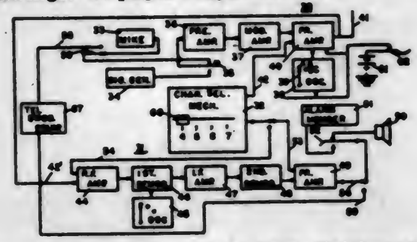
(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

This application describes a composite film for use in color photography employing a stripping film comprising a supporting film, preferably of Celluloid, and a stripping skin, preferably of cellulose nitrate, not more than about .003'' thick temporarily attached thereto by a wet or dry-stripping adhesive. Upon the stripping skin is coated a gelatin-silver halide emulsion, preferably readily soluble in hot water at about 110° F., containing an insoluble colored pigment, dye, or dye-former, which in turn is either temporarily attached to the stripping skin by means of a weak substratum, such as wax or rubber, or is permanently attached thereto. The emulsions may be selectively sensitized, for example to the corresponding primary color.

This film is exposed either through the transparent support or from the emulsion side and processed to form a positive or negative pigmented gelatin relief image on the stripping skin. The stripping skin layer containing the pigmented gelatin relief image is then stripped from the temporary supporting film and transferred, face down, to another support—either a white pigmented base or a transparent support. The moisture in the pigmented gelatin relief image then escapes through the very thin .003'' stripping skin permitting the colored image to dry down and adhere firmly to the new support. Then the stripping skin may be peeled away, because of the weak sub, and leave the colored image adhering to the new support. When suitably colored images from color separation negatives or directly from colored originals are superimposed one upon another in register, a complete natural-color picture can be obtained.

Alternatively, full color pictures can also be made by superimposing the stripping skins with their pigmented relief images, one upon another in register, but without peeling away the skins. In this case the reliefs may be bathed in a 2% basic formaldehyde solution which permanently fixes the gelatin to the skin in spite of the weak substratum.

41,087. **TIME DIVISION MULTIPLEX RADIOPHONE SYSTEMS.** Charles H. Homrighous, Oak Park, Ill. Filed July 28, 1948. Published Sept. 29, 1953. Class 343—204. 3 sheets of drawings. 20 pages of specification.



The disclosure relates to a time-division multiplex radio communication system.

The radio system comprises a plurality of numerically designated stations each assigned individual incoming and outgoing channels so that a number of two-way communications can take place at the same time over carrier waves of the same frequency transmitted intermittently. One station transmits fragmentary portions of signals representative of a message during selected periods, and the other stations transmit during other selected periods. Likewise, the receivers in each station may receive message signals during selected periods.

Each station comprises generally a transmitting portion 30 and a receiver portion 31. An antenna 41 common to both transmitter and receiver is provided and each station further comprises selector unit 32.

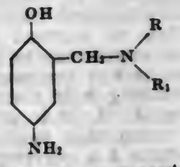
Each station is assigned a different fixed period for reception and this channel is numbered corresponding to the numerical designation of the station. The receive channel selection is effected by the selector 32 which applies periodic unblocking pulses to the radio receiver at R. F. amplifier 44 or audio amplifier 49 at the times allotted for reception. The transmitter is rendered operative by periodic unblocking pulses fed to the power amplifier 40 from the selector 32 during periods corresponding to the receive periods of the station with which it is desired to communicate. The different stations may be selected by movement of element 60 on the selector which serves to shift the time periods of the unblocking pulses. Thus each station may communicate with any other station in the system without interfering with communication between other stations.

Two species of selector mechanisms 32 are disclosed. Both comprise a cylindrical drum rotated at constant speed by an electric motor. In one embodiment, a light source is disposed within the drum and spaced slits are provided in the drum itself. Two photoelectric devices, one stationary to provide the receive channel pulses, and the other movable (by means of element 60) to provide the transmit channel pulses, are mounted exteriorly of the drum. The slits are so spaced that one receive channel pulse and one transmit channel pulse are generated for each revolution of the drum. The second selector embodiment comprises strips of magnetic material on the drum surface and magnetic pick-up heads to generate the control pulses. To maintain the selectors at all the stations in synchronism, the motors for rotating the drums are energized from a common power source, which may be the A. C. supply for the area.

The system is described as being applicable to both wired and wireless communication and may be used in conjunction with local telephone exchanges.

103,533. **2-HYDROXYALKYLAMINOMETHYL-4-AMINOPHENOLS.** Frederic R. Bean and and Thomas S. Donovan, Rochester, N. Y. Filed July 7, 1949. Published Sept. 29, 1953. Class 260—570.9. No drawing. 11 pages of specification.

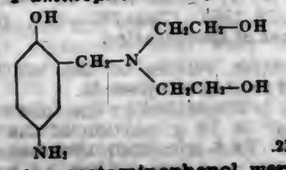
2-hydroxyalkylaminomethyl - 4 - aminophenols (in the form of their acid-addition salts) having the formula:



wherein R and R_1 each represents a hydroxyalkyl group, e. g. β-hydroxyethyl, β-hydroxypropyl, β-hydroxyisopropyl, etc. are prepared by condensing p-acetaminophenol together with formaldehyde and a di-(hydroxyalkyl)amine (e. g. di-β-hydroxyethylamine, di-β-hydroxyisopropylamine, etc.), followed by hydrolysis of the resulting 4-acetamino-2-hydroxyalkylaminomethylphenol in aqueous acid solution to give the acid-addition salt of the compound having the above general formula.

The following example is typical:

Example.—2-di-(β-hydroxyethyl) aminomethyl-4-aminophenol dihydrochloride



77 g. of p-acetaminophenol were added to a flask containing 200 cc. of methanol, and 53 g. of di-(β-hydroxyethyl) amine and 44 cc. of a 37 per cent formalin solution were added. The reaction mixture was then refluxed for 4 hours, concentrated in a vacuum to a thin syrup and allowed to stand. No crystalline material could be separated from the concentrated solution by the usual methods. However, the addition of concentrated hydrochloric acid to the syrup caused the precipitation of the crystalline hydrochloride of 2-di-(β-hydroxyethyl) aminomethyl-4-acetaminophenol, which was filtered off, washed and dried.

The acetamino compound obtained above was then dissolved in 125 cc. of 30 per cent hydrochloric acid and the solution refluxed for 2 hours. It was then concentrated under a vacuum to a crystalline mass. On recrystallization of the solid from ethanol, light tan crystals were obtained which discolored above 200° C., but did not melt below 270° C.

These 2 - hydroxyalkylaminomethyl-4-aminophenols are useful in the form of their acid addition salts as photographic developing agents.

112,408. **BARYTA COATING COMPOSITIONS AND PAPER COATED THEREWITH.** George R. Clark, Rochester, N. Y. Filed Aug. 25, 1949. Published Sept. 29, 1953. Class 117—155. No drawing. 9 pages of specification.

In the manufacture of photographic paper the usual practice is to provide the paper support with a baryta coating composed of barium sulfate and a binder prior to the application of the light sensitive silver halide emulsion layer thereto. Up to now gelatin has been most commonly employed as the binder in baryta coating compositions. Some disadvantages appear in the baryta coating of paper with gelatin baryta compositions the principal ones being the high viscosity of the coating composition, a change in viscosity of the composition over a period of time and lack of the desired flexibility in the baryta coating.

I have found that improved baryta coating compositions are obtained by substituting for the gelatin or other binder ordinarily employed a styrene-butadiene latex either in whole or in part (at least 25% of the binder). I have found that baryta compositions thus prepared have good keeping qualities, exhibit no adverse effect upon the sensitive qualities of the emulsion and the coatings thereof exhibit better flexibility than regular baryta coatings. The preparation of latices of styrene-butadiene are disclosed in the prior art such as in U. S. Patent No. 2,537,114 of Young et al. In my baryta compositions the proportion of pigment to binder may be 5–20:1 for satisfactory operation. Also a hardener may be included such as formaldehyde or the like. I have prepared baryta compositions having as much as 52½% of solids and have prepared coatings therefrom giving a satisfactory surface to the paper with only one coating operation. These baryta coating compositions have good viscosity stability in that the compositions can stand for 24 hours or longer without thickening.

As an example of the preparation of baryta coatings the following procedure may be employed:

A baryta coating composition was prepared by placing 840 lbs. of blanc fixe (55% solids) in a vessel together with 2.78 lbs. of sodium hexametaphosphate or the ammonia treated copolymer of vinyl acetate and maleic anhydride and the mass was well mixed. 12 lbs. of gelatin which had been soaked in 60 lbs. of water was warmed to dissolve the gelatin and this gelatin solution was added to the vessel. 80 lbs. of styrene-buta-

diene latex having a solids content of 45% was added as was also 352 cc. of 40% formaldehyde and 10.25 lbs. of butyl alcohol. The mass was thoroughly mixed and then melted to assure uniformity of the dispersion of blanc fixe in the liquid mass.

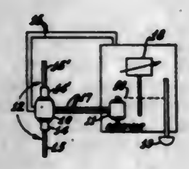
The baryta composition was coated out onto paper in the form of a thin layer and was dried by means of a current of warm, dry air. The resulting paper had good whiteness, a particularly smooth surface and was especially resistant to folding and curl. This paper was susceptible to coating with a photosensitive silver halide emulsion.

116,848. **FATTY ACID SALTS OF STREPTOMYCIN AND DIHYDROSTREPTOMYCIN.** Henry Welch, Hillandale, Silver Spring, Md. Filed Sept. 20, 1949. Published Sept. 29, 1953. Class 260—210-S. No drawing. 7 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

The disclosure provides therapeutic agents comprising the undecylenate salts or reaction products of streptomycin and dihydrostreptomycin by a process involving the neutralization of the base of streptomycin or dihydrostreptomycin with the undecylenic acid and if desired in the presence of ethanol to facilitate solution.

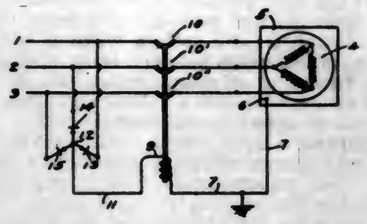
151,866. **ADJUSTABLE ANTENNA SYSTEM.** Norman C. Fulmer, Montclair, and Alfred Ertel, Newark, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania. Filed Mar. 23, 1950. Published Sept. 29, 1953. Class 250—33. 3 sheets of drawings. 19 pages of specification.



This application discloses a tunable antenna system. The system comprises a follower, or receiving selsyn 10, and a controller, or sending selsyn 11, which are used in conjunction with a dipole antenna 12 and a tuning control 13 to provide automatic adjustment of the antenna. The antenna 12 comprises a pair of oppositely extending arms 15, 15' which are movably held in respective guide sleeves 14, 14' secured to the housing of selsyn 10. The antenna leads 16 enter the selsyn 10 through this insulated housing and are connected to the ends of the dipole arms. Selsyns 10 and 11 are electrically connected by a cable 17. Sending selsyn 11, tuning control 13, and adjustable tuning element 18 are mechanically interconnected for synchronous operation by means of a linkage 50. In operation, movement of the tuning control 13 effects rotation of sending selsyn 11. This rotation is communicated via cable 17 to the receiving selsyn 10 where it causes the arms 15, 15' to be symmetrically extended or retracted. This latter movement is synchronized with the movement of the tuning control 13 and tuning element 18 so that the antenna is tuned to the proper frequency at all times.

170,439. **RECTIFIER GROUNDING DEVICE FOR ALTERNATING CURRENT CIRCUITS.** Lawrence H. Harrison, Birmingham, Ala. Filed June 26, 1950. Published Sept. 29, 1953. Class 317—18. 1 sheet of drawings. 9 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



This application discloses a safety device for disconnecting an alternating current motor from the line should the frame or housing of the machine become energized through insulation or other fault creating a shock hazard to persons coming into contact with the machine. The device has particular application to installations where no grounded system neutral conductor is available to which the frame or housing of the machine may be connected and where in addition it is not possible to secure a good direct ground for the frame or housing of the machine. The figure shows a three phase machine 4 having a frame 5 delta connected through a circuit breaker having contacts 10, 10', 10'' and an operating winding 9, to a three phase supply line having conductors 1, 2, 3.

A circuit extends from a terminal 6 on the frame 5 of the machine 4 through a conductor 7 grounded at 8, through the operating winding 9 of the circuit breaker, and conductor 11 to the neutral point 12 of three Y connected rectifiers 13, 14, 15 having their cathodes connected respectively to the three phase conductors 1, 2, 3 and their anodes connected to the common neutral point 12. The arrangement thus presents a high impedance to flow of current from phase to ground but a low impedance to the flow of current from the frame 5 of the machine 4 through the operating winding 9 of the circuit breaker and the rectifiers 13, 14, 15 to phase conductors 1, 2, 3. In the event of a fault energizing the frame 5, of machine 4 a current will flow from the energized frame through the above described circuit to one or both of the unfaulted phases so long as the faulted phase is sufficiently positive with respect to one or both of the unfaulted phases (about two thirds of a cycle).

This current flowing through operating winding 9 will be of sufficient magnitude and duration to actuate the circuit breaker opening contacts 10, 10', 10'' disconnecting the machine 4 from the line.

197,646. **POLYENE SYNTHESES AND COMPOUNDS PREPARED THEREBY.** John D. Cawley, James G. Baxter, and Leonard Weisler, Rochester, N. Y. Filed Nov. 25, 1950. Published Sept. 29, 1953. Class 260—617. No drawing. 24 pages of specification.

The application relates to the synthesis of vitamin A and related compounds.

The process is illustrated by the following specific examples. A 1.5 g. portion of the butynyl ketone (I), 4-(2,6,6-trimethyl cyclohexen-1-yl) but-3-yne-2-one was refluxed for 1.5 hrs. with

0.6 g. of zinc, 1.6 g. of ethyl bromoacetate, 15 ml. of benzene and a trace of mercuric chloride. The resulting mixture was cooled and hydrolyzed with ammonium chloride solution to the β-hydroxy ester (II), 3-methyl-3-hydroxy-5-(2,6,6-trimethyl cyclohexen-1-yl) penta-4-yne oic ester which was a yellow oily concentrate weighing 2.0 g. and having

$$E^{1\%}_{1cm}\ (232m\mu) = 434$$

This ester (II) was heated at 70° C. for 10 min. in 20 ml. of benzene containing 2 g. of phosphorous pentoxide to effect dehydration to the ethyl ester (III), 3-methyl-5-(2,6,6-trimethyl cyclohexen-1-yl) penta-2-ene-4-yne oic acid having

$$E^{1\%}_{1cm}\ (308m\mu) = 430$$

A 1.0 g. portion of (III) was reduced in ether by the addition of 10 ml. of 1 M. ethereal lithium aluminum hydride. The primary alcohol (IV) thus formed had

$$E^{1\%}_{1cm}\ (270m\mu) = 564$$

with a secondary peak at 284 mμ and a minor inflection at 262 mμ. In the first described embodiment, 1.0 g. of (IV) in 20 ml. of benzene was refluxed for 20 hrs. with 1.5 g. of aluminum isopropoxide and 10 ml. of acetone, the product hydrolyzed with aqueous hydrochloride acid and purified to give 1.17 g. of the ketone (V), 6-methyl-8-(2,6,6-trimethyl cyclohexen-1-yl) octa-3,5-diene-7-yne-2-one having

$$E^{1\%}_{1cm}\ (350m\mu) = 371$$

The ketone (V) was then treated, as ketone (I) had been, in a Reformatsky reaction and hydrolysis to give the β-hydroxy ester having

$$E^{1\%}_{1cm}\ (298m\mu) = 515$$

which was dehydrated by heating for 30 seconds with acetic anhydride and ethyl hydrogen sulfate to the ester (VI), 3,7-dimethyl-9-(2,6,6-trimethyl cyclohexen-1-yl) nona-2,4,6-triene-8-yne-oic acid which, when purified, had

$$E^{1\%}_{1cm}\ (354m\mu) = 780$$

This ester (VI) was reduced to the alcohol (VII) with lithium aluminum hydride as described, and the alcohol (VII) reduced to vitamin A alcohol with hydrogen in ethanol containing palladium catalyst on calcium carbonate. The vitamin A alcohol had

$$E^{1\%}_{1cm}\ (326m\mu) = 650$$

and gave a blue color with $SbCl_3$.

In the alternative embodiment, 0.57 g. of alcohol (IV) was mixed with 5 ml. of naphtha and 3 g. of manganese dioxide and the mixture was shaken well and allowed to stand overnight at room temperature. After purification, 0.5 g. of aldehyde (VIII) was recovered having

$$E^{1\%}_{1cm}\ (284m\mu) = 245$$

and

$$E^{1\%}_{1cm}\ (326m\mu) = 304$$

This aldehyde and 0.5 g. of the methyl diester of β-methyl glutaconic acid were condensed by standing overnight in 4.5 ml. of methanol containing 0.23 g. of potassium hydroxide followed by refluxing for 30 minutes with 0.5 g. of potassium hydroxide in 14 ml. of water. After acidification and extraction, 0.4 g. of diacid (IX), 4-carboxy-3,7-dimethyl-9-(2,6,6-trimethyl cyclohexen-1-yl) nona-2,4,6-triene-8-yne-oic acid was recovered having

$$E^{1\%}_{1cm}\ (334m\mu) = 450$$

This diacid was decarboxylated by heating at 125° C. for 1.5 hrs. in 7 ml. of lutidine containing 0.1% copper acetate to give 0.3 g. of monoacid (X) having

$$E^{1\%}_{1cm}\ (350m\mu) = 785$$

The monoacid was esterified by heating for 2 hrs. in 4 ml. of methyl ethyl ketone containing 1 g. of methyl iodide and 0.4 g. of potassium carbonate to give 0.4 g. of the methyl ester of the monoacid having

$$E^{1\%}_{1cm}\ (352m\mu) = 760$$

This ester was treated for 1 min. at room temperature with 10 ml. of 1 M. ethereal lithium aluminum hydride to give 0.38 g. of the corresponding alcohol having

$$E^{1\%}_{1cm}\ (326m\mu) = 770$$

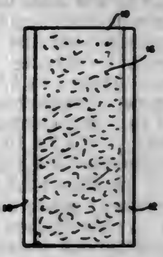
This alcohol was hydrogenated to vitamin A alcohol having

$$E^{1\%}_{1cm}\ (326m\mu) = 650$$

by addition of 8 ml. of hydrogen in the presence of a palladium-calcium carbonate catalyst. The product gave the typical vitamin A blue color with antimony trichloride.

205,167. **ELECTROLYTIC HUMIDITY ELEMENTS.** Leo S. Craig, Shrewsbury, N. J., assignor to the United States of America as represented by the Secretary of the Army. Filed Jan. 9, 1951. Published Sept. 29, 1953. Class 201—63. 1 sheet of drawings. 5 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



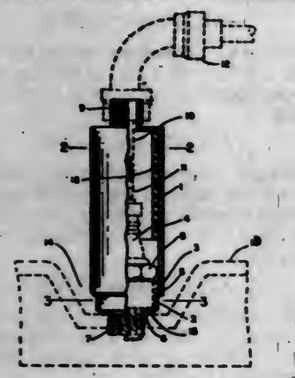
This application relates to a humidity sensitive element for use in radiosonde. As shown in Fig. 1, this element consists of a rectangular base 10 of thin plastic insulating material, electrodes 12 and 14 of conductive metallic coating, and a hygroscopic film 16 of electrolytic material such as lithium chloride, coated in the area between the electrodes. The distance between the electrodes is substantially two inches.

206,092. **SPARK PLUG SHIELD.** Frank M. Hall, Rumson, N. J., assignor to the United States of America as represented by the Secretary of the Army. Filed Jan. 15, 1951. Published Sept. 29, 1953. Class 123—169. 1 sheet of drawings. 7 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

A radiation shield of tubular metal having upper and lower sections united by a threaded connection and completely embracing a spark plug, the lower section being clamped to the engine by the plug itself and extending for a short distance upwardly only, the upper section when

removed permitting complete access to the spark plug. Provision is made at the top of the upper



section for the entrance of a cable for energizing the electrode of the plug.

223,810. **METHOD FOR APPLYING SOLID INSECTICIDES.** Richard W. Fay and Wooten T. Sumerford, Savannah, Ga., assignors to the United States of America as represented by the Administrator of the Federal Security Agency. Filed Apr. 30, 1951. Published Sept. 29, 1953. Class 167—30. No drawing. 9 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

The invention relates to a process for the application of normally solid organic compounds having residual insecticidal properties, which comprises heating such a compound to a temperature between its melting point and its decomposition temperature, and then applying a spray of the molten compound to the area to be treated. Examples of such compounds are DDT; 1-trichloro-2,2-bis(p-fluorophenyl)-ethane (DFDT); 1,1-bis-(p-methoxy-phenyl)-ethane (methoxychlor); 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-indene (heptachlor); 1,2,4,5,6,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindane (chlordan); 1,2,3,4,10,10-hexachloro-1,4,4a,5,6,6a-hexahydro-1,4,5,8-dimethano-naphthalene (Aldrin); gamma-1,2,3,4,5,6-hexachlorocyclohexane (lindane); ortho and para dibromobenzene (PFBB); a chlorinated camphene (toxaphene); 2,3-dimethyl-2,3-butanediol (penacol) and the technical formulations of these compounds. Mixtures of the DDT and DFDT; DDT and DDD; DDT and PDBB; and toxaphene and penacol may also be employed for the purpose of this disclosure. For DDT, for example, the temperature may be from 95° to 100° C.; spray pressures for the molten materials would be between 60 and 300 pounds per square inch. It has been found that organic insecticides, when sprayed in this manner, have very good adherency to such articles, for example, as polished glass, wood, metal, fibrous and other surfaces.

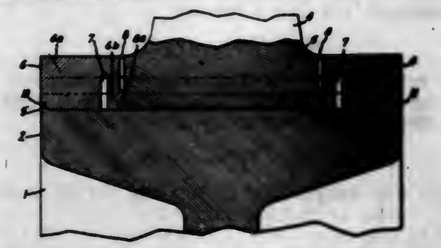
229,296. **GROWTH OF PURE YEAST STRAINS.** Clifford William Hesseltine, Pearl River, and Nestor Bohonos, Nanuet, N. Y. Filed May 31, 1951. Published Sept. 29, 1953. Class 195—123. No drawing. 8 pages of specification.

Broad spectrum antibiotics such as aureomycin, chloramphenicol, and terramycin in a concentration of from approximately 1 to 100 micrograms per milliliter inhibit the growth of bacteria without deleteriously influencing the propagation or storage of yeasts. Yeasts for the fermentation of alcohols or bread, etc., may be propagated in the presence of these broad spectrum antibiotics and thereby the growth of bacterial contaminants may be controlled and pure yeast growths obtained.

Example

In a commercial brewery, it is customary to draw off certain yeast layers from the bottom of the vats of beer to use as an inoculum for the next batch of beer. In accordance with conventional brewing practice tubs of yeast are drawn from the bottom of a tank to pitch a subsequent tank. Sufficient aureomycin hydrochloride may be added to these tubs so that the concentration in them is 25 micrograms per milliliter. The aureomycin hydrochloride may be added as a fine crystalline powder and stirred into the tubs of yeast. The yeast is then stored in a cold room until a new batch of beer is to be produced with this yeast as the inoculum. It is found that the new batch of beer is substantially free from bacterial contaminants even though the first batch had present in it sufficient of a contaminant *Aerobacter aerogenes* to give an unpleasant taste to the beer.

240,708. **BLADE ANCHORING FOR AXIAL FLOW COMPRESSOR.** Thomas N. Hull, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York. Filed Aug. 7, 1951. Published Sept. 29, 1953. Class 230—134. 2 sheets of drawings. 8 pages of specification.



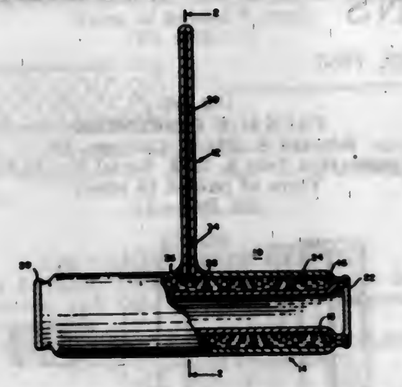
This application relates to axial flow compressor blade locking means, including a spring member to urge the blade back to its original centered position on the bladed wheel rim when centrifugal force and temperature conditions go through repeated cycles. The spring may take the form of a cantilever beam identified 6*b* in the drawing secured at one end to the spacer block 6*a* with its free end engaging the blade base 5. Repeated cycles of operation tend to cause the blade base to creep axially along the dovetail slot in the wheel rim, and the effect of the spring member is to urge the blade base back to its original centered position relative to the wheel rim when temperature and stress conditions return to normal. This prevents the blade from "creeping" axially along the dovetail groove.

245,622. **EXPANDING FLUID THERMOMETER HAVING THERMALLY SENSITIVE BULB.** James M. Brady, West Long Branch, N. J. Filed Sept. 7, 1951. Published Sept. 29, 1953. Class 73—368. 1 sheet of drawings. 4 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

The thermometer consists of a transparent calibrated stem 12 having a capillary 30 in fluid-communication with the annular passageway 24 between the concentric tubes 16 and 18, which form the bulb 14. The tubes are made from metal alloys, the inner tube being made of an alloy having a higher thermal coefficient of expansion

than that of the outer tube, and are sealed together at ends 20 and 22 to close off the passageway, but without closing the bore of the inner tube 18. The capillary 30 and the passageway are evacuated of air and the passageway filled with a thermally expansive liquid.



In use, the volume of the passageway is a function of the temperature to which the bulb is exposed, since the inner tube will expand more than the outer tube upon increase of temperature and contract more on decrease in temperature, than will the outer tube. Hence, on the change of temperature, the amount of liquid moving into or out of the capillary due to thermal expansion or contraction of the liquid in the bulb will be augmented by a corresponding contraction or expansion of the volume of the passageway.

Examples of available alloys and liquids suitable for the construction of the thermometer are given in the application.

287,278. **ROCKET WEAPON.** Jack De Ment, Portland, Oreg. Filed May 12, 1952. Published Sept. 29, 1953. Class 102—50. 1 sheet of drawings. 11 pages of specification.

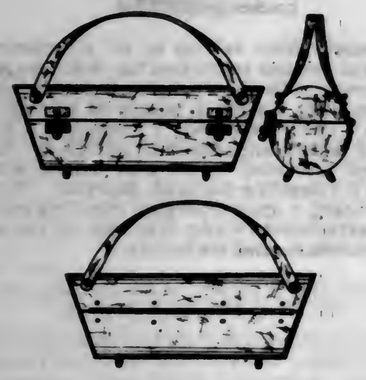


The application relates to an attachment for missiles or rockets to control the flight trajectory. As disclosed in the figure a gun or rocket launcher is shown at C, having a muzzle M provided with slits S'. The attachment 1 comprises a tapered collar to which are attached airfoils 2. The attachment is seated in the gun muzzle with the airfoils 2 extending through the slits. The missile or rocket A upon emerging from the gun picks up the attachment 1 and is guided by the airfoils 2 in a predetermined trajectory.

DESIGNS

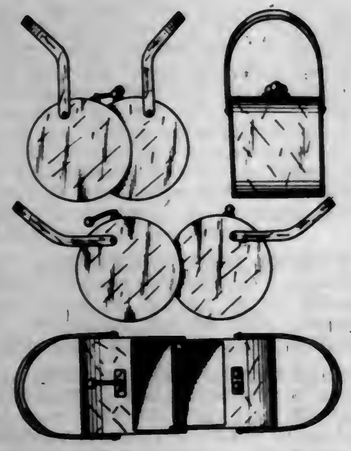
SEPTEMBER 29, 1953

170,490
HANDBAG
Sheldon J. Aberman, Miami Beach, Fla.
Application May 18, 1953, Serial No. 25,099
Term of patent 3½ years
(Cl. D87—3)



The ornamental design for a handbag, substantially as shown.

170,491
HANDBAG
Sheldon J. Aberman, Miami Beach, Fla.
Application May 18, 1953, Serial No. 25,100
Term of patent 3½ years
(Cl. D87—3)



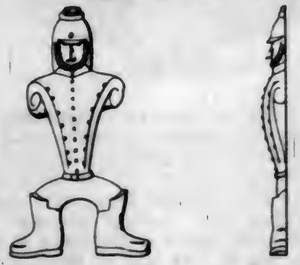
The ornamental design for a handbag, substantially as shown and described.

170,492
PACKAGE DISPENSER
Edward S. Black, Chicago, Ill.
Application July 3, 1952, Serial No. 20,458
Term of patent 14 years
(Cl. D52—2)



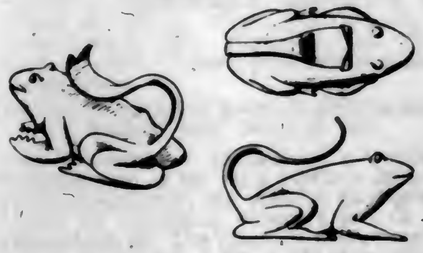
The ornamental design for a package dispenser, as shown.

170,493
ANDIRON FRONT
Gerome Brush, Lincoln, Mass.
Application January 21, 1953, Serial No. 23,198
Term of patent 3½ years
(Cl. D61—6)



The ornamental design for an andiron front, as shown.

170,494
TOY FIGURE
Eunice B. Darrech, Livingston, Mont.
Application May 11, 1953, Serial No. 24,952
Term of patent 14 years
(Cl. D34—2)



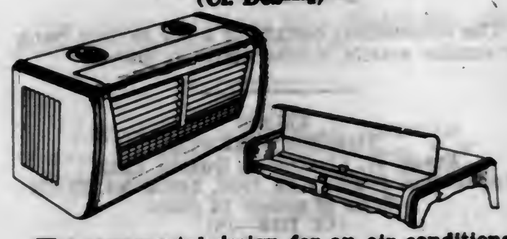
The ornamental design for a toy figure, as shown.

170,495
NARROW EMBROIDERED TRIMMING OR THE LIKE
Fred J. Diamant, New York, N. Y., assignor to Desco Shoe Corp., Long Island City, N. Y.
Application May 28, 1953, Serial No. 25,232
Term of patent 7 years
(Cl. D92—1)



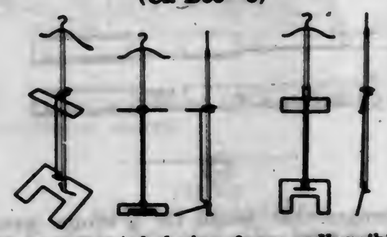
The ornamental design for a narrow embroidered trimming or the like, substantially as shown.

170,496
AIR CONDITIONER CASING
Philip S. Egan, Evanston, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application April 8, 1953, Serial No. 24,468
Term of patent 3½ years
(Cl. D62—4)



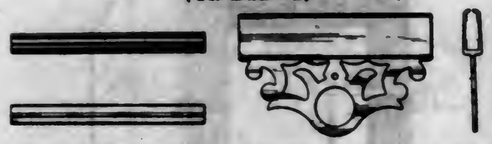
The ornamental design for an air conditioner casing, as shown and described.

170,497
COLLAPSIBLE VALET STAND
Ernest W. Ehrman, New York, N. Y.
Application December 5, 1952, Serial No. 22,576
Term of patent 3½ years
(Cl. D32—8)



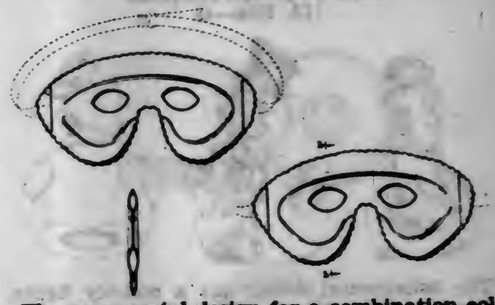
The ornamental design for a collapsible valet stand, as shown.

170,498
WINDOW SHADE COMBINED GUARD AND HANDLE
Theodore L. Feinberg, Chicago, Ill., assignor to J. & S. Manufacturing Co., Chicago, Ill.
Application April 23, 1953, Serial No. 24,642
Term of patent 14 years
(Cl. D21—1)



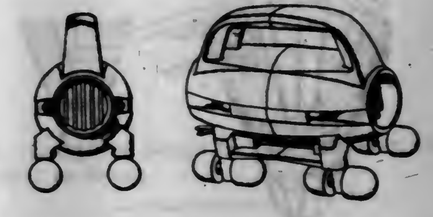
The ornamental design for a window shade combined guard and handle, substantially as shown.

170,499
COMBINATION COLD AND HOT PACK
Hugo Gloeckler, Flushing, N. Y.
Application October 17, 1952, Serial No. 21,874
Term of patent 14 years
(Cl. D32—1)



The ornamental design for a combination cold and hot pack, as shown and described.

170,500
VIBRATOR
Harry Raddon Greene, Pasadena, Calif., assignor to R. A. Fischer & Co., Glendale, Calif., a partnership
Application January 2, 1953, Serial No. 22,986
Term of patent 14 years
(Cl. D32—1)



The ornamental design for a vibrator, as shown.

170,501
CRIBBAGE BOARD
Bert V. Hare, Wenatchee, Wash.
Application June 12, 1953, Serial No. 25,470
Term of patent 3½ years
(Cl. D34—5)



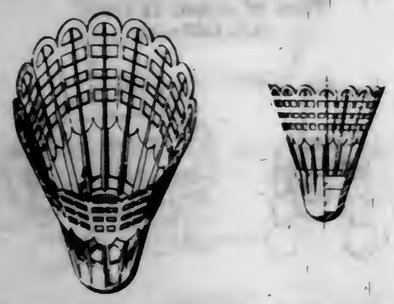
The ornamental design for a cribbage board, as shown.

170,502
COMEDY FIGURE
Ralph W. Kayser, Beverly Hills, Calif., assignor to Hy-G Products Co., Los Angeles, Calif.
Application April 27, 1953, Serial No. 24,696
Term of patent 3½ years
(Cl. D34—4)



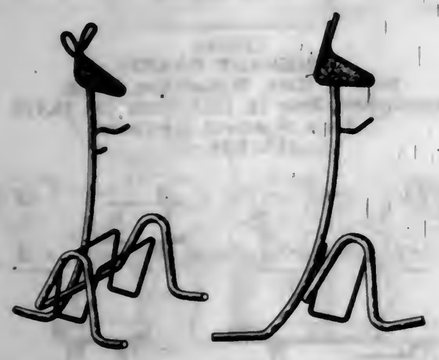
The ornamental design for a comedy figure, substantially as shown.

170,503
SHUTTLECOCK
Irving Lawner, East Rockaway, and Joseph Lipman, Kew Gardens, N. Y.
Application March 27, 1953, Serial No. 24,223
Term of patent 14 years
(Cl. D34—5)



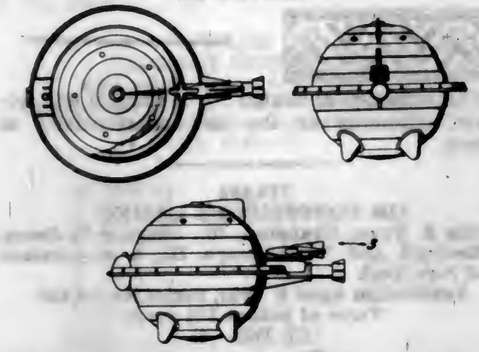
The ornamental design for a shuttlecock, substantially as shown and described.

170,504
COMBINED MEMO PAD AND PENCIL HOLDER
Edward B. Lee, Chicago, Ill., assignor of one-half to Merton Marks, Chicago, Ill.
Application May 1, 1953, Serial No. 24,792
Term of patent 14 years
(Cl. D74—1)



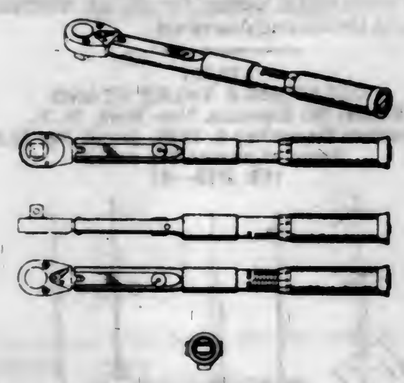
The ornamental design for a combined memo pad and pencil holder, substantially as shown and described.

170,505
TOY SAVINGS BANK OR SIMILAR ARTICLE
William C. Littlejohn, Los Angeles, Calif., assignor to Regis Plastics Corporation, Beverly Hills, Calif., a corporation of California
Application February 9, 1953, Serial No. 23,481
Term of patent 3½ years
(Cl. D34—11)



The ornamental design for a toy savings bank or similar article, substantially as shown.

170,506
TORQUE WRENCH
Frank W. Livermont, Duarte, Calif.
Application January 19, 1953, Serial No. 23,182
Term of patent 14 years
(Cl. D54—16)

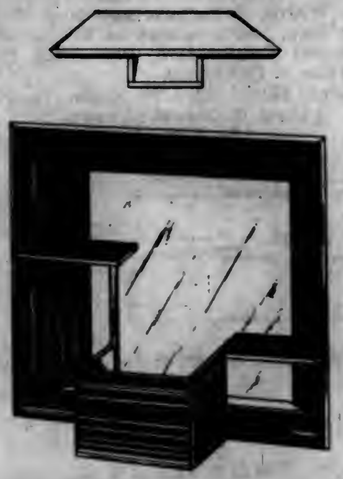


The ornamental design for a torque wrench, as shown and described.

170,507
SHADOW BOX
Edward E. Mecus, Milwaukee, Wis., assignor to Dexter-Mahnke, Inc., Milwaukee, Wis., a corporation of Wisconsin
Application November 16, 1951, Serial No. 17,450
Term of patent 2½ years
(Cl. D29—20)

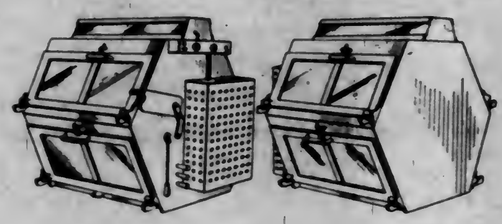


170,507—Continued



The ornamental design for a shadow box, substantially as shown and described.

170,508
BARBECUE OR SIMILAR ARTICLE
Jules Nissensen, Croton-on-Hudson, N. Y.
Application March 21, 1953, Serial No. 18,990
Term of patent 14 years
(Cl. D61—10)



The ornamental design for a barbecue or similar article as shown.

170,509
HALTER BRASSIÈRE
Mary F. Peck, Evanston, Ill., assignor to The H. W. Gossard Co., Chicago, Ill., a corporation of Illinois
Application March 18, 1953, Serial No. 24,062
Term of patent 3½ years
(Cl. D20—4)



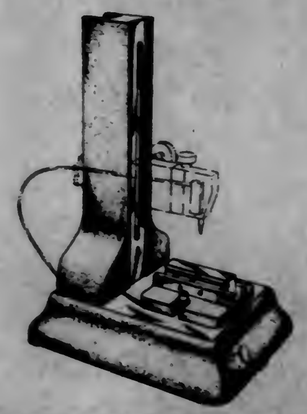
The ornamental design for a halter brassière, substantially as shown.

170,510
COFFEE MAKER
Samuel J. Popell, Chicago, Ill.
Application December 6, 1952, Serial No. 22,584
Term of patent 3½ years
(Cl. D44—26)



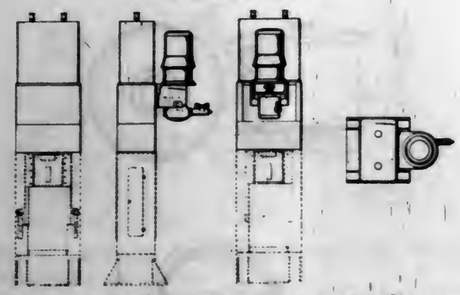
The ornamental design for a coffee maker, substantially as shown.

170,511
ELECTRONIC COMPARATOR OR THE LIKE
Richard E. Reeger, Mayfield Heights, Ohio, assignor to Cleveland Instrument Company, a corporation of Ohio
Application March 28, 1952, Serial No. 19,063
Term of patent 14 years
(Cl. D52—1)



The ornamental design for an electronic comparator or the like, substantially as shown and described.

170,512
HYDRAULIC PRESS
Robert K. Sedgwick, Cincinnati, Ohio, assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application December 26, 1951, Serial No. 17,821
Term of patent 14 years
(Cl. D63—1)



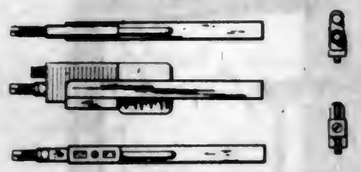
The ornamental design for a hydraulic press, substantially as shown and described.

170,513
SHOE OR THE LIKE
Henriette Simon, New York, N. Y.
Application April 16, 1953, Serial No. 24,530
Term of patent 3½ years
(Cl. D7—7)



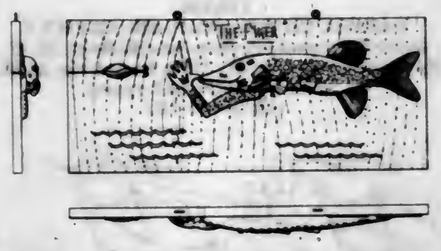
The ornamental design for a shoe or the like, substantially as shown and described.

170,514
GALVANOMETER
Frank T. Wahb, Pasadena, and Roy T. Heath, Temple City, Calif., assignors to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California
Application March 23, 1953, Serial No. 24,175
Term of patent 14 years
(Cl. D52—1)



The ornamental design for a galvanometer, as shown.

170,515
WALL PLAQUE
Fred W. White, Cheboygan, Mich.
Application May 29, 1953, Serial No. 25,241
Term of patent 7 years
(Cl. D29—23)



The ornamental design for a wall plaque, as shown.





October 6, 1953 Volume 675 Number 1

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

SINCLAIR WEEKS, *Secretary*

U. S. Patent Office

ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business Sept. 18, 1953

Total number of patent applications awaiting action, 102,493. Date of oldest new application, December 1, 1952; date of oldest amended application, November 25, 1952.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) BLUM, A. (Acting)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	1-2-53	1-2-53	1301
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	12-17-52	12-18-52	1233
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	1-22-53	1-22-53	1802
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	12-31-52	12-31-52	1540
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	1-9-53	1-7-53	984
6. SURLE, H., Carbon Chemistry (part)	12-1-52	11-25-52	2761
7. GONSALVES, J. E., Optics; Photography (part)	1-2-53	1-2-53	1722
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	1-12-53	1-14-53	1536
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	12-29-*2	1-2-53	1225
10. REYNOLDS, E. R. (NEFF, P. R., Acting), Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	1-19-53	1-23-53	1207
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	1-13-53	1-7-53	1207
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	12-23-52	12-21-52	1242
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	12-11-52	12-8-52	1270
14. MANIAN, J. C., Fluid Pressure Brake; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	1-14-53	1-5-53	1463
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	12-11-52	12-11-52	1680
16. LOVEWELL, N. N., Television; Telephony; Recorders	12-11-52	12-11-52	1617
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	12-29-52	12-30-52	1501
18. KURZ, J. A., Power Plants; Speed Responsive Devices	1-12-53	12-30-52	740
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	12-9-52	12-11-52	1166
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Sales; Canopies, Umbrellas and Canes.	1-19-53	1-14-53	1250
21. MADER, R. C., Textiles	12-19-52	12-19-52	1392
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	1-2-53	1-8-53	1038
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	12-10-52	12-9-52	977
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machine; Textiles, Ironing or Smoothing	2-24-53	2-24-53	1106
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	12-12-52	12-10-52	1248
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	1-19-53	1-19-53	1966
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	1-2-53	1-5-53	1206
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	1-5-53	1-19-53	1170
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	12-19-52	12-19-52	1051
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	3-3-53	3-3-53	1360
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	12-10-52	12-18-52	2526
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	1-23-53	1-23-53	1307
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	12-22-52	12-18-52	1907
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	12-17-52	12-17-52	1278
35. BROMLEY, E. D., Dispensing; Filling and Closing Portable Receptacles	2-2-53	2-2-53	1251
36. McFADYEN, A. D., Measuring and Testing	12-26-52	1-2-53	1133
37. LEVY, M. L., Electricity—Switches, Welding, Heating	1-23-53	1-27-53	1723
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	1-13-53	1-16-53	1534
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handing (part)	2-16-53	1-28-53	1588
40. DRUMMOND, E. J., Receptacles (part); Packages	4-1-53	4-1-53	916
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	1-13-53	1-12-53	1637

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors.	12-22-52	12-22-52	2164
43. KNIGHT, W. G. (Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	12-17-52	12-17-52	1886
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	1-5-53	1-7-53	1355
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	12-8-52	12-11-52	1171
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	12-26-52	12-22-52	1638
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	12-12-52	12-17-52	2196
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	1-2-53	1-5-53	1438
50. BENGEL, W. G., Synthetic Resins; Rubber	3-16-53	3-16-53	1744
51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics.	1-9-53	1-9-53	1666
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	1-30-53	1-29-53	1995
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	1-19-53	1-23-53	1027
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	12-23-52	12-23-52	1832
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	1-7-53	12-17-52	1007
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	2-6-53	1-26-53	1333
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	1-12-53	1-19-53	1786
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	12-18-52	12-22-52	1415
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	1-14-53	1-14-53	1411
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).	2-10-53	2-9-53	925
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	1-20-53	1-21-53	1170
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	12-18-52	12-18-52	2006
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	12-26-52	12-30-52	1713
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	1-e-53	1-8-53	835
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).	1-28-53	1-21-53	1608
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	1-26-53	1-19-53	1510
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	1-5-53	1-2-53	1765
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	12-1-52	11-28-52	3675
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Illumination			
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	4-22-53	5-12-53	1056
DESIGNS: A—BREHM, G. L., Industrial Arts	5-8-53	5-11-53	842
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts			

Number of new applications received week ending August 28, 1953

PATENTS 1,421 DESIGNS 78 REISSUES 1 TOTAL 1,500

Total number of trade-mark applications awaiting action (including renewals and republications), 11,045. Date of oldest new application, April 22, 1953; date of oldest amended application, April 22, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 38, 44, 51, 52	4-26-53	4-26-53	2773
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	4-22-53	4-22-53	2816
Renewals (All Classes)	7-17-53	8-10-53	371
Republications (All Classes)	7-14-53	9-1-53	248
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	4-27-53	4-30-53	2369
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29,46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107.	4-30-53	4-23-53	2466

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Agosta, Joseph, Astoria, N. Y. Antiseptic and medicated deodorant. Serial No. 643,807, Oct. 6. Class 18.

Ajax Engineering Corporation, Trenton, N. J. Induction furnaces. Serial No. 637,979, Oct. 6. Class 21.

Aldens, Inc., Chicago, Ill. Bed sheeting, upholstery fabrics, bed sheets, etc. Serial No. 645,687, Oct. 6. Class 42.

Alfa Romeo Societa per Azioni, Milan, Italy. Car bodies, motor cars, motor cycles, etc. Serial No. 646,098, Oct. 6. Class 19.

American Chemical Paint Company, Ambler, Pa. Lubricants. Serial No. 644,707, Oct. 6. Class 15.

American Home Products Corporation, New York, N. Y., doing business as Wyeth Laboratories, Division of American Home Products Corporation, Philadelphia, Pa. Sodium polyanhydromannuronic acid sulfate. Serial No. 644,273, Oct. 6. Class 18.

American Home Products Corporation, New York, N. Y., doing business as Wyeth Laboratories, Division of American Home Products Corporation, Philadelphia, Pa. Antacid preparation. Serial No. 644,660, Oct. 6. Class 18.

American Laundry Machinery Company, The, assignee: *See*—
Martin, J. E., Equipment Corporation.

American Lubricants Co., The, Dayton, Ohio. Lubricating grease containing molybdenum. Serial No. 614,923, Oct. 6. Class 15.

Apothecaries Hall Company, Waterbury, Conn. Expendable anodes. Serial No. 638,050, Oct. 6. Class 14.

Arachem Products, San Diego and East San Diego, Calif. Soil conditioners and fertilizers. Serial No. 646,041, Oct. 6. Class 10.

Arkwright Merchandising Corporation, New York, N. Y. Blankets, bed sheets, cotton and linen sheeting, pillow cases and towels. Serial No. 643,531, Oct. 6. Class 42.

Art-Cement Manufacturing Co., Miami, Fla. Finishing cement paint. Serial No. 620,293, Oct. 6. Class 16.

Art-Lloyd Metal Products Corp., Brooklyn, N. Y. Combination utility table and cabinet. Serial No. 595,703, Oct. 6. Class 32.

Arwood Precision Casting Corp., The, Brooklyn, N. Y. Metal castings. Serial No. 643,886, Oct. 6. Class 14.

Atkinson-Davis Corporation, Claremont, N. H. Furniture. Serial No. 641,595, Oct. 6. Class 32.

Bancroft, Joseph, & Sons Co., Wilmington, Del. Fabrics. Serial No. 646,978, Oct. 6. Class 42.

Bauer Alphabets Inc., New York, N. Y. Printing type. Serial No. 644,275, Oct. 6. Class 14.

Baxter, Don, Inc., Glendale, Calif. Solutions of dextrose or other preservatives for storing plasma, serum, or other blood products. Serial No. 620,567, Oct. 6. Class 18.

Baxter Laboratories, Inc., Morton Grove, Ill. Solutions of dextrose or other preservatives for storing plasma, serum, or other blood products. Serial No. 620,577, Oct. 6. Class 18.

Bell & Howell Company, Chicago, Ill. Motion picture projectors. Serial No. 643,938, Oct. 6. Class 26.

Belleville Shoe Manufacturing Company, Belleville, Ill. Hunting boots. Serial No. 644,383, Oct. 6. Class 39.

Bermuda Knitwear Corp., New York, N. Y. Ladies' knitted sweaters, suits, skirts and blouses. Serial No. 637,745, Oct. 6. Class 39.

Bernard Pharmacal Co., Inc., New York, N. Y. Multiple vitamin preparation. Serial No. 610,612, Oct. 6. Class 18.

Blevins Popcorn Company: *See*—
Blevins Popcorn Company, Inc.

Blevins Popcorn Company, Inc., doing business as Blevins Popcorn Company, Nashville, Tenn. Unpopped popcorn, oil to be used in popping corn, salt and artificial-butter-flavored salt. Serial No. 612,114, Oct. 6. Class 46.

Bourjois, Inc., New York, N. Y. Perfume, cologne and cologne stick. Serial No. 645,384, Oct. 6. Class 51.

Bromfield, Louis: *See*—
Geld, Ellen B.

Cabot, Godfrey L., Inc., Boston, Mass. Clays. Serial No. 641,713, Oct. 6. Class 1.

California Wire Cloth Corporation, The, Oakland, Calif., assignor to The Colorado Fuel and Iron Corporation, Denver, Colo. Single-stranded wire. Serial No. 618,443, Oct. 6. Class 14.

Candle-Lite, Inc., Cincinnati, Ohio. Candles. Serial No. 641,012, Oct. 6. Class 15.

Cedar Shoe Company, Cedarburg, Wis. Children's shoes. Serial No. 627,807, Oct. 6. Class 39.

Central Television Service Inc., Chicago, Ill. Television installation and repair services. Serial No. 634,631, Oct. 6. Class 103.

Circofire Spark Plug Company, Hamtramck, Mich. Spark plugs. Serial No. 620,591, Oct. 6. Class 21.

Clipper Manufacturing Company, Kansas City, Mo. Cutting blades. Serial No. 644,735, Oct. 6. Class 23.

Coats & Clark Inc., New York, N. Y. Thread. Serial No. 646,456, Oct. 6. Class 43.

Cohen, Harry A., West Berlin, N. J. Automobiles. Serial No. 574,896, Oct. 6. Class 19.

Colgate-Palmolive-Peet Company, Jersey City, N. J. After shave lotion. Serial No. 638,835, Oct. 6. Class 51.

College Town Sportswear, Boston, Mass. Skirts, culottes, jackets, etc. Serial No. 642,524, Oct. 6. Class 39.

Collins, Lee Company, Chelsea, Mass. Fresh fish, salted fish, frozen fish, etc. Serial No. 641,126, Oct. 6. Class 46.

Colorado Fuel and Iron Corporation, The, assignee: *See*—
California Wire Cloth Corporation, The.

Columbus Auto Parts Company, The, Columbus, Ohio. Vehicular steering connections. Serial No. 634,730, Oct. 6. Class 19.

Colvilles Limited, Glasgow, Scotland. Metal plates, sections or bars, and metal tubing stock. Serial No. 633,753, Oct. 6. Class 14.

Cornell Seed Company, St. Louis, Mo. Garden and field seeds and bulbs. Serial No. 636,346, Oct. 6. Class 1.

Courtaulds Limited, London, England. Woven bolting cloth. Serial No. 647,268, Oct. 6. Class 42.

Cranguyma Farms Products: *See*—
Myers, Guy C.

Crown Zellerbach Corporation, doing business as The National Paper Products Co., and Nata Products Company, San Francisco, Calif. Paper towels. Serial No. 542,007, Oct. 6. Class 37.

Crucible Steel Company of America, New York, N. Y. Steel bars, rods, billets, blooms, etc. Serial No. 636,881, Oct. 6. Class 14.

D. F. O. K. Lynfrost A/S, Esbjerg, Denmark. Fresh frozen flounder and haddock fillets. Serial No. 631,094, Oct. 6. Class 46.

Danenberg, Danny: *See*—
Danenberg, J. S.

Danenberg, J. S., doing business as Danny Danenberg, El Centro, Calif. Fresh vegetables. Serial No. 633,715, Oct. 6. Class 46.

David, Edward A., New York, N. Y. Women's and misses' wash dresses. Serial No. 546,960, Oct. 6. Class 39.

Davis, J. E., Philadelphia, Pa. X-ray screens. Serial No. 643,895, Oct. 6. Class 26.

Deering, Milliken & Co., Inc., New York, N. Y. Men's, women's and children's outergarments. Serial No. 639,317, Oct. 6. Class 39.

Denkert Incorporated, Johnstown, N. Y. Fielders' gloves, catchers' mitts, basemen's mitts, etc. Serial No. 647,486, Oct. 6. Class 22.

Digby Products Ltd., White Plains, N. Y. Leather loose leaf binders, removable ring binders and loose leaf books. Serial No. 600,037, Oct. 6. Class 37.

Dokeris and Argyris, Corona, N. Y. Correspondence envelopes. Serial No. 634,076, Oct. 6. Class 37.

Dorman, N., & Co., Inc. (N. Y.), New York, N. Y. Cheese. Serial No. 645,786, Oct. 6. Class 46.

Driver, Wilbur B., Company, Newark, N. J. Rod and wire formed of nickel-iron alloys. Serial No. 635,747, Oct. 6. Class 14.

Druckerman, Ben, & Company, Inc., New York, N. Y. Linen fabrics. Serial No. 640,787, Oct. 6. Class 42.

Eclipse Sleep Products Inc., Brooklyn, N. Y. Couch beds. Serial No. 644,834, Oct. 6. Class 32.

Edwards, J. & Co., assignor to J. Edwards & Co., Inc., Philadelphia, Pa. Women's, misses', children's, infants', and babies' shoes. Serial No. 644,104, Oct. 6. Class 39.

Edwards, J., & Co., Inc., assignee: *See*—
Edwards, J., & Co.

Elliott Paint & Varnish Company, Chicago, Ill. Ready-mixed paint and liquid paint enamel. Serial No. 645,472, Oct. 6. Class 16.

Emhart Manufacturing Company, Hartford, Conn. Dicing machinery. Serial No. 618,157, Oct. 6. Class 23.

Endicott Johnson Corporation, Endicott, N. Y. Shoes and also for leather insoles. Serial No. 641,373, Oct. 6. Class 39.

Enzrust Co.: *See*—
Price, Burton S.

Facile Corporation, Paterson, N. J. Metallic yarn. Serial No. 643,759, Oct. 6. Class 43.

Ford Motor Company Limited, London, England. Passenger automobiles and structural parts thereof. Serial No. 635,642, Oct. 6. Class 19.

Foster, Edwin D., New York, N. Y. Porous paper bags for filtering and collecting dust in vacuum cleaners. Serial No. 586,596, Oct. 6. Class 31.

Fratelli Reguitti S. R. L., Agnosine, Brescia, Italy. Skirt hangers and coat hangers. Serial No. 631,924, Oct. 6. Class 50.

Garcia & Vega, Inc., New York, N. Y. Cigars. Serial No. 644,972, Oct. 6. Class 17.

Geld, Ellen B., assignor to L. Bromfield, Lucas, Ohio. Wild blackberry jelly, marmalade, peach butter, etc. Serial No. 635,086, Oct. 6. Class 46.

General Shoe Corporation, Nashville, Tenn. Shoes. Serial No. 644,979, Oct. 6. Class 39.

General Tire & Rubber Company, The, Akron, Ohio. Rubber-to-fabric latex dips and rubber, plastic, and resin adhesive dispersions and solutions. Serial No. 644,231, Oct. 6. Class 5.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Printers' blankets. Serial No. 582,299, Oct. 6. Class 50.

Gulf Oil Corporation, Pittsburgh, Pa. Insecticides. Serial No. 646,127, Oct. 6. Class 6.

Hendirin Company: *See*—
Hendler, Maurice A.

Hendler, Maurice A., doing business under the name Hendirin Company, Los Angeles, Calif. Aspirin tablets. Serial No. 642,551, Oct. 6. Class 18.

Huyck, F. C., & Sons, Rensselaer and Albany, N. Y. Blankets, automobile and lap robes, steamer rugs, etc. Serial No. 634,850, Oct. 6. Class 42.

Illinois Testing Laboratories, Inc., Chicago, Ill. Electrical temperature measuring instruments and parts thereof. Serial No. 620,542, Oct. 6. Class 26.

Inland Steel Company, Chicago, Ill. Steel. Serial No. 630,846, Oct. 6. Class 14.

Insecticides Company, Nashville, Tenn. Insecticides, fungicides. Serial No. 644,120, Oct. 6. Class 6.

Institute of Radio Engineers, Inc., The, New York, N. Y. Establishment and maintenance of membership in an international technical society. Serial No. 632,479, Oct. 6. Class 100.

Inter-Coastal Paint Corporation, East St. Louis, Ill. Chemical product for removing rust and scale from metal surfaces. Serial No. 640,277, Oct. 6. Class 52.

Irwin, Neisler & Company, Decatur, Ill. Tablets for the treatment of hypertension. Serial No. 644,758, Oct. 6. Class 18.

Jackson-Wheeler Metals Service, Inc., Brooklyn, N. Y. Brazing metal alloys, bearing metal alloys, babbitt metals, etc. Serial No. 629,438, Oct. 6. Class 14.

Johns-Manville Corporation, New York, N. Y. Automotive brake blocks. Serial No. 627,512, Oct. 6. Class 19.

K & L Auto Upholstering Company, Washington, D. C. Textile fabrics. Serial No. 645,897, Oct. 6. Class 42.

Kahn, David, Inc., North Bergen, N. J. Cartridge refills for ball-point pens and for writing ink. Serial No. 608,359, Oct. 6. Class 11.

Kahn, David, Inc., North Bergen, N. J. Writing ink. Serial No. 635,656, Oct. 6. Class 11.

Kali Manufacturing Co., Philadelphia, Pa. Cleaning fluids, and soap. Serial No. 625,314, Oct. 6. Class 52.

Kaufman Knitting Company, Minneapolis, Minn. Ladies', girls' and children's sweaters, skirts, blouses, etc. Serial No. 607,333, Oct. 6. Class 39.

Kentile, Inc., Brooklyn, N. Y. Adhesive. Serial No. 639,175, Oct. 6. Class 5.

Kirkman Pharmacal Co., Seattle, Wash. Medicinal preparation. Serial No. 644,323, Oct. 6. Class 18.

Lando Products, Inc., San Francisco, Calif. Venetian blind components. Serial Nos. 624,239–40, Oct. 6. Class 14.

Le Anne Products: *See*—
Le Anne Toiletries.

Le Anne Toiletries, also trading as Le Anne Products, Syracuse, N. Y. Toiletries. Serial No. 631,742, Oct. 6. Class 51.

Lichtman, Marian V., doing business as Marlite Co., Queens Village, N. Y. Utility, kitchen, and bathroom cabinets. Serial No. 645,653, Oct. 6. Class 32.

Lifeguard Products Limited, London, England. Preparations in paste form for cleaning and polishing windows. Serial No. 608,612, Oct. 6. Class 4.

Lindfelt Glove Manufacturing Co., Des Moines, Iowa. Handball gloves, golf gloves, skiing gloves, etc. Serial No. 643,693, Oct. 6. Class 22.

Linnea Perfumes, Inc., Chicago, Ill. Liquid shampoo. Serial No. 640,128, Oct. 6. Class 52.

Lipton, Thomas J., Inc., Hoboken, N. J. Soup mixes. Serial No. 647,082, Oct. 6. Class 46.

Locaters, Incorporated, The, Minneapolis, Minn. Broking of real estate and businesses. Serial No. 641,624, Oct. 6. Class 102.

London Character Shoes Corporation, New York, N. Y. Shoes. Serial No. 644,125, Oct. 6. Class 39.

Long, W. E., Co., The, Chicago, Ill. Bread. Serial Nos. 634,148–9, Oct. 6. Class 46.

Lowenbaum, R., Manufacturing Co., St. Louis, Mo. Photographic projectors and projection screens. Serial No. 643,912, Oct. 6. Class 26.

Lowenstein, M., & Sons, Inc., New York, N. Y. Piece goods. Serial No. 640,288, Oct. 6. Class 42.

Lucky Tiger Manufacturing Co., Kansas City, Mo. Hair dressing and conditioner. Serial No. 645,997, Oct. 6. Class 51.

MacArthur, Arthur R., doing business under the name and style of MacArthur Farms, Janesville, Wis. Fur pelts. Serial No. 638,803, Oct. 1. Class 1.

MacArthur Farms: *See*—
MacArthur, Arthur R.

Maine Potato Growers, Inc., Presque Isle, Maine. Automobiles, trucks, trailers, etc. Serial No. 610,371, Oct. 6. Class 19.

Makowsky, Jacques, Pomfret Center, Conn. Dressed poultry. Serial No. 644,507, Oct. 6. Class 46.

Manufactures de Senones (Vosges) Société à Responsabilité Limitée, Paris, France. Junior misses', misses' and ladies' coats, dresses, gowns, etc. Serial No. 626,395, Oct. 6. Class 39.

Marlite Co.: *See*—
Lichtman, Marian V.

Marshall, Meadows & Stewart, Inc., Auburn, N. Y. Women's shoes. Serial No. 550,535, Oct. 6. Class 39.

Marshall-Wells Company, Duluth, Minn. Fishing lines, fishing rods and fishing reels. Serial No. 649,523, Oct. 6. Class 22.

Martin Equipment Corporation: *See*—
Martin, J. E., Equipment Corporation.

Martin, J. E., Equipment Corporation, Buffalo, N. Y., now by change of name, Martin Equipment Corporation, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Dry-cleaning machines. Serial No. 617,090, Oct. 6. Class 24.

Maxwell Royal Chair Co. Inc., Hickory, N. C. Upholstered platform rockers. Serial No. 643,430, Oct. 6. Class 32.

McCabe, Inez T., doing business as John McCabe & Co., New York, N. Y. Carbon paper, typewriter ribbons, writing inks, and ink for pads. Serial No. 642,561, Oct. 6. Class 11.

McCabe, John, & Co.: *See*—
McCabe, Inez T.

McCarthy, Charles M., doing business under the name of "Prof. McCarthy," Miami, Fla. Sun tan oil. Serial No. 633,852, Oct. 6. Class 51.

"McCarthy, Prof.": *See*—
McCarthy, Charles M.

Merck & Co., Inc., Rahway, N. J. Antibiotics. Serial No. 642,235, Oct. 6. Class 18.

Merck & Co., Inc., Rahway, N. J. Combinations of antibiotics and hormonal substances for medicinal use. Serial Nos. 644,679–83, Oct. 6. Class 18.

Midvale Chemical Company, Lodi, N. J. Chemical preparation for control of chronic respiratory disease in chickens. Serial No. 644,330, Oct. 6. Class 18.

Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Temperature responsive electric resistors. Serial No. 629,379, Oct. 6. Class 26.

Monsanto Chemical Company, St. Louis, Mo. Synthetic resins. Serial No. 605,965, Oct. 6. Class 6.

Mooresville Mills, Inc., Mooresville, N. C. Piece goods. Serial No. 644,052, Oct. 6. Class 42.

Moran, Vic, Bradford, Pa. Toy coin banks. Serial No. 612,814, Oct. 6. Class 22.

Moss, William, & Sons Limited, London, England. Mobile work platforms. Serial No. 622,903, Oct. 6. Class 23.

Mother's Food Products, Inc., Newark, N. J. Sweet pickled pimentos. Serial No. 635,191, Oct. 6. Class 46.

Myers, Guy C., doing business as Cranguyma Farms Products, Long Beach, Wash. Cranberry jam and jelly and cranberry syrup. Serial No. 637,603, Oct. 6. Class 46.

Nata Products Company: *See*—
Crown Zellerbach Corporation.

National Paper Products Co., The: *See*—
Crown Zellerbach Corporation.

National Plastic Products Company, The, Odenton, Md. Furniture leg caps. Serial No. 645,052, Oct. 6. Class 32.

National Steel Corporation, Wilmington, Del., and Pittsburgh, Pa. Copper bearing ferrous base alloy sheets. Serial No. 633,373, Oct. 6. Class 14.

Nelson, Jimmy, Enterprises, Inc., Chicago, Ill. Ventriloquist dummies. Serial No. 649,321, Oct. 6. Class 22.

New River and Pocahontas Consolidated Coal Company, Philadelphia, Pa. Coal. Serial No. 636,375, Oct. 6. Class 1.

Niggi, A., & C., Imperia-Oneglia, Italy. Face powders, talcum powders, bath salts, etc. Serial No. 601,638, Oct. 6. Class 51.

Nobema Products Corporation, New York, N. Y. Water colors, oil colors, tempera colors, etc. Serial No. 607,184, Oct. 6. Class 16.

Nola, Frank M., doing business as Peter Nola & Son, San Jose, Calif. Fresh cherries. Serial No. 641,632, Oct. 6. Class 46.

Nola, Peter, & Son: *See*—
Nola, Frank M.

Nordberg Manufacturing Company, Milwaukee, Wis. Internal combustion power plants. Serial No. 604,102, Oct. 6. Class 23.

O. K. Ko-Op Rubber Welding System, Littleton, Colo. Tire recapping and retreading materials. Serial No. 646,007, Oct. 6. Class 35.

Paramount Paint & Lacquer Co., assignee: *See*—
Zolatone, Inc.

Penco Fabrics, Inc., New York, N. Y. Textile fabrics. Serial No. 645,829, Oct. 6. Class 42.

Pepperell Manufacturing Company, Boston, Mass. Bed sheets. Serial No. 623,069, Oct. 6. Class 42.

Perfection Frocks, Inc., New York, N. Y. Ladies' house dresses and aprons. Serial No. 644,501, Oct. 6. Class 39.

Perry Laboratories, Detroit, Mich. Tablets for the treatment of rheumatic disorders and sore muscles. Serial No. 644,344, Oct. 6. Class 18.

Personal Pencil Company, The: *See*—
Rich, Irving D.

Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Antibiotic preparation. Serial No. 645,182, Oct. 6. Class 18.

Phillips, Richard M., East Peoria, Ill. Chair of metal and canvas. Serial No. 645,335, Oct. 6. Class 32.

Phoenix Fuel Company, Louisville, Ky. Bituminous coal. Serial No. 643,115, Oct. 6. Class 1.

Pioneer Company, The, Chicago, Ill. Electric switch mechanism for switching tracks for model trains. Serial No. 620,551, Oct. 6. Class 22.

Prestressed Concrete Corporation, Kansas City, Mo. Constructing prestressed concrete structures of all types. Serial No. 603,164, Oct. 6. Class 103.

Price, Burton S., doing business as Ensrust Co., Newton, Mass. Concentrated heavy-duty cleaner, degreaser, etc. Serial No. 633,555, Oct. 6. Class 52.

Procter & Gamble Company, The, Cincinnati, Ohio. Shampoo. Serial No. 643,787, Oct. 6. Class 52.

Pure Oil Company, The, Chicago, Ill. Viscous mineral oil. Serial No. 644,788, Oct. 6. Class 15.

Puritan Piece Dye Works, Paterson, N. J. Viscose rayon, acetate rayon, nylon, wool, cotton, silk and saran spun fabrics. Serial No. 624,154, Oct. 6. Class 42.

Quincy Foundry, Inc., Quincy, Ohio. Metal castings. Serial No. 633,943, Oct. 6. Class 14.

Raney Catalyst Company, The: *See*—
Raney, Murray.

Raney, Murray, sometimes doing business as The Raney Catalyst Company, Chattanooga, Tenn. Catalyst. Serial No. 634,023, Oct. 6. Class 6.

Rice Growers Association of California, Sacramento, Calif. Packaged rice and rice bran oil meal. Serial No. 633,169, Oct. 6. Class 46.

Rich, Irving D., doing business as The Personal Pencil Company, New York, N. Y. Umbrellas. Serial No. 636,942, Oct. 6. Class 41.

Richfield Oil Corporation, Los Angeles, Calif. Petroleum products. Serial No. 625,921, Oct. 6. Class 15.

Radcraft Corporation, Gardena, Calif. House trailers. Serial No. 647,448, Oct. 6. Class 19.

Robinson, Frederick F., Danbury, Conn. Accounting and auditing services. Serial No. 636,034, Oct. 6. Class 101.

Rohlfs, Donald F., Bridgehampton, N. Y. Powder containing calcium hydroxide and thymol for use in pulp capping and cavity lining. Serial No. 642,168, Oct. 6. Class 44.

Rohm & Haas Company, Philadelphia, Pa. Insecticides, fungicides, and disinfectants. Serial No. 644,870, Oct. 6. Class 6.

Rubber and Plastics Compound Co., Inc., New York, N. Y. Protective material sold in sheet form composed of spun glass fibers, synthetic rubber fibers. Serial No. 637,952, Oct. 6. Class 1.

Rubinstein, Helena, Inc., New York, N. Y. Cigarette holders. Serial No. 634,548, Oct. 6. Class 8.

Rubinstein, Helena, Inc., New York, N. Y. Perfume and eau de parfum. Serial No. 644,872, Oct. 6. Class 51.

Ryerson, Joseph T., & Son, Inc., Chicago, Ill. Alloy steel. Serial Nos. 637,002–3, Oct. 6. Class 14.

Ryerson, Joseph T., and Son, Inc., Chicago, Ill. Tool steel. Serial No. 637,004, Oct. 6. Class 14.

Sanders, George S., assignor to Sanders & Steinberg, New York, N. Y. Face make-up ensemble. Serial No. 630,963, Oct. 6. Class 51.

Sanders & Steinberg, assignee: *See*—
Sanders, George S.

Sayles Finishing Plants, Inc., Saylesville, R. I. and New York, N. Y. Applying a glazed finish which endures through repeated laundering to fabrics furnished by others. Serial No. 636,036, Oct. 6. Class 106.

Schenley Laboratories, Inc., New York, N. Y. Somnifacient product. Serial No. 644,459, Oct. 6. Class 18.

Sears, Roebuck and Co., Chicago, Ill. Corsetry. Serial No. 623,735, Oct. 6. Class 39.

Shasta Water Company, The, San Francisco, Calif. Sparkling water, and non-alcoholic, maltless beverages. Serial No. 641,337, Oct. 6. Class 45.

Shoe Corporation of America, Columbus, Ohio. Men's, women's and children's bowling shoes, football shoes, baseball shoes, etc. Serial No. 629,960, Oct. 6. Class 39.

Silcrest Company, The, Wausau, Wis. Millwork and particularly doors and door frames, etc. Serial No. 625,080, Oct. 6. Class 12.

Sineath, Clifton L., Saluda, S. C. Liniment. Serial No. 646,495, Oct. 6. Class 18.

Smith, X. S., Inc., Red Bank, N. J. Pads formed of metallic filaments for garment pressing machines. Serial Nos. 639,847–8, Oct. 6. Class 24.

Soldwedel, F. H., Co., Pekin, Ill. Frozen desserts. Serial No. 634,277, Oct. 6. Class 46.

Steelcote Manufacturing Company, St. Louis, Mo. Rubber base paint. Serial No. 617,563, Oct. 6. Class 16.

Stern Brothers, New York, N. Y. Living room furniture, bedroom furniture, dining room furniture, etc. Serial No. 639,500, Oct. 6. Class 32.

Steuerman, Sergey, New York, N. Y. Compaction of soils for foundation and construction purposes. Serial No. 631,222, Oct. 6. Class 103.

Stone-Tarlow Co., Inc., Brockton, Mass. Men's shoe. Serial No. 637,729, Oct. 6. Class 39.

Sun Rubber Company, The, Barberton, Ohio. Dolls. Serial No. 646,901, Oct. 6. Class 22.

Sun Rubber Company, The, Barberton, Ohio. Dolls. Serial No. 646,905, Oct. 6. Class 22.

Taylor Freezer Corporation, Rockton, Ill. Ice cream freezers and parts thereof. Serial No. 604,887, Oct. 6. Class 31.

Tilton Industries, Inc., Montpelier, Vt. Safety pins. Serial No. 644,696, Oct. 6. Class 40.

Underwood, John, & Co., New York, N. Y. Typewriter ribbons. Serial Nos. 645,354–5, Oct. 6. Class 11.

United Elastic Corporation, Easthampton, Mass. Elastic fabrics. Serial No. 625,774, Oct. 6. Class 42.

United Elastic Corporation, Easthampton, Mass. Narrow elastic webbing. Serial No. 633,797, Oct. 6. Class 42.

United Elastic Corporation, Easthampton, Mass. Wide elastic fabrics. Serial No. 633,798, Oct. 6. Class 42.

United States Tobacco Company, Flemington, N. J., and New York, N. Y. Snuff. Serial No. 598,128, Oct. 6. Class 17.

Vacuum Metals Corporation, Cambridge, Mass. Nickel and nickel alloys. Serial No. 644,145, Oct. 6. Class 14.

Van Yperen, Thomas, & Co., Fairlawn, N. J. Marine type paints and varnishes. Serial No. 642,431, Oct. 6. Class 16.

Venus Foundation Garments, Inc., Chicago, Ill. Girdles, panty girdles, corselettes, etc. Serial No. 643,451, Oct. 6. Class 39.

Virginia-Carolina Chemical Corporation, Richmond, Va. Synthetic detergent. Serial No. 618,418, Oct. 6. Class 52.

Vix Laboratories, Inc., New York, N. Y. Facial cream. Serial No. 631,954, Oct. 6. Class 51.

Wellco Shoe Corporation, Waynesville, N. C. Shoes, sandals, and soles. Serial No. 644,203, Oct. 6. Class 39.

Wells Manufacturing Corporation, Fond du Lac, Wis. Automotive ignition replacement parts. Serial No. 633,187, Oct. 6. Class 21.

West Disinfecting Company, Long Island City, N. Y. Chemical compositions. Serial No. 646,184, Oct. 6. Class 6.

West Disinfecting Company, Long Island City, N. Y. Liquid insecticide. Serial No. 646,185, Oct. 6. Class 6.

Westex Boot and Shoe Company, Inc., Wichita Falls, Tex. Particular type of boot toes. Serial No. 627,611, Oct. 6. Class 39.

Wheel Craft Corporation, Azusa, Calif. Aluminum castings. Serial No. 629,536, Oct. 6. Class 14.

Winn & Lovett Grocery Company, Jacksonville, Fla. Canned fruits and canned vegetables. Serial No. 639,093, Oct. 6. Class 46.

Winthrop-Stearns Inc., New York, N. Y. Decongestant, antihistaminic and antiseptic preparation. Serial No. 641,653, Oct. 6. Class 18.

Winthrop-Stearns Inc., New York, N. Y. Decongestant and vasoconstrictor preparation. Serial No. 641,755, Oct. 6. Class 18.

Wisconsin Tissue Mills, Menasha, Wis. Paper napkins. Serial No. 635,450, Oct. 6. Class 37.

Wyeth Laboratories, Division of American Home Products Corporation: *See*—
American Home Products Corporation.

Zildjian, Avedis Co., Quincy, Mass. Cymbals. Serial No. 635,077, Oct. 6. Class 36.

Zolatone, Inc., assignor to Paramount Paint & Lacquer Co., Los Angeles, Calif. Nitro-cellulose base multicolored lacquers. Serial No. 624,218, Oct. 6. Class 16.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Preparation for bathing and massaging the skin to aid in preventing bed sores, etc. 580,780, Oct. 6; Serial No. 635,867, published June 23, 1953. Class 18.

Acme Steel Company, Chicago, Ill. Floor plates and angle plates. 580,809, Oct. 6; Serial No. 638,824, published June 23, 1953. Class 12.

Adams, George, New York, N. Y. Bathing caps, bathing suits, and bathing slippers. 580,799, Oct. 6; Serial No. 637,978, published June 30, 1953. Class 39.

Adco Limited, London and Harpenden, England. Compost activators and accelerating materials and fertilising materials. 580,793, Oct. 6; Serial No. 637,102, published July 7, 1953. Class 10.

Aldens, Inc., Chicago, Ill. Sanitary napkins, sanitary belts, sanitary panties, etc. 580,882, Oct. 6; Serial No. 647,883. Class 44.

Allen Industries, Incorporated, Detroit, Mich. Rubber reinforced fibers. 580,671, Oct. 6; Serial No. 606,741, published May 19, 1953. Class 1.

Allen, Robert, Company, Minneapolis, Minn. Ladies' costume jewelry. 580,728, Oct. 6; Serial No. 627,239, published May 19, 1953. Class 28.

All-Sil Welding Metals, Inc., New York, N. Y. Metal cleaning preparations. 580,684, Oct. 6; Serial No. 614,918, published June 23, 1953. Class 52.

Altmann, Bernhard, Texas Corporation, The, San Antonio, Tex. Men's and women's sweaters. 580,816, Oct. 6; Serial No. 639,867, published June 30, 1953. Class 39.

American Cyanamid Company, New York, N. Y. Anticholinergic compound. 580,827, Oct. 6; Serial No. 640,770, published June 23, 1953. Class 18.

American Home Products Corporation: *See*—
Wyeth, John & Brother, Incorporated.

American Iron Works, Inc., East Grand Forks, Minn. Attachments adapted to be mounted upon the rear of grain combines. 580,674, Oct. 6; Serial No. 608,733, published Feb. 17, 1953. Class 23.

American Oil Company, Baltimore, Md. Gasoline, kerosene, lubricating oils, soluble oil, etc. 580,683, Oct. 6; Serial No. 613,662, published June 23, 1953. Class 15.

American Radiator & Standard Sanitary Corporation, New York, N. Y. Plastic wall tile. 580,757, Oct. 6; Serial No. 632,348, published June 16, 1953. Class 12.

Ames Supply Company, Chicago, Ill. Typewriter covers. 580,709, Oct. 6; Serial No. 622,879, published Apr. 28, 1953. Class 23.

Ami Company: *See*—
Amigone, Joseph N.

Amigone, Joseph N., doing business under the name Ami Company, Buffalo, N. Y. Combination hand tool. 580,785, Oct. 6; Serial No. 636,266, published Apr. 14, 1953. Class 23.

Anchor Packing Company, The: *See*—
Ungarische Gummiwaarenfabriks Actiengesellschaft.

Antell, Carol, Inc., New York, N. Y. Costume jewelry and ornaments. 580,723, Oct. 6; Serial No. 627,032, published May 19, 1953. Class 28.

Antell, Charles, Inc., Baltimore, Md. Shampoo. 580,789, Oct. 6; Serial No. 636,760, published July 7, 1953. Class 52.

Archer-Daniels-Midland Company, Minneapolis, Minn., and Cleveland, Ohio. Fatty alcohols. 580,747, Oct. 6; Serial No. 631,139, published July 7, 1953. Class 6.

Arden, Elizabeth, Inc., to Elizabeth Arden Sales Corporation, New York, N. Y. Preparation for removing superfluous hair. 308,048, renewed Nov. 21, 1953. O. G. Oct. 6. Class 51.

Arden, Elizabeth, Sales Corporation: *See*—
Arden, Elizabeth, Inc.

Armour and Company, assignee: *See*—
Lookout Oil and Refining Company.

Astrup Company, The, Cleveland, Ohio. Lateral awning arms. 305,957, renewed Aug. 29, 1953. O. G. Oct. 6. Class 13.

Ateliers de la Motobecane, Pantin (Seine), France. Motorcycles. 580,688, Oct. 6; Serial No. 617,072, published July 7, 1953. Class 19.

Attorney General of the United States, Office of Alien Property, Department of Justice, Washington, D. C. Seasoning. 580,656, Oct. 6; Serial No. 587,461, published July 7, 1953. Class 46.

Austin, J. H., Company: *See*—
Austin, James H.

Austin, James H., doing business as J. H. Austin Company, Charlotte, N. C. Vitamin preparation. 580,770, Oct. 6; Serial No. 634,362, published June 23, 1953. Class 18.

Babcock, V. S., doing business as V. S. Babcock Sales Co., San Francisco, Calif. Pest control pads—namely, chemically treated pads for killing insects. 580,741, Oct. 6; Serial No. 630,570, published July 7, 1953. Class 6.

Babcock, V. S., Sales Co.: *See*—
Babcock, V. S.

Bailey, Joe W., doing business under the name of Lamb's Lan-O-Lin Laboratory, Buffalo, N. Y. Preparation for setting the hair, conditioning the scalp, etc. 580,765, Oct. 6; Serial No. 633,730, published June 30, 1953. Class 51.

Baldwin, Henry W., doing business as Baldwin Laboratories, Saegertown, Pa., to Boyle-Miday Inc., New York, N. Y. Insecticide and fly killer. 307,299, renewed Oct. 24, 1953. O. G. Oct. 6. Class 6.

Baldwin Laboratories: *See*—
Baldwin, Henry W.

Bancroft, Joseph, & Sons, Co., Wilmington, Del. Window shade fabrics. 304,828, renewed July 18, 1953. O. G. Oct. 6. Class 42.

Barbara Diane, New York, N. Y. Insulated heat-retaining baby-bottle zipper bags. 580,832, Oct. 6; Serial No. 641,540, published July 7, 1953. Class 2.

Basic Publications, Inc., New York, N. Y. Magazine. 435,391, Dec. 23, 1947. Republished Oct. 6. Class 38.

Beckerman, M., & Sons, Inc., New York, N. Y. Women's shoes. 580,877, Oct. 6; Serial No. 636,2770. Class 39.

Begle, Howell E., doing business under the name and style of Detroit Milling Cutter Company, Farmington, Mich. Milling machine accessories. 580,742, Oct. 6; Serial No. 630,5772, published Apr. 28, 1953. Class 23.

Benevim Corporation, New York, N. Y. Vitaminized iron tonic. 580,718, Oct. 6; Serial No. 625,654, published June 23, 1953. Class 18.

Bensdorp N. V., Bussum, Netherlands. Cocoa. 580,682, Oct. 6; Serial No. 613,154, published July 7, 1953. Class 46.

Biddle Purchasing Company, trading as Meridian Distributors, New York, N. Y. Canned tuna fish, sardines, and kippered herrings. 580,751, Oct. 6; Serial No. 631,785, published May 26, 1953. Class 46.

Biddle Purchasing Company, trading as Meridian Distributors, New York, N. Y. Vacuum bottles. 580,797, Oct. 6; Serial No. 637,814, published July 7, 1953. Class 2.

Bieringer-Hanauer Co., Boston, Mass. Cigars. 580,873, Oct. 6; Serial No. 634,571. Class 17.

Binswanger & Co., Incorporated, Richmond, Va. Patterned architectural glass. 580,759, Oct. 6; Serial No. 632,592, published May 26, 1953. Class 33.

Black & Decker Manufacturing Company, The, Towson, Md. Electric portable valve seat grinders and parts thereof. 306,961, renewed Oct. 10, 1953. O. G. Oct. 6. Class 21.

Black Flag Company, The, Baltimore, Md., to Boyle-Midway Inc., New York, N. Y. Hand sprays. 307,464, renewed Oct. 24, 1953. O. G. Oct. 6. Class 23.

Blackstone Remedies Co., to Whitehall Pharmacal Company, New York, N. Y. Headache powders. 306,659, renewed Sept. 26, 1953. O. G. Oct. 6. Class 18.

Blakeslee, G. S., & Co., Cicero, Ill. Solvents. 304,878, renewed July 18, 1953. O. G. Oct. 6. Class 52.

Booth Radio & Television Stations, Inc., Detroit, Mich. Radio program broadcasting. 580,854, Oct. 6; Serial No. 627,800, published July 7, 1953. Class 104.

Borden Company, The, New York, N. Y. Epoxide resin for glues. 580,834, Oct. 6; Serial No. 642,342, published July 7, 1953. Class 5.

Bourjois, Inc., New York, N. Y. Powder puffs. 308,895, renewed Dec. 26, 1953. O. G. Oct. 6. Class 29.

Boyle-Midway Inc.: *See*—
Baldwin, Henry W.
Black Flag Company, The.
United Supply Company.

Broadcast Music, Inc., New York, N. Y. Calibrated rule. 580,804, Oct. 6; Serial No. 638,409, published June 30, 1953. Class 26.

Brooklyn Union Coal Company, Inc., Brooklyn, N. Y. Coal. 530,638, Sept. 12, 1950. Canceled Aug. 21, 1953. O. G. Oct. 6. Class 1.

Brooks Paper Company, St. Louis, Mo. Comminuted scrap material to be used as an additive ingredient for incorporation in drilling muds for oil wells, etc. 580,677, Oct. 6; Serial No. 610,507, published June 23, 1953. Class 12.

Burrough, James, Limited, London, England. Gin. 308,053, renewed Nov. 21, 1953. O. G. Oct. 6. Class 49.

California Wine Association: *See*—
Fruit Industries, Ltd.

Campana Corporation, Batavia, Ill. Lipstick and make-up preparations. 416,326, Sept. 4, 1945. Republished Oct. 6. Class 51.

Champion Paper and Fibre Company, The, Hamilton, Ohio. Mineral coated paper, etc. 504,285, Nov. 30, 1948. Canceled Aug. 28, 1953. O. G. Oct. 6. Class 37.

Chapa, Frank A., San Antonio, Tex., by The Dr. J. H. McLean Medicine Company, St. Louis, Mo. Remedial agent for stomach and muscular troubles. 64,451, Aug. 6, 1907. Republished Oct. 6. Class 18.

Chase Groves, Inc.: *See*—
Chase Investment Company.

Chase Investment Company, to Chase Groves, Inc., Sanford, Fla. Fresh citrus fruits. 306,361, renewed Sept. 19, 1953. O. G. Oct. 6. Class 46.

Cheatham Chemical Company, Atlanta, Ga. Perfumes, bay rum, hair dressings, etc. 580,775, Oct. 6; Serial No. 635,348, published July 7, 1953. Class 51.

Chemische Forschungsgesellschaft m. b. H., Munich, Bavaria, Germany. Polyvinyl alcohol. 580,830, Oct. 6; Serial No. 641,247, published July 7, 1953. Class 6.

Chipman Knitting Mills, Easton, Pa. Hosiery. 580,868–9, Oct. 6; Serial Nos. 633,566–7. Class 39.

Clyserol Laboratories, Inc., Oklahoma City, Okla. Liquid enema solution. 580,790, Oct. 6; Serial No. 636,839, published June 23, 1953. Class 18.

Cobbs Manufacturing Company, Des Moines, Iowa. Automotive vehicle registration certificate holder. 580,872, Oct. 6; Serial No. 634,183. Class 19.

Cointreau Corporation: *See*—
Cointreau Pere et Fils.

Cointreau Pere et Fils, Angers, France, to Cointreau Corporation, Pennington, N. J. Liqueur. 94,714, re-renewed Dec. 30, 1953. O. G. Oct. 6. Class 49.

Colorcrete Industries, Incorporated, Holland, Mich. Machines used to mix and apply cementitious coatings to the following: buildings, building blocks and brick, etc. 580,681, Oct. 6; Serial No. 612,590, published Apr. 7, 1953. Class 23.

Commerce Clearing House, Inc., Chicago, Ill. Books, magazines, pamphlets, and topical law reporters. 428,904, Apr. 8, 1947. Republished Oct. 6. Class 38.

Community Exterminating Corp., New York, N. Y. Insecticides. 549,228, Oct. 9, 1951. Canceled July 24, 1953. O. G. Oct. 6. Class 6.

Conant Bros. Company: *See*—
Lewis, Stanley M.

Confections, Incorporated, Chicago, Ill. Raw unpopped pop corn. 580,737, Oct. 6; Serial No. 629,719, published June 23, 1953. Class 46.

Consolidated Cosmetics, Chicago, Ill., assignor, by mesne assignments, to Saint Cornelius The Centurion Chapel of Valley Forge Military Academy, Wayne, Pa. Shampoo. 580,836, Oct. 6; Serial No. 642,526, published July 7, 1953. Class 52.

Continental Copper & Steel Industries, Inc., New York, N. Y., and Perth Amboy, N. J. Lifeboats. 580,699, Oct. 6; Serial No. 620,871, published July 7, 1953. Class 19.

Coty, Inc., Wilmington, Del., and New York, N. Y., to Coty, Inc., New York, N. Y. Perfume, toilet water, face powder, etc. 305,360, renewed Aug. 15, 1953. O. G. Oct. 6. Class 51.

Cribari, B., & Sons, San Jose, to B. Cribari & Sons, Fresno, Calif. Wines. 307,453, renewed Oct. 24, 1953. O. G. Oct. 6. Class 47.

Crown Zellerbach Corporation, San Francisco, Calif. Waxed paper bags. 580,835, Oct. 6; Serial No. 642,390, published July 7, 1953. Class 2.

Dairypak, Incorporated, Cleveland, Ohio. Paper cartons. 580,798, Oct. 6; Serial No. 637,866, published July 7, 1953. Class 2.

Davies-Young Soap Company, The, Dayton, Ohio. Prepared liquid wax and water emulsion wax. 580,786, Oct. 6; Serial No. 636,323, published June 23, 1953. Class 4.

Davis, Dorothea A., Wilmette, Ill. Face powder, perfumes, lipsticks, etc. 580,732, Oct. 6; Serial No. 627,867, published July 7, 1953. Class 51.

De Carlo, Joseph, doing business under the name and style of Northway Pharmacal Company, Rochester, N. Y. Scalp stimulant and hair dressing. 580,758, Oct. 6; Serial No. 632,467, published June 23, 1953. Class 51.

Deep Rock Oil Corporation, Tulsa, Okla. Lubricating oil, lubricating greases, and gasoline. 580,661, Oct. 6; Serial No. 307,069, published June 23, 1953. Class 15.

Deerfield Groves Company, Wabasso, Fla. Fresh citrus fruits. 580,831, Oct. 6; Serial No. 641,370, published July 7, 1953. Class 46.

Detroit Gasket & Manufacturing Company, Detroit, Mich. Metal sheets intended for making gaskets. 580,823, Oct. 6; Serial No. 640,502, published July 7, 1953. Class 35.

Detroit Milling Cutter Company: *See*—
Begle, Howell E.

Dexion Limited, London, England. Metallic structural elements. 580,676, Oct. 6; Serial No. 610,168, published June 23, 1953. Class 12.

Dick, A. B., Company, Niles, Ill. Printing inks. 580,863, Oct. 6; Serial No. 624,724. Class 11.

Dickinson & Co., Chicago and Eureka, to Dickinson & Co., Chicago, Ill. Canned vegetables. 306,957, renewed Oct. 10, 1953. O. G. Oct. 6. Class 46.

Di Giorgio Fruit Corporation: *See*—
Earl Fruit Company.

Diversey Corporation, The, Chicago, Ill. Combination package of a moth repellent closet deodorant. 580,667, Oct. 6; Serial No. 603,772, published July 7, 1953. Class 6.

Dorman, N., & Co., Inc. (N. Y.), New York, N. Y. Cheese. 580,881, Oct. 6; Serial No. 645,784. Class 46.

Drew, E. F., & Co., Inc., New York, N. Y. Mixture of detergents. 580,744, Oct. 6; Serial No. 630,834, published July 7, 1953. Class 52.

Drink-O-Tap: *See*—
Kra-Mag Products.

Driver-Harris Company, Harrison, N. J. Alloys of nickel, chromium, etc. 308,697, renewed Dec. 19, 1953. O. G. Oct. 6. Class 14.

Drug Specialties, Inc., Winston-Salem, N. C. Medical preparation. 580,761, Oct. 6; Serial No. 633,148, published June 23, 1953. Class 18.

Drury, Cooper C., Dallas, Tex. Ceiling constructions. 580,686–7, Oct. 6; Serial Nos. 616,904–5, published May 19, 1953. Class 12.

Du Four Co., The: *See*—
Roche, Honoria D.

Dugan Brothers of New Jersey, Inc., Newark, N. J. Bread, cakes and pies. 304,548, renewed July 11, 1953. O. G. Oct. 6. Class 46.

Dugan Brothers of New Jersey, Inc., Newark, N. J. 100% whole wheat products—namely bread, raisin bread, sandwich loaf bread, etc. 305,246, renewed Aug. 8, 1953. O. G. Oct. 6. Class 46.

Duncan, J. Miller, executor: *See*—
Wilkinson, Alvin A.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Ready mixed paints, paste paints, dry paints, etc. 305,531, renewed Aug. 22, 1953. O. G. Oct. 6. Class 16.

Earl Fruit Company, to Di Giorgio Fruit Corporation, San Francisco, Calif. Fresh fruits. 303,234, renewed May 16, 1953. O. G. Oct. 6. Class 46.

Easterling China Company, Chicago, Ill. China tableware. 580,692. Oct. 6; Serial No. 618,206, published May 19, 1953. Class 30.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Thin, transparent sheeting of cellulosic composition and thin, translucent sheeting of cellulosic composition. 580,750, Oct. 6; Serial No. 631,476, published July 7, 1953. Class 1.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Sensitized photographic film, sensitized photographic paper, sensitized photographic plates, etc. 580,828, Oct. 6; Serial No. 640,922, published July 7, 1953. Class 26.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Sensitized photographic film, sensitized motion-picture film, etc. 580,829, Oct. 6; Serial No. 640,923, published July 7, 1953. Class 26.

Eisenberg, Jack, doing business as Florida Utilities, Miami, Fla. Tablets used to relieve drowsiness and mental fatigue. 580,713, Oct. 6; Serial No. 624,028, published June 23, 1953. Class 18.

Eisendrath, B. D., Tanning Co., Chicago, Ill. Leather. 580,876, Oct. 6; Serial No. 634,894. Class 1.

Elgin Sweeper Company, Elgin, Ill. Power operated, pneumatic spraying apparatus. 580,724, Oct. 6; Serial No. 627,052, published Mar. 3, 1953. Class 23.

Ellis Popcorn Company, The, Murray, Ky. Packaged, unpopped popcorn. 580,743, Oct. 6; Serial No. 630,652, published July 7, 1953. Class 46.

Empire Imports, Inc., New York, N. Y. Ladies' sweaters, skirts, jackets, etc. 580,821, Oct. 6; Serial No. 640,198, published June 30, 1953. Class 39.

Endicott Johnson Corporation, Endicott, N. Y. Middle sole material for shoes. 303,528, renewed May 30, 1953. O. G. Oct. 6. Class 50.

Endicott Johnson Corporation, Endicott, N. Y. Middle soles for shoes. 304,575, renewed July 11, 1953. O. G. Oct. 6. Class 39.

Englander Company, Inc., The: *See*—
Superior Felt & Bedding Co.

Eureka Iron & Metal Company, doing business under the fictitious name and style of Eureka Metals Supply Company, Los Angeles, Calif. Sheet aluminum. 580,859, Oct. 6; Serial No. 614,404. Class 14.

Eureka Metals Supply Company: *See*—
Eureka Iron & Metal Company.

Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Resinous composition. 580,740, Oct. 6; Serial No. 630,484, published July 7, 1953. Class 6.

Exomet, Incorporated, Conneaut, Ohio. Exothermic compound. 580,841, Oct. 6; Serial No. 643,034, published July 7, 1953. Class 6.

FKG Fritz Kesselring Geratebau A. G., Bachtobel-Weinfelden, Thurgau, Switzerland. Alkali-vaporous discharge tubes. 557,966, Apr. 22, 1952. Canceled Aug. 28, 1953. O. G. Oct. 6. Class 21.

Faberge, Inc., New York, N. Y. Soap. 580,819, Oct. 6; Serial No. 640,152, published July 7, 1953. Class 52.

Famous Virginia Foods, Inc., Lynchburg, Va. Pickles, jams, jellies, etc. 580,848, Oct. 6; Serial No. 644,227, published June 30, 1953. Class 46.

Federal Products Corporation, Providence, R. I. Dial gages. 580,783, Oct. 6; Serial No. 636,169, published July 7, 1953. Class 26.

Federated Department Stores, Inc., Cincinnati, Ohio. Hand sewing needles, pins, snap fasteners, etc. 580,735, Oct. 6; Serial No. 628,754, published June 16, 1953. Class 40.

Federated Department Stores, Inc., Cincinnati, Ohio. Hair driers, electric heating pads, manicure scissors and syringes. 580,774, Oct. 6; Serial No. 634,936, published July 7, 1953. Class 44.

Ferro Corporation, Cleveland, Ohio. Friable glass-like substances in finely divided form containing essential plant foods for use as a fertiliser. 580,721, Oct. 6; Serial No. 626,027, published July 7, 1953. Class 10.

Finch, Joseph S., and Company: *See*—
Pennsylvania Distilling Co., Inc.

Flintkote Company, The, New York, N. Y. Plastic composition flooring tile. 580,665, Oct. 6; Serial No. 603,291, published Nov. 6, 1951. Class 12.

Florida Utilities, *See*—
Eisenberg, Jack.

Flottmann, Heinrich, G. m. b. H., Herne, Germany. Compressed air operated machines, compressed air operated hammers, etc. 580,669, Oct. 6; Serial No. 604,847, published Apr. 28, 1953. Class 23.

Forrest, Fred F., trading and doing business as Forrest's Greenhouses, Waxahachie, Tex. Chemical compound. 580,694, Oct. 6; Serial No. 618,350, published July 7, 1953. Class 6.

Forrest's Greenhouses: *See*—
Forrest, Fred F.

Forstmann Woolen Company, Passaic, N. J. Men's, women's and children's knitted apparel. 580,698, Oct. 6; Serial No. 620,844, published June 30, 1953. Class 39.

Frank, Herman C., Billings, Mont. Door to door shoe shine and shoe repair service. 580,883, Oct. 6; Serial No. 638,358. Class 103.

Franklin Dress Co., Inc., Chicago, Ill. Women's dresses and suits. 580,650, Oct. 6; Serial No. 530,184, published June 30, 1953. Class 39.

Fratelli Borletti Societa per Azioni, Milan, Italy. Watches, clocks, clocks and watches of any kind. 580,701, Oct. 6; Serial No. 621,624, published May 19, 1953. Class 27.

French, Edward R., doing business as The Top Tunes Company, Ocean City, N. J. Grooved phonograph records. 580,857, Oct. 6; Serial No. 600,262. Class 36.

Fruit Industries, Ltd., Los Angeles, Calif., and New York, N. Y., to California Wine Association, San Francisco, Calif. Wines. 305,609, renewed Aug. 22, 1953. O. G. Oct. 6. Class 47.

Fruit Industries, Ltd., Los Angeles, Calif., and New York, N. Y., to California Wine Association, San Francisco, Calif. Wines. 307,386, renewed Oct. 24, 1953. O. G. Oct. 6. Class 47.

G. B. Products, Inc., Utica, N. Y. Sweet-spread for bread, toast, muffins, etc. 580,705, Oct. 6; Serial No. 622,256, published July 7, 1953. Class 46.

Gaire Products Company, Inc., New York, N. Y. Room deodorant. 580,706, Oct. 6; Serial No. 622,648, published July 7, 1953. Class 6.

Gairee Products Company, Inc., New York, N. Y. Insecticides. 580,710, Oct. 6; Serial No. 622,889, published July 7, 1953. Class 6.

Garden Foundations, Inc., New York, N. Y. Brassières, garter belts, girdles, and waist cinchers. 580,690, Oct. 6; Serial No. 617,189, published June 24, 1952. Class 39.

Gem Rubber Corporation, New York, N. Y. Toe rubbers, heel strip rubbers, and half rubbers. 580,697, Oct. 6; Serial No. 620,597, published June 30, 1953. Class 39.

General Dyestuff Corporation, New York, N. Y. Composition of solvents and detergents. 580,839, Oct. 6; Serial No. 642,812, published July 7, 1953. Class 52.

General Electric Company: *See*—
General Electric X-Ray Corporation.

General Electric X-Ray Corporation, Milwaukee, Wis., now by merger General Electric Company. Leasing of electrical equipment. 580,853, Oct. 6; Serial No. 589,309, published July 7, 1953. Class 100.

General Precision Laboratory Incorporated, Pleasantville, N. Y. Motion picture cameras motion picture film processors, etc. 580,779, Oct. 6; Serial No. 635,762, published July 7, 1953. Class 26.

General Precision Laboratory Incorporated, Pleasantville, N. Y. Motion picture cameras, motion picture film processors, etc. 580,781, Oct. 6; Serial No. 635,961, published July 7, 1953. Class 26.

Gevaert Photo-Producten N. V.: *See*—
Gevaert Photo-Producten, Naamlooze Vennootschap (Photo-Produits Gevaert) Societe Anonyme.

Gevaert Photo-Producten, Naamlooze Vennootschap (Photo-Produits Gevaert) Societe Anonyme, Oude-God, to Gevaert Photo-Producten N. V., Mortsel, Belgium. Sensitized photographic papers, plates, etc. 305,304, renewed Aug. 15, 1953. O. G. Oct. 6. Class 26.

Gladding, B. F., & Company, Inc., South Otselic, N. Y. Fishing lines. 580,851–2, Oct. 6; Serial Nos. 645,980–1, published July 7, 1953. Class 22.

Glidden Company, The: *See*—
Heath & Milligan Mfg. Co.

Globe Parlor Furniture Co., High Point, N. C. Upholstered furniture. 580,878, Oct. 6; Serial No. 637,770. Class 32.

Gordon Plastic Products Corp., Lynn, Mass. Christmas tree ornaments. 580,864, Oct. 6; Serial No. 630,005. Class 50.

Gottfried, Paul M., doing business under the name Paulen Chemical Company, Berwyn, Md. Detergent. 580,822, Oct. 6; Serial No. 640,337, published July 7, 1953. Class 52.

Graton & Knight Company, Worcester, Mass. Leather belt dressing and conditioner. 580,749, Oct. 6; Serial No. 631,286, published July 7, 1953. Class 6.

Great Empire Trading Co.: *See*—
Kimura, Minoru.

Greif Bros. Cooperage Corporation, The, Delaware, Ohio. Barrels, boxes, drums, etc. 580,711, Oct. 6; Serial No. 623,461, published July 7, 1953. Class 2.

Haft, Morris W., & Bros. Inc., by The House of Swansdown, Inc., New York, N. Y. Children's, misses', and ladies' dresses, coats, and suits. 241,180, Apr. 17, 1928. Republished Oct. 6. Class 39.

Haft, Morris W., & Bros. Inc., by The House of Swansdown, Inc., New York, N. Y. Woolen piece goods and woolen suitings and coatings. 295,674, July 5, 1932. Republished Oct. 6. Class 42.

Happy Valley Orchards: *See*—
Stiefvater, Gerhard W.

Hardesty, W. C., Co., Inc., New York, N. Y. Double distilled animal fatty acids, double distilled corn oil fatty acids, etc. 580,811, Oct. 6; Serial No. 639,114, published July 7, 1953. Class 6.

Harts Mountain Products, New York, N. Y. Bird feeds. 580,719, Oct. 6; Serial No. 625,798, published July 7, 1953. Class 46.

Hastogo Laboratories, Inc., Alexandria, La. Gasoline additive. 580,782, Oct. 6; Serial No. 636,127, published June 23, 1953. Class 15.

Healthways, Los Angeles, Calif. Swivels for overhead suspension of punching bags. 580,714, Oct. 6; Serial No. 624,487, published July 7, 1953. Class 22.

Heath & Milligan Mfg. Co., Chicago, Ill., to The Glidden Company, Cleveland, Ohio. Green paste paint. 92,981, re-renewed Aug. 12, 1953. O. G. Oct. 6. Class 16.

Helms Bakeries, Los Angeles, Calif. Bakery goods. 577,134, July 7, 1953. Canceled Aug. 21, 1953. O. G. Oct. 6. Class 46.

Higgins, Inc., New Orleans, La., assignee of Higgins Industries, Inc. Mixture of Portland cement and other materials. 580,649, Oct. 6; Serial No. 525,319, published June 16, 1953. Class 12.

Higgins Industries, Inc.: *See*—
Higgins, Inc.

Hilker & Bietsch Company, Chicago, Ill., and Cincinnati, Ohio. Pancake flour, bran muffin mix, biscuit mix, etc. 580,824, Oct. 6; Serial No. 640,631, published July 7, 1953. Class 46.

Hi-Vi Sales Corporation: *See*—
Iorns, Clifford L.

Homan, H., & Co. N. V., Oegstgeest, Netherlands. Flower bulbs. 580,725, Oct. 6; Serial No. 627,189, published June 23, 1953. Class 1.

Home Specialty Co., Chicago, Ill. Window and shower curtains, draperies and textile rugs, etc. 580,668, Oct. 6; Serial No. 603,845, published June 30, 1953. Class 42.

Horton Manufacturing Company, The, Bristol, to Union Hardware Company, Torrington, Conn. Golf clubs. 305,867, renewed Aug. 29, 1953. O. G. Oct. 6. Class 22.

House of Swansdown, Inc., The: *See*—
Haft, Morris W., & Bros. Inc.
Haft, Morris W., & Brothers, Inc.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Hand-operated compression sprayers. 580,715, Oct. 6; Serial No. 624,745, published Feb. 3, 1953. Class 23.

Hunneman, William C., Jr., Philadelphia, Pa. Device consisting of a combination of rollers for massaging tired feet. 580,845, Oct. 6; Serial No. 643,162, published July 7, 1953. Class 44.

Huter, Joseph G., Louisville, Ky. Candy. 580,865, Oct. 6; Serial No. 631,666. Class 46.

Imperial Cap Works, Denver, Colo. Men's caps. 580,880, Oct. 6; Serial No. 642,972. Class 39.

Industrial Chemical Company, to West Virginia Pulp and Paper Company, New York, N. Y. Natural black or vegetable black, a substitute for lampblack. 92,339, re-renewed July 1, 1953. O. G. Oct. 6. Class 6.

Ingersoll-Rand Company, The, Phillipsburg, N. J., and New York, N. Y. Air tools, air- and gas-lift pumps, core drills, etc. 580,703, Oct. 6; Serial No. 622,056, published Apr. 21, 1953. Class 23.

International Milling Company, New Prague, by International Milling Company, Minneapolis, Minn. Wheat flour. 132,001, June 8, 1920. Republished Oct. 6. Class 46.

International Milling Company, New Prague, by International Milling Company, Minneapolis, Minn. Wheat flour. 132,179, June 15, 1920. Republished Oct. 6. Class 46.

Iorns, Clifford L., doing business as Hi-Vi Sales Corporation, St. Louis, Mo., to Pets Meat Packing Company, Rush Springs, Okla. Soy bean oil for use in foods. 303,191, renewed May 16, 1953. O. G. Oct. 6. Class 46.

Jackson & Walton, Modesto, Calif. Fresh deciduous fruits and fresh vegetables. 580,850, Oct. 6; Serial No. 645,486, published July 7, 1953. Class 46.

Jensen, Georg, Inc., New York, N. Y. Sheets, pillowcases, crib covers, etc. 580,648, Oct. 6; Serial No. 504,366, published Sept. 14, 1948. Class 42.

Johnson & Johnson, New Brunswick, N. J. Bandages. 580,847. Oct. 6; Serial No. 643,963, published July 7, 1953. Class 44.

Jordeau, Jean, Inc., South Orange, N. J. Superfluous hair remover. 580,653, Oct. 6; Serial No. 574,147, published May 19, 1953. Class 51.

Justi, H. D., & Son, Inc., Philadelphia, Pa. Artificial teeth. 580,756, Oct. 6; Serial No. 632,251, published July 7, 1953. Class 44.

Kahn, David, Inc., North Bergen, N. J. Mechanical pens and mechanical pencils. 580,874, Oct. 6; Serial No. 634,851. Class 37.

Kangol Wear Limited, Cumberland, England. Berets. 580,815, Oct. 6; Serial No. 639,757, published June 30, 1953. Class 39.

Kay Manufacturing Corporation, Brooklyn, N. Y. Inner spring units for mattresses and cushions. 381,478, Sept. 24, 1940. Republished Oct. 6. Class 32.

Keiller, James, & Son, Ltd., Inc., Baltimore, Md. Marmalade. 580,651, Oct. 6; Serial No. 549,935, published June 23, 1953. Class 46.

Kemp, E. F., Corp., Somerville and Winter Hill, Somerville, Mass. Salted nuts. 580,817, Oct. 6; Serial No. 639,939, published July 7, 1953. Class 46.

Kimura, Minoru, doing business as Great Empire Trading Co., Seattle, Wash. Canned mandarin oranges. 580,813. Oct. 6; Serial No. 639,430, published July 7, 1953. Class 46.

Kingsway Press, Inc., The, New York, N. Y. Periodical publication. 354,483, Feb. 15, 1938. Republished Oct. 6. Class 38.

Kingsway Press, Inc., The, assignor to Yourself Publications, Inc., by Yourself Publications, Inc., New York, N. Y. Magazine. 371,636, Oct. 3, 1939. Republished Oct. 6. Class 38.

Kingsway Press, Inc., The, New York, N. Y. Books. 443,588, Dec. 6, 1949. Republished Oct. 6. Class 38.

Kleckner, David, & Son, Inc., Ozone Park, N. Y. Food colors, gelatine desserts, chocolate, vanilla, butter scotch, etc., puddings, etc. 580,660. Oct. 6; Serial No. 596,848, published June 16, 1953. Class 46.

Kohl & Madden Printing Ink Co. Inc., Chicago, Ill. Printing inks. 580,862, Oct. 6; Serial No. 619,974. Class 11.

Kra-Mag Products, also trading as Drink-O-Tap, Baltimore, Md. Combination bottle cap and cup. 444,791, Oct. 6; Serial No. 523,525, published July 7, 1953. Class 2.

Kreisler, Jacques, Manufacturing Corporation, North Bergen, N. J. Watch bands. 580,825, Oct. 6; Serial No. 640,638, published May 19, 1953. Class 28

Kress, S. H., & Co., to National Paper Corporation of Pennsylvania, New York, N. Y. Linen towels, sheets, table-cloths, etc. 308,289, renewed Nov. 28, 1953. O. G. Oct. 6. Class 42.

La Motoconfort, Pantin (Seine), France. Motorcycles. 580,689, Oct. 6; Serial No. 617,086, published July 7, 1953. Class 19.

Lambert Company, The: *See*—
London House, Ltd.

Lambert Company, The, doing business as John Hudson Moore Co., Division of The Lambert Company, Jersey City, N. J., and New York, N. Y. Cologne, after-shaving lotion, hair lotion, etc. 580,773, Oct. 6; Serial No. 634,790, published June 23, 1953. Class 51.

Lamb's Lan-O-Lin Laboratory: *See*—
Bailey, Joe W.

Laminated Shim Company, Incorporated, Glenbrook, Conn. Shims. 580,764, Oct. 6; Serial No. 633,545, published July 7, 1953. Class 35.

Larco Nuclear Instrument Company: *See*—
Ruderman, Irving W.

Lawson, F. H., Company, The, Cincinnati, Ohio. Wall cabinets. 580,866, Oct. 6; Serial No. 632,992. Class 32.

Leeman, Stephen, Products Company: *See*—
Leeman, Stephen, Products Corporation.

Leeman, Stephen, Products Corporation, New York, to Stephen Leeman Products Company, West Nyack, N. Y. Pottery bowls, jars, and vases. 301,768, renewed Mar. 14, 1953. O. G. Oct. 6. Class 30.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. 580,766, Oct. 6; Serial No. 634,258, published July 7, 1953. Class 2.

Les Parfums de Dana, Inc., New York, N. Y. Toilet soaps. 580,767, Oct. 6; Serial No. 634,259, published July 7, 1953. Class 52.

Lewel Manufacturing Co., Inc.: *See*—
Lewel Mfg. Co. Inc.

Lewel Mfg. Co. Inc., to Lewel Manufacturing Co., Inc., New York, N. Y. Step-in girdles. 305,555, renewed Aug. 22, 1953. O. G. Oct. 6. Class 39.

Lewis, Stanley M., doing business as Conant Bros. Company, Somerville, Mass. Weighing scales. 580,708, Oct. 6; Serial No. 622,666, published July 7, 1953. Class 26.

Libbey, W. S., Company, Lewiston, Maine. Rubberized fabric. 308,882, renewed Dec. 5, 1953. O. G. Oct. 6. Class 42.

Lien Chemical Company, Franklin Park, Ill. Powdered hand soap. 580,678, Oct. 6; Serial No. 610,696, published July 7, 1953. Class 52.

Lien Chemical Company, Franklin Park, Ill. Self polishing floor wax. 580,679, Oct. 6; Serial No. 610,700, published July 7, 1953. Class 4.

Lightner, Larry, Inc., Brownsville, Tex. Fresh citrus fruit. 580,814, Oct. 6; Serial No. 639,478, published July 7, 1953. Class 46.

Litchfield Creamery Co., Litchfield, Ill. Butter. 580,753, Oct. 6; Serial No. 631,936, published July 7, 1953. Class 46.

London House, Ltd., New York, N. Y., to The Lambert Company, Jersey City, N. J., and New York, N. Y. Smokers' pipes. 308,432, renewed Dec. 5, 1953. O. G. Oct. 6. Class 8.

Lookout Oil and Refining Company, Chattanooga, Tenn., assignor to Armour and Company, Shortening. 580,726–7. Oct. 6; Serial Nos. 627,199–200, published June 16, 1953. Class 46.

Lorillard, P., Company, New York, N. Y. Cigarettes. 580,875, Oct. 6; Serial No. 634,852. Class 17.

Lucky Star Fashions, Inc., New York, N. Y. Ladies' dresses. 580,659, Oct. 6; Serial No. 596,737, published Nov. 11, 1952. Class 39.

Macon Electronics, Division of York Radio & Television Corp., Decatur, Ill. Radio and television antennas. 580,870, Oct. 6; Serial No. 633,989. Class 21.

Magnaflux Corporation, Chicago, Ill. Material for use in locating cracks and defects in porous bodies. 580,716, Oct. 6; Serial No. 624,959, published July 7, 1953. Class 6.

Makers of Kal, Inc., Los Angeles, Calif. Tooth powder. 580,867, Oct. 6; Serial No. 633,458. Class 51.

Mantua Metal Products Co., Inc., Woodbury Heights, N. J. Model or miniature railway cars and equipment. 580,849, Oct. 6; Serial No. 645,048, published June 23, 1953. Class 22.

Manufacturing Laboratories, Inc., Boston, Mass. Liquid soap. 580,777, Oct. 6; Serial No. 635,603, published July 7, 1953. Class 52.

Marathon Corporation, Menasha, Wis. Laminated cardboard trays. 580,784, Oct. 6; Serial No. 636,241, published July 7, 1953. Class 2.

Margien, Juliette, Inc., Los Angeles and Hollywood, Calif. Preparations for repairing, preserving, and beautifying finger nails and toe nails. 580,754–5, Oct. 6; Serial Nos. 632,165–6, published June 23, 1953. Class 51.

Marsh Wall Products, Inc., Dover, Ohio. Fabricated wall and ceiling panels. 580,778, Oct. 6; Serial No. 635,605, published June 23, 1953. Class 12.

Marshall-Wells Company, Duluth, Minn. Laundry washing machines and laundry dryers. 580,840, Oct. 6; Serial No. 642,827, published June 23, 1953. Class 24.

Massarotti, Mario, Pavia, Italy. Change speed gears for motor cars. 580,680, Oct. 6; Serial No. 612,266, published Mar. 10, 1953. Class 23.

Mattel, Incorporated, Los Angeles, Calif. Children's toys. 580,818, Oct. 6; Serial No. 640,073, published June 16, 1953. Class 22.

Mautz Paint & Varnish Co., Madison, Wis. Rubber base paint. 580,879, Oct. 6; Serial No. 640,520. Class 16.

Mazurkiewicz, Alexander, doing business as Petroleum Laboratories, Long Island City, N. Y. Fuel oil additives and combustion catalysts. 580,712, Oct. 6; Serial No. 623,772, published June 23, 1953. Class 15.

McLaurin-Jones Co., Brookfield, Mass. Gummed paper and cloth. 308,658, renewed Dec. 12, 1953. O. G. Oct. 6. Class 37.

McLean, Dr. J. H., Medicine Company, The: *See*—
Chapa, Frank A.

McLean, Dr. J. H., Medicine Company, The, St. Louis, Mo. Medicines or preparations designed and intended as remedies. 115,456, Feb. 13, 1917. Republished Oct. 6. Class 18.

McLean, Dr. J. H., Medicine Company, The, St. Louis, Mo. Medicinal preparations and products. 128,775, Jan. 13, 1920. Republished Oct. 6. Class 18.

McLean, Dr. J. H., Medicine Company, The, St. Louis, Mo. Medicinal preparation. 128,776, Jan. 13, 1920. Republished Oct. 6. Class 18.

McLean, Dr. J. H., Medicine Company, The, St. Louis, Mo. Medicinal preparation. 222,812, Jan. 11, 1927. Republished Oct. 6. Class 18.

McLean, Dr. J. H., Medicine Company, The, St. Louis, Mo. Medicinal preparation. 232,728, Sept. 13, 1927. Republished Oct. 6. Class 18.

Mennen Company, The, Newark, N. J. Skin lotion. 580,657, Oct. 6; Serial No. 592,328, published June 23, 1953. Class 51.

Meridian Distributors: *See*—
Biddle Purchasing Company.

Merit Watch Company, Inc., New York, N. Y. Watches and watch parts. 580,675, Oct. 6; Serial No. 609,491, published May 19, 1953. Class 27.

Milgram Food Stores, Inc., Kansas City, Mo. Bread, fresh, canned, and frozen fruits and vegetables. 580,664, Oct. 6; Serial No. 601,503, published July 7, 1953. Class 46.

Monsanto Chemical Company, St. Louis, Mo. Synthetic resins and synthetic resinous compositions. 580,731, Oct. 6; Serial No. 627,309, published July 7, 1953. Class 6.

Moore, John Hudson, Co., division of The Lambert Company: *See*—
Lambert Company, The.

Mosler Safe Company, The, Hamilton, Ohio. Safes and safety cabinets. 222,533, Jan. 4, 1927. Republished Oct. 6. Class 25.

Mosler Safe Company, The, Hamilton, Ohio. Antirust preparation and lubricant. 223,707, Feb. 8, 1927. Republished Oct. 6. Class 15.

Mosler Safe Company, The, Hamilton, Ohio. Portable and built in place safes, safety cabinets, bank vaults, etc. 352,592, Dec. 7, 1937. Republished Oct. 6. Class 25.

Moyer, Walter W., Company, Ephrata, Pa. Underwear and sleeping garments. 580,860, Oct. 6; Serial No. 616,438. Class 39.

Multnomah Plywood Corporation, Portland, Oreg. Plywood. 580,762, Oct. 6; Serial No. 633,315, published July 7, 1953. Class 12.

Munising Wood Products Company, Inc., Chicago, Ill. Bowls, lazy Susans, trays, etc. 580,729, Oct. 6; Serial No. 627,302, published July 7, 1953. Class 2.

Mutual Buying Syndicate, Inc., New York, N. Y. Ladies' hosiery. 580,691, Oct. 6; Serial No. 617,308, published June 30, 1953. Class 39.

Myrurgia, S. A., Barcelona, Spain. Toilet soaps. 185,086, June 10, 1924. Republished Oct. 6. Class 52.

Myrurgia, S. A., Barcelona, Spain. Perfumes, toilet water, face powder, etc. 336,092, June 23, 1936. Republished Oct. 6. Class 51.

Myrurgia, S. A., Barcelona, Spain. Soaps. 336,093, June 23, 1936. Republished Oct. 6. Class 52.

Myrurgia, S. A., Barcelona, Spain. Perfumes, toilet creams, eau de cologne, etc. 417,507, Oct. 30, 1945. Republished Oct. 6. Class 51.

Myrurgia, S. A., Barcelona, Spain. Toilet soaps. 418,365, Dec. 18, 1945. Republished Oct. 6. Class 52.

Myrurgia, S. A., Barcelona, Spain. Toilet soap. 420,827, May 7, 1946. Republished Oct. 6. Class 52.

Myrurgia, S. A., Barcelona, Spain. Perfumes, toilet creams, eau de cologne, etc. 428,645, Apr. 1, 1947. Republished Oct. 6. Class 51.

National Grinding Wheel Company, Inc., North Tonawanda, N. Y. Grinding wheels, rubbing bricks, grinding blocks. 433,412–15, Oct. 14, 1947. Republished Oct. 6. Class 4.

National Licorice Company, Brooklyn, N. Y. Licorice candy. 307,065, renewed Oct. 10, 1953. O. G. Oct. 6. Class 46.

New England Overall Co. Inc., Boston, Mass. Dungarees. 580,807, Oct. 6; Serial No. 638,598, published July 7, 1953. Class 39.

New England Overall Co. Inc., Boston, Mass. Women's and girls' dungarees. 580,808, Oct. 6; Serial No. 638,599, published July 7, 1953. Class 39.
Nightingale, Francis G., Waco, Tex. Preparation for treatment of gallstones. 580,805, Oct. 6; Serial No. 638,546, published June 23, 1953. Class 18.
Nopco Chemical Company, Harrison, N. J. Fat-soluble vitamin concentrates, vitamin-containing solids. 580,672, Oct. 6; Serial No. 606,791, published June 23, 1953. Class 18.
Northway Pharmacal Company: *See*—
De Carlo, Joseph.
Northwest Paper Company, The, Cloquet, Minn. Paper. 378,221–2, June 4, 1940. Canceled Aug. 12, 1953. O. G. Oct. 6. Class 37.
Northwest Plastics, Inc., St. Paul, Minn. Cigarette package dispensers. 580,748, Oct. 6; Serial No. 631,218, published July 7, 1953. Class 2.
Odell Company, Inc., The, Newark, N. J. Shampoo. 580,842, Oct. 6; Serial No. 643,045, published July 7, 1953. Class 52.
Oswego Soy Products Corporation, Oswego, N. Y. Combination plant food and soil conditioner. 580,833, Oct. 6; Serial No. 641,635, published July 7, 1953. Class 10.
PAJ Manufacturing Co., Los Angeles, Calif. Outer shirts. 580,736, Oct. 6; Serial No. 629,117, published June 30, 1953. Class 39.
Pacific Mutual Door Company, Tacoma, Wash. Doors, sash, and moldings. 92,823, re-renewed July 29, 1953. O. G. Oct. 6. Class 12.
Pardee Company, The: *See*—
Pardee, William S.
Pardee, William S., doing business as The Pardee Company, Hollywood, Calif. Synthetic precious and semi-precious gems. 580,693, Oct. 6; Serial No. 618,325, published May 19, 1953. Class 28.
Paulen Chemical Company: *See*—
Gottfried, Paul M.
Peerless Plastics, assignor to Peerless Plastics, Inc., Culver City, Calif. Interior decorative wall tile. 580,806, Oct. 6; Serial No. 638,551, published July 7, 1953. Class 12.
Peerless Plastics, Inc., assignee: *See*—
Peerless Plastics.
Pennsylvania Distilling Co., Inc., Logansport, Pa., and Brooklyn, N. Y., to Joseph S. Finch and Company, Schenley, Pa. Whiskey. 308,778, renewed Dec. 19, 1953. O. G. Oct. 6. Class 49.
Pep Boys—Manny, Moe & Jack, The, Philadelphia, Pa. Pneumatic rubber tires, pneumatic tire casings, and tubes. 375,999, Mar. 12, 1940. Republished Oct. 6. Class 35.
Personal Products Corporation, North Brunswick Township, N. J. Sanitary napkin belts. 580,720, Oct. 6; Serial No. 625,816, published July 7, 1953. Class 44.
Petroleum Laboratories: *See*—
Mazurkiewicz, Alexander.
Petroleum Solvents Corporation, New York, N. Y. Chemical solvent and cleaner. 425,615–16, Nov. 26, 1946. Republished Oct. 6. Classes 6 and 52.
Pets Meat Packing Company: *See*—
Iorns, Clifford L.
Phi Alpha Theta, Greeley, Colo., to Phi Alpha Theta, Allentown, Pa. Fraternity badges, lapel buttons, etc. 307,765, renewed Oct. 31, 1953. O. G. Oct. 6. Class 28.
Pillsbury Mills, Inc., Minneapolis, Minn. Raised doughnut mix. 580,856, Oct. 6; Serial No. 585,187. Class 46.
Pincus Bros. Incorporated, Philadelphia, Pa. Men's and boys' suits, sportcoats, slacks, etc. 580,734, Oct. 6; Serial No. 628,167, published June 30, 1953. Class 39.
Piper Brace Co., Kansas City, Mo. Sacroiliac supports. 580,838, Oct. 6; Serial No. 642,688, published July 7, 1953. Class 44.
Progressive Industries, Inc., Long Island City, N. Y. Spraying liquid plastic on wood, plaster, stucco, etc. 580,853, Oct. 6; Serial No. 636,381, published July 7, 1953. Class 103.
Pyle-National Company, The, Chicago, Ill. Electrical apparatus. 580,871, Oct. 6; Serial No. 634,113. Class 21.
Rand Rubber Company, Inc., Brooklyn, N. Y. Light controlling attachments for eyeglasses. 580,696, Oct. 6; Serial No. 619,950, published July 7, 1953. Class 26.
Rand Rubber Company, Inc., Brooklyn, N. Y. Water repellent baby pants. 580,820, Oct. 6; Serial No. 640,169, published June 30, 1953. Class 39.
Reefer-Galler, Incorporated, New York, N. Y. Room deodorant. 580,707, Oct. 6; Serial No. 622,655, published July 7, 1953. Class 6.
Revlon Products Corporation, New York, N. Y. Lipstick, nail enamel, face powder, etc. 580,771, Oct. 6; Serial No. 634,605, published June 23, 1953. Class 51.
Revlon Products Corporation, New York, N. Y. Lipstick and nail enamel. 580,794, Oct. 6; Serial No. 637,401, published July 7, 1953. Class 51.
Rice-Stix Dry Goods Co., to Rice-Stix, Inc., St. Louis, Mo. Pajamas and other nightwear. 308,754, renewed Dec. 19, 1953. O. G. Oct. 6. Class 39.
Rice-Stix, Inc.: *See*—
Rice-Stix Dry Goods Co.
Richfield Oil Corporation, Los Angeles, Calif. Additive for heating oils and fuel oils. 580,730, Oct. 6; Serial No. 627,358, published June 23, 1953. Class 15.
Rival Manufacturing Company, Kansas City, Mo. Hand-operated food mixers, beaters and whippers. 580,733, Oct. 6; Serial No. 627,901, published Feb. 24, 1953. Class 23.
Robinson Company, The, Blair, Nebr. Device for causing an admixture of air and water vapor to flow into the intake manifold of an internal combustion engine. 580,700, Oct. 6; Serial No. 621,578, published Apr. 14, 1953. Class 23.
Roche, Honoria D., doing business as The Du Four Co., Washington, D. C. Massage cream, peach bloom facial tint, cuticle cream, etc. 580,768–9, Oct. 6; Serial No. 634,345–6, published June 23, 1953. Class 51.
Rosenthal-Block China Corporation, The, New York, N. Y. Chinaware and porcelain items. 580,792, Oct. 6; Serial No. 636,944, published Apr. 14, 1953. Class 30.
Ross, Will, Inc., Milwaukee, Wis. Sanitary belts. 580,739, Oct. 6; Serial No. 630,445, published July 7, 1953. Class 44.
Rotareed Corporation, The, Bronxville, N. Y. De-aeration apparatus. 580,670, Oct. 6; Serial No. 606,440, published Apr. 28, 1953. Class 23.
Ruderman, Irving W., doing business as Larco Nuclear Instrument Company, Palisades Park, N. J. Instruments and apparatus for detection, indication, or measurement of nuclear or other radiation. 580,795, Oct. 6; Serial No. 637,724, published July 7, 1953. Class 26.
Russell Playing Card Co., Milltown, N. J., and New York, N. Y., to The United States Playing Card Company, Cincinnati, Ohio. Playing cards. 94,671, re-renewed Dec. 23, 1953. O. G. Oct. 6. Class 22.
Sage Laboratories, Inc., New York, N. Y. Cheesecloth. 580,722, Oct. 6; Serial No. 626,049, published July 7, 1953. Class 42.
Sagner's, A., Son, Baltimore, Md. Men's suits, coats, slacks, etc. 580,787, Oct. 6; Serial No. 636,540, published June 30, 1953. Class 39.
Saint Cornelius The Centurion Chapel of Valley Forge Military Academy, assignee: *See*—
Consolidated Cosmetics.
Sales Affiliates, Inc., New York, N. Y. Permanent wave lotion and neutralizer. 580,858, Oct. 6; Serial No. 609,606. Class 51.
Salomon, L. A., & Bro., to L. A. Salomon & Bro., New York, N. Y. Kieselguhr, infusorial earth, diatomaceous earth, etc. 304,887, renewed July 18, 1953. O. G. Oct. 6. Class 1.
Schmid, Julius, Inc., New York, N. Y. Prophylactic rubber articles. 580,760, Oct. 6; Serial No. 633,124, published July 7, 1953. Class 44.
Schmid, Julius, Inc., New York, N. Y. Vaginal jelly applicators. 580,812, Oct. 6; Serial No. 639,193, published July 7, 1953. Class 44.
Schulze and Burch Biscuit Co., Chicago, Ill. Cookies. 580,861, Oct. 6; Serial No. 619,854. Class 46.
Sigma Phi Delta Fraternity, Urbana, Ill. Fraternity pins, badges, buttons, etc. 580,745, Oct. 6; Serial No. 630,856, published May 19, 1953. Class 28.
Smith, L. C., & Corona Typewriters, Inc.: *See*—
Vivid, Incorporated.
Società in Accomandita Semplice Franco Cella & C., Milan, Italy. Dentifrices, solid and liquid brilliantine, toilet powders, etc. 580,663, Oct. 6; Serial No. 599,338, published June 23, 1953. Class 51.
Southern Knitwear Mills, Inc., Charlotte, N. C. Children's knitwear. 580,788, Oct. 6; Serial No. 636,747, published June 30, 1953. Class 39.
Southern Lightweight Aggregate Corporation, Norfolk, Va. Lightweight concrete aggregate, lightweight structural concrete aggregate, etc. 580,654, Oct. 6; Serial No. 575,306, published Apr. 17, 1951. Class 12.
Southwestern Portland Cement Company, Los Angeles, Calif. Cements. 580,772, Oct. 6; Serial No. 634,611, published June 23, 1953. Class 12.
Spring Packing Corporation, Chicago, Ill. Waterproofing and insulating bituminous composition. 580,717, Oct. 6; Serial No. 625,494, published June 23, 1953. Class 12.
Stanley, Wm. H., Inc., New York, N. Y. Canned fish. 240,665, Apr. 3, 1928. Republished Oct. 6. Class 46.
Starline Inc., Harvard, Ill. Pens and corrals and gates therefor, stalls and partitions therefor, etc. 580,800, Oct. 6; Serial No. 638,036, published July 7, 1953. Class 12.
Steele's Pansy Gardens, Portland, Oreg. Pansy seeds. 580,666, Oct. 6; Serial No. 603,392, published May 19, 1953. Class 1.
Stiefvater, Gerhard W., doing business as Happy Valley Orchards, Chico, Calif. Shelled, plain almonds. 580,658, Serial No. 593,375, published June 16, 1953. Class 46.
Stomaseptine Company, to Stomaseptine Corporation, New York, N. Y. Antiseptic powder. 307,471, renewed Oct. 24, 1953. Oct. 6. Class 18.
Stomaseptine Corporation: *See*—
Stomaseptine Company.
Storkline Furniture Corporation, Chicago, Ill. Baby strollers, baby carriages, baby coaches, etc. 580,801, Oct. 6; Serial No. 638,169, published July 7, 1953. Class 19.
Strohmeyer & Arpe Company, New York, N. Y. Mineral wax. 94,503, re-renewed Dec. 9, 1953. O. G. Oct. 6. Class 15.

Sulfur-8 Chemical Co., Inc., Brooklyn, N. Y. Hair and scalp conditioner. 580,702, Oct. 6; Serial No. 621,917, published June 16, 1953. Class 51.
Sun Chemical Corporation, Long Island City, N. Y. Chemical composition. 580,796, Oct. 6; Serial No. 637,731, published July 7, 1953. Class 6.
Superior Felt & Bedding Co., to The Englander Company, Inc., Chicago, Ill. Mattresses. 306,577, renewed Sept. 26, 1953. O. G. Oct. 6. Class 32.
Swift & Company, Chicago, Ill. Wool oil. 580,791, Oct. 6; Serial No. 636,865, published June 23, 1953. Class 6.
Swiss Pine Importing Co., Inc., New York, N. Y. Toilet soap. 580,837, Oct. 6; Serial No. 642,579, published July 7, 1953. Class 52.
Takamine Laboratory, Inc., Clifton, N. J. Enzyme preparation. 580,843–4, Oct. 6; Serial Nos. 643,051–2, published July 7, 1953. Class 6.
Taylor Instrument Companies, Rochester, N. Y. Pneumatic, automatic controllers for controlling temperature, pressure, etc. 580,746, Oct. 6; Serial No. 631,073, published July 7, 1953. Class 26.
Thomson, R. H., & Co. (Distillers) Limited, Leith, Edinburgh, Scotland. Scotch whisky. 580,763, Oct. 6; Serial No. 633,339, published July 7, 1953. Class 49.
Tide Water Associated Oil Company, New York, N. Y. Tires. 580,846, Oct. 6; Serial No. 643,197, published July 7, 1953. Class 35.
Top Tunes Company, The: *See*—
French, Edward R.
Trenton Corporation, The, Ann Arbor, Mich. Flexible protective covering for pipes, etc. 580,673, Oct. 6; Serial No. 608,182, published June 23, 1953. Class 12.
Tru-Fyre Laboratories, Los Angeles, Calif. Fired on ceramic color glaze, underglaze, overglaze, etc. 580,662, Oct. 6; Serial No. 598,513, published June 23, 1953. Class 12.
Underwood Corporation: *See*—
Underwood Elliott Fisher Company.
Underwood Elliott Fisher Company, to Underwood Corporation, New York, N. Y. Typewriting machines and typewriting machine parts. 308,014, renewed Nov. 14, 1953. O. G. Oct. 6. Class 23.
Ungarische Gummiwaarenfabrika Actiengesellschaft, Budapest, Austria-Hungary, to The Anchor Packing Company, Philadelphia, Pa. Hollow and solid rubber tires. 94,774, re-renewed Dec. 30, 1953. O. G. Oct. 6. Class 35.
Union Hardware Company: *See*—
Horton Manufacturing Company, The.
United States Playing Card Company, The: *See*—
Russell Playing Card Co.
United Supply Company, to Boyle-Midway Inc., New York, N. Y. Cleaning material. 93,501, re-renewed Sept. 16, 1953. O. G. Oct. 6. Class 52.
Valco Manufacturing Company, Huntington Park, Calif. Dairy equipment—namely tanks. 580,738, Oct. 6; Serial No. 629,828, published July 7, 1953. Class 2.
Veeder-Root Incorporated, Hartford, Conn. Counters and registers. 580,695, Oct. 6; Serial No. 619,858, published May 5, 1953. Class 26.
Ventilated Awning Mfg. Co.: *See*—
Watson, Charles E.
Veterans of Foreign Wars of the United States, Kansas City, Mo. Lapel emblems, belt buckles, tie clasps, etc. 580,685, Oct. 6; Serial No. 616,261, published May 19, 1953. Class 28.
Vitron Corporation, The, Wilmington, Del. Glass fibrous matted material, etc. 437,173, Mar. 9, 1948. Canceled Aug. 12, 1953. O. G. Oct. 6. Class 12.
Vivid, Incorporated, Chicago, Ill., to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y. Hectograph, typewriter, copying, and wrapping paper, etc. 304,835, renewed July 18, 1953. O. G. Oct. 6. Class 37.
Wacker-Chemie G. m. b. H.: *See*—
Wacker, Dr. Alexander, Gesellschaft für Elektrochemische Industrie, G. m. b. H.
Wacker, Dr. Alexander, Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany, now by change of name Wacker-Chemie G. m. b. H. Perfumes, hair tonic, face lotion, etc. 580,776, Oct. 6; Serial No. 635,569, published June 30, 1953. Class 51.
Washington Post Company, The, by The Washington Post Company, Washington, D. C. Newspapers. 66,538, Dec. 10, 1907. Republished Oct. 6. Class 38.
Watling Scale Company, Chicago, Ill. Coin-controlled weighing machines. 306,060, renewed Sept. 5, 1953. O. G. Oct. 6. Class 26.
Watling Scale Company, Chicago, Ill. Coin-controlled vending machines. 306,087, renewed Sept. 5, 1953. O. G. Oct. 6. Class 23.
Watson, Charles E., doing business as Ventilated Awning Mfg. Co., Oklahoma City, Okla. Ventilated metal awnings. 546,833, Aug. 21, 1951. Canceled July 24, 1953. O. G. Oct. 6. Class 12.
Wayne Iron Works, Wayne, Pa. Folding grandstands. 308,719, renewed Dec. 19, 1953. O. G. Oct. 6. Class 12.
Weil & Company, Cleveland, Ohio. Coffee. 580,652, Oct. 6; Serial No. 571,626, published July 7, 1953. Class 46.
Well Instrument Developing Co., Houston, Tex. Well logging apparatus for indicating and recording the earth formation penetrated in the course of the drilling for oil and gas wells and the like. 580,752, Oct. 6; Serial No. 631,832, published July 7, 1953. Class 26.
Welsken Laboratories: *See*—
Wilkinson, Alvin A.
West Disinfecting Company, Long Island City, N. Y. Cleaning preparations. 303,299, renewed May 23, 1953. O. G. Oct. 6. Class 4.
West Disinfecting Company, Long Island City, N. Y. Air purifying preparations, antiseptics, antiseptic preparations, etc. 303,478, renewed May 23, 1953. O. G. Oct. 6. Class 18.
West, H. C., & Sons, Birdsnest, Va. General fresh farm produce. 580,704, Oct. 6; Serial No. 622,135, published June 23, 1953. Class 46.
Westinghouse Electric Corporation, Pittsburgh, Pa., and Bloomfield, N. J. Meat and meat products. 580,655, Oct. 6; Serial No. 587,136, published July 21, 1953. Class 46.
West Bend Aluminum Co., West Bend, Wis. Coffee making percolators. 305,164, renewed Aug. 8, 1953. O. G. Oct. 6. Class 13.
West Virginia Pulp and Paper Company: *See*—
Industrial Chemical Company.
Whitehall Pharmacal Company: *See*—
Blackstone Remedies Co.
Wilkins-Rogers Milling Co., Inc., Washington, D. C. Wheat flour. 304,505, renewed July 11, 1953. O. G. Oct. 6. Class 46.
Wilkinson, Alvin A., deceased, doing business as Welsken Laboratories, to J. W. Wilkinson and J. M. Duncan, executors, doing business as Welsken Laboratories, Spartanburg, S. C. Preparation for the treatment of eczema, etc. 308,118, renewed Nov. 21, 1953. O. G. Oct. 6. Class 18.
Wilkinson, John W., executor: *See*—
Wilkinson, Alvin A.
Williams, C. K., & Co., Easton, Pa. Low grade limestone. 580,810, Oct. 6; Serial No. 639,092, published July 7, 1953. Class 1.
Wolf Brothers, Inc., Philadelphia, Pa. Paper bags. 580,802–3, Oct. 6; Serial Nos. 638,178–9, published July 7, 1953. Class 2.
Wyeth, John, & Brother, Incorporated, Philadelphia, Pa., to American Home Products Corporation, doing business as Wyeth Laboratories, Philadelphia, Pa., and New York, N. Y. Preparation consisting of a colloidal suspension of kaolin in alumina hydroxide. 306,187, renewed Sept. 12, 1953. O. G. Oct. 6. Class 18.
Wyeth Laboratories: *See*—
Wyeth, John, & Brother, Incorporated.
X-Ray Products Corporation, North Hollywood, Calif. Industrial fluoroscopic and radiographic apparatus, and parts thereof. 580,826, Oct. 6; Serial No. 640,705, published July 7, 1953. Class 26.
Young, Edward, & Co., Limited, London and Liverpool, to Edward Young & Co. Limited, London, England. Spirits comprising whisky and other potable distilled liquors. 308,313, renewed Nov. 28, 1953. O. G. Oct. 6. Class 49.
Your Health Publications, Inc., New York, N. Y. Magazine. 368,733, June 27, 1939. Republished Oct. 6. Class 38.
Your Health Publications, Inc., New York, N. Y. Magazine. 407,397, June 6, 1944. Republished Oct. 6. Class 38.
Yourself Publications, Inc.: *See*—
Kingsway Press, Inc., The.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Brooklyn Union Coal Company, Inc. 530,638, Sept. 12, 1950. Canceled Aug. 21, 1953. O. G. Oct. 6.
Flower bulbs. H. Homan & Co. N. V. 580,725, Oct. 6; Serial No. 627,189, published June 23, 1953.
Kieselguhr, infusorial earth, diatomaceous earth, etc. L. A. Salomon & Bro. 304,887, renewed July 18, 1953. O. G. Oct. 6.
Leather. B. D. Eisendrath Tanning Co. 580,876, Oct. 6; Serial No. 634,894.
Limestone, Low grade. C. K. Williams & Co. 580,810, Oct. 6; Serial No. 639,092, published July 7, 1953.
Rubber reinforced fibers. Allen Industries, Incorporated. 580,671, Oct. 6; Serial No. 606,741, published May 19, 1953.
Seeds, Pansy. Steele's Pansy Gardens. 580,666, Oct. 6; Serial No. 603,392, published May 19, 1953.
Thin, transparent sheeting of cellulosic composition and thin, translucent sheeting of cellulosic composition. Eastman Kodak Company. 580,750, Oct. 6; Serial No. 631,476, published July 7, 1953.

CLASS 2

Bags, Insulated heat-retaining baby-bottle zipper. Barbara Diane. 580,832, Oct. 6; Serial No. 641,540, published July 7, 1953.
Bags, Paper. Wolf Brothers, Inc. 580,802–3, Oct. 6; Serial Nos. 638,178–9, published July 7, 1953.
Bags, Waxed paper. Crown Zellerbach Corporation. 580,835, Oct. 6; Serial No. 642,390, published July 7, 1953.
Barrels, boxes, drums, etc. The Greif Bros. Cooperage Corporation. 580,711, Oct. 6; Serial No. 623,461, published July 7, 1953.
Bottle cap and cup, Combination. Kra-Mag Products. 444,791, Oct. 6; Serial No. 523,525, published July 7, 1953.
Bowls, lazy Susans, trays, etc. Munising Wood Products Company, Inc. 580,729, Oct. 6; Serial No. 627,302, published July 7, 1953.
Cartons, Paper. Dairypak, Incorporated. 580,798, Oct. 6; Serial No. 637,866, published July 7, 1953.
Dairy equipment—namely, tanks. Valco Manufacturing Company. 580,738, Oct. 6; Serial No. 629,828, published July 7, 1953.
Dispensers, Cigarette package. Northwest Plastics, Inc. 580,748, Oct. 6; Serial No. 631,218, published July 7, 1953.
Trays, Laminated cardboard. Marathon Corporation. 580,784, Oct. 6; Serial No. 636,241, published July 7, 1953.
Vacuum bottles. Biddle Purchasing Company. 580,797, Oct. 6; Serial No. 637,814, published July 7, 1953.
Vanity cases, compacts, and lipstick holders. Les Parfums de Dana, Inc. 580,766, Oct. 6; Serial No. 634,258, published July 7, 1953.

CLASS 4

Cleaning preparations. West Disinfecting Company. 303,299, renewed May 23, 1953. O. G. Oct. 6.
Grinding wheels, rubbing bricks, grinding blocks. National Grinding Wheel Company, Inc. 433,412–15, Oct. 14, 1947. Republished Oct. 6.
Wax, Prepared liquid, and water emulsion wax. The Davies-Young Soap Company. 580,786, Oct. 6; Serial No. 636,323, published June 23, 1953.
Wax, Self polishing floor. Lien Chemical Company. 580,679, Oct. 6; Serial No. 610,700, published July 7, 1953.

CLASS 5

Epoxide resin for glues. The Borden Company. 580,834, Oct. 6; Serial No. 642,342, published July 7, 1953.

CLASS 6

Chemical composition. Sun Chemical Corporation. 580,796, Oct. 6; Serial No. 637,731, published July 7, 1953.
Chemical compound. F. F. Forrest. 580,694, Oct. 6; Serial No. 618,350, published July 7, 1953.
Combination package of a moth repellent closet deodorant. The Diversey Corporation. 580,667, Oct. 6; Serial No. 603,772, published July 7, 1953.
Enzyme preparation. Takamine Laboratory, Inc. 580,843–4, Oct. 6; Serial Nos. 643,051–2, published July 7, 1953.
Exothermic compound. Exomet, Incorporated. 580,841, Oct. 6; Serial No. 643,034, published July 7, 1953.
Fatty acids, Double distilled animal, double distilled corn oil fatty acids, etc. W. C. Hardesty Co., Inc. 580,811, Oct. 6; Serial No. 639,114, published July 7, 1953.
Fatty alcohols. Archer-Daniels-Midland Company. 580,747, Oct. 6; Serial No. 631,139, published July 7, 1953.
Insecticide and fly killer. H. W. Baldwin. 307,299, renewed Oct. 24, 1953. O. G. Oct. 6
Insecticides. Community Exterminating Corp. 549,228, Oct. 9, 1951. Canceled July 24, 1953. O. G. Oct. 6.
Insecticides. Gairee Products Company, Inc. 580,710, Oct. 6; Serial No. 622,889, published July 7, 1953.
Leather belt dressing and conditioner. Graton & Knight Company. 580,749, Oct. 6; Serial No. 631,286, published July 7, 1953.
Material for use in locating cracks and defects in porous bodies. Magnaflux Corporation. 580,716, Oct. 6; Serial No. 624,939, published July 7, 1953.
Natural black or vegetable black, a substitute for lampblack. Industrial Chemical Company. 92,339, re-renewed July 1, 1953. O. G. Oct. 6.
Pest control pads—namely, chemically treated pads for killing insects. V. S. Babcock. 580,741, Oct. 6; Serial No. 630,570, published July 7, 1953.
Polyvinyl alcohol. Chemische Forschungsgesellschaft m. b. H. 580,830, Oct. 6; Serial No. 641,247, published July 7, 1953.
Resinous composition. Eutectic Welding Alloys Corporation. 580,740, Oct. 6; Serial No. 630,484, published July 7, 1953.
Room deodorant. Gairee Products Company, Inc. 580,706, Oct. 6; Serial No. 622,648, published July 7, 1953.
Room deodorant. Reefer-Galler, Incorporated. 580,707, Oct. 6; Serial No. 622,655, published July 7, 1953.
Solvent and cleaner, Chemical. Petroleum Solvents Corporation. 425,615–16, Nov. 26, 1946. Republished Oct. 6.
Synthetic resins and synthetic resinous compositions. Monsanto Chemical Company. 580,731, Oct. 6; Serial No. 627,369, published July 7, 1953.
Wool oil. Swift & Company. 580,791, Oct. 6; Serial No. 636,865, published June 23, 1953.

CLASS 8

Pipes, Smokers'. London House, Ltd. 308,432, renewed Dec. 5, 1953. O. G. Oct. 6.

CLASS 10

Compost activators and accelerating materials and fertilising materials. 580,793, Oct. 6; Serial No. 637,102, published July 7, 1953.
Friable glass-like substances in finely divided form containing essential plant foods for use as a fertiliser. Ferro Corporation. 580,721, Oct. 6; Serial No. 626,027, published July 7, 1953.
Plant food and soil conditioner, Combination. Oswego Soy Products Corporation. 580,833, Oct. 6; Serial No. 641,635, published July 7, 1953.

CLASS 11

Inks, Printing. A. B. Dick Company. 580,863, Oct. 6; Serial No. 624,724.
Inks, Printing. Kohl & Madden Printing Ink Co. Inc. 580,862, Oct. 6; Serial No. 619,974.

CLASS 12

Awnings, Ventilated metal. C. E. Watson. 546,833, Aug. 21, 1951. Canceled July 24, 1953. O. G. Oct. 6.
Bituminous composition, Waterproofing and insulating. Spring Packing Corporation. 580,717, Oct. 6; Serial No. 625,494, published June 23, 1953.
Ceiling constructions. C. C. Drury. 580,686–7, Oct. 6; Serial Nos. 616,904–5, published May 19, 1953.
Cements. Southwestern Portland Cement Company. 580,772, Oct. 6; Serial No. 634,611, published June 23, 1953.
Comminuted scrap material to be used as an additive ingredient for incorporation in drilling muds for oil wells, etc. Brooks Paper Company. 580,677, Oct. 6; Serial No. 610,507, published June 23, 1953.
Concrete aggregate, Lightweight, lightweight structural concrete aggregate, etc. Southern Lightweight Aggregate Corporation. 580,654, Oct. 6; Serial No. 575,306, published Apr. 17, 1951.
Doors, sash, and moldings. Pacific Mutual Door Company. 92,823, re-renewed July 29, 1953. O. G. Oct. 6.
Fired on ceramic color glaze, underglaze, overglaze, etc. Tru-Fyre Laboratories. 580,662, Oct. 6; Serial No. 598,513, published June 23, 1953.
Floor plates and angle plates. Acme Steel Company. 580,809, Oct. 6; Serial No. 638,824, published June 23, 1953.
Glass fibrous matted material, etc. The Vitron Corporation. 437,173, Mar. 9, 1948. Canceled Aug. 12, 1953. O. G. Oct. 6.
Grandstands, Folding. Wayne Iron Works. 308,719, renewed Dec. 19, 1953. O. G. Oct. 6.
Mixture of Portland cement and other materials. Higgins, Inc. 580,649, Oct. 6; Serial No. 525,319, published June 16, 1953.
Pens and corrals and gates therefor, stalls and partitions therefor, etc. Starline Inc. 580,800, Oct. 6; Serial No. 638,036, published July 7, 1953.
Plywood. Multnomah Plywood Corporation. 580,762, Oct. 6; Serial No. 633,315, published July 7, 1953.
Protective covering for pipes, etc., Flexible. The Treaton Corporation. 580,673, Oct. 6; Serial No. 608,182, published June 23, 1953.
Structural elements, Metallic. Dexion Limited. 580,676, Oct. 6; Serial No. 610,168, published June 23, 1953.
Tile, Interior decorative wall. Peerless Plastics. 580,806, Oct. 6; Serial No. 638,551, published July 7, 1953.
Tile, Plastic composition flooring. The Flintkote Company. 580,665, Oct. 6; Serial No. 603,291, published Nov. 6, 1951.
Tile, Plastic wall. American Radiator & Standard Sanitary Corporation. 580,757, Oct. 6; Serial No. 632,348, published June 16, 1953.
Wall and ceiling panels, Fabricated. Marsh Wall Products, Inc. 580,778, Oct. 6; Serial No. 635,605, published June 23, 1953.

CLASS 13

Awning arms, Lateral. The Astrup Company. 305,957, renewed Aug. 29, 1953. O. G. Oct. 6.
Percolators, Coffee making. West Bend Aluminum Co. 305,164, renewed Aug. 8, 1953. O. G. Oct. 6.

CLASS 14

Alloys of nickel, chromium, etc. Driver-Harris Company. 308,697, renewed Dec. 19, 1953. O. G. Oct. 6.
Sheet aluminum. Eureka Iron & Metal Company. 580,859, Oct. 6; Serial No. 614,404.

CLASS 15

Additive for heating oils and fuel oils. Richfield Oil Corporation. 580,730, Oct. 6; Serial No. 627,358, published June 23, 1953.

Antirust preparation and lubricant. The Mosler Safe Company. 223,707, Feb. 8, 1927. Republished Oct. 6.
Fuel oil additives and combustion catalysts. A. Masurkiewicz. 580,712, Oct. 6; Serial No. 623,772, published June 23, 1953.
Gasoline, kerosene, lubricating oils, soluble oil, etc. American Oil Company. 580,683, Oct. 6; Serial No. 613,662, published June 23, 1953.
Mineral wax. Strohmeyer & Arpe Company. 94,503, re-renewed Dec. 9, 1953. O. G. Oct. 6.
Oil, Lubricating, lubricating greases, and gasoline. Deep Rock Oil Corporation. 580,661, Oct. 6; Serial No. 597,069, published June 23, 1953.

CLASS 16

Paint, Green paste. Heath & Milligan Mfg. Co. 92,981, re-renewed Aug. 12, 1953. O. G. Oct. 6.
Paint, Rubber base. Mautz Paint & Varnish Co. 580,879, Oct. 6; Serial No. 640,520.
Paints, Ready mixed, paste paints, dry paints, etc. E. I. du Pont de Nemours and Company. 305,531, renewed Aug. 22, 1953. O. G. Oct. 6.

CLASS 17

Cigarettes. P. Lorillard Company. 580,875, Oct. 6; Serial No. 634,852.
Cigars. Bieringer-Hanauer Co. 580,873, Oct. 6; Serial No. 634,571.

CLASS 18

Air purifying preparations, antiseptics, antiseptic preparations, etc. West Disinfecting Company. 303,478, renewed May 23, 1953. O. G. Oct. 6.
Anticholinergic compound. American Cyanamid Company. 580,827, Oct. 6; Serial No. 640,770, published June 23, 1953.
Antiseptic powder. Stomaseptine Company. 307,471, renewed Oct. 24, 1953. O. G. Oct. 6.
Enema solution, Liquid. Clyserol Laboratories, Inc. 580,790, Oct. 6; Serial No. 636,839, published June 23, 1953.
Fat-soluble vitamin concentrates, vitamin-containing solids. Nopco Chemical Company. 580,672, Oct. 6; Serial No. 606,791, published June 23, 1953.
Headache powders. Blackstone Remedies Co. 306,659, renewed Sept. 26, 1953. O. G. Oct. 6.
Medical preparation. Drug Specialties, Inc. 580,761, Oct. 6; Serial No. 633,148, published June 23, 1953.
Medicinal preparation. The Dr. J. H. McLean Medicine Company. 128,776, Jan. 13, 1920. Republished Oct. 6.
Medicinal preparation. The Dr. J. H. McLean Medicine Company. 222,812, Jan. 11, 1927. Republished Oct. 6.
Medicinal preparation. The Dr. J. H. McLean Medicine Company. 232,728, Sept. 13, 1927. Republished Oct. 6.
Medicinal preparations and products. The Dr. J. H. McLean Medicine Company. 128,775, Jan. 13, 1920. Republished Oct. 6.
Medicines or preparations designed and intended as remedies. The Dr. J. H. McLean Medicine Company. 115,456, Feb. 13, 1917. Republished Oct. 6.
Preparation consisting of a colloidal suspension of kaolin in alumina hydroxide. John Wyeth & Brother, Incorporated. 306,187, renewed Sept. 12, 1953. O. G. Oct. 6.
Preparation for bathing and massaging the skin to aid in preventing bed sores, etc. Abbott Laboratories. 580,780, Oct. 6; Serial No. 635,867, published June 23, 1953.
Preparation for the treatment of eczema, etc. A. A. Wilkinson. 308,118, renewed Nov. 21, 1953. O. G. Oct. 6.
Preparation for treatment of gallstones. F. G. Nightingale. 580,805, Oct. 6; Serial No. 638,546, published June 23, 1953.
Remedial agent for stomach and muscular troubles. F. A. Chapa. 64,451, Aug. 6, 1907. Republished Oct. 6.
Tablets used to relieve drowsiness and mental fatigue. J. Eisenberg. 580,713, Oct. 6; Serial No. 624,028, published June 23, 1953.
Tonic, Vitaminised iron. Benevim Corporation. 580,718, Oct. 6; Serial No. 625,634, published June 23, 1953.
Vitamin preparation. J. H. Austin. 580,770, Oct. 6; Serial No. 634,362, published June 23, 1953.

CLASS 19

Automotive vehicle registration certificate holder. Cobbs Manufacturing Company. 580,872, Oct. 6; Serial No. 634,183.
Lifeboats. Continental Copper & Steel Industries, Inc. 580,699, Oct. 6; Serial No. 620,871, published July 7, 1953.
Motorcycles. Ateliers de la Motobecane. 580,688, Oct. 6; Serial No. 617,072, published July 7, 1953.
Motorcycles. La Motoconfort. 580,689, Oct. 6; Serial No. 617,086, published July 7, 1953.
Strollers, Baby, baby carriages, baby coaches, etc. Storkline Furniture Corporation. 580,801, Oct. 6; Serial No. 638,169, published July 7, 1953.

CLASS 21

Alkali-vaporous discharge tubes. FKG Fritz Kesselring Geratebau A. G. 557,966, Apr. 22, 1952. Canceled Aug. 28, 1953. O. G. Oct. 6.
Antennas, Radio and television. Macon Electronics, Division of York Radio & Television Corp. 580,870, Oct. 6; Serial No. 633,989.
Electric portable valve seat grinders and parts thereof. The Black & Decker Manufacturing Company. 306,961, renewed Oct. 10, 1953. O. G. Oct. 6.
Electrical apparatus. The Pyle-National Company. 580,871, Oct. 6; Serial No. 634,113.

CLASS 22

Fishing lines. B. F. Gladding & Company, Inc. 580,851–2, Oct. 6; Serial Nos. 645,980–1, published July 7, 1953.
Golf clubs. The Horton Manufacturing Company. 305,867, renewed Aug. 29, 1953. O. G. Oct. 6.
Model or miniature railway cars and equipment. Mantua Metal Products Co., Inc. 580,849, Oct. 6; Serial No. 645,048, published June 23, 1953.
Playing cards. Russell Playing Card Co. 94,671, re-renewed Dec. 23, 1953. O. G. Oct. 6.
Swivels for overhead suspension of punching bags. Healthways. 580,714, Oct. 6; Serial No. 624,487, published July 7, 1953.
Toys, Children's. Mattel, Incorporated. 580,818, Oct. 6; Serial No. 640,073, published June 16, 1953.

CLASS 23

Attachments adapted to be mounted upon the rear of grain combines. American Iron Works, Inc. 580,674, Oct. 6; Serial No. 608,733, published Feb. 17, 1953.
Change speed gears for motor cars. M. Massarotti. 580,680, Oct. 6; Serial No. 612,266, published Mar. 10, 1953.
Compressed air operated machines, compressed air operated hammers, etc. Heinrich Flottmann G. m. b. H. 580,669, Oct. 6; Serial No. 604,847, published Apr. 28, 1953.
De-aeration apparatus. The Rotareaed Corporation. 580,670, Oct. 6; Serial No. 606,440, published Apr. 28, 1953.
Device for causing an admixture of air and water vapor to flow into the intake manifold of an internal combustion engine. The Robinson Company. 580,700, Oct. 6; Serial No. 621,578, published Apr. 14, 1953.
Food mixers, beaters and whippers, Hand-operated. Rival Manufacturing Company. 580,733, Oct. 6; Serial No. 627,901, published Feb. 24, 1953.
Machines used to mix and apply cementitious coatings to the following; buildings, building blocks and brick, etc. Colorcrete Industries, Incorporated. 580,681, Oct. 6; Serial No. 612,590, published Apr. 7, 1953.
Milling machine accessories. H. E. Begle. 580,742, Oct. 6; Serial No. 630,572, published Apr. 28, 1953.
Sprayers, Hand-operated compression. H. D. Hudson Manufacturing Company. 580,715, Oct. 6; Serial No. 624,745, published Feb. 3, 1953.
Spraying apparatus, Power operated, pneumatic. Elgin Sweeper Company. 580,724, Oct. 6; Serial No. 627,052, published Mar. 3, 1953.
Sprays, Hand. The Black Flag Company. 307,464, renewed Oct. 24, 1953. O. G. Oct. 6.
Tool, Combination hand. J. N. Amigone. 580,785, Oct. 6; Serial No. 636,266, published Apr. 14, 1953.
Tools, Air, air- and gas-lift pumps, core drills, etc. The Ingersoll-Rand Company. 580,703, Oct. 6; Serial No. 622,056, published Apr. 21, 1953.
Typewriter covers. Ames Supply Company. 580,709, Oct. 6; Serial No. 622,879, published Apr. 28, 1953.
Typewriting machines and typewriting machine parts. Underwood Elliott Fisher Company. 308,014, renewed Nov. 14, 1953. O. G. Oct. 6.
Vending machines, Coin-controlled. Watling Scale Company. 306,087, renewed Sept. 5, 1953. O. G. Oct. 6.

CLASS 24

Washing machines, Laundry, and laundry dryers. Marshall-Wells Company. 580,840, Oct. 6; Serial No. 642,827, published June 23, 1953.

CLASS 25

Safes and safety cabinets. The Mosler Safe Company. 222,533, Jan. 4, 1927. Republished Oct. 6.
Safes, Portable and built in place, safety cabinets, bank vaults, etc. The Mosler Safe Company. 352,592, Dec. 7, 1937. Republished Oct. 6.

CLASS 26

Cameras, Motion picture, motion picture film processors, etc. General Precision Laboratory Incorporated. 580,779, Oct. 6; Serial No. 635,762, published July 7, 1953.
Cameras, Motion picture, motion picture film processors, etc. General Precision Laboratory Incorporated. 580,781, Oct. 6; Serial No. 635,961, published July 7, 1953.
Controllers for controlling temperature, pressure, etc., Pneumatic, automatic. Taylor Instrument Companies. 580,746, Oct. 6; Serial No. 631,073, published July 7, 1953.
Counters and registers. Veeder-Root Incorporated. 580,695, Oct. 6; Serial No. 619,858, published May 5, 1953.
Gages, Dial. Federal Products Corporation. 580,783, Oct. 6; Serial No. 636,169, published July 7, 1953.
Industrial fluoroscopic and radiographic apparatus, and parts thereof. X-Ray Products Corporation. 580,826, Oct. 6; Serial No. 640,705, published July 7, 1953.

Instruments and apparatus for detection, indication, or measurement of nuclear or other radiation. I. W. Ruderman. 580,795, Oct. 6; Serial No. 637,724, published July 7, 1953.
Light controlling attachments for eyeglasses. Rand Rubber Company, Inc. 580,696, Oct. 6; Serial No. 619,950, published July 7, 1953.
Photographic film, Sensitized, sensitized motion-picture film, etc. Eastman Kodak Company. 580,829, Oct. 6; Serial No. 640,923, published July 7, 1953.
Photographic film, Sensitized, sensitized photographic paper, sensitized photographic plates, etc. Eastman Kodak Company. 580,828, Oct. 6; Serial No. 640,922, published July 7, 1953.
Photographic papers, plates, etc., Sensitized. Gevaert Photo-Producten. 305,304, renewed Aug. 15, 1953. O. G. Oct. 6.
Rule, Calibrated. Broadcast Music, Inc. 580,804, Oct. 6; Serial No. 638,469, published June 30, 1953.
Scales, Weighing. S. M. Lewis. 580,708, Oct. 6; Serial No. 622,666, published July 7, 1953.
Weighing machines, Coin-controlled. Watling Scale Company. 306,060, renewed Sept. 5, 1953. O. G. Oct. 6.
Well logging apparatus for indicating and recording the earth formation penetrated in the course of the drilling for oil and gas wells and the like. Well Instrument Developing Co. 580,752, Oct. 6; Serial No. 631,832, published July 7, 1953.

CLASS 27

Watches and watch parts. Merit Watch Company, Inc. 580,675, Oct. 6; Serial No. 609,491, published May 19, 1953.
Watches, clocks, clocks and watches of any kind. Fratelli Borletti Societa per Azioni. 580,701, Oct. 6; Serial No. 621,624, published May 19, 1953.

CLASS 28

Fraternity badges, lapel buttons, etc. Phi Alpha Theta. 307,765, renewed Oct. 31, 1953. O. G. Oct. 6.
Fraternity pins, badges, buttons, etc. Sigma Phi Delta Fraternity. 580,745, Oct. 6; Serial No. 630,856, published May 19, 1953.
Gems, Synthetic precious and semi-precious. W. S. Pardee. 580,693, Oct. 6; Serial No. 618,325, published May 19, 1953.
Jewelry, Costume, and ornaments. Carol Antell, Inc. 580,723, Oct. 6; Serial No. 627,032, published May 19, 1953.
Jewelry, Ladies' costume. Robert Allen Company. 580,728, Oct. 6; Serial No. 627,239, published May 19, 1953.
Lapel emblems, belt buckles, tie clasps, etc. Veterans of Foreign Wars of the United States. 580,685, Oct. 6; Serial No. 616,261, published May 19, 1953.
Watch bands. Jacques Kreisler Manufacturing Corporation. 580,825, Oct. 6; Serial No. 640,638, published May 19, 1953.

CLASS 29

Powder puffs. Bourjois, Inc. 308,895, renewed Dec. 26, 1953. O. G. Oct. 6.

CLASS 30

China tableware. Easterling China Company. 580,692, Oct. 6; Serial No. 618,206, published May 19, 1953.
Chinaware and porcelain items. The Rosenthal-Block China Corporation. 580,792, Oct. 6; Serial No. 636,944, published Apr. 14, 1953.
Pottery bowls, jars, and vases. Stephen Leeman Products Corporation. 301,768, renewed Mar. 14, 1953. O. G. Oct. 6.

CLASS 32

Cabinets, Wall. The F. H. Lawson Company. 580,866, Oct. 6; Serial No. 632,992.
Furniture, Upholstered. Globe Parlor Furniture Co. 580,878, Oct. 6; Serial No. 637,770.
Inner spring units for mattresses and cushions. Kay Manufacturing Corporation. 381,478, Sept. 24, 1940. Republished Oct. 6.
Mattresses. Superior Felt & Bedding Co. 306,577, renewed Sept. 26, 1953. O. G. Oct. 6.

CLASS 33

Glass, Patterned architectural. Binswanger & Co., Incorporated. 580,759, Oct. 6; Serial No. 632,592, published May 26, 1953.

CLASS 35

Metal sheets intended for making gaskets. Detroit Gasket & Manufacturing Company. 580,823, Oct. 6; Serial No. 640,502, published July 7, 1953.
Shims. Laminated Shim Company, Incorporated, 580,764, Oct. 6; Serial No. 633,545, published July 7, 1953.
Tires. Tide Water Associated Oil Company. 580,846, Oct. 6; Serial No. 643,197, published July 7, 1953.
Tires, Hollow and solid rubber. Ungarische Gummiwaarenfabriks Actiengesellschaft. 94,774, re-renewed Dec. 30, 1953. O. G. Oct. 6.
Tires, Pneumatic rubber, pneumatic tire casings, and tubes. The Pep Boys—Manny, Moe & Jack. 375,999, Mar. 12, 1940. Republished Oct. 6.

CLASS 36

Phonograph records, Grooved. E. R. French. 580,857, Oct. 6; Serial No. 600,262.

CLASS 37

Paper. The Northwest Paper Company. 378,221–2, June 4, 1940. Canceled Aug. 12, 1953. O. G. Oct. 6.
Paper and cloth, Gummed. McLaurin-Jones Co. 308,658, renewed Dec. 12, 1953. O. G. Oct. 6.
Paper, etc., Mineral coated. The Champion Paper and Fibre Company. 504,285, Nov. 30, 1948. Canceled Aug. 28, 1953. O. G. Oct. 6.
Paper, Hectograph, typewriter, copying, and wrapping, etc. Vivid, Incorporated. 304,835, renewed July 18, 1953. O. G. Oct. 6.
Pens, Mechanical, and mechanical pencils. David Kahn, Inc. 580,874, Oct. 6; Serial No. 634,851.

CLASS 38

Books. The Kingsway Press, Inc. 443,588, Dec. 6, 1949. Republished Oct. 6.
Books, magazines, pamphlets, and topical law reporters. Commerce Clearing House, Inc. 428,904, Apr. 8, 1947. Republished Oct. 6.
Magazine. Basic Publications, Inc. 435,391, Dec. 23, 1947. Republished Oct. 6.
Magazine. The Kingsway Press, Inc. 371,636, Oct. 3, 1939. Republished Oct. 6.
Magazine. Your Health Publications, Inc. 368,733, June 27, 1939. Republished Oct. 6.
Magazine. Your Health Publications, Inc. 407,397, June 6, 1944. Republished Oct. 6.
Newspapers. The Washington Post Company. 66,538, Dec. 10, 1907. Republished Oct. 6.
Publication, Periodical. The Kingsway Press, Inc. 354,483, Feb. 15, 1938. Republished Oct. 6.

CLASS 39

Bathing caps, bathing suits, and bathing slippers. G. Adams. 580,799, Oct. 6; Serial No. 637,978, published June 30, 1953.
Berets. Kangol Wear Limited. 580,815, Oct. 6; Serial No. 639,757, published June 30, 1953.
Brassières, garter belts, girdles, and waist cinchers. Garden Foundations, Inc. 580,690, Oct. 6; Serial No. 617,189, published June 24, 1952.
Caps, Men's. Imperial Cap Works. 580,880, Oct. 6; Serial No. 642,972.
Dresses and suits, Women's. Franklin Dress Co., Inc. 580,650, Oct. 6; Serial No. 530,184, published June 30, 1953.
Dresses, coats, and suits, Children's, misses', and ladies'. Morris W. Haft & Bros. Inc. 241,180, Apr. 17, 1928. Republished Oct. 6.
Dresses, Ladies'. Lucky Star Fashions, Inc. 580,659, Oct. 6; Serial No. 396,737, published Nov. 11, 1952.
Dungarees. New England Overall Co. Inc. 580,807, Oct. 6; Serial No. 638,598, published July 7, 1953.
Dungarees, Women's and girls'. New England Overall Co. Inc. 580,808, Oct. 6; Serial No. 638,599, published July 7, 1953.
Girdles, Step-in. Lewel Mfg. Co. Inc. 305,555, renewed Aug. 22, 1953. O. G. Oct. 6.
Hosiery. Chipman Knitting Mills. 580,868–9. Oct. 6; Serial No. 633,566–7.
Hosiery, Ladies'. Mutual Buying Syndicate, Inc. 580,691, Oct. 6; Serial No. 617,308, published June 30, 1953.
Knitted apparel, Men's, women's and children's. Forstmann Woolen Company. 580,698, Oct. 6; Serial No. 620,844, published June 30, 1953.
Knitwear, Children's. Southern Knitwear Mills, Inc. 580,788, Oct. 6; Serial No. 636,747, published June 30, 1953.
Pajamas and other nightwear. Rice-Stix Dry Goods Co. 308,754, renewed Dec. 19, 1953. O. G. Oct. 6.
Pants, Water repellent baby. Rand Rubber Company, Inc. 580,820. Oct. 6; Serial No. 640,169, published June 30, 1953.
Rubbers, Toe, heel strip rubbers, and half rubbers. Gem Rubber Corporation. 580,697, Oct. 6; Serial No. 620,397, published June 30, 1953.
Shirts, Outer. PAJ Manufacturing Co. 580,736, Oct. 6; Serial No. 629,117, published June 30, 1953.
Shoes, Women's. M. Beckerman & Sons, Inc. 580,877, Oct. 6; Serial No. 636,270.
Soles for shoes, Middle. Endicott Johnson Corporation. 304,575, renewed July 11, 1953. O. G. Oct. 6.
Suits, coats, slacks, etc., Men's. A. Sagner's Son. 580,787. Oct. 6; Serial No. 636,540, published June 30, 1953.
Suits, sportcoats, slacks, etc., Men's and boys'. Pincus Bros. Incorporated. 580,734, Oct. 6; Serial No. 628,167, published June 30, 1953.
Sweaters, Men's and women's. The Bernhard Altmann Texas Corporation. 580,816, Oct. 6; Serial No. 639,867, published June 30, 1953.
Sweaters, skirts, jackets, etc., Ladies'. Empire Imports, Inc. 580,821, Oct. 6; Serial No. 640,198, published June 30, 1953.
Underwear and sleeping garments. Walter W. Moyer Company. 580,860, Oct. 6; Serial No. 616,438,

CLASS 40

Needles, Hand sewing, pins, snap fasteners, etc. Federated Department Stores, Inc. 580,735, Oct. 6; Serial No. 628,754, published June 16, 1953.

CLASS 42

Cheesecloth. Sage Laboratories, Inc. 580,722, Oct. 6; Serial No. 626,049, published July 7, 1953.
Curtains, Window and shower, draperies and textile rugs, etc. Home Specialty Co. 580,668, Oct. 6; Serial No. 603,845, published June 30, 1953.
Fabric, Rubberized. W. S. Libbey Company. 308,382, renewed Dec. 5, 1953. O. G. Oct. 6.
Fabrics, Window shade. Joseph Bancroft & Sons Co. 304,828, renewed July 18, 1953. O. G. Oct. 6.
Piece goods, Woolen, and woolen suitings and coatings. Morris W. Haft & Brothers, Inc. 295,674, July 5, 1932. Republished Oct. 6.
Sheets, pillowcases, crib covers, etc. Georg Jensen Inc. 580,648, Oct. 6; Serial No. 504,366, published Sept. 14, 1948.
Towels, Linen, sheets, table-cloths, etc. S. H. Kress & Co. 308,289, renewed Nov. 28, 1953. O. G. Oct. 6.

CLASS 44

Artificial teeth. H. D. Justi & Son, Inc. 580,756, Oct. 6; Serial No. 632,251, published July 7, 1953.
Bandages. Johnson & Johnson. 580,847, Oct. 6; Serial No. 643,963, published July 7, 1953.
Device consisting of a combination of rollers for massaging tired feet. W. C. Hunneman, Jr. 580,845, Oct. 6; Serial No. 643,162, published July 7, 1953.
Hair driers, electric heating pads, manicure scissors and syringes. Federated Department Stores, Inc. 580,774, Oct. 6; Serial No. 634,936, published July 7, 1953.
Prophylactic rubber articles. Julius Schmid, Inc. 580,760, Oct. 6; Serial No. 633,124, published July 7, 1953.
Sacroiliac supports. Piper Brace Co. 580,838, Oct. 6; Serial No. 642,688, published July 7, 1953.
Sanitary belts. Will Ross, Inc. 580,739, Oct. 6; Serial No. 630,445, published July 7, 1953.
Sanitary napkin belts. Personal Products Corporation. 580,720, Oct. 6; Serial No. 625,816, published July 7, 1953.
Sanitary napkins, sanitary belts, sanitary panties, etc. Aldens, Inc. 580,882, Oct. 6; Serial No. 647,683.
Vaginal jelly applicators. Julius Schmid, Inc. 580,812, Oct. 6; Serial No. 639,193, published July 7, 1953.

CLASS 46

Almonds, Shelled, plain. G. W. Stiefvater. 580,658, Oct. 6; Serial No. 593,373, published June 16, 1953.
Bakery goods. Helms Bakeries. 577,134, July 7, 1953. Canceled Aug. 21, 1953. O. G. Oct. 6.
Bread, cakes and pies. Dugan Brothers of New Jersey, Inc. 304,548, renewed July 11, 1953. O. G. Oct. 6.
Bread, fresh, canned, and frozen fruits and vegetables. Milgram Food Stores Inc. 580,664, Oct. 6; Serial No. 601,303, published July 7, 1953.
Butter. Litchfield Creamery Co. 580,753, Oct. 6; Serial No. 631,936, published July 7, 1953.
Candy. J. G. Huter. 580,865, Oct. 6; Serial No. 631,666.
Candy, Licorice. National Licorice Company. 307,065, renewed Oct. 10, 1953. O. G. Oct. 6.
Canned fish. Wm. H. Stanley, Inc. 240,665, Apr. 3, 1928. Republished Oct. 6.
Canned mandarin oranges. M. Kimura. 580,813, Oct. 6; Serial No. 639,430, published July 7, 1953.
Canned tuna fish, sardines, and kippered herrings. Biddle Purchasing Company. 580,751, Oct. 6; Serial No. 631,785, published May 26, 1953.
Canned vegetables. Dickinson & Co. 306,957, renewed Oct. 10, 1953. O. G. Oct. 6.
Cheese. N. Dorman & Co., Inc. 580,881, Oct. 6; Serial No. 645,784.
Cocoa. N. V. Bensdorp. 580,682, Oct. 6; Serial No. 613,154, published July 7, 1953.
Coffee. Well & Company. 580,652, Oct. 6; Serial No. 571,626, published July 7, 1953.
Cookies. Schulze and Burch Biscuit Co. 580,861, Oct. 6; Serial No. 619,854.
Doughnut mix, Raised. Pillsbury Mills, Inc. 580,856, Oct. 6; Serial No. 585,187.
Farm produce, General fresh. H. C. West & Sons. 580,704, Oct. 6; Serial No. 622,135, published June 23, 1953.
Feeds, Bird. Hartz Mountain Products. 580,719, Oct. 6; Serial No. 625,798, published July 7, 1953.
Flour, Pancake, bran muffin mix, biscuit mix, etc. Hilker & Bletsch Company. 580,824, Oct. 6; Serial No. 640,631, published July 7, 1953.
Flour, Wheat. International Milling Company. 132,001, June 8, 1920. Republished Oct. 6.
Flour, Wheat. International Milling Company. 132,179, June 15, 1920. Republished Oct. 6.
Flour, Wheat. Wilkins-Rogers Milling Co., Inc. 304,505, renewed July 11, 1953. O. G. Oct. 6.
Food colors, gelatine desserts, chocolate, vanilla, butter scotch, etc., puddings, etc. David Kleckner & Son, Inc. 580,660, Oct. 6; Serial No. 596,848, published June 16, 1953.
Fruit, Fresh citrus. Larry Lightner, Inc. 580,814, Oct. 6; Serial No. 639,478, published July 7, 1953.
Fruits, Fresh. Earl Fruit Company. 303,234, renewed May 16, 1953. O. G. Oct. 6.
Fruits, Fresh citrus. Chase Investment Company. 306,361, renewed Sept. 19, 1953. O. G. Oct. 6.
Fruits, Fresh citrus. Deerfield Groves Company. 580,831, Oct. 6; Serial No. 641,370, published July 7, 1953.
Fruits, Fresh deciduous, and fresh vegetables. Jackson & Walton. 580,850, Oct. 6; Serial No. 645,486, published July 7, 1953.
Marmalade. James Keiller & Son, Ltd., Inc. 580,651, Oct. 6; Serial No. 549,935, published June 23, 1953.
Meat and meat products. Westinghouse Electric Corporation. 580,655, Oct. 6; Serial No. 587,136, published July 21, 1953.
Nuts, Salted. E. F. Kemp Corp. 580,817, Oct. 6; Serial No. 639,939, published July 7, 1953.
Pickles, jams, jellies, etc. Famous Virginia Foods, Inc. 580,848, Oct. 6; Serial No. 644,227, published June 30, 1953.
Popcorn, Packaged, unpopped. The Ellis Popcorn Company. 580,743, Oct. 6; Serial No. 630,652, published July 7, 1953.
Pop corn, Raw unpopped. Confections, Incorporated. 580,737, Oct. 6; Serial No. 629,719, published June 23, 1953.
Seasoning. Attorney General of the United States, Office of Alien Property, Department of Justice. 580,656, Oct. 6; Serial No. 587,461, published July 7, 1953.
Shortening. Lookout Oil and Refining Company. 580,726–7, Oct. 6; Serial Nos. 627,199–200, published June 16, 1953.
Soy bean oil for use in foods. C. L. Iorns. 303,191, renewed May 16, 1953. O. G. Oct. 6.
Sweet-spread for bread, toast, muffins, etc. G. B. Products, Inc. 580,705, Oct. 6; Serial No. 622,256, published July 7, 1953.
Whole wheat products—namely, bread raisin bread, sandwich loaf bread, etc. 100%. Dugan Brothers of New Jersey, Inc. 305,246, renewed Aug. 8, 1953. O. G. Oct. 6.

CLASS 47

Wines. B. Cribari & Sons. 307,453, renewed Oct. 24, 1953. O. G. Oct. 6.
Wines. Fruit Industries, Ltd. 305,609, renewed Aug. 22, 1953. O. G. Oct. 6.
Wines. Fruit Industries, Ltd. 307,386, renewed Oct. 24, 1953. O. G. Oct. 6.

CLASS 49

Gin. James Burrough Limited. 308,053, renewed Nov. 21, 1953. O. G. Oct. 6.
Liqueur. Cointreau Pere et Fils. 94,714, re-renewed Dec. 30, 1953. O. G. Oct. 6.
Spirits comprising whisky and other potable distilled liquors. Edward Young & Co., Limited. 308,313, renewed Nov. 28, 1953. O. G. Oct. 6.
Whiskey. Pennsylvania Distilling Co., Inc. 308,778, renewed Dec. 19, 1953. O. G. Oct. 6.
Whisky, Scotch. R. H. Thomson & Co. (Distillers) Limited. 580,763, Oct. 6; Serial No. 633,339, published July 7, 1953.

CLASS 50

Christmas tree ornaments. Gordon Plastic Products Corp. 580,864, Oct. 6; Serial No. 630,005.
Sole material for shoes, Middle. Endicott Johnson Corporation. 303,528, renewed May 30, 1953. O. G. Oct. 6.

CLASS 51

Cologne, after-shaving lotion, hair lotion, etc. The Lambert Company. 580,773, Oct. 6; Serial No. 634,790, published June 23, 1953.
Dentifrices, solid and liquid brilliantine, toilet powders, etc. Societa in Accomandita Semplice Franco Cella & C. 580,663, Oct. 6; Serial No. 599,538, published June 23, 1953.
Face powder, perfumes, lipsticks, etc. D. A. Davis. 580,732, Oct. 6; Serial No. 627,867, published July 7, 1953.
Gasoline additive. Hastoge Laboratories, Inc. 580,782, Oct. 6; Serial No. 636,127, published June 23, 1953.
Hair and scalp conditioner. Sulfur-8 Chemical Co., Inc. 580,702, Oct. 6; Serial No. 621,917, published June 16, 1953.
Hair remover, Superfluous. Jean Jordeau, Inc. 580,653, Oct. 6; Serial No. 674,147, published May 19, 1953.
Lipstick and make-up preparations. Campana Corporation. 416,326, Sept. 4, 1945. Republished Oct. 6.
Lipstick and nail enamel. Revlon Products Corporation. 580,794, Oct. 6; Serial No. 637,401, published July 7, 1953.
Lipstick, nail enamel, face powder, etc. Revlon Products Corporation. 580,771, Oct. 6; Serial No. 634,605, published June 23, 1953.
Lotion and neutralizer, Permanent wave. Sales Affiliates, Inc. 580,858, Oct. 6; Serial No. 609,606.
Lotion, Skin. The Mennen Company. 580,657, Oct. 6; Serial No. 592,328, published June 23, 1953.
Massage cream, peach bloom facial tint, cuticle cream, etc. H. D. Roche. 580,768–9, Oct. 6; Serial Nos. 634,345–6, published June 23, 1953.
Perfume, toilet water, face powder, etc. Coty, Inc. 305,360, renewed Aug. 15, 1953. O. G. Oct. 6.

Perfumes, bay rum, hair dressings, etc. Cheatham Chemical Company. 580,775, Oct. 6; Serial No. 635,348, published July 7, 1953.
Perfumes, hair tonic, face lotion, etc. Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H. 580,776, Oct. 6; Serial No. 635,569, published June 30, 1953.
Perfumes, toilet creams, eau de cologne, etc. S. A. Myrurgia. 417,507, Oct. 30, 1945. Republished Oct. 6.
Perfumes, toilet creams, eau de cologne, etc. S. A. Myrurgia. 428,645, Apr. 1, 1947. Republished Oct. 6.
Perfumes, toilet water, face powder, etc. S. A. Myrurgia. 336,092, June 23, 1936. Republished Oct. 6.
Preparation for removing superfluous hair. Elizabeth Arden, Inc. 308,048, renewed Nov. 21, 1953. O. G. Oct. 6.
Preparation for setting the hair, conditioning the scalp, etc. J. W. Bailey. 580,765, Oct. 6; Serial No. 633,750, published June 30, 1953.
Preparations for repairing, preserving, and beautifying finger nails and toe nails. Juliette Margien, Inc. 580,754–5, Oct. 6; Serial Nos. 632,165–6, published June 23, 1953.
Scalp stimulant and hair dressing. J. De Carlo. 580,758, Oct. 6; Serial No. 632,467, published June 23, 1953.
Tooth powder. Makers of Kal, Inc. 580,867, Oct. 6; Serial No. 633,458.

CLASS 52

Cleaning material. United Supply Company. 93,501, re-renewed Sept. 16, 1953. O. G. Oct. 6.
Cleaning preparations, Metal. All-Sil Welding Metals, Inc. 580,684, Oct. 6; Serial No. 614,918, published June 23, 1953.
Composition of solvents and detergents. General Dyestuff Corporation. 580,839, Oct. 6; Serial No. 642,812, published July 7, 1953.
Detergent. P. M. Gottfried. 580,822, Oct. 6; Serial No. 640,337, published July 7, 1953.
Detergents, Mixture of. E. F. Drew & Co., Inc. 580,744, Oct. 6; Serial No. 630,834, published July 7, 1953.
Shampoo. Charles Antell, Inc. 580,789, Oct. 6; Serial No. 636,760, published July 7, 1953.
Shampoo. Consolidated Cosmetics. 580,836, Oct. 6; Serial No. 642,526, published July 7, 1953.
Shampoo. The Odell Company, Inc. 580,842, Oct. 6; Serial No. 643,045, published July 7, 1953.
Soap. Fabergé, Inc. 580,819, Oct. 6; Serial No. 640,152, published July 7, 1953.
Soap, Liquid. Manufacturing Laboratories, Inc. 580,777, Oct. 6; Serial No. 635,603, published July 7, 1953.
Soap, Powdered hand. Lien Chemical Company. 580,678, Oct. 6; Serial No. 610,696, published July 7, 1953.
Soap, Toilet. S. A. Myrurgia. 420,827, May 7, 1946. Republished Oct. 6.
Soap, Toilet. Swiss Pine Importing Co., Inc. 580,837, Oct. 6; Serial No. 642,579, published July 7, 1953.
Soaps. S. A. Myrurgia. 336,093, June 23, 1936. Republished Oct. 6.
Soaps, Toilet. Les Parfums de Dana, Inc. 580,767, Oct. 6; Serial No. 634,259, published July 7, 1953.
Soaps, Toilet. S. A. Myrurgia. 185,086, June 10, 1924. Republished Oct. 6.
Soaps, Toilet. S. A. Myrurgia. 418,365, Dec. 18, 1945. Republished Oct. 6.
Solvent and cleaner, Chemical. Petroleum Solvents Corporation. 425,615–16, Nov. 26, 1946. Republished Oct. 6.
Solvents. G. S. Blakeslee & Co. 304,878, renewed July 18, 1953. O. G. Oct. 6.

CLASS 100

Leasing of electrical equipment. General Electric X-Ray Corporation. 580,853, Oct. 6; Serial No. 589,309, published July 7, 1953.

CLASS 103

Shoe shine and shoe repair service, Door to door. H. C. Frank. 580,883, Oct. 6; Serial No. 638,358.
Spraying liquid plastic on wood, plaster, stucco, etc. Progressive Industries, Inc. 580,855, Oct. 6; Serial No. 636,381, published July 7, 1953.

CLASS 104

Radio program broadcasting. Booth Radio & Television Stations, Inc. 580,854, Oct. 6; Serial No. 627,800, published July 7, 1953.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 6TH DAY OF OCTOBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Borg-Warner Corporation, assignee: *See*—
Gillespie, Daniel C.
Coombs, Robert S., San Francisco, Calif. Automatic signal system for motorcars. Re. 23,719, Oct. 6.
Gillespie, Daniel C., Oak Park, assignor to Borg-Warner Corporation, Chicago, Ill. Electrical connector. Re. 23,720, Oct. 6.

LIST OF PLANT PATENTEES

Jackson & Perkins Company, assignee: *See*—
Kordes, Wilhelm.
Kordes, Wilhelm, Holstein, Germany, assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 1,219, Oct. 6.

LIST OF DESIGN PATENTEES

Amwell Full Fashioned Hosiery Company, Inc., assignee: *See*—
Rickert, Melvin A.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Murty, Otis G.
Barry, Morris, Lakewood, N. J. Toy vehicle. 170,516, Oct. 6.
Bateman, James, Kearny, N. J. Collapsible tube stand. 170,517, Oct. 6.
Behr, Siegfried F., Flushing, N. Y. Combined ear ornament and hair ornament. 170,518, Oct. 6.
Beroset, Gerard, Toledo, Ohio. Shoehorn. 170,519, Oct. 6.
Boji, Louis, Wadena, Iowa, and P. J. Oslac, Chicago, Ill., assignors to McGregor Electronic Industries, Inc., McGregor, Iowa. Radio receiver casing. 170,520, Oct. 6.
Brooks, Albert N., Chicago, Ill. Piggy bank. 170,521, Oct. 6.
Brown, Harold D., Gridley, Kans. Combined cleaning tissue and lamp housing. 170,522, Oct. 6.
Brown, Roy, Chicago, Ill. Table or similar article. 170,523, Oct. 6.
Clarke Sanding Machine Company, assignee: *See*—
Petersen, William L.
Cohen, Bernard, Brooklyn, N. Y. Child's phonograph. 170,524, Oct. 6.
Colmar, Philip, assignor to G. and D. Jacobi, doing business as Premier Gem Company, New York, N. Y. Cuff link or similar article. 170,525, Oct. 6.
Crosby, Hazel H., assignee: *See*—
Love, Blanton D.
Curtis, Lyda D., assignee. *See*—
Steadman, John C.
Del Mas, Christy M., assignor to M. P. Grace, New York, N. Y. Finger ring for holding perfume. 170,526, Oct. 6.
Del Mas, Christy M., assignor to M. P. Grace, New York, N. Y. Harmonica ring. 170,527, Oct. 6.
Eljer Co., assignee: *See*—
Hendrickson, James M.
Grace, Michael P., assignee: *See*—
Del Mas, Christy M.
Hamilton, Kenneth C., assignor to Milwaukee Lace Paper Company, Milwaukee, Wis. Place mat or similar article. 170,528, Oct. 6.
Hämmerli, Emil, Toronto, Ontario, Canada. Hinge. 170,529, Oct. 6.
Hendrickson, James M., Kittanning, assignor to Eljer Co., Ford City, Pa. Lavatory. 170,530, Oct. 6.
Hennig, August J., and W. L. Waechter, Chicago, Ill. Game board. 170,531, Oct. 6.
Hommer, Julius J., Union, N. J. Handbag. 170,532, Oct. 6.
Irwin, Cadwell C., assignor to Red Comet, Incorporated, Littleton, Colo. Holder for fire extinguisher grenade. 170,533, Oct. 6.
Jacobi, David, assignee: *See*—
Colmar, Philip.
Jacobi, George, assignee: *See*—
Colmar, Philip.
Johnson, Arthur E. and I. W., Los Angeles, Calif. Knife sharpener. 170,534, Oct. 6.
Johnson, George W., assignor to Pabco Products Inc., San Francisco, Calif. Hard surface floor covering or similar article. 170,535, Oct. 6.
Johnson, Irene W.: *See*—
Johnson, Arthur E. and I. W.
Kaupmann, Frederick, Brooklyn, N. Y., assignor to Ronson Art Metal Works, Inc., Newark, N. J. Cigar lighter or similar article. 170,536, Oct. 6.
Lanning, Jack H., Washington, D. C. Combined can and bottle opener. 170,537, Oct. 6.
Lockheed Aircraft Corporation, assignee: *See*—
Paul, John L.
Love, Blanton D., assignor to H. H. Crosby, Houston, Tex. Combined urinal holder and deodorant cap. 170,538, Oct. 6.
Lovejoy, Charles K., assignor to Scripto, Inc., Atlanta, Ga. Ball-point pen. 170,539, Oct. 6.
Massey-Harris Co. Ltd., assignee: *See*—
McIntosh, Lawrie G.
McGregor Electronic Industries, Inc., assignee: *See*—
Boji, Louis, and Oslac.
McIntosh, Lawrie G., assignor to Massey-Harris Co. Ltd., Toronto, Ontario, Canada. Cream separator. 170,540, Oct. 6.
Miles, Ralph F., Pasadena, Calif. Game board. 170,541, Oct. 6.
Milwaukee Lace Paper Company, assignee: *See*—
Hamilton, Kenneth C.
Moeglich, Arthur T., Jackson Heights, N. Y. Pincushion. 170,542, Oct. 6.
Murty, Otis G., Riverdale, Md., assignor to the United States of America as represented by the Secretary of the Army. Boot. 170,543, Oct. 6.
Nalle, George S., Jr., Austin, Tex. Combined clasp and hook. 170,544, Oct. 6.
Oslac, Paul J.: *See*—
Boji, Louis, and Oslac.
Pabco Products Inc., assignee: *See*—
Johnson, George W.
Palo, Maurice M., Conneaut, Ohio. Base for a portable microphone or the like. 170,545, Oct. 6.
Paul, John L., Los Angeles, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Self-adjusting personal protective shield. 170,546, Oct. 6.
Petersen, William L., assignor to Clarke Sanding Machine Company, Muskegon, Mich. Sanding machine. 170,547, Oct. 6.
Premier Gem Company, assignee: *See*—
Colmar, Philip.
Red Comet, Incorporated, assignee: *See*—
Irwin, Caldwell C.
Rickert, Melvin A., assignor to Amwell Full Fashioned Hosiery Company, Inc., Lambertville, N. J. Lady's stocking. 170,548, Oct. 6.
Ronson Art Metal Works, Inc., assignee: *See*—
Kaupmann, Frederick.

Rude, Jack H. and M. E., Steele, Mo. Earring. 170,549, Oct. 6.
Rude, Mary E.: *See*—
Rude, Jack H. and M. E.
Saenz, Oscar L., assignor to Vinewood Products, Inc., Los Angeles, Calif. Table. 170,550, Oct. 6.
Schneeloch, Paul, New York, N. Y. Plate. 170,551, Oct. 6.
Scripto, Inc., assignee: *See*—
Lovejoy, Charles K.
Sherman, Rubin, Lowell, Mass. Child's shoe. 170,552, Oct. 6.
Silvestri, Eli, Pittsburgh, Pa. Lamp base. 170,553, Oct. 6.
Squarcio, Joseph G., Denver, Colo. Crayon sharpener or the like. 170,554, Oct. 6.
Steadman, John C., Jacobsburg, Ohio, assignor to L. D. Curtis, McMechen, W. Va. Wire spacing device. 170,555, Oct. 6.
Sterling, Florence J., assignor to Sterling-Freeland Industries Inc., Chicago, Ill. Cabinet. 170,556, Oct. 6.
Sterling-Freeland Industries Inc., assignee: *See*—
Sterling, Florence J.
Swan, Harold A., Coronado, Calif. Combined blotter and stamp box. 170,557, Oct. 6.
Swan, Harold A., Coronado, Calif. Combined blotter and ash tray. 170,558, Oct. 6.
Thompson, James L., North Little Rock, Ark. Polishing machine. 170,559, Oct. 6.
Tree, Charles, Racine, Wis. Milling machine. 170,560, Oct. 6.
Tupper, Earl S., Upton, Mass. Combined cakeholder and cover therefor or similar article. 170,561, Oct. 6.
Tupper, Earl S., Upton, Mass. Combined canister and cover. 170,562, Oct. 6.
Vinewood Products, Inc., assignee: *See*—
Saenz, Oscar L.
Waechter, William L.: *See*—
Hennig, August J., and Waechter.
Zipkin, Sylvia, Philadelphia, Pa. Educational device. 170,563, Oct. 6.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 6TH DAY OF OCTOBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aasland, John L., Moline, Ill., assignor to International Harvester Company. Remote operator for wagon elevator throw-out clutches. 2,654,258, Oct. 6.
Abbott Laboratories, assignee: *See*—
Weston, Arthur W.
Acme Steel Company, assignee: *See*—
Winkler, Alvin L.
Adams Rite Manufacturing Company, assignee: *See*—
Grizzard, Earle D., Collar, and Mitchell.
Adamson United Company, assignee: *See*—
Muller, Johan A.
Adcock, Horace R., Shirley, Birmingham, assignor to A. C. Wickman Limited, Tile Hill, Coventry, England. Automatic drilling mechanism. 2,654,270, Oct. 6.
Addage Limited, assignee: *See*—
Evans, Cyril H.
Adelson, David E., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Organic ammonium hydrosulfide-hydrogen sulfide reaction products and producing the same. 2,654,733, Oct. 6.
Adkins, Homer B., Madison, Wis., assignor to the United States of America as represented by the Secretary of the Navy. Preparation of dialkyl glycolurils. 2,654,763, Oct. 6.
Adorney, Charles S., Forest Hills, L. D. Gill, Brooklyn, N. Y., and J. G. McIlvain, Jr., Downingtown, Pa., assignors to Oakite Products, Inc., New York, N. Y. Dispensing box. 2,654,525, Oct. 6.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Rehberg, Chessie E., and Fisher.
Agule, George J., Stamford, assignor to Machlett Laboratories Incorporated, Springdale, Conn. Sealing the envelopes of vacuum tubes. 2,654,822, Oct. 6.
Ahern, Jack A., executor: *See*—
Wilson, Frank C., and Silliman.
Ahlijian, Kirk, Cranston, R. I., assignor to Fram Corporation. Center core seal for filter elements. 2,654,483, Oct. 6.
Aircraft-Marine Products Inc., assignee: *See*—
Swengel, Robert C.
Air Force, United States of America as represented by the Secretary of the, assignee: *See*—
Petersen, Clifford C.
Ajam, Mustafa J., Amherst, N. H., and C. A. Bergman, Melrose, assignors to Standard Duplicating Machines Corporation, Everett, Mass. Stripper pin for sheet feeding machines. 2,654,600, Oct. 6.
Ake, Paige W., and J. T. Lester, Tampa, Fla., said Ake assignor to said Lester. Antipuckering means for sofa bed upholstery. 2,654,099, Oct. 6.
Aktiebolaget Dixma, assignee: *See*—
Lydfors, John.
Aktiebolaget Svenska Kullagerfabriken, assignee: *See*—
Ruiet, John T.
Aktiengesellschaft Brown, Boveri & Cie, assignee: *See*—
Wideröe, Rolf.
Zaba, Tadeusz.
Aktieselskabet Volund, assignee: *See*—
Brabaek, Jorgen.
Albright, Edward G., Jr., Lynwood, Calif. Universal sheave block. 2,654,571, Oct. 6.
Allen, George W., assignor to Bendix Aviation Corporation, South Bend, Ind. Valve mechanism. 2,654,392, Oct. 6.
Allen, Howard G., Niagara Falls, G. E. Gampp, Kenmore, and H. D. Smith, Buffalo, N. Y., assignors to American Machine & Foundry Company. Band-applying machine. 2,654,520, Oct. 6.
Allenson, George T.: *See*—
Berry, Edward J., and Allenson.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Hoesch, Elmer D., and Matters.
Murphy, Bernard J.
Rettaliata, John T.
Altemiller, Arthur D., Affton, Mo., assignor to Hercules Steel Products Corporation, Galion, Ohio. Popcorn machine. 2,654,823, Oct. 6.
Aluminum Company of America, assignee: *See*—
Michel, Mathias.
American Cyanamid Company, assignee: *See*—
Colthup, Norman B., and Torley.
Cresswell, Arthur.
Dixon, James K., and Woodberry.
Fahrenbach, Marvin J.
Innes, William B.
Lecher, Hans Z., and Kuh.
Lontz, John F.
Price, John A.
American Home Products Corporation, assignee: *See*—
Bruce, William F., and Selfter.
American Hospital Supply Corporation, assignee: *See*—
Heyward, Mary E.
American Machine & Foundry Company, assignee: *See*—
Allen, Howard G., Gampp, and Smith.
Stearns, Joseph L., and Hoffman.
American Metal Products Company, assignee: *See*—
Degener, Richard K.
American Seating Company, assignee: *See*—
Nordmark, Walter E.
American Steel Foundries, assignee: *See*—
Walcher, Alfred.
American Telephone and Telegraph Company, assignee: *See*—
Shepherd, Judson O'D.
American Type Founders, Inc., assignee: *See*—
Clay, John W.
Pollock, Willard M.
Ammlung, Louis C., Jr., Philadelphia, Pa., and J. A. Tourtellot, Merchantville, N. J., assignors to Philco Corporation, Philadelphia, Pa. Phonograph control means. 2,654,457, Oct. 6.
Ammon, Johannes H., Akron, Ohio, assignor to The Babcock & Wilcox Company, New York, N. Y. Fluid separator. 2,654,351, Oct. 6.
Anable, Wallace E.: *See*—
Banning, Lloyd H., and Anable.
Anderson, Robert J.: *See*—
Noon, T. Cyril, and Anderson.
Andress, Harry J., Jr., Woodbury, and F. L. Nelson, Pitman, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Motor fuel. 2,654,697, Oct. 6.
Animal Trap Company of America, assignee: *See*—
Graybill, Hershey R.
Annesley, Griffith, assignor to H. E. Annesley, Portland, Oreg. Detachable rock drill bit. 2,654,573, Oct. 6.
Annesley, Helen E., assignee: *See*—
Annesley, Griffith.
Anschuetz, Harvey J., Plymouth, assignor to Kaiser-Frazer Corporation, Willow Run, Mich. Fender skirt. 2,654,617, Oct. 6.
Anthony Company, assignee: *See*—
Duis, Glenn A., and Park.
Antonioli, Peter, Jr., and A. Johnson, Butte, Mont. Pressure cooker. 2,654,501, Oct. 6.
Archer, Farley J., and T. E, Linden, Mo. Swinging spout structure. 2,654,390, Oct. 6.
Archer, Timothy E.: *See*—
Archer, Farley J., and T. E.
Armantrout, Kenneth M.: *See*—
Orr, Palmer, and Armantrout.
Armour Research Foundation of Illinois Institute of Technology, assignee: *See*—
Camras, Marvin.
Arutunoff, Armais, Bartlesville, Okla. Drilling apparatus. 2,654,572, Oct. 6.
Arvidson, Bengt A.: *See*—
Corley, Mark H., Arvidson, and Barber.
Atlas Manufacturing Company, assignee: *See*—
Hyams, Herbert B.
Atlas Powder Company, assignee: *See*—
McGirr, Robert.
Taylor, William J.
Atwood, John B., Riverhead, N. Y., assignor to Radio Corporation of America. Frequency shift receiver. 2,654,801, Oct. 6.
Aubert, Fred B., Grosse Pointe, Mich. Combustion heating apparatus and controls therefor. 2,654,422, Oct. 6.
Auriol, Eloi, Toulouse, France. Power press and the like thrust-controlled machines. 2,654,264, Oct. 6.
Austin, Emery H., Stuart, Fla. Road actuated safety signal for vehicles. 2,654,876, Oct. 6.
Austin Hoy & Company Limited, assignee: *See*—
Proctor, Sidney E.

Auten, Howard L., East Peoria, Ill. Diaphragm closure for paste shoe polish container equipped with a dauber. 2,654,110, Oct. 6.

Avco Manufacturing Corporation, assignee: *See*—
Burke, Louis L.

Ayerst, McKenna & Harrison, Limited, assignee: *See*—
Von Seemann, Carl, and Grant.

Azorlosa, Julian L., assignor to Hercules Powder Company, Wilmington, Del. Paper product and its preparation. 2,654,671, Oct. 6.

Babcock & Wilcox Company, The, assignee: *See*—
Ammon, Johannes H.

Backhouse, Headley T., Sunningdale, England. Sheet-supporting machine. 2,654,602, Oct. 6.

Bacon, John H., Wellesley, Mass. Bird whistle. 2,654,179, Oct. 6.

Bailey Meter Company, assignee: *See*—
Whitehead, Cyril C.

Baird Machine Company, The, assignee: *See*—
Lewis, Arthur J.

Baker, Leonard, Hillsdale, N. J., assignor to Dexter Folder Company, Pearl River, N. Y. Photoprinting apparatus. 2,654,300, Oct. 6.

Ball, Charles F., and R. T. Hair, Franklin, Pa., assignors to Joy Manufacturing Company. Control valve mechanism. 2,654,382, Oct. 6.

Ball, Charles F., and R. T. Hair, Franklin, Pa., assignors to Joy Manufacturing Company. Cable reeling mechanism. 2,654,547, Oct. 6.

Ball, Fred S., Montgomery, Ala. Boat propelling and steering mechanism. 2,654,335, Oct. 6.

Balogh, Roy O.: *See*—
Humpal, Eugene G., and Balogh.

Banning, Lloyd H., and W. E. Anable, Albany, Oreg., assignors to the United States of America as represented by the Solicitor of the Department of the Interior. Tristage crystallization and hydrolysis process for recovering vanadium phosphorus, and chromium from ferrophosphorus and like materials. 2,654,655, Oct. 6.

Barber-Colman Company, assignee: *See*—
Drake, Russell P.
Drnek, John L.

Barber, Ralph F.: *See*—
Corley, Mark H., Arvidson, and Barber.

Barényi, Béla, Stuttgart-Rohr, Germany. Leaf spring for motor vehicles. 2,654,597, Oct. 6.

Barnes, Gwynn D., San Antonio, Tex. Dip stick wiper. 2,654,109, Oct. 6.

Barnhart, Mearl L., Vincent, Tex. Apparatus for measuring suspended pipe sections upon derricks. 2,654,155, Oct. 6.

Barr, George, assignor to A. V. Smith, New York, N. Y. Musical instrument. 2,654,283, Oct. 6.

Bassick Company, The, assignee: *See*—
Claud-Mantle, Arthur.

Bathurst, Thomas T., Miami, Fla., assignor to R. Randall and C. O. Fields, Kansas City, Mo. Sickle bar type lawn mower. 2,654,200, Oct. 6.

Batten, Percy H., trustee, assignee: *See*—
Boestad, Gustav K. W. and Eriksson.

Bauer, John K.: *See*—
Rich, Edward L., Bauer, and Dengel.

Beamer, John D., Milford, and J. Bidak, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Sectional wall clip. 2,654,449, Oct. 6.

Beaudry, George D., and J. T. Longdon, Chicago, Ill., and T. R. Brink, Michigan City, Ind., assignors to International Harvester Company. Ball bearing washing machine. 2,654,378, Oct. 6.

Beck, Cyrus, Philadelphia, Pa. Load compensated transfer valve. 2,654,348, Oct. 6.

Beck, Francis X., Woodbury, and H. T. Bent, Jr., Merchantville, N. J., assignors to Radio Corporation of America. Converter circuit. 2,654,836, Oct. 6.

Becker, Philip D., Hingham, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Caster. 2,654,113, Oct. 6.

Bedford, William A., Jr., North Scituate, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Bolt with clip retaining means. 2,654,411, Oct. 6.

Beers, George J.: *See*—
Kachelski, Albert F., Crimion, and Beers.

Bell, Alan and B. Thompson, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. 2,2-dimethylpropanediol - 1,3 di - (2 - ethylhexanoate). 2,654,775, Oct. 6.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Edson, Robert C.
Knandel, George J.
Rea, Wilton T.

Beloit Iron Works, assignee: *See*—
Hornbostel, Lloyd.

Bemis Bro. Bag Company, assignee: *See*—
Kindseth, Harold V.

Bendix Aviation Corporation, assignee: *See*—
Allen, George W.
House, Bryan E.
Price, Earl R.

Benedict, Walter E., Newton, and J. G. Van Sciver, Philadelphia, Pa., assignors, by mesne assignments, to Congoleum-Nairn Inc., Kearney, N. J. Method and machine for making inlaid products. 2,654,415, Oct. 6.

Bennett, Alfred H., Hyde Park, Pa. Spring support attachment. 2,654,100, Oct. 6.

Bennett, Thomas R., Kingsbury, London, England, assignor to R. Hoe & Co. Inc., New York, N. Y. Web-renewing mechanism. 2,654,545, Oct. 6.

Benson, Ary A., Oakland, Calif. Air-cooled brake. 2,654,448, Oct. 6.

Bent, Harold T., Jr.: *See*—
Beck, Francis X., and Bent.

Berger, Charles V., Western Springs, Ill., and D. D. Hansen, Shreveport, La., assignors to Universal Oil Products Company, Chicago, Ill. Nonregenerative catalytic reforming process. 2,654,694, Oct. 6.

Bergman, Carl A.: *See*—
Ajam, Mustafa J., and Bergman.

Bergmann, Ernst R., Evergreen Park, assignor to Goodman Manufacturing Company, Chicago, Ill. Articulated connection for shaker conveyers. 2,654,467, Oct. 6

Berry, Charles E., Fairmont, W. Va., assignor to Goodman Manufacturing Company, Chicago, Ill. Digging machine for mining coal. 2,654,586, Oct. 6.

Berry, Edward J., Cranston, and G. T. Allenson, Lincoln, R. I., assignors to Draper Corporation, Hopedale, Mass. Filling motion for shuttleless looms. 2,654,399, Oct. 6.

Bestian, Herbert, assignor to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius und Bruning, Frankfurt am Main Hochst, Germany. Preparing derivatives of ethyleneimine. 2,654,737, Oct. 6.

Bidak, John: *See*—
Beamer, John D., and Bidak.

Birtman Electric Company, assignee: *See*—
Hulfish, Buford W.

Bishop, James R. T., Chicago, and D. E. Swanson, Evanston, Ill., assignors to International Minerals & Chemical Corporation. Holder for condiment jars. 2,654,485, Oct. 6.

Bisner, Edward H., and P. P. Gallagher, Hollywood, Fla. Wheel-like seating device. 2,654,418, Oct. 6.

Bituminous Coal Research, Inc., assignee: *See*—
Yellott, John I.

Black, James G., assignor to A. C. Nielsen Company, Chicago, Ill. Remote radio receiver tuning indicating apparatus. 2,654,651, Oct. 6.

Blair, Cecil L., and R. L. Fox, Waterloo, assignors to Deere Manufacturing Co., Dubuque, Iowa. Implement and trailer hitch. 2,654,613, Oct. 6.

Blank, Robert E.: *See*—
Grummitt, Oliver J., Blank, and Marsh.

Blokolgas System, Inc., assignee: *See*—
Fitzpatrick, Stephen L.

Blum Bros. Box Company, assignee: *See*—
Blum Paul L.

Blum, Paul L., assignor to Blum Bros. Box Company, Marshfield, Wis. Circular wood box. 2,654,499, Oct. 6.

Boestad, Gustav K. W., and E. O. Eriksson, Lidingo, Sweden, assignors, by mesne assignments, to J. C. Marble, L. M. Merrill, and P. H. Batten, as trustees. Apparatus for directing air to combustion products turbines. 2,654,220, Oct. 6.

Bogdanffy, George W., C. O. Mitchell, and H. C. Uhlig, Clifton, assignors, by mesne assignments, to Howe Twister Corporation, Jersey City, N. J. Apparatus for cabling threads. 2,654,210, Oct. 6.

Bohmker, Thomas W., Geneseo, assignor to Deere & Company, Moline, Ill. Draft control mechanism. 2,654,301, Oct. 6.

Bombardier, Joseph A., Valcourt, Quebec, Canada. Tensioning device for tractors. 2,654,639, Oct. 6.

Bonomi, Ottorino: *See*—
Corradini, Robert E., Lynch, Bonomi, and Engel.

Borden Company, The, assignee: *See*—
Miollis, Raymond.

Borg-Warner Corporation, assignee: *See*—
Day, George W.
Minshall, Robert J.
Orr, Palmer, and Armantrout.
Youngren, Harold T., and Hettinger.

Borkoski, Leon P., Stamford, Conn., assignor to Electrolux Corporation, New York, N. Y. Automatic vacuum cleaner. 2,654,439, Oct. 6.

Borucki, Eugene J., assignor to Container Corporation of America, Chicago, Ill. Display carton. 2,654,470, Oct. 6.

Boswau, Hans P., Dundee, and A. C. Reid, Genoa, assignors to Leich Electric Company, Genoa, Ill. Telephone set. 2,654,811, Oct. 6.

Bovio, Ilario, Ivrea, Italy. Automatic ink-ribbon reversal mechanism for typewriters and printing business machines. 2,654,461, Oct. 6.

Bowen, Billi, New York, N. Y., and C. L. Metzler, Palisades Park, N. J., assignors to The Gillette Company. Safety razor. 2,654,149, Oct. 6.

Bowen, Daniel W., Tampa, assignor to Miracle-Vac, Inc., Miami, Fla. Hair drier attachment for vacuum cleaners. 2,654,161, Oct. 6.

Bower Roller Bearing Company, assignee: *See*—
McMullan, Orin W.

Bowman, A. B., assignee: *See*—
Smith, Robert L.

Boyd, Winnett, Bobcaygeon, Ontario, and J. T. Purvis, Toronto, Ontario, assignors to A. V. Roe Canada Limited, Ontario, Ontario, Canada. Turbine nozzle guide vane construction. 2,654,566, Oct. 6.

Boyer, Ralph K., assignor to The Dill Manufacturing Company, Cleveland, Ohio. Tire tread gauge. 2,654,156, Oct. 6.

Boyle, Ralph C.: *See*—
Ferguson, Henry A., Boyle, and Jedrzykowski.

Brabaek, Jorgen, assignor to Aktieselskabet Volund, Copenhagen, Denmark. Treating mixture containing materials and apparatus therefor. 2,654,159, Oct. 6.

Braid, Murray D., Painesville, assignor to Thompson Products, Inc., Cleveland, Ohio. Rebound hardness measuring device. 2,654,244, Oct. 6.

Bransky, David W.: *See*—
Lemmon, Norman E., Schuessler, and Bransky.

Brennish, John, Philipsburg, Pa. Protecting shield or towel. 2,654,092, Oct. 6.

Brenton, George, Corona, N. Y. Fumbleless lamp switch. 2,654,817, Oct. 6.

Briggs, Harry H., assignee: *See*—
Oliver, John G.

Briggs Manufacturing Co., assignee: *See*—
Zummach, Karl G.

Brill, Otto H., and F. Solomon, assignors to Yardney International Corp., New York, N. Y. Electrode for electric batteries and making same. 2,654,795, Oct. 6.

Brink, Norman G.: *See*—
Koniusny, Frank R., Brink, and Folkers.

Brink, Theodore R.: *See*—
Beaudry, George D., Longdon, and Brink.

British Celanese Limited, assignee: *See*—
Fisher, James W., Wheatley, and May.

Brooks, T. J. (Autos), Limited, assignee: *See*—
Heyne, William O.

Brown-Graves Company, assignee: *See*—
Graves, Harold E., Jr.

Brown, Henry, assignor to The Udylite Corporation, Detroit, Mich. Electrodeposition of bright nickel, cobalt, and alloys thereof. 2,654,703, Oct. 6.

Brown, Henry, and L. B. High, assignors to The Udylite Corporation, Detroit, Mich. Electroplating of nickel. 2,654,704, Oct. 6.

Brubaker, Damon P., and F. E. Woodley, San Bernardino, Calif., assignors to The National Cash Register Company, Baltimore, Md. Ordinally-selective key-responsive cycle initiating mechanism. 2,654,539, Oct. 6.

Bruce, William F., Havertown, and J. Seifter, Willow Grove, Pa., assignors, by mesne assignments, to American Home Products Corporation, New York, N. Y. Substituted glycinamides. 2,654,754, Oct. 6.

Brucker, Henry J.: *See*—
Klausmann, Milton H., and Brucker.

Bullard Company, The, assignee: *See*—
Bullard, Edward P.

Bullard, Edward P., Fairfield, Conn., assignor to The Bullard Company. Way construction. 2,654,640, Oct. 6.

Burbank, Wendell T., and C. T. Colgren, assignors to Sutherland Paper Company, Kalamazoo, Mich. Machine for manufacturing container elements and the like. 2,654,343, Oct. 6.

Burke, Louis L., Connersville, Ind., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Severable counter top for kitchen cabinet installation. 2,654,648, Oct. 6.

Buron, Harry A., assignor to Arthur D. Little, Inc., Cambridge, Mass. Making lightweight aggregate. 2,654,137, Oct. 6.

Burtner, Robert R., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. Derivatives of cycloalkylbenzoylaralkanoic acids. 2,654,778, Oct. 6.

Busby, Stanley J., London, England. Apparatus for vacuum filling of containers. 2,654,523, Oct. 6.

C. V. A. Jigs, Moulds & Tools Limited, assignee: *See*—
Pulman, William E. R.

Calder, Caesar A., Roseland, N. J. Manual shirt folding device. 2,654,511, Oct. 6.

Calderon, Edwin R., and G. W. Slomin, Los Angeles, Calif. Plating aluminum. 2,654,701, Oct. 6.

Caldwell, Carlyle G., Forest Hills, and O. B. Wursburg, Babylon, assignors to National Starch Products Inc., New York, N. Y. Stabilized starch derivatives. 2,654,736, Oct. 6.

Caldwell, William T., Moorestown, N. J., assignor to Eli Lilly and Company, Indianapolis, Ind. 2-sulfanilamido-5-aminopyrimidine and salts thereof. 2,654,753, Oct. 6.

California Research Corporation, assignee: *See*—
Hotten, Bruce W.

Caloiaro, Ozzie F., Rutland, Mass. Automobile wheel traction device. 2,654,412, Oct. 6.

Camras, Marvin, assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill. Magnetic sound apparatus. 2,654,809, Oct. 6.

Canter, George G., and Gilbert G., New York, N. Y. Bag seal. 2,654,624, Oct. 6.

Canter, Gilbert G.: *See*—
Canter, George G., and Gilbert G.

Carlisle, Willis C., and J. H. McCarvell, Houston, Tex., assignors to Macco Oil Tool Company, Inc. Treating well fluids. 2,654,436, Oct. 6.

Carlson, Harold A., University City, assignor to Carter Carburetor Corporation, St. Louis, Mo. Metering valve adjustment. 2,654,389, Oct. 6.

Carlson, John I., Aurora, Ill., assignor to Carlson Tool & Machine Company. Conveyer chain link. 2,654,464, Oct. 6.

Carlson Tool & Machine Company, assignee: *See*—
Carlson, John I.

Carpenter, James R., Fort Worth, Tex., assignor to Container Corporation of America, Chicago, Ill. Can package with handle. 2,654,475, Oct. 6.

Carson, Boyce G.: *See*—
Selman, Roland W., Jr., and Carson.

Carter Carburetor Corporation, assignee: *See*—
Carlson, Harold A.
Edelen, James L.

Carter, Lawrence T.: *See*—
Long, Nathan A., Carter, Lindley, Stadler, and Fogleman.

Carter, Sidney T., Worcester, Mass., assignor to Geo. J. Meyer Manufacturing Co., Cudahy, Wis. Bellows mechanism for pneumatic transfer pads for labeling machines. 2,654,497, Oct. 6.

Casco Products Corporation, assignee: *See*—
Johnson, Arthur A.

Case, Bernard C., Howell, assignor to Hanson-Van Winkle-Munning Company, Detroit, Mich. Nickel plating. 2,654,705, Oct. 6.

Cavadini, Alfredo: *See*—
Steinberg, Adalberto, and Cavadini.

Cesar, Jorge M., Monterrey, Mexico. Optical viewing device for night driving. 2,654,286, Oct. 6.

Champion Implements Corporation, assignee: *See*—
Duncan, Forrest M.

Chance, A. B., Company, assignee: *See*—
Hubbard, David C.

Chandler & Price Company, The, assignee: *See*—
Rupp, William C.

Chemstrand Corporation, The, assignee: *See*—
Lytton, Marion R.

Chicago Railway Equipment Company, assignee: *See*—
Wasberg, Axel.

Chicago Telephone Supply Corporation, assignee: *See*—
Veatch, Joseph G., Jr., and Daily.

Chim, A. G., assignee: *See*—
Weibel, Dominique.

Christensen, Christian, and G. B., New Rochelle, N. Y. Transparency viewing device. 2,654,173, Oct. 6.

Christensen, Geneva B.: *See*—
Christensen, Christian, and G. B.

Christensen, Niels A., South Euclid, Ohio. Coupling. 2,654,234, Oct. 6.

Christensen, William R., Newton Highlands, and C. E. Cross, East Sandwich, Mass. Lens ventilation in goggles structure. 2,654,090, Oct. 6.

Chrysler Corporation, assignee: *See*—
Beamer, John D., and Bidak.
Gleason, Thomas C.

Church, George T., assignor to Fretz-Moon Tube Company, Inc., Butler, Pa. Feed table for threaders, reamers, and other end-tooling operations. 2,654,463, Oct. 6.

Ciba Pharmaceutical Products, Incorporated, assignee: *See*—
Huebner, Charles F., and Scholz.
Miescher, Karl, and Marxer.

Cilag Limited, assignee: *See*—
Suter, Hans, Habicht, and Kündig.

Cincinnati Butchers' Supply Company, The, assignee: *See*—
Schmidt, Carl O., Jr.

Clark, Warren H., Glendale, Calif., assignor to United Aircraft Products, Inc., Dayton, Ohio. Combined power steering and shimmy dampening. 2,654,347, Oct. 6.

Claud-Mantle, Arthur, Trumbull, assignor to The Bassick Company, Bridgeport, Conn. Hood latch. 2,654,116, Oct. 6.

Clay, John W., Winston-Salem, N. C., assignor to American Type Founders, Inc. Sheet delivery mechanism. 2,654,604, Oct. 6.

Clearasite Corporation of America, Inc., assignee: *See*—
Tannenbaum, Morris L.

Clentimack, George E., Plainville, assignor to Whitin Machine Works, Whitinsville, Mass. Positive and constant-tension web letoff mechanism for textile machines. 2,654,236, Oct. 6.

Clifton Conduit Company, Inc., assignee: *See*—
Pearson, William S.

Clinton Foods Inc., assignee: *See*—
Skinner, Bronson C.

Closson, Rex D.: *See*—
Ligett, Waldo B., Closson, and Wolf.

Clutsom & Kemp Limited, assignee: *See*—
Haselton, George.

Cochin, John D., San Francisco, Calif. Vehicle axle supporting device. 2,654,444, Oct. 6.

Cohen, Oscar P., Chestnut Hill, and E. H. Rossin, Melrose, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo. Treatment of textiles and N-halogenated amine-aldehyde agents therefor. 2,654,720, Oct. 6.

Coles, Roger E., Union, assignor to International Business Machines Corporation, New York, N. Y. Rotary broach. 2,654,293, Oct. 6.

Colgren, Carl T.: *See*—
Burbank, Wendell T., and Colgren.

Collar, Frank R.: *See*—
Grizzard, Earle D., Collar, and Mitchell.

Collins, Aubrey L., Harrow, England. Protective guard for rotary fans. 2,654,533, Oct. 6.

Coluthup, Norman B., Stamford, and R. E. Torley, Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Apparatus for use in measuring surface tension. 2,654,243, Oct. 6.

Combustion Engineering, Inc., assignee: *See*—
Jackson, George P.
Ludt, Edward W.
Schoenfeld, David M.

Combustion Processes Company, assignee: *See*—
Urquhart, Norman J., and Rider.

Compagnie des Freins & Signaux Westinghouse, assignee: *See*—
Doucot, Roger.

Cones, Ben, Indianapolis, Ind. Accelerator and diffusing nozzle for ventilating stacks. 2,654,528, Oct. 6.

Congoleum-Nairn Inc., assignee: *See*—
Benedict, Walter E., and Van Sciver.

Connolly, Charles E., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Machine for marking statistical records by conductive marks. 2,654,459, Oct. 6.

Container Corporation of America, assignee: *See*—
Borucki, Eugene J.
Carpenter, James R.

Cooper, Philip A.: *See*—
Shagaloff, Harry C., and Cooper.

Cooper, Ross J., Toledo, Ohio. Pipe jack and adapter. 2,654,569, Oct. 6.

Cope, Lively O., Morganton, and W. H. Lowe, North Wilkesboro, N. C. Fishing line attachment. 2,654,177, Oct. 6.

Cork, Edward C., Ealing, London, assignor to Electric & Musical Industries Limited, Hayes, England. Electrical wave band pass circuits. 2,654,867, Oct. 6.

Corley, Mark H., River Forest, B. A. Arvidson, Villa Park, and R. F. Barber, Elmhurst, assignors to Miller Wrapping & Sealing Machine Co., Chicago, Ill. Combination sheeter and wrapper for package wrapping machines. 2,654,196, Oct. 6.

Corradini, Robert E., Madison, N. J., L. S. Lynch, Flushing, O. Bonomi, New York, N. Y., and G. C. Engel, Ridgewood, N. J., said Lynch, said Bonomi, and said Engel assignors to said Corradini. Automatic sanitary apparatus for dispensing measured quantities of liquid. 2,654,517, Oct. 6.

Costanzo, Carmen A., Vancouver, British Columbia, Canada. Surface marking device for containers. 2,654,311, Oct. 6.

Cottle, Delmer L.: *See*—
Young, David W., and Cottle.

Courtney, Joseph F., Evanston, and A. C. Radtke, Oak Park, Ill., assignors to International Harvester Company. Glass fiber drawing device. 2,654,182, Oct. 6.

Cox, Donald H.: *See*—
Runkle, George L., and Cox.

Cox, Harlan S., Danville, Ill. Billfold. 2,654,409, Oct. 6.

Crain, Robert L.: *See*—
Mueller, Robert A., and Crain.

Cramp, Alan P.: *See*—
Mitchell, Edward, and Cramp.

Crane Co., assignee: *See*—
Trefil, James.

Cremens, Leroy W., Pittsburgh, Pa. Railing. 2,654,579, Oct. 6.

Cresswell, Arthur, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Antistatic treatment of shaped articles comprising a vinyl resin and treated articles. 2,654,678, Oct. 6.

Crinion, Fred W.: *See*—
Kachelski, Albert F., Crinion, and Beers.

Cross, Carroll N., Middleboro, Mass. Supporting easel for display mounts. 2,654,554, Oct. 6.

Cross, Chester E.: *See*—
Christensen, William R., and Cross.

Csigi, Paul G., assignor, by mesne assignments, to Lico Manufacturing Co., Inc., Bridgeport, Conn. Rotary cutting machine. 2,654,430, Oct. 6.

Culleton, John T., Hayward, assignor to Pacific Pumping Company, Oakland, Calif. Apparatus for drying excavations. 2,654,434, Oct. 6.

Cunningham, Harry C., assignor to Edwin L. Wiegand Company, Pittsburgh, Pa. Electric heating. 2,654,825, Oct. 6.

Cunningham, James M., and A. F. Smith, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Alphabetic keyboard controller. 2,654,812, Oct. 6.

Curtin, Leo P., Cranbury, N. J. Manufacture of DDT. 2,654,790, Oct. 6.

Cutler-Hammer, Inc., assignee: *See*—
Feldhausen, Cyril P., Lommen, and Rouse.

Cyphers, Elmer B., Cranford, and A. E. Michaels, Linden, N. J., assignors to Standard Oil Development Company. Sulfurized monocycle terpenes and oil compositions containing them. 2,654,712, Oct. 6.

Dahl, Allan B.: *See*—
Olsson, Robert E. O., and Dahl.

Daily, Arthur M.: *See*—
Veatch, Joseph G., Jr., and Daily.

Daimler-Benz Aktiengesellschaft, assignee: *See*—
Nallinger, Friedrich K. H.

Daly, John J., Cheyenne, Wyo. Slack adjusting device for air brakes. 2,654,447, Oct. 6.

Darash, Nicholas P., assignor to The Warner & Swasey Company, Cleveland, Ohio. Shed closing and pick-back mechanism. 2,654,397, Oct. 6.

Davey, Leonard C., assignee.: *See*—
Magoon, Osborn P.

Davis, Charles B.: *See*—
Wister, Harry H. and J. W., and Davis.

Davis, Dean H., Longmont, Colo. Apparatus for centrifugal separation. 2,654,535, Oct. 6.

Davis, James A., Columbus, and L. W. Eastwood, Westerville, Ohio, assignors, by mesne assignments, to The Pennsylvania Salt Manufacturing Company. Flux for treating aluminum and aluminum alloys. 2,654,670, Oct. 6.

Davis, Ralph B., Prestonsburg, Ky. Multiple measuring spoon. 2,654,252, Oct. 6.

Day, George W., Glen Ellyn, assignor to Borg-Warner Corporation, Chicago, Ill. Storm window. 2,654,128, Oct. 6.

Deal, Raymond L., Hudson, Wis. Automatic fish set. 2,654,338, Oct. 6.

Dearborn Motors Corporation, assignee: *See*—
Peterson, Earl W.
Sawyer, Frederick D.
Wilson, Raymond W.

De Directie van de Staatsmijnen, assignee: *See*—
Driessen, Maximiliaan G.

De Directie van de Staatsmijnen in Limburg, assignee: *See*—
Visman, Jan.

Deere & Company, assignee: *See*—
Bohmker, Thomas W.
Ohlendorf, Emil F.
Pasturczak, Stanley F.

Deere, John, Van Brunt Company, assignee: *See*—
Starr, John H.

Deere Manufacturing Co., assignee: *See*—
Blair, Cecil L., and Fox.
Grosvenor, Dale D.

Deering Milliken Research Trust, assignee: *See*—
Savadelis, Ignatius C.

Degener, Richard K., Grosse Pointe Woods, assignors to American Metal Products Company, Detroit, Mich. Storage rack. 2,654,487, Oct. 6.

De La Mater, George B.: *See*—
Homeyer, August H., and De La Mater.

De Long, Herbert K., assignor to The Dow Chemical Company, Midland, Mich. Electrodeposition of metal from alkaline cyanide bath. 2,654,702, Oct. 6.

Demorest, Dana J.: *See*—
Nye, Ralph D., and Demorest.

Dengel, William E.: *See*—
Rich, Edward L., Bauer, and Dengel.

Denton, Bethel E., Merchantville, N. J., assignor to Radio Corporation of America. Automatic control for wave form. 2,654,855, Oct. 6.

De-Raef Corporation, assignee: *See*—
Selman, Roland W., Jr., and Carson.

Derby, Ralph E., Salem, Mass. Removing the skin from hogs. 2,654,122, Oct. 6.

Derby Sealers, Incorporated, assignee: *See*—
Krueger, Alfred P.

Derr, Willard A., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Remote-control system. 2,654,805, Oct. 6.

Detroit Stoker Company, assignee: *See*—
Moeshart, Donald J.

De Vlieg, Howard R., Grosse Pointe Woods, Mich. Offset boring head. 2,654,610, Oct. 6.

Dexter Folder Company, assignee: *See*—
Baker, Leonard.
Williams, Leo C.
Williams, Leo C., and Runge.

Dill Manufacturing Company, The, assignee: *See*—
Boyer, Ralph K.

Dixon, James K., Riverside, and N. T. Woodberry, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Animalization of cellulose. 2,654,715, Oct. 6.

Dobrowski, Allie P., Chicago, Ill. Manual control device for combine table elevators. 2,654,206, Oct. 6.

Donoghue, Florence F., Worcester, K. E. Sanderson, and J. D. Pigott, assignors to Draper Corporation, Hopedale, Mass. Filling replenishing means for looms. 2,654,400, Oct. 6.

Dornin, Florence L. T., executrix: *See*—
Dornin, George A.

Dornin, George A., deceased, Youngstown, by F. L. T. Dornin, executrix, assignor to G. A. Dornin, Jr., Warren, Ohio. Forming big end up ingots. 2,654,144, Oct. 6.

Dornin, George A., Jr., assignee: *See*—
Dornin, George A.

Doty, Charles R., Poughkeepsie, assignor to International Business Machines Corporation, New York, N. Y. Card punching machine. 2,654,432, Oct. 6.

Doucot, Roger, Ivry, assignor to Compagnie des Freins & Signaux Westinghouse, Paris, France. Apparatus for metals distillation. 2,654,700, Oct. 6.

Dow Chemical Company, The, assignee: *See*—
De Long, Herbert K.
Moll, Harold W.
Stoesser, Wesley C., and Sommerfield.
Tolkmith, Henry.

Drake, Russell P., Caledonia, assignor to Barber-Colman Company, Rockford, Ill. Pattern controlled drive mechanism for machines for operating upon warps. 2,654,138, Oct. 6.

Draper Corporation, assignee: *See*—
Berry, Edward J., and Allenson.
Donoghue, Florence F., Sanderson, and Pigott.

Drees, Joseph M., Saratoga, Calif. Machine for washing dishes and the like. 2,654,379, Oct. 6.

Dremel, Albert J., Racine, Wis. Motor-driven screw driver. 2,654,407, Oct. 6.

Driessen, Antje G., administrator: *See*—
Driessen, Maximiliaan G.

Driessen, Maximiliaan G., deceased, Pittsburgh, Pa., by A. G. Driessen, administrator, Amsterdam, Netherlands, assignor to De Directie van de Staatsmijnen, Washington, D. C. Separation of suspension of solid matter in liquids. 2,654,479, Oct. 6.

Drnek, John L., assignor to Barber-Colman Company, Rockford, Ill. Motor control. 2,654,859, Oct. 6.

Dryden, Horace W., Modesto, Calif. Chicken wing marker. 2,654,169, Oct. 6.

Dryden, Ian G. C., London, England. Coating with a coal extract and baking. 2,654,676, Oct. 6.

Du Bois, Robert F.: *See*—
Dudis, Charles G., and Du Bois.

Dudis, Charles G., and R. F. Du Bois, assignors to The National Cash Register Company, Dayton, Ohio. Printing plate inker. 2,654,340, Oct. 6.

Duggan, Joseph J., Wollaston, Mass. Fish cutting machine. 2,654,119, Oct. 6.

Duis, Glenn A., and G. S. Park, assignors to Anthony Company, Streator, Ill. Vehicle lift gate. 2,654,491, Oct. 6.

Duncan, Forrest M., Long Island City, assignor, by mesne assignments, to Champion Implement Corporation, New York, N. Y. Motor operated spray device. 2,654,636, Oct. 6.

Duncan, Thomas W., and A. C. Rosencrans, Evansville, Ind., assignors to Seeger Refrigerator Company, St. Paul, Minn. Automatic defrosting evaporator. 2,654,226, Oct. 6.

Dunham, James V., Jenkintown, Pa. Subcaliber adapter. 2,654,318, Oct. 6.

Dunn, Elman R., and D. F. Price, assignors to Landis Tool Company, Waynesboro, Pa. Apparatus for grinding noncylindrical surfaces. 2,654,189, Oct. 6.

Du Pont, E. I., de Nemours and Company, assignee: *See*—
Gresham, William F.
Londergan, Thomas E., and Schmitz.
Patterson, Hugh T.
Pavlic, Albert A.
Ray, Linton G., Jr.
Webb, Irving D.

Duskin, Morris L., Chicago, Ill. Stud assembly for luggage. 2,654,453, Oct. 6.

Dutton, Oscar B., Redondo Beach, Calif., assignor to Radio Corporation of America. Frequency discriminator. 2,654,841, Oct. 6.

Eastman Kodak Company, assignee: *See*—
Bell, Alan, and Thompson.

Eastwood, La Verne W.: *See*—
Davis, James A., and Eastwood.

Eaton Manufacturing Company, assignee: *See*—
Hedlund, Oscar.
Oldberg, Sidney.
Turkish, Michael C.

Edelen, James L., Kirkwood, assignor to Carter Carburetor Corporation, St. Louis, Mo. Eccentric and follower mechanism. 2,654,266, Oct. 6.

Edson, Robert C., Livingston, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Power line carrier telephone system. 2,654,804, Oct. 6.

Edwards, George S., assignor to Valley Mechanical Co., Inc., Greencastle, Pa. Incubator. 2,654,345, Oct. 6.

Edwards, Leonard A., East Hampton, N. Y. Collapsible luggage carrier for automobiles. 2,654,516, Oct. 6.

Eichenbaum, Herman, Rockville Centre, N. Y. Umbrella and manufacturing the same. 2,654,380, Oct. 6.

Eichhorn, Robert L., Evansville, Ind., assignor to International Harvester Company. Refrigerating coil mounting in cabinet. 2,654,231, Oct. 6.

Eisele, Andrew, Detroit, Mich. Bore gauge. 2,654,157, Oct. 6.

Eisenkramer, Arthur, Westbury, assignor to Emerican Radio and Phonograph Corporation, New York, N. Y. Mounting means for television picture tubes. 2,654,880, Oct. 6.

Eitel-McCullough, Inc., assignee: *See*—
Eitel, William W., McCullough, and Sorg.

Eitel, William W., Woodside, J. A. McCullough, Millbrae, and H. E. Sorg, Redwood City, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Ultrahigh-frequency generator and electron tube. 2,654,844, Oct. 6.

Ekco Products Company, assignee: *See*—
Kollman, Jack.

Elastomer Chemical Corporation, assignee: *See*—
Schwencke, Edmund H.

Electric Eye Equipment Company, assignee: *See*—
Frisbie, Stewart E., Smiley, and Frommer.

Electric & Musical Industries Limited, assignee: *See*—
Cork, Edward C.

Electrolux Corporation, assignee: *See*—
Borkoski, Leon P.
Wahlberg, Eric C.

Electrons, Incorporated, assignee: *See*—
Smith, Earle K.

Elliott, Robert A., Fallston, N. C. Pole climbing device. 2,654,638, Oct. 6.

Elox Corporation of Michigan, assignee: *See*—
McKechnie, Ian C.

Emerson Radio and Phonograph Corporation, assignee: *See*—
Eisenkramer, Arthur.

Emhart Manufacturing Company, assignee: *See*—
Honiss, William T.
Peller, Karl E.

Emmett, Milton W., assignor to Holdfast Tool Co., Inc., Los Angeles, Calif. Adjusting means for slidable side jaw wrenches. 2,654,282, Oct. 6.

Engel, G. Curtis: *See*—
Corradini, Robert E., Lynch, Bonomi, and Engel.

Engelmann, Herbert F., Mountain Lakes, assignor to Federal Telecommunication Laboratories, Inc., Nutley, N. J. Radio frequency antenna. 2,654,842, Oct. 6.

Engineering Laboratories, Incorporated, assignee: *See*—
Green, William G.

Epstein, Maurice B., Brooklyn, N. Y. Drain fitting for wash sinks and the like. 2,654,097, Oct. 6.

Ergen, William K., Indianapolis, Ind., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Aircraft radio apparatus. 2,654,882, Oct. 6.

Erico Products, Inc., assignee: *See*—
Neff, Edward B.

Eriksson, Erik O.: *See*—
Boestad, Gustav K. W., and Eriksson.

Ernst, W. Arthur, Racine, Wis. Motorized drink mixer. 2,654,847, Oct. 6.

Ethyl Corporation, assignee: *See*—
Ligett, Waldo B.
Ligett, Waldo B., Closson, and Wolf.

Evans, Cyril H., Cambridge, assignor to Addage Limited, London, England. Production of chlorine dioxide. 2,654,656, Oct. 6.

Ex-Cell-O Corporation, assignee: *See*—
Snader, Ira J.

Fabrique d'Horlogerie CHS Tissot & Fils S. A., assignee: *See*—
Galley, Fritz.

Fahrenbach, Marvin J., Westfield, N. J., assignor to American Cyanamid Company, New York, N. Y. Synthesizing pteridines. 2,654,755, Oct. 6.

Falk Corporation, The, assignee: *See*—
Schmitter, Walter P.

Fallgatter, Marvin B., Piedmont, and K. E. Hallikainen, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Measurement of water vapor in gases. 2,654,242, Oct. 6.

Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius und Bruning, assignee: *See*—
Bestian, Herbert.
Orthner, Ludwig, and Rieber.

Faust, Ellwood L., Elmhurst, Ill., assignor to International Harvester Company. Hopper connecting means for distributing mechanisms. 2,654,509, Oct. 6.

Federal Telecommunication Laboratories, Inc., assignee: *See*—
Engelmann, Herbert F.
Fischer, Laurin G.

Felliden, Geoffrey B. R., Lincoln, assignor to Power Jets (Research and Development) Limited, London, England. Construction of rotors for compressors and like machines. 2,654,565, Oct. 6.

Feldhausen, Cyril P., Wauwatosa, R. M. Lommen, Milwaukee, and W. H. Rouse, Greenfield, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Web severing device. 2,654,431, Oct. 6.

Feldman, Joseph, Bronx, assignor to Scher & Feldman, Inc., New York, N. Y. Coat combined with muff. 2,654,094, Oct. 6.

Feller, Anton M., Elisabeth, N. J. Apparatus for the integration and control of radiation, particularly for the control of exposure in photographic processes. 2,654,858, Oct. 6.

Ferguson, Henry A., Lombard, R. C. Boyle, and E. Jedrzykowski, Chicago, Ill., assignors to International Harvester Company. Tractor body frame with supplementary power transmitting and dividing apparatus. 2,654,255, Oct. 6.

Ferm, Glenn O.: *See*—
Willing, Joseph E., and Ferm.

Ferrin, Lester T., Tonasket, Wash. Sickle bar sharpening implement. 2,654,187, Oct. 6.

Fidler, Robert C., Los Angeles, Calif. Tire alarm. 2,654,337, Oct. 6.

Fields, Claude O., assignee: *See*—
Bathurst, Thomas T.

Fies, Milton H., assignee: *See*—
Glaze, Paul E.

Finkel, Julius, Brooklyn, N. Y. Antenna accessory. 2,654,857, Oct. 6.

Fischer, Laurin G., North Arlington, assignor to Federal Telecommunication Laboratories, Inc., Nutley, N. J. Radio frequency amplitude control device. 2,654,866, Oct. 6.

Fisher, Charles H.: *See*—
Rehberg, Chessie E., and Fisher.

Fisher, James W., E. W. Wheatley, and G. B. May, Sponton, near Derby, England, assignors to British Celanese Limited. Polysulphone aminotriazoles. 2,654,726, Oct. 6.

Fitzpatrick, Stephen I., assignor to Blokolgas System, Inc., Detroit, Mich. Combustion chamber. 2,654,350, Oct. 6.

Fleck, Fritz, assignor to Sandoz A. G., Basel, Switzerland. Pulverizable and readily soluble brightening agents. 2,654,713, Oct. 6.

Fleming, David H., Jr., Orange, N. J., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Blowpipe employing adjuvant powder for thermochemically removing material. 2,654,329, Oct. 6.

Flemmert, Gösta L.: *See*—
Stelling, Per O., and Flemmert.

Fiolo, Ingvald O.: *See*—
Frees, Burke, Jr., and Fiolo.

Florence Stove Company, assignee: *See*—
Reeves, Herbert M.

Flynn, Dennis J., Newport, Ky. Apparatus for producing photomontages. 2,654,289, Oct. 6.

Foamrock Corporation, assignee: *See*—
Harris, Lawrence M.

Fogleman, Walter L.: *See*—
Long, Nathan A., Carter, Lindley, Stadler, and Fogleman.

Folkers, Karl: *See*—
Koniuszy, Frank R., Brink, and Folkers.

Ford, George E., Brighton, assignor to Qualitrol Corporation, East Rochester, N. Y. Bezel for indicating instruments. 2,654,253, Oct. 6.

Forgash, Anthony J., assignee: *See*—
Rich, Edward L., Bauer, and Dengel.

Foster Engineering Company, assignee: *See*—
Foster, Shubel A.

Foster, Harry G., Mullens, W. Va. Sanding device for locomotives. 2,654,622, Oct. 6.

Foster, Shubel A., Birmingham, assignor to Foster Engineering Company, Royal Oak, Mich. Throttle valve. 2,654,562, Oct. 6.

Fox, Harold D., Pontiac, Mich. Heat exchanger and ash collector apparatus. 2,654,582, Oct. 6.

Fox, Richard L.: *See*—
Blair, Cecil L., and Fox.

Fram Corporation, assignee: *See*—
Ahlijian, Kirk.
Robinson, John W.
Robinson, John W., and James.

Francis, Lynn M., Detroit, Mich. Automobile-carrying trailer. 2,654,612, Oct. 6.

Francis, Lynn M., Detroit, Mich. Tandem wheel and spring suspension. 2,654,615, Oct. 6.

Franck, George E., Riverside, Ill., assignor to The Imperial Brass Manufacturing Company. Diaphragm valve. 2,654,559, Oct. 6.

Frank, Robert J.: *See*—
Frank, Ruth L. and R. J.

Frank, Ruth L. and R. J., Beverly Hills, Calif. Nail polish template. 2,654,375, Oct. 6.

Frankenhoff, Charles A., Scarsdale, N. Y. Diatomaceous earth and Portland cement compositions. 2,654,674, Oct. 6.

Franklin Transformer Manufacturing Company, Inc., assignee: *See*—
Peterson, Elmer J.

Frauenheim, Edward E., Jr., Eggertsville, N. Y. Malting apparatus. 2,654,691, Oct. 6.

Frees, Burke, Jr., and I. O. Fiolo, Minneapolis, Minn. Boat structure. 2,654,102, Oct. 6.

Fretz-Moon Tube Company, Inc., assignee: *See*—
Church, George T.

Fridolph, John S., Flushing, N. Y., assignor to The Sorg Paper Company, Middletown, Ohio. Composite sheet material and producing the same. 2,654,687, Oct. 6.

Friedman, Alvin H., Kansas City, Mo., assignor to Phillips Petroleum Company. Distribution for inlet gas. 2,654,659, Oct. 6.

Frisbie, Stewart E., and W. O. Smiley, Danville, Ill., and J. C. Frommer, Cincinnati, Ohio, assignors to Electric Eye Equipment Company, Danville, Ill. Side registration control device for moving webs. 2,654,599, Oct. 6.

Frommer, Joseph C.: *See*—
Frisbie, Stewart E., Smiley, and Frommer.

Fuhrman, William F., Los Angeles, Calif., assignor of one-half to E. O. Gerth, Richmond, Ind. Automatic vending machine. 2,654,505, Oct. 6.

Fuller, Louis J., Los Angeles, Calif. Instrument for determining motor vehicle action. 2,654,538, Oct. 6.

Fuller Manufacturing Company, assignee: *See*—
Perkins, Charles M.

Fulmer, Carl G., Chicago, and D. Int-Hout, Park Ridge, Ill., assignors to Lever Brothers Company. Shipping and display carton. 2,654,469, Oct. 6.

Funk, Casimir, New York, and A. J. Merritt, Elmont, assignors to U. S. Vitamin Corporation, New York, N. Y. Production of derivatives of 9-polyhydroxyalkyl-isoalloxazines and products obtained. 2,654,735, Oct. 6.

Galazzi, Joseph A., Evansville, Ind., assignor to International Harvester Company. Air conditioning apparatus. 2,654,232, Oct. 6.

Gallagher, Peter P.: *See*—
Bisner, Edward H., and Gallagher.

Galley, Fritz, assignor to Fabrique d'Horlogerie CHS Tissot & Fils S. A., Le Locle, Switzerland. Universal watch setter. 2,654,213, Oct. 6.

Gampp, George E.: *See*—
Allen, Howard G., Gampp, and Smith.

Gardner Board and Carton Co., The, assignee: *See*—
Ringler, William A.

Garst, Roger: *See*—
Vassel, Bruno, and Garst.

Gaum, Gilbert A., Louisville, Ky., assignor to Ladish Co., Cudahy, Wis. Reducing elbow. 2,654,619, Oct. 6.

Gaylor, Peter J., Union, assignor of one-half to C. W. Ripple, Summit, N. J. Electrolytic regeneration of spent caustic. 2,654,706, Oct. 6.

Gaylord Products, Incorporated, assignee: *See*—
Weaver, Ruth K., and Hahn.

Geckler, Ernest W., and J. F. Near, assignors to Russell-Miller Milling Company, Minneapolis, Minn. Compartment bag. 2,654,527, Oct. 6.

Geigy, J. R., A. G., assignee: *See*—
Haefliger, Frans.

Geiser, Edward M., Downers Grove, assignor to Universal Oil Products Company, Chicago, Ill. Luminescent resins from aryl-substituted alkyl halides and alkenyl ethers of a polyhydroxy organic compound. 2,654,732, Oct. 6.

Geissmann, Gladys W., New York, N. Y. Child's garment. 2,654,093, Oct. 6.

General Electric Company, assignee: *See*—
Hall, Chester I.
Keim, Donald B.
Pattison, Wesley S., and Hawthorne.
Powers, James H.
Schroeder, George W.
Sway, Henry C.
Treanor, Edward D.
Welch, Stanley B., and Olthuis.

General Electric Company, assignee: *See*—
Wendt, Harry C.
Wotring, Gaylord H.
Young, James F.

General Precision Laboratory Incorporated, assignee: *See*—
Zaleski, John F.

General Railway Signal Compny, assignee: *See*—
Willing, Joseph E. and Ferm.

General Tire and Rubber Company, The, assignee: *See*—
Greene, Charles E.

Gerth, Elmer O., assignee: *See*—
Fuhrman, William F.

Gesellschap, Robert A., Kirkwood, assignor to James R. Kearney Corporation, St. Louis, Mo. Electrical switch. 2,654,814, Oct. 6.

Ghormley, Edwin I., assignor to United Aircraft Products, Inc., Dayton, Ohio. Two phase electromagnetic device. 2,654,393, Oct. 6.

Gibbs, Earl, Denver, Colo. Bullet forming die. 2,654,140, Oct. 6.

Gilbert, Harry, Cuyahago Falls, and F. F. Miller, Wadsworth, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Copolymers of vinylidene cyanide with alkyl vinyl ketones. 2,654,724, Oct. 6.

Gilbert, Harry, Cuyahoga Falls, and F. F. Miller, Wadsworth, Ohio., assignors to The B. F. Goodrich Company, New York, N. Y. Copolymers of vinylidene cyanide with difluorodichloroethylenes. 2,654,728, Oct. 6.

Gilbert, William I., and C. W. Montgomery, Oakmont, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Preparing liquid hydrocarbon fuel from coal. 2,654,695, Oct. 6.

Gill, Lester D.: *See*—
Adorney, Charles S., Gill, and McIlvain.

Gillett, Horace W., Columbus, assignor, by mesne assignments, to The Warner & Swasey Company, Cleveland, Ohio. Hot machining of metals. 2,654,821, Oct. 6.

Gillette Company, The, assignee: *See*—
Bowen, Billi, and Metzler.

Gilmore, Forrest E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Furfural extraction process. 2,654,792, Oct. 6.

Gilmore, Jackson G., deceased, and W. H. Gilmore, Columbus, Ohio; W. H. Gilmore, executor. Oil burner and fire control device. 2,654,423, Oct. 6.

Gilmore, William H.: *See*—
Gilmore, Jackson G. and W. H.

Glass, Ann T., executrix: *See*—
Glass, Thomas A.

Glass, Thomas A., deceased, Los Angeles, Calif.; A. T. Glass, , executrix. Backflow preventer. 2,654,388, Oct. 6.

Glaze, Paul E., Gorgas, Ala., assignor of one-fourth to M. H. Fies, one-fourth to H. M. Johnstone, and one-fourth to J. W. Shealey. Railway car shaker. 2,654,490, Oct. 6.

Gleason, Thomas C., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Joist-suspended furnace structure. 2,654,360, Oct. 6,

Gleason Works, assignee: *See*—
Wildhaber, Ernest.

Gleason Works, The, assignee: *See*—
Stewart, Arthur L.

Globe Hoist Company, assignee: *See*—
Thompson, Elmer B.

Globe-Union Inc., assignee: *See*—
Khouri, Alfred S.

Goff, John W., St. Paul, Minn. Poultry watering device. 2,654,346, Oct. 6.

Goguen, Joseph A., West Warwick, R. I. Cravat. 2,654,095, Oct. 6.

Gomco Surgical Manufacturing Corp., assignee: *See*—
Henderson, Stanford A.

Goodhue, Lyle D., Bartlesville, Okla., and C. E. Tissol, Mineapolis, Minn., assignors to Phillips Petroleum Company. Sulfoxides as plant defoliants. 2,654,667, Oct. 6.

Goodman Manufacturing Company, assignee: *See*—
Bergmann, Ernst R.
Berry, Charles E.

Goodrich, B. F., Company, The, assignee: *See*—
Gilbert, Harry, and Miller.

Goodrich, Robert R., Cranbury, N. J., assignor to Radio Corporation of America. Photoconductive target for cathode-ray devices. 2,654,852, Oct. 6.

Goppel, Johan M., G. E. Rumscheidt, and J. T. Hackmann, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif. Stabilized reaction products of rubbery polymers with inorganic acidifying compounds. 2,654,679, Oct. 6.

Goppel, Johan M., G. E. Rumscheidt, and J. T. Hackmann, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif. Increasing stability of rubbery polymer reaction products and resulting compositions. 2,654,680, Oct. 6.

Gorham, George, assignor to Technicon Chromatography Corporation, New York, N. Y. Fraction collection apparatus. 2,654,522, Oct. 6.

Gorin, Everett, Castle Shannon, assignor to Pittsburgh Consolidation Coal Company, Pittsburgh, Pa. Gasification of carbonaceous solid fuels. 2,654,661, Oct. 6.

Gorin, Everett, Castle Shannon, assignor to Pittsburgh Consolidation Coal Company, Pittsburgh, Pa. Gasification of carbonaceous solid fuels. 2,654,662, Oct. 6.

Gorin, Everett, Castle Shannon, assignor to Pittsburgh Consolidation Coal Company, Pittsburgh, Pa. Gasification of carbonaceous solid fuels. 2,654,663, Oct. 6.

Graber Company, The, assignee: *See*—
Graber, Joseph V., and J. M.

Graber, John N.: *See*—
Graber, Joseph V., and J. N.

Graber, Joseph V. and J. N., Madison, assignors to The Graber Company, Middleton, Wis. Drapery hanger for traverse rods. 2,654,114, Oct. 6.

Graham & Barker, assignee: *See*—
Graham, George C.

Graham, George C., assignor, by mesne assignments, to Graham & Barker, Ridgewood, N. J. Washing and extracting machine having a flexible diaphragm. 2,654,240, Oct. 6.

Graham, John W., Ligonier, assignor to Kennametal Inc., Latrobe, Pa. Oxidation-resistant hard composition. 2,654,145, Oct. 6.

Grant, Gordon A.: *See*—
Von Seemann, Carl, and Grant.

Graves, Harold E., Jr., assignor to Brown-Graves Company, Akron, Ohio. Hardware for swinging sliding storm sashes. 2,654,127, Oct. 6.

Gray Tool Company, assignee: *See*—
Mueller, Robert A., and Crain.

Graybill, Hershey R., Manheim, assignor to Animal Trap Company of America, Litlitz, Pa. Chemical gun trap. 2,654,178, Oct. 6.

Green, William G., Dallas, Tex., assignor to Engineering Laboratories, Incorporated, Tulsa, Okla. Drill bit. 2,654,577, Oct. 6.

Greene, Charles E., assignor to The General Tire and Rubber Company, Akron, Ohio. Polyvinyl composition and making same. 2,654,723, Oct. 6.

Gresham, William F., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Polyethylene glycols from ether-esters of glycolic acid. 2,654,786, Oct. 6.

Grizzard, Earle D., and F. R. Collar, Los Angeles, and J. C. Mitchell, La Crescenta, asignors to Adams Rite Manufacturing Company, Glendale, Calif. Releasable connection device. 2,654,135, Oct. 6.

Gross, Howard H.: *See*—
Kiersted, Wynkoop, Jr., and Gross.

Grosvenor, Dale D., Ames, assignor to Deere Manufacturing Co., Dubuque, Iowa. Cotton spindle moistening apparatus. 2,654,204, Oct. 6.

Grosvenor, William M., Jr., New York, N. Y., assignor to Taco Heaters, Incorporated, Providence, R. I. Automatic hygroscopic type air vent. 2,654,385, Oct. 6.

Grummitt, Oliver J., and R. E. Blank, Cleveland, and D. Marsh, Cleveland Heights, assignors to The Sherwin-Williams Company, Cleveland, Ohio. Stabilizer composition and stabilized vinyl resin. 2,654,718, Oct. 6.

Gulf Research & Development Company, assignee: *See*—
Gilbert, William I., and Montgomery.
Mitchell, Edward.
Mitchell, Edward, and Cramp.
Mitchell, Edward, and Morse.

Gullett Gin Company, assignee: *See*—
Wallace, Jeffrey J.

Habicht, Ernst: *See*—
Suter, Hans, Habicht, and Kündig.

Hackert, Albert B., St. Paul, Minn. Bowling alley bumper with hanger means. 2,654,605, Oct. 6.

Hackmann, Johannes T.: *See*—
Goppel, Johan M., Rumscheidt, and Hackmann.

Haefliger, Frans, assignor to J. R. Geigy A. G., Basel, Switzerland. Monoethers of an araliphatic glycol and their use in the control of pests. 2,654,688, Oct. 6.

Hahn, Paul T.: *See*—
Weaver, Ruth K., and Hahn.

Hair, Richard T.: *See*—
Ball, Charles F., and Hair.

Hall, Chester I., Vischer's Ferry, N. Y., assignor to General Electric Company. Overload protective relay. 2,654,813, Oct. 6.

Hall, Chester L., Chester, assignor to Sun Oil Company, Philadelphia, Pa. Wax flaker. 2,654,123, Oct. 6.

Hall, Chester L., Chester, assignor to Sun Oil Company, Philadelphia, Pa. Flaking wax. 2,654,125, Oct. 6.

Hallikainen, Kauko E.: *See*—
Fallgatter, Marvin B., and Hallikainen.

Hankins Container Company, The, assignee: *See*—
White, Ray T.

Hansen, David D.: *See*—
Berger, Charles V., and Hansen.

Hansen, Maurice, San Mateo, assignor to S. I. Keene, San Francisco, Calif. Revolver thumb rest safety. 2,654,174, Oct. 6.

Hansen, Maurice, San Mateo, assignor to S. I. Keene, San Francisco, Calif. Trigger mechanism. 2,654,175, Oct. 6.

Hansen, Otto A., Venice, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Stiffened honeycomb core. 2,654,686, Oct. 6.

Hanson-Van Winkle-Munning Company, assignee: *See*—
Case, Bernard C.
Todd, Guerin.

Harford, Charles G., Wollaston, E. L. Kreidl, Boston, and J. L. Utter, Stoughton, assignors to Arthur D. Little, Inc., Cambridge, Mass. Making lightweight aggregate. 2,654,136, Oct. 6.

Harrington, Edward R., Long Beach, Calif. Fluid sampling device. 2,654,251, Oct. 6.

Harrington, Edward R., Long Beach, Calif. Liquid sampling apparatus. 2,654,250, Oct. 6.

Harris, George P., assignee: *See*—
Rich, Edward L., Bauer, and Dengel.

Harris, Lawrence M., assignor of one-half to Foamrock Corporation, Stafford, Tex. Furnace. 2,654,592, Oct. 6.

Harstick, William H., Oak Park, Ill., assignor to International Harvester Company. Can submerging device for milk coolers. 2,654,500, Oct. 6.

Harstick, William H., Oak Park, Ill., assignor to International Harvester Company. Vibration indicating instrument. 2,654,595, Oct. 6.

Hawthorne, Edward B.: *See*—
Pattison, Wesley S., and Hawthorne.

Hayner, De Eldon E., Floral Park, N. Y. Metal awning or shutter. 2,654,425, Oct. 6.

Hazelton, George, Leicester, assignor to Clutsom & Kemp Limited, Coalville, England. Weaving loom with stationary weft supply. 2,654,398, Oct. 6.

Heal, Paul E., assignor to The Pure Oil Company, Chicago, Ill. Advertising display device for tires. 2,654,168, Oct. 6.

Heckendorf, Howard A., Chicago, Ill., assignor to International Harvester Company. Power washing cream separator. 2,654,536, Oct. 6.

Hedberg, Carl W. J., Bound Brook, N. J., assignor to Research Corporation, New York, N. Y. Gas cooling contact apparatus. 2,654,584, Oct. 6.

Hedlund, Oscar, Battle Creek, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio. Machine for making and forming turbine blades. 2,654,277, Oct. 6.

Heehler, Arthur C., assignor to The Pyle-National Company, Chicago, Ill. Combination warning light and stationary headlight. 2,654,875, Oct. 6.

Heesen, Leonardus B., Amsterdam, Netherlands. Apparatus for preparing foam-like substances such as whipped cream. 2,654,585, Oct. 6.

Heikin, Abraham, Philadelphia, Pa. Moisture impervious absorbent sheet for covering work surfaces in chemical laboratories and the like. 2,654,684, Oct. 6.

Hell, Rudolf, Kiel-Dietrichsdorf, and H. Taudt, Blickstedt, near Kiel, assignors to Siemens & Halske, Aktiengesellschaft, Munich and Berlin-Siemensstadt, Germany. Apparatus for synchronizing receivers in facsimile printing systems. 2,654,802, Oct. 6.

Henderson, Stanford A., assignor to Gomco Surgical Manufacturing Corp., Buffalo, N. Y. Suction apparatus. 2,654,557, Oct. 6.

Henschien, Stener, Buenos Aires, Argentina. Safety razor. 2,654,150, Oct. 6.

Henshaw, James N., Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J. Electrically powered blind riveting tool. 2,654,257, Oct. 6.

Herbert, Louis C., Burley, Wash. Pivoted jaws forceps tool with locking means. 2,654,632, Oct. 6.

Herbst, Philip J., Moorestown, N. J., assignor to Radio Corporation of America. Means and method for obtaining improved color fidelity in color television systems. 2,654,798, Oct. 6.

Hercules Powder Company, assignee: *See*—
Azorlosa, Julian L.

Hercules Steel Products Corporation, assignee: *See*—
Altemiller, Arthur D.

Herman, Daniel F., Queens, assignor to National Lead Company, New York, N. Y. Preparation of alkyl titanates. 2,654,770, Oct. 6.

Herr, Milton E.: *See*—
Heyl, Frederick W., and Herr.

Hertrich, Joseph, assignor to The Western States Machine Company, Hamilton, Ohio. Mingler. 2,654,364, Oct. 6.

Hettinger, Sidney V., Jr.: *See*—
Youngren, Harold T., and Hettinger.

Heyl, Frederick W., and M. E. Herr, assignors to The Upjohn Company, Kalamazoo, Mich. Steroid halonitriles. 2,654,765, Oct. 6.

Heyne, William O., Epsom, assignor of one-half to T. J. Brooks (Autos) Limited, Leicester, England. Electrical stop motion for knitting machines. 2,654,238, Oct. 6.

Heyward, Mary E., Brockton, Mass., assignor to American Hospital Supply Corporation, Evanston, Ill. Stand and bassinet combination. 2,654,098, Oct. 6.

High, LeRoy B.: *See*—
Brown, Henry, and High.

Hill, Albert E., Tulsa, Okla. Gasoline flowmeter. 2,654,245, Oct. 6.

Hillier, Harold, assignor to G. & J. Weir Limited, Glasgow, Scotland. Closed feed system for steam power plants. 2,654,581, Oct. 6.

Hirschman, Irving, Brooklyn, N. Y. Spectacles with pivotally mounted nose rest. 2,654,290, Oct. 6.

Hobbs, Howard F.: *See*—
Thompson, Joseph A., and Hobbs.

Hobbs Transmission Limited, assignee: *See*—
Thompson, Joseph A., and Hobbs.

Hoe, R., & Co. Inc., assignee: *See*—
Bennett, Thomas R.
Southway, Arthur.

Hoesch, Elmer D., West Allis, and R. G. Matters, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Making welded blade structures. 2,654,143, Oct. 6.

Hoffman, Charles H.: *See*—
Stearns, Joseph L., and Hoffman.

Holdfast Tool Co., Inc., assignee: *See*—
Emmett, Milton W.

Homeyer, August H., Webster Groves, and G. B. De La Mater, St. Louis County, assignors to Mallinckrodt Chemical Works, St. Louis, Mo. Preparing codeinone, dihydrocodeinone, and dihydromorphinone. 2,654,756, Oct. 6.

Honiss, William T., West Hartford, Conn., assignor to Emhart Manufacturing Company. Molten glass feeder spout. 2,654,185, Oct. 6.

Hopkins, Richard J., Franklin, assignor to Joy Manufacturing Company, Pittsburgh, Pa. Control valve mechanism. 2,654,383, Oct. 6.

Hopkins, Richard J., Franklin, assignor to Joy Manufacturing Company, Pittsburgh, Pa. Cable reeling mechanism. 2,654,548, Oct. 6.

Horelick, Samuel, Pittsburgh, Pa., assignor, by mesne assignments, to McGraw Electric Company. Making and staying electrical transformer windings. 2,654,142, Oct. 6.

Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Winder machine. 2,654,546, Oct. 6.

Hotten, Bruce W., Orinda, assignor to California Research Corporation, San Francisco, Calif. Polysiloxane-aluminum soap greases. 2,654,710, Oct. 6.

House, Bryan E., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake adjuster. 2,654,446, Oct. 6.

Howe Twister Corporation, assignee: *See*—
Bogdanffy, George W., Mitchell, and Uhlig.
Uhlig, Henry C.

Hu, Quang H., and C. Y. Lee, New York, N. Y. Bottom margin control for typewriters. 2,654,460, Oct. 6.

Hubbard, David C., assignor to A. B. Chance Company, Centralia, Mo. Dead-end strain carrier. 2,654,796, Oct. 6.

Hubbard Spool Company, assignee: *See*—
Rappleyea, Frederick A.

Huddle, Edwin F.: *See*—
Raney, Russell R., and Huddle.

Hudnall, Alton, Denver, Colo. Clamp attachment for pliers. 2,654,280, Oct. 6.

Huebner, Charles F., Morristown, and C. R. Scholz, assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J. Iodinated mercapto-imidazoles. 2,654,761, Oct. 6.

Huebner, Charles F., Morristown, and C. R. Scholz, assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J. Iodinated substituted mercapto-imidazoles. 2,654,762, Oct. 6.

Huebner Company, The, assignee: *See*—
Huebner, William C.

Huebner, William C., New York, N. Y., assignor to The Huebner Company, Dayton, Ohio. Multicolor electronographic printing. 2,654,315, Oct. 6.

Huggins, Ossian J., assignor of twenty-five per cent to W. C. Kimberl, Jr., Pensacola, Fla. Garbage or ash can lock lid. 2,654,623, Oct. 6.

Hulfish, Buford W., Chicago, Ill., assignor to Birtman Electric Company. Jigsaw hold-down foot and blade guide. 2,654,405, Oct. 6.

Hultberg, Åke A., Aspuddn, Sweden. Coin holder. 2,654,376, Oct. 6.

Humpal, Eugene G., and R. O. Balogh, Cleveland, Ohio, assignors, by mesne assignments, to McCabe-Powers Auto Body Co., St. Louis, Mo. Ladder operating mechanism. 2,654,524, Oct. 6.

Hunn, James V., Avon Lake, assignor to The Sherwin-Williams Company, Cleveland, Ohio. Alcoholysis. 2,654,767, Oct. 6.

Huthsing, Charles K., Los Angeles, Calif. Valve. 2,654,396, Oct. 6.

Hyams, Herbert B., assignor to Atlas Manufacturing Company, St. Paul, Minn. Device for preserving paintbrushes. 2,654,504, Oct. 6.

Hyman, Benjamin M., Moline, Ill., assignor to International Harvester Company. Cotton stripping machine. 2,654,201, Oct. 6.

Illinois Tool Works, assignee: *See*—
Poupitch, Ougljesa J.
Schevenell, Leonard O.

Imperial Brass Manufacturing Company, The, assignee: *See*—
Franck, George E.

Imperial Chemical Industries Limited, assignee: *See*—
Leah, Amy S., and Mooney.

Industriaktiebolaget Luxor, assignee: *See*—
Olsson, Robert E. O., and Dahl.

Ingold, Hans, Lucerne, Switzerland. Storage arrangement. 2,654,489, Oct. 6.

Innes, William B., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Apparatus for controlling the flow of gases. 2,654,387, Oct. 6.

Interior Steel Equipment Company, The, assignee: *See*—
Schaefer, Joseph F.

Interior, United States of America as represented by the Solicitor of the Department of the, assignee: *See*—
Banning, Lloyd H., and Anable.

International Business Machines Corporation, assignee: *See*—
Coles, Roger E.
Connolly, Charles E.
Cunningham, James M., and Smith.
Doty, Charles R.
Rutbell, Clarence C., and Lusht.

International Harvester Company, assignee: *See*—
Aasland, John L.
Beaudry, George D., Longdon, and Brink.
Courtney, Joseph F., and Radtke.
Eichhorn, Robert L.
Faust, Ellwood L.
Ferguson, Henry A., Boyle, and Jedrzykowski.
Galazzi, Joseph A.
Harstick, William H.
Heckendorf, Howard A.
Hyman, Benjamin M.
Millard, Lee P.
Millard, Lee P., and Vogel.
Parkerton, Howard F.
Peterson, Walter R., and Radtke.
Radtke, Adelbert C.
Raney, Russell R., and Huddle.
Scott, Michael H.
Stadstad, George E.
Voda, John J.
Ziskal, Joseph F.

International Minerals & Chemical Corporation, assignee: *See*—
Bishop, James R. T., and Swanson.
Le Baron, Ira M.
Vassel, Bruno, and Garst.

Int-Hout, Daniel: *See*—
Fulmer, Carl G., and Int-Hout.

Invincible Metal Furniture Company, assignee: *See*—
Pasewalk, LeRoy W., and Reimer.

Irmscher, Hans O., East Hempstead, N. Y., assignor to National Tea Packing Company, Inc. Measured charge supply control flow mechanism for automatic packaging machine operations. 2,654,195, Oct. 6.

Irving, Robert, Newcastle-on-Tyne, assignor to The Thermal Syndicate Limited, Wallsend, England. Electric immersion heater. 2,654,820, Oct. 6.

Ivers-Lee Company, assignee: *See*—
Salfisberg, Leroy L.

Jablonski, Edwin J.: *See*—
Tuve, Richard L., and Jablonski.

Jackson, George P., Flushing, assignor to Combustion Engineering, Inc., New York, N. Y. Flow stoppage detector for fuel supply lines. 2,654,879, Oct. 6.

James, Herbert L., Philadelphia, Pa. Pipe puller. 2,654,567, Oct. 6.

James, William S.: *See*—
Robinson, John W., and James.

Jedrzykowski, Edmund: *See*—
Ferguson, Henry A., Boyle, and Jedrzykowski.

Jennison, Arthur N., Keene, N. H. Collapsible box for carrying dogs. 2,654,498, Oct. 6.

Jensen, Clifford S., Woodland, Calif. Pipe holster. 2,654,514, Oct. 6.

Johnson, Andrew: *See*—
Antonioli, Peter, Jr., and Johnson.

Johnson, Arthur A., assignor to Casco Products Corporation, Bridgeport, Conn. Steam iron. 2,654,167, Oct. 6.

Johnson, Douglas: *See*—
Stockdale, Charles H., and Johnson.

Johnstone, Harry M., assignee: *See*—
Glaze, Paul E.

Jonas, Julius, Los Angeles, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Movable jet deflector to compensate for destabilizing moment in a jet aircraft. 2,654,552, Oct. 6.

Jones, Cernyw F., Economy, assignor to Perfect Circle Corporation, Hagerstown, Ind. Knurling device. 2,654,273, Oct. 6.

Jones, Cernyw F., Economy, assignor to Perfect Circle Corporation, Hagerstown, Ind. Knurling device. 2,654,274, Oct. 6.

Jones, Cernyw F., Economy, assignor to Perfect Circle Corporation, Hagerstown, Ind. Knurling device. 2,654,275, Oct. 6.

Jones, Cernyw F., Economy, assignor to Perfect Circle Corporation, Hagerstown, Ind. Knurling device. 2,654,276, Oct. 6.

Jonsson, Einar J. J., Stockholm, Sweden. Vertical baling press. 2,654,309, Oct. 6.

Joy Manufacturing Company, assignee: *See*—
Ball, Charles F., and Hair.
Hopkins, Richard J.

Kachelski, Albert F., F. W. Crinion, and G. J. Beers, Beaver Dam, Wis. Ice fishing tip-up. 2,654,176, Oct. 6.

Kafer, Clare H., Palmyra, assignor to Revco, Inc., Deerfield, Mich. Snap-on basket handle. 2,654,115, Oct. 6.

Kaiser-Frazer Corporation, assignee: *See*—
Anschuetz, Harvey J.

Kalman Floor Company, Incorporated, assignee: *See*—
Ytterberg, Carl F.

Kammerer, Archer W., Fullerton, Calif. Expansible rotary drill bit. 2,654,574, Oct. 6.

Kammerer, Archer W., Fullerton, Calif. Tandem expansible rotary drill bit. 2,654,575, Oct. 6.

Katzung, Barney L., and M. A. Reim, Albert Lea, Minn. Trolling plate. 2,654,336, Oct. 6.

Kaye, James W., Montclair, assignor to Kaye & MacDonald, Inc., West Orange, N. J. Valve for continuous boiler blowdown. 2,654,395, Oct. 6.

Kaye & MacDonald, Inc., assignee: *See*—
Kaye, James W.

Kearney, James R., Corporation, assignee: *See*—
Gesellschap, Robert A.

Keene, Samuel I., assignee: *See*—
Hansen, Maurice.

Kegg, Harry C., Westerville, Ohio. Automatic weighing and separating device. 2,654,558, Oct. 6.

Keim, Donald B., Syracuse, N. Y., assignor to General Electric Company. Cathode-ray tube socket. 2,654,871, Oct. 6.

Kelliher, Francis B., assignor to Whitin Machine Works, Whitinsville, Mass. Twister head driving mechanism for wool spinning machines. 2,654,212, Oct. 6.

Kellogg, M. W., Company, The, assignee: *See*—
Marshall, Walton H., Jr.
Palmer, George H.

Kennametal Inc., assignee: *See*—
Graham, John W.

Kernkamp, Irwin A., Spokane, Wash. Oxygen tank truck. 2,654,493, Oct. 6.

Khouri, Alfred S., assignor to Globe-Union Inc., Milwaukee, Wis. Inductance unit. 2,654,861, Oct. 6.

Kidde Manufacturing Co., Inc., assignee: *See*—
Noe, Harold C.

Kiersted, Wynkoop, Jr., Scarsdale, and H. H. Gross, Pleasantville, assignors to Texaco Development Corporation, New York, N. Y. Solvent dewaxing. 2,654,692, Oct. 6.

Kimberl, William C., Jr., assignee: *See*—
Huggins, Ossian J.

Kindseth, Harold V., assignor to Bemis Bro. Bag Company, Minneapolis, Minn. Apparatus for filling and compacting material in bags and having a retractable bag bottom abutment member. 2,654,518, Oct. 6.

Kindseth, Harold V., assignor to Bemis Bro. Bag Company, Minneapolis, Minn. Bag opener. 2,654,519, Oct. 6.

Kirchofer, Alvin, assignor to Newburgh Metal Mfg. Corp., Newburgh, N. Y. Foldable reclining chair. 2,654,417, Oct. 6.

Kirkpatrick, Willard H., assignor to Visco Products Company, Sugar Land, Tex. Breaking petroleum emulsions and compositions therefor. 2,654,714, Oct. 6.

Kirshenbaum, Abraham D., Union, and H. W. Rudel, Roselle Park, N. J., assignors to Standard Oil Development Company. Monocyclic terpene-sulfur-phosphorus sulfide reaction product and lubricating oil containing the same. 2,654,711, Oct. 6.

Klante, Herman J., assignor to Lily-Tulip Cup Corporation, New York, N. Y. Means for holding receptacles. 2,654,628, Oct. 6.

Klausmann, Milton H., Maplewood, and H. J. Brucker, Springfield, assignors to Seal-Spout Corporation, Newark, N. J. Machine for attaching pouring spouts to containers. 2,654,332, Oct. 6.

Klug, Charles W., Chicago, Ill. Thermally actuated voltage indicator. 2,654,865, Oct. 6.

Knandel, George J., Glen Rock, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Teletypewriter switching system. 2,654,797, Oct. 6.

Knight, Dee A., Lawson, Colo. Reverberatory furnace. 2,654,593, Oct. 6.

Koehring Company, assignee: *See*—
Lichtenberg, Erich H.

Kollman, Jack, assignor to Ekco Products Company, Chicago, Ill. Cover for bake pans. 2,654,502, Oct. 6.

Konluszy, Frank R., Rahway, N. G. Brink and K. Kolkers, Plainfield, assignors to Merck & Co., Inc., Rahway, N. J. Benzyl alcohol extraction of antipernicious anemia concentrate. 2,654,690, Oct. 6.

Kopald, Herman G., executor: *See*—
Salfisberg, Leroy L.

Kozacik, Alfred F., and E. M. Nygaard, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Preparation of indium acetylacetonate. 2,654,769, Oct. 6.

Krammerer, Archer W., Fullerton, Calif. Expansible rotary drill bit. 2,654,576, Oct. 6.

Kreidl, Ekkehard L.: *See*—
Harford, Charles G., Kreidl, and Utter.

Krueger, Alfred P., Stratford, assignor to Derby Sealers, Incorporated, Derby, Conn. Tape measuring dispenser. 2,654,154, Oct. 6.

Krueger, Alfred P., Stratford, assignor to Derby Sealers, Incorporated, Derby, Conn. Tape-dispensing device. 2,654,598, Oct. 6.

Kuh, Erwin: *See*—
Lecher, Hans Z., and Kuh.

Kummerman, Henri, Neuilly-sur-Seine, France. Handling of freight aboard ships. 2,654,488, Oct. 6.

Kündig, Werner: *See*—
Suter, Hans, Habicht, and Kündig.

Kurth, Matthew G., Milwaukee, Wis. Hose coupling device for connection to unthreaded faucets. 2,654,618, Oct. 6.

Ladish Co., assignee: *See*—
Gaum, Gilbert A.

Lahr, Carolyn, assignee: *See*—
Tuck, James A.

Lake, Eugene T., Brodheadsville, Pa. Process and apparatus for producing slate shingles or the like. 2,654,358, Oct. 6.

Lamac Process Company, assignee: *See*—
Suerken, Maxwell C.

Lambert, Harry L., Webster, N. Y., assignor to The National Cash Register Company, Dayton, Ohio. Totalizer control mechanism for multiple totalizer adding-subtracting machines. 2,654,537, Oct. 6.

Landis Tool Company, assignee: *See*—
Dunn, Elman R., and Price.

Langsett, Victor M., trustee, assignee: *See*—
Priem, Martin E.

La Porte, Walter N., Swarthmore, assignor to Sun Oil Company, Philadelphia, Pa. Treatment of lubricating oil. 2,654,696, Oct. 6.

La Societe des Accumulateurs Elbric, S. A., assignee: *See*—
Zaugg, Samuel.

Lathrop, La Verne B., Dundee, Ill. Nursing bottle support. 2,654,556, Oct. 6.

Laverty, Martin, West Hempstead, assignor to Murray Manufacturing Corporation, Brooklyn, N. Y. Electric circuit interrupter. 2,654,815, Oct. 6.

La Vire, Joseph A., Pontiac, Mich. Bow sight. 2,654,152, Oct. 6.

Lawser, John J., assignor to Proctor Electric Company, Philadelphia, Pa. Electric switch. 2,654,816, Oct. 6.

Layte, Ralph R., Westfield, assignor to Purolator Products, Inc., Rahway, N. J. Method and apparatus for manufacture of plastic edge type filters. 2,654,124, Oct. 6.

Lazzarini, Aldo, Van Nuys, Calif. Controlled contour lawn sprinkler. 2,654,635, Oct. 6.

Leah, Amy S., Runcorn, and R. B. Mooney, Liverpool, England, assignors to Imperial Chemical Industries Limited. Production of uranium tetrafluoride. 2,654,654, Oct. 6.

Le Baron, Ira M., Lakeland, Fla., assignor to International Minerals & Chemical Corporation. Classification of phosphate ore. 2,654,477, Oct. 6.

Lecher, Hans Z., Plainfield, and E. Kuh, New Brunswick, N. J., assignors to American Cyanamid Company, New York, N. Y. Organic derivatives of phosphonic acids and preparing the same. 2,654,738, Oct. 6.

Lee, Chin Yi: *See*—
Hu, Quang Hsi and Lee.

Lee, Clifford C., Aberdeen, S. Dak. Adjustable spring jaw chuck. 2,654,611, Oct. 6.

Legendre, Victor J., Vauxhall, and J. V. Volk, Union, assignors to Tung-Sol Lamp Works, Inc., Newark, N. J. Manufacture of grid structures. 2,654,401, Oct. 6.

Leich Electric Company, assignee: *See*—
Boswau, Hans P., and Reid.

Leitz, Ernst, G. m. b. H., assignee: *See*—
May, Erwin.

Lemmon, Norman E., Hammond, F. W. Schuessler, Valparaiso, Ind., and D. W. Bransky, assignors to Standard Oil Company, Chicago, Ill. Extraction of sulfuric acid sludge. 2,654,777, Oct. 6.

Lesher, Carl E., Ben Avon Heights, assignor to Pittsburgh Consolidation Coal Company, Pittsburgh, Pa. Discharging solids and gases from a fluidized bed. 2,654,699, Oct. 6.

Leslie, Allan C., Watrous, Saskatchewan, Canada. Floor laying tool. 2,654,408, Oct. 6.

Lester, John T.: *See*—
Ake, Paige W., and Lester.

Lever Brothers Company, assignee: *See*—
Fulmer, Carl G., and Int-Hout.

Lewis, Arthur J., assignor to The Baird Machine Company, Stratford, Conn. Power transmission mechanism. 2,654,260, Oct. 6.

Lewis, William R., Kansas City, Mo., assignor to C. J. Patterson Company. Consistency measuring apparatus responsive to motor current. 2,654,860, Oct. 6.

Liberatore, Allen O., Baltimore, Md. Awning, canopy, etc. 2,654,424, Oct. 6.

Lichtenberg, Erich H. assignor to Koehring Company, Milwaukee, Wis. Carry-type scraper with front digger moving means. 2,654,165, Oct. 6.

Lico Manufacturing Co., Inc., assignee: *See*—.
Caigi, Paul G.

Lidseen, Gustave, Oak Park, assignor to Gustave Lidseen, Inc., Chicago, Ill. Piston. 2,654,646, Oct. 6.

Lidseen, Gustave, Inc., assignee: *See*—
Lidseen, Gustave.

Liebers, Albert S., New York, N. Y. Golf club construction. 2,654,608, Oct. 6.

Ligett, Waldo B., Pontiac, R. D. Closson, Detroit, and C. N. Wolf, Ferndale, Mich., assignors to Ethyl Corporation, New York, N. Y. N,N'-phthalyl hydrazine fungicidal composition. 2,654,689, Oct. 6.

Ligett, Waldo B., Berkley, Mich., assignor to Ethyl Corporation, New York, N. Y. New chlorofluoro derivatives of cyclohexane and making same. 2,654,789, Oct. 6.

Lightning & Transients Research Institute, Inc., assignee: *See*—
Newman, Morris M.

Lilly, Eli, and Company, assignee: *See*—
Caldwell, William T.
Rhodehamel, Harley W., Jr.

Lily-Tulip Cup Corporation, assignee: *See*—
Klaute, Herman J.

Lindley, Harvey W.: *See*—
Long, Nathan A., Carter, Lindley, Stadler, and Fogleman.

Lipiner, Edmund: *See*—
Win, Bernhard, and Lipiner.

Lippold, Carl J., Wauwatosa, assignor to J. M. Nash Company, Milwaukee, Wis. Method and apparatus for sanding and polishing spools and the like. 2,654,188, Oct. 6.

List, Hans, assignee: *See*—
Scheiterlein, Andreas.

Little, Arthur D., Inc., assignee: *See*—
Buron, Harry A.
Harford, Charles G., Kreidl, and Utter.

Lockemann, Wilneim: *See*—
Rosnberg, Ehrhard, and Lockemann.

Lohs, Willy, Berlin-Siemensstadt, and F. Sommer, Berlin-Nikolassee, assignors to Siemens & Halske Aktiengesellschaft, Munich and Berlin, Germany. Step-by-step electric motor. 2,654,846, Oct. 6.

Lommen, Robert M.: *See*—.
Feldhausen, Cyril P., Lommen, and Rouse.

Londergan, Thomas E., Niagara Falls, and W. R. Schmitz, Grand Island, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of 4-methyl-5-(β-hydroxyethyl)-thiazole. 2,654,760, Oct. 6.

Long Finishing Mills, Inc., assignee: *See*—
Long, Nathan A., Carter, Lindley, Stadler, and Fogleman.

Long, Melvin, Dayton, Wash. Combine having side hill platform adjustments. 2,654,207, Oct. 6.

Long, Nathan A., L. T. Carter, H. W. Lindley, L. B. Stadler, and W. L. Fogleman, assignors to Long Finishing Mills, Inc., Burlington, N. C. Apparatus for treatment of polyamide fabrics. 2,654,162, Oct. 6.

Longdon, John T.: *See*—
Beaudry, George D., Longdon, and Brink.

Lontz, John F., Wilmington, Del., assignor to American Cyanamid Company, New York, N. Y. 2-ethylamino derivatives of 1,2,3,4-tetrahydronaphthol. 2,654,757, Oct. 6.

Lord, Arthur V., assignor to Pye Limited, Cambridge, England. Radar beacon transmitter. 2,654,833, Oct. 6.

Lorentzen Hardware Mf'g. Corp., assignee: *See*—
Nelson, Harry.

Lorig, Edwin T., Ross Township, Allegheny County, Pa., assignor to United States Steel Corporation. Continuous strand helical conveying apparatus. 2,654,139, Oct. 6.

Losching, Bernard H., assignor to The Schlueter Co., Janesville, Wis. Combination water and space combustion heater. 2,654,361, Oct. 6.

Lowe, William H.: *See*—
Cope, Lively O., and Lowe.

Lucarelli, Andrew L., Lancaster, Pa., assignor to Radio Corporation of America. Sealing apparatus. 2,654,181, Oct. 6.

Ludt, Edward W., Verona, N. J., assignor to Combustion Engineering, Inc., New York, N. Y. Header integral with and sealed into boiler casing. 2,654,353, Oct. 6.

Lueck, Laurence B., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Magnetic recording tape. 2,654,681, Oct. 6.

Luft, Karl, Toulouse, assignor to "Office National d'Etudes et de Recherches Aeronautiques" (O. N. E. R. A.), Paris, France. Spectrophotometer. 2,654,287, Oct. 6.

Lundberg, Andrew T., Minneapolis, Minn. Pocket holster for fountain pens and the like. 2,654,130, Oct. 6.

Lundkvist, Reinhold J., Malmo, assignor of one-half to G. B. Thyrén, Hobog, Sweden. Curtain supporting device. 2,654,486, Oct. 6.

Lusht, Julius: *See*—
Rutbell, Clarence C., and Lusht.

Lutz, Carrie G., assignee: *See*—
Lutz, Donald C.

Lutz, Donald C., assignor of one-half to C. G. Lutz, Hollywood, Calif. Steel square calculator. 2,654,158, Oct. 6.

Lydfors, John, Stockholm, assignor to Aktiebolaget Dixma, Malmo, Sweden. Engageable and releasable axle clutch. 2,654,455, Oct. 6.

Lynch, Lawrence, Los Angeles, Calif. Rotary abrading strip holder. 2,654,192, Oct. 6.

Lynch, Leslie S.: *See*—
Corradini, Robert E., Lynch, Bonomi, and Engel.

Lyon, George A., Detroit, Mich. Wheel cover. 2,654,637, Oct. 6.

Lytton, Marion R., West Chester, Pa., assignor, by mesne assignments, to The Chemstrand Corporation, Decatur, Ala. Solutions of polymeric materials comprising at least 80 percent of polymerized acrylonitrile. 2,654,721, Oct. 6.

Macco Oil Tool Company, Inc., assignee: *See*—
Carlisle, Willis C., and McCarvell.

Machlett Laboratories Incorporated, assignee: *See*—
Agule, George J.

Magoon, Osborn P., assignor to L. C. Davey, Alameda, Calif. Paint applying roller. 2,654,107, Oct. 6.

Mallinckrodt Chemical Works, assignee: *See*—
Homeyer, August H., and De La Mater.

Maniscalco, Pietro, St. Louis, Mo. Walker for invalids. 2,654,416, Oct. 6.

Manning, Maxwell & Moore, Incorporated, assignee: *See*—
Pech, Karl H.

Manufacturers and Traders Trust Company, The, executor, assignee: *See*—
Wilson, Frank C., and Silliman.

Marble, Jarvis C., trustee, assignee: *See*—
Boestad, Gustav K. W., and Eriksson.

Marriott, Harold G., Ouaquaga, N. Y. Self-inking rubber stamp pad. 2,654,342, Oct. 6.

Marsh, Dean: *See*—
Grummitt, Oliver J., Blank, and Marsh.

Marshall, Walton H., Jr., New York, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J. Apparatus for nitration of organic compounds. 2,654,658, Oct. 6.

Marshall, Walton H., Jr., Bronxville, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J. Nitration of organic compounds. 2,654,788, Oct. 6.

Martincic, Anton, Chicago, Ill. Multiple notching die. 2,654,428, Oct. 6.

Marxer, Adrian: *See*—
Miescher, Karl, and Marxer.

Mathers, Harry M., assignee: *See*—
McReary, Ronald.

Mathis, Clinton L., assignee: *See*—
Yakopatz, Michael A.

Matters, Robert G.: *See*—
Hoesch, Elmer D., and Matters.

Matteson, Worth L., Jr., Foreman, Ark. Calf puller. 2,654,368, Oct. 6.

May, Erwin, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany. Regulator for take-up reels. 2,654,543, Oct. 6.

May, Geoffrey B.: *See*—
Fisher, James W., Wheatley, and May.

Maytag Company, The, assignee: *See*—
Smith, Thomas R.

McAvoy, Donald F., Belmar, N. J. Radio object locating system. 2,654,883, Oct. 6.

McCabe-Powers Auto Body Co., assignee: *See*—
Humpal, Eugene G., and Balogh.

McCarvell, John H.: *See*—
Carlisle, Willis C., and McCarvell.

McCoppin, Everett R., Dayton, Ohio. Wave generator. 2,654,843, Oct. 6.

McCorkle, James B., Evanston, Ill. Producing primed hardboard. 2,654,296, Oct. 6.

McCullough, Jack A.: *See*—
Eitel, William W., McCullough, and Sorg.

McCullough, Patrick E., Chicago, Ill. Joint for roofing or like sheets. 2,654,328, Oct. 6.

McGirr, Robert, Pottsville, Pa., assignor to Atlas Powder Company, Wilmington, Del. Borehole loader. 2,654,285, Oct. 6.

McGraw Electric Company, assignee: *See*—
Horelick, Samuel.

McIlrath, Gladys M., Racine, Wis. Hair curler. 2,654,371, Oct. 6.

McIlvain, John G., Jr.: *See*—
Adorney, Charles S., Gill, and McIlvain.

McIlvaine, Oran T., St. Charles, Ill. Photocell. 2,654,819, Oct. 6.

McKechnie, Ian C., Detroit, Mich., assignor to Elox Corporation of Michigan. Diaphragm spring reciprocating tool. 2,654,256, Oct. 6.

McMillan, Joseph E., assignee: *See*—
Oliver, John G.

McMullan, Orin W., Belleville, assignor to Bower Roller Bearing Company, Detroit, Mich. Alloy steel. 2,654,683, Oct. 6.

McReary, Ronald, assignor to H. M. Mathers, Portland, Oreg. Locked paper box. 2,654,526, Oct. 6.

Merck & Co., Inc., assignee: *See*—
Koniuszy, Frank R., Brink, and Folkers.
Rasmussen, Ida M., and Rogers.

Merrill, Leslie M., trustee, assignee: *See*—
Boestad, Gustav K. W., and Eriksson.

Merritt, A. Jay: *See*—
Funk, Casimir, and Merritt.

Metzler, Charles L.: *See*—
Bowen, Blill, and Metzler.

Meyer, Geo. J., Manufacturing Co., assignee: *See*—
Carter, Sidney T.

Meyer, Hans, Surrey, England. Machine for marking and affixing tabs to articles. 2,654,495, Oct. 6.

Meyer, Hans, Richmond Hill, Richmond, and R. W. Shepherd, Stoke Bishop, Bristol, England, said Shepherd assignor to said Meyer. Machine for affixing tabs to articles. 2,654,496, Oct. 6.

Michaels, Adlai E.: *See*—
Cyphers, Elmer B., and Michaels.

Michel, Mathias, assignor to Aluminum Company of America, Pittsburgh, Pa. Strip metal rolling process and apparatus. 2,654,278, Oct. 6.

Midstate Manufacturing Company, assignee: *See*—
Saunders, Harold A. and C. V.

Miescher, Karl, Riehen, and A. Marxer, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. New azapentylene diammonium salt. 2,654,776, Oct. 6.

Miescher, Karl, Riehen, and A. Marxer, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. Quaternated aza-pentane amines. 2,654,785, Oct. 6.

Miessner, Benjamin F., assignor to Miessner Inventions Inc., Harding Township, Morris County, N. J. Photoelectric translating system. 2,654,810, Oct. 6.

Miessner Inventions Inc., assignee: *See*—
Miessner, Benjamin F.

Milhizer, Edward W., Detroit, Mich. Caster having a swivel lock. 2,654,112, Oct. 6.

Millard, Lee P., Chicago, Ill., assignor to International Harvester Company. Cotton picker doffer assembly. 2,654,202, Oct. 6.

Millard, Lee P., and H. O. Vogel, Chicago, Ill., assignors to International Harvester Company. Baler press mechanism for forming vented bales. 2,654,308, Oct. 6.

Miller Company, The, assignee: *See*—
Runge, Richard M., and Pascucci.

Miller, Floyd F.: *See*—
Gilbert, Harry, and Miller.

Miller, Fred B., Hagerstown, Md. Truss head and mounting therefor. 2,654,366, Oct. 6.

Miller, Rosalie E., executrix: *See*—
Miller, Samuel C.

Miller, Samuel C., deceased, New York, N. Y.; R. E. Miller, executrix. High-voltage electrode housing and terminal assembly for gaseous discharge tubes. 2,654,870, Oct. 6.

Miller Wrapping & Sealing Machine Co., assignee: *See*—
Corley, Mark H., Arvidson, and Barber.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Ergen, William K.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Lueck, Laurence B.
Nestor, Leonard R.

Minshall, Robert J., Shaker Heights, Ohio, assignor to Borg-Warner Corporation, Chicago, Ill. Gear type pump with pressure loaded bushing and wear insert element. 2,654,325, Oct. 6.

Miollis, Raymond, Maywood, Ill., assignor to The Borden Company, New York, N. Y. Cheese making apparatus. 2,654,151, Oct. 6.

Miracle-Vac, Inc., assignee: *See*—
Bowen, Daniel W.

Mitchell, Clyde O.: *See*—
Bogdanffy, George W., Mitchell, and Uhlig.

Mitchell, Edward, Pittsburgh, Pa., and A. P. Cramp, Petaluma, Calif., assignors to Gulf Research & Development Company, Pittsburgh, Pa. Stable fuel oil compositions. 2,654,660, Oct. 6.

Mitchell, Edward, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Compounded hydrocarbon oils and addition agents therefor. 2,654,708, Oct. 6.

Mitchell, Edward, Pittsburgh, and W. B. Morse, New Kensington, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Compounded hydrocarbon oils and addition agents therefor. 2,654,709, Oct. 6.

Mitchell, Jack C.: *See*—
Grizzard, Earle D., Collar, and Mitchell.

Mitchell, Walter G., assignor to Thor Power Tool Company, Aurora, Ill. Portable power-operated abrading machine. 2,654,190, Oct. 6.

Mo Och Domsjo Aktiebolag, assignee: *See*—
Stelling, Per O., and Flemmert.

Mockli, Rene, Upper Darby, Pa. Combined automobile tray and passenger safety guard. 2,654,616, Oct. 6.

Molenaar, Lester V., Lake Lillian, Minn. Grain drier. 2,654,590, Oct. 6.

Moll, Harold W., assignor to The Dow Chemical Company, Midland, Mich. Coagulation and washing of normally crystalline vinylidene chloride polymer emulsions. 2,654,730, Oct. 6.

Monsanto Chemical Company, assignee: *See*—
Cohen, Oscar P., and Rossin.
Zerbe, Richard O.

Montgomery, Charles W.: *See*—
Gilbert, William I., and Montgomery.

Mooney, Ronald B.: *See*—
Leah, Amy S., and Mooney.

Mooradian, Victor G., East Orange, assignor to The H. A. Wilson Company, Newark, N. J. Gold base alloy. 2,654,146, Oct. 6.

Morden, Charles W., assignor to Morden Machines Company, Portland, Oreg. Pulp shredding and treating machine. 2,654,294, Oct. 6.

Morden Machines Company, assignee: *See*—
Morden, Charles W.

Morgan Construction Company, assignee: *See*—
Morgan, Myles, and O'Malley.

Morgan, Myles, and J. M. O'Malley, assignors to Morgan Construction Company, Worcester, Mass. Bearing. 2,654,642, Oct. 6.

Morse, Willard B.: *See*—
Mitchell, Edward, and Morse.

Mosshart, Donald J., Ardmore, Pa., assignor, by mesne assignments, to Detroit Stoker Company. Stoker apparatus. 2,654,331, Oct. 6.

Motorola, Inc., assignee: *See*—
Zarky, Bert.

Mudd, Ralph L., Jr., Maplewood Park, Ill. Electric swivel plug. 2,654,869, Oct. 6.

Mueller, Robert A., and R. L. Crain, assignors to Gray Tool Company, Houston, Tex. Valve with removable seat. 2,654,563, Oct. 6.

Muffly, Glenn, Springfield, Ohio. Room cooling and heating system. 2,654,227, Oct. 6.

Muller, Johan A., Cuyahoga Falls, assignor to Adamson United Company, Akron, Ohio. Curved side plate hydraulic press. 2,654,310, Oct. 6.

Murphy, Bernard J., Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Resilient vehicle suspension. 2,654,614, Oct. 6.

Murray Manufacturing Corporation, assignee: *See*—
Laverty, Martin.

Murray, Thomas L., Orange, N. J. Folding sectional top utility table. 2,654,647, Oct. 6.

N. V. Vereenigde Tabaksindustrieen Mignot & De Block, assignee: *See*—
Van Buul, Everardus W. C.

Nagy, Berthold, Brooklyn, N. Y. Bottle crown cap assembling machine gluing attachment. 2,654,341, Oct. 6.

Nallinger, Friedrich K. H., Stuttgart, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Steering gear. 2,654,265, Oct. 6.

Nash, David D., executor, assignee: *See*—
Wilson, Frank C., and Silliman.

Nash, J. M., Company, assignee: *See*—
Lippold, Carl J.

National Cash Register Company, The, assignee: *See*—
Brubaker, Damon P., and Woodley.
Dudis, Charles G., and Du Bois.
Lambert, Harry L.
Steinhardt, David W.

National Cylinder Gas Company, assignee: *See*—
Reed, Robert M.

National Lead Company, assignee: *See*—
Herman, Daniel F.

National Starch Products Inc., assignee: *See*—
Caldwell, Carlyle G., and Wurzburg.

National Tea Packing Company, Inc., assignee: *See*—
Irmscher, Hans O.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Adkins, Homer B.

Near, John F.: *See*—
Geckler, Ernest W., and Near.

Neff, Edward B., Shaker Heights, assignor to Erico Products, Inc., Cleveland, Ohio. Method of and apparatus for welding. 2,654,129, Oct. 6.

Neff, Roy G., Burlington, Iowa. Wheeled base for chairs. 2,654,421, Oct. 6.

Nelson, Frederick L.: *See*—
Andress, Harry J., Jr., and Nelson.

Nelson, Harry, assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y. Assembling Venetian blinds. 2,654,141, Oct. 6.

Nelson, Harry J., Pocatello, Idaho. Apparatus for molding hamburger steak patties and the like. 2,654,121, Oct. 6.

Nelson, Hildred, Chicago, Ill. Woman's garment. 2,654,091, Oct. 6.

Nestor, Leonard R., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Disintegrable label and washable container labeled therewith. 2,654,170, Oct. 6.

Nestor, Leonard R., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Disintegrable label and washable container labeled therewith. 2,654,171, Oct. 6.

Nettleton, Felix L., Kingston, N. Y. Expansion dowel. 2,654,297, Oct. 6.

Neuhauser, Franz, and R. Prinz, Vienna, Austria. Multiple chain saw machine for cutting timber. 2,654,404, Oct. 6.

Newburgh Metal Mfg. Corp., assignee: *See*— Kirchofer, Alvin.

Newman, Morris M., St. Paul, assignor to Lightning & Transients Research Institute, Inc., Minneapolis, Minn. Apparatus for static pulse rejection. 2,654,835, Oct. 6.

Newton, Robert, East Melbourne, Victoria, Australia. Gas meter. 2,654,247, Oct. 6.

Newton, Robert, East Melbourne, Victoria, Australia. Lubricated gas meter. 2,654,248, Oct. 6.

New York Central Railroad Company, The, assignee: *See*— Simpson, Arthur L.

Nichols, Thomas W., Hutton, England. Rotary compressor. 2,654,532, Oct. 6.

Nielsen, A. C., Company, assignee: *See*— Black, James G.

Nisenson, Jules, Croton-on-Hudson, N. Y. Cooking apparatus. 2,654,307, Oct. 6.

Nixon Nitration Works, assignee: *See*— Sorenson, Roy A.

Noe, Harold C., Upper Montclair, assignor to Kidde Manufacturing Co., Inc., Bloomfield, N. J. Needle mounting for knitting machines. 2,654,237, Oct. 6.

Noon, T Cyril, Bainbridge Township, Geauga County, and R. J. Anderson, assignors to Thompson Products, Inc., Cleveland, Ohio. Fuel tank. 2,654,553, Oct. 6.

Norcross, Sterling E., Bloomfield, N. J. Garment support. 2,654,132, Oct. 6.

Nordmark, Walter E., assignor to American Seating Company, Grand Rapids, Mich. Folding chair. 2,654,419, Oct. 6.

Norris, Raymond W., Warren, Pa. Display bedrail. 2,654,101, Oct. 6.

Northrop Aircraft, Inc., assignee: *See*— Hansen, Otto A. Jonas, Julius.

Nye, Ralph D., and D. J. Demorest, Columbus, Ohio. Producing concentrates of uranium and vanadium from low-bearing ores. 2,654,653, Oct. 6.

Nygaard, Edwin M.: *See*— Kosacik, Alfred P., and Nygaard.

Oakite Products, Inc., assignee: *See*— Adorney, Charles S., Gill, and McIlvain.

Oberman, Roelof M. M., and A. Snijders, The Hague, Netherlands. Wheatstone bridge testing arrangement. 2,654,837, Oct. 6.

O'Brien, John T., assignee: *See*— Rich, Edward L., Bauer, and Dengel.

Oetzel, John G., Beloit, Wis., assignor to Warner Electric Brake & Clutch Company. Friction device. 2,654,445, Oct. 6.

"Office National d'Etudes et de Recherches Aeronautiques" (O. N. E. R. A.), assignee.: *See*— Luft, Karl.

O'Hare, James K., Alliance, assignor to Royal China Inc., Sebring, Ohio. Machine for decorating articles such as cups, pitchers, bowls, and the like. 2,654,313, Oct. 6.

Ohlendorf, Emil F., assignor to Deere & Company, Moline, Ill. Power-driven stalk cutter. 2,654,199, Oct. 6.

Oldberg, Sidney, Birmingham, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio. Hydraulic tappet. 2,654,356, Oct. 6.

Oldberg, Sidney, Birmingham, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio. Supercharger. 2,654,530, Oct. 6.

Oliver, John G., Bellflower, assignor of twenty-five per cent to E. H. Rehder, Brea, twenty-five per cent to H. H. Briggs, Pasadena, and twenty-five per cent to J. E. McMillan, Bellflower, Calif. Well cementing shoe. 2,654,435, Oct. 6.

Olsen, Horace W., Houston, Tex. Pump. 2,654,322, Oct. 6.

Olson, Edward, Seattle, Wash. Dredge trommel. 2,654,481, Oct. 6.

Olsson, Robert E. O., and A. B. Dahl, assignors to Industriaktiebolaget Luxor, Motala, Sweden. Magnetic sound recording and reproducing apparatus. 2,654,808, Oct. 6.

Olthuis, Eugene G.: *See*— Welch, Stanley B., and Olthuis.

O'Malley, Joseph M.: *See*— Morgan, Myles, and O'Malley.

Orr, Palmer, and K. M. Armantrout, Muncie, Ind., assignors to Borg-Warner Corporation, Chicago, Ill. Lubrication means for transmissions. 2,654,441, Oct. 6.

Orthner, Ludwig, Frankfurt am Main, and M. Rieber, assignors to Farbwerke Hoechst Aktiengeseilschaft vormals Meister Lucius und Bruning, Frankfurt am Main Hochst, Germany. Process of preparing light-colored rubber hydrochlorides. 2,654,793, Oct. 6.

Otto, Ferdinand P., and O. M. Reiff, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Esters of thiophene-modified maleic anhydride-styrene copolymers. 2,654,727, Oct. 6.

Oyler, Emory C., Chambersburg, Pa. Device for estimating the board foot contents of standing trees. 2,654,153, Oct. 6.

Pacific Pumping Company, assignee: *See*— Culleton, John T.

Packard Motor Car Company, assignee: *See*— Witzky, Julius E.

Padevco, Inc., assignee: *See*— Wilmotte, Raymond M.

Palmer, George H., Fanwood, assignor to The M. W. Kellogg Company, Jersey City, N. J. Production of fatty acid concentrates. 2,654,768, Oct. 6.

Palmer, Winslow, West Hempstead, N. Y., assignor to The Sperry Corporation. Radio distance measuring system. 2,654,884, Oct. 6.

Papa, Domenick, Brooklyn, N. Sperber, Bronx, and F. Villani, Brooklyn, N. Y., assignors to Schering Corporation, Bloomfield, N. J. Substituted ethylenediamine derivatives. 2,654,758, Oct. 6.

Park, Glenn S.: *See*— Duis, Glenn A., and Park.

Parker, Edwin D., Springfield, Ohio, assignor to Parker Sweeper Company. Lawn sweeper. 2,654,106, Oct. 6.

Parker Sweeper Company, assignee: *See*— Parker, Edwin D.

Parkerton, Howard F., South Gate, Calif., assignor to International Harvester Company. Bonded doffer for mechanical cotton pickers. 2,654,203, Oct. 6.

Parsell, Kendrick T., Manhasset, N. Y. Spectacle case. 2,654,503, Oct. 6.

Parsons, Ellis H., Hartsville, S. C., assignor to Sonoco Products Company. Molded plastic spool and drive. 2,654,342, Oct. 6.

Pascucci, Julio A.: *See*— Runge, Richard M., and Pascucci.

Pasewalk, LeRoy W., and J. F. Reimer, assignors to Invincible Metal Furniture Company, Manitowoc, Wis. Capped corner and metal top anchorage for furniture. 2,654,649, Oct. 6.

Pasturczak, Stanley F., East Moline, assignor to Deere & Company, Moline, Ill. Helical cutting mechanism for harvesters. 2,654,208, Oct. 6.

Patterson, C. J., Company, assignee: *See*— Lewis, William R.

Patterson, Edgar W., Downey, Calif. Air compressor. 2,654,531, Oct. 6.

Patterson, Hugh T., Waynesboro, Va., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Polymerization control of acrylonitrile. 2,654,731, Oct. 6.

Pattison, Wesley S., Bethel, and E. B. Hawthorne, Danbury, Conn., assignors to General Electric Company. Means for controlling the operation of doors or the like. 2,654,117, Oct. 6.

Pavlic, Albert A., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. 2-(1,3,3-trimethylbutyl)-5,7,7-trimethyl octanol-1-sulfate. 2,654,772, Oct. 6.

Pearce, William L., Houston, Tex. Earth formation disintegrating drill. 2,654,578, Oct. 6.

Pearson, William S., assignor to Clifton Conduit Company, Inc., Baltimore, Md. Burr remover. 2,654,292, Oct. 6.

Pech, Karl H., Bridgeport, Conn., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y. Shuttle valve. 2,654,564, Oct. 6.

Peller, Karl E., West Hartford, Conn, assignor to Emhart Manufacturing Company. Glass feeding apparatus. 2,654,184, Oct. 6.

Peller, Karl E., West Hartford, Conn., assignor to Emhart Manufacturing Company. Glass feeder refractory implement chuck. 2,654,186, Oct. 6.

Pelton Water Wheel Company, The, assignee: *See*— Rued, Fred H.

Pennsylvania Salt Manufacturing Company, The, assignee: *See*— Davis, James A., and Eastwood.

Perfect Circle Corporation, assignee: *See*— Jones, Cernyw F.

Perkins, Charles M., Kalamazoo, Mich., assignor to Fuller Manufacturing Company. Shift control for auxiliary transmissions. 2,654,268, Oct. 6.

Petersen, Clifford C., Chicago, Ill., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Air Force. Cell for electrical measurement of liquid dielectrics. 2,654,862, Oct. 6.

Peterson, Earl W., Chicago, Ill., assignor to Dearborn Motors Corporation, Detroit, Mich. Agricultural implement and tine construction therefor. 2,654,197, Oct. 6.

Peterson, Elmer J., Minneapolis, Minn., assignor to Franklin Transformer Manufacturing Company, Inc. Variable time automatic clothes drier and control therefor. 2,654,160, Oct. 6.

Peterson, Walter R., Hinsdale, and A. C. Radtke, Oak Park, Ill., assignors to International Harvester Company. Mechanized feeding mechanism for animals. 2,654,344, Oct. 6.

Pfau, Julius H., Yonkers, N. Y., assignor to Alexander Smith, Incorporated. Flowmeter. 2,654,246, Oct. 6.

Phlico Corporation, assignee: *See*— Ammlung, Louis C., Jr., and Tourtellot.

Phillips Petroleum Company, assignee: *See*— Friedman, Alvin H. Gilmore, Forrest E. Goodhue, Lyle D., and Tissot. Piety, Raymond G.

Philpott, La Verne R., Washington, D. C. Echo ranging system. 2,654,881, Oct. 6.

Phinney, John A., Mount Lebanon, assignor to Pittsburgh Consolidation Coal Company, Pittsburgh, Pa. Gasification of carbonaceous solids. 2,654,665, Oct. 6.

Phinney, John A., Mount Lebanon, assignor to Pittsburgh Consolidation Coal Company, Pittsburgh, Pa. Low-temperature distillation of coal. 2,654,698, Oct. 6.

Phipps, Willis E., Mobile, Ala. Electric stamping system. 2,654,312, Oct. 6.

Pierce, Lee D., Fulton, N. Y. Nesting container shells. 2,654,473, Oct. 6.

Pierce, Robert L., San Antonio, Tex. Artificial window. 2,654,827, Oct. 6.

Piety, Raymond G., Bartlesville, Okla., assignor to Phillips Petroleum Company. Packing device. 2,654,433, Oct. 6.

Pigott, Joseph D.: *See*— Donoghue, Florence F., Sanderson, and Pigott.

Pine, William S., Los Angeles, Calif. Hydraulic jack. 2,654,568, Oct. 6.

Pitavy, Pierre F. M., Chalon-sur-Saone, assignor to Societe Anonyme dite: Societe Industrielle de Ferbianterie, Paris, France. Glass lifting mechanism for hurricane lamps. 2,654,829, Oct. 6.

Pittsburgh Consolidation Coal Company, assignee: *See*— Gorin, Everett. Lesher, Carl E. Phinney, John A. Reichl, Eric H., and Safford.

Pollock, Helen, executrix: *See*— Rachlin, Max.

Pollock, Willard M., Short Hills, N. J., assignor to American Type Founders, Inc. Printing press. 2,654,316, Oct. 6.

Porter, Charles W.: *See*— Russell, Frank C., and Porter.

Poupitch, Ougljesa J., Itasca, assignor to Illinois Tool Works, Chicago, Ill. Fastening device. 2,654,131, Oct. 6.

Powers, James H., Westport, Conn., assignor to General Electric Company. Water control for disposal units. 2,654,540, Oct. 6.

Powers Regulator Company, The, asignee: *See*— Thorburn, David H.

Presens, Cecil S., Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Vapor detector. 2,654,845, Oct. 6.

Press, Frank, Palisades, assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Seismic exploration system. 2,654,874, Oct. 6.

Pressler, Philip J., Dearborn, assignor to Whitehead & Kales Company, River Rouge, Mich. Skid arrangement for haulaway vehicles. 2,654,492, Oct. 6.

Price, Donald F.: *See*— Dunn, Elman R., and Price.

Price, Earl R., assignor to Bendix Aviation Corporation, South Bend, Ind. Power-operated hydraulic actuator. 2,654,224, Oct. 6.

Price, Earl R., assignor to Bendix Aviation Corporation, South Bend, Ind. Servomotor control valve. 2,654,391, Oct. 6.

Price, John A., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Polymerizable and polymerized compositions comprising an N-alkenyl-o-alkylisourea. 2,654,725, Oct. 6.

Price, John A., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Polymerizable compositions comprising an unsaturated quaternary ammonium compound and polymerization products thereof. 2,654,729, Oct. 6.

Priem, Martin E., Bristol, Ind., assignor, by mesne assignments, to V. M. Langsett, Chicago, Ill., as trustee. Muntin cross joint in an insulated metal closure. 2,654,452, Oct. 6.

Prime Manufacturing Company, assignee: *See*— Ridderstrom, Andrew R.

Pringnitz, Harley W.: *See*— Pringnitz, Lloyd H., and H. W.

Pringnitz, Lloyd H., Goodell, and H. W. Pringnitz, Kanawha, Iowa. Clutch and throttle control for balers. 2,654,263, Oct. 6.

Prinz, Rudolf: *See*— Neuhauser, Franz, and Prinz.

Proctor Electric Company, assignee: *See*— Lawser, John J.

Proctor, Sidney E., assignor to Austin Hoy & Company Limited, Aylesbury, England. Locking device for tool-holding or like set-screws. 2,654,410, Oct. 6.

Products and Licensing Corporation, assignee: *See*— Toulon, Pierre M. G.

Pulman, William E. E., assignor to C. V. A. Jigs, Moulds & Tools Limited, Hove, England. Indexing mechanism for turrets of automatic machine tools. 2,654,271, Oct. 6.

Pure Oil Company, The, assignee: *See*— Heal, Paul E.

Purolator Products, Inc., assignee: *See*— Layte, Ralph R.

Purvis, Joseph T.: *See*— Boyd, Winnett, and Purvis.

Purvis, Thomas A., Tulsa, Okla. Corn planting machine having rotary ground-engaging seed reservoirs. 2,654,510, Oct. 6.

Pusch, Frederick A., Brooklyn, N. Y. Pot cleaner. 2,654,191, Oct. 6.

Pusheck, Herbert W., Evanston, Ill. Device for use in tearing sheet material. 2,654,544, Oct. 6.

Pye Limited, assignee: *See*— Lord, Arthur V.

Pyle-National Company, The, assignee: *See*— Heehler, Arthur C.

Qualitrol Corporation, assignee: *See*— Ford, George E.

Raab, Louis J., Lower Saucon Township, Northampton County, Pa. Blade sharpener and making the same. 2,654,194, Oct. 6.

Rachlin, Eva, executrix: *See*— Rachlin, Max.

Rachlin, Max, deceased, Flushing, N. Y.; H. Pollock, and E. Rachlin, executrices. Gutter circle and making same. 2,654,555, Oct. 6.

Radio Corporation of America, assignee: *See*— Atwood, John B. Beck, Francis X., and Bent. Denton, Bethel E. Dutton, Oscar B. Goodrich, Robert R. Herbst, Philip J. Lucarelli, Andrew L. Robinson, Harris A. Seright, Carl G. Thierfelder, Charles W. Tourshou, Simeon L., and Skorup. Weimer, Paul K. Wendt, Karl R.

Radtke, Adelbert C.: *See*— Courtney, Joseph F., and Radtke. Peterson, Walter R., and Radtke.

Radtke, Adelbert C., Oak Park, Ill., assignor to International Harvester Company. Glass fiber drawing device. 2,654,183, Oct. 6.

Rambert, Raymond L., Gonesse, assignor to S. A. T. A. M. Societe Anonyme pour Tous Appareillages Mecaniques, La Courneuve, Seine, France. Fluid measuring and dispensing apparatus. 2,654,506, Oct. 6.

Randall, Roy, assignee: *See*— Bathurst, Thomas T.

Raney, Russell R., Western Springs, and E. F. Huddle, Elmwood Park, Ill., assignors to International Harvester Company. Harvester pickup. 2,654,209, Oct. 6.

Rappleyea, Frederick A., Oak Park, assignor to Hubbard Spool Company, Chicago, Ill. Fiber glass spool. 2,654,549, Oct. 6.

Rasmussen, Ida M., New Brunswick, and E. F. Rogers, Middletown, assignors to Merck & Co., Inc., Rahway, N. J. Mothproofing agent and material containing the same. 2,654,677, Oct. 6.

Rasmussen, Svend A., New York, N. Y. Ratchet wrench for use with turnbuckles. 2,654,281, Oct. 6.

Ray, Linton G., Jr., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dyeing of acrylonitrile polymers with acetate dyes. 2,654,652, Oct. 6.

Raytheon Manufacturing Company, assignee: *See*— Riblet, Henry J. Saul, Waldo A., and Staller.

Rea, Wilton T., Manhasset, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cathode-ray translating system for permutation codes. 2,654,878, Oct. 6.

Ready, Ethel M., New York, N. Y. Cosmetic applicator. 2,654,111, Oct. 6.

Redfield, Charles V., Portland, Oreg. Lawn edger. 2,654,180, Oct. 6.

Reed, Robert M., Louisville, Ky., assignor, by mesne assignments, to National Cylinder Gas Company, Chicago, Ill. Tubular reactor with expansion compensator. 2,654,657, Oct. 6.

Reese, Richard T., Van Nuys, Calif. Universal bearing. 2,654,643, Oct. 6.

Reeves, Herbert M., Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass. Gas cookstove with combined top pilot and simmer burner. 2,654,359, Oct. 6.

Rehberg, Chessie E., Glenside, and C. H. Fisher, Abington, Pa., assignors to the United States of America as represented by the Secretary of Agriculture. Curing polymers of monoethylenic ethers and ether-esters. 2,654,717, Oct. 6.

Rehder, Earl H., assignee: *See*— Oliver, John G.

Reichl, Eric H., Mount Lebanon, and R. V. Safford, Bethel Township, Allegheny County, assignors to Pittsburgh Consolidation Coal Company, Pittsburgh, Pa. Gasification of carbonaceous solids. 2,654,664, Oct. 6.

Reid, Alexander C.: *See*—
Boswau, Hans P., and Reid.

Reiff, Orland M.: *See*—
Otto, Ferdinand P., and Reiff.

Reim, Manvil A.: *See*—
Katzung, Barney L., and Reim.

Reimer, John F.: *See*—
Pasewalk, LeRoy W., and Reimer.

Renfroe, Joseph C., Jacksonville, Fla. Horizontal plate lifting clamp. 2,654,629, Oct. 6.

Renfroe, Joseph C., Jacksonville, Fla. Plate lifting clamp. 2,654,630, Oct. 6.

Renfroe, Joseph C., Jacksonville, Fla. Open locking plate lifting clamp. 2,654,631, Oct. 6.

Republic Aviation Corporation, assignee: *See*—
Voelker, Edward H.

Research Corporation, assignee: *See*—
Hedberg, Carl W. J.
Wintermute, Harry A.

Rettaliata, John T., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Gas turbine system with treatment between turbine stages. 2,654,217, Oct. 6.

Revco, Inc., assignee: *See*—
Kafer, Clare H.

Reynolds, John P., Dayton, Ohio. Automatic indicator for television quiz shows. 2,654,163, Oct. 6.

Reynolds Metals Company, assignee: *See*—
Saffel, Donald E.

Rhodehamel, Harley W., Jr., assignor to Eli Lilly and Company, Indianapolis, Ind. Salts of penicillin with 0-(2-aminoalkylamino)-benzoic acid esters. 2,654,739, Oct. 6.

Rhodehamel, Harley W., Jr., assignor to Eli Lilly and Company, Indianapolis, Ind. 2-hydroxy-3,3,3-trichloro-1-aminopropane salt of penicillin. 2,654,740, Oct. 6.

Rhodehamel, Harley W., Jr., assignor to Eli Lilly and Company, Indianapolis, Ind. N-β-(3-pyridyl)-ethylmorpholine salt of penicillin. 2,654,741, Oct. 6.

Rhodehamel, Harley W., Jr., assignor to Eli Lilly and Company, Indianapolis, Ind. Gamma-morpholinopropyl cinnamate salt of penicillin. 2,654,742, Oct. 6.

Rhodehamel, Harley W., Jr. assignor to Eli Lilly and Company, Indianapolis, Ind. Delta-piperidinobutyl diphenylacetate salt of penicillin. 2,654,743, Oct. 6.

Rhodehamel, Harley W., Jr., assignor to Eli Lilly and Company, Indianapolis, Ind. β-(2-methylpiperidino) ethylmethylphenylamine salt of penicillin. 2,654,744, Oct. 6.

Rhodehamel, Harley W., Jr., assignor to Eli Lilly and Company, Indianapolis, Ind. 1,2-diphenyl-2-(4-methylpiperidino) ethanol salt of penicillin. 2,654,745, Oct. 6.

Rhodehamel, Harley W., Jr., assignor to Eli Lilly and Company, Indianapolis, Ind. 1-dimethylamino-4-chloro-4-phenylbutane salt of penicillin. 2,654,746, Oct. 6.

Rhodehamel, Harley W., Jr., assignor to Eli Lilly and Company, Indianapolis, Ind. 3-diethylaminomethylpyridine salt of penicillin. 2,654,747, Oct. 6.

Rhodehamel, Harley W., Jr., assignor to Eli Lilly and Company, Indianapolis, Ind. 1-β-naphthyl-1-aminoethane salt of penicillin. 2,654,748, Oct. 6.

Rhodehamel, Harley W., Jr., assignor to Eli Lilly and Company, Indianapolis, Ind. Salts of penicillin with dimethylamino, diphenyl-substituted esters. 2,654,749, Oct. 6.

Rhodehamel, Harley W., Jr., assignor to Eli Lilly and Company, Indianapolis, Ind. Penicillin salt of an amine. 2,654,750, Oct. 6.

Rhodehamel, Harley W., Jr., assignor to Eli Lilly and Company, Indianapolis, Ind. Substituted 2-methylpiperidinopropyl benzoate salts of penicillin. 2,654,751, Oct. 6.

Rhodehamel, Harley W., Jr., assignor to Eli Lilly and Company, Indianapolis, Ind. Beta-4-morpholinoethylbenzoate salt of penicillin. 2,654,752, Oct. 6.

Riblet, Henry J., Belmont, assignor to Raytheon Manufacturing Company, Newton, Mass. Microwave test equipment. 2,654,863, Oct. 6.

Rice, Charles J., Bexley Heath, England. Implement for carrying out digging operations. 2,654,626, Oct. 6.

Rich, Edward L., Bay City, J. K. Bauer, Flint, and W. E. Dengel, assignors of one-sixth each to G. P. Harris, J. T. O'Brien, and A. J. Forgash, Bay City, Mich. Abrasive polishing and grinding disk assembly. 2,654,193, Oct. 6.

Rich, Howard B., assignor to Howard B. Rich, Inc., Carrollton, Ky. Machine for assembling ladders. 2,654,406, Oct. 6.

Rich, Howard B., Inc., assignee: *See*—
Rich, Howard B.

Richmond, Joy H., Beverly Hills, Calif. Hair-setting and hair-trimming appliance. 2,654,374, Oct. 6.

Ridderstrom, Andrew R., Nahant, assignor to Prime Manufacturing Company, Lynn, Mass. Machine and process for making platform soles or shells. 2,654,103, Oct. 6.

Rider, Clarence A.: *See*—
Urquhart, Norman J., and Rider.

Rieber, Martin: *See*—
Orthner, Ludwig, and Rieber.

Riley, Ruth E., Los Angeles, Calif. Interchangeable shoulder pad. 2,654,096, Oct. 6.

Ringler, William A., Wayne, Pa., assignor to The Gardner Board and Carton Co., Middletown, Ohio. Package for capped containers. 2,654,474, Oct. 6.

Rippie, Charles W., assignee: *See*—
Gaylor, Peter J.

Robertson, Robert C., Scarsdale, N. Y. Air distribution system. 2,654,305, Oct. 6.

Robinson, Harris A., Philadelphia, Pa., assignor to Radio Corporation of America. Highly selective and stable wide range frequency converting circuits. 2,654,832, Oct. 6.

Robinson, John W., Atlantic Beach, Fla., assignor to Fram Corporation. Filter element formed of paper impregnated with thermoplastic resin. 2,654,440, Oct. 6.

Robinson, Jhon W., Atlantic Beach, Fla., and W. S. James, Providence, R. I., assignors to Fram Corporation. Filter for removing ice crystals from hydrocarbon liquids and the like. 2,654,482, Oct. 6.

Robinson, Marion B., Great Neck, N. Y. Projectile method and means. 2,654,321, Oct. 6.

Robinson, Ward M., Meadville, Pa. Disposable razor. 2,654,148, Oct. 6.

Roe, A. V., Canada Limited, assignee: *See*—
Boyd, Winnett, and Purvis.
Shaw, George E.

Roe, Ernest, San Francisco, Calif. Flat wire tying machine. 2,654,403, Oct. 6.

Rogers, Edward F.: *See*—
Rasmussen, Ida M., and Rogers.

Rogers, Lester R., Butte, Mont. Footrest. 2,654,420, Oct. 6.

Rohr Aircraft Corporation, assignee: *See*—
Weidel, Joseph C.

Rosencranz, Albert C.: *See*—
Duncan, Thomas W., and Rosencranz.

Roske, Jack W., Crescent City, Calif. Sectional cartridge. 2,654,319, Oct. 6.

Roske, Milton H., Malden, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe upper trimming machine. 2,654,105, Oct. 6.

Rossberg, Ehrhard, Berlin-Siemensstadt, and W. Lockemann, Munich-Haar, assignors to Siemens & Halske, Aktiengesellschaft, Munich and Berlin-Siemensstadt, Germany. Telegraph repeater system. 2,654,803, Oct. 6.

Rossin, Elmer H.: *See*—
Cohen, Oscar P., and Rossin.

Rouse, William H.: *See*—
Feldhausen, Cyril P., Lommen, and Rouse.

Roy, Milton, Company, assignee: *See*—
Sheen, Robert T., Saalfrank, and Welker.

Royal China Inc., assignee: *See*—
O'Hare, James K.

Rudel, Harry W.: *See*—
Kirshenbaum, Abraham D., and Rudel.

Rued, Fred H., Lafayette, assignor to The Pelton Water Wheel Company, San Francisco, Calif. Pumping jack oil makeup and pressure control. 2,654,221, Oct. 6.

Ruist, John T., assignor to Aktiebolaget Svenska Kullagerfabriken, Goteborg, Sweden. Sheet metal pillow block. 2,654,645, Oct. 6.

Rumscheidt, Gottfried E.: *See*—
Goppel, Johan M., Rumscheidt, and Hackmann.

Runge, Norman H.: *See*—
Williams, Leo C., and Runge.

Runge, Richard M., and J. A. Pascucci, assignors to The Miller Company, Meriden, Conn. Direct lighting equipment. 2,654,830, Oct. 6.

Runkle, George L., and D. H. Cox, assignors to Superior Coach Corporation, Lima, Ohio. Leveling means for vehicles. 2,654,633, Oct. 6.

Rupp, William C., Parma, assignor to the Chandler & Price Company, Cleveland, Ohio. Knife control for paper-cutting machines. 2,654,429, Oct. 6.

Russell, F. C., Company, The, assignee: *See*—
Russell, Frank C., and Porter.

Russell, Frank C., Cleveland, and C. W. Porter, Fairview Village, assignors to The F. C. Russell Company, Cleveland, Ohio. Apparatus for placing splines. 2,654,402, Oct. 6.

Russell-Miller Milling Company, assignee: *See*—
Geckler, Ernest W., and Near.

Rutbell, Clarence C., Endicott, and J. Lusht, Endwell, assignors to International Business Machines Corporation, New York, N. Y. Type forming machine. 2,654,317, Oct. 6.

Ryan, Kelly, Equipment Company, assignee: *See*—
Ryan, Kelly P.

Ryan, Kelly P., assignor to Kelly Ryan Equipment Company, Blair, Nebr. Disk harrow. 2,654,198, Oct. 6.

Ryba, Anton, Bolzano, Italy. Electromagnetic pumping device for pumping fluids. 2,654,324, Oct. 6.

S. A. T. A. M. Societe Anonyme pour Tous Appareillages Mecaniques, assignee: *See*—
Rambert, Raymond L.

Saalfrank, Royal Bartlett: *See*—
Sheen, Robert T., Saalfrank, and Welker.

Sacker, Stanley H., New Orleans, La. Home coffee brewing apparatus. 2,654,306, Oct. 6.

Sacra, Charles F., Alton, Ill., assignor to Shell Development Company, Emeryville, Calif. Dewaxing mineral oil. 2,654,693, Oct. 6.

Saffel, Donald E., Louisville, Ky., assignor to Reynolds Metals Company, Richmond, Va. Anodizing rack. 2,654,707, Oct. 6.

Safford, Robert V.: *See*—
Reichl, Eric H., and Safford.

Salfisberg, Leroy L., deceased, South Orange, N. J., by H. G. Kopald, New York, N. Y., and L. I. Volckening, Glen Ridge, executors, assignors to Ivers-Lee Company, Newark, N. J. Sealed package. 2,654,471, Oct. 6.

Sanders, Elmore J., San Gabriel, Calif. Radiator temperature control system. 2,654,354, Oct. 6.

Sanderson, Kenneth E.: *See*—
Donoghue, Florence F., Sanderson, and Pigott.

Sandoz A. G., assignee: *See*—
Fleck, Fritz.

Sauerman, Edward E., Miami, Fla. Clamp for holding articles on clotheslines. 2,654,134, Oct. 6.

Saul, Waldo A., Lexington, and J. J. Staller, Waltham, assignors to Raytheon Manufacturing Company, Newton, Mass. Electrical connector. 2,654,872, Oct. 6.

Saunders, Carmen V.: *See*—
Saunders, Harold A. and C. V.

Saunders, Harold A. and C. V., assignors to Midstate Manufacturing Company, Denver, Colo. Portable ditch gate. 2,654,225, Oct. 6.

Savadelis, Ignatius C., Arlington, N. J., assignor to Deering Milliken Research Trust, New York, N. Y. Method and means for predetermining the appearance of fabricated articles. 2,654,288, Oct. 6.

Sawyer, Frederick D., Wayne, assignor to Dearborn Motors Corporation, Birmingham, Mich. Tractor link. 2,654,303, Oct. 6.

Sawyer's Inc., assignee: *See*—
Smith, Gordon N.

Scalise, Dominic T., Richmond, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Beam deflector. 2,654,851, Oct. 6.

Scelsi, Lee J., Buffalo, N. Y. Revolvable ball type liquid applicator. 2,654,108, Oct. 6.

Schaefer, Edward J., Fort Wayne, Ind. Submergible motor construction. 2,654,848, Oct. 6.

Schaefer, Joseph F., Bay Village, assignor to The Interior Steel Equipment Company, Cleveland, Ohio. Latch mechanism for disappearing wardrobe doors. 2,654,241, Oct. 6.

Scharf, Arthur E., Milwaukee, Wis. Humidifier. 2,654,362, Oct. 6.

Scheiterlein, Andreas, assignor to H. List, Graz, Austria. Four-stroke internal-combustion engine. 2,654,355, Oct. 6.

Scher & Feldman, Inc., assignee: *See*—
Feldman, Joseph.

Schering Corporation, assignee: *See*—
Papa, Domenick, Sperber, and Villani.

Schevenell, Leonard O., assignor to Illinois Tool Works, Chicago, Ill. Screw with self-drilling end. 2,654,284, Oct. 6.

Schlueter Co., The, assignee: *See*—
Loesching, Bernard H.

Schmid, Roy J., Camp Cooke, Calif. Severable aircraft. 2,654,320, Oct. 6.

Schmidgall, John R., Los Angeles, Calif. Frame construction. 2,654,451, Oct. 6.

Schmidt, Carl O., Jr., assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Unloader attachment for tripe scalders. 2,654,458, Oct. 6.

Schmidt, Peter, Stuttgart-Vaihingen, Germany. Turning furnace for metallurgical purposes. 2,654,591, Oct. 6.

Schmitter, Walter P., assignor to The Falk Corporation, Milwaukee, Wis. Multiple power takeoff transmission. 2,654,267, Oct. 6.

Schmitz, William R.: *See*—
Londergan, Thomas E., and Schmitz.

Schoenfeld, David M., Scarsdale, assignor to Combustion Engineering, Inc., New York, N. Y. Steam generator support and casing structure of box column construction. 2,654,352, Oct. 6.

Scholz, Caesar R.: *See*—
Huebner, Charles F., and Scholz.

Schroeder, George W., Sandy Hook, Conn., assignor to General Electric Company. Control for electric ovens. 2,654,824, Oct. 6.

Schuessler, Frederick W.: *See*—
Lemmon, Norman E., Schuessler and Bransky.

Schwencke, Edmund H., New York, N. Y., assignor to Elastomer Chemical Corporation, Nutley, N. J. Plasticizers and plastic compositions. 2,654,719, Oct. 6.

Scott, Michael H., Evansville, Ind., assignor to International Harvester Company. Spring hinge. 2,654,118, Oct. 6.

Seal-Spout Corporation, assignee: *See*—
Klausmann, Milton H., and Brucker.

Searle, G. D., & Co., assignee: *See*—
Burtner, Robert R.

Seeger Refrigerator Company, assignee: *See*—
Duncan, Thomas W., and Rosencrans.

Segal, Samuel, New York, N. Y., assignor to Wilson-Jones Company, Chicago, Ill. Staple support slide and feed means for stapling machines. 2,654,087, Oct. 6.

Seidenberg, Oscar, Washington, D. C. Abacus. 2,654,164, Oct. 6.

Seifter, Joseph: *See*—
Bruce, William F., and Seifter.

Selas Corporation of America, assignee: *See*—
Skivesen, Kristian.

Selman, Roland W., Jr., and B. G. Carson, assignors to De-Raef Corporation, Kansas City, Mo. Composition for making bread. 2,654,672, Oct. 6.

Seright, Carl G., Trenton, N. J., assignor to Radio Corporation of America. Image registration in color television systems or the like. 2,654,854, Oct. 6.

Servel, Inc., assignee: *See*—
Shagaloff, Harry C., and Cooper.

Sgriccia, Mario T., assignor to Syntron Company, Homer City, Pa. Feeder bowl. 2,654,465, Oct. 6.

Shagaloff, Harry C., and P. A. Cooper, Evansville, Ind., assignors to Servel, Inc., New York, N. Y. Control for absorption refrigeration systems. 2,654,229, Oct. 6.

Shaw, George E., Toronto, Ontario, assignor to A. V. Roe Canada Limited, Peel County, Ontario, Canada. Temperature control of air supply systems. 2,654,580, Oct. 6.

Shealy, James W., assignee: *See*—
Glaze, Paul E.

Sheen, Robert T., Wyndmoor, Pa., E. B. Saalfrank, Gulfport, Fla., and J. W. Welker, Jenkintown, assignors to Milton Roy Company, Chestnut Hill, Pa. Constant delivery pump. 2,654,326, Oct. 6.

Shell Development Company, assignee: *See*—
Adelson, David E.
Fallgatter, Marvin B., and Hallikainen.
Goppel, Johan M., Rumscheidt, and Hackmann.
Sacra, Charles F.

Shepherd, Judson O'D., Atlanta, Ga. Dictation machine. 2,654,609, Oct. 6.

Shepherd, Judson O'D., Atlanta Ga., assignor to American Telephone and Telegraph Company. Marker for allotting a link and a sender. 2,654,807, Oct. 6.

Shepherd, Ronald W.: *See*—
Meyer, Hans, and Shepherd.

Sherwin-Williams Company, The, assignee: *See*—
Grummitt, Oliver J., Blank and Marsh.
Hunn, James V.
Sprague, Carl F.

Sherwood, Glenn L., Benton Harbor, Mich. Head box construction for Venetian blinds and mounting bracket therefor. 2,654,426, Oct. 6.

Shoemaker, Dwight L., Cincinnati, Ohio. Air conditioning unit for casement windows. 2,654,233, Oct. 6.

Siemens & Halske, Aktiengesellschaft, assignee: *See*—
Heil, Rudolf, and Taudt.
Lohs, Willy, and Sommer.
Rossberg, Ehrhard, and Lockemann.

Silliman, Grant F.: *See*—
Wilson, Frank C., and Silliman.

Simpson, Arthur L., Toledo, Ohio, assignor to The New York Central Railroad Company. Freight car. 2,654,327, Oct. 6.

Simpson, Walter C., Oakland, Calif. Flue damper latch. 2,654,363, Oct. 6.

Singer Manufacturing Company, The, assignee: *See*—
Stanton, Edward W.

Skinner, Bronson C., Dunedin, Fla., assignor to Clinton Foods Inc., New York, N. Y. Subjecting discrete units of solid materials to treatment by gaseous mediums. 2,654,734, Oct. 6.

Skivesen, Kristian, Flourtown, assignor to Selas Corporation of America, Philadelphia, Pa. Roll seal. 2,654,587, Oct. 6.

Skorup, Gordon E.: *See*—
Tourshou, Simeon I., and Skorup.

Slomin, George W.: *See*—
Calderon, Edwin R., and Slomin.

Smiley, William O.: *See*—
Frisbie, Stewart E., Smiley and Frommer.

Smith, Alexander, Incorporated, assignee: *See*—
Pfau, Julius H.

Smith, Arthur F.: *See*—
Cunningham, James M., and Smith.

Smith, Arthur V., assignee: *See*—
Barr, George.

Smith, Earle R., West Orange, assignor to Electrons, Incorporated, Newark, N. J. Electrode assembly for gas tubes. 2,654,850, Oct. 6.

Smith, Gordon N., Portland, assignor, by mesne assignments, to Sawyer's Inc., Progress, Oreg. Photoflash synchronizing mechanism. 2,654,299, Oct. 6.

Smith, Harry D.: *See*—
Allen, Howard G., Gampp, and Smith.

Smith, Robert L., Portsmouth, Va., assignor of one-sixth to A. B. Bowman, San Diego, Calif. Smoking pipe. 2,654,370, Oct. 6.

Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Valve with self-anchoring seal. 2,654,560, Oct. 6.

Smith, Vernon K., Boise, Idaho. Punchboard game device. 2,654,607, Oct. 6.

Smith, William H., East Molesey, England. Rotary fan or the like. 2,654,529, Oct. 6.

Snader, Ira J., assignor to Ex-Cell-O Corporation, Detroit, Mich. Hydraulic transmission for machine tools. 2,654,291, Oct. 6.

Snijders, Antonie: *See*—
Oberman, Roelof M. M., and Snijders.

Societe Anonyme dite: Societe Industrielle de Ferblanterie, assignee: *See*—
Pitavy, Pierre F. M.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Andress, Harry J., Jr., and Nelson.
Kosacik, Alfred P., and Nygaard.
Otto, Ferdinand P., and Reiff.
Press, Frank.

Solomon, Frank: *See*—
Brill, Otto H., and Solomon.

Solomon, Leonard J., Forest Hills, N. Y. Changeable exhibitor. 2,654,172, Oct. 6.

Sommer, Friedrich: *See*—
Lohs, Willy, and Sommer.

Sommerfield, Edmund H.: *See*—
Stoesser, Wesley C., and Sommerfield.

Somogyi, Francis P., London, England. Heat-treatment of materials. 2,654,588, Oct. 6.

Somogyi, Francis P., London, England. Construction and operation of vertical shaft furnaces. 2,654,589, Oct. 6.

Somogyi, Francis P., London, England. Operation of vertical shaft furnaces. 2,654,594, Oct. 6.

Sonoco Products Company, assignee: *See*—
Parsons, Ellis H.

Sorenson, Roy A., Fords, assignor to Nixon Nitration Works, Nixon, N. J. Plastic molding powder and the manufacture thereof. 2,654,716, Oct. 6.

Sorg, Harold E.: *See*—
Eitel, William W., McCullough, and Sorg.

Sorg Paper Company, The, assignee: *See*—
Fridolph, John S.

Southway, Arthur, Twickenham, England, assignor to R. Hoe & Co. Inc., New York, N. Y. Moistening means for planographic printing machines. 2,654,314, Oct. 6.

Sparaco, Albert R., Marlboro, N. Y. Repair and warning lamp for vehicles. 2,654,877, Oct. 6.

Spaulding, Lyman R., Portland, Oreg. Electric pulse generator. 2,654,839, Oct. 6.

Spencer, Herman J., Ingomar, Pa. Stapling machine. 2,654,088, Oct. 6.

Spencer, Willard J., Whitestone, N. Y. Sewing needle holder. 2,654,513, Oct. 6.

Sperber, Nathan: *See*—
Papa, Domenick, Sperber, and Villani.

Sperling, John, Dalmeny, Saskatchewan, Canada. Indicator for working position of agricultural tools. 2,654,339, Oct. 6.

Sperry Corporation, The, assignee: *See*—
Palmer, Winslow.

Sprague, Carl F., Lyndhurst, assignor to The Sherwin-Williams Company, Cleveland, Ohio. Ball for containers. 2,654,625, Oct. 6.

Springer, Abraham J., executor: *See*—
Tannenbaum, Morris L.

Spurlin, Marcus A., San Francisco, Calif. Antifreeze heater. 2,654,826, Oct. 6.

Spurlin, William V., Indiana, assignor to Syntron Company, Homer City, Pa. Elastomer supported vibratory feeder motor. 2,654,466, Oct. 6.

Stadler, Luther B.: *See*—
Long, Nathan A., Carter, Lindley, Stadler, and Fogleman.

Stadstad, George E., Manvel, N. Dak., assignor to International Harvester Company. Finder mechanism for beet toppers. 2,654,205, Oct. 6.

Staller, Jack J.: *See*—
Saul, Waldo A., and Staller.

Standard Duplicating Machines Corporation, assignee: *See*—
Ajam, Mustafa J., and Bergman.

Standard Oil Company, assignee: *See*—
Lemmon, Norman E., Schuessler, and Bransky.

Standard Oil Development Company, assignee: *See*—
Cyphers, Elmer B., and Michaels.
Kirshenbaum, Abraham D., and Rudel.
Young, David W., and Cottle.

Stanton, Edward W., Roselle Park, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine table of the drophead type. 2,654,650, Oct. 6.

Starr, John H., Mayville, Wis., assignor to John Deere Van Brunt Company. Power lift. 2,654,302, Oct. 6.

Stearns, Joseph L., and C. H. Hoffman, Laurel, Md., assignors, by mesne assignments, to American Machine & Foundry Company, New York County, N. Y. Laminated bowling pin. 2,654,606, Oct. 6.

Steiger, Hermann, Geneva, Switzerland. Mechanical motion regulator for clockworks, watch movements, and the like. 2,654,214, Oct. 6.

Steinberg, Adalberto, and A. Cavadini, Milan, Italy. Making footwear hooks. 2,654,333, Oct. 6.

Steinhardt, David W., assignor to The National Cash Register Company, Dayton, Ohio. Colorless printing fluid. 2,654,673, Oct. 6.

Stelling, Per O., and G. L. Flemmert, Stockholm, assignors to Mo Och Domsjo Aktiebolag, Ornskoldsvik, Sweden. Conducting the Grignard reaction to produce organosilicon compounds. 2,654,771, Oct. 6.

Stem, Donald E., San Francisco, Calif. Method and apparatus for automatically separating underweight cans from normal weight cans. 2,654,478, Oct. 6.

Stem, Donald E., San Francisco, Calif. Magnetic floor sweeper. 2,654,480, Oct. 6.

Stewart, Arthur L., Brighton, assignor to The Gleason Works, Rochester, N. Y. Fine adjustment device. 2,654,262, Oct. 6.

Stockdale, Charles H., Springfield, and D. Johnson, Ridley Park, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Flow divider device. 2,654,384, Oct. 6.

Stoesser, Wesley C., Midland, and E. H. Sommerfield, Bay City, assignors to The Dow Chemical Company, Midland, Mich. Making 4-tertiary-butyl-phenyl salicylate. 2,654,774, Oct. 6.

Storer, Richard M., Denver, Colo. Expansible grid for ice trays. 2,654,230, Oct. 6.

Story, Drew, Hobbs, N. Mex. Oil field fishing tool for rock bits. 2,654,627, Oct. 6.

Stoyanoff, Berta, Sunnyside, Utah. Hair curler. 2,654,372, Oct. 6.

Stratman, John E., Holdrege, Nebr. Combination hay sweep and stacker. 2,654,494, Oct. 6.

Suerken, Maxwell C., assignor to Lamac Process Company, Erie, Pa. Shoe cementing press. 2,654,104, Oct. 6.

Sullivan, Frank A., assignor to The Tri-Homo Corporation, Salem, Mass. Dispersion mill. 2,654,541, Oct. 6.

Sulzer Freres, Societe Anonyme, assignee: *See*—
Traupel, Walter.

Sun Oil Company, assignee: *See*—
Hall, Chester L.
La Porte, Walter N.

Superior Coach Corporation, assignee: *See*—
Runkle, George L., and Cox.

Suter, Hans, Dornlingen, E. Habicht, and W. Kündig, assignors to Cilag, Limited, Schaffhausen, Switzerland. Derivatives of N-hydroxymethyl nicotinic acid amide and the production thereof. 2,654,759, Oct. 6.

Sutherland, Lionel M., Morrisville, Pa., assignor to Sutherland Refiner Corporation, Trenton, N. J. Refiner apparatus. 2,654,295, Oct. 6.

Sutherland Paper Company, assignee: *See*—
Burbank, Wendell T., and Colgren.

Sutherland Refiner Corporation, assignee: *See*—
Sutherland, Lionel M.

Sutowski, Walter S., Garfield Heights, Ohio. Bearing assembly with dust shields. 2,654,644, Oct. 6.

Svoboda, Joseph J., Niles, Calif. Boat rack for automobiles. 2,654,515, Oct. 6.

Swanson, Donald E.: *See*—
Bishop, James R. T., and Swanson.

Sway, Henry C., Bridgeport, Conn., assignor to General Electric Company. Dishwashing machine. 2,654,377, Oct. 6.

Swengel, Robert C., York, assignor to Aircraft-Marine Products Inc., Harrisburg, Pa. Insulated electric connector. 2,654,873, Oct. 6.

Syntron Company, assignee: *See*—
Sgriccia, Mario T.
Spurlin, William V.

Taco Heaters, Incorporated, assignee: *See*—
Grosvenor, William M., Jr.

Tannenbaum, Morris L., deceased, Bronx, N. Y.; A. J. Springer and W. H. Wechter, executors, assignors to Clearasite Corporation of America, Inc., New York, N. Y. Combination cap and eyeshield. 2,654,089, Oct. 6.

Tate, Christopher, Malden, assignor to E. H. Tate Company, Boston, Mass. Sales and display package of drapery hooks. 2,654,476, Oct. 6.

Tate, E. H., Company, assignee: *See*—
Tate, Christopher.

Taudt, Heins: *See*—
Heil, Rudolf, and Taudt.

Taussky, Ilona, New York, N. Y. Refining and purifying fats and higher fatty acids. 2,654,766, Oct. 6.

Taylor, William J., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Explosive. 2,654,666, Oct. 6.

Technicon Chromatography Corporation, assignee: *See*—
Gorham, George.

Templar, Robert W., West Sacramento, Calif. Device for freezing and dispensing ice cubes. 2,654,228, Oct. 6.

Te Strake, Lambertus, Deurne, Netherlands. Device for confining the thread balloon with a pay-off bobbin. 2,654,551, Oct. 6.

Texaco Development Corporation, assignee: *See*—
Kiersted, Wynkoop, Jr., and Gross.

Thermal Syndicate Limited, The, assignee: *See*—
Irving, Robert.

Thierfelder, Charles W., Lancaster, Pa., assignor to Radio Corporation of America. Luminescent screen composition. 2,654,675, Oct. 6.

Thompson, Benjamin: *See*—
Bell, Alan, and Thompson.

Thompson, Elmer B., assignor to Globe Hoist Company, Des Moines, Iowa. Method and device for raising vehicles. 2,654,443, Oct. 6.

Thompson, Joseph A., and H. F. Hobbs, assignors to Hobbs Transmission Limited, Leamington Spa, England. Variable-ratio power transmitting apparatus. 2,654,381, Oct. 6.

Thompson Products, Inc., assignee: *See*—
Braid, Murray D.
Noon, T Cyril, and Anderson.

Thompson, Ransom S., Middle Haddam, assignor to United Aircraft Corporation, East Hartford, Conn. Turbine power plant having auxiliary air inlet and thrust augmenter. 2,654,215, Oct. 6.

Thor Power Tool Company, assignee: *See*—
Mitchell, Walter G.

Thorburn, David H., Oak Park, assignor to The Powers Regulator Company, Chicago, Ill. Packless valve. 2,654,394, Oct. 6.

Thyrén, Gösta B., assignee: *See*—
Lundkvist, Reinhold J.

Tifft, Gordon A., Marshalltown, Iowa. Fish skinning tool. 2,654,120, Oct. 6.

Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Furniture post end construction. 2,654,620, Oct. 6.

Tinnerman Products, Inc., assignee: *See*—
Tinnerman, George A.

Tisdale, Leo S., Sr., Meridian, Miss. Variable stroke transmission for cooperating driven shafts. 2,654,259, Oct. 6.

Tissol, Carolyn E.: *See*—
Goodhue, Lyle D., and Tissol.

Todd, Guerin, assignor to Hanson-Van Winkle-Munning Company, Matawan, N. J. Conveyer drive mechanism. 2,654,462, Oct. 6.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. Tetraalkyldiamidophosphoryl phosphoric dichlorides. 2,654,780, Oct. 6.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. Bis(tetraalkyldiamidophosphoryl)alkanephosphonates. 2,654,781, Oct. 6.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. Manufacture of octaalkylpyrophosphoramides. 2,654,782, Oct. 6.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. Manufacture of octaalkylpyrophosphoramides. 2,654,783, Oct. 6.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. Manufacture of phosphoric acid anhydrides. 2,654,784, Oct. 6.

Tomarin, Marcus, Cincinnati, Ohio. Tube bending hand tool with a rocking pressure member. 2,654,279, Oct. 6.

Tomarin, Marcus, Cincinnati, Ohio. Tube expanding tool. 2,654,414, Oct. 6.

Torley, Robert E.: *See*—
Colthup, Norman B., and Torley.

Toulon, Pierre M. G., New York, N. Y., assignor to Products and Licensing Corporation. Ionic tube for controlling electric currents. 2,654,856, Oct. 6.

Tourshou, Simeon I., Philadelphia, Pa., and G. E. Skorup, Oaklyn, N. J., assignors to Radio Corporation of America. Television-to-radio voltage changing system. 2,654,800, Oct. 6.

Tourtellot, John A.: *See*—
Ammlung, Louis C., Jr., and Tourtellot.

Traupel, Walter, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland. Method and device for regulating the output and pressure conditions of the working medium in gas turbine plants. 2,654,216, Oct. 6.

Treanor, Edward D., Pittsfield, Mass., assignor to General Electric Company. Air-cooled transformer. 2,654,583, Oct. 6.

Tredl, James, Berwyn, assignor to Crane Co., Chicago, Ill. Stem and closure member connection. 2,654,561, Oct. 6.

Tri-Homo Corporation, The, assignee: *See*—
Sullivan, Frank A.

Trofimov, Lev A., Willoughby, Ohio. Electric torque-converter transmission. 2,654,849, Oct. 6.

Tuck, James A., New York, N. Y., assignor to C. Lahr, Philadelphia, Pa. Moisture meter. 2,654,864, Oct. 6.

Tung-Sol Lamp Works, Inc., assignee: *See*—
Legendre, Victor J., and Volk.

Turkish, Michael C., Centerline, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio. Magnetic clutch. 2,654,454, Oct. 6.

Turnham, Myrtle M., Minneapolis, Minn. Invalid garment. 2,654,367, Oct. 6.

Tuve, Richard L., Silver Spring, and E. J. Jablonski, Seat Pleasant, Md. Can opener and receptacle. 2,654,507, Oct. 6.

Udylite Corporation, The, assignee: *See*—
Brown, Henry.
Brown, Henry, and High.

Uhlig, Henry C.: *See*—
Bogdanffy, George W., Mitchell, and Uhlig.

Uhlig, Henry C., Clifton, assignor, by mesne assignments, to Howe Twister Corporation, Jersey City, N. J. Apparatus for and method of cabling threads. 2,654,211, Oct. 6.

Union Carbide and Carbon Corporation, assignee: *See*—
Fleming, David H., Jr.

United Aircraft Corporation, assignee: *See*—
Thompson, Ransom S.

United Aircraft Products, Inc., assignee: *See*—
Clark, Warren H.
Ghormley, Edwin I.

United-Carr Fastener Corporation, assignee: *See*—
Becker, Philip D.
Bedford, William A., Jr.
Van Buren, Harold S., Jr.

United Shoe Machinery Corporation, assignee: *See*—
Henshaw, James N.
Roske, Milton H.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Scalise, Dominic T.
Presens, Cecil S.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Wiegand, Clyde E.

U. S. Slicing Machine Company, Inc., assignee: *See*—
Van Duyn, Adrianus.

United States Steel Corporation, assignee: *See*—
Lorig, Edwin T.

U. S. Vitamin Corporation, assignee: *See*—
Funk, Casimir, and Merritt.

Universal Oil Products Company, assignee: *See*—
Berger, Charles V., and Hansen.
Geiser, Edward M.

Upjohn Company, The, assignee: *See*—
Heyl, Frederick W., and Herr.

Urquhart, Norman J., Scenery Hill, Pa., and C. A. Rider, Bridgeport, W. Va., assignors to Combustion Processes Company, Pittsburgh, Pa. Reducing iron oxides. 2,654,669, Oct. 6.

Utter, Joseph L.: *See*—
Harford, Charles G., Kreidl, and Utter.

Valley Mechanical Co., Inc., assignee: *See*—
Edwards, George S.

Van Buren, Harold S., Jr., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Removable button device and installation thereof. 2,654,133, Oct. 6.

Van Buul, Everardus W. C., assignor to N. V. Vereenigde Tabaksindustrieën Mignot & De Block, Eindhoven, Netherlands. Device for piling up preformed binder and/or wrapper leaves for cigars, cigarillos, or bunches thereof. 2,654,369, Oct. 6.

Vandenberg, Albert F., Denver, Colo. Lamp with removable reflector unit. 2,654,828, Oct. 6.

Van Duyn, Adrianus, Hillegersberg, Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, Inc. Control device for the recording mechanism of weighing apparatus. 2,654,596, Oct. 6.

Van Meter, James A., assignor of one-third to W. C. Van Meter, Van Nuys, Calif. Mailbox indicator. 2,654,534, Oct. 6.

Van Meter, William C., assignee: *See*—
Van Meter, James A.

Van Sciver, Joseph G.: *See*—
Benedict, Walter E., and Van Sciver.

Vassel, Bruno, and R. Garst, Toledo, Ohio, assignors to International Minerals & Chemical Corporation. Preparation of guanidino fatty acids. 2,654,779, Oct. 6.

Veatch, Joseph G., Jr., and A. M. Daily, assignors to Chicago Telephone Supply Corporation, Elkhart, Ind. Electrical control device. 2,654,641, Oct. 6.

Verde, Charles D., Union City, N. J. Package and parts thereof for delicate articles. 2,654,468, Oct. 6.

Vicci, Orlando, Tufillo, Italy. Control system for window shutters. 2,654,427, Oct. 6.

Villani, Frank: *See*—
Papa, Domenick, Sperber, and Villani.

Visco Products Company, assignee: *See*—
Kirkpatrick, Willard H.

Visman, Jan, Brunssum, assignor to De Directie van de Staatsmijnen in Limburg, Heerlen, Netherlands. Sampling apparatus. 2,654,249, Oct. 6.

Voda, John J., Evansville, Ind., assignor to International Harvester Company. Milk can hoist with friction brake. 2,654,570, Oct. 6.

Voelker, Edward H., Huntington Station, assignor to Republic Aviation Corporation, Farmingdale, N. Y. Locally reinforced resin article. 2,654,685, Oct. 6.

Vogel, Hilmond O.: *See*—
Millard, Lee P., and Vogel.

Volckening, Lloyd L., executor: *See*—
Salfisberg, Leroy L.

Volk, Jerome V.: *See*—
Legendre, Victor J., and Volk.

Von Seemann, Carl, and G. A. Grant, Montreal, Quebec, assignors to Ayerst, McKenna & Harrison, Limited, St. Laurent, Quebec, Canada. Pyrrolidine analgesic. 2,654,764, Oct. 6.

Wahlberg, Eric C., Stamford, assignor to Electrolux Corporation, Old Greenwich, Conn. Flexible shaft coupling. 2,654,235, Oct. 6.

Wahlmark, Gunnar A., Rockford, Ill. Motor-driven fluid distribution system. 2,654,323, Oct. 6.

Walcher, Alfred, assignor to American Steel Foundries, Chicago, Ill. Cleaning castings. 2,654,682, Oct. 6.

Wallace, Jeffrey J., Amite, La., assignor to Gullett Gin Company. Pneumatic dual moting and lint cleaning air blast gin. 2,654,126, Oct. 6.

Wang, Eugene, Portland, Oreg. Rotary hydraulic coupling. 2,654,223, Oct. 6.

Warner Electric Brake & Clutch Company, assignee: *See*—
Oetzel, John G.

Warner & Swasey Company, The, assignee: *See*—
Darash, Nicholas P.
Gillett, Horace W.

Warren, Walter W. D., Montreal, Quebec, Canada. Riveting process. 2,654,272, Oct. 6.

Wasberg, Axel, assignor to Chicago Railway Equipment Company, Chicago, Ill. Railway house car structure. 2,654,450, Oct. 6.

Weaver, Ruth K., and P. T. Hahn, assignors to Gaylord Products, Incorporated, Chicago, Ill. Hair curling device. 2,654,373, Oct. 6.

Webb, Irving D., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Coupling nonterminal allylic halides. 2,654,787, Oct. 6.
Wechter, William M., executor: *See*—
Tannenbaum, Morris L.
Weibel, Dominique, Nidau-Bienne, assignor to Chim A. G., Basel, Switzerland. Composition for stimulating the growth of plants. 2,654,668, Oct. 6.
Weidel, Joseph C., Bonita, assignor to Rohr Aircraft Corporation, Chula Vista, Calif. Expansible mandrel. 2,654,413, Oct. 6.
Weimer, Paul K., Princeton, N. J., assignor to Radio Corporation of America. Photoelectric apparatus. 2,654,853, Oct. 6.
Weir, G. & J., Limited, assignee: *See*—
Hillier, Harold.
Weiser, Morris, Brooklyn, N. Y. Apparatus for displaying garments. 2,654,512, Oct. 6.
Welch, Stanley B., Milford, Conn., and E. G. Olthuis, Trenton, N. J., assignors to General Electric Company. Automatic washing machine electrical control system. 2,654,239, Oct. 6.
Welker, John W.: *See*—
Sheen, Robert T., Saalfrank, and Welker.
Wendt, Harry C., Lynnfield, Mass., assignor to General Electric Company. Caging device for gyroscopes. 2,654,254, Oct. 6.
Wendt, Karl R., Hightstown, N. J., assignor to Radio Corporation of America. Keyed automatic gain control with keying pulse limiter. 2,654,799, Oct. 6.
Western States Machine Company, The, assignee: *See*—
Hertrich, Joseph.
Westinghouse Electric Corporation, assignee: *See*—
Derr, Willard A.
Stockdale, Charles H., and Johnson.
Weston, Arthur W., Waukegan, assignor to Abbott Laboratories, North Chicago, Ill. Production of 2-chloro-1-phenylpropane. 2,654,791, Oct. 6.
Wheatley, Edward W.: *See*—
Fisher, James W., Wheatley, and May.
Wheeler, Chester C., Altadena, Calif. Torpedo with rolling hull. 2,654,334, Oct. 6.
Whitaker, Archie L., Altadena, Calif. Combined body and leg brace. 2,654,365, Oct. 6.
White, Ray T., Rocky River, assignor to The Hankins Container Company, Cleveland, Ohio. Lamp-bulb merchandising package. 2,654,472, Oct. 6.
Whitehead, Cyril C., Croydon, England, assignor to Bailey Meter Company, Cleveland, Ohio. Resistance thermometer. 2,654,818, Oct. 6.
Whitehead & Kales Company, assignee: *See*—
Pressler, Philip J.
Whitin Machine Works, assignee: *See*—
Clentimack, George E.
Kelliher, Francis B.
Wickman, A. C., Limited, assignee: *See*—
Adcock, Horace R.
Wideröe, Rolf, Zurich, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Impulse circuit. 2,654,838, Oct. 6.
Wiegand, Clyde E., Oakland, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Pulse generator. 2,654,840, Oct. 6.
Wiegand, Edwin L., Company, assignee: *See*—
Cunningham, Harry C.
Wildhaber, Ernest, Brighton, assignor to Gleason Works, Rochester, N. Y. Positive clutch with helicoidal tooth surfaces of varying lead. 2,654,456, Oct. 6.
Williams, Leo C., assignor to Dexter Folder Company, Pearl River, N. Y. Pile elevator. 2,654,601, Oct. 6.
Williams, Leo C., Pearl River, and N. H. Runge, Orangeburg, assignors to Dexter Folder Company, Pearl River, N. Y. Pile elevator. 2,654,603, Oct. 6.
Willing, Joseph E., Rochester, and G. O. Ferm, Gates, assignors to General Railway Signal Company, Rochester, N. Y. Railway signaling system. 2,654,831, Oct. 6.
Wilmotte, Raymond M., assignor to Padevco, Inc., Washington, D. C. FM system. 2,654,806, Oct. 6.
Wilmotte, Raymond M., assignor to Padevco, Inc., Washington, D. C. Multiplex frequency modulation communication system. 2,654,885, Oct. 6.
Wilson, Frank C., and G. F. Silliman, Arcade, N. Y., assignors to The Manufacturers and Traders Trust Company, J. A. Ahern and D. D. Nash, Buffalo, N. Y., as executors of the estate of K. R. Wilson. Adapter features of motor stands. 2,654,147, Oct. 6.
Wilson, H. A., Company, The, assignee: *See*—
Mooradian, Victor G.
Wilson-Jones Company, assignee: *See*—
Segal, Samuel.
Wilson, Kirke R., assignee: *See*—
Wilson, Frank C., and Silliman.
Wilson, Raymond W., Ferndale, assignor to Dearborn Motors Corporation, Birmingham, Mich. Hitch for heavy implements. 2,654,304, Oct. 6.
Wilson, Walter G., Martyr Worthy, near Winchester, England. Change-speed gearing. 2,654,269, Oct. 6.
Win, Bernhard, Forest Hills, and E. Lipiner, Brooklyn, N. Y. Foldable hanger. 2,654,484, Oct. 6.
Winkler, Alvin L., assignor to Acme Steel Company, Chicago, Ill. Coil holder. 2,654,550, Oct. 6.
Wintermute, Harry A., Plainfield, N. J., assignor to Research Corporation, New York, N. Y. Electrical precipitator. 2,654,438, Oct. 6.
Wister, Harry H. and J. W., and C. B. Davis, Wilmington, Calif. Faucet bibb repair handle. 2,654,621, Oct. 6.
Wister, John W.: *See*—
Wister, Harry H. and J. W., and Davis.
Witzky, Julius E., Royal Oak, assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 2,654,357, Oct. 6.
Wolf, Calvin N.: *See*—
Ligett, Waldo B., Closson, and Wolf.
Woodberry, Norman T.: *See*—
Dixon, James K., and Woodberry.
Woodley, Fred E.: *See*—
Brubaker, Damon P., and Woodley.
Woods, Ernest C., Omaha, Nebr. Muffler with a hemispherical outer wall having a plurality of apertures of various sizes and shapes. 2,654,437, Oct. 6.
Worsham, James A., Maplewood, Mo. Furnace for burning solid fuels such as bituminous coal and derivatives thereof. 2,654,330, Oct. 6.
Wotring, Gaylord H., Fairfield, Conn., assignor to General Electric Company. Undercounter washing machine. 2,654,386, Oct. 6.
Wright, Fred D., assignor to Fred D. Wright Co., Inc., Nashville, Tenn. Oil can display rack and cabinet. 2,654,508, Oct. 6.
Wright, Fred D., Co., Inc., assignee: *See*—
Wright, Fred D.
Wurzburg, Otto B.: *See*—
Caldwell, Carlyle G., and Wurzburg.
Yakopatz, Michael A., assignor, by mesne assignments, to C. L. Mathis, Seattle, Wash. Wire-rope greaser. 2,654,442, Oct. 6.
Yardney International Corp., assignee: *See*—
Brill, Otto H., and Solomon.
Yellott, John I., Cockeysville, Md., assignor to Bituminous Coal Research, Inc., Washington, D. C. Ash handling system for high-pressure combustion of pulverized solid fuels. 2,654,218, Oct. 6.
Young, David W., Roselle, and D. L. Cottle, Highland Park, N. J., assignors to Standard Oil Development Company. Stabilized solid organic compositions containing acyl-p-aminophenols. 2,654,722, Oct. 6.
Young, James F., Bridgeport, Conn., assignor to General Electric Company. Operating mechanism for domestic ironing machines and the like. 2,654,166, Oct. 6.
Young, James F., Erie, Pa., assignor to General Electric Company. Drive unit for domestic ironing machines and the like. 2,654,222, Oct. 6.
Youngren, Harold T., Birmingham, Mich., and S. V. Hettinger, Jr., Westchester, assignors to Borg-Warner Corporation, Chicago, Ill. Double countershaft transmission. 2,654,261, Oct. 6.
Ytterberg, Carl F., Yonkers, assignor to Kalman Floor Company, Incorporated, New York, N. Y. Concrete surfacing machine. 2,654,298, Oct. 6.
Zaba, Tadeusz, Wettingen, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Metal combustion chamber. 2,654,219, Oct. 6.
Zaccard, Raymond T., Chicago, Ill. Canning apparatus with can top gripping jaws. 2,654,521, Oct. 6.
Zaleski, John F., Valhalla, N. Y., assignor to General Precision Laboratory Incorporated. Microwave rotatable joint. 2,654,868, Oct. 6.
Zarky, Bert, assignor to Motorola, Inc., Chicago, Ill. Transmit-receive switch. 2,654,834, Oct. 6.
Zaugg, Samuel, Solothurn, assignor to La Societe des Accumulateurs Elbric, S. A., Lausanne, Switzerland. Sealed storage cell and battery and manufacturing the same. 2,654,794, Oct. 6.
Zerbe, Richard O., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Tri-esters of hydroxy alkyl thio succinic acids. 2,654,773, Oct. 6.
Ziskal, Joseph F., Brookfield, Ill., assignor to International Harvester Company. Hydraulic control circuit and valve for hydraulic rams. 2,654,349, Oct. 6.
Zummach, Karl G., assignor to Briggs Manufacturing Co., Detroit, Mich. Automobile body front end structure. 2,654,634, Oct. 6.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 6TH DAY OF OCTOBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Electrical connector. D. C. Gillespie. Re. 23,720, Oct. 6.
Signal system for motorcars, Automatic. R. S. Coombs. Re. 23,719, Oct. 6.

LIST OF PLANT INVENTIONS

Rose plant. W. Kordes. 1,219, Oct. 6.

LIST OF DESIGN INVENTIONS

Bank, Piggy. A. N. Brooks. 170,521, Oct. 6.
Base for a portable microphone or the like. M. M. Palo. 170,545, Oct. 6.
Blotter and ash tray, Combined. H. A. Swan. 170,558, Oct. 6.
Blotter and stamp box, Combined. H. A. Swan. 170,557, Oct. 6.
Boot. O. G. Murty. 170,543, Oct. 6.
Cabinet. F. J. Sterling. 170,556, Oct. 6.
Cakeholder and cover therefor or similar article, Combined. E. S. Tupper. 170,561, Oct. 6.
Canister and cover, Combined. E. S. Tupper. 170,562, Oct. 6.
Clasp and hook, Combined. G. S. Nalle, Jr. 170,544, Oct. 6.
Cleaning tissue and lamp housing, Combined. H. D. Brown. 170,522, Oct. 6.
Cuff link or similar article. P. Colmar. 170,525, Oct. 6.
Ear ornament and hair ornament, Combined. S. F. Behr. 170,518, Oct. 6.
Earring. J. H. and M. E. Rude. 170,549, Oct. 6.
Educational device. S. Zipkin. 170,563, Oct. 6.
Floor covering or similar article, Hard surface. G. W. Johnson. 170,535, Oct. 6.
Game board. A. J. Hennig and W. L. Waechter. 170,531, Oct. 6.
Game board. R. F. Miles. 170,541, Oct. 6.
Handbag. J. J. Hommer. 170,532, Oct. 6.
Hinge. E. Hämmerli. 170,529, Oct. 6.
Holder for fire extinguisher grenade. C. C. Irwin. 170,533, Oct. 6.
Knife sharpener. A. E. and I. W. Johnson. 170,534, Oct. 6.
Lamp base. E. Silvestri. 170,553, Oct. 6.
Lavatory. J. M. Hendrickson. 170,530, Oct. 6.
Lighter or similar article, Cigar. F. Kaupmann. 170,536, Oct. 6.
Milling machine. C. Tree. 170,560, Oct. 6.
Opener, Combined can and bottle. J. H. Lanning. 170,537, Oct. 6.
Pen, Ball-point. C. K. Lovejoy. 170,539, Oct. 6.
Personal protective shield, Self-adjusting. J. L. Paul. 170,546, Oct. 6.
Phonograph, Child's. B. Cohen. 170,524, Oct. 6.
Pincushion. A. T. Moeglich. 170,542, Oct. 6.
Place mat or similar article. K. C. Hamilton. 170,528, Oct. 6.
Plate. P. Schneeloch. 170,551, Oct. 6.
Polishing machine. J. L. Thompson. 170,559, Oct. 6.
Radio receiver casing. L. Boji and P. J. Oslac. 170,520, Oct. 6.
Ring for holding perfume, Finger. C. M. Del Mas. 170,526, Oct. 6.
Ring, Harmonica. C. M. Del Mas. 170,527, Oct. 6.
Sanding machine. W. L. Petersen. 170,547, Oct. 6.
Separator, Cream. L. G. McIntosh. 170,540, Oct. 6.
Sharpener or the like, Crayon. J. G. Squarcio. 170,554, Oct. 6.
Shoe, Child's. R. Sherman. 170,552, Oct. 6.
Shoehorn. G. Beroset. 170,519, Oct. 6.
Stand, Collapsible tube. J. Bateman. 170,517, Oct. 6.
Stocking, Lady's. M. A. Rickert. 170,548, Oct. 6.
Table. O. L. Saenz. 170,550, Oct. 6.
Table or similar article. R. Brown. 170,523, Oct. 6.
Toy vehicle. M. Barry. 170,516, Oct. 6.
Urinal holder and deodorant cap, Combined. B. D. Love. 170,538, Oct. 6.
Wire spacing device. J. C. Steadman. 170,555, Oct. 6.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 6TH DAY OF OCTOBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abacus. O. Seidenberg. 2,654,164, Oct. 6.
Abrading machine, Portable power-operated. W. G. Mitchell. 2,654,190, Oct. 6.
Adapter features of motor stands. F. C. Wilson and G. F. Silliman. 2,654,147, Oct. 6.
Adjusting means for slidable side jaw wrenches. M. W. Emmett. 2,654,282, Oct. 6.
Aggregate, Making lightweight. H. A. Buron. 2,654,137, Oct. 6.
Aggregate, Making lightweight. C. G. Harford, E. L. Kreidl, and J. L. Utter. 2,654,136, Oct. 6.
Agricultural implement and tine construction therefor. E. W. Peterson. 2,654,197, Oct. 6.
Air conditioning apparatus. J. A. Galazzi. 2,654,232, Oct. 6.
Air conditioning unit for casement windows. D. L. Shoemaker. 2,654,233, Oct. 6.
Air-cooled brake. A. A. Benson. 2,654,448, Oct. 6.
Aircraft, Severable. R. J. Schmid. 2,654,320, Oct. 6.
Air distribution system. R. C. Robertson. 2,654,305, Oct. 6.
Air vent, Automatic hygroscopic type. W. M. Grosvenor, Jr. 2,654,385, Oct. 6.
Alarm, Tire. R. C. Fidler. 2,654,337, Oct. 6.
Alcoholysis. J. V. Hunn. 2,654,767, Oct. 6.
Alkyl titanates, Preparation of. D. F. Herman. 2,654,770, Oct. 6.
Alloy: *See*—
  Gold base alloy.
Alloy steel. O. W. McMullan. 2,654,683, Oct. 6.
Animalization of cellulose. J. K. Dixon and N. T. Woodberry. 2,654,715, Oct. 6.
Anodizing rack. D. E. Saffel. 2,654,707, Oct. 6.
Antenna accessory. J. Finkel. 2,654,857, Oct. 6.
Antenna, Radio frequency. H. F. Engelmann. 2,654,842, Oct. 6.
Antifreeze heater. M. A. Spurlin. 2,654,826, Oct. 6.
Antipuckering means for sofa bed upholstery. P. W. Ake and J. T. Lester. 2,654,099, Oct. 6.
Antistatic treatment of shaped articles comprising a vinyl resin and treated articles. A. Cresswell. 2,654,678, Oct. 6.
Apparatus for cabling threads. G. W. Bogdanffy, C. O. Mitchell, and H. C. Uhlig. 2,654,210, Oct. 6.
Apparatus for centrifugal separation. D. H. Davis. 2,654,535, Oct. 6.
Apparatus for controlling the flow of gases. W. B. Innes. 2,654,387, Oct. 6.
Apparatus for directing air to combustion products turbines. G. K. W. Boestad and E. O. Eriksson. 2,654,220, Oct. 6.
Apparatus for displaying garments. M. Weiser. 2,654,512, Oct. 6.
Apparatus for drying excavations. J. T. Culleton. 2,654,434, Oct. 6.
Apparatus for filling and compacting material in bags and having a retractable bag bottom abutment member. H. V. Kindseth. 2,654,518, Oct. 6.
Apparatus for grinding noncylindrical surfaces. E. R. Dunn and D. F. Price. 2,654,189, Oct. 6.
Apparatus for measuring suspended pipe sections upon derricks. M. L. Barnhart. 2,654,155, Oct. 6.
Apparatus for metals distillation. R. Doucot. 2,654,700, Oct. 6.
Apparatus for molding hamburger steak patties and the like. H. J. Nelson. 2,654,121, Oct. 6.
Apparatus for nitration of organic compounds. W. H. Marshall, Jr. 2,654,658, Oct. 6.
Apparatus for placing splines. F. C. Russell and C. W. Porter. 2,654,402, Oct. 6.
Apparatus for preparing foam-like substances such as whipped cream. L. B. Heesen. 2,654,585, Oct. 6.
Apparatus for producing photomontages. D. J. Flynn. 2,654,289, Oct. 6.
Apparatus for static pulse rejection. M. M. Newman. 2,654,835, Oct. 6.
Apparatus for synchronizing receivers in facsimile printing systems. R. Hell and H. Taudt. 2,654,802, Oct. 6.
Apparatus for the integration and control of radiation, particularly for the control of exposure in photographic processes. A. M. Feller. 2,654,858, Oct. 6.
Apparatus for treatment of polyamide fabrics. N. A. Long, L. T. Carter, H. W. Lindley, L. B. Stadler, and W. L. Fogleman. 2,654,162, Oct. 6.
Apparatus for use in measuring surface tension. N. B. Colthup and R. E. Torley. 2,654,243, Oct. 6.
Apparatus for vacuum filling of containers. S. J. Busby. 2,654,523, Oct. 6.
Articulated connection for shaker conveyers. E. R. Bergmann. 2,654,467, Oct. 6.
Artificial window. R. L. Pierce. 2,654,827, Oct. 6.
Ash handling system for high-pressure combustion of pulverized solid fuels. J. I. Yellott. 2,654,218, Oct. 6.
Assembling Venetian blinds. H. Nelson. 2,654,141, Oct. 6.
Automatic control for wave form. B. E. Denton. 2,654,855, Oct. 6.
Automatic vacuum cleaner. L. P. Borkoski. 2,654,439, Oct. 6.
Automatically separating underweight cans from normal weight cans, Method and apparatus for. D. E. Stem. 2,654,478, Oct. 6.
Automobile body front end structure. K. G. Zummach. 2,654,634, Oct. 6.
Automobile tray and passenger safety guard, Combined. R. Mockli. 2,654,616, Oct. 6.
Awning, canopy, etc. A. O. Liberatore. 2,654,424, Oct. 6.
Awning or shutter, Metal. D. E. E. Hayner. 2,654,425, Oct. 6.
Backflow preventer. T. A. Glass. 2,654,388, Oct. 6.
Bag: *See*—
  Compartment bag.
Bag seal. G. G. and G. G. Canter. 2,654,624, Oct. 6.
Bail for containers. C. F. Sprague. 2,654,625, Oct. 6.
Baler press mechanism for forming vented bales. L. P. Millard and H. O. Vogel. 2,654,308, Oct. 6.
Band-applying machine. H. G. Allen, G. E. Gampp, and H. D. Smith. 2,654,520, Oct. 6.
Base for chairs, Wheeled. R. G. Neff. 2,654,421, Oct. 6.
Beam deflector. D. T. Scalise. 2,654,851, Oct. 6.
Bearing: *See*—
  Universal bearing.
Bearing. M. Morgan and J. M. O'Malley. 2,654,642, Oct. 6.
Bearing assembly with dust shields. W. S. Sutowski. 2,654,644, Oct. 6.
Bedrail, Display. R. W. Norris. 2,654,101, Oct. 6.
Bellows mechanism for pneumatic transfer pads for labeling machines. S. T. Carter. 2,654,497, Oct. 6.
Benzyl alcohol extraction of antipernicious anemia concentrate. F. R. Koniuszy, N. G. Brink, and K. Folkers. 2,654,690, Oct. 6.
Beta-4-morpholinoethyl-benzoate salt of penicillin. H. W. Rhodehamel, Jr. 2,654,752, Oct. 6.
β-(2-methylpiperidino) ethylmethylphenylamine salt of penicillin. H. W. Rhodehamel, Jr. 2,654,744, Oct. 6.
Bezel for indicating instruments. G. E. Ford. 2,654,253, Oct. 6.
Billfold. H. S. Cox. 2,654,409, Oct. 6.
Bis (tetraalkyldiamidophosphoryl) alkanephosphonates. H. Tolkmith. 2,654,781, Oct. 6.
Bit: *See*—
  Detachable rock drill bit. Tandem expansible rotary drill bit.
  Drill bit.
  Expansible rotary drill bit.
Blade sharpener and making the same. L. J. Raab. 2,654,194, Oct. 6.
Block: *See*—
  Sheet metal pillow block. Universal sheave block.
Blowpipe employing adjuvant powder for thermochemically removing material. D. H. Fleming, Jr. 2,654,329, Oct. 6.
Boat propelling and steering mechanism. F. S. Ball. 2,654,335, Oct. 6.
Boat structure. B. Frees, Jr. and I. O. Fiolo. 2,654,102, Oct. 6.
Bolt with clip retaining means. W. A. Bedford, Jr. 2,654,411, Oct. 6.
Bore gauge. A. Eisele. 2,654,157, Oct. 6.
Borehole loader. R. McGirr. 2,654,285, Oct. 6.
Bottle crown cap assembling machine gluing attachment. B. Nagy. 2,654,341, Oct. 6.
Bow sight. J. A. La Vire. 2,654,152, Oct. 6.
Bowling alley bumper with hanger means. A. B. Hackert. 2,654,605, Oct. 6.
Box: *See*—
  Circular wood box. Locked paper box.
  Dispensing box.
Box for carrying dogs, Collapsible. A. N. Jennison 2,654,498, Oct. 6.
Brace, Combined body and leg. A. L. Whitaker. 2,654,365, Oct. 6.
Brake: *See*—
  Air-cooled brake.

Brake adjuster. B. E. House. 2,654,446, Oct. 6.
Breaking petroleum emulsions and compositions therefor. W. H. Kirkpatrick. 2,654,714, Oct. 6.
Broach, Rotary. R. E. Coles. 2,654,293, Oct. 6.
Bullet forming die. E. Gibbs. 2,654,140, Oct. 6.
Burner and fire control device, Oil. J. G. and W. H. Gilmore. 2,654,423, Oct. 6.
Burr remover. W. S. Pearson. 2,654,292, Oct. 6.
Button device and installation thereof, Removable. H. S. van Buren, Jr. 2,654,133, Oct. 6.
Cable reeling mechanism. C. F. Ball and R. T. Hair. 2,654,547, Oct. 6.
Cable reeling mechanism. R. J. Hopkins. 2,654,548, Oct. 6.
Caging device for gyroscopes. H. C. Wendt. 2,654,254, Oct. 6.
Calculator, Steel square. D. C. Luts. 2,654,158, Oct. 6.
Calf puller. W. L. Matteson, Jr. 2,654,368, Oct. 6.
Can package with handle. J. R. Carpenter. 2,654,475, Oct. 6.
Can submerging device for milk coolers. W. H. Harstick. 2,654,500, Oct. 6.
Canning apparatus with can top gripping jaws. R. T. Zaccard. 2,654,521, Oct. 6.
Cap and eyeshield, Combination. M. L. Tannenbaum. 2,654,089, Oct. 6.
Capped corner and metal top anchorage for furniture. L. W. Pasewalk and J. F. Reimer. 2,654,649, Oct. 6.
Car: *See*—
  Freight car.
Car shaker, Railway. P. E. Glaze. 2,654,490, Oct. 6.
Car structure, Railway house. A. Wasberg. 2,654,450, Oct. 6.
Card punching machine. C. R. Doty. 2,654,432, Oct. 6.
Carton, Display. E. J. Borucki. 2,654,470, Oct. 6.
Carton, Shipping and display. C. G. Fulmer and D. Int-Hout. 2,654,469, Oct. 6.
Cartridge, Sectional. J. W. Roske. 2,654,319, Oct. 6.
Case: *See*—
  Spectacle case.
Caster. P. D. Becker. 2,654,113, Oct. 6.
Caster having a swivel lock. E. W. Milhiser. 2,654,112, Oct. 6.
Cathode-ray translating system for permutation codes. W. T. Rea. 2,654,878, Oct. 6.
Cell for electrical measurement of liquid dielectrics. C. C. Petersen. 2,654,862, Oct. 6.
Center core seal for filter elements. K. Ahlijian. 2,654,483, Oct. 6.
Chair: *See*—
  Foldable reclining chair. Folding chair.
Change-speed gearing. W. G. Wilson. 2,654,269, Oct. 6.
Cheese making apparatus. R. Miollis. 2,654,151, Oct. 6.
Chemical gun trap. H. R. Graybill. 2,654,178, Oct. 6.
Chicken wing marker. H. W. Dryden. 2,654,169, Oct. 6.
Chlorine dioxide, Production of. C. H. Evans. 2,654,656, Oct. 6.
Chlorofluoro derivatives of cyclohexane and making same, New. W. B. Ligett. 2,654,789, Oct. 6.
Circuit: *See*—
  Converter circuit. Impulse circuit.
Circuit and valve for hydraulic rams, Hydraulic control. J. F. Ziskal. 2,654,349, Oct. 6.
Circuit interrupter, Electric. M. Laverty. 2,654,815, Oct. 6.
Circuits, Electrical wave band pass. E. C. Cork. 2,654,867, Oct. 6.
Circuits, Highly selective and stable wide range frequency converting. H. A. Robinson. 2,654,832, Oct. 6.
Circular wood box. P. L. Blum. 2,654,499, Oct. 6.
Clamp: *See*—
  Horizontal plate lifting clamp. Plate lifting clamp.
  Open locking plate lifting clamp.
Clamp attachment for pliers. A. Hudnall. 2,654,280, Oct. 6.
Clamp for holding articles on clothesline. E. E. Sauerman. 2,654,134, Oct. 6.
Classification of phosphate ore. I. M. Le Baron. 2,654,477, Oct. 6.
Cleaner: *See*—
  Automatic vacuum cleaner. Pot cleaner.
Cleaning castings. A. Walcher. 2,654,682, Oct. 6.
Clip: *See*—
  Sectional wall clip.
Clothes drier and control therefor, Variable time automatic. E. J. Peterson. 2,654,160, Oct. 6.
Clutch: *See*—
  Engageable and releasable axle clutch. Magnetic clutch.
Clutch and throttle control for balers. L. H. and H. W. Pringnitz. 2,654,263, Oct. 6.
Clutch with helicoidal tooth surfaces of varying lead, Positive. E. Wildhaber. 2,654,456, Oct. 6.
Coagulation and washing of normally crystalline vinylidene chloride polymer emulsions. H. W. Moll. 2,654,730, Oct. 6.
Coat combined with muff. J. Fedman. 2,654,094, Oct. 6.
Coating with a coal extract and baking. I. G. C. Dryden. 2,654,676, Oct. 6.
Codeinone, dihydrocodeinone, and dihydromorphinone, Preparing. A. H. Homeyer and G. B. De La Mater. 2,654,756, Oct. 6.
Coffee brewing apparatus, Home. S. H. Sacker. 2,654,306, Oct. 6.
Coil holder. A. L. Winkler. 2,654,550, Oct. 6.
Coin holder. Å. A. Hultberg. 2,654,376, Oct. 6.
Combination water and space combustion heater. B. H. Losching. 2,654,361, Oct. 6.
Combine having side hill platform adjustments. M. Long. 2,654,207, Oct. 6.
Combustion chamber. S. L. Fitzpatrick. 2,654,350, Oct. 6.
Combustion chamber, Metal. T. Zaba. 2,654,219, Oct. 6.
Compartment bag. E. W. Geckler and J. F. Near. 2,654,527, Oct. 6.
Composite sheet material and producing the same. J. S. Fridolph. 2,654,687, Oct. 6.
Composition for making bread. R. W. Selman, Jr., and B. G. Carson. 2,654,672, Oct. 6.
Composition for stimulating the growth of plants. D. Weibel. 2,654,668, Oct. 6.
Compounded hydrocarbon oils and addition agents therefor. E. Mitchell. 2,654,708, Oct. 6.
Compounded hydrocarbon oils and addition agents therefor. E. Mitchell and W. B. Morse. 2,654,709, Oct. 6.
Compressor, Air. E. W. Patterson. 2,654,531, Oct. 6.
Compressor, Rotary. T. W. Nichols. 2,654,532, Oct. 6.
Concentrates of uranium and vanadium from low-bearing ores, Producing. R. D. Nye and D. J. Demorest. 2,654,653, Oct. 6.
Concrete surfacing machine. C. F. Ytterberg. 2,654,298, Oct. 6.
Conducting the Grignard reaction to produce organosilicon compounds. P. O. Stelling and G. L. Flemmert. 2,654,771, Oct. 6.
Connector: *See*—
  Electrical connector.
  Insulated electric connector.
Consistency measuring apparatus responsive to motor current. W. R. Lewis. 2,654,860, Oct. 6.
Constant delivery pump. R. T. Sheen, R. B. Saalfrank, and J. W. Welker. 2,654,326, Oct. 6.
Construction and operation of vertical shaft furnaces. F. P. Somogyl. 2,654,589, Oct. 6.
Control device for the recording mechanism of weighing apparatus. A. van Duyn. 2,654,596, Oct. 6.
Construction of rotors for compressors and like machines. G. B. R. Feilden. 2,654,565, Oct. 6.
Control for absorption refrigeration systems. H. C. Shagaloff and P. A. Cooper. 2,654,229, Oct. 6.
Control for electric ovens. G. W. Schroeder. 2,654,824, Oct. 6.
Control system for window shutters. O. Vicci. 2,654,427, Oct. 6.
Controlling the operation of doors or the like, Means for. W. S. Pattison and E. B. Hawthorne. 2,654,117, Oct. 6.
Converter circuit. F. X. Beck and H. T. Bent, Jr. 2,654,836, Oct. 6.
Conveyor chain link. J. I. Carlson. 2,654,464, Oct. 6.
Conveyor drive mechanism. G. Todd. 2,654,462, Oct. 6.
Cooking apparatus. J. Nisenson. 2,654,307, Oct. 6.
Cookstove with combined top pilot and simmer burner, Gas. H. M. Reeves. 2,654,359, Oct. 6.
Cooling and heating system, Room. G. Muffly. 2,654,227, Oct. 6.
Copolymers of vinylidene cyanide with alkyl vinyl ketones. H. Gilbert and F. F. Miller. 2,654,724, Oct. 6.
Copolymers of vinylidene cyanide with difluorodichloroethylenes. H. Gilbert and F. F. Miller. 2,654,728, Oct. 6.
Cosmetic applicator. E. M. Ready. 2,654,111, Oct. 6.
Cotton spindle moistening apparatus. D. D. Grosvenor. 2,654,204, Oct. 6.
Cotton stripping machine. B. M. Hyman. 2,654,201, Oct. 6.
Coupling: *See*—
  Flexible shaft coupling. Rotary hydraulic coupling.
Counter top for kitchen cabinet installation, Severable. L. L. Burke. 2,654,648, Oct. 6.
Coupling. N. A. Christensen. 2,654,234, Oct. 6.
Coupling nonterminal allylic halides. I. D. Webb. 2,654,787, Oct. 6.
Cover: *See*—
  Wheel cover.
Cover for bake pans. J. Kollman. 2,654,502, Oct. 6.
Cravat. J. A. Goguen. 2,654,095, Oct. 6.
Curing polymers of monoethylenic ethers and etheresters. C. E. Rehberg and C. H. Fisher. 2,654,717, Oct. 6.
Curtain supporting device. R. J. Lundkvist. 2,654,486, Oct. 6.
Curved side plate hydraulic press. J. A. Muller. 2,654,310, Oct. 6.
Cutter: *See*—
  Power-driven stalk cutter.
Cutting machine, Rotary. P. G. Csigi. 2,654,430, Oct. 6.
Cutting mechanism for harvesters, Helical. S. F. Pasturczak. 2,654,208, Oct. 6.
DDT, Manufacture of. L. P. Curtin. 2,654,790, Oct. 6.
Dead-end strain carrier. D. C. Hubbard. 2,654,796, Oct. 6.
Defrosting evaporator, Automatic. T. W. Duncan and A. C. Rosencrans. 2,654,226, Oct. 6.

Delta-piperidinobutyl diphenylacetate salt of penicillin. H. W. Rhodehamel, Jr. 2,654,743, Oct. 6.
Derivatives of cycloalkylbenzoylaralkanoic acids. R. R. Burtner. 2,654,778, Oct. 6.
Derivatives of ethyleneimine, preparing. H. Bestian. 2,654,737, Oct. 6.
Derivatives of N-hydroxymethyl nicotinic acid amide and the production thereof. H. Suter, E. Habicht, and W. Kündig. 2,654,759, Oct. 6.
Derivatives of 9-polyhydroxyalkyl-isoalloxazines and products obtained, Production of. C. Funk and A. J. Merritt. 2,654,735, Oct. 6.
Detachable rock drill bit. G. Annesley. 2,654,573, Oct. 6.
Device for confining the thread balloon with a pay-off bobbin. L. te Strake. 2,654,551, Oct. 6.
Device for estimating the board foot contents of standing trees. E. C. Oyler. 2,654,153, Oct. 6.
Device for freezing and dispensing ice cubes. R. W. Templar. 2,654,228, Oct. 6.
Device for piling up preformed binder and/or wrapper leaves for cigars, cigarillos, or bunches thereof. E. W. C. van Buul. 2,654,369, Oct. 6.
Device for preserving paintbrushes. H. B. Hyams. 2,654,504, Oct. 6.
Device for use in tearing sheet material. H. W. Pusheck. 2,654,544, Oct. 6.
Dewaxing mineral oil. C. F. Sacra. 2,654,693, Oct. 6.
Dialkyl glycolurils, Preparation of. H. B. Adkins. 2,654,763, Oct. 6.
Diaphragm closure for paste shoe polish container equipped with a dauber. H. L. Auten. 2,654,110, Oct. 6.
Diaphragm spring reciprocating tool. I. C. McKechnie. 2,654,256, Oct. 6.
Diaphragm valve. G. E. Franck. 2,654,559, Oct. 6.
Diatomaceous earth and Portland cement compositions. C. A. Frankenhoff. 2,654,674, Oct. 6.
Dictation machine. J. O. Shepherd. 2,654,609, Oct. 6.
Die: *See*—
Bullet forming die. Multiple notching die.
Digging machine for mining coal. C. E. Berry. 2,654,586, Oct. 6.
Dip stick wiper. G. D. Barnes. 2,654,109, Oct. 6.
Direct lighting equipment. R. M. Runge and J. A. Pascucci. 2,654,830, Oct. 6.
Discharging solids and gases from a fluidized bed. C. E. Lesher. 2,654,899, Oct. 6.
Dishwashing machine. H. C. Sway. 2,654,377, Oct. 6.
Disk harrow. K. P. Ryan. 2,654,198, Oct. 6.
Dispenser: *See*—
Tape measuring dispenser.
Dispensing box. C. S. Adorney, L. D. Gill, and J. G. McIlvain, Jr. 2,654,525, Oct. 6.
Dispersion mill. F. A. Sullivan. 2,654,541, Oct. 6.
Display device for tires, Advertising. P. E. Heal. 2,654,168, Oct. 6.
Distribution for inlet gas. A. H. Friedman. 2,654,659, Oct. 6.
Doffer assembly, Cotton picker. L. P. Millard. 2,654,202, Oct. 6.
Doffer for mechanical cotton pickers, Bonded. H. F. Parkerton. 2,654,203, Oct. 6.
Double countershaft transmission. H. T. Youngren and S. V. Hettinger, Jr. 2,654,261, Oct. 6.
Dowel, Expansion. F. L. Nettleton. 2,654,297, Oct. 6.
Draft control mechanism. T. W. Bohmker. 2,654,301, Oct. 6.
Drain fitting for wash sinks and the like. M. B. Epstein. 2,654,097, Oct. 6.
Dredge trommel. E. Olson. 2,654,481, Oct. 6.
Drier: *See*—
Grain drier.
Drill: *See*—
Earth formation disintegrating drill.
Drill bit. W. G. Green. 2,654,577, Oct. 6.
Drilling apparatus. A. Arutunoff. 2,654,572, Oct. 6.
Drilling mechanism, Automatic. H. R. Adcock. 2,654,270, Oct. 6.
Drive unit for domestic ironing machines and the like. J. F. Young. 2,654,222, Oct. 6.
Dyeing of acrylonitrile polymers with acetate dyes. L. G. Ray, Jr. 2,654,652, Oct. 6.
Earth formation disintegrating drill. W. L. Pearce. 2,654,578, Oct. 6.
Easel for display mounts, Supporting. C. N. Cross. 2,654,554, Oct. 6.
Eccentric and follower mechanism. J. L. Edelen. 2,654,266, Oct. 6.
Echo ranging system. L. R. Philpott. 2,654,881, Oct. 6.
Elastomer supported vibratory feeder motor. W. V. Spurlin. 2,654,466, Oct. 6.
Electric heating. H. C. Cunningham. 2,654,825, Oct. 6.
Electric immersion heater. R. Irving. 2,654,820, Oct. 6.
Electric pulse generator. L. R. Spaulding. 2,654,839, Oct. 6.
Electric switch. J. J. Lawser. 2,654,816, Oct. 6.
Electric swivel plug. R. L. Mudd, Jr. 2,654,869, Oct. 6.
Electric torque-converter transmission. L. A. Trofimov. 2,654,849, Oct. 6.
Electrical connector. W. A. Saul and J. J. Staller. 2,654,872, Oct. 6.
Electrical control device. J. G. Veatch, Jr. and A. M. Daily. 2,654,641, Oct. 6.
Electrical precipitator. H. A. Wintermute. 2,654,438, Oct. 6.
Electrical switch. R. A. Gesellschap. 2,654,814, Oct. 6.
Electrically powered blind riveting tool. J. N. Henshaw. 2,654,257, Oct. 6.
Electrode assembly for gas tubes. E. K. Smith. 2,654,850, Oct. 6.
Electrode for electric batteries and making same. O. H. Brill and F. Solomon. 2,654,795, Oct. 6.
Electrodeposition of bright nickel, cobalt, and alloys thereof. H. Brown. 2,654,703, Oct. 6.
Electrodeposition of metal from alkaline cyanide bath. H. K. De Long. 2,654,702, Oct. 6.
Electrolytic regeneration of spent caustic. P. J. Gaylor. 2,654,706, Oct. 6.
Electromagnetic device, Two phase. E. I. Ghormley. 2,654,393, Oct. 6.
Electroplating of nickel. H. Brown and L. B. High. 2,654,704, Oct. 6.
Elevator, Pile. L. C. Williams. 2,654,601, Oct. 6.
Elevator, Pile. L. C. Williams and N. H. Runge. 2,654,603, Oct. 6.
Engageable and releasable axle clutch. J. Lydfors. 2,654,455, Oct. 6.
Engine: *See*—
Four-stroke internal-combustion engine. Internal-combustion engine.
Esters of thiophene-modified maleic anhydride-styrene copolymers. F. P. Otto and O. M. Reiff. 2,654,727, Oct. 6.
Ethylenediamine derivatives, Substituted. D. Papa, N. Sperber, and F. Villani. 2,654,758, Oct. 6.
Exhibitor, Changeable. L. J. Solomon. 2,654,172, Oct. 6.
Expansible rotary drill bit. A. W. Kammerer. 2,654,574, Oct. 6.
Expansible rotary drill bit. A. W. Kammerer. 2,654,576, Oct. 6.
Explosive. W. J. Taylor. 2,654,666, Oct. 6.
Extraction of sulfuric acid sludge. N. E. Lemmon, F. W. Schuessler, and D. W. Bransky. 2,654,777, Oct. 6.
FM system. R. M. Wilmotte. 2,654,806, Oct. 6.
Fan or the like, Rotary. W. H. Smith. 2,654,529, Oct. 6.
Fastening device. O. J. Poupitch. 2,654,131, Oct. 6.
Fatty acid concentrates, Production of. G. H. Palmer. 2,654,768, Oct. 6.
Faucet bibb repair handle. H. H. and J. W. Wister, and C. B. Davis. 2,654,621, Oct. 6.
Feed system for steam power plants, Closed. H. Hillier. 2,654,581, Oct. 6.
Feed table for threaders, reamers, and other end-tooling operations. G. T. Church. 2,654,463, Oct. 6.
Feeder bowl. M. T. Sgriccia. 2,654,465, Oct. 6.
Fender skirt. H. J. Anschuetz. 2,654,617, Oct. 6.
Fiber glass spool. F. A. Rappleyea. 2,654,549, Oct. 6.
Filling motion for shuttleless looms. E. J. Berry and G. T. Allenson. 2,654,399, Oct. 6.
Filling replenishing means for looms. F. F. Donoghue, K. E. Sanderson, and J. D. Pigott. 2,654,400, Oct. 6.
Filter element formed of paper impregnated with thermoplastic resin. J. W. Robinson. 2,654,440, Oct. 6.
Filter for removing ice crystals from hydrocarbon liquids and the like. J. W. Robinson and W. S. James. 2,654,482, Oct. 6.
Finder mechanism for beet toppers. G. E. Stadstad. 2,654,205, Oct. 6.
Fine adjustment device. A. L. Stewart. 2,654,262, Oct. 6.
Fish cutting machine. J. J. Duggan. 2,654,119, Oct. 6.
Fish set, Automatic. R. L. Deal. 2,654,338, Oct. 6.
Fish skinning tool. G. A. Tifft. 2,654,120, Oct. 6.
Fishing line attachment. L. O. Cope and W. H. Lowe. 2,654,177, Oct. 6.
Fishing tip-up, Ice. A. F. Kachelski, F. W. Crinion, and G. J. Beers. 2,654,176, Oct. 6.
Fishing tool for rock bits, Oil field. D. Story. 2,654,627, Oct. 6.
Flaking wax. C. L. Hall. 2,654,125, Oct. 6.
Flat wire tying machine. E. Roe. 2,654,403, Oct. 6.
Flexible shaft coupling. E. C. Wahlberg. 2,654,235, Oct. 6.
Floor laying tool. A. C. Leslie. 2,654,408, Oct. 6.
Flow divider device. C. H. Stockdale and D. Johnson. 2,654,384, Oct. 6.
Flowmeter. J. H. Pfau. 2,654,246, Oct. 6.
Flowmeter, Gasoline. A. E. Hill. 2,654,245, Oct. 6.
Flow stoppage detector for fuel supply lines. G. P. Jackson. 2,654,879, Oct. 6.
Flue damper latch. W. C. Simpson. 2,654,363, Oct. 6.
Fluid distribution system, Motor-driven. G. A. Wahlmark. 2,654,323, Oct. 6.
Fluid measuring and dispensing apparatus. R. L. Rambert. 2,654,506, Oct. 6.
Fluid separator. J. H. Ammon. 2,654,351, Oct. 6.
Flux for treating aluminum and aluminum alloys. J. A. Davis and L. W. Eastwood. 2,654,670, Oct. 6.
Foldable hanger. B. Win and E. Lipiner. 2,654,484, Oct. 6.
Foldable reclining chair. A. Kirchofer. 2,654,417, Oct. 6.
Folding chair. W. E. Nordmark. 2,654,419, Oct. 6.
Folding device, Manual shirt. C. A. Calder. 2,654,511, Oct. 6.
Folding sectional top utility table. T. L. Murray. 2,654,647, Oct. 6.
Footrest. L. R. Rogers. 2,654,420, Oct. 6.
Footwear hooks, Making. A. Steinberg and A. Cavadini. 2,654,333, Oct. 6.

Forceps tool with locking means, Pivoted jaws. L. C. Herbert. 2,654,632, Oct. 6.
Forming big end up ingots. G. A. Dornin. 2,654,144, Oct. 6.
4-methyl-5-(β-hydroxyethyl)-thiazole, Preparation of. T. E. Londergan and W. R. Schmits. 2,654,760, Oct. 6.
Four-stroke internal-combustion engine. A. Scheiterlein. 2,654,355, Oct. 6.
4-tertiary-butyl-phenyl salicylate, Making. W. C. Stoesser and E. H. Sommerfield. 2,654,774, Oct. 6.
Fraction collection apparatus. G. Gorham. 2,654,522, Oct. 6.
Frame construction. J. R. Schmidgall. 2,654,451, Oct. 6.
Freight car. A. L. Simpson. 2,654,327, Oct. 6.
Frequency discriminator. O. B. Dutton. 2,654,841, Oct. 6.
Frequency shift receiver. J. B. Atwood. 2,654,801, Oct. 6.
Friction device. J. G. Oetzel. 2,654,445, Oct. 6.
Fuel oil compositions, Stable. E. Mitchell and A. P. Cramp. 2,654,660, Oct. 6.
Fuel tank. T. C. Noon and R. J. Anderson. 2,654,553, Oct. 6.
Fumbleless lamp switch. G. Brenton. 2,654,817, Oct. 6.
Furfural extraction process. F. E. Gilmore. 2,654,792, Oct. 6.
Furnace: *See*—
Reverberatory furnace.
Furnace. L. M. Harris. 2,654,592, Oct. 6.
Furnace for burning solid fuels such as bituminous coal and derivatives thereof. J. A. Worsham. 2,654,330, Oct. 6.
Furnace for metallurgical purposes, Turning. P. Schmidt. 2,654,591, Oct. 6.
Furnace structure, Joist-suspended. T. C. Gleason. 2,654,360, Oct. 6.
Furniture post end construction. G. A. Tinnerman. 2,654,620, Oct. 6.
Game device, Punchboard. V. K. Smith. 2,654,607, Oct. 6.
Gamma-morpholinopropyl cinnamate salt of penicillin. H. W. Rhodehamel, Jr. 2,654,742, Oct. 6.
Garment, Child's. G. W. Geissmann. 2,654,093, Oct. 6.
Garment, Invalid. M. M. Turnham. 2,654,367, Oct. 6.
Garment support. S. E. Norcross. 2,654,132, Oct. 6.
Garment, Woman's. H. Nelson. 2,654,091, Oct. 6.
Gas cooling contact apparatus. C. W. J. Hedberg. 2,654,584, Oct. 6.
Gas meter. R. Newton. 2,654,247, Oct. 6.
Gas turbine system with treatment between turbine stages. J. T. Rettaliata. 2,654,217, Oct. 6.
Gasification of carbonaceous solid fuels. E. Gorin. 2,654,661-3, Oct. 6.
Gasification of carbonaceous solids. J. A. Phinney. 2,654,665, Oct. 6.
Gasification of carbonaceous solids. E. H. Reichl and R. V. Safford. 2,654,664, Oct. 6.
Gate: *See*—
Portable ditch gate. Vehicle lift gate.
Gauge: *See*—
Bore gauge. Tire tread gauge.
Gear: *See*—
Steering gear.
Generator: *See*—
Electric pulse generator. Wave generator.
Pulse generator.
Generator and electron tube, Ultrahigh-frequency. W. W. Eitel, J. A. McCullough, and H. E. Sorg. 2,654,844, Oct. 6.
Generator support and casing structure of box column construction, Steam. D. M. Schoenfeld. 2,654,352, Oct. 6.
Glass feeder refractory implement chuck. K. E. Peller. 2,654,186, Oct. 6.
Glass feeder spout, Molten. W. T. Honiss. 2,654,185, Oct. 6.
Glass feeding apparatus. K. E. Peller. 2,654,184, Oct. 6.
Glass fiber drawing device. J. F. Courtney and A. C. Radtke. 2,654,182, Oct. 6.
Glass fiber drawing device. A. C. Radtke. 2,654,183, Oct. 6.
Glass lifting mechanism for hurricane lamps. P. F. M. Pitavy. 2,654,829, Oct. 6.
Gold base alloy. V. G. Mooradian. 2,654,146, Oct. 6.
Golf club construction. A. S. Liebers. 2,654,608, Oct. 6.
Grain drier. L. V. Molenaar. 2,654,590, Oct. 6.
Grid for ice trays, Expansible. R. M. Storer. 2,654,230, Oct. 6.
Grid structures, Manufacture of. V. J. Legendre and J. V. Volk. 2,654,401, Oct. 6.
Guanidino fatty acid, Preparation of. B. Vassel and R. Garut. 2,654,779, Oct. 6.
Guard for rotary fans, Protective. A. L. Collins. 2,654,533, Oct. 6.
Gutter circle and making same. M. Rachlin. 2,654,455, Oct. 6.
Hair curler. G. M. McIlrath. 2,654,371, Oct. 6.
Hair curler. B. Stoyanoff. 2,654,372, Oct. 6.
Hair curling device. R. K. Weaver and P. T. Hahn. 2,654,373, Oct. 6.
Hair drier attachment for vacuum cleaners. D. W. Bowen. 2,654,161, Oct. 6.
Hair-setting and hair-trimming appliance. J. H. Richmond. 2,654,374, Oct. 6.
Handle: *See*—
Faucet bibb repair handle. Snap-on basket handle.
Handling of freight aboard ships. H. Kummerman. 2,654,488, Oct. 6.
Hanger: *See*—
Foldable hanger.
Hanger for traverse rods, Drapery. J. V. and J. N. Graber. 2,654,114, Oct. 6.
Hardware for swinging sliding storm sashes. H. E. Graves, Jr. 2,654,127, Oct. 6.
Harvester pickup. E. R. Raney and E. F. Huddle. 2,654,209, Oct. 6.
Hay sweep and stacker, Combination. J. E. Stratman. 2,654,494, Oct. 6.
Head box construction for Venetian blinds and mounting bracket therefor. G. L. Sherwood. 2,654,426, Oct. 6.
Header integral with and sealed into boiler casing. E. W. Ludt. 2,654,353, Oct. 6.
Heat exchanger and ash collector apparatus. H. D. Fox. 2,654,582, Oct. 6.
Heat-treatment of materials. F. P. Somogyi. 2,654,588, Oct. 6.
Heater: *See*—
Antifreeze heater. Electric immersion heater.
Combination water and space combustion heater.
Heating apparatus and controls therefor, Combustion. F. B. Aubert. 2,654,422, Oct. 6.
Helical conveying apparatus. Continuous strand. E. T. Lorig. 2,654,139, Oct. 6.
High-voltage electrode housing and terminal assembly for gaseous discharge tubes. S. C. Miller. 2,654,870, Oct. 6.
Hinge, Spring. M. H. Scott. 2,654,118, Oct. 6.
Hitch for heavy implements. R. W. Wilson. 2,654,304, Oct. 6.
Hoist with friction brake, Milk can. J. J. Voda. 2,654,570, Oct. 6.
Holder: *See*—
Coil holder. Sewing needle holder.
Coin holder.
Rotary abrading strip holder.
Holder for condiment jars. J. R. T. Bishop and D. E. Swanson. 2,654,485, Oct. 6.
Holster for fountain pens and the like, Pocket. A. T. Lundberg. 2,654,130, Oct. 6.
Honeycomb core, Stiffened. O. A. Hansen. 2,654,686, Oct. 6.
Hood latch. A. Claud-Mantle. 2,654,116, Oct. 6.
Hopper connecting means for distributing mechanisms. E. L. Faust. 2,654,509, Oct. 6.
Horizontal plate lifting clamp. J. C. Renfroe. 2,654,629, Oct. 6.
Hose coupling device for connection to unthreaded faucets. M. G. Kurth. 2,654,618, Oct. 6.
Hot machining of metals. H. W. Gillett. 2,654,821, Oct. 6.
Humidifier. A. E. Scharf. 2,654,362, Oct. 6.
Hydraulic actuator, Power-operated. E. R. Price. 2,654,224, Oct. 6.
Hydraulic jack. W. S. Pine. 2,654,568, Oct. 6.
Image registration in color television systems or the like. C. G. Seright. 2,654,854, Oct. 6.
Implement and trailer hitch. C. L. Blair and R. L. Fox. 2,654,613, Oct. 6.
Implement for carrying out digging operations. C. J. Rice. 2,654,626, Oct. 6.
Impulse circuit. R. Widerøe. 2,654,838, Oct. 6.
Increasing stability of rubbery polymer reaction products and resulting compositions. J. M. Goppel, G. E. Rumscheidt, and J. T. Hackmann. 2,654,680, Oct. 6.
Incubator. G. S. Edwards. 2,654,345, Oct. 6.
Indexing mechanism for turrets of automatic machine tools. W. E. R. Pulman. 2,654,271, Oct. 6.
Indicator: *See*—
Mailbox indicator.
Thermally actuated voltage indicator.
Indicator for television quiz shows, Automatic. J. P. Reynolds. 2,654,163, Oct. 6.
Indicator for working position of agricultural tools. J. Sperling. 2,654,339, Oct. 6.
Indium acetylacetonate, Preparation of. A. P. Kosacik and E. M. Nygaard. 2,654,769, Oct. 6.
Inductance unit. A. S. Khouri. 2,654,861, Oct. 6.
Ink-ribbon reversal mechanism for typewriters and printing business machines. I. Bovio. 2,654,461, Oct. 6.
Inker, Printing plate. C. G. Dudis and R. F. Du Bois. 2,654,340, Oct. 6.
Instrument for determining motor vehicle action. L. J. Fuller. 2,654,538, Oct. 6.
Instrument, Vibration indicating. W. H. Harstick. 2,654,595, Oct. 6.
Insulated electric connector. R. C. Swengel. 2,654,873, Oct. 6.
Interchangeable shoulder pad. R. E. Riley. 2,654,096, Oct. 6.
Internal-combustion engine. J. E. Witzky. 2,654,357, Oct. 6.
Iodinated mercapto-imidazoles. C. F. Huebner and C. R. Scholz. 2,654,761, Oct. 6.
Iodinated substituted mercapto-imidazoles. C. F. Huebner and C. R. Scholz. 2,654,762, Oct. 6.
Iron: *See*—
Steam iron.
Jack: *See*—
Hydraulic jack.

Jet deflector to compensate for destabilizing moment in a jet aircraft, Movable. J. Jonas. 2,654,552, Oct. 6.
Jigsaw hold-down foot and blade guide. B. W. Hulfish. 2,654,405, Oct. 6.
Joint: *See*—
Microwave rotatable joint.
Joint for roofing or like sheets. P. E. McCullough. 2,654,328, Oct. 6.
Keyboard controller, Alphabetic. J. M. Cunningham and A. F. Smith. 2,654,812, Oct. 6.
Keyed automatic gain control with keying pulse limiter. K. R. Wendt. 2,654,799, Oct. 6.
Knife control for paper-cutting machines. W. C. Rupp. 2,654,429, Oct. 6.
Knurling device. C. F. Jones. 2,654,273–6, Oct. 6.
Label and washable container labeled therewith, Disintegrable. L. R. Nestor. 2,654,170–1, Oct. 6.
Ladder operating mechanism. E. G. Humpal and R. O. Balogh. 2,654,524, Oct. 6.
Laminated bowling pin. J. L. Stearns and C. H. Hoffman. 2,654,606, Oct. 6.
Lamp for vehicles, Repair and warning. A. R. Sparaco. 2,654,877, Oct. 6.
Lamp with removable reflector unit. A. F. Vandenberg. 2,654,828, Oct. 6.
Latch: *See*—
Flue damper latch. Hood latch.
Latch mechanism for disappearing wardrobe doors. J. F. Schaefer. 2,654,241, Oct. 6.
Lawn edger. C. V. Redfield. 2,654,180, Oct. 6.
Lawn mower, Sickle bar type. T. T. Bathurst. 2,654,200, Oct. 6.
Lawn sprinkler, Controlled contour. A. Lazzarini. 2,654,635, Oct. 6.
Lens ventilation in goggles structure. W. R. Christensen and C. E. Cross. 2,654,090, Oct. 6.
Leveling means for vehicles. G. L. Runkle and D. H. Cox. 2,654,633, Oct. 6.
Light-colored rubber hydrochlorides, Preparing. L. Orthner and M. Rieber. 2,654,793, Oct. 6.
Liquid applicator, Revolvable ball type. L. J. Scelsi. 2,654,108, Oct. 6.
Liquid hydrocarbon fuel from coal, Preparing. W. I. Gilbert and C. W. Montgomery. 2,654,695, Oct. 6.
Load compensated transfer valve. C. Beck. 2,654,348, Oct. 6.
Lock lid, Garbage or ash can. O. J. Huggins. 2,654,623, Oct. 6.
Locked paper box. R. McReary. 2,654,526, Oct. 6.
Locking device for toolholding or like set-screws. S. E. Proctor. 2,654,410, Oct. 6.
Loom with stationary weft supply, Weaving. G. Haselton. 2,654,398, Oct. 6.
Low-temperature distillation of coal. J. A. Phinney. 2,654,698, Oct. 6.
Lubricated gas meter. R. Newton. 2,654,248, Oct. 6.
Lubrication means for transmissions. P. Orr and K. M. Armantrout. 2,654,441, Oct. 6.
Luggage carrier for automobiles, Collapsible. L. A. Edwards. 2,654,516, Oct. 6.
Luminescent resins from aryl-substituted alkyl halides and alkenyl ethers of a polyhydroxy organic compound. E. M. Geiser. 2,654,732, Oct. 6.
Luminescent screen composition. C. W. Thierfelder. 2,654,675, Oct. 6.
Machine and process for making platform soles or shells. A. R. Ridderstrom. 2,654,103, Oct. 6.
Machine for affixing tabs to articles. H. Meyer and R. W. Shepherd. 2,654,496, Oct. 6.
Machine for assembling ladders. H. B. Rich. 2,654,406, Oct. 6.
Machine for attaching pouring spouts to containers. M. H. Klausmann and H. J. Brucker. 2,654,332, Oct. 6.
Machine for decorating articles such as cups, pitchers, bowls, and the like. J. K. O'Hare. 2,654,313, Oct. 6.
Machine for making and forming turbine blades. O. Hedlund. 2,654,277, Oct. 6.
Machine for manufacturing container elements and the like. W. T. Burbank and C. T. Colgren. 2,654,343, Oct. 6.
Machine for marking and affixing tabs to articles. H. Meyer. 2,654,495, Oct. 6.
Machine for marking statistical records by conductive marks. C. E. Connolly. 2,654,459, Oct. 6.
Machine for washing dishes and the like. J. M. Drees. 2,654,379, Oct. 6.
Magnetic clutch. M. C. Turkish. 2,654,454, Oct. 6.
Magnetic sound apparatus. M. Camras. 2,654,809, Oct. 6.
Mailbox indicator. J. A. Van Meter. 2,654,534, Oct. 6.
Making and staying electrical transformer windings. S. Horelick. 2,654,142, Oct. 6.
Malting apparatus. E. E. Frauenheim, Jr. 2,654,691, Oct. 6.
Mandrel, Expansible. J. C. Weidel. 2,654,413, Oct. 6.
Manual control device for combine table elevators. A. P. Dobrowski. 2,654,206, Oct. 6.
Manufacture of plastic edge type filters, Method and apparatus for. R. R. Layte. 2,654,124, Oct. 6.
Margin control for typewriters, Bottom. Q. H. Hu and C. Y. Lee. 2,654,460, Oct. 6.
Marker for allotting a link and a sender. J. O'D. Shepherd. 2,654,807, Oct. 6.
Means for holding receptacles. H. J. Klante. 2,654,628, Oct. 6.
Measured charge supply control flow mechanism for automatic packaging machine operations. H. O. Irmscher. 2,654,195, Oct. 6.
Measurement of water vapor in gases. M. B. Fallgatter and K. E. Hallikainen. 2,654,242, Oct. 6.
Measuring device, Rebound hardness. M. D. Braid. 2,654,244, Oct. 6.
Mechanized feeding mechanism for animals. W. B. Peterson and A. C. Radtke. 2,654,844, Oct. 6.
Merchandising package, Lamp-bulb. R. T. White. 2,654,472, Oct. 6.
Meter: *See*—
Gas meter. Moisture meter.
Lubricated gas meter.
Method and device for regulating the output and pressure conditions of the working medium in gas turbine plants. W. Traupel. 2,654,216, Oct. 6.
Method and machine for making inlaid products. W. E. Benedict and J. G. Van Sciver. 2,654,415, Oct. 6.
Microwave rotatable joint. J. F. Zaleski. 2,654,868, Oct. 6.
Microwave test equipment. H. J. Riblet. 2,654,863, Oct. 6.
Mill: *See*—
Dispersion mill.
Mingler. J. Hertrich. 2,654,364, Oct. 6.
Mixer: *See*—
Motorized drink mixer.
Moistening means for planographic printing machines. A. Southway. 2,654,314, Oct. 6.
Moisture impervious absorbent sheet for covering work surfaces in chemical laboratories and the like. A. Heikin. 2,654,684, Oct. 6.
Moisture meter. J. A. Tuck. 2,654,864, Oct. 6.
Molded plastic spool and drive. E. H. Parsons. 2,654,542, Oct. 6.
Monocyclic terpene-sulfur-phosphorus sulfide reaction product and lubricating oil containing the same. A. D. Kirshenbaum and H. W. Rudel. 2,654,711, Oct. 6.
Monoethers of an araliphatic glycol and their use in the control of pests. F. Haefliger. 2,654,688, Oct. 6.
Mothproofing agent and material containing the same. I. M. Rasmussen and E. F. Rogers. 2,654,677, Oct. 6.
Motor: *See*—
Elastomer supported vibra- Step-by-step electric motory feeder motor. tor.
Motor construction, Submergible. E. J. Schaefer. 2,654,848, Oct. 6.
Motor control. J. L. Drnek. 2,654,859, Oct. 6.
Motor fuel. H. J. Andress, Jr., and F. L. Nelson. 2,654,697, Oct. 6.
Motorized drink mixer. W. A. Ernst. 2,654,847, Oct. 6.
Mounting means for television picture tubes. A. Eisenkramer. 2,654,880, Oct. 6.
Muffler with a hemispherical outer wall having a plurality of apertures of various sizes and shapes. E. C. Woods. 2,654,437, Oct. 6.
Multicolor electronographic printing. W. C. Huebner. 2,654,315, Oct. 6.
Multiple notching die. A. Martincic. 2,654,428, Oct. 6.
Multiplex frequency modulation communication system. B. M. Wilmotte. 2,654,885, Oct. 6.
Muntin cross joint in an insulated metal closure. M. E. Priem. 2,654,452, Oct. 6.
Musical instrument. G. Barr. 2,654,283, Oct. 6.
N-β-(3-pyridyl)-ethylmorpholine salt of penicillin. H. W. Rhodehamel, Jr. 2,654,741, Oct. 6.
N,N'-phthalyl hydrazine fungicidal composition. W. B. Ligett, R. D. Closson, and C. N. Wolf. 2,654,689, Oct. 6.
Nail polish template. R. L. and R. J. Frank. 2,654,375, Oct. 6.
Needle mounting for knitting machines. H. C. Noe. 2,654,237, Oct. 6.
Nesting container shells. L. D. Pierce. 2,654,473, Oct. 6.
New azapentylene diammonium salt. K. Miescher and A. Marxer. 2,654,776, Oct. 6.
Nickel plating. B. C. Case. 2,654,705, Oct. 6.
Nitration of organic compounds. W. H. Marshall, Jr. 2,654,788, Oct. 6.
Nonregenerative catalytic reforming process. C. V. Berger and D. D. Hansen. 2,654,694, Oct. 6.
Nozzle for ventilating stacks, Accelerator and diffusing. B. Cones. 2,654,528, Oct. 6.
Nursing bottle support. L. B. Lathrop. 2,654,556, Oct. 6.
Obtaining improved color fidelity in color television systems, Means and method for. P. J. Herbst. 2,654,798, Oct. 6.
Octaalkylpyrophosphoramides, Manufacture of. H. Tolkmith. 2,654,782–3, Oct. 6.
Offset boring head. H. R. De Vlieg. 2,654,610, Oct. 6.
1-β-naphthyl-1-aminoethane salt of penicillin. H. W. Rhodehamel, Jr. 2,654,748, Oct. 6.
1-dimethylamino-4-chloro-4-phenylbutane salt of penicillin. H. W. Rhodehamel, Jr. 2,654,746, Oct. 6.
1,2-diphenyl-2-(4-methylpiperidino) ethanol salt of penicillin. H. W. Rhodehamel, Jr. 2,654,745, Oct. 6.
Open locking plate lifting clamp. J. C. Renfroe. 2,654,631, Oct. 6.
Opener and receptacle, Can. R. L. Tuve and E. J. Jablonski. 2,654,507, Oct. 6.
Opener, Bag. H. V. Kindseth. 2,654,519, Oct. 6.
Operating mechanism for domestic ironing machines and the like. J. F. Young. 2,654,166, Oct. 6.

Operation of vertical shaft furnaces. F. P. Somogyi. 2,654,594, Oct. 6.
Optical viewing device for night driving. J. M. Cesar. 2,654,286, Oct. 6.
Ordinally-selective key-responsive cycle initiating mechanism. D. P. Brubaker and F. E. Woodley. 2,654,539, Oct. 6.
Organic ammonium hydrosulfide-hydrogen sulfide reaction products and producing the same. D. E. Adelson. 2,654,733, Oct. 6.
Organic derivatives of phosphonic acids and preparing the same. H. Z. Lecher and E. Kuh. 2,654,738, Oct. 6.
Overload protective relay. C. I. Hall. 2,654,813, Oct. 6.
Oxidation-resistant hard composition. J. W. Graham. 2,654,145, Oct. 6.
Package and parts thereof for delicate articles. C. D. Verde. 2,654,468, Oct. 6.
Package for capped containers. W. A. Ringler. 2,654,474, Oct. 6.
Packing device. R. G. Piety. 2,654,433, Oct. 6.
Packless valve. D. H. Thorburn. 2,654,394, Oct. 6.
Pad: *See*—
Interchangeable shoulder pad. Self-inking rubber stamp pad.
Paint applying roller. O. P. Magoon. 2,654,107, Oct. 6.
Paper product and its preparation. J. L. Asorlosa. 2,654,671, Oct. 6.
Pattern controlled drive mechanism for machines for operating upon warps. R. P. Drake. 2,654,138, Oct. 6.
Penicillin salt of an amine. H. W. Rhodehamel, Jr. 2,654,750, Oct. 6.
Phonograph control means. L. C. Ammlung, Jr. and J. A. Tourtellot. 2,654,457, Oct. 6.
Phosphoric acid anhydrides, Manufacture of. H. Tolkmith. 2,654,784, Oct. 6.
Photocell. O. T. McIlvaine. 2,654,819, Oct. 6.
Photoconductive target for cathode-ray devices. R. R. Goodrich. 2,654,852, Oct. 6.
Photoelectric apparatus. P. K. Weimer. 2,654,853, Oct. 6.
Photoelectric translating system. B. F. Miessner. 2,654,810, Oct. 6.
Photoflash synchronizing mechanism. G. N. Smith. 2,654,299, Oct. 6.
Photoprinting apparatus. L. Baker. 2,654,300, Oct. 6.
Pin: *See*—
Laminated bowling pin.
Pipe: *See*—
Smoking pipe.
Pipe holster. C. S. Jensen. 2,654,514, Oct. 6.
Pipe jack and adapter. R. J. Cooper. 2,654,569, Oct. 6.
Pipe puller. H. L. James. 2,654,567, Oct. 6.
Piston. G. Lidseen. 2,654,646, Oct. 6.
Planting machine having rotary ground-engaging seed reservoirs, Corn. T. A. Purvis. 2,654,510, Oct. 6.
Plastic molding powder and the manufacture thereof. R. A. Sorenson. 2,654,716, Oct. 6.
Plasticizers and plastic compositions. E. H. Schwencke. 2,654,719, Oct. 6.
Plate lifting clamp. J. C. Renfroe. 2,654,630, Oct. 6.
Plating aluminum. E. R. Calderon and G. W. Slomin. 2,654,701, Oct. 6.
Plug: *See*—
Electric swivel plug.
Pneumatic dual moting and lint cleaning air blast gin. J. J. Wallace. 2,654,126, Oct. 6.
Pole climbing device. R. A. Elliott. 2,654,638, Oct. 6.
Polishing and grinding disk assembly, Abrasive. E. L. Rich, J. K. Bauer, and W. E. Dengel. 2,654,193, Oct. 6.
Polyethylene glycols from ether-esters of glycolic acid. W. F. Gresham. 2,654,786, Oct. 6.
Polymerizable and polymerized compositions comprising an N-alkenyl-o-alkylisourea. J. A. Price. 2,654,725, Oct. 6.
Polymerizable compositions comprising an unsaturated quaternary ammonium compound and polymerization products thereof. J. A. Price. 2,654,729, Oct. 6.
Polymerization control of acrylonitrile. H. T. Patterson. 2,654,731, Oct. 6.
Polysiloxane-aluminum soap greases. B. W. Hotten. 2,654,710, Oct. 6.
Polysulphone aminotriazoles. J. W. Fisher, E. W. Wheatley, and G. B. May. 2,654,726, Oct. 6.
Polyvinyl composition and making same. C. E. Greene. 2,654,723, Oct. 6.
Popcorn machine. A. D. Altemiller. 2,654,823, Oct. 6.
Portable ditch gate. H. A. and C. V. Saunders. 2,654,225, Oct. 6.
Positive and constant-tension web letoff mechanism for textile machines. G. E. Clentimack. 2,654,236, Oct. 6.
Pot cleaner. F. A. Pusch. 2,654,191, Oct. 6.
Power-driven stalk cutter. E. F. Ohlendorf. 2,654,199, Oct. 6.
Power lift. J. H. Starr. 2,654,302, Oct. 6.
Power plant having auxiliary air inlet and thrust augmenter, Turbine. R. S. Thompson. 2,654,215, Oct. 6.
Power press and the like thrust-controlled machines. E. Auriol. 2,654,264, Oct. 6.
Power steering and shimmy dampening, Combined. W. H. Clark. 2,654,347, Oct. 6.
Power takeoff transmission, Multiple. W. P. Schmitter. 2,654,267, Oct. 6.
Power washing cream separator. H. A. Heckendorf. 2,654,536, Oct. 6.
Predetermining the appearance of fabricated articles, Method and means. L. C. Savadelis. 2,654,288, Oct. 6.
Press: *See*—
Curved side plate hydrau- Shoe cementing press.
lic press. Vertical baling press.
Printing press.
Pressure cooker. P. Antonioli, Jr., and A. Johnson. 2,654,501, Oct. 6.
Primed hardboard, Producing. J. B. McCorkle. 2,654,296, Oct. 6.
Printing fluid, Colorless. D. W. Steinhardt. 2,654,673, Oct. 6.
Printing press. W. M. Pollock. 2,654,316, Oct. 6.
Producing slate shingles or the like, Process and apparatus for. E. T. Lake. 2,654,358, Oct. 6.
Projectile method and means. M. B. Robinson. 2,654,321, Oct. 6.
Puller: *See*—
Calf puller. Pipe puller.
Pulp shredding and treating machine. C. W. Morden. 2,654,294, Oct. 6.
Pulse generator. C. E. Wiegand. 2,654,840, Oct. 6.
Pulverizable and readily soluble brightening agents. F. Fleck. 2,654,713, Oct. 6.
Pump: *See*—
Constant delivery pump.
Pump. H. W. Olsen. 2,654,322, Oct. 6.
Pump with pressure loaded bushing and wear insert element, Gear type. R. J. Minshall. 2,654,325, Oct. 6.
Pumping device for pumping fluids, Electromagnetic. A. Ryba. 2,654,324, Oct. 6.
Pumping jack oil makeup and pressure control. F. H. Rued. 2,654,221, Oct. 6.
Pyrrolidine analgesic. C. von Seemann and G. A. Grant. 2,654,764, Oct. 6.
Quaternated aza-pentane amines. K. Miescher and A. Marxer. 2,654,785, Oct. 6.
Rack: *See*—
Anodizing rack. Storage rack.
Rack and cabinet, Oil can display. F. D. Wright. 2,654,508, Oct. 6.
Rack for automobiles, Boat. J. J. Svoboda. 2,654,515, Oct. 6.
Radio apparatus, Aircraft. W. K. Ergen. 2,654,882, Oct. 6.
Radio distance measuring system. W. Palmer. 2,654,884, Oct. 6.
Radio frequency amplitude control device. L. G. Fischer. 2,654,866, Oct. 6.
Radio object locating system. D. F. McAvoy. 2,654,883, Oct. 6.
Radio receiver tuning indicating apparatus, Remote. J. G. Black. 2,654,651, Oct. 6.
Railing. L. W. Cremens. 2,654,579, Oct. 6.
Raising vehicles, Method and device for. E. B. Thompson. 2,654,443, Oct. 6.
Razor, Disposable. W. M. Robinson. 2,654,148, Oct. 6.
Razor, Safety. B. Bowen and C. L. Metzler. 2,654,149, Oct. 6.
Razor, Safety. S. Henschien. 2,654,150, Oct. 6.
Recording tape, Magnetic. L. B. Lueck. 2,654,681, Oct. 6.
Reducing elbow. G. A. Gaum. 2,654,619, Oct. 6.
Reducing iron oxides. N. J. Urquhart and C. A. Rider. 2,654,669, Oct. 6.
Refiner apparatus. L. M. Sutherland. 2,654,295, Oct. 6.
Refining and purifying fats and higher fatty acids. I. Taussky. 2,654,766, Oct. 6.
Refrigerating coil mounting in cabinet. R. L. Eichhorn. 2,654,231, Oct. 6.
Regulator for clockworks, watch movements, and the like, Mechanical motion. H. Steiger. 2,654,214, Oct. 6.
Regulator for take-up reels. E. May. 2,654,543, Oct. 6.
Releasable connection device. E. D. Grizzard, F. R. Collar, and J. C. Mitchell. 2,654,135, Oct. 6.
Remote-control system. W. A. Derr. 2,654,805, Oct. 6.
Remote operator for wagon elevator throw-out clutches. J. L. Aasland. 2,654,258, Oct. 6.
Removing the skin from hogs. R. E. Derby. 2,654,122, Oct. 6.
Resin article, Locally reinforced. E. H. Voelker. 2,654,685, Oct. 6.
Reverberatory furnace. D. A. Knight. 2,654,593, Oct. 6.
Riveting process. W. W. D. Warren. 2,654,272, Oct. 6.
Roll seal. K. Skivesen. 2,654,587, Oct. 6.
Rotary abrading strip holder. L. Lynch. 2,654,192, Oct. 6.
Rotary hydraulic coupling. E. Wang. 2,654,223, Oct. 6.
Sales and display package of drapery hooks. C. Tate. 2,654,476, Oct. 6.
Salts of penicillin with dimethylamino, diphenyl-substituted esters. H. W. Rhodehamel, Jr. 2,654,749, Oct. 6.
Salts of penicillin with O-(2-aminoalkylamino)-benzoic acid esters. H. W. Rhodehamel, Jr. 2,654,739, Oct. 6.
Sampling apparatus. J. Visman. 2,654,249, Oct. 6.
Sampling apparatus, Liquid. E. R. Harrington. 2,654,250, Oct. 6.
Sampling device, Fluid. E. R. Harrington. 2,654,251, Oct. 6.
Sanding and polishing spools and the like, Method and apparatus for. C. J. Lippold. 2,654,188, Oct. 6.
Sanding device for locomotives. H. G. Foster. 2,654,622, Oct. 6.

Sanitary apparatus for dispensing measured quantities of liquid, Automatic. R. E. Corradini, L. S. Lynch, O. Bonomi, and G. C. Engel. 2,654,517, Oct. 6.
Saw machine for cutting timber, Multiple chain. F. and R. P. Neuhauser. 2,654,404, Oct. 6.
Scraper with front digger moving means, Carry-type. E. H. Lichtenberg. 2,654,165, Oct. 6.
Screw driver, Motor-driven. A. J. Dremel. 2,654,407, Oct. 6.
Screw with self-drilling end. L. O. Schevenell. 2,654,284, Oct. 6.
Sealed package. L. L. Salfisberg. 2,654,471, Oct. 6.
Sealing apparatus. A. L. Lucarelli. 2,654,181, Oct. 6.
Sealing the envelopes of vacuum tubes. G. J. Agule. 2,654,822, Oct. 6.
Seating device, Wheel-like. E. H. Bisner and P. P. Gallagher. 2,654,418, Oct. 6.
Sectional wall clip. J. D. Beamer and J. Bidak. 2,654,449, Oct. 6.
Seismic exploration system. F. Press. 2,654,874, Oct. 6.
Self-inking rubber stamp pad. H. G. Marriott. 2,654,342, Oct. 6.
Separation of suspensions of solid matter in liquids. M. G. Driessen. 2,654,479, Oct. 6.
Separator: *See*—
Fluid separator.
Power washing cream separator.
Servomotor control valve. E. R. Price. 2,654,391, Oct. 6.
Sewing needle holder. W. J. Spencer. 2,654,513, Oct. 6.
Sharpening implement, Sickle bar. L. T. Ferrin. 2,654,187, Oct. 6.
Shed closing and pick-back mechanism. N. P. Darash. 2,654,397, Oct. 6.
Sheet delivery mechanism. J. W. Clay. 2,654,604, Oct. 6.
Sheet metal pillow block. J. T. Ruist. 2,654,645, Oct. 6.
Sheet-supporting machine. H. T. Backhouse. 2,654,602, Oct. 6.
Sheeter and wrapper for package wrapping machines, Combination. M. H. Corley, B. A. Arvidson, and R. F. Barber. 2,654,196, Oct. 6.
Shield or towel, Protecting. J. Brennish. 2,654,092, Oct. 6.
Shift control for auxiliary transmissions. C. M. Perkins. 2,654,268, Oct. 6.
Shoe cementing press. M. C. Suerken. 2,654,104, Oct. 6.
Shoe upper trimming machine. M. H. Roske. 2,654,105, Oct. 6.
Shuttle valve. K. H. Pech. 2,654,564, Oct. 6.
Side registration control device for moving webs. S. E. Frisbie, W. O. Smiley, and J. C. Frommer. 2,654,599, Oct. 6.
Signal for vehicles, Road actuated safety. E. H. Austin. 2,654,876, Oct. 6.
Signaling system, Railway. J. E. Willing and G. O. Ferm. 2,654,831, Oct. 6.
Skid arrangement for haulaway vehicles. P. J. Pressler. 2,654,492, Oct. 6.
Slack adjusting device for air brakes. J. J. Daly. 2,654,447, Oct. 6.
Smoking pipe. R. L. Smith. 2,654,370, Oct. 6.
Snap-on basket handle. C. H. Kafer. 2,654,115, Oct. 6.
Socket, Cathode-ray tube. D. B. Keim. 2,654,871, Oct. 6.
Solutions of polymeric materials comprising at least 80 percent of polymerized acrylonitrile. M. R. Lytton. 2,654,721, Oct. 6.
Solvent dewaxing. W. Kiersted, Jr. and H. H. Gross. 2,654,692, Oct. 6.
Sound recording and reproducing apparatus, Magnetic. R. E. O. Olsson and A. B. Dahl. 2,654,808, Oct. 6.
Spectacle case. K. T. Parsell. 2,654,503, Oct. 6.
Spectacles with pivotally mounted nose rest. I. Hirschman. 2,654,290, Oct. 6.
Spectrophotometer. K. Luft. 2,654,287, Oct. 6.
Spoon, Multiple measuring. R. B. Davis. 2,654,252, Oct. 6.
Spout structure, Swinging. F. J. and T. E. Archer. 2,654,390, Oct. 6.
Spray device, Motor operated. F. M. Duncan. 2,654,636, Oct. 6.
Spring for motor vehicles, Leaf. B. Barényi. 2,654,597, Oct. 6.
Spring jaw chuck, Adjustable. C. C. Lee. 2,654,611, Oct. 6.
Spring support attachment. A. H. Bennett. 2,654,100, Oct. 6.
Stabilized reaction products of rubbery polymers with inorganic acidifying compounds. J. M. Goppel, G. E. Rumscheidt, and J. T. Hackmann. 2,654,679, Oct. 6.
Stabilized solid organic compositions containing acyl-p-aminophenols. D. W. Young and D. L. Cottle. 2,654,722, Oct. 6.
Stabilized starch derivatives. C. G. Caldwell and O. B. Wurzburg. 2,654,736, Oct. 6.
Stabilizer composition and stabilized vinyl resin. O. J. Grummitt, R. E. Blank, and D. Marsh. 2,654,718, Oct. 6.
Stamping system, Electric. W. E. Phipps. 2,654,312, Oct. 6.
Stand and bassinet combination. M. E. Heyward. 2,654,098, Oct. 6.
Staple support slide and feed means for stapling machines. S. Segal. 2,654,087, Oct. 6.
Stapling machine. H. J. Spencer. 2,654,088, Oct. 6.
Steam iron. A. A. Johnson. 2,654,167, Oct. 6.
Steering gear. F. K. H. Nallinger. 2,654,265, Oct. 6.
Stem and closure member connection. J. Trefil. 2,654,561, Oct. 6.
Step-by-step electric motor. W. Lohs and F. Sommer. 2,654,846, Oct. 6.
Steroid halonitriles. F. W. Hayl and M. E. Herr. 2,654,765, Oct. 6.
Stoker apparatus. D. J. Mosshart. 2,654,331, Oct. 6.
Stop motion for knitting machines, Electrical. W. O. Heyne. 2,654,238, Oct. 6.
Storage arrangement. H. Ingold. 2,654,489, Oct. 6.
Storage cell and battery and manufacturing the same, Sealed. S. Zaugg. 2,654,794, Oct. 6.
Storage rack. R. K. Degener. 2,654,487, Oct. 6.
Strip metal rolling process and apparatus. M. Michel, 2,654,278, Oct. 6.
Stripper pin for sheet feeding machines. M. J. Ajam and C. A. Bergman. 2,654,600, Oct. 6.
Stud assembly for luggage. M. L. Duskin. 2,654,453, Oct. 6.
Subcaliber adapter. J. V. Dunham. 2,654,318, Oct. 6.
Subjecting discrete units of solid materials to treatment by gaseous mediums. B. C. Skinner. 2,654,734, Oct. 6.
Substituted ethylenediamine derivatives. D. Papa, N. Sperber, and F. Villani. 2,654,758, Oct. 6.
Substituted glycinamides. W. F. Bruce and J. Seifter. 2,654,754, Oct. 6.
Substituted 2-methylpiperidinopropyl benzoate salts of penicillin. H. W. Rhodehamel, Jr. 2,654,751, Oct. 6.
Suction apparatus. S. A. Henderson. 2,654,557, Oct. 6.
Sulfoxides as plant defoliants. L. D. Goodhue and C. E. Tissot. 2,654,667, Oct. 6.
Sulfurized monocyclic terpenes and oil compositions containing them. E. B. Cyphers and A. E. Michaels. 2,654,712, Oct. 6.
Supercharger. S. Oldberg. 2,654,530, Oct. 6.
Support: *See*—
Garment support.
Nursing bottle support.
Surface marking device for containers. C. A. Costanso. 2,654,311, Oct. 6.
Sweeper, Lawn. E. D. Parker. 2,654,106, Oct. 6.
Sweeper, Magnetic floor. D. E. Stem. 2,654,480, Oct. 6.
Switch: *See*—
Electric switch.
Electrical switch.
Fumbleless lamp switch.
Transmit-receive switch.
Switching system, Teletypewriter. G. J. Knandel. 2,654,797, Oct. 6.
Synthesizing pteridines. M. J. Fahrenbach. 2,654,755, Oct. 6.
Table: *See*—
Folding sectional top utility table.
Table of the drophead type, Sewing machine. E. W. Stanton. 2,654,650, Oct. 6.
Tandem expansible rotary drill bit. A. W. Kammerer. 2,654,575, Oct. 6.
Tank: *See*—
Fuel tank.
Tape-dispensing device. A. P. Krueger. 2,654,598, Oct. 6.
Tape measuring dispenser. A. P. Krueger. 2,654,154, Oct. 6.
Tappet, Hydraulic. S. Oldberg. 2,654,356, Oct. 6.
Telegraph repeater system. E. Rossberg and W. Lockemann. 2,654,803, Oct. 6.
Telephone set. H. P. Boswau and A. C. Reid. 2,654,811, Oct. 6.
Telephone system, Power line carrier. R. C. Edson. 2,654,804, Oct. 6.
Television-to-radio voltage changing system. S. I. Tourshou and G. E. Skorup. 2,654,800, Oct. 6.
Temperature control of air supply systems. G. E. Shaw. 2,654,580, Oct. 6.
Temperature control system, Radiator. E. J. Sanders. 2,654,354, Oct. 6.
Tensioning device for tractors. J. A. Bombardier. 2,654,639, Oct. 6.
Tetraalkyldiamidophosphoryl phosphoric dichlorides. H. Tolkmith. 2,654,780, Oct. 6.
Thermally actuated voltage indicator. C. W. Klug. 2,654,865, Oct. 6.
Thermometer, Resistance. C. C. Whitehead. 2,654,818, Oct. 6.
3-diethylaminomethylpyridine salt of penicillin. H. W. Rhodehamel, Jr. 2,654,747, Oct. 6.
Throttle valve. S. A. Foster. 2,654,562, Oct. 6.
Thumb rest safety, Revolver. M. Hansen. 2,654,174, Oct. 6.
Tire tread gauge. R. K. Boyer. 2,654,156, Oct. 6.
Tool: *See*—
Diaphragm spring reciprocating tool.
Electrically powered blind riveting tool.
Fish skinning tool.
Floor laying tool.
Tube expanding tool.
Tool with a rocking pressure member, Tube bending hand. M. Tomarin. 2,654,279, Oct. 6.
Torpedo with rolling hull. C. C. Wheeler. 2,654,334, Oct. 6.
Totalizer control mechanism for multiple totalisor adding-subtracting machines. H. L. Lambert. 2,654,587, Oct. 6.

Tractor body frame with supplementary power transmitting and dividing apparatus. H. A. Ferguson, R. C. Boyle, and E. Jedrzykowski. 2,654,255, Oct. 6.
Tractor link. F. D. Sawyer. 2,654,303, Oct. 6.
Trailer, Automobile-carrying. L. M. Francis. 2,654,612, Oct. 6.
Transformer, Air-cooled. E. D. Treanor. 2,654,583, Oct. 6.
Transmission for cooperating driven shafts, Variable stroke. L. S. Tisdale, Sr. 2,654,259, Oct. 6.
Transmission for machine tools, Hydraulic. I. J. Snader. 2,654,291, Oct. 6.
Transmission mechanism, Power. A. J. Lewis. 2,654,260, Oct. 6.
Transmit-receive switch. B. Zarky. 2,654,834, Oct. 6.
Transmitter, Radar beacon. A. V. Lord. 2,654,833, Oct. 6.
Trap: *See*—
Chemical gun trap.
Treating mixture containing materials and apparatus therefor. J. Brabaek. 2,654,159, Oct. 6.
Treating well fluids. W. C. Carlisle and J. H. McCarvell. 2,654,436, Oct. 6.
Treatment of lubricating oil. W. N. La Porte. 2,654,696, Oct. 6.
Treatment of textiles and N-halogenated amine-aldehyde agents therefor. O. P. Cohen and E. H. Rossin. 2,654,720, Oct. 6.
Tri-esters of hydroxy alkyl thio succinic acids. R. O. Zerbe. 2,654,773, Oct. 6.
Trigger mechanism. M. Hansen. 2,654,175, Oct. 6.
Tristage crystallization and hydrolysis process for recovering vanadium phosphorus, and chromium from ferrophosphorus and like materials. L. H. Banning and W. E. Anable. 2,654,655, Oct. 6.
Trolling plate. B. L. Katzung and M. A. Reim. 2,654,336, Oct. 6.
Truck, Oxygen tank. I. A. Kernkamp. 2,654,493, Oct. 6.
Truss head and mounting therefor. F. B. Miller. 2,654,366, Oct. 6.
Tube expanding tool. M. Tomarin. 2,654,414, Oct. 6.
Tube for controlling electric currents, Ionic. P. M. G. Toulon. 2,654,856, Oct. 6.
Tubular reactor with expansion compensator. R. M. Reed. 2,654,657, Oct. 6.
Turbine nozzle guide vane construction. W. Boyd and J. T. Purvis. 2,654,566, Oct. 6.
Twister head driving mechanism for wool spinning machines. F. B. Kelliher. 2,654,212, Oct. 6.
2-chloro-1-phenylpropane, Production of. A. W. Weston. 2,654,791, Oct. 6.
2-ethylamino derivatives of 1,2,3,4-tetrahydronaphtol. J. F. Lontz. 2,654,757, Oct. 6.
2-hydroxy-3,3,3-trichloro-1-aminopropane salt of penicillin. H. W. Rhodehamel, Jr. 2,654,740, Oct. 6.
2-(1,3,3-trimethylbutyl)-5,7,7-trimethyl octanol-1-sulfate. A. A. Pavlic. 2,654,722, Oct. 6.
2-sulfanilamido-5-aminopyrimidine and salts thereof. W. T. Caldwell. 2,654,753, Oct. 6.
2,2-dimethylpropanediol-1,3 di-(2-ethylhexanoate). A. Bell and B. Thompson. 2,654,775, Oct. 6.
Type forming machine. C. C. Rutbell and J. Lusht. 2,654,317, Oct. 6.
Umbrella and manufacturing the same. H. Eichenbaum. 2,654,380, Oct. 6.
Universal bearing. R. T. Reese. 2,654,643, Oct. 6.
Universal sheave block. E. G. Albright, Jr. 2,654,571, Oct. 6.
Unloader attachment for tripe scalders. C. O. Schmidt, Jr. 2,654,458, Oct. 6.
Uranium tetrafluoride, Production of. A. S. Leah and R. B. Mooney. 2,654,654, Oct. 6.
Valve: *See*—
Diaphragm valve.
Load compensated transfer valve.
Packless valve.
Servomotor control valve.
Shuttle valve.
Throttle valve.
Valve. C. K. Huthsing. 2,654,396, Oct. 6.
Valve adjustment, Metering. H. A. Carlson. 2,654,389, Oct. 6.
Valve for continuous boiler blowdown. J. W. Kaye. 2,654,295, Oct. 6.
Valve mechanism. G. W. Allen. 2,654,392, Oct. 6.
Valve mechanism, Control. C. F. Ball and R. T. Hair. 2,654,382, Oct. 6.
Valve mechanism, Control. R. J. Hopkins. 2,654,383, Oct. 6.
Valve with removable seat. R. A. Mueller and R. L. Crain. 2,654,563, Oct. 6.
Valve with self-anchoring seal. T. R. Smith. 2,654,560, Oct. 6.
Vapor detector. C. S. Presenz. 2,654,845, Oct. 6.
Variable-ratio power transmitting apparatus. J. A. Thompson and H. F. Hobbs. 2,654,381, Oct. 6.
Vehicle axle supporting device. J. D. Cochin. 2,654,444, Oct. 6.
Vehicle lift gate. G. A. Duis and G. S. Park. 2,654,491, Oct. 6.
Vehicle suspension, Resilient. B. J. Murphy. 2,654,614, Oct. 6.
Vending machine, Automatic. W. F. Fuhrman. 2,654,505, Oct. 6.
Vertical baling press. E. J. J. Jonsson. 2,654,309, Oct. 6.
Viewing device, Transparency. C. and G. B. Christensen. 2,654,173, Oct. 6.
Walker for invalids. P. Maniscalco. 2,654,416, Oct. 6.
Warning light and stationary headlight, Combination. A. C. Heehler. 2,654,875, Oct. 6.
Washing and extracting machine having a flexible diaphragm. G. C. Graham. 2,654,240, Oct. 6.
Washing machine, Ball bearing. G. D. Beaudry, J. T. Longdon, and T. R. Brink. 2,654,378, Oct. 6.
Washing machine electrical control system, Automatic. S. B. Welch and E. G. Olthuis. 2,654,239, Oct. 6.
Washing machine, Undercounter. G. H. Wotring. 2,654,386, Oct. 6.
Watch setter, Universal. F. Galley. 2,654,213, Oct. 6.
Water control for disposal units. J. H. Powers. 2,654,540, Oct. 6.
Watering device, Poultry. J. W. Goff. 2,654,346, Oct. 6.
Wave generator. E. R. McCoppin. 2,654,843, Oct. 6.
Wax flaker. C. L. Hall. 2,654,123, Oct. 6.
Way construction. E. P. Bullard. 2,654,640, Oct. 6.
Web-renewing mechanism. T. R. Bennett. 2,654,545, Oct. 6.
Web severing device. C. P. Feldhausen, R. M. Lommen, and W. H. Rouse. 2,654,431, Oct. 6.
Weighing and separating device, Automatic. H. C. Kegg. 2,654,558, Oct. 6.
Welded blade structures, Making. E. D. Hoesch and R. G. Matters. 2,654,143, Oct. 6.
Welding, Method of and apparatus for. E. B. Neff. 2,654,129, Oct. 6.
Well cementing shoe. J. G. Oliver. 2,654,435, Oct. 6.
Wheatstone bridge testing arrangement. R. M. M. Oberman and A. Snijders. 2,654,837, Oct. 6.
Wheel and spring suspension, Tandem. L. M. Francis. 2,654,615, Oct. 6.
Wheel cover. G. A. Lyon. 2,654,637, Oct. 6.
Wheel traction device, Automobile. O. F. Caloiaro. 2,654,412, Oct. 6.
Whistle, Bird. J. H. Bacon. 2,654,179, Oct. 6.
Winder machine. L. Hornbostel. 2,654,546, Oct. 6.
Window, Storm. G. W. Day. 2,654,128, Oct. 6.
Wire-rope greaser. M. A. Yakopatz. 2,654,442, Oct. 6.
Wrench for use with turnbuckles, Ratchet. S. A. Rasmussen. 2,654,281, Oct. 6.

CLASSIFICATION OF PATENTS

ISSUED OCTOBER 6, 1953

NOTE.—First number—class, second number—subclass, third number—patent number.

1— 3: 2,654,087
49: 2,654,088
2— 10: 2,654,089
14: 2,654,090
30: 2,654,091
50: 2,654,092
80: 2,654,093
93: 2,654,094
153: 2,654,095
268: 2,654,096
4— 291: 2,654,097
5— 2: 2,654,098
47: 2,654,099
244: 2,654,100
287: 2,654,101
8— 4: 2,654,652
9— 6: 2,654,102
12— 24.5: 2,654,103
36: 2,654,104
57.6: 2,654,105
15— 79: 2,654,106
128: 2,654,107
132.7: 2,654,108
140.2: 2,654,109
140.4: 2,654,110
227: 2,654,111
16— 35: 2,654,112
42: 2,654,113
93: 2,654,114
125: 2,654,115
128.1: 2,654,116
135: 2,654,117
145: 2,654,118
17— 4: 2,654,119
7: 2,654,120
32: 2,654,121
45: 2,654,122
18— 1: 2,654,123
5: 2,654,124
47.5: 2,654,125
19— 58: 2,654,126
20— 42: 2,654,127
55: 2,654,128
22— 116: 2,654,129
23— 14.5: 2,654,653
2,654,654
107: 2,654,655
267: 2,654,656
277: 2,654,657
283: 2,654,658
288: 2,654,659
24— 10: 2,654,130
73: 2,654,131
81: 2,654,132
109: 2,654,133
137: 2,654,134
201: 2,654,135
25— 156: 2,654,136
158: 2,654,137
28— 44: 2,654,138
71.6: 2,654,139
29— 1.23: 2,654,140
24.5: 2,654,141
155.56: 2,654,142
156.8: 2,654,143
160.4: 2,654,144
182.8: 2,654,145
199: 2,654,146
289: 2,654,147
30— 32: 2,654,148
64: 2,654,149
2,654,150
31— 47: 2,654,151
33— 46: 2,654,152
112: 2,654,153
131: 2,654,154
137: 2,654,155
172: 2,654,156
178: 2,654,157
215: 2,654,158
34— 25: 2,654,159
45: 2,654,160
99: 2,654,161
204: 2,654,162
35— 9: 2,654,163
33: 2,654,164
37— 126: 2,654,165
38— 25: 2,654,166
77: 2,654,167
40— 2: 2,654,168
3: 2,654,169
4: 2,654,170
2,654,171
64: 2,654,172
152.2: 2,654,173
42— 66: 2,654,174
69: 2,654,175
43— 17: 2,654,176
44.88: 2,654,177
84: 2,654,178
44— 68: 2,654,660
46— 44: 2,654,179
47— 33: 2,654,180
61: P.P.1.219
48— 197: 2,654,661
2,654,662
2,654,663
206: 2,654,664
2,654,665
49— 1: 2,654,181
17: 2,654,182
2,654,183
55: 2,654,184
2,654,185
2,654,186
51— 36: 2,654,187
67: 2,654,188
101: 2,654,189
170: 2,654,190
185: 2,654,191
194: 2,654,192
197: 2,654,193
198: 2,654,194
52— 11: 2,654,666
53— 10: 2,654,195
45: 2,654,196
55— 36: 2,654,197
81: 2,654,198
118: 2,654,199
56— 26.5: 2,654,200
29: 2,654,201
41: 2,654,202
2,654,203
2,654,204
121.46: 2,654,205
208: 2,654,206
209: 2,654,207
252: 2,654,208
364: 2,654,209
57—58.55: 2,654,210
2,654,211
93: 2,654,212
58— 43: 2,654,213
116: 2,654,214
60— 35.6: 2,654,215
29.03: 2,654,216
39.17: 2,654,217
39.46: 2,654,218
39.65: 2,654,219
39.66: 2,654,220
52: 2,654,221
2,654,222
54: 2,654,223
54.6: 2,654,224
61— 29: 2,654,225
62— 2: 2,654,226
3: 2,654,227
4: 2,654,228
5: 2,654,229
108.5: 2,654,230
116: 2,654,231
140: 2,654,232
2,654,233
64— 6: 2,654,234
14: 2,654,235
66— 86: 2,654,236
114: 2,654,237
163: 2,654,238
68— 12: 2,654,239
21: 2,654,240
70— 264: 2,654,241
71— 2.3: 2,654,667
2.5: 2,654,668
73— 29: 2,654,242
53: 2,654,243
79: 2,654,244
210: 2,654,245
217: 2,654,246
272: 2,654,247
274: 2,654,248
424: 2,654,249
425.4: 2,654,250
2,654,251
426: 2,654,252
431: 2,654,253
74— 5.1: 2,654,254
15.63: 2,654,255
55: 2,654,256
57: 2,654,257
99: 2,654,258
125.5: 2,654,259
203: 2,654,260
336: 2,654,261
395: 2,654,262
472: 2,654,263
479: 2,654,264
499: 2,654,265
567: 2,654,266
665: 2,654,267
745: 2,654,268
751: 2,654,269
75— 33: 2,654,669
68: 2,654,670
77— 32.3: 2,654,270
2,654,271
78— 46: 2,654,272
80— 5.1: 2,654,273
2,654,274
2,654,275
2,654,276
25: 2,654,277
32: 2,654,278
81— 15: 2,654,279
40: 2,654,280
60: 2,654,281
86: 2,654,282
84— 312: 2,654,283
85— 47: 2,654,284
86— 21: 2,654,285
88— 1: 2,654,286
14: 2,654,287
2,654,288
24: 2,654,289
55: 2,654,290
90— 22: 2,654,291
24: 2,654,292
33: 2,654,293
92— 21: 2,654,671
26: 2,654,294
2,654,295
40: 2,654,296
94— 8: 2,654,297
45: 2,654,298
95— 11.5: 2,654,299
75: 2,654,300
97—46.03: 2,654,301
46.31: 2,654,302
47.62: 2,654,303
2,654,304
98— 40: 2,654,305
99— 90: 2,654,672
303: 2,654,306
421: 2,654,307
100— 50: 2,654,308
228: 2,654,309
269: 2,654,310
101— 4: 2,654,311
35: 2,654,312
38: 2,654,313
148: 2,654,314
211: 2,654,315
282: 2,654,316
401.5: 2,654,317
102— 41: 2,654,318
44: 2,654,319
49: 2,654,320
63: 2,654,321
103— 5: 2,654,322
30: 2,654,323
53: 2,654,324
126: 2,654,325
102— 170: 2,654,326
105— 382: 2,654,327
106— 22: 2,654,673
90: 2,654,674
108— 22: 2,654,328
110— 22: 2,654,329
24: 2,654,330
104: 2,654,331
113— 1: 2,654,332
116: 2,654,333
114— 23: 2,654,334
153: 2,654,335
115— .5: 2,654,336
116— 34: 2,654,337
114: 2,654,338
124: 2,654,339
117—33.5: 2,654,675
103: 2,654,676
138.5: 2,654,677
138.8: 2,654,678
2,654,679
2,654,680
161: 2,654,681
118— 253: 2,654,340
255: 2,654,341
267: 2,654,342
317: 2,654,343
119— 16: 2,654,344
37: 2,654,345
81: 2,654,346
121— 41: 2,654,347
2,654,348
46.5: 2,654,349
122— 4: 2,654,320
459: 2,654,351
494: 2,654,352
2,654,353
123—41.05: 2,654,354
41.74: 2,654,355
90: 2,654,356
193: 2,654,357
125— 23: 2,654,358
126— 39: 2,654,359
99: 2,654,360
101: 2,654,361
113: 2,654,362
285: 2,654,363
127— 17: 2,654,364
128— 80: 2,654,365
107: 2,654,366
287: 2,654,367
352: 2,654,368
131— 105: 2,654,369
213: 2,654,370
132— 33: 2,654,371
38: 2,654,372
40: 2,654,373
45: 2,654,374
88.5: 2,654,375
133— 6: 2,654,376
134— 23: 2,654,682
93: 2,654,377
112: 2,654,378
185: 2,654,379
135— 33: 2,654,380
136— 7: 2,654,794
120: 2,654,795
137— 56: 2,654,381
102: 2,654,382
2,654,383
118: 2,654,384
197: 2,654,385
216: 2,654,386
251: 2,654,387
312: 2,654,388
605: 2,654,389
606: 2,654,390
620: 2,654,391
622: 2,654,392
657: 2,654,393
688: 2,654,394
710: 2,654,395
750: 2,654,396
139— 56: 2,654,397
124: 2,654,398
127: 2,654,399
243: 2,654,400
140—71.5: 2,654,401
109: 2,654,402
115: 2,654,403
143— 32: 2,654,404
162: 2,654,405
144— 2: 2,654,406
32: 2,654,407
145— 1: 2,654,408
148—31.5: 2,654,663
150— 28: 2,654,409
151— 25: 2,654,410
41.75: 2,654,411
152— 226: 2,654,412
153— 80: 2,654,413
80.5: 2,654,414
154— 24: 2,654,415
43: 2,654,684
2,654,685
45.9: 2,654,686
98: 2,654,687
155— 24: 2,654,416
117: 2,654,417
130: 2,654,418
142: 2,654,419
160: 2,654,420
188: 2,654,421
158— 28: 2,654,422
91: 2,654,423
160— 58: 2,654,424
62: 2,654,425
168: 2,654,426
172: 2,654,427
164— 31: 2,654,428
52: 2,654,429
60: 2,654,430
90: 2,654,431
113: 2,654,432
166— 1: 2,654,433
2,654,434
4: 2,654,435
21: 2,654,436
167— 30: 2,654,688
33: 2,654,689
74.6: 2,654,690
174— 44: 2,654,796
178— 2: 2,654,797
5.4: 2,654,798
7.5: 2,654,799
2,654,800
66: 2,654,801
69.5: 2,654,802
70: 2,654,803
179— 2.5: 2,654,804
2,654,805
15: 2,654,806
18: 2,654,807
100.2: 2,654,808
2,654,809
100.3: 2,654,810
146: 2,654,811
181— 60: 2,654,437
183— 7: 2,654,438
44: 2,654,440
51: 2,654,439
184— 11: 2,654,441
17: 2,654,442
187— 8.41: 2,654,443
8.43: 2,654,444
188— 76: 2,654,445
79.5: 2,654,446
200: 2,654,447
264: 2,654,448
189— 34: 2,654,449
46: 2,654,450
76: 2,654,451
78: 2,654,452
190— 26: 2,654,453
192— 21.5: 2,654,454
22: 2,654,455
108: 2,654,456
124: 2,654,457
193— 18: 2,654,458
195— 71: 2,654,691
196— 18: 2,654,692
2,654,693
50: 2,654,694
53: 2,654,695
198— 78: 2,654,696
150: 2,654,697
197— 1: 2,654,459
141: 2,654,460
165: 2,654,461
198— 19: 2,654,462
25: 2,654,463
189: 2,654,464
220: 2,654,465
2,654,466
2,654,467
200— 18: 2,654,812
116: 2,654,813
126: 2,654,814
144: 2,654,815
2,654,816
172: 2,654,817
201— 63: 2,654,818
2,654,819
67: 2,654,820
202— 9: 2,654,698
28: 2,654,699
189: 2,654,700
204— 33: 2,654,701
46: 2,654,702
49: 2,654,703
2,654,704
2,654,705
153: 2,654,706
297: 2,654,707
206— 18: 2,654,468
45.11: 2,654,469
45.14: 2,654,470
46: 2,654,471
65: 2,654,472
2,654,473
2,654,474
2,654,475
79: 2,654,476
209— 2: 2,654,477
121: 2,654,478
173: 2,654,479
215: 2,654,480
291: 2,654,481
210— 167: 2,654,482
160: 2,654,483
211— 1.3: 2,654,484
75: 2,654,485
103: 2,654,486
148: 2,654,487
214— 15: 2,654,488
16: 2,654,489
64.2: 2,654,490
77: 2,654,491
85: 2,654,492
374: 2,654,493
510: 2,654,494
216— 2: 2,654,495
2,654,496
54: 2,654,497
217— 14: 2,654,498
66: 2,654,499
219— 1: 2,654,821
10: 2,654,822
19: 2,654,823
20: 2,654,824
37: 2,654,825
39: 2,654,826
220— 15: 2,654,500
20.5: 2,654,501
24: 2,654,502
35: 2,654,503
85: 2,654,504
222— 2: 2,654,505
19: 2,654,506
86: 2,654,507
112: 2,654,508
135: 2,654,509
170: 2,654,510
223— 37: 2,654,511
68: 2,654,512
109: 2,654,513
224— 5: 2,654,514
42.1: 2,654,515
2,654,516
226— 46.4: 2,654,517
55: 2,654,518

226— 59: 2,654,519
80: 2,654,520
82: 2,654,521
96: 2,654,522
116: 2,654,523
228— 8: 2,654,524
229— 17: 2,654,525
33: 2,654,526
56: 2,654,527
230— 96: 2,654,528
134: 2,654,529
143: 2,654,530
172: 2,654,531
205: 2,654,532
259: 2,654,533
232— 34: 2,654,534
233— 15: 2,654,535
20: 2,654,536
235—60.31: 2,654,537
61: 2,654,538
62: 2,654,539
240— 1: 2,654,827
8.18: 2,654,828
32: 2,654,829
78: 2,654,830
241— 36: 2,654,540
163: 2,654,541
242— 46.2: 2,654,542
55: 2,654,543
55.5: 2,654,544
58: 2,654,545
66: 2,654,546
90: 2,654,547
2,654,548
119: 2,654,549
124: 2,654,550
128: 2,654,551
244— 52: 2,654,552
135: 2,654,553
246— 50: 2,654,831
248— 35: 2,654,554
48.2: 2,654,555
105: 2,654,556
249— 2: 2,654,557
28: 2,654,558
250— 13: 2,654,832
2,654,833

250— 13: 2,654,834
20: 2,654,835
2,654,836
27: 2,654,837
2,654,838
2,654,839
2,654,840
2,654,841
33: 2,654,842
36: 2,654,843
2,654,844
43.5: 2,654,845
251— 24: 2,654,559
27: 2,654,560
31: 2,654,561
34: 2,654,562
62: 2,654,563
118: 2,654,564
252— 33.6: 2,654,708
2,654,709
37.2: 2,654,710
46.6: 2,654,711
2,654,712
301.2: 2,654,713
332: 2,654,714
253—39.15: 2,654,565
78: 2,654,566
254— 30: 2,654,567
93: 2,654,568
100: 2,654,569
169: 2,654,570
194: 2,654,571
255— 4.8: 2,654,572
64: 2,654,573
76: 2,654,574
2,654,575
2,654,576
304: 2,654,577
308: 2,654,578
256— 21: 2,654,579
257— 3: 2,654,580
24: 2,654,581
172: 2,654,582
191: 2,654,583
260— 15: 2,654,715
17: 2,654,716
23: 2,654,717

260— 23: 2,654,718
2,654,719
29.4: 2,654,720
30.8: 2,654,721
31.2: 2,654,722
31.4: 2,654,723
63: 2,654,724
77.5: 2,654,725
78.4: 2,654,726
78.5: 2,654,727
2,654,728
85.5: 2,654,729
87.7: 2,654,730
88.7: 2,654,731
91.1: 2,654,732
125: 2,654,733
209.5: 2,654,734
211.3: 2,654,735
233.5: 2,654,736
239: 2,654,737
2,654,738
239.1: 2,654,739
2,654,740
2,654,741
2,654,742
2,654,743
2,654,744
2,654,745
2,654,746
2,654,747
2,654,748
2,654,749
2,654,750
2,654,751
2,654,752
239.75: 2,654,753
247.2: 2,654,754
251.5: 2,654,755
285: 2,654,756
294.7: 2,654,757
295: 2,654,758
295.5: 2,654,759
302: 2,654,760
309: 2,654,761
2,654,762
309.7: 2,654,763
326.5: 2,654,764

260—397.5: 2,654,765
409: 2,654,766
410.9: 2,654,767
415: 2,654,768
429: 2,654,769
2,654,770
448.2: 2,654,771
459: 2,654,772
470: 2,654,773
474: 2,654,774
488: 2,654,775
501: 2,654,776
504: 2,654,777
520: 2,654,778
534: 2,654,779
543: 2,654,780
545: 2,654,781
2,654,782
2,654,783
2,654,784
567.6: 2,654,785
615: 2,654,786
2,654,787
644: 2,654,788
648: 2,654,789
649: 2,654,790
651: 2,654,791
674: 2,654,792
771: 2,654,793
261— 11: 2,654,584
19: 2,654,585
262— 19: 2,654,586
263— 3: 2,654,587
28: 2,654,588
29: 2,654,589
30: 2,654,590
32: 2,654,591
33: 2,654,592
40: 2,654,593
53: 2,654,594
1: 2,654,595
264— 5: 2,654,596
265— 47: 2,654,597
267— 2.4: 2,654,598
271— 2.6: 2,654,599
18: 2,654,600
62: 2,654,601

271— 62: 2,654,602
2,654,603
85: 2,654,604
273— 53: 2,654,605
82: 2,654,606
139: 2,654,607
169: 2,654,608
274— 11: 2,654,609
279— 6: 2,654,610
56: 2,654,611
280—33.05: 2,654,612
33.15: 2,654,613
104: 2,654,614
104.5: 2,654,615
150: 2,654,616
153: 2,654,617
285— 6.5: Re.23,720
108: 2,654,618
198: 2,654,619
287— 20: 2,654,620
53: 2,654,621
291— 3: 2,654,622
292— 30: 2,654,623
308: 2,654,624
294— 33: 2,654,625
50.8: 2,654,626
65.5: 2,654,627
87.28: 2,654,628
101: 2,654,629
104: 2,654,630
2,654,631
116: 2,654,632
296— 16: 2,654,633
28: 2,654,634
299— 18: 2,654,635
97: 2,654,636
301— 37: 2,654,637
304— 28: 2,654,638
305— 8: 2,654,639
308— 3: 2,654,640
15: 2,654,641
59: 2,654,642
72: 2,654,643
187.2: 2,654,644
189: 2,654,645
309— 33: 2,654,646

310— 49: 2,654,846
68: 2,654,847
86: 2,654,848
99: 2,654,849
311— 89: 2,654,647
106: 2,654,648
108: 2,654,649
312— 30: 2,654,850
313— 38: 2,654,850
62: 2,654,851
65: 2,654,852
315— 10: 2,654,853
26: 2,654,854
27: 2,654,855
146: 2,654,856
317— 62: 2,654,857
128: 2,654,858
318— 29: 2,654,859
490: 2,654,860
322— 76: 2,654,861
324— 30: 2,654,862
58: 2,654,863
61: 2,654,864
106: 2,654,865
332— 56: 2,654,866
333— 9: 2,654,867
33: 2,654,868
339— 8: 2,654,869
55: 2,654,870
66: 2,654,871
75: 2,654,872
213: 2,654,873
340— 15: 2,654,874
49: 2,654,875
61: 2,654,876
66: Re.23,719
146: 2,654,877
165: 2,654,878
239: 2,654,879
367: 2,654,880
343— 5: 2,654,881
7: 2,654,882
7.3: 2,654,883
9: 2,654,884
200: 2,654,885
346— 37: 2,654,651

CLASSIFICATION OF DESIGNS

D 3—19: Des. 170,542
26: Des. 170,546
D 4— 2: Des. 170,530
3: Des. 170,517
Des. 170,522
D 7— 4: Des. 170,543
7: Des. 170,552
D 9— 2: Des. 170,547

D 9— 2: Des. 170,559
D10— 9: Des. 170,529
D16— 2. Des. 170,533
D17— 7: Des 170,525
D22— 2: Des. 170,537
D23— 1: Des. 170,540
D25— 1: Des. 170,563
D26—10: Des. 170,555

D26—14: Des. 170,545
D33—14: Des. 170,550
19: Des. 170,556
D34— 5: Des. 170,531
Des. 170,541
11: Des. 170,521
15: Des. 170,516
D36— 2: Des. 170,551

D37— 1: Des. 170,534
D44— 1: Des. 170,561
Des. 170,562
D45— 9: Des. 170,518
Des. 170,549
10: Des. 170,526
Des. 170,527
D47— 7: Des. 170,548

D48—20: Des. 170,553
27: Des. 170,536
D54—14: Des. 170,560
D56— 4: Des. 170,520
Des. 170,524
D59— 2: Des. 170,528
D74— 1: Des. 170,557
Des. 170,558

D74—17: Des. 170,539
21: Des. 170,554
D80— 8: Des. 170,544
9: Des. 170,523
D83— 1: Des. 170,538
D86—10: Des. 170,519
D87— 3: Des. 170,532
D92—17: Des. 170,535

U. S. GOVERNMENT PRINTING OFFICE: 0—1953

DECISIONS IN PATENT AND TRADE-MARK CASES

In the United States Patent Office Before the Board of Appeals

EX PARTE CHARLES F. BALL AND RICHARD T. HAIR

No. 89,181. June 30, 1953.

1. CLAIMS—FUNCTIONAL—SECTION 112 OF PATENT ACT OF 1952 INTERPRETED.

"It is agreed that some measure of greater liberality in the use of functional expressions in the definition of elements in proper combination claims is authorized by Section 112, than has been permitted by some of the stricter decisions of the courts in the past."

2. SAME—SAME—SAME.

Where the function specified "results in a characteristic operation of the system as a whole which • • • patentably distinguishes the combination claimed from the reference system and it is by virtue of the novel coaction between the • • • means and the remaining elements of the system that the new result is realized," *Held* that such claims sufficiently specify the novel structure under Section 112 of the Patent Act of 1952.

3. SAME—SAME—SAME.

"The third paragraph of Section 112 does not authorize allowance of claims where the means and the specified function are couched in such broad language as to ignore completely the condition essential to the practice of appellants' concept • • •."

4. SAME—SAME—SAME.

Held that a claim which does not include any "means" for performing the function which is indispensible to the accomplishment of the improved result recited, certainly would not meet the requirements of the second paragraph of Section 112 of the statute requiring that appellants particularly point out the subject matter which they regard as their invention.

5. SAME—SAME—SAME—FUNCTION STATED IN NEGATIVE TERMS NOT PATENTABLE.

Held that, where a claim in effect states that fluid discharged by the fluid pump is *not* passed through a certain valve, "This negative limitation of the valve in terms of a condition to which it is not subject presents nothing of patentable significance."

6. SAME—SAME—SAME—SAME.

"The characterization of an element in terms of an operation or result with which it is not concerned does not particularly point out the subject matter which appellants regard as their invention."

7. PATENTABILITY—PARTICULAR SUBJECT MATTER—HYDRAULIC SYSTEM FOR CABLE REEL.

Certain claims to a hydraulic system for operating a cable reel on electrically propelled mine vehicles *Held* to define invention over the prior art within the terms of Section 112 of the Patent Act of 1952 and certain other claims *Held* properly rejected as not embraced by the statute.

APPEAL from Examiner.

AFFIRMED as to claims 3, 15, 39, and 41.

REVERSED as to claims 1, 2, 4, 5, 6, 7 and 8, 12, 13, 14, and 40.

Mr. Louis A. Maxson, for appellants.

Before Robert C. Watson, Commissioner and Taylor, McCann, Wolffe, Geniesse, Federico, Crocker, and Duncombe, *Examiners-in-Chief*

This is a new decision in view of appellants' request for reconsideration of the decision of the Board of Appeals dated October 24, 1952 which request, together with appellants' request for a rehearing, has been granted in the instant application to permit further consideration by an augmented board of appealed claims 1 to 8, 12 to 15, and 39 to 41 under the provisions of Section 112, Title 35 U. S. C. (Public Law 593, effective January 1, 1953). Claims 9, 10, 11 and 16 to 24 stand allowed. By an amendment filed May 22, 1953, appellants have presented claims 42 to 46 but since these claims have not been considered by the Primary Examiner, they are not properly before us and will not be treated in this decision.

Claims 1, 3, and 15 are illustrative of the appealed claims and read as follows:

1. In a cable reeling mechanism adapted to supply power to a moving vehicle, a winding reel adapted to have a cable wound thereon, a fluid motor for driving said reel in a direction to wind cable thereon, a fluid pump, and a pressure line connecting said pump to said motor, said motor being rotatable by said winding reel as a pump when cable is pulled off of the reel, means for imposing on said motor when it is driven as a pump a back pressure, substantial, but substantially lower than the pressure applied by said pump to it when it is acting as a motor and driving said reel, and automatically operative means for substantially completely relieving the back pressure on said pump when said motor is acting as a pump.

3. In a cable reeling mechanism adapted to supply power to a moving vehicle, a winding reel adapted to have a cable wound thereon, a fluid motor for driving said reel in a direction to wind cable thereon, a fluid pump, and a pressure line connecting said pump to said motor, said motor being rotatable by said winding reel as a pump when cable is pulled off of the reel, and means for automatically imposing on said motor when it is driven as a pump and on said fluid pump concurrently substantially different back pressures when said vehicle is moving in a direction to require the pulling of cable off of the reel.

15. In combination, a winding reel mounted upon a vehicle for movement therewith and adapted to have a

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cable wound thereon and to wind in said cable or to have the same drawn off of said reel depending upon the direction of vehicle movement, a motor-pump device connected to said reel to drive the latter to effect winding of said cable and to be driven by said reel as cable is pulled off of the latter, a source of hydraulic fluid, a pump connected to said source to draw fluid therefrom and to supply fluid to drive said motor-pump device as a motor to effect reel drive, and means governed by the pressure built up by the operation of said motor-pump device as a pump for automatically connecting the discharge of said pump to said source and imposing on said motor-pump device a back pressure which is independent of the discharge pressure of said pump, whenever said reel drives said motor-pump device as a pump.

The reference relied on is: Slomer, 2,395,302, Feb. 19, 1946.

The appealed claims relate to a hydraulic system for operating a cable reel on electrically propelled mine vehicles which system includes a continuously driven fluid pump for supplying a fluid medium under pressure to a fluid motor connected to the reel for winding an electrical power supply cable on the reel when the vehicle moves toward the remote end of the cable and for maintaining the proper tension on the cable when the vehicle is stationary. When the vehicle moves in a direction such as to unwind the cable, the fluid motor is driven by the cable reel and functions as a pump to impose a load on the reel. The reel motor thus functions in the dual capacity of a motor and a pump and will be referred to hereinafter as the motor-pump of the system. Valve mechanism is provided in the fluid system between the continuously driven fluid pump and the motor-pump and includes high and low pressure relief valves operative respectively to determine the pressure applied to the motor-pump device when the same is operating as a motor to wind on cable and to determine the back pressure imposed on the motor-pump device when the cable is being drawn off and the motor-pump device is operating as a pump. A spring loaded shifter valve establishes fluid connections which place the high pressure relief valve in control while the motor-pump device is operating as a motor to wind in cable. This shifter valve is actuated by fluid pressure developed by the motor-pump when the same is acting as a pump to render the low pressure relief valve effective to load the motor-pump when cable is being pulled off of the reel and to relieve the continuously driven fluid pump of substantially all back pressure during this phase of the operation. There is no controversy as to the mode of operation of appellants' system and accordingly a more detailed description of the apparatus is believed unnecessary, such apparatus having been described in detail in the original brief, appellants' memorandum on rehearing and in Appendix 1 attached thereto. There are two features of appellants' disclosure which should be emphasized in connection with the appealed claims, namely, (1) the provision of a substantially free passage for the fluid discharged by the fluid pump when the motor-pump is operating as a pump with a substantial back pressure sufficient to maintain the proper tension on the cable and (2) the actuation of the shifter valve by fluid discharged by the motor-pump when this device acts as a pump.

The appealed claims have been rejected as unpatentable over the patent to Slomer. This reference discloses a fluid operated cable reeling mechanism for supplying power to a moving vehicle, such mechanism including a fluid motor 12 connected to a cable reel 10 and a fluid pump 15 for supplying fluid under high pressure to fluid motor 12 through a high pressure line 16 for operating the fluid motor to wind the cable 11 on the reel. Pressure is relieved from the high pressure line 16 through a relief valve 29 connected with the high pressure line by a pipe 30. During the unwinding operation, the cable reel 10 will drive the motor as a pump and it is stated by the patentee that when this action takes place, a suction will be created through pipe 59 which will operate a piston valve 66 against the action of spring 67. When the motor 12 is operating as a pump, fluid will pass from the storage tank 31 through pipe 65, a groove 650 in the block for piston valve 66, a passageway 68 in the valve block, thence by check valve 69 through a passageway 70, pipe 59 to the motor-pump device 12. Fluid discharged by the motor-pump device when it is operway 75 and return pipe 57. When the motor is operating as a pump, the continuously driven main fluid pump will discharge fluid to the tank 31 through the last defined path commencing with pipe 30. A detailed description of the Slomer system appears ating as a pump will return to the storage tank 31 through pipe 30, passageway 58, valve 66, passagein the original brief, together with prints prepared by appellants showing the operation of the motor-pump device 12, both as a motor and as a pump. A further description of the Slomer system appears in appellants' memorandum on rehearing and in Appendix 2 attached thereto. An important consideration in connection with the Slomer disclosure is that when the motor-pump device 12 operates as a pump, it discharges fluid through substantially the same path as is then provided for the discharge of fluid from the continuously driven fluid pump 18 whereupon there will be no substantial difference in the back pressures imposed upon the motor-pump device 12 when acting as a pump and upon the fluid pump 18 during this phase of the operation. Another feature of the Slomer disclosure which should be noted is that the shifter valve is actuated by atmospheric pressure against the bias of spring 67 rather than by the positive action of fluid discharged by the motor-pump 12 when this device is operating as a pump.

As indicated in the original decision, the Examiner admits that the disclosed structure of the present application is specifically different from that of the Slomer patent but takes the position that the actual structure recited in each of the rejected claims is met by the reference patent and that any differences which exist are only functionally expressed in the claims. In the original decision, no reversible error was found in this conclusion for reasons which are set forth therein.

Appellants contend that each of the appealed

claims distinguishes from the prior art in the recitation of a means or an elemental structure for performing a specified function that is not contemplated by the cited reference and that these claims therefore are properly allowable under the provisions of the third paragraph of Section 112, 35 U. S. C., which reads as follows:

"An element in a claim for a combination may be expressed as a means or step for performing a specified function without the recital of structure, material, or acts in support thereof, and such claim shall be construed to cover the corresponding structure, material, or acts described in the specification and equivalents thereof."

In view of the fact that this is a newly stated provision of the patent laws, appellants have presented the material resulting from an extensive investigation as to its legislative history. However, in so far as may be applicable here, the language of Section 112 is thought to be so clear as not to require any resort to extrinsic evidence in connection with its interpretation. [1] It is agreed that some measure of greater liberality in the use of functional expressions in the definition of elements in proper combination claims is authorized by Section 112, than has been permitted by some of the stricter decisions of the courts in the past.

Claims 1 and 5 call for means for substantially completely or wholly relieving the back pressure imposed on the fluid pump when the motor-pump is acting as a pump while the cable reel is unwinding and claims 12, 13, and 14 recite means for connecting the discharge of the fluid pump freely to the fluid source during this phase of the operation. In the corresponding operation of the Slomer system, fluid discharged by the fluid pump 18 must flow through pipe 16 to pipe 30 and thence through the same path which imposes a back pressure on the fluid discharged from the motor-pump 12. Claims 1, 5, 12, 13, and 14 thus define an essential feature of appellants' combination, namely, the shifter valve unit and its associated fluid passages and connections as a means for performing a specified function and this function, as set forth, is distinctly unlike any function which is or could possibly be performed by the apparatus of Slomer. Improved results are realized by appellants when the novel functions set forth in the above claims are performed by the means recited, as for example power loss is reduced and needless heating of the fluid medium is eliminated when the fluid pump is not called upon to deliver fluid under pressure to the reel motor. In the original decision, it was held that the means in question presented nothing in the manner of particular structure upon which patentability could be predicated and the rejection of the above claims was sustained. [2] However, under the provisions of Section 112, supra, effective subsequent to the original decision, the "means for substantially completely relieving the back pressure on said pump when said motor is acting as a pump," as set forth in claim 1 and similar language in claims 5, 12, 13, and 14 is now considered to sufficiently specify the novel structure described in the specification, namely, the shifter valve unit and fluid connections which perform the specified function in such a manner as to establish a different cooperation between the valve and the other elements of the combination from that which exists with respect to the Slomer valve in a similar environment. This action of appellants' shifter valve in substantially completely relieving the back pressure imposed on the fluid pump when the motor-pump is acting as a pump results in a characteristic operation of the system as a whole which in our opinion patentably distinguishes the combination claimed from the reference system and it is by virtue of the novel coaction between the valve means and the remaining elements of the system that the new result is realized.

Claims 2, 4, 6, 7, 8, and 40 are concerned primarily with the operation of the valve mechanism which determines the fluid pressures in the system under different operating conditions. In language of varying scope these claims conclude with a recitation of means controlled or operated by fluid discharged by the motor-pump device when operating as a pump for effecting changes in the fluid pressures. In the original decision, it was held that the last recited means in each of the above claims added no specific structure and in certain instances it was indicated that such means found substantial response in the Slomer system where fluid discharged by the motor-pump 12, when that device acts as a pump, results in actuation of the piston valve 66 by atmospheric pressure. However, we now consider that the above noted means and its function as stated in each of these claims adequately characterizes the corresponding structure described in the specification for operating the valve element in a novel manner and we attach particular significance to the qualification that the valve is actuated by fluid discharged by the motor-pump device.

In the claims so far considered in this decision, an important feature of a combination is expressed as a means or a named part of conventional form for performing a specified function and in each instance this has been in connection with the novel aspect of the combination. We are satisfied that the specified functions are sufficiently described in these claims to particularly point out the subject matter which appellants regard as their invention and that these several statements of function, each appended as it is to a structural "means," sufficiently point out the differences between appellants' system and the system of the Slomer patent. Under the circumstances noted, we are of the opinion that claims 1, 2, 4, 5, 6, 7 and 8, 12, 13, 14, and 40 avoid the prior art and comply with Section 112, Title 35 U. S. C. not only in form of expression as provided in the third paragraph thereof but also as to the requirement of the second paragraph that they particularly point out and distinctly claim the subject matter which appellants regard as their invention. Accordingly, the rejection of these claims is no longer sustained.

The remaining claims on appeal, namely, claims

3, 15, 39, and 41 do not, in our opinion, point out the novelty of the disclosed subject matter with the particularity and distinctness required in the second paragraph of Section 112, Title 35 U. S. C. which reads as follows:

"The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention."

In claim 3, for example, the sole distinction over the reference is expressed as

"and means for automatically imposing on said motor when it is driven as a pump and on said fluid pump concurrently substantially different back pressures when said vehicle is moving in a direction to require the pulling of cable off of the reel."

In the original decision, no patentable significance was placed on "different back pressures" in the absence of the recitation of structure for establishing such pressures. The last quoted language of claim 3 obviously would include an operating condition where a greater back pressure is imposed on the fluid pump than on the motor-pump and this would be contrary to the improved mode of operation urged by appellants. [3] The third paragraph of Section 112 does not authorize allowance of claims where the means and the specified function are couched in such broad language as to ignore completely the condition essential to the practice of appellants' concept, i. e., the lower back pressure on the pump than on the motor-pump when the latter is operating as a pump. [4] It is not stated in claim 3 that there is present any "means" for accomplishing this essential function, indispensable to the accomplishment of the improved result recited. When Section 112 is considered in its entirety, this type of claim certainly would not meet the requirements of the second paragraph.

Claim 39 further qualifies the concluding means of claim 3 as "including a pressure relief valve through which fluid displaced by said motor when it is driven as a pump * * * is passed." This corresponds in structure and function to the valve 66 of the Slomer system and thus adds nothing in a patentable sense. [5] Claim 39 also states in effect that fluid discharged by the fluid pump is not passed through the last mentioned pressure relief valve but as noted in the original decision, this negative definition of the valve in terms of a condition to which it is not subject presents nothing of patentable significance. [6] The characterization of an element in terms of an operation or result with which it is not concerned does not particularly point out the subject matter which appellants regard as their invention.

Claims 15 and 41 call for "means for * * * imposing on said motor-pump device a back pressure which is independent of the discharge pressure of said pump, whenever said reel is unwinding * * *." This language would permit a substantial back pressure on the pump and thus does not particularly point out the subject matter upon which appellants rely for the advantages urged for their system. We are not unmindful of the fact that the third paragraph of Section 112 states that the means and its specified function shall be construed to cover the corresponding structure "described in the specification and equivalents thereof" but we believe that in the case of claims in a pending application, the second paragraph of this same section is controlling as to the question of particularity and distinctness required of the claimed subject matter. The rejection of claims 3, 15, 39, and 41 as failing to distinguish patentably from Slomer, therefore, will be sustained.

Appellants submit that the claims here on appeal would have been allowable under the law as it existed prior to January 1, 1953. As for claims 1, 2, 4, 5, 6, 7 and 8, 12, 13, 14, and 40, which we have found allowable, taking into consideration Section 112 of the new law, this becomes a moot question. In respect to claims 3, 15, 39, and 41, the requirement that an applicant particularly point out and distinctly claim the part, improvement, or combination which he claims as his invention or discovery has long been the law and if these last claims fail in this respect, as we believe to be the case, they would not be allowable in any event.

Since this is a new decision, it supersedes any portion of the prior decision inconsistent herewith.

[7] The decision of the Examiner is affirmed as to claims 3, 15, 39, and 41 but is reversed as to claims 1, 2, 4, 5, 6, 7 and 8, 12, 13, 14, and 40.

AFFIRMED as to claims 3, 15, 39, and 41.

REVERSED as to claims 1, 2, 4, 5, 6, 7 and 8, 12, 13, 14, and 40.

Errata

In the decision of the United States Court of Customs and Patent Appeals in *In re Odeen*, No. 5963, decided Apr. 15, 1953, published at 674 O. G. 545, line 4 thereof, the reference "207 F.2d 766" should read *203 F.2d 766*.

In the decision of the United States Court of Customs and Patent Appeals in *In re Schechter et al.*, No. 5935, decided June 3, 1953, published at 674 O. G. 545, line 4 thereof, the reference "90 USPQ 144" should read *98 USPQ 144*.

In the decision of the United States Court of Customs and Patent Appeals in *In re Prutton*, No. 5975, decided June 24, 1953, published at 674 O. G. 550, line 4 thereof, the reference "97 USPQ 447" should read *98 USPQ 269*.

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,042,158, R. L. McKinney, Door, D. C., E. D. Pa. (Philadelphia), Doc. 11212, *Crawford Door Co.* v. *The Howell Mfg. Co.* Judgment dismissing complaint July 7, 1953.

2,191,813. H. Brown, Electrodeposition of nickel from an acid bath, D. C., N. D. Ohio (Cleveland), Doc. 30022, *The Udylite Corp.* v. *Smoothes, Inc., et al.* Consent judgment holding patent valid; defendants enjoined from further infringement July 2, 1953.

2,224,403, H. A. Lines, Electrical heating of storage and transportation system of a viscous fluid, D. C. Ohio (Cleveland), Doc. 27090, *Fluid Systems, Inc.* v. *Great Lakes Equipment Co.* Judgment holding claims 4, 14, and 15 valid; injunction issued, original and amended counterclaims dismissed July 8, 1953.

2,294,497, M. Zawistowski, Portable cutting machine, filed July 9, 1953, D. C., S. D. N. Y., Doc. 86/245, *Simplex Cloth Cutting Machine Co., Inc.* v. *Eastman Machine Co.*

2,349,351, E. P. Jarvis, Display rack, suit for Declaratory Judgment filed July 1, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15665–C, *Robert Brand & Sons Co.* v. *E. P. Jarvis.*

2,450,631, E. Buchler, Garment, D. C., S. D. N. Y., Doc. 54/169, *Arkay Infants Wear, Inc.* v. *Regal Knitwear Co., Inc., et al.* Order of dismissal Sept. 9, 1952.

2,470,140. (See Re. 23,626.)

2,496,969, W. Wentworth, Spectacle sweat bar, filed July 9, 1953, D. C. R. I. (Providence), Doc. 1589, *Welsh Mfg. Co.* v. *Atlantic Optical Products, Inc., et al.*

2,500,280, Des. 153,778, S. Feldman, Combination cap and sunshade, D. C., S. D. N. Y., Doc. 61/5, *Clearsite Corp. of America, Inc.* v. *Sears, Roebuck, Inc.* Stipulation and order of dismissal Oct. 9, 1952.

2,531,323, W. S. Connell, Refrigeration cabinet; Des. 162,934, Des. 162,935, same, Soda fountain, filed July 6, 1953, D. C., W. D. Mich. (Grand Rapids), Doc. 2263, *The Bastian-Blessing Co.* v. *Grand Rapids Cabinet Co.*

2,606,377, L. B. Edwards, Method and apparatus for treating fabric garments during the pressing operation, D. C., N. D. Calif. (San Francisco), Doc. 31851, *L. B. Edwards et al.* v. *E. Bouchet.* Consent decree for injunction from violation of patent July 6, 1953.

2,624,335, C. J. Miller, Vibratory massage device, filed July 9, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15704–PH, *Relax-It Vibrator Co., Inc.* v. *Kenneth Webber et al.*

2,625,079, M. B. Singer, Eyeglass frame construction, filed July 9, 1953, D. C., S. D. N. Y., Doc. 86/248, *Bay State Optical Co.* v. *T. & P. Optical Mfg. Co., Inc.*

2,633,727. (See Re. 23,626.)

2,634,129, Lohr & Carver, Ball control game apparatus, D. C., S. D. N. Y., Doc. 85/183, *Louis Marx & Co., Inc.* v. *Lido Toy Co.* Stipulation and order of dismissal July 8, 1953.

Re. 21,694, J. H. Rand, Jr., Multiple head dry shaver, filed July 7, 1953, D. C., E. D. Pa. (Philadelphia), Doc. 15308, *Remington Rand, Inc.* v. *Schick Service, Inc.*

Re. 23,626, 2,470,140, G. P. Castner, Washing machine: 2,633,727, W. J. Roth, same, filed July 6, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1510, *Solar Corp.* v. *Borg-Warner Corp.*

Des. 153,778. (See 2,500,280.)

Des. 162,934. (See 2,531,323.)

Des. 162,935. (See 2,531,323.)

Des. 164,732, J. Popkin, Chair, D. C., S. D. Calif. (Los Angeles), Doc. 13200–HW, *The Berkline Corp.* v. *Capitol Chair Co., Inc., et al.* Consent judgment dismissing without prejudice first and second causes of action, holding patent valid and infringed: injunction (notice July 7, 1953).

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946

T. M. 57,902, T. M. 124,602, T. M. 150,620, The Texas Co., Petroleum products, D. C. Tex. (Tyler), Doc. 1512, *The Texas Co.* v. *Wagnon Oil Co.* Order of dismissal (notice June 30, 1953).

T. M. 124,602. (See T. M. 57,902.)

T. M. 150,620. (See T. M. 57,902.)

T. M. 215,042, T. M. 532,270, Williamson-Dickie Mfg. Co., Men's work clothing: T. M. 507,167, same, Men's and boys' pants, etc., filed July 2, 1953, D. C., E. D. Pa. (Philadelphia), Doc. 15494, *Williamson-Dickie Mfg. Co.* v. *S. Davis et al.*

T. M. 394,192, Movado Watch Agency, Inc., Watches, suit for Declaratory Judgment, filed July 10, 1953, D. C., S. D. N. Y., Doc. 86/261, *Croton Watch Co.* v. *Movado Watch Agency, Inc., et al.*

T. M. 424,690, Vad Corp., Lipstick and cleansing creams, D. C., S. D. N. Y., Doc. 74/211, *Vad Mfg. Co., Inc.* v. *Coty, Inc.* Order dismissing cause for lack of prosecution June 9, 1953.

T. M. 503,663, Custom Maid Brassiere Co., Brassières, D. C., S. D. N. Y., Doc. 62/343, *E. Leithold et al.* v. *Gerry Nufoam Rubber Corp.* Order dismissing cause for lack of prosecution June 9, 1953.

T. M. 507,167. (See T. M. 215,042.)

T. M. 512,110, Tabin-Picker & Co., Aprons and dresses, et al., D. C., N. D. Ill. (Chicago), Doc. 52c2330, *Tabin-Picker & Co.* v. *Joyciana Dress Co.* Consent judgment, defendant enjoined July 7, 1953.

T. M. 532,270. (See T. M. 215,042.)

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

E. I. du Pont de Nemours and Company has placed 415 additional patents on the Register under Schedules XXVII, XXVIII, XXIX, XXX, XXXI, XXXII, XXXIII, XXXIV, and XXXV. Listing of these patents began in the *Register* section of the OFFICIAL GAZETTE, Sept. 22, 1953, and is continuing in succeeding issues of the OFFICIAL GAZETTE until the listing is completed. These patents, which are available for licensing on reasonable terms as indicated at the beginning of each schedule, are in addition to more than 5,800 patents registered previously by the Du Pont Company and listed during 1948–1953 in the *Register* sections of the OFFICIAL GAZETTE. The present listing includes Reg. Nos. 51,777 through 51,855.

Inquiries concerning these patents should be addressed to: Patent Division, E. I. du Pont de Nemours and Company, Wilmington 98, Del.

SCHEDULE XXVII (310 patents)—*Continued*

Unrestricted licenses will be granted under these patents.

Pat. 2,432,830. Stable Dispersions of Aromatic Amines and a Process of Preparing Them. Dec. 16, 1947. Process for preparing an aqueous dispersion of a secondary aromatic amine, e. g., phenyl betanaphthylamine, in which a primary straight chain 8 to 18 carbon aliphatic alcohol, e. g., cetyl alcohol, is incorporated prior to colloidal milling with a dispersing agent. These products are useful as antioxidants for elastomers. Group 28—89.

Pat. 2,432,831. Stable Dispersions of Aromatic Amines. Dec. 16, 1947. Process for preparing an aqueous stable dispersion of a secondary aromatic amine, e. g., phenyl beta-naphthylamine, in which lecithin is incorporated prior to the dispersion process using a dispersing agent. These products are useful as antioxidants for elastomers. Group 28—89.

Pat. 2,436,355. Spray Drying Dimethylolurea. Feb. 17, 1948. Preparation of dry stable dimethylolurea by crystallizing dimethylolurea reaction products of formaldehyde and urea at a temperature from 35°–50° C., followed by spray drying of the resulting slurry. Group 28—89.

Pat. 2,440,190. Preparation of Nonporous Polytetrafluoroethylene Articles. Apr. 20, 1948. Forming a slurry of polytetrafluoroethylene, sedimenting, decanting, pressing, and sintering. Group 28—89.

Pat. 2,443,183. Process for Chlorination of Ethanol. June 15, 1948. Process in which ethanol is added to chloral alcoholate and other products of chlorination of ethanol and then chlorinated. Group 28—89.

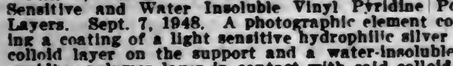
Pat. 2,444,536. Synthesis of N-Aryl-Maleimides. July 6, 1948. N-aryl-maleimides are prepared by heating a mononuclear N-arylmaleamic acid with acetic anhydride and sodium acetate. Group 28—89.

Pat. 2,448,552. Photographic Element Having Light Sensitive and Water Insoluble Vinyl Pyridine Polymer Layers. Sept. 7, 1948. A photographic element comprising a coating of a light sensitive hydrophilic silver halide colloid layer on the support and a water-insoluble vinyl pyridine polymer layer in contact with said colloid layer. Group 39—12.

Pat. 2,454,284. Composition of Half-Ester of Styrene-Maleic Anhydride Copolymer and a Solvent. Nov. 23, 1948. A half-ester of styrene-maleic anhydride polymer esterified with a saturated aliphatic alcohol of 12 through 18 carbon atoms, and a solvent for the ester; also metal protection process employing the composition. Group 28—89.

Pat. 2,457,227. Stabilization of Fats and Oils. Dec. 28, 1948. Process for inhibiting the rancidity of edible vegetable, animal and fish oils, fats and waxes, containing metals, by heating with substituted mercaptopropionic acid compounds, such as thiodipropionic acid or fat-soluble esters thereof, and thereafter separating the precipitated metal. Group 20—92.

Pat. 2,461,894. Condensation Products of Tri-(Beta-Aminoethyl)-Amine and Beta-Diketones or Hydroxy Methylene Ketones. Feb. 15, 1949. A compound of the formula:



R and R'=hydrogen or methyl; each X and Y=hydrogen or hydrocarbon radical; Z=a hydrocarbon group. Group 28—86.

Pat. 2,462,633. Animal Feed. Feb. 22, 1949. Animal feeds, such as wheat, stabilized against oxidative deterioration by means of a substituted mercaptopropionic acid compound, such as thiodipropionic acid or an ester thereof. Group 20—42.

Pat. 2,462,638. Corrosion Inhibiting Process. Feb. 22, 1949. Use of copper as a corrosion inhibitor during distillation of hydrogen cyanide from an aqueous solution of hydrogen cyanide, ammonium salts and sulfuric acid, obtained by scrubbing formamide decomposition products with dilute sulfuric acid. Group 28—89.

Pat. 2,463,219. Improving the Millability of Butadiene-Styrene Interpolymers. Mar. 1, 1949. Incorporation into a butadiene-styrene latex prepared by emulsion polymerization from 1% to 4% of an aryl mercaptan of the benzene or naphthalene series followed by incorporation of oxygen. Group 28—33.

Pat. 2,464,265. Manufacture of Trichloromethyl Di(Para-Chlorophenyl) Methane. Mar. 15, 1949. In making DDT by condensation of chloral and monochlorobenzene in sulfuric acid, the step of raising the temperature at completion of the condensation to form a two-phase liquid system and allowing separation of the system into two layers by the action of gravity. Group 28—33.

Pat. 2,467,223. Preparation of Formaldehyde. Apr. 12, 1949. Oxidation of methylal with oxygen to formaldehyde in the vapor phase and in the presence of a methanol oxidation catalyst. Group 28—89.

Pat. 2,467,705. Aqueous Dispersions of Phenyl-Beta-Naphthylamine. Apr. 19, 1949. Preparation of aqueous dispersions of N-phenyl-2-naphthylamine by incorporating before the dispersion process is complete a straight chain monocarboxylic acid having from 9 to 14 carbon atoms. Dispersions so prepared are claimed. Group 28—89.

Pat. 2,467,706. Aqueous Dispersions of Phenyl-Beta-Naphthylamine. Apr. 19, 1949. N-phenyl-2-naphthylamine having intimately incorporated therewith a straight chain primary aliphatic mercaptan containing from 8 to 14 carbon atoms, process of preparing aqueous dispersions by incorporating, before the dispersion process is complete, such a mercaptan, and dispersions formed in this way. Group 28—89.

Pat. 2,467,708. Aqueous Dispersions of Phenyl-Beta-Naphthylamine. Apr. 19, 1949. Process for preparing aqueous dispersions of N-phenyl-2-naphthylamines which comprises incorporating in the dispersion before the dispersion process is completed from 0.1% to 10% (based on the weight of the amine) of a liquid polymeric dimethyl silicone and completing the dispersion process by a colloidal mixing operation. Aqueous dispersions so formed are claimed, as well as a N-phenyl-2-naphthylamine having intimately incorporated therewith a liquid polymeric dimethyl silicone. Group 28—89.

Pat. 2,467,789. Zinc Salts of Aromatic Mercaptans as Processing Agents for Rubbers. Apr. 19, 1949. Improving processing characteristics of natural rubber or butadiene polymers by incorporating a zinc salt of an aromatic mercaptan which is in solution in an inert organic solvent consisting of from 10% to 100% neutral oxygenated organic solvents. Group 28—34.

Pat. 2,468,725. Preparation of Long-Chain Esters of Beta-Thiodipropionic Acid. May 3, 1949. Preparation of odorless and tasteless higher alcohol esters of beta-thiodipropionic acid by ester interchange between a lower dialkyl ester of beta-thiodipropionic acid and a higher alcohol. Group 28—89.

Pat. 2,476,307. Water-Soluble Esters of Alkyl Siliconic Acids. July 19, 1949. A hydrolyzable, water-soluble ester of an alkyl trihydroxysilane obtainable by reacting a silicon compound of the general formula $R—Si(OC_2H_5)_3$, wherein R is an alkyl radical of at least 12 carbon atoms, with a polyethylene glycol having the unit OCH_2CH_2 repeated in a chain from 2 to 12 times, the molal ratio of polyethylene glycol to silicon compound being substantially 3:1. Group 28—89.

Pat. 2,476,308. Water-in-Oil Type Emulsion. July 19, 1949. A stable water-in-oil emulsion comprising water, a water-immiscible organic liquid, and emulsifying agent consisting of a polymer of an alkyl-siliconic acid of the general formula $R—SiO.OH$, wherein R represents an alkyl radical of 12 to 28 carbon atoms. Group 28—89.

Pat. 2,478,152. Preparation of Chloral and Chloral Hydrate. Aug. 2, 1949. Chloral preparation by chlorinating ethanol in light in three successive temperature stages. Group 28—89.

Pat. 2,478,441. Vinyl Phosphonocarboxylate Esters and Polymers Thereof. Aug. 9, 1949. Monomeric and polymeric vinyl esters of phosphonocarboxylic acids, e. g., vinyl diethyl phosphonoacetate; their preparation from phosphorus acid esters and vinyl monohalogenoacetates and propionates; and fabrics coated with the polymeric products. Group 28—83.

Pat. 2,480,821. Distribution of Water-Dispersible Material Throughout Thermoplastic Polymers. Sept. 6, 1949. Distributing a water-dispersible material (coloring) in water with a dispersing agent, adding granular polymer, masticating at elevated temperatures until mixture is colloided. Group 28—89.

Pat. 2,485,603. Hydrocarbosilicon Thiocyanates and Articles Treated Therewith. Oct. 25, 1949. An organosilicon thiocyanate having the general formula $R_nSi(SCN)_{4-n}$ wherein R is a monovalent hydrocarbon radical and n is 1 to 3. Water repellent fabrics containing a coating comprising the product formed by heating these compounds on the fabric. Group 28—89.

Pat. 2,487,832. Process for Preparing Anisole. Nov. 15, 1949. Anisole preparation by passing phenol and dimethyl ether in vapor phase into reaction zone containing dehydrating catalyst at 200° to 400° C. Group 28—32—89.

Pat. 2,490,691. Alkyl Polysilicates. Dec. 6, 1949. Alkyl polysilicates having molecular weight over 10,000 and process for their manufacture. Group 28—83.

Pat. 2,491,695. Methanol Oxidation Catalysts. Dec. 20, 1949. Catalytic oxidation of methanol to formaldehyde using a bismuth molybdate catalyst. Group 28—89.

Pat. 2,491,920. Diesters of 1-Ketophosphonic Acids. Dec. 20, 1949. Diester of a 1-ketophosphonic acid having the formula $R—CO—PO(OR')_2$, where R and R' are alkyls of not more than six carbons, and method for preparation. Group 28—89.

Pat. 2,492,804. Case Hardening Steel. Dec. 27, 1949. Acidic oxides such as boron oxide and silicon dioxide are added to cyanide baths containing carbonate and free carbon, to decrease nitriding and increase carburizing. Group 33—99.

Pat. 2,492,805. Case Hardening Composition. Dec. 27, 1949. Case hardening steel articles in molten salt bath containing 5%–40% alkali metal cyanide, 1%–20% boron oxide, 1%–15% finely divided carbon and alkali metal carbonate. Group 33—99.

Pat. 2,497,320. Stabilized Milk Products. Feb. 14, 1950. Milk product stabilized with a substituted mercapto-propionic acid compound, such as thiodipropionic acid or an ester thereof. Group 20—23.

Pat. 2,499,865. Liquid Alkyl Silicones and Method for Their Preparation. Mar. 7, 1950. A liquid butyl silicone containing from 1.0 to 1.1 butyl groups per silicone atom and method for preparation of liquid alkyl silicones by hydrolyzing monoalkyl trichlorosilane. Group 28—89.

Pat. 2,504,016. Cyclooctadienes and Their Preparation. Apr. 11, 1950. Dimerization of aliphatic conjugated dienes to cyclooctadienes by heating in the presence of nickel cyanide catalyst and a polymerization inhibitor. The tetrachlorocyclooctadiene obtained by this process from 2,3-dichloro-1,3-butadiene is claimed. Group 28—89.

Pat. 2,519,013. Polyethylene Structures. Aug. 15, 1950. Films, filaments, etc., of polyethylene are treated with an anti-static, anti-slip agent which is a water-soluble alkyl aryl polyglycol ether. (Antarox A-180 or Surfene A.) Group 28—86.

Pat. 2,522,366. Preparation of Substituted Glutaric Acid Esters. Sept. 12, 1950. Preparation of alpha-substituted glutaric acid esters by heating a mixture of an alkyl beta-alkoxypropionate, a polymerization inhibitor and an alkaline condensation agent. Group 28—89.

Pat. 2,532,044. Production of New Chlorine-Containing Ethers. Nov. 28, 1950. Delta-chlorobutyl formal and delta-chlorobutyl chloromethyl ether ex tetrahydrofuran, formaldehyde and hydrogen chloride. Group 28—89.

Pat. 2,532,559. Hydrocarbosilicon Isocyanates. Dec. 5, 1950. Alkylsilicon isocyanates and an article treated therewith, which article is characterized by possessing water-repellent properties. Group 28—89.

Pat. 2,532,579. Pest Control Compositions Containing Beta-Acyl Acrylates. Dec. 5, 1950. Compound of formula $RCOCH=CHCOOR'$, where R is chloroaryl and R' is alkyl of 1 to 6 carbons, in admixture with a wetting agent. Group 28—33.

Pat. 2,534,070. Machine for Assembling Sheet Form Material. Dec. 12, 1950. A device for inspecting material, interleaving individual lengths of the material with separators and means for collecting acceptable lengths of said materials in bundles of predetermined size. The inspection device records defects and cooperates with means for delaying records of defects in a given individual length while the same is being interleaved. Group 28—99.

Pat. 2,537,969. Preparation of Polymerized Methyl Methacrylate Sheets. Jan. 16, 1951. The steps of adding water to liquid methyl methacrylate and then distributing the mixture on the surface of a body of an aqueous salt solution, amount of water added being at least enough to saturate the methyl methacrylate 70% at the temperature when distribution takes place. Group 28—89.

Pat. 2,537,970. Preparation of Synthetic Resin Sheets. Jan. 16, 1951. Distributing liquid methyl methacrylate or styrene with a viscosity of no more than 40 poises on the surface of an aqueous salt solution of lithium or magnesium chloride, and polymerizing at 0°–80° C., the salt solution being substantially saturated. Group 28—83.

Pat. 2,544,507. Alkaline Earth Sulfide Phosphorescent Pigments. Mar. 6, 1951. Phosphorescent alkaline earth metal sulfide pigment containing bismuth and silver as activators to promote afterglow. Group 28—89.

Pat. 2,544,737. 11-Oxabicyclo(4.4.1)Undecanes and Their Preparation. Mar. 13, 1951. 11-oxabicyclo(4.4.1)-undecanes and their preparation by passing a vapor mixture of hydrogen and a 6-hydroxy- or 6-alkoxycyclodecanone-1 over a platinum or other noble metal catalyst. Group 28—89.

Pat. 2,544,881. Preparation of Anhydrous Sodium Beta-Naphtholate and Carbonation Thereof. Mar. 13, 1951. Production of anhydrous sodium 2-naphtholate by heating the naphtholate in an inert atmosphere at 307°–370° C. and maintaining the product in a molten state while reducing the pressure below the equilibrium vapor pressure. This process followed by reaction of the molten material at 235° C. with CO_2 to give 3-hydroxy-2-naphthoic acid is also claimed. Group 28—89.

Pat. 2,544,888. Production of a Sulfur Dye. Mar. 13, 1951. Sulfurizing, in the presence of 2-methoxy-, 2-ethoxy-, or 2-butoxyethanol, the leucophenol obtained by co-oxidizing a salt of 8-anilino-1-naphthalenesulfonic acid and p-amino-phenol and reducing the product, and subsequently treating the sulfurized leucoindophenol with an alkali metal cyanide. Products so prepared are also claimed. Group 28—89.

Pat. 2,547,944. Cyclic Polymeric Organo Silicates and Method for Preparing Same. Apr. 10, 1951. A cyclic polymeric compound of formula $[—(RO)_2SiO—]_x$, where x is 4 to 8 and R is hydrocarbon up to 10 carbons; and process for preparation by hydrolyzing specified organohalides in water in presence of tertiary amines. Group 28—83.

Pat. 2,551,086. Multicolor Motion Picture Film With Sound Records. May 1, 1951. A positive three color multilayer motion picture film in which the outermost layer contains a magenta azomethine dye image of 4,4'-methylene-bis-(3,methyl-1-(m-furolylaminophenyl)-5-pyrasolone), including a sound image. The dye sound image in the outermost layer absorbs the preponderant amount of light in the region of 4800–6000. The central layer contains an indophenol dye image of 4,4'-bis (1 naphthol-2-sulfonamidophenyl) ether and the innermost layer contains an azomethine dye image of dibenzoylacetbenzidine, all said dye images being formed by coupling with the oxidation product of p-N-diethylaminoaniline, said film having a composite dye sound image record in the two adjacent outer layers only. Group 39—12.

Pat. 2,551,091. Process for Color Developing Including Treatment With a Quaternary Ammonium Salt. May 1, 1951. The color of quinoneimine or azomethine dyes derived from immobile color formers containing carbonamide or sulfonamide groups is improved by treatment with surface-active quaternary ammonium salts. Group 39—12.

Pat. 2,556,727. Process of Finishing Phthalocyanine Pigments. June 12, 1951. Ball-milling crude phthalocyanine with grinding elements not greater than 0.25" in diameter while pigment is suspended in an organic liquid (acetone). Group 28—12.

Pat. 2,556,984. Immersion Heater. June 12, 1951. Preferred construction for immersion heater for heating liquids, e. g., cyanide baths, comprising an upper primary combustion zone, a lower vertical shell closed at its lower end, a conduit within the shell to lead products of partial combustion to the bottom of the shell, an annular air

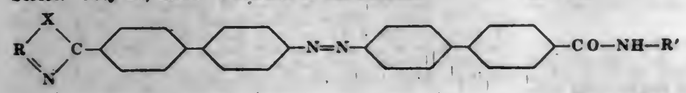
chamber between conduit and shell to supply secondary air to bottom of shell to complete combustion and means for exhausting combustion gases. Group 36—21.

Pat. 2,557,109. Preparation of Polymetaphosphate Solutions. June 19, 1951. A Kurrol salt is converted to a soluble polymetaphosphate by treatment in aqueous suspension at pH5 with an insoluble cation-exchanger. Group 28—89.

Pat. 2,557,132. Preparation of Polymetaphosphoric Acid Solutions From Kurrol Salts. June 19, 1951. A water solution of polymetaphosphoric acid is obtained by treating a water suspension of a Kurrol salt with an insoluble cation-exchanger in its hydrogen form. Group 28—89.

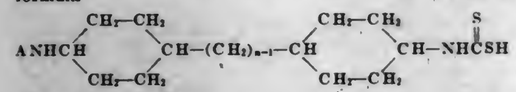
Pat. 2,558,624. Decontaminating Products From Pyrolysis of $CHClF_2$. June 26, 1951. Decontaminating pyrolysis products obtained in the pyrolysis of $CHClF_2$ by reacting the pyrolysis products in the liquid phase at —75° to 50° C. with anhydrous ammonia. Group 28—89.

Pat. 2,559,674. Dyes of the Thiophanthraquinone Series. July 10, 1951. Products of the formula



in which X is S or O, R is thiophanthraquinone, anthraquinone, or their monobromo or monochloro derivatives, and R' stands for thiophanthraquinone, anthraquinone, or their bromo, chloro, benzamido, or thenoylamino derivatives, at least R or R' being of the thiophanthraquinone series. Group 28—12—89.

Pat. 2,561,208. Thiocarbamic Acid Derivatives of Alkylene Bis(Cyclohexyl Amine). July 17, 1951. Dithiocarbamic acids, their salts and esters, the acid having the formula



where A is hydrogen or



and n is 1 to 5. Group 28—89.

Pat. 2,563,835. Food Antioxidants. Aug. 14, 1951. A multiple component antioxidant for inhibiting the rancidity of food materials which comprises a substituted mercaptopropionic acid, citric acid, and an alkylated hydroxyanisole. Groups 20—37; 28—89.

Pat. 2,564,106. Food Antioxidants. Aug. 14, 1951. A combination producing a synergistic action of antioxidants which comprises thiodipropionic acid and butylated hydroxyanisole in solution in a mutual solvent such as propylene glycol. Groups 20—37; 28—89.

Pat. 2,564,726. Polymeric Compounds. Aug. 21, 1951. A salt of a vinyl pyridine polymer with an acid dye, said polymer being insoluble in water but soluble in 1% aqueous acetic acid. Group 28—83.

Pat. 2,569,939. Infra-Red Phosphors. Oct. 2, 1951. Infrared-stimulable phosphors consisting of a calcium compound activated with small amounts of samarium and cerium. Group 28—89.

Pat. 2,569,940. Infra-Red Phosphors. Oct. 2, 1951. Infrared-stimulable phosphors consisting of a calcium compound activated with small amounts of samarium and manganese. Group 28—89.

Pat. 2,570,136. Infra-Red Phosphors. Oct. 2, 1951. Infrared-stimulable phosphors consisting of a calcium compound activated with small amounts of copper and lead. Group 28—89.

Pat. 2,571,997. Catalytic Rearrangement of Pinene to Camphene. Oct. 23, 1951. Converting pinene to camphene by contacting pinene with a molybdite of a metal whose ions are soluble in excess aqueous ammonia. Group 28—86.

Pat. 2,572,946. Composition Comprising 2-Aliphatic-3-Hydroxy-1,4-Naphthoquinone and Method for Controlling Mites and Aphids. Oct. 30, 1951. A composition and method for the control of mites and aphids employing a 2-aliphatic-3-hydroxy-1,4-naphthoquinone. Group 28—33.

Pat. 2,576,850. Gelling of Polymeric Compounds. Nov. 27, 1951. A process of treating hydroxyl polymer layers, e. g., polyvinyl alcohol, partially hydrolyzed vinyl ester polymers and polyvinyl acetals with an aqueous alkaline solution containing an acylacetamide of an aromatic amine. Group 28—83.

Pat. 2,578,523. Polytetrafluoroethylene Packing Material and Process for Making Same. Dec. 11, 1951. A process for the manufacture of packing and gasket material by passing particles of unsintered polytetrafluoroethylene between milling rolls a plurality of times until the polytetrafluoroethylene assumes the forms of matted shreds, flakes or strands. Group 32—93.

Pat. 2,580,068. Process of Removing Sulfur Compounds and Carbon Monoxide From Hydrogen. Dec. 25, 1951. A process for purifying a hydrogen-rich substantially oxygen-free gas containing sulfur compounds and carbon monoxide which comprises passing the impure gas over a copper-zinc carbon monoxide and sulfur removal catalyst and immediately thereafter without temperature or pressure changes passing the gas over a methanation catalyst. Group 28—89.

Pat. 2,584,992. Activated Addition Halogenation. Feb. 12, 1952. Process for effecting addition halogenation of an aromatic compound employing an azo catalyst, e. g., chlorination of benzene to hexachlorocyclohexane in the presence of a,a' azodiisobutyronitrile. Group 28—89.

Pat. 2,585,469. Process for the Manufacture of Chloromethanes. Feb. 12, 1952. Chlorination of a mixture of methane and hydrogen by passing the mixture and chlorine through a bed of finely divided inert solids which is maintained thereby in a fluidized turbulent condition. Group 28—89.

Pat. 2,585,596. Photographic Emulsions, Containing 2,5 dimethoxytetrahydrofuran. Feb. 12, 1952. A light sensitive gelatino silver halide emulsion containing a small amount of 2,5 dimethoxytetrahydrofuran. Group 39—12.

Pat. 2,586,837. Preparing Dianisidine. Feb. 26, 1952. Rearranging hydrazoanisole to dianisidine by the action of a dilute aqueous solution of a strong non-oxidizing mineral acid in the presence of 2%—5% of a sodium salt of a dialkyl dithiocarbamic acid. Group 28—89.

Pat. 2,592,112. Apparatus for Cellulose Processing. Apr. 8, 1952. An apparatus for forming and delivering to a slurry separating device a uniform slurry of cellulose in aqueous caustic solution. Group 28—83.

Pat. 2,592,169. Manufacture of Iron Blue Pigments. Apr. 8, 1952. Effecting pigment precipitation, digestion and acidification under controlled oxidation conditions coupled with vigorous agitation. Group 28—12.

Pat. 2,592,273. Quaternary Ammonium Salts of High Molecular Weight Polymetaphosphoric Acid. Apr. 8, 1952. Quaternary ammonium salt of polymetaphosphoric acid containing at least 130 phosphorus atoms per molecule. Group 28—89.

Pat. 2,594,044. Solvent Extraction of Oils With Dimethylammonium Dimethylcarbamate. Apr. 22, 1952. Process for refining mineral oils by extracting impurities with dimethylammonium dimethylcarbamate. Group 28—34.

Pat. 2,594,780. Explosive Dump Shell. Apr. 29, 1952. An explosive dump shell for oil well use having a tension responsive yoke, two flexible members extending from the yoke to a fully detachable end closure unit, and latch jack means for releasably holding said end closure in position. Group 35—32.

Pat. 2,595,977. Stabilizing Wool Against Shrinkage. May 6, 1952. A process for producing a woolen yarn of low shrinkage which comprises blending wool with from 15%—40% of a staple prepared from an acrylonitrile polymer containing at least 85% acrylonitrile and converting the resultant blend into a yarn. Groups 22—33; 28—89.

Pat. 2,598,120. Vat Dyeing of Acrylonitrile Polymers Using Potassium Ions. May 27, 1952. Marked improvement in shade strength is obtained when acrylonitrile polymers are dyed with indigo and thioindigo vat colors in the presence of an ionizable potassium compound. Group 28—83—89.

TRADE-MARKS

OFFICIAL GAZETTE, OCTOBER 6, 1953

[VOL. 675. No. 1]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 636,346. Cornell Seed Company, St. Louis, Mo. Filed Oct. 8, 1952. (Sec. 2f as to "Cornell.")



No claim is made to the word "Seeds" per se. The drawing is lined for the colors red, green, and yellow. Applicant claims ownership of Registrations Nos. 238,594, 352,573, 391,378, and 505,069.

For Garden and Field Seeds and Bulbs.

Claims use since Aug. 27, 1952.

Ser. No. 636,375. New River and Pocahontas Consolidated Coal Company, Philadelphia, Pa. Filed Oct. 8, 1952.



For Coal.

Claims use since on or about May 25, 1905.

Ser. No. 637,952. Rubber and Plastics Compound Co., Inc., New York, N. Y. Filed Nov. 12, 1952.

NERVA

CLAD

Applicant claims ownership of Registrations Nos. 408,816, 437,202, 533,417, and 542,635.

For Protective Material Sold in Sheet Form Composed of Spun Glass Fibers, Synthetic Rubber Fibers.

Claims use since July 21, 1952.

Ser. No. 638,803. Arthur R. MacArthur, doing business under the name and style of MacArthur Farms, Janesville, Wis. Filed Dec. 1, 1952. (Sec. 2f.)

Mac Arthur

For Fur Pelts.

Claims use since 1940.

Ser. No. 641,713. Godfrey L. Cabot, Inc., Boston, Mass. Filed Feb. 4, 1953.

KAO-KLAY

The word "Klay" is disclaimed apart from the mark as shown.

For Clays.

Claims use since Dec. 18, 1952.

Ser. No. 643,115. Phoenix Fuel Company, Louisville, Ky. Filed Mar. 4, 1953.



The drawing is lined to indicate blue.

For Bituminous Coal.

Claims use since Aug. 25, 1951.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 608,612. Lifeguard Products Limited, London, England. Filed Jan. 10, 1951.

Vew

Applicant claims ownership of British Registration No. 687,264, dated Mar. 13, 1950.

For Preparations in Paste Form for Cleaning and Polishing Windows.

CLASS 5

ADHESIVES

Ser. No. 639,175. Kentile, Inc., Brooklyn, N. Y. Filed Dec. 8, 1952.

KENSET

For Adhesive for Use in Installing Floor Tile.

Claims use since Aug. 6, 1952.

Ser. No. 644,231. The General Tire & Rubber Company, Akron, Ohio. Filed Mar. 26, 1953.

GTR

For Rubber-to-Fabric Latex Dips and Rubber, Plastic, and Resin Adhesive Dispersions and Solutions.
Claims use since Dec. 31, 1952.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 605,965. Monsanto Chemical Company, St. Louis, Mo. Filed Nov. 6, 1950.

TI-TREX

For Synthetic Resins Whether in the Form of Powders, Granules, Emulsions, Solutions, or Dispersions for Use in the Industrial Arts.
Claims use since Oct. 26, 1950.

Ser. No. 634,023. Murray Raney, sometimes doing business as The Raney Catalyst Company, Chattanooga, Tenn. Filed Aug. 12, 1952. (Sec. 2f as to "Raney Nickel.")

Raney NICKEL

No claim is made to the word "Nickel" except in association with the mark as shown. The drawing is lined to represent a contrast in colors. Applicant claims ownership of Registration No. 562,088.
For Catalyst in Powder or Ingot or Lump Form Comprising an Alloy of Aluminum With Nickel, Copper, Cobalt, or Iron.
Claims use since Dec. 22, 1932, on the words "Raney Nickel"; and since June 12, 1950, on the mark as shown.

Ser. No. 644,120. Insecticides Company, Nashville, Tenn. Filed Mar. 24, 1953.

SOUTHERN BRAND

The word "Brand" is disclaimed apart from the mark as shown. The figure is that of a fictitious person.
For Insecticides, Fungicides.
Claims use since Feb. 24, 1953.

Ser. No. 644,870. Rohm & Haas Company, Philadelphia, Pa. Filed Apr. 7, 1953.

PERTHANE

For Insecticides, Fungicides, and Disinfectants.
Claims use since on or about Mar. 17, 1953.

Ser. No. 646,127. Gulf Oil Corporation, Pittsburgh, Pa. Filed Apr. 29, 1953.

Gulfspray

For Insecticides.
Claims use since on or about Sept. 1, 1934.

Ser. No. 646,184. West Disinfecting Company, Long Island City, N. Y. Filed Apr. 29, 1953.

DYNEPAL

Applicant claims ownership of Registration No. 552,316.
For Chemical Compositions—Namely, Iodine Plus Polyethoxy Polypropoxy Ethanol, in Liquid and Powder Form.
Claims use since June 11, 1952.

Ser. No. 646,185. West Disinfecting Company, Long Island City, N. Y. Filed Apr. 29, 1953.

PYROSECT

For Liquid Insecticide.
Claims use since Apr. 1, 1953.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 634,548. Helena Rubinstein, Inc., New York, N. Y. Filed Aug. 27, 1952.

HELENA RUBINSTEIN

The name "Helena Rubinstein" is that of the founder and president of the applicant corporation, who has given consent to the use of her name as a trade-mark.
For Cigarette Holders.
Claims use since 1928.

CLASS 10

FERTILIZERS

Ser. No. 646,041. Arachem Products, San Diego and East San Diego, Calif. Filed Apr. 28, 1953.

ARA

For Soil Conditioners and Fertilizers.
Claims use since Apr. 16, 1953.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 608,359. David Kahn, Inc., North Bergen, N. J. Filed Jan. 4, 1951.

WEAREVER

Applicant claims ownership of Registrations Nos. 267,704, 322,245, and 413,562.
For Cartridge Refills for Ball-Point Pens and for Writing Ink.
Claims use since September 1946.

Ser. No. 635,656. David Kahn, Inc., North Bergen, N. J. Filed Sept. 23, 1952.

WEAREVER

Applicant claims ownership of Registrations Nos. 267,704, 360,440, and 413,562.
For Writing Ink.
Claims use since September 1946.

Ser. No. 642,561. Inez T. McCabe, doing business as John McCabe & Co., New York, N. Y. Filed Feb. 20, 1953.

High Point

Applicant claims ownership of Registration No. 288,397.
For Carbon Paper, Typewriter Ribbons, Writing Inks, and Ink for Pads.
Claims use since Nov. 6, 1930.

Ser. No. 645,354. John Underwood & Co., New York, N. Y. Filed Apr. 15, 1953.

ACCENT

For Typewriter Ribbons.
Claims use since Feb. 10, 1953.

Ser. No. 645,355. John Underwood & Co., New York, N. Y. Filed Apr. 15, 1953.

EMPHASIS

For Typewriter Ribbons.
Claims use since Feb. 10, 1953.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 625,080. The Silcrest Company, Wausau, Wis. Filed Feb. 16, 1952.

Crestline Millwork

The word "Millwork" is disclaimed apart from the mark as shown.
For Millwork and Particularly Doors and Door Frames, Shutters, Mantels, Window Frames and Sash, Built-In Closet Units, Mouldings, Built-In Ironing Board Cabinets, Door Entrance Trim, and Screen-Sash Units.
Claims use since Dec. 17, 1951.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 618,443. The California Wire Cloth Corporation, Oakland, Calif., assignor to The Colorado Fuel and Iron Corporation, Denver, Colo., a corporation of Colorado. Filed Sept. 6, 1951.

CAL-TIE

Applicant disclaims the word "Tie" apart from the mark as shown.
For Single-Stranded Wire.
Claims use since Jan. 1, 1951.

Ser. No. 624,239. Lando Products, Inc., San Francisco, Calif. Filed Jan. 29, 1952.

PLASTIC LUME

Applicant disclaims exclusive right to the word "Plastic" apart from the mark as shown.
For Venetian Blind Components—Namely, Metal Venetian Blind Slat Stock.
Claims use since Dec. 1, 1947.

Ser. No. 624,240. Lando Products, Inc., San Francisco, Calif. Filed Jan. 29, 1952.

Applicant disclaims exclusive right to the word "Plastic" except when used as a part of the trade-mark as shown and disclaims the representation of Venetian blind slat stock except when used as a part of the mark as shown. The drawing is lined to indicate the color red.
For Venetian Blind Components—Namely, Metal Venetian Blind Slat Stock.
Claims use since Dec. 1, 1947.

Ser. No. 629,438. Jackson-Wheeler Metals Service, Inc., Brooklyn, N. Y. Filed May 9, 1952.

SUMITEW SUMITE

For Brazing Metal Alloys, Bearing Metal Alloys, Babbitt Metals, and White Metal Alloys, Used as Anti-Frictional Media.
Claims use since Feb. 27, 1952.

Ser. No. 629,536. Wheel Craft Corporation, Azusa, Calif. Filed May 10, 1952.

PERMAFUGE

For Aluminum Castings.
Claims use since Mar. 21, 1952.

Ser. No. 630,846. Inland Steel Company, Chicago, Ill. Filed June 6, 1952.

HI-MAN

For Steel—Namely, Plates, Sheets, Bars, and Strips.
Claims use since Jan. 2, 1951.

Ser. No. 633,373. National Steel Corporation, Wilmington, Del., and Pittsburgh, Pa. Filed Aug. 1, 1952.

WEIRCOLOY

Applicant claims ownership of Registration No. 414,612.
For Copper Bearing Ferrous Base Alloy Sheets Coated With Zinc.
Claims use since Feb. 28, 1939.

Ser. No. 633,753. Colvilles Limited, Glasgow, Scotland. Filed Aug. 12, 1952.

COLCLAD

For Metal Plates, Sections or Bars, and Metal Tubing Stock.
Claims use since 1948.

Ser. No. 633,943. Quincy Foundry, Inc., Quincy, Ohio. Filed Aug. 14, 1952.

ABMET

For Metal Castings.
Claims use since on or about Mar. 3, 1952.

Ser. No. 635,747. Wilbur B. Driver Company, Newark, N. J. Filed Sept. 25, 1952.

NIROMET

For Rod and Wire Formed of Nickel-Iron Alloys for Use in Welding.
Claims use since Aug. 20, 1952.

Ser. No. 636,881. Crucible Steel Company of America, New York, N. Y. Filed Oct. 20, 1952.

LABELLE

For Steel Bars, Rods, Billets, Blooms, Sheets, Plates, Slabs, Strips, Blocks, Discs, and Forgings and for Steel in Special Shapes.
Claims use since 1878.

Ser. No. 637,002. Joseph T. Ryerson & Son, Inc., Chicago, Ill. Filed Oct. 22, 1952.

RYCROME

Applicant claims ownership of Registrations Nos. 381,252, 381,253, and others.
For Alloy Steel.
Claims use since Oct. 8, 1952.

Ser. No. 637,003. Joseph T. Ryerson & Son, Inc., Chicago, Ill. Filed Oct. 22, 1952.

RYCUT

Applicant claims ownership of Registrations Nos. 381,252, 381,253, and others.
For Alloy Steel.
Claims use since Oct. 8, 1952.

Ser. No. 637,004. Joseph T. Ryerson & Son, Inc., Chicago, Ill. Filed Oct. 22, 1952.

RY-DIE

The word "Die" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 381,252, 381,253, and 381,300.
For Tool Steel.
Claims use since Oct. 8, 1952.

Ser. No. 638,050. Apothecaries Hall Company, Waterbury, Conn. Filed Nov. 14, 1952. (Sec. 2f.)

99+ NUCAST NICKEL ANODE

No claim is made to the exclusive use of "99+" and "Nickel Anode" apart from the mark shown in the drawing. Applicant claims ownership of Registration No. 302,043.
For Expendable Anodes Used for Plating Metal.
Claims use since Jan. 21, 1932.

Ser. No. 643,886. The Arwood Precision Casting Corp., Brooklyn, N. Y. Filed Mar. 19, 1953. (Sec. 2f.)

ARWOOD

For Metal Castings.
Claims use since Apr. 1, 1947.

Ser. No. 644,145. Vacuum Metals Corporation, Cambridge, Mass. Filed Mar. 24, 1953.

NIVAC

For Nickel and Nickel Alloys.
Claims use since on or about January 1953.

Ser. No. 644,275. Bauer Alphabets Inc., New York, N. Y. Filed Mar. 27, 1953.



For Printing Type.
Claims use since Mar. 23, 1953.

CLASS 15

OILS AND GREASES

Ser. No. 614,923. The American Lubricants Co., Dayton, Ohio. Filed June 8, 1951.

MOLYSHIELD

For Lubricating Grease Containing Molybdenum.
Claims use since Jan. 1, 1951.

Ser. No. 625,921. Richfield Oil Corporation, Los Angeles, Calif. Filed Mar. 4, 1952.

ROCO

Applicant claims ownership of Registrations Nos. 241,741 and 361,442.
For Petroleum Products—Namely, Gasoline, Kerosene, and Lubricating Oils and Greases.
Claims use Jan. 1, 1927.

Ser. No. 641,012. Candle-Lite, Inc., Cincinnati, Ohio. Filed Jan. 21, 1953. (Sec. 2f.)

Twin Pack

Applicant claims ownership of Registration No. 342,383.
For Candles.
Claims use since September 1935.

Ser. No. 644,707. American Chemical Paint Company, Ambler, Pa. Filed Apr. 6, 1953.

GRANOLUBE

For Lubricants in Solid or Liquid Form, Especially Adapted for Use in the Cold Drawing of Metallic Surfaces.
Claims use since Nov. 28, 1952.

Ser. No. 644,788. The Pure Oil Company, Chicago, Ill. Filed Apr. 6, 1953.

PUROMAX

For Viscous Mineral Oil, Rich in Aromatic Hydrocarbons for Use in the Industrial Arts.
Claims use since on or about June 16, 1952.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 607,184. Nobema Products Corporation, New York, N. Y. Filed Dec. 1, 1950.

NOBEMA

For Water Colors, Oil Colors, Tempera Colors, Air-Brush Paint Colors, and Casein Colors.
Claims use since September 1920.

Ser. No. 617,563. Steelcote Manufacturing Company, St. Louis, Mo. Filed Aug. 10, 1951.

STEELCOTE LAY-TITE

No claim is made to the word "Lay-Tite" except in association with "Steelcote." Applicant claims ownership of Registrations Nos. 275,717, 297,019, 329,623, and 575,438.
For Rubber Base Paint in Liquid Form Particularly Designed for Use on Concrete Floors.
Claims use since 1941.

Ser. No. 620,293. Art-Cement Manufacturing Co., Miami, Fla. Filed Oct. 22, 1951.

ART-CEMENT

The drawing is lined for red and blue. No claim is made to the exclusive use of the word "Cement" except as shown in the drawing.
For Finishing Cement Paint in Dry Powdered Form.
Claims use since Aug. 1, 1923.

Ser. No. 624,218. Zolatone, Inc., Los Angeles, Calif., assignor to Paramount Paint & Lacquer Co., Los Angeles, Calif., a corporation of California. Filed Jan. 28, 1952.

Zolatone process

The word "Process" is disclaimed.
For Nitro-Cellulose Base Multi-Colored Lacquers.
Claims use since July 1, 1948.

Ser. No. 642,431. Thomas Van Yperen & Co., Fairlawn, N. J. Filed Feb. 18, 1953.

EPIFANES

For Marine Type Paints and Varnishes.
Claims use since on or about May 1, 1951.

Ser. No. 645,472. Elliott Paint & Varnish Company, Chicago, Ill. Filed Apr. 17, 1953.

WHITE VENEER

Applicant claims ownership of Registration No. 310,384.
For Ready-Mixed Paint and Liquid Paint Enamel.
Claims use since Jan. 5, 1933.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 598,128. United States Tobacco Company, Flemington, N. J., and New York, N. Y. Filed May 25, 1950.



The word "Scotch" is disclaimed apart from the mark as shown. The stippling shown on the drawing is for shading only.
For Snuff.
Claims use since Aug. 1, 1900.

Ser. No. 644,972. Garcia & Vega, Inc., New York, N. Y. Filed Apr. 9, 1953.



For Cigars.
Claims use since 1882.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 610,612. Bernard Pharmacal Co., Inc., New York, N. Y. Filed Feb. 28, 1951.

4-T PLUS

For Multiple Vitamin Preparation.
Claims use since Jan. 10, 1951.

Ser. No. 620,567. Don Baxter, Inc., Glendale, Calif. Filed Oct. 29, 1951. CONCURRENT USE with Serial No. 620,577 for the area comprising the States of California, Nevada, Arizona, Oregon, Washington, Idaho, Montana, Utah, New Mexico, Colorado, Wyoming, and the city of El Paso in the State of Texas, and in the Hawaiian Islands and Alaska.

PLASMA-VAC

The word "Plasma" is disclaimed apart from the mark as a whole.
For Solutions of Dextrose or Other Preservatives for Storing Plasma, Serum, or Other Blood Products.
Claims use since Aug. 8, 1942.

Ser. No. 620,577. Baxter Laboratories, Inc., Morton Grove, Ill. Filed Oct. 29, 1951. CONCURRENT USE with Serial No. 620,567 for the area comprising the District of Columbia, the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Maryland, Delaware, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Tennessee, Kentucky, Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri, Arkansas, Louisiana, North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, and Texas, excepting the city of El Paso in Texas, and including Puerto Rico, the Virgin Islands, and the Canal Zone.

Plasma-Vac

No claim is made to the word "Plasma" apart from the mark as shown.
For Solutions of Dextrose or Other Preservatives for Storing Plasma, Serum, or Other Blood Products.
Claims use since Oct. 28, 1939.

Ser. No. 641,653. Winthrop-Stearns Inc., New York, N. Y. Filed Feb. 2, 1953.

NTZ

For Decongestant, Antihistaminic and Antiseptic Preparation for the Relief of Congestion in Common Cold, Sinusitis, Allergic Rhinitis (Hay Fever and Allied Allergic Conditions).
Claims use since Aug. 18, 1952.

Ser. No. 641,755. Winthrop-Stearns Inc., New York, N. Y. Filed Feb. 4, 1953.

LEVOPHINE

Applicant claims ownership of Registration No. 434,232.
For Decongestant and Vasoconstrictor Preparation.
Claims use since Dec. 1, 1952.

Ser. No. 642,235. Merck & Co., Inc., Rahway, N. J. Filed Feb. 13, 1953.

STREPENVET

For Antibiotics for Veterinary Use.
Claims use since Jan. 21, 1953.

Ser. No. 642,551. Maurice A. Hendler, doing business under the name Hendirin Company, Los Angeles, Calif. Filed Feb. 20, 1953.

HENDIRIN

For Aspirin Tablets Containing Saccharin.
Claims use since July 22, 1952.

Ser. No. 643,807. Joseph Agosta, Astoria, N. Y. Filed Mar. 18, 1953.

SKINAL

For Antiseptic and Medicated Deodorant.
Claims use since Mar. 30, 1950.

Ser. No. 644,273. American Home Products Corporation, New York, N. Y., doing business as Wyeth Laboratories, Division of American Home Products Corporation, Philadelphia, Pa. Filed Mar. 27, 1953.

MANURONATE

For Sodium Polyanhydromannuronic Acid Sulfate for Anticoagulant Use.
Claims use since Jan. 16, 1953.

Ser. No. 644,323. Kirkman Pharmacal Co., Seattle, Wash. Filed Mar. 27, 1953.

MYODON

For Medicinal Preparation for the Relief of Smooth Muscle Spasms.
Claims use since Jan. 30, 1953.

Ser. No. 644,330. Midvale Chemical Company, Lodi, N. J. Filed Mar. 27, 1953.

PABASOTE

For Chemical Preparation for Control of Chronic Respiratory Disease in Chickens.
Claims use since on or about Jan. 12, 1953.

Ser. No. 644,344. Perry Laboratories, Detroit, Mich. Filed Mar. 27, 1953.

TOLOSYLATE

For Tablets for the Treatment of Rheumatic Disorders and Sore Muscles.
Claims use since June 16, 1952.

Ser. No. 644,459. Schenley Laboratories, Inc., New York, N. Y. Filed Mar. 30, 1953.

ACUPAN

For Somnifacient Product.
Claims use since Feb. 24, 1953.

Ser. No. 644,660. American Home Products Corporation, New York, N. Y., doing business as Wyeth Laboratories, Division of American Home Products Corporation, Philadelphia, Pa. Filed Apr. 3, 1953.

ALUDROX

Applicant claims ownership of Registrations Nos. 376,186 and 359,725.
For Antacid Preparation in Dosage Form.
Claims use since Mar. 23, 1953.

Ser. No. 644,679. Merck & Co., Inc., Rahway, N. J. Filed Apr. 3, 1953.

CORTICIN

For Combinations of Antibiotics and Hormonal Substances for Medicinal Use.
Claims use since Mar. 2, 1953.

Ser. No. 644,680. Merck & Co., Inc., Rahway, N. J. Filed Apr. 3, 1953.

CORTOBIOTIC

For Combinations of Antibiotics and Hormonal Substances for Medicinal Use.
Claims use since Jan. 20, 1953.

Ser. No. 644,681. Merck & Co., Inc., Rahway, N. J. Filed Apr. 3, 1953.

CORTOCILLIN

For Combinations of Antibiotics and Hormonal Substances for Medicinal Use.
Claims use since Mar. 3, 1953.

Ser. No. 644,682. Merck & Co., Inc., Rahway, N. J. Filed Apr. 3, 1953.

CORTOMYCIN

For Combinations of Antibiotics and Hormonal Substances for Medicinal Use.
Claims use since Jan. 22, 1953.

Ser. No. 644,683. Merck & Co., Inc., Rahway, N. J. Filed Apr. 3, 1953.

CORTOTRACIN

For Combinations of Antibiotics and Hormonal Substances for Medicinal Use.
Claims use since Jan. 22, 1953.

Ser. No. 644,758. Irwin, Neisler & Company, Decatur, Ill. Filed Apr. 6, 1953.

Vertavis-Phen

Applicant claims ownership of Registration No. 431,845.
For Tablets for the Treatment of Hypertension.
Claims use since Sept. 27, 1946.

Ser. No. 645,182. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Apr. 13, 1953.

COMBISTREP

For Antibiotic Preparation.
Claims use since Apr. 2, 1953.

Ser. No. 646,495. Clifton L. Sineath, Saluda, S. C. Filed May 5, 1953.

CLS

For Liniment for External Use.
Claims use since Mar. 12, 1953.

CLASS 19
VEHICLES

Ser. No. 574,896. Harry A. Cohen, West Berlin, N. J. Filed Mar. 4, 1949.



For Automobiles in Knocked Down Form Packaged and Sold as a Unit.
Claims use since Dec. 1, 1949.

Ser. No. 610,371. Maine Potato Growers, Inc., Presque Isle, Maine. Filed Feb. 21, 1951.



The words "Co-Operative Farm Service" and the representation of the map of the State of Maine are disclaimed apart from the mark shown.
For Automobiles, Trucks, Trailers, Trailer-Trucks.
Claims use since Aug. 12, 1948.

Ser. No. 627,512. Johns-Manville Corporation, New York, N. Y. Filed Apr. 3, 1952.

TRAILINERS

For Automotive Brake Blocks.
Claims use since Dec. 17, 1951.

Ser. No. 634,730. The Columbus Auto Parts Company, Columbus, Ohio. Filed Sept. 2, 1952.



For Vehicular Steering Connections With Universal or Ball and Socket Joints, Drag Links, and Tie Rods, and Parts Therefor.
Claims use since on or about June 10, 1952.

Ser. No. 635,642. Ford Motor Company Limited, London, England. Filed Sept. 23, 1952.

Zephyr

Applicant claims ownership of United States Registration No. 381,453.
For Passenger Automobiles and Structural Parts Thereof.
Claims use since on or about October 1950, in Great Britain; and since on or about February 1952, in commerce between Great Britain and the United States.

Ser. No. 646,098. Alfa Romeo Società per Azioni, Milan, Italy. Filed Apr. 29, 1953.

DISCO

Priority under Sec. 44(d). Italian application filed Dec. 13, 1952, Reg. No. 111,219, dated Apr. 16, 1953. The word "Disco" means "Disc" in English.
For Car Bodies, Motor Cars, Motor Cycles, Bicycles, Motor Trucks.

Ser. No. 647,448. Roadcraft Corporation, Gardena, Calif. Filed May 21, 1953.

Roadcraft

For House Trailers.
Claims use since Jan. 23, 1953.

CLASS 21
ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 620,591. Circofire Spark Plug Company, Hamtramck, Mich. Filed Oct. 29, 1951.

CIRCOFIRE

The word "Fire" is disclaimed apart from the mark as shown.
For Spark Plugs for Internal Combustion Engines.
Claims use since Sept. 24, 1951.

Ser. No. 633,187. Wells Manufacturing Corporation, Fond du Lac, Wis. Filed July 28, 1952.



For Automotive Ignition Replacement Parts—Namely, Distributor Contact Points, Distributor Caps, Distributor Rotors, Condensers, Starter Switches, Stoplight Switches, Voltage Regulators, Generator Relay Cutouts, Headlight Relays, Generator and Starter Brushes, Generator and Starter Bushings and Ignition Coils.
Claims use since Jan. 2, 1940.

Ser. No. 637,979. Ajax Engineering Corporation, Trenton, N. J. Filed Nov. 13, 1952.

AJAXOMATIC

For Induction Furnaces for Melting and Casting Metals.
Claims use since October 1952.

CLASS 22
GAMES, TOYS, AND SPORTING GOODS

Ser. No. 612,814. Vic Moran, Bradford, Pa. Filed Apr. 18, 1951.

"Picture your Savings"

For Toy Coin Banks.
Claims use since Jan. 2, 1951.

Ser. No. 620,551. The Pioneer Company, Chicago, Ill. Filed Oct. 27, 1951.

Polaris

For Electric Switch Mechanism for Switching Tracks for Model Trains.
Claims use since Oct. 22, 1951.

Ser. No. 643,693. Lindfelt Glove Manufacturing Co., Des Moines, Iowa. Filed Mar. 16, 1953.

Champion

Applicant claims ownership of Registration No. 274,410.
For Handball Gloves, Golf Gloves, Skiing Gloves, and Hunting Gloves.
Claims use since March 1928.

Ser. No. 646,901. The Sun Rubber Company, Barberton, Ohio. Filed May 12, 1953.

Betty-Bows

For Dolls.
Claims use since on or about Mar. 19, 1953.

Ser. No. 646,905. The Sun Rubber Company, Barberton, Ohio. Filed May 12, 1953.

Tod-L-Twins

The word "Twins" is hereby disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 572,062.
For Dolls.
Claims use since on or about Mar. 11, 1953.

Ser. No. 647,486. Denkert Incorporated, Johnstown, N. Y. Filed May 22, 1953.

Pro Maker

For Fielders' Gloves, Catchers' Mitts, Basemen's Mitts, Basketballs, and Footballs.
Claims use since May 8, 1953.

Ser. No. 649,321. Jimmy Nelson Enterprises, Inc., Chicago, Ill. Filed June 24, 1953.

FARFEL

For Ventriloquist Dummies.
Claims use since Mar. 18, 1953.

Ser. No. 649,523. Marshall-Wells Company, Duluth, Minn. Filed June 29, 1953. (Sec. 2f.)

PACKARD

Applicant claims ownership of Registration No. 374,300.
For Fishing Lines, Fishing Rods, and Fishing Reels.
Claims use since Nov. 14, 1938.

CLASS 23
CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 604,102. Nordberg Manufacturing Company, Milwaukee, Wis. Filed Sept. 27, 1950.

STA-NU-TRAL

For Internal Combustion Power Plants for Small Boats.
Claims use since on or about Dec. 1, 1949.

Ser. No. 618,157. Embart Manufacturing Company, Hartford, Conn. Filed Aug. 28, 1951.



For Dicing Machinery for Dicing, Stamping, Punch Pressing, and Similarly Fabricating Metallic, Plastic, and Fibrous Materials, and Parts of Such Machinery.
Claims use since Nov. 12, 1931.

Ser. No. 622,903. William Moss & Sons Limited, London, England. Filed Dec. 27, 1951.

BEANSTALK

Applicant claims ownership of British Registration No. 696,642, dated Mar. 8, 1951.
For Mobile Work Platforms Which May Be Raised and Lowered by Hand and/or Power Operated Means.

Ser. No. 644,735. Clipper Manufacturing Company, Kansas City, Mo. Filed Apr. 6, 1953.

"CBR"

For Cutting Blades for Masonry Saws.
Claims use since Mar. 12, 1953.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 617,090. J. E. Martin Equipment Corporation, Buffalo, N. Y., now by change of name Martin Equipment Corporation, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a corporation of Ohio. Filed July 28, 1951.

SAFE T SOLV

No claim is made to the notation "Safe T" apart from the mark as shown.
For Dry-Cleaning Machines.
Claims use since June 20, 1951.

Ser. No. 639,847. X. S. Smith, Inc., Red Bank, N. J. Filed Dec. 20, 1952.

Tuff-Fab

The word "Tuff" is disclaimed apart from the mark as shown.
For Pads Formed of Metallic Filaments for Garment Pressing Machines.
Claims use since Aug. 25, 1952.

Ser. No. 639,848. X. S. Smith, Inc., Red Bank, N. J. Filed Dec. 20, 1952.

Twin-Fab

The word "Twin" is disclaimed apart from the mark as shown.
For Pads Formed of Metallic Filaments for Garment Pressing Machines.
Claims use since Aug. 25, 1952.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 620,542. Illinois Testing Laboratories, Inc., Chicago, Ill. Filed Oct. 27, 1951.

PYROTROL

For Electrical Temperature Measuring Instruments and Parts Thereof.
Claims use since Sept. 18, 1951.

Ser. No. 629,379. Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Filed May 8, 1952.

WEATHERCASTER

For Temperature Responsive Electric Resistors for Use in Heating Systems.
Claims use since Feb. 28, 1952.

Ser. No. 643,895. J. E. Davis, Philadelphia, Pa. Filed Mar. 19, 1953.

KYOKKO

For X-Ray Screens.
Claims use since January 1952.

Ser. No. 643,912. R. Lowenbaum Manufacturing Co., St. Louis, Mo. Filed Mar. 19, 1953.

FASHION-O-RAMA

For Photographic Projectors and Projection Screens.
Claims use since Feb. 16, 1953.

Ser. No. 643,938. Bell & Howell Company, Chicago, Ill. Filed Mar. 20, 1953.

Two Twenty One

For Motion Picture Projectors.
Claims use since Sept. 27, 1952.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 586,596. Edwin D. Foster, New York, N. Y. Filed Oct. 20, 1949.

VAC-BAG

Applicant disclaims the word "Bag" apart from the mark as shown.
For Porous Paper Bags for Filtering and Collecting Dust in Vacuum Cleaners.
Claims use since June 12, 1949.

Ser. No. 604,887. Taylor Freezer Corporation, Rockton, Ill. Filed Sept. 26, 1950. (Sec. 2f.)

Taylor FREEZER

Applicant disclaims the word "Freezer" separate and apart from the mark as shown. Applicant claims ownership of Registration No. 273,057.
For Ice Cream Freezers and Parts Thereof.
Claims use since May 29, 1929.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 595,703. Art-Lloyd Metal Products Corp., Brooklyn, N. Y. Filed Apr. 14, 1950.

Hom Ardly

For Combination Utility Table and Cabinet.
Claims use since Feb. 21, 1950.

Ser. No. 639,500. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern Brothers

For Living Room Furniture—Namely, Sofas, Loveseats, Sectional Loveseats, Upholstered Chairs, Occasional Chairs, Hostess Chairs, Open Arm Chairs; Bed Room Furniture—Namely, Single Dressers and Mirrors, Double Dressers and Mirrors, Triple Dressers and Mirrors, Chests, Chests on Chests, Highboys, Night Tables, Commodes, Beds, Vanities and Mirrors, Benches, Poudre Tables, Bookcase Headboards, Chairs; Dining Room Furniture—Namely, China Cabinets, Corner Cabinets, Breakfront China Cabinets, Hutch China Cabinets, Buffets, Credenza Buffets, Servers, Serving Carts, Side Chairs, Arm Chairs, Table Chairs, Drop Leaf Tables, Console Tables; Kitchen Furniture—Namely, Dinette Tables, Chairs, Corner Cabinets, Buffets, Drop Leaf Tables, Serving Carts; and Bath Room Furniture—Namely, Dressing Tables, Benches, Vanities, Commode Dressers; Smoking Stands, Bed Springs, Mattresses, Pillows, Cushions, Clothes Racks, Window Shades, Venetian Blinds, and Bassinets.
Claims use since 1867.

Ser. No. 641,595. Atkinson-Davis Corporation, Claremont, N. H. Filed Feb. 2, 1953.



The word "Pine" is disclaimed apart from the mark as shown.
For Furniture—Namely, Cobblers' Benches.
Claims use since Oct. 23, 1952.

Ser. No. 643,430. Maxwell Royal Chair Co. Inc., Hickory, N. C. Filed Mar. 10, 1953.

ROCK-AWAY

Applicant disclaims the word "Rock" apart from the mark as shown.
For Upholstered Platform Rockers.
Claims use since Nov. 15, 1951.

Ser. No. 644,834. Eclipse Sleep Products Inc., Brooklyn, N. Y. Filed Apr. 7, 1953.

"OTTOBED"

For Couch Beds.
Claims use since Feb. 26, 1953.

Ser. No. 645,052. The National Plastic Products Company, Odenton, Md. Filed Apr. 10, 1953.

gardettes

For Furniture Leg Caps.
Claims use since Mar. 25, 1953.

Ser. No. 645,335. Richard M. Phillips, East Peoria, Ill. Filed Apr. 15, 1953.

Flying Saucer

For Chair of Metal and Canvas.
Claims use since Mar. 5, 1953.

Ser. No. 645,653. Marian V. Lichtman, doing business as Marlite Co., Queens Village, N. Y. Filed Apr. 21, 1953.

SPICENETTE

For Utility, Kitchen, and Bathroom Cabinets.
Claims use since Nov. 29, 1952.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 646,007. O. K. Ko-Op Rubber Welding System, Littleton, Colo. Filed Apr. 27, 1953.



The lining on the drawing represents a gray color.

For Tire Recapping and Retreading Materials—Namely, Camel Back, Retreading Rubber Stock, Tire Stripping Stock.

Claims use since Mar. 1, 1937.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 635,077. Avedis Zildjian Co., Quincy, Mass. Filed Sept. 9, 1952.



Applicant claims ownership of Registration No. 297,750.

For Cymbals.

Claims use since Dec. 29, 1930.

CLASS 37

PAPER AND STATIONERY

Ser. No. 542,007. Crown Zellerbach Corporation, doing business as The National Paper Products Co. and Nata Products Company, San Francisco, Calif. Filed Nov. 22, 1947. (Sec. 2f.)

NARRO-TUK

For Paper Towels.

Claims use since Jan. 1, 1939.

Ser. No. 600,037. Digby Products Ltd., White Plains, N. Y. Filed June 30, 1950.

3 IN 1
REMOVO RING

The word "Ring" is disclaimed apart from the mark as shown on the drawing. Applicant claims ownership of Registration No. 441,505.

For Leather Loose Leaf Binders, Removable Ring Binders, and Loose Leaf Books.

Claims use since April 1947.

Ser. No. 634,076. Dokeris and Argyris, Corona, N. Y. Filed Aug. 18, 1952.

Heart Strings

The right to the exclusive use of the word "Strings" apart from the complete mark "Heart Strings" is hereby disclaimed.

For Correspondence Envelopes.

Claims use since Apr. 18, 1948.

Ser. No. 635,450. Wisconsin Tissue Mills, Menasha, Wis. Filed Sept. 18, 1952.

Chateau

For Paper Napkins.

Claims use since September 1937.

CLASS 39

CLOTHING

Ser. No. 546,960. Edward A. David, New York, N. Y. Filed Jan. 14, 1948.

Sherry Ann

For Women's and Misses' Wash Dresses.

Claims use since Sept. 12, 1947.

Ser. No. 550,535. Marshall, Meadows & Stewart, Inc., Auburn, N. Y. Filed Feb. 25, 1948. (Sec. 2f.)

Casual Classics

For Women's Shoes.

Claims use since June 1, 1941.

Ser. No. 607,333. Kaufman Knitting Company, Minneapolis, Minn. Filed Dec. 6, 1950.

TUB-DUDS
by
Nan Dorsey

The name "Nan Dorsey" is fanciful. "Tub-Duds" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 538,423.

For Ladies', Girls', and Children's Sweaters, Skirts, Blouses, Skirt and Blouse Combinations, Slacks, Slack Suits, Shirts, T-Shirts, Jackets, and Bathing Suits.

Claims use since on or about Nov. 17, 1950.

Ser. No. 623,735. Sears, Roebuck and Co., Chicago, Ill. Filed Jan. 17, 1952.

WONDER-S-T-R-E-T-C-H

Applicant disclaims exclusive rights in the word "Stretch."

For Corsetry—Namely, Girdles and Panty-Girdles.

Claims use since on or about Jan. 15, 1947.

Ser. No. 626,395. Manufactures de Senones (Vosges) Société à Responsabilité Limitée, Paris, France. Filed Mar. 13, 1952.

Antifroiss

Applicant claims ownership of French Registration No. 467,691, dated Mar. 2, 1950.

For Junior Misses', Misses', and Ladies' Coats, Dresses, Gowns for Outerwear, Suits, Jackets, Boleros, Evening Capes; Sport Ensembles Made up of Blouses, Vests, and Skirts; Shawls and Scarfs; Pullovers, Cardigans, and Sweaters; Coats, Jackets, Capes, Stoles, Scarfs, Muffs, and Collars, All Made of Fur; Underwear, Stockings, Shoes, and Hats; Men's and Boys' Wear—Namely, Coats, Dressing Gowns, Suits, Jackets, Evening Capes, Sport Ensembles Made Up of Jackets, Vests, and Pants; Slacks; Knitted Scarfs, Pullovers, Sweaters, Cardigans; Coats, Jackets, Scarfs, and Collars, All Made of Fur; Underwear, Anklets, Socks, and Stockings; Shoes, Playshoes, Slippers, Sport Shoes; Hats; Neck Ties, Bow Ties; Gloves Made of Fabric, Leather, and Combinations Thereof; Outer Shirts, Shorts, Beach Coats, Briefs, Pajamas, Robes, Pajama Coats; Bath Robes, Handkerchiefs; T-Shirts; Ski Suits, Windbreakers, Swimming Trunks, Swimming and Bathing Suits.

Ser. No. 627,611. Westex Boot and Shoe Company, Inc., Wichita Falls, Tex. Filed Apr. 4, 1952.

ZERO

For Particular Type of Boot Toes.

Claims use since Aug. 2, 1950.

Ser. No. 627,807. Cedar Shoe Company, Cedarburg, Wis. Filed Apr. 9, 1952.

Tagalongs

For Children's Shoes Formed Principally of Leather.

Claims use since Sept. 6, 1951.

Ser. No. 629,960. Shoe Corporation of America, Columbus, Ohio. Filed May 20, 1952.

Sport Stars

No claim is made to the word "Sport" apart from the mark in its entirety.

For Men's, Women's, and Children's Bowling Shoes, Football Shoes, Baseball Shoes, and Basketball Shoes.

Claims use since Mar. 24, 1952.

Ser. No. 637,729. Stone-Tarlow Co., Inc., Brockton, Mass. Filed Nov. 6, 1952.

Antonio De Falco
Imperials

"Antonio De Falco" is not the name of any person, living or dead, but it is a fanciful name. Applicant claims ownership of Registration No. 334,082.

For Men's Shoes.

Claims use since December 1949.

Ser. No. 637,745. Bermuda Knitwear Corp., New York, N. Y. Filed Nov. 7, 1952.

Dovelaine

For Ladies' Knitted Sweaters, Suits, Skirts, and Blouses Made in Whole or in Substantial Part of Wool.

Claims use since Oct. 15, 1952.

Ser. No. 639,317. Deering, Milliken & Co., Inc., New York, N. Y. Filed Dec. 11, 1952.

TRANSEASON

For Men's, Women's, and Children's Outergarments—Namely, Overcoats, Topcoats, Raincoats, Suits, Coats, and Jackets.

Claims use since Oct. 6, 1952.

Ser. No. 641,373. Endicott Johnson Corporation, Endicott, N. Y. Filed Jan. 27, 1953.

CHRO-TAN

The word "Tan" is hereby disclaimed. Applicant claims ownership of Registration No. 389,353.

For Shoes of Leather, or a Combination of Leather, Rubber, and Fabric for Men, Women, and Children; Also for Leather Insoles.

Claims use since on or about Oct. 1, 1952.

Ser. No. 642,524. College Town Sportswear, Boston, Mass. Filed Feb. 20, 1953.

DESK "N" DATE

The word "Date" is disclaimed apart from the mark as shown.

For Skirts, Culottes, Jackets, Caps, Suits, Capes, Coats, Vests, Shorts, Blouses, Slacks, Pedal Pushers, and Dresses.

Claims use since Feb. 4, 1953.

Ser. No. 643,451. Venus Foundation Garments, Inc., Chicago, Ill. Filed Mar. 10, 1953.



Applicant claims ownership of Registration No. 211,096.
For Girdles, Panty Girdles, Corselettes (Also Referred to as Combination or All-In-One Garments), Garter Belts, Brassières, Bandeaux, and Bandettes (Articles of Women's Clothing for Confining or Shaping the Bust and Extending Only Slightly or Not at All Below the Bust).
Claims use since June 10, 1951.

Ser. No. 644,104. J. Edwards & Co., Philadelphia, Pa., assignor to J. Edwards & Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania. Filed Mar. 24, 1953.

SUPER-PEDIC

Applicant claims ownership of Registration No. 262,966.
For Women's, Misses', Children's, Infants', and Babies' Shoes.
Claims use since Jan. 8, 1953.

Ser. No. 644,125. London Character Shoes Corporation, New York, N. Y. Filed Mar. 24, 1953. (Sec. 2f as to "London.")

London Character Shoes

The word "Shoes" is disclaimed apart from the mark shown. Applicant claims ownership of Registrations Nos. 136,518, 170,717, and others.
For Shoes Made of Leather, Fabric, or Rubber or Combination of Such Materials, for Men and Young Men.
Claims use since May 24, 1919.

Ser. No. 644,203. Wellco Shoe Corporation, Waynesville, N. C. Filed Mar. 25, 1953.

Wellcork

For Shoes, Sandals, and Soles for Men, Women, and Children.
Claims use since Feb. 27, 1953.

Ser. No. 644,383. Belleville Shoe Manufacturing Company, Belleville, Ill. Filed Mar. 30, 1953.

Game Shooter

For Hunting Boots for Men, Women, and Children.
Claims use since Sept. 5, 1940.

Ser. No. 644,501. Perfection Frocks, Inc., New York, N. Y. Filed Mar. 31, 1953. (Sec. 2f.)

House'n Garden

Applicant claims ownership of Registrations Nos. 391,216 and 395,962.
For Ladies' House Dresses and Aprons.
Claims use since Aug. 1, 1940.

Ser. No. 644,979. General Shoe Corporation, Nashville, Tenn. Filed Apr. 9, 1953.

Datebook

For Shoes, for Women and Children, Made of Leather, Fabric, and Combinations Thereof.
Claims use since Jan. 3, 1952.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 644,696. Tilton Industries, Inc., Montpelier, Vt. Filed Apr. 3, 1953.

Jiffy-Lox

No claim is made to the term "Lox" apart from the remainder of the mark.
For Safety Pins.
Claims use since Mar. 19, 1953.

CLASS 41

CANES, PARASOLS, AND UMBRELLAS

Ser. No. 636,942. Irving D. Rich, doing business as The Personal Pencil Company, New York, N. Y. Filed Oct. 21, 1952.

Singin' in the Rain

For Umbrellas.
Claims use since Oct. 6, 1952.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 623,069. Pepperell Manufacturing Company, Boston, Mass. Filed Jan. 2, 1952. (Sec. 2f.)

Snug Fit

For Bed Sheets.
Claims use since Sept. 14, 1951.

Ser. No. 624,154. Puritan Piece Dye Works, Paterson, N. J. Filed Jan. 26, 1952.



Pur-Ngora

For Viscose Rayon, Acetate Rayon, Nylon, Wool, Cotton, Silk, and Saran Spun Fabrics.
Claims use since Sept. 15, 1951.

Ser. No. 625,774. United Elastic Corporation, Easthampton, Mass. Filed Feb. 29, 1952.



The drawing includes lined subject matter which has been employed for shading purposes. Applicant hereby disclaims the word "Elastic" used apart from the mark as shown in the drawing.
For Elastic Fabrics.
Claims use since Nov. 1, 1947.

Ser. No. 633,797. United Elastic Corporation, Easthampton, Mass. Filed Aug. 12, 1952. (Sec. 2f.)

GARMENTLIFE

Applicant claims ownership of Registration No. 275,078.
For Narrow Elastic Webbing.
Claims use since Apr. 11, 1930.

Ser. No. 633,798. United Elastic Corporation, Easthampton, Mass. Filed Aug. 12, 1952. (Sec. 2f.)

GARMENTLIFE

Applicant claims ownership of Registration No. 274,529.
For Wide Elastic Fabrics.
Claims use since Apr. 11, 1930.

Ser. No. 634,850. F. C. Huyck & Sons, Rensselaer and Albany, N. Y. Filed Sept. 4, 1952.

KENWOOD



Applicant claims ownership of Registrations Nos. 92,428, 149,409, and others.
For Blankets (Including Baby, Bed, and Camping Ones), Automobile and Lap Robes, Steamer Rugs, Afghans, Bath Mats, and Textile Floor Rugs.
Claims use since Feb. 1, 1919.

Ser. No. 640,288. M. Lowenstein & Sons, Inc., New York, N. Y. Filed Jan. 2, 1953.

Signature FABRICS

The generic word "Fabrics" is hereby disclaimed apart from the mark shown on the drawing.
For Piece Goods of Cotton, Rayon, and Combinations Thereof.
Claims use since May 16, 1952.

Ser. No. 640,787. Ben Druckerman & Company, Inc., New York, N. Y. Filed Jan. 15, 1953.

BENDÉE

For Linen Fabrics.
Claims use since Feb. 1, 1948.

Ser. No. 643,531. Arkwright Merchandising Corporation, New York, N. Y. Filed Mar. 12, 1953.

Charm House

Applicant claims ownership of Registration No. 539,930.

For Blankets of Wool, Cotton, and Combinations Thereof, Bed Sheets, Cotton and Linen Sheeting, Pillow Cases, and Towels.

Claims use since June 2, 1944.

Ser. No. 644,052. Mooresville Mills, Inc., Mooresville, N. C. Filed Mar. 23, 1953.

TERRIER TERRY

Applicant disclaims the right to exclusive use of the word "Terry" apart from the mark as shown.

For Piece Goods Made From Terry Cloth Formed From Cotton and/or Synthetic Fibers.

Claims use since Mar. 13, 1953.

Ser. No. 645,687. Aldens, Inc., Chicago, Ill. Filed Apr. 22, 1953. (Sec. 2f as to "Alden.")

ALDEN HOUSE

No claim is made to the exclusive use of the word "House" apart from the mark shown in the drawing. Applicant claims ownership of Registration No. 92,028.

For Bed Sheeting in the Piece; Upholstery Fabrics Made of Cotton, and Rayon; Bed Sheets; Pillow Cases; Bed Spreads; Comforters, and Blankets Made of Wool and Cotton, and Mixtures Thereof; Towels; Toweling in the Piece; Wash Cloths; Napkins; Window Draperies; Window Curtains; Textile Rugs, Carpets, and Carpeting; Bath Mats; and Bath Mat and Lid Cover Sets.

Claims use since June 23, 1947, on the mark as shown; and since 1892, on the word "Alden."

Ser. No. 645,829. Penco Fabrics, Inc., New York, N. Y. Filed Apr. 23, 1953.

Silver Twill

For Textile Fabrics of Cotton, Silk, and Synthetic Fibres and Combinations Thereof.

Claims use since Feb. 17, 1953.

Ser. No. 645,897. K & L Auto Upholstering Company, Washington, D. C. Filed Apr. 24, 1953.

PERMASAN

For Textile Fabrics Woven of Plastic Yarn.

Claims use since on or about Mar. 3, 1953.

Ser. No. 646,978. Joseph Bancroft & Sons Co., Wilmington, Del. Filed May 14, 1953.

ERLABA

For Fabrics of Cotton and of Synthetic Fibers, Including Rayon and Nylon, and Combinations Thereof.

Claims use since May 7, 1953.

Ser. No. 647,268. Courtaulds Limited, London, England. Filed May 19, 1953.

ST MARTINS

Priority under Sec. 44(d). British application filed Dec. 8, 1952, Registration No. 712,950, dated Dec. 8, 1952.

For Woven Bolting Cloth in the Piece Made Wholly of Nylon Yarns or Nylon Single Filament, for Use in Sieving Powders and Granular Material and Screen Printing.

CLASS 43
THREAD AND YARN

Ser. No. 643,759. Facile Corporation, Paterson, N. J. Filed Mar. 17, 1953.

FACILON

Applicant claims ownership of Registrations Nos. 409,244, 410,056, and 562,164.

For Metallic Yarn.

Claims use since Jan. 28, 1953.

Ser. No. 646,456. Coats & Clark Inc., New York, N. Y. Filed May 5, 1953.

REDA

For Thread.

Claims use since on or about Feb. 27, 1953.

CLASS 44
DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 642,168. Donald F. Rohlfs, Bridgehampton, N. Y. Filed Feb. 12, 1953.

Secodent

For Powder Containing Calcium Hydroxide and Thymol (as Active Ingredients) for Use in Pulp Capping and Cavity Lining.

Claims use since Sept. 4, 1950.

CLASS 45
SOFT DRINKS AND CARBONATED WATERS

Ser. No. 641,337. The Shasta Water Company, San Francisco, Calif. Filed Jan. 26, 1953.

SHASTA

"IN NATURE'S SHASTA!"

Applicant claims ownership of Registrations Nos. 74,564, 210,722, and others.

For Sparkling Water; and Non-Alcoholic, Maltless Beverages Sold as Soft Drinks and Also Sold as Mixers.

Claims use since Jan. 14, 1953.

CLASS 46
FOODS AND INGREDIENTS OF FOODS

Ser. No. 612,114. Blevins Popcorn Company, Inc., doing business as Blevins Popcorn Company, Nashville, Tenn. Filed Apr. 2, 1951.

from Blevins famous Popcorn Village

The drawing is lined for red, but color is not claimed as a feature of the mark. The words "Popcorn" and "From Blevins Famous" are disclaimed apart from the mark. Applicant claims ownership of Registration No. 531,687.

For Unpopped Popcorn, Oil To Be Used in Popping Corn, Salt and Artificial-Butter-Flavored Salt.

Claims use since Jan. 3, 1950.

Ser. No. 631,094. D. F. o K. Lynfrost A/S, Esbjerg, Denmark. Filed June 12, 1952.

D.F. oK LYNFROST A/S ESBJERG DENMARK BRAND

The terms "A/S" and "Brand" are hereby disclaimed apart from the mark as shown. The sails appearing on the drawing are lined to indicate the color red.

For Fresh Frozen Flounder and Haddock Fillets.

Claims use since June 30, 1950; and use in commerce between foreign nations and the United States since June 30, 1950.

Ser. No. 633,169. Rice Growers Association of California, Sacramento, Calif. Filed July 28, 1952.

R.G.A.

Applicant claims ownership of Registration No. 553,836.

For Packaged Rice for Human Consumption and Rice Bran Oil Meal Used for Poultry and Cattle Feed.

Claims use since Feb. 14, 1934.

Ser. No. 633,715. J. S. Danenberg, doing business as Danny Danenberg, El Centro, Calif. Filed Aug. 11, 1952.

SILO

For Fresh Vegetables.

Claims use since July 10, 1952.

Ser. No. 634,148. The W. E. Long Co., Chicago, Ill. Filed Aug. 19, 1952.

Famlee

For Bread.

Claims use since June 14, 1952.

Ser. No. 634,149. The W. E. Long Co., Chicago, Ill. Filed Aug. 19, 1952.

Famlee

For Bread.

Claims use since June 14, 1952.

Ser. No. 634,277. F. H. Soldwedel Co., Pekin, Ill. Filed Aug. 21, 1952.

del-O

For Frozen Desserts, Composed of Milk and Vegetable Fat (Artificial Ice Cream).

Claims use since Aug. 15, 1951.

Ser. No. 635,086. Ellen B. Geld, Lucas, Ohio, assignor to Louis Bromfield, Lucas, Ohio. Filed Sept. 10, 1952.

For Wild Blackberry Jelly, Marmalade, Peach Butter, Plum Butter, Grape Butter, Damson Butter, Grape Jelly, Apple Butter, and Crab Apple Jelly.

Claims use since January 1952.

Ser. No. 635,191. Mother's Food Products, Inc., Newark, N. J. Filed Sept. 12, 1952.

Mother's

The drawing is lined for green, yellow, and black.

For Sweet Pickled Pimentos.

Claims use since Aug. 27, 1952.

Ser. No. 637,603. Guy C. Myers, doing business as Cranguyma Farms Products, Long Beach, Wash. Filed Nov. 4, 1952.

Cranguyma FARMS

The use of the word "Farms" is disclaimed apart from the mark as shown.

For Cranberry Jam and Jelly and Cranberry Syrup for Food Purposes.

Claims use since July 21, 1952.

Ser. No. 639,093. Winn & Lovett Grocery Company, Jacksonville, Fla. Filed Dec. 5, 1952.

KWIK V CHEK

For Canned Fruits and Canned Vegetables.

Claims use since Nov. 1, 1952.

Ser. No. 641,126. Collins, Lee Company, Chelsea, Mass. Filed Jan. 22, 1953.

COLEECO

For Fresh Fish—Namely, Fresh Haddock Fillets; for Salted Fish—Namely, Boneless Salt Codfish, Fine Cut Codfish (Prepared With Salt), Salt Codfish Loins, Salted Codfish, Salt Mackerel Fillets; for Frozen Fish—Namely, Quick Frozen Flounder Fillets, Frozen Flounder Fillets, Grey Sole Fillets (Frozen); for Fish Cakes—Namely, Codfish Cakes.

Claims use since 1929.

Ser. No. 641,632. Frank M. Nola, doing business as Peter Nola & Son, San Jose, Calif. Filed Feb. 2, 1953. (Sec 2f.)

SUNDAE-SWEET

For Fresh Cherries.

Claims use since May 1943.

Ser. No. 644,507. Jacques Makowsky, Pomfret Center, Conn. Filed Mar. 31, 1953.



Applicant disclaims the words "It's a Hen" apart from the mark as shown.

For Dressed Poultry.

Claims use since Dec. 1, 1950.

Ser. No. 645,786. N. Dorman & Co., Inc. (N. Y.), New York, N. Y. Filed Apr. 23, 1953.



Applicant claims ownership of Registration No. 291,831.

For Cheese.

Claims use since Feb. 10, 1931.

Ser. No. 647,082. Thomas J. Lipton, Inc., Hoboken, N. J. Filed May 15, 1953.

ROYCO

Applicant claims ownership of Registration No. 304,758.

For Soup Mixes.

Claims use since Nov. 21, 1947.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 582,299. The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio. Filed July 21, 1949. (Sec. 2f as to "Goodrich.")



The name "Goodrich" is the proper name of one of the founders of applicant's business. Applicant claims ownership of Registrations Nos. 64,996, 65,422, and others.

For Printers' Blankets Made in Whole or in Part of Rubber or of Rubbery Resilient Material.

Claims use since May 1946 as to the mark shown; and since 1880 as to "Goodrich."

Ser. No. 631,924. Fratelli Reguitti s. r. l., Agnosine, Brescia, Italy. Filed June 28, 1952.



For Skirt Hangers and Coat Hangers, All Made From Wood and Plastic Materials, a Trouser Hanger Having a Hinged Member Which Clamps Over the Trousers To Keep Them in Creased Condition.

Claims use since August 1949.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 601,638. A. Niggi & C., Imperia-Oneglia, Italy. Filed Aug. 2, 1950.



The words "Lavanda," and "Fragrante Come il Fiore" are disclaimed. Applicant claims ownership of Italian Registration No. 58,434, dated Jan. 26, 1939.

For Face Powders, Talcum Powders, Bath Salts, Toilet Waters, and Perfumes.

Ser. No. 630,963. George S. Sanders, New York, N. Y., assignor to Sanders & Steinberg, New York, N. Y., a firm composed of George S. Sanders and Rudolph Steinberg. Filed June 9, 1952.

LIPALETTE

For Face Make-Up Ensemble Comprising Lip Rouge With Brush for Applying It, Face Rouge, and Eye Shadow.

Claims use since Mar. 28, 1952.

Ser. No. 631,742. Le Anne Toiletries, also trading as Le Anne Products, Syracuse, N. Y. Filed June 25, 1952.

Le Anne

For Toiletries—Namely, Perfumes, Colognes, Dusting Powders, Bath Salts, Face Powders, Lipsticks, Skin and Deodorant Creams, and Skin Lotions.

Claims use since Sept. 15, 1948.

Ser. No. 631,954. Vix Laboratories, Inc., New York, N. Y. Filed June 28, 1952.



The words "Tea Rose" are disclaimed apart from the mark as shown.

For Facial Cream.

Claims use since Apr. 29, 1952.

Ser. No. 633,852. Charles M. McCarthy, doing business under the name of "Prof. McCarthy," Miami Beach, Fla. Filed Aug. 13, 1952.

PROF. MAC'S SEMINOLE INDIAN OIL

The word "Oil" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 274,481.

For Sun Tan Oil.

Claims use since 1930.

Ser. No. 638,835. Colgate-Palmolive-Peet Company, Jersey City, N. J. Filed Dec. 2, 1952.

STAFF

Applicant claims ownership of Registration No. 558,201.

For After Shave Lotion.

Claims use since Oct. 27, 1952.

Ser. No. 644,872. Helena Rubinstein, Inc., New York, N. Y. Filed Apr. 7, 1953.

NOA-NOA

For Perfume and Eau de Parfum.

Claims use since Jan. 19, 1953.

Ser. No. 645,384. Bourjois, Inc., New York, N. Y. Filed Apr. 16, 1953.

Two's Company

For Perfume, Cologne, and Cologne Stick.

Claims use since Mar. 12, 1953.

Ser. No. 645,997. Lucky Tiger Manufacturing Co., Kansas City, Mo. Filed Apr. 27, 1953.

dapper

For Hair Dressing and Conditioner.

Claims use since Apr. 8, 1953.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 618,418. Virginia-Carolina Chemical Corporation, Richmond, Va. Filed Sept. 5, 1951.

V-C KLEER

Applicant claims ownership of Registrations Nos. 348,486 and 348,487.

For Synthetic Detergent in Powder Form.

Claims use since June 7, 1951.

Ser. No. 625,314. Kali Manufacturing Co., Philadelphia, Pa. Filed Feb. 7, 1952. (Sec. 2f.)

KALI

Applicant claims ownership of Registration No. 107,711.
For Cleaning Fluids for Machinery, Cleaning Fluids for the Textile Industry Including a Cleaner for Textile Needles, Sinkers, Bits, and the Like, and Soap Intended for Use by the Textile Industry.
Claims use since Nov. 1, 1914.

Ser. No. 633,555. Burton S. Price, doing business as Enzrust Co., Newton, Mass. Filed Aug. 6, 1952.

ENZRUST

No claim of exclusive use right is herein made for the word "Rust" apart from the mark as shown.
For Concentrated Heavy-Duty Cleaner, Degreaser, and Radiator and Block Flush, With Rust-Inhibiting Properties, in Liquid and in Jelly Forms, and Being Useful for General Cleaning and Degreasing and Including Particularly Cleaning and Washing Automotive Motors, Radiators, Blocks, Mechanical Parts, White-Walled Tires, Cars, Floors, Toilets, and Hands.
Claims use since Apr. 4, 1951.

Ser. No. 640,128. Linnea Perfumes, Inc., Chicago, Ill. Filed Dec. 29, 1952.

linnea

CHLORO-FLUFF SHAMPOO

The term "Shampoo" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 425,520.
For Liquid Shampoo.
Claims use since June 11, 1952.

Ser. No. 640,277. Inter-Coastal Paint Corporation, East St. Louis, Ill. Filed Jan. 2, 1953.

CONSOL

For Chemical Product for Removing Rust and Scale From Metal Surfaces.
Claims use since Jan. 1, 1926.

Ser. No. 643,787. The Procter & Gamble Company, Cincinnati, Ohio. Filed Mar. 17, 1953.

Wendy

For Shampoo.
Claims use since Feb. 10, 1953.

SERVICE MARKS

CLASS 100
MISCELLANEOUS

Ser. No. 632,479. The Institute of Radio Engineers, Inc., New York, N. Y. Filed July 12, 1952. COLLECTIVE MARK.



Applicant claims ownership of Registrations Nos. 309,406, 309,409, and others.
For Establishment and Maintenance of Membership in an International Technical Society Having Scientific, Literary, and Educational Objects, for the Advancement of the Theory and Practice of Radio, Electronics, and Allied Branches of Engineering and of the Related Arts and Sciences, and Their Application to Human Needs.
Claims use since 1912.

CLASS 101
ADVERTISING AND BUSINESS

Ser. No. 636,034. Frederick F. Robinson, Danbury, Conn. Filed Oct. 1, 1952.

TAX-O-MATIC

The word "Tax" is disclaimed apart from the mark as shown on the drawing.
For Accounting and Auditing Services.
Claims use since Aug. 1, 1952.

CLASS 102
INSURANCE AND FINANCIAL

Ser. No. 641,624. The Locaters, Incorporated, Minneapolis, Minn. Filed Feb. 2, 1953. (Sec. 2f.)

The locaters

For Broking of Real Estate and Businesses.
Claims use since 1923.

CLASS 103
CONSTRUCTION AND REPAIR

Ser. No. 603,164. Prestressed Concrete Corporation, Kansas City, Mo. Filed Sept. 5, 1950.

Strescon

For Constructing Prestressed Concrete Structures of All Types.
Claims use since June 17, 1950.

Ser. No. 631,222. Sergey Steuerman, New York, N. Y. Filed June 14, 1952.

VIBROFLOTATION

For Compaction of Soils for Foundation and Construction Purposes.
Claims use since March 1941.

673 O. G.—3

Ser. No. 634,631. Central Television Service Inc., Chicago, Ill. Filed Aug. 29, 1952.

CENTRAL T V SERVICE

The terms "T V Service" are disclaimed apart from the mark as shown in the drawing.
For Television Installation and Repair Services.
Claims use since April 1952.

CLASS 106
MATERIAL TREATMENT

Ser. No. 636,036. Sayles Finishing Plants, Inc., Saylesville, R. I., and New York, N. Y. Filed Oct. 1, 1952.

SAYL-A-GLAZE

No claim is made to the exclusive use of the word "Glaze" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 29,815, 183,685, and others.
For Applying a Glazed Finish Which Endures Through Repeated Laundering to Fabrics Furnished by Others.
Claims use since July 2, 1952.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,791. Combination Bottle Cap and Cup Made of Plastic or Plastic Compositions. Kra-Mag Products, also trading as Drink-O-Tap, Baltimore, Md.
Filed June 4, 1947, Serial No. 523,525. Published July 7, 1953. Class 2.

ACT OF 1946, PRINCIPAL REGISTER

580,648. Sheets, Pillowcases, Crib Covers, Baby Blankets, Tablecloths, and Napkins. Georg Jensen Inc., New York, N. Y.
Original filed, act of 1905, June 21, 1946; amended to application under act of 1946, Principal Register, Dec. 24, 1947, Serial No. 504,366. Published Sept. 14, 1948. Class 42.

580,649. Mixture of Portland Cement and Other Materials Used in Making Construction Blocks, and for Other Purposes — Namely, Insulating Material, as Plaster, as a Mortar, and as a Moisture Repellent. Higgins, Inc., New Orleans, La., assignee of Higgins Industries, Inc.
Original filed, act of 1905, July 1, 1947; amended to application under act of 1946, Principal Register, Apr. 26, 1948, Serial No. 525,319. Published June 16, 1953. Class 12.

580,650. Women's Dresses and Suits. Franklin Dress Co., Inc., Chicago, Ill.
Filed Aug. 1, 1947, Serial No. 530,184. Published June 30, 1953. Class 39.

580,651. Marmalade. James Keiller & Son, Ltd., Inc., Baltimore, Md.
Filed Feb. 17, 1948, Serial No. 549,935. Published June 23, 1953. Class 46.

580,652. Coffee. Weil & Company, Cleveland, Ohio.
Filed Jan. 4, 1949, Serial No. 571,626. Published July 7, 1953. Class 46.

580,653. Superfluous Hair Remover. Jean Jordeau, Inc., South Orange, N. J.
Filed Feb. 19, 1949, Serial No. 574,147. Published May 19, 1953. Class 51.

580,654. Lightweight Concrete Aggregate, Lightweight Structural Concrete Aggregate, Lightweight Aggregate Concrete Building Blocks, Loose Granular Insulation, and Aggregate for Refractory Concrete, Etc. Southern Lightweight Aggregate Corporation, Norfolk, Va.
Filed Mar. 11, 1949, Serial No. 575,306. Published Apr. 17 1951. Class 12.

580,655. Meat and Meat Products—Namely, Raw and Fresh Beef Carcasses and Cuts. Westinghouse Electric Corporation, Pittsburgh, Pa., and Bloomfield, N. J.
Filed Nov. 1, 1949, Serial No. 587,136. Published July 21, 1953. Class 46.

580,656. Seasoning, the Principal Ingredient of Which Is Mono Sodium Glutamate of 99 Per Cent Purity for Food Flavoring Purposes. Attorney General of the United States, Office of Alien Property, Department of Justice, Washington, D. C.
Filed Nov. 8, 1949, Serial No. 587,461. Published July 7, 1953. Class 46.

580,657. Skin Lotion. The Mennen Company, Newark, N. J.
Filed Feb. 11, 1950, Serial No. 592,328. Published June 23, 1953. Class 51.

580,658. Shelled, Plain Almonds. Gerhard W. Stiefvater, doing business as Happy Valley Orchards, Chico, Calif.
Filed Mar. 3, 1950, Serial No. 593,375. Published June 16, 1953. Class 46.

580,659. Ladies' Dresses. Lucky Star Fashions, Inc., New York, N. Y.
Filed May 2, 1950, Serial No. 596,737. Published Nov. 11, 1952. Class 39.

580,660. Food Colors, Gelatine Desserts, Chocolate, Vanilla, Butter Scotch, Etc. David Kleckner & Son, Inc., Ozone Park, N. Y.
Filed May 4, 1950, Serial No. 596,848. Published June 16, 1953. Class 46.

580,661. Lubricating Oil, Lubricating Greases, and Gasoline. Deep Rock Oil Corporation, Tulsa, Okla.
Filed May 8, 1950, Serial No. 597,069. Published June 23, 1953. Class 15.

580,662. Fired on Ceramic Color Glaze, Underglaze, Overglaze, and Luster Coatings. Tru-Fyre Laboratories, Los Angeles, Calif.
Filed June 2, 1950, Serial No. 598,513. Published June 23, 1953. Class 12.

580,663. Dentifrices, Solid and Liquid Brilliantine, Toilet Powders, Lipsticks, Nail Polish, Hair Dyeing Preparations, Hair Lotions, Cold Creams, Bath Salts, Perfumes. Societa in Accomandita Semplice Franco Cella & C., Milan, Italy.
Filed June 21, 1950, Serial No. 599,538. Published June 23, 1953. Class 51.

580,664. Bread, Fresh, Canned, and Frozen Fruits and Vegetables. Milgram Food Stores, Inc., Kansas City, Mo.
Filed July 31, 1950, Serial No. 601,503. Published July 7, 1953. Class 46.

580,665. Plastic Composition Flooring Tile. The Flintkote Company, New York, N. Y.
Filed Sept. 8, 1950, Serial No. 603,291. Published Nov. 6, 1951. Class 12.

580,666. Pansy Seeds. Steele's Pansy Gardens, Portland, Oreg.
Filed Sept. 9, 1950, Serial No. 603,392. Published May 19, 1953. Class 1.

580,667. Combination Package of a Moth Repellent Closet Deodorant With Means for Dispensing the Volatile Ingredients Thereof, Etc. The Diversey Corporation, Chicago, Ill.
Filed Sept. 20, 1950, Serial No. 603,772. Published July 7, 1953. Class 6.

580,668. Window and Shower Curtains, Draperies and Textile Rugs, and Cotton and Rayon Fabrics, Including Curtain and Drapery Materials. Home Specialty Co., Chicago, Ill.
Filed Sept. 21, 1950, Serial No. 603,845. Published June 30, 1953. Class 42.

580,669. Compressed Air Operated Machines—Namely, Reciprocating Conveyor Motors, Etc. Heinrich Flottmann G. m. b. H., Herne, Germany.
Filed Oct. 13, 1950, Serial No. 604,847. Published Apr. 28, 1953. Class 23.

580,670. De-Aeration Apparatus Used in the Paper Industry for the Removal by Vacuum of Air From Paper-Making Constituents. The Rotareaed Corporation, Bronxville, N. Y.
Filed Nov. 15, 1950, Serial No. 606,440. Published Apr. 28, 1953. Class 23.

580,671. Rubber Reinforced Fibers Sold in Sheets and Most Commonly Used for Making Rug Pads. Allen Industries, Incorporated, Detroit, Mich.
Filed Nov. 22, 1950, Serial No. 606,741. Published May 19, 1953. Class 1.

580,672. Fat-Soluble Vitamin Concentrates, Etc. Nopco Chemical Company, Harrison, N. J.
Filed Nov. 22, 1950, Serial No. 606,791. Published June 23, 1953. Class 18.

580,673. Flexible Protective Covering for Pipes, Etc. The Trenton Corporation, Ann Arbor, Mich.
Filed Dec. 28, 1950, Serial No. 608,182. Published June 23, 1953. Class 12.

580,674. Attachments Adapted To Be Mounted Upon the Rear of Grain Combines and Powered Thereby To Disintegrate the Straw Discharged by the Combine Through a Rotary Cutting Action and To Thereafter Spread the Same, and Parts Thereof. American Iron Works, Inc., East Grand Forks, Minn.
Filed Jan. 13, 1951, Serial No. 608,733. Published Feb. 17, 1953. Class 23.

580,675. Watches and Watch Parts. Merit Watch Company, Inc., New York, N. Y.
Filed Feb. 1, 1951, Serial No. 609,491. Published May 19, 1953. Class 27.

580,676. Metallic Structural Elements—Namely, Beams, Etc. Dexion Limited, London, England.
Filed Feb. 16, 1951, Serial No. 610,168. Published June 23, 1953. Class 12.

580,677. Comminuted Scrap Material Made From Cellulosic Sheets, Such as Cellophane and the Like, To Be Used as an Additive Ingredient, Etc. Brooks Paper Company, St. Louis, Mo.
Filed Feb. 26, 1951, Serial No. 610,507. Published June 23, 1953. Class 12.

580,678. Powdered Hand Soap. Lien Chemical Company, Franklin Park, Ill.
Filed Mar. 1, 1951, Serial No. 610,696. Published July 7, 1953. Class 52.

580,679. Self Polishing Floor Wax. Lien Chemical Company, Franklin Park, Ill.
Filed Mar. 1, 1951, Serial No. 610,700. Published July 7, 1953. Class 4.

580,680. Change Speed Gears for Motor Cars. Mario Massarotti, Pavia, Italy.
Filed Apr. 5, 1951, Serial No. 612,266. Published Mar. 10, 1953. Class 23.

580,681. Machines Used To Mix and Apply Cementitious Coatings to the Following: Buildings, Building Blocks and Brick, Pottery, Garden Furniture, and Roof Tile. Colorcrete Industries, Incorporated, Holland, Mich.
Filed Apr. 13, 1951, Serial No. 612,590. Published Apr. 7, 1953. Class 23.

580,682. Cocoa. Bensdorp N. V., Bussum, Netherlands.
Filed Apr. 26, 1951, Serial No. 613,154. Published July 7, 1953. Class 46.

580,683. Gasoline, Kerosene, Lubricating Oils, Soluble Oil, Lubricating Greases, and Quenching Oil. American Oil Company, Baltimore, Md.
Filed May 9, 1951, Serial No. 613,662. Published June 23, 1953. Class 15.

580,684. Metal Cleaning Preparations for Use in the Welding Industry. All-Sil Welding Metals, Inc., New York, N. Y.
Filed June 8, 1951, Serial No. 614,918. Published June 23, 1953. Class 52.

580,685. Lapel Emblems, Belt Buckles, Tie Clasps, Cuff Links, Etc. Veterans of Foreign Wars of the United States, Kansas City, Mo.
Filed July 9, 1951, Serial No. 616,261. Published May 19, 1953. Class 28.

580,686. Ceiling Constructions—Namely, Metallic Suspension Systems for Supporting Acoustical Tile and Insulating Tile and the Like. Cooper C. Drury, Dallas, Tex.
Filed July 25, 1951, Serial No. 616,904. Published May 19, 1953. Class 12.

580,687. Ceiling Constructions—Namely Metallic Suspension Systems for Supporting Acoustical Tile and Insulating Tile and the Like. Cooper C. Drury, Dallas, Tex.
Filed July 25, 1951, Serial No. 616,905. Published May 19, 1953. Class 12.

580,688. Motorcycles. Ateliers de la Motobecane, Pantin (Seine), France.
Priority under Sec. 44(d). French Registration No. 411,963, filed May 2, 1951.
Filed July 28, 1951, Serial No. 617,072. Published July 7, 1953. Class 19.

580,689. Motorcycles. La Motoconfort, Pantin (Seine), France.
Priority under Sec. 44(d). French Registration No. 411,962, filed May 2, 1951.
Filed July 28, 1951, Serial No. 617,086. Published July 7, 1953. Class 19.

580,690. Brassières, Garter Belts, Girdles, and Waist Cinchers. Garden Foundations, Inc., New York, N. Y.
Filed Aug. 1, 1951, Serial No. 617,189. Published June 24, 1952. Class 39.

580,691. Ladies' Hosiery. Mutual Buying Syndicate, Inc., New York, N. Y.
Filed Aug. 3, 1951, Serial No. 617,308. Published June 30, 1953. Class 39.

580,692. China Tableware. Easterling China Company, Chicago, Ill.
Filed Aug. 29, 1951, Serial No. 618,206. Published May 19, 1953. Class 30.

580,693. Synthetic Precious and Semi-Precious Gems. William S. Pardee, doing business as The Pardee Company, Hollywood, Calif.
Filed Sept. 1, 1951, Serial No. 618,325. Published May 19, 1953. Class 28.

580,694. Chemical Compound Applicable to the Foliage of Plants for Improving and Preserving Their Appearance. Fred F. Forrest, trading and doing business as Forrest's Greenhouses, Waxahachie, Tex.
Filed Sept. 4, 1951, Serial No. 618,350. Published July 7, 1953. Class 6.

580,695. Counters and Registers Operated Mechanically, Electrically, Photo-Electrically, or Otherwise, and Parts Thereof, Etc. Veeder-Root Incorporated, Hartford, Conn.
Filed Oct. 10, 1951, Serial No. 619,858. Published May 5, 1953. Class 26.

580,696. Light Controlling Attachments for Eyeglasses in the Form of Lens Shaped Pressure Sensitive (Plastic) Sheet Material. Rand Rubber Company, Inc., Brooklyn, N. Y.
Filed Oct. 12, 1951, Serial No. 619,950. Published July 7, 1953. Class 26.

580,697. Toe Rubbers, Heel Strip Rubbers, and Half Rubbers. Gem Rubber Corporation, New York, N. Y.
Filed Oct. 29, 1951, Serial No. 620,597. Published June 30, 1953. Class 39.

580,698. Men's, Women's, and Children's Knitted Apparel—Namely, Sweaters, Jackets, Stockings, Socks, and Scarves. Forstmann Woolen Company, Passaic, N. J.
Filed Nov. 3, 1951, Serial No. 620,844. Published June 30, 1953. Class 39.

580,699. Lifeboats. Continental Copper & Steel Industries, Inc., New York, N. Y., and Perth Amboy, N. J.
Filed Nov. 5, 1951, Serial No. 620,871. Published July 7, 1953. Class 19.

580,700. Device for Causing an Admixture of Air and Water Vapor To Flow Into the Intake Manifold of an Internal Combustion Engine, so as To Improve Carburation. The Robinson Company, Blair, Nebr.
Filed Nov. 23, 1951, Serial No. 621,578. Published Apr. 14, 1953. Class 23.

580,701. Watches for Wrist and Pocket, Clocks for Table, Clocks and Watches of Any Kind, Including Alarm Clocks. Fratelli Borletti Societá per Azioni, Milan, Italy.
Priority under Sec. 44(d). Italian Registration No. 104,564, filed July 31, 1951.
Filed Nov. 24, 1951, Serial No. 621,624. Published May 19, 1953. Class 27.

580,702. Hair and Scalp Conditioner. Sulfur-8 Chemical Co., Inc., Brooklyn, N. Y.
Filed Nov. 30, 1951, Serial No. 621,917. Published June 16, 1953. Class 51.

580,703. Air Tools—Namely, Angle Attachments, Backfill Tampers, Chipping Hammers, Caiking Hammers, Etc. The Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y.
Filed Oct. 31, 1951, Serial No. 622,056. Published Apr. 21, 1953. Class 23.

580,704. General Fresh Farm Produce—Namely, Irish Potatoes, Sweet Potatoes, Beans, Peppers, Tomatoes, Strawberries, Cabbage, and Cucumbers. H. C. West & Sons, Birdsnest, Va.
Filed Dec. 5, 1951, Serial No. 622,135. Published June 23, 1953. Class 46.

580,705. Sweet-Spread for Bread, Toast, Muffins, Waffles, Pancakes, Ice Cream, and the Like Containing Whole Milk, Non-Fat Milk Solids, Water, Sugar, and Artificial Flavoring. G. B. Products, Inc., Utica, N. Y.
Filed Dec. 8, 1951, Serial No. 622,256. Published July 7, 1953. Class 46.

580,706. Room Deodorant To Disinfect and Perfume the Air. Galree Products Company, Inc., New York, N. Y.
Filed Dec. 18, 1951, Serial No. 622,648. Published July 7, 1953. Class 6.

580,707. Room Deodorant To Disinfect and Perfume the Air. Reefer-Galler, Incorporated, New York, N. Y.
Filed Dec. 18, 1951, Serial No. 622,655. Published July 7, 1953. Class 6.

580,708. Weighing Scales. Stanley M. Lewis, doing business as Conant Bros. Company, Somerville, Mass.
Filed Dec. 19, 1951, Serial No. 622,666. Published July 7, 1953. Class 26.

580,709. Typewriter Covers. Ames Supply Company, Chicago, Ill.
Filed Dec. 27, 1951, Serial No. 622,879. Published Apr. 28, 1953. Class 23.

580,710. Insecticides. Galree Products Company, Inc., New York, N. Y.
Filed Dec. 27, 1951, Serial No. 622,889. Published July 7, 1953. Class 6.

580,711. Barrels, Boxes, Drums, Riddles, and Kegs. The Greif Bros. Cooperage Corporation, Delaware, Ohio.
Filed Jan. 11, 1952, Serial No. 623,461. Published July 7, 1953. Class 2.

580,712. Fuel Oil Additives and Combustion Catalysts of Metallo-Organic Salts, E. G., Catalytic Iron Salts of Organic Acids as, Oleates, Naphthalates, Etc. Alexander Mazurkiewicz, doing business as Petroleum Laboratories, Long Island City, N. Y.
Filed Jan. 18, 1952, Serial No. 623,772. Published June 23, 1953. Class 15.

580,713. Tablets Used To Relieve Drowsiness and Mental Fatigue. Jack Eisenberg, doing business as Florida Utilities, Miami, Fla.
Filed Jan. 24, 1952, Serial No. 624,028. Published June 23, 1953. Class 18.

580,714. Swivels for Overhead Suspension of Punching Bags. Healthways, Los Angeles, Calif.
Filed Feb. 4, 1952, Serial No. 624,487. Published July 7, 1953. Class 22.

580,715. Hand-Operated Compression Sprayers for Insecticides. H. D. Hudson Manufacturing Company, Chicago, Ill.
Filed Feb. 9, 1952, Serial No. 624,745. Published Feb. 3, 1953. Class 23.

580,716. Material for Use in Locating Cracks and Defects in Porous Bodies, Consisting of Concentrates, Finely Divided Suspensions, Pigments and Powders, and Liquids for Preparing the Suspensions. Magnaflux Corporation, Chicago, Ill.
Filed Feb. 14, 1952, Serial No. 624,959. Published July 7, 1953. Class 6.

580,717. Waterproofing and Insulating Bituminous Composition for Application to Houses and Other Building Structures. Spring Packing Corporation, Chicago, Ill.
Filed Feb. 25, 1952, Serial No. 625,494. Published June 23, 1953. Class 12.

580,718. Vitaminized Iron Tonic. Benevim Corporation, New York, N. Y.
Filed Feb. 28, 1952, Serial No. 625,654. Published June 23, 1953. Class 18.

580,719. Bird Feeds. Hartz Mountain Products, New York, N. Y.
Filed Mar. 1, 1952, Serial No. 625,798. Published July 7, 1953. Class 46.

580,720. Sanitary Napkin Belts. Personal Products Corporation, North Brunswick Township, N. J.
Filed Mar. 1, 1952, Serial No. 625,816. Published July 7, 1953. Class 44.

580,721. Friable Glass-Like Substances in Finely Divided Form Containing Essential Plant Foods for Use as a Fertilizer. Ferro Corporation, Cleveland, Ohio.
Filed Mar. 6, 1952, Serial No. 626,027. Published July 7, 1953. Class 10.

580,722. Cheesecloth. Sage Laboratories, Inc., New York, N. Y.
Filed Mar. 6, 1952, Serial No. 626,049. Published July 7, 1953. Class 42.

580,723. Costume Jewelry and Ornaments for Personal Wear—Namely, Brooches, Pins, Clips, Earrings, Finger Rings, Anklets, Bracelets, and Charms. Carol Antell, Inc., New York, N. Y.
Filed Mar. 26, 1952, Serial No. 627,032. Published May 19, 1953. Class 28.

580,724. Power Operated, Pneumatic Spraying Apparatus for Trees, Plants, and Bushes. Elgin Sweeper Company, Elgin, Ill.
Filed Mar. 26, 1952, Serial No. 627,052. Published Mar. 3, 1953. Class 23.

580,725. Flower Bulbs. H. Homan & Co. N. V., Oegstgeest, Netherlands.
Filed Mar. 28, 1952, Serial No. 627,189. Published June 23, 1953. Class 1.

580,726. Shortening Made From Hydrogenated Meat Fats and Vegetable Fats. Lookout Oil and Refining Company, Chattanooga, Tenn., assignor to Armour and Company, a corporation of Illinois.
Filed Mar. 28, 1952, Serial No. 627,199. Published June 16, 1953. Class 46.

580,727. Shortening Made From Hydrogenated Meat Fats and Vegetable Fats. Lookout Oil and Refining Company, Chattanooga, Tenn., assignor to Armour and Company, a corporation of Illinois.
Filed Mar. 28, 1952, Serial No. 627,200. Published June 16, 1953. Class 46.

580,728. Ladies' Costume Jewelry—Namely, Brooches, Pins, Necklaces, Earrings, Bracelets, and Scatter Pins. Robert Allen Company, Minneapolis, Minn.
Filed Mar. 29, 1952, Serial No. 627,239. Published May 19, 1953. Class 28.

580,729. Bowls, Lazy Susans, Trays, Dishes, All Made of Wood. Munising Wood Products Company, Inc., Chicago, Ill.
Filed Feb. 25, 1952, Serial No. 627,302. Published July 7, 1953. Class 2.

580,730. Additive for Heating Oils and Fuel Oils. Richfield Oil Corporation, Los Angeles, Calif.
Filed Mar. 31, 1952, Serial No. 627,358. Published June 23, 1953. Class 15.

580,731. Synthetic Resins and Synthetic Resinous Compositions Whether in the Form of Powders, Granules, Emulsions, Dispersions, or Solutions. Monsanto Chemical Company, St. Louis, Mo.
Filed Apr. 14, 1952, Serial No. 627,369. Published July 7, 1953. Class 6.

580,732. Face Powder, Perfumes, Lipsticks, Hand Lotion. Dorothea A. Davis, Wilmette, Ill.
Filed Apr. 10, 1952, Serial No. 627,867. Published July 7, 1953. Class 51.

580,733. Hand-Operated Food Mixers, Beaters, and Whippers. Rival Manufacturing Company, Kansas City, Mo.
Filed Apr. 10, 1952, Serial No. 627,901. Published Feb. 24, 1953. Class 23.

580,734. Men's and Boys' Suits, Sportcoats, Slacks, Topcoats, Vests, and Overcoats. Pincus Bros. Incorporated, Philadelphia, Pa.
Filed Apr. 16, 1952, Serial No. 628,167. Published June 30, 1953. Class 39.

580,735. Hand Sewing Needles, Pins, Snap Fasteners, Buttons, Buckles, Etc. Federated Department Stores, Inc., Cincinnati, Ohio.
Filed Apr. 26, 1952, Serial No. 628,754. Published June 16, 1953. Class 40.

580,736. Outer Shirts Intended for Use of Men, Women, Boys, and Girls. Paj Manufacturing Co., Los Angeles, Calif.
Filed May 2, 1952, Serial No. 629,117. Published June 30, 1953. Class 39.

580,737. Raw Unpopped Pop Corn. Confections, Incorporated, Chicago, Ill.
Filed May 15, 1952, Serial No. 629,719. Published June 23, 1953. Class 46.

580,738. Dairy Equipment—Namely, Tanks for Storing and Shipping Milk in Bulk. Valco Manufacturing Company, Huntington Park, Calif.
Filed May 16, 1952, Serial No. 629,828. Published July 7, 1953. Class 2.

580,739. Sanitary Belts. Will Ross, Inc., Milwaukee, Wis.
Filed May 28, 1952, Serial No. 630,445. Published July 7, 1953. Class 44.

580,740. Resinous Composition Used To Form Molds for Casting Purposes. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y.
Filed May 29, 1952, Serial No. 630,484. Published July 7, 1953. Class 6.

580,741. Pest Control Pads—Namely, Chemically Treated Pads for Killing Insects. V. S. Babcock, doing business as V. S. Babcock Sales Co., San Francisco, Calif.
Filed June 2, 1952, Serial No. 630,570. Published July 7, 1953. Class 6.

580,742. Milling Machine Accessories—Namely, Milling Machine Cutters. Howell E. Begle, doing business under the name and style of Detroit Milling Cutter Company, Farmington, Mich.
Filed June 2, 1952, Serial No. 630,572. Published Apr. 28, 1953. Class 23.

580,743. Packaged, Unpopped Popcorn. The Ellis Popcorn Company, Murray, Ky.
Filed May 20, 1952, Serial No. 630,652. Published July 7, 1953. Class 46.

580,744. Mixture of Detergents in White Granular Form Adapted for Use in Hot, Cold, Hard, or Soft Water and Particularly Adapted for Use in Commercial and Institutional Laundries. E. F. Drew & Co., Inc., New York, N. Y.
Filed June 6, 1952, Serial No. 630,834. Published July 7, 1953. Class 52.

580,745. Fraternity Pins, Badges, Buttons, and Keys Made of Precious Metal. Sigma Phi Delta Fraternity, Urbana, Ill.
Filed June 6, 1952, Serial No. 630,856. Published May 19, 1953. Class 28.

580,746. Pneumatic, Automatic Controllers for Controlling Temperature, Pressure, Liquid Level, Rate of Flow, and Like Variables. Taylor Instrument Companies, Rochester, N. Y.
Filed June 11, 1952, Serial No. 631,073. Published July 7, 1953. Class 26.

580,747. Fatty Alcohols for Further Use in Manufacture as De-Foaming Agents, Emulsifiers, Intermediates, Penetrants, Plasticizers, and Stabilizers. Archer-Daniels-Midland Company, Minneapolis, Minn., and Cleveland, Ohio.
Filed June 13, 1952, Serial No. 631,139. Published July 7, 1953. Class 6.

580,748. Cigarette Package Dispensers Comprising a Plastic Oblong Wall Box, With a Chute. Northwest Plastics, Inc., St. Paul, Minn.
Filed June 14, 1952, Serial No. 631,218. Published July 7, 1953. Class 2.

580,749. Leather Belt Dressing and Conditioner. Graton & Knight Company, Worcester, Mass.
Filed June 17, 1952, Serial No. 631,286. Published July 7, 1953. Class 6.

580,750. Thin, Transparent Sheeting of Cellulosic Composition and Thin, Translucent Sheeting of Cellulosic Composition. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed June 20, 1952, Serial No. 631,476. Published July 7, 1953. Class 1.

580,751. Canned Tuna Fish, Sardines, and Kippered Herrings. Biddle Purchasing Company, trading as Meridian Distributors, New York, N. Y.
Filed June 26, 1952, Serial No. 631,785. Published May 26, 1953. Class 46.

580,752. Well Logging Apparatus for Indicating and Recording the Earth Formation Penetrated in the Course of the Drilling for Oil and Gas Wells and the Like. Well Instrument Developing Co., Houston, Tex.
Filed June 26, 1952, Serial No. 631,832. Published July 7, 1953. Class 26.

580,753. Butter. Litchfield Creamery Co., Litchfield, Ill.
Filed June 28, 1952, Serial No. 631,936. Published July 7, 1953. Class 46.

580,754. Preparations for Repairing, Preserving, and Beautifying Finger Nails and Toe Nails, Etc. Juliette Marglen, Inc., Los Angeles and Hollywood, Calif.
Filed July 5, 1952, Serial No. 632,165. Published June 23, 1953. Class 51.

580,755. Preparations for Repairing, Preserving, and Beautifying Finger Nails and Toe Nails, Etc. Juliette Marglen, Inc., Los Angeles and Hollywood, Calif.
Filed July 5, 1952, Serial No. 632,166. Published June 23, 1953. Class 51.

580,756. Artificial Teeth. H. D. Justi & Son, Inc., Philadelphia, Pa.
Filed July 8, 1952, Serial No. 632,251. Published July 7, 1953. Class 44.

580,757 Plastic Wall Tile. American Radiator & Standard Sanitary Corporation, New York, N. Y.
Filed July 10, 1952, Serial No. 632,348. Published June 16, 1953. Class 12.

580,758. Scalp Stimulant and Hair Dressing. Joseph De Carlo, doing business under the name and style of Northway Pharmacal Company, Rochester, N. Y.
Filed July 12, 1952, Serial No. 632,467. Published June 23, 1953. Class 51.

580,759. Patterned Architectural Glass. Binswanger & Co., Incorporated, Richmond, Va.
Filed July 16, 1952, Serial No. 632,592. Published May 26, 1953. Class 33.

580,760. Prophylactic Rubber Articles for the Prevention of Contagious Disease. Julius Schmid, Inc., New York, N. Y.
Filed July 26, 1952, Serial No. 633,124. Published July 7, 1953. Class 44.

580,761. Medical Preparation in Cream or Salve Form, Etc. Drug Specialties, Inc., Winston-Salem, N. C.
Filed July 28, 1952, Serial No. 633,148. Published June 23, 1953. Class 18.

580,762. Plywood. Multnomah Plywood Corporation, Portland, Oreg.
Filed July 31, 1952, Serial No. 633,315. Published July 7, 1953. Class 12.

580,763. Scotch Whisky. R. H. Thomson & Co. (Distillers) Limited, Leith, Edinburgh, Scotland.
Filed July 31, 1952, Serial No. 633,339. Published July 7, 1953. Class 49.

580,764. Shims. Laminated Shim Company, Incorporated, Glenbrook, Conn.
Filed Aug. 6, 1952, Serial No. 633,545. Published July 7, 1953. Class 35.

580,765. Preparation for Setting the Hair, Conditioning the Scalp, and Treatment of Dandruff. Joe W. Bailey, doing business under the name of Lamb's Lan-O-Lin Laboratory, Buffalo, N. Y.
Filed Aug. 12, 1952, Serial No. 633,750. Published June 30, 1953. Class 51.

580,766. Vanity Cases, Compacts, and Lipstick Holders Made of Base Metal and Plastic and Sold in Trade Empty. Les Parfums de Dana, Inc., New York, N. Y.
Filed Aug. 21, 1952, Serial No. 634,258. Published July 7, 1953. Class 2.

580,767. Toilet Soaps. Les Parfums de Dana, Inc., New York, N. Y.
Filed Aug. 21, 1952, Serial No. 634,259. Published July 7, 1953. Class 52.

580,768. Massage Cream for the Skin, Peach Bloom Facial Tint, Cuticle Cream, Tar Salve Dandruff Remover, and Dandruff Cream. Honoria Dunn Roche, doing business as The Du Four Co., Washington, D. c.
Filed Aug. 22, 1952, Serial No. 634,345. Published June 23, 1953. Class 51.

580,769. Massage Cream for the Skin, Peach Bloom Facial Tint, Cuticle Cream, Tar Salve Dandruff Remover, and Dandruff Cream. Honoria Dunn Roche, doing business as The Du Four Co., Washington, D. C.
Filed Aug. 22, 1952, Serial No. 634,346. Published June 23, 1953. Class 51.

580,770. Vitamin Preparation Incorporating a Sedative. James H. Austin, doing business as J. H. Austin Company, Charlotte, N. C.
Filed Aug. 23, 1952, Serial No. 634,362. Published June 23, 1953. Class 18.

580,771. Lipstick, Nail Enamel, Face Powder, Cheek Stick, and Cake Rouge. Revlon Products Corporation, New York, N. Y.
Filed Aug. 28, 1952, Serial No. 634,605. Published June 23, 1953. Class 51.

580,772. Cements—Namely, Portland Cement, Oil-Well Cement, Quick-Setting Cement, Etc. Southwestern Portland Cement Company, Los Angeles, Calif.
Filed Aug. 28, 1952, Serial No. 634,611. Published June 23, 1953. Class 12.

580,773. Cologne, After-Shaving Lotion, Hair Lotion, Talcum Powder, Bay Rum, Personal Use Deodorant, Foot Powder, Shaving Soap, and Sun-Screen Lotion. The Lambert Company, doing business as John Hudson Moore Co., Division of The Lambert Company, Jersey City, N. J., and New York, N. Y.
Filed Sept. 3, 1952, Serial No. 634,790. Published June 23, 1953. Class 51.

580,774. Hair Driers, Electric Heating Pads for Therapeutic Use, Manicure Scissors, and Syringes. Federated Department Stores, Inc., Cincinnati, Ohio.
Filed Sept. 6, 1952, Serial No. 634,936. Published July 7, 1953. Class 44.

580,775. Perfumes, Bay Rum, Hair Dressings, Face Lotions, Cold Creams, Vanishing Creams, Pomades, Talcum Powders, and Face Powders. Cheatham Chemical Company, Atlanta, Ga.
Filed Sept. 17, 1952, Serial No. 635,348. Published July 7, 1953. Class 51.

580,776. Perfumes, Hair Tonic, Face Lotion, Mouth Wash, Nail Lacquer, and Nail Lacquer Remover. Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany, now by change of name Wacker-Chemie G. m. b. H.
Filed June 13, 1952, Serial No. 635,569. Published June 30, 1953. Class 51.

580,777. Liquid Soap. Manufacturing Laboratories, Inc., Boston, Mass.
Filed Sept. 22, 1952, Serial No. 635,603. Published July 7, 1953. Class 52.

580,778. Fabricated Wall and Ceiling Panels. Marsh Wall Products, Inc., Dover, Ohio.
Filed Sept. 22, 1952, Serial No. 635,605. Published June 23, 1953. Class 12.

580,779. Motion Picture Cameras, Motion Picture Film Processors for Developing, Fixing, Washing, and Drying Motion Picture Film, Motion Picture Projectors, and Parts Thereof. General Precision Laboratory Incorporated, Pleasantville, N. Y.
Filed Sept. 25, 1952, Serial No. 635,762. Published July 7, 1953. Class 26.

580,780. Preparation for Bathing and Massaging the Skin To Aid in Preventing Bed Sores and Before Heat Treatment or Electrotherapy. Abbott Laboratories, North Chicago, Ill.
Filed Sept. 27, 1952, Serial No. 635,867. Published June 23, 1953. Class 18.

580,781. Motion Picture Cameras, Motion Picture Film Processors for Developing, Fixing, Washing, and Drying Motion Picture Film, Motion Picture Projectors, and Parts Thereof. General Precision Laboratory Incorporated, Pleasantville, N. Y.
Filed Sept. 30, 1952, Serial No. 635,961. Published July 7, 1953. Class 26.

580,782. Gasoline Additive To Remove Carbon and Rust From Gasoline Motors. Hastogo Laboratories, Inc., Alexandria, La.
Filed Oct. 3, 1952, Serial No. 636,127. Published June 23, 1953. Class 15.

580,783. Dial Gages Equipped With Electrical Contacts for Initiating Electrical Action at High and Low Limits. Federal Products Corporation, Providence, R. I.
Filed Oct. 4, 1952, Serial No. 636,169. Published July 7, 1953. Class 26.

580,784. Laminated Cardboard Trays for Meats. Marathon Corporation, Menasha, Wis.
Original filed, act of 1946, Supplemental Register, Oct. 6, 1952; amended to application, Principal Register, Apr. 3, 1953, Serial No. 636,241. Published July 7, 1953. Class 2.

580,785. Combination Hand Tool Usable as a Can Opener, Bottle Opener, Screwdriver, Hammer, Pliers, and for Other Purposes. Joseph N. Amigone, doing business under the name Ami Company, Buffalo, N. Y.
Filed Oct. 7, 1952, Serial No. 636,266. Published Apr. 14, 1953. Class 23.

580,786. Prepared Liquid Wax and Water Emulsion Wax for Use on Floors and Other Surfaces. The Davies-Young Soap Company, Dayton, Ohio.
Filed Sept. 3, 1952, Serial No. 636,323. Published June 23, 1953. Class 4.

580,787. Men's Suits, Coats, Slacks, Trousers, Topcoats, Sport Coats, Neckties; Sport, Dress, and Work Shirts; Women's Suits, Coats, Slacks, Jackets, and Skirts. A. Sagner's Son, Baltimore, Md.
Filed Oct. 11, 1952, Serial No. 636,540. Published June 30, 1953. Class 39.

580,788. Children's Knitwear—Namely, Polo Shirts, Creepers, Coats, Sweaters, and Bootie Sets. Southern Knitwear Mills, Inc., Charlotte, N. C.
Filed Oct. 16, 1952, Serial No. 636,747. Published June 30, 1953. Class 39.

580,789. Shampoo. Charles Antell, Inc., Baltimore, Md.
Filed Oct. 17, 1952, Serial No. 636,760. Published July 7, 1953. Class 52.

580,790. Liquid Enema Solution. Clyserol Laboratories, Inc., Oklahoma City, Okla.
Filed Oct. 18, 1952, Serial No. 636,839. Published June 23, 1953. Class 18.

580,791. Wool Oil Used in Textile Operations. Swift & Company, Chicago, Ill.
Filed Oct. 18, 1952, Serial No. 636,865. Published June 23, 1953. Class 6.

580,792. Chinaware and Porcelain Items—Namely, Plates, Platters, Etc. The Rosenthal-Block China Corporation, New York, N. Y.
Filed Oct. 21, 1952, Serial No. 636,944. Published Apr. 14, 1953. Class 30.

580,793. Compost Activators and Accelerating Materials and Fertilising Materials. Adco Limited, London and Harpenden, England.
Filed Oct. 24, 1952, Serial No. 637,102. Published July 7, 1953. Class 10.

580,794. Lipstick and Nail Enamel. Revlon Products Corporation, New York, N. Y.
Filed Oct. 30, 1952, Serial No. 637,401. Published July 7, 1953. Class 51.

580,795. Instruments and Apparatus for Detection, Indication or Measurement of Nuclear or Other Radiation—Namely, Scintillation Counters, Etc. Irving W. Ruderman, doing business as Larco Nuclear Instrument Company, Palisades Park, N. J.
Filed Nov. 6, 1952, Serial No. 637,724. Published July 7, 1953. Class 26.

580,796. Chemical Composition for Use as a Lubricating, Rewetting, and Softening Agent in the Treatment and Finishing of Textiles. Sun Chemical Corporation, Long Island City, N. Y.
Filed Nov. 6, 1952, Serial No. 637,731. Published July 7, 1953. Class 6.

580,797. Vacuum Bottles. Biddle Purchasing Company, trading as Meridian Distributors, New York, N. Y.
Filed Nov. 8, 1952, Serial No. 637,814. Published July 7, 1953. Class 2.

580,798. Paper Cartons for Dairy Products. Dairypak, Incorporated, Cleveland, Ohio.
Filed Nov. 10, 1952, Serial No. 637,866. Published July 7, 1953. Class 2.

580,799. Bathing Caps, Bathing Suits, and Bathing Slippers for Men, Women, Boys, and Girls Made of Rubber and of Waterproofed Textiles. George Adams, New York, N. Y.
Filed Nov. 13, 1952, Serial No. 637,978. Published June 30, 1953. Class 39.

580,800. Pens and Corrals and Gates Therefor, Stalls and Partitions Therefor, Windows and Steel Columns. Starline Inc., Harvard, Ill.
Filed Nov. 7, 1952, Serial No. 638,036. Published July 7, 1953. Class 12.

580,801. Baby Strollers, Baby Carriages, Baby Coaches, and Children's Combination Walker-Strollers. Storkline Furniture Corporation, Chicago, Ill.
Filed Nov. 15, 1952, Serial No. 638,169. Published July 7, 1953. Class 19.

580,802. Paper Bags. Wolf Brothers, Inc., Philadelphia, Pa.
Filed Nov. 15, 1952, Serial No. 638,178. Published July 7, 1953. Class 2.

580,803. Paper Bags. Wolf Brothers, Inc., Philadelphia, Pa.
Filed Nov. 15, 1952, Serial No. 638,179. Published July 7, 1953. Class 2.

580,804. Calibrated Rule for Locating Passages on Mechanically Grooved Phonograph Records. Broadcast Music, Inc., New York, N. Y.
Filed Nov. 22, 1952, Serial No. 638,469. Published June 30, 1953. Class 26.

580,805. Preparation for Treatment of Gallstones. Francis G. Nightingale, Waco, Tex.
Filed Nov. 24, 1952, Serial No. 638,546. Published June 23, 1953. Class 18.

580,806. Interior Decorative Wall Tile. Peerless Plastics, Culver City, Calif., assignor to Peerless Plastics, Inc., Culver City, Calif., a corporation of California.
Filed Nov. 24, 1952, Serial No. 638,551. Published July 7, 1953. Class 12.

580,807. Dungarees. New England Overall Co. Inc., Boston, Mass.
Filed Nov. 25, 1952, Serial No. 638,598. Published July 7, 1953. Class 39.

580,808. Women's and Girls' Dungarees. New England Overall Co. Inc., Boston, Mass.
Filed Nov. 25, 1952, Serial No. 638,599. Published July 7, 1953. Class 39.

580,809. Floor Plates and Angle Plates. Acme Steel Company, Chicago, Ill.
Filed Dec. 2, 1952, Serial No. 638,824. Published June 23, 1953. Class 12.

580,810. Low Grade Limestone for Use in Fertilizers and in Poultry Feeds, and as a Filler in Asphalt Base Compositions, Etc. C. K. Williams & Co., Easton, Pa.
Filed Dec. 5, 1952, Serial No. 639,092. Published July 7, 1953. Class 1.

580,811. Double Distilled Animal Fatty Acids, Double Distilled Corn Oil Fatty Acids, Etc. W. C. Hardesty Co., Inc., New York, N. Y.
Filed Dec. 6, 1952, Serial No. 639,114. Published July 7, 1953. Class 6.

580,812. Vaginal Jelly Applicators. Julius Schmid, Inc., New York, N. Y.
Filed Dec. 8, 1952, Serial No. 639,193. Published July 7, 1953. Class 44.

580,813. Canned Mandarin Oranges. Minoru Kimura, doing business as Great Empire Trading Co., Seattle, Wash.
Filed Dec. 13, 1952, Serial No. 639,430. Published July 7, 1953. Class 46.

580,814. Fresh Citrus Fruit. Larry Lightner, Inc., Brownsville, Tex.
Filed Dec. 15, 1952, Serial No. 639,478. Published July 7, 1953. Class 46.

580,815. Berets. Kangol Wear Limited, Cumberland, England.
Filed Dec. 19, 1952, Serial No. 639,757. Published June 30, 1953. Class 39.

580,816. Men's and Women's Sweaters. The Bernhard Altmann Texas Corporation, San Antonio, Tex.
Filed Dec. 22, 1952, Serial No. 639,867. Published June 30, 1953. Class 39.

580,817. Salted Nuts. E. F. Kemp Corp., Somerville and Winter Hill, Somerville, Mass.
Filed Dec. 23, 1952, Serial No. 639,939. Published July 7, 1953. Class 46.

580,818. Children's Toys—Namely, Music-Maker Books, Hurdy-Gurdies, and Jack-in-the-Boxes. Mattel, Incorporated, Los Angeles, Calif.
Filed Dec. 27, 1952, Serial No. 640,073. Published June 16, 1953. Class 22.

580,819. Soap. Fabergé, Inc., New York, N. Y.
Filed Dec. 30, 1952, Serial No. 640,152. Published July 7, 1953. Class 52.

580,820. Water Repellent Baby Pants. Rand Rubber Company, Inc., Brooklyn, N. Y.
Filed Dec. 30, 1952, Serial No. 640,169. Published June 30, 1953. Class 39.

580,821. Ladies' Sweaters, Skirts, Jackets, Blouses, Dresses, Hose Anklets, Scarves, Hats, and Gloves of Leather or Fabric or a Combination Thereof. Empire Imports, Inc., New York, N. Y.
Filed Dec. 31, 1952, Serial No. 640,198. Published June 30, 1953. Class 39.

580,822. Detergent. Paul M. Gottfried, doing business under the name Paulen Chemical Company, Berwyn, Md.
Filed Jan. 5, 1953, Serial No. 640,337. Published July 7, 1953. Class 52.

580,823. Metal Sheets Protected on One or Both Sides by a Layer of Asbestos Treated so as To Be Oil, Gas, and Water Resistant, and Intended for Making Gaskets for Internal Combustion Engines and Associated Parts Thereof. Detroit Gasket & Manufacturing Company, Detroit, Mich.
Filed Jan. 8, 1953, Serial No. 640,502. Published July 7, 1953. Class 35.

580,824. Pancake Flour, Bran Muffin Mix, Biscuit Mix, Gingerbread Cake Mix, Etc. Hilker & Bletsch Company, Chicago, Ill., and Cincinnati, Ohio.
Filed Jan. 12, 1953, Serial No. 640,631. Published July 7, 1953. Class 46.

580,825. Watch Bands. Jacques Kreisler Manufacturing Corporation, North Bergen, N. J.
Filed Jan. 12, 1953, Serial No. 640,638. Published May 19, 1953. Class 28.

580,826. Industrial Fluoroscopic and Radiographic Apparatus, and Parts Thereof. X-Ray Products Corporation, North Hollywood, Calif.
Filed Jan. 13, 1953, Serial No. 640,705. Published July 7, 1953. Class 26.

580,827. Anticholinergic Compound. American Cyanamid Company, New York, N. Y.
Filed Jan. 15, 1953, Serial No. 640,770. Published June 23, 1953. Class 18.

580,828. Sensitized Photographic Film, Sensitized Photographic Paper, Sensitized Photographic Plates, and Sensitized Photographic Cloth. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed Jan. 19, 1953, Serial No. 640,922. Published July 7, 1953. Class 26.

580,829. Sensitised Photographic Film, Sensitized Motion-Picture Film, and Sensitized Photographic Paper. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed Jan. 19, 1953, Serial No. 640,923. Published July 7, 1953. Class 26.

580,830. Polyvinyl Alcohol. Chemische Forschungsgesellschaft m. b. H., Munich, Bavaria, Germany.
Filed July 12, 1952, Serial No. 641,247. Published July 7, 1953. Class 6.

580,831. Fresh Citrus Fruits. Deerfield Groves Company, Wabasso, Fla.
Filed Jan. 27, 1953, Serial No. 641,370. Published July 7, 1953. Class 46.

580,832. Insulated Heat-Retaining Baby-Bottle Zipper Bags in the Shape of a Doll. Barbara Diane, New York, N. Y.
Filed Jan. 30, 1953, Serial No. 641,540. Published July 7, 1953. Class 2.

580,833. Combination Plant Food and Soil Conditioner. Oswego Soy Products Corporation, Oswego, N. Y.
Filed Feb. 2, 1953, Serial No. 641,635. Published July 7, 1953. Class 10.

580,834. Epoxide Resin for Glues. The Borden Company, New York, N. Y.
Filed Feb. 17, 1953, Serial No. 642,342. Published July 7, 1953. Class 5.

580,835. Waxed Paper Bags. Crown Zellerbach Corporation, San Francisco, Calif.
Filed Feb. 18, 1953, Serial No. 642,390. Published July 7, 1953. Class 2.

580,836. Shampoo. Consolidated Cosmetics, Chicago, Ill., assignor, by mesne assignments, to Saint Cornelius The Centurion Chapel of Valley Forge Military Academy, Wayne, Pa., a church corporation of Pennsylvania.
Filed Feb. 20, 1953, Serial No. 642,526. Published July 7, 1953. Class 52.

580,837. Toilet Soap. Swiss Pine Importing Co., Inc., New York, N. Y.
Filed Feb. 20, 1953, Serial No. 642,579. Published July 7, 1953. Class 52.

580,838. Sacroiliac Supports. Piper Brace Co., Kansas City, Mo.
Filed Feb. 24, 1953, Serial No. 642,688. Published July 7, 1953. Class 44.

580,839. Composition of Solvents and Detergents for Use in Spot-Washing of Textiles. General Dyestuff Corporation, New York, N. Y.
Filed Feb. 26, 1953, Serial No. 642,812. Published July 7, 1953. Class 52.

580,840. Laundry Washing Machines and Laundry Dryers. Marshall-Wells Company, Duluth, Minn.
Filed Feb. 26, 1953, Serial No. 642,827. Published June 23, 1953. Class 24.

580,841. Exothermic Compound. Exomet, Incorporated. Conneaut, Ohio.
Filed Mar. 3, 1953, Serial No. 643,034. Published July 7, 1953. Class 6.

580,842. Shampoo. The Odell Company, Inc., Newark, N. J.
Filed Mar. 3, 1953, Serial No. 643,045. Published July 7, 1953. Class 52.

580,843. Enzyme Preparation for Use in the Oxidation of Glucose to Gluconic Acid. Takamine Laboratory, Inc., Clifton, N. J.
Filed Mar. 3, 1953, Serial No. 643,051. Published July 7, 1953. Class 6.

580,844. Enzyme Preparation for Use in the Oxidation of Glucose to Gluconic Acid. Takamine Laboratory, Inc., Clifton, N. J.
Filed Mar. 3, 1953, Serial No. 643,052. Published July 7, 1953. Class 6.

580,845. Device Consisting of a Combination of Rollers for Massaging Tired Feet. William C. Hunneman, Jr., Philadelphia, Pa.
Filed Mar. 5, 1953, Serial No. 643,162. Published July 7, 1953. Class 44.

580,846. Tires Made of Rubber or a Combination of Rubber and Fabric or Other Material. Tide Water Associated Oil Company, New York, N. Y.
Filed Mar. 5, 1953, Serial No. 643,197. Published July 7, 1953. Class 35.

580,847. Bandages. Johnson & Johnson, New Brunswick, N. J.
Filed Mar. 20, 1953, Serial No. 643,963. Published July 7, 1953. Class 44.

580,848. Pickles, Jams, Jellies, Mincemeat, Fruit Cake, Plum Pudding, and Canned Fruits and Vegetables. Famous Virginia Foods, Inc., Lynchburg, Va.
Filed Mar. 26, 1953, Serial No. 644,227. Published June 30, 1953. Class 46.

580,849. Model or Miniature Railway Cars and Equipment for Use as Toys. Mantua Metal Products Co., Inc., Woodbury Heights, N. J.
Filed Apr. 10, 1953, Serial No. 645,048. Published June 23, 1953. Class 22.

580,850. Fresh Deciduous Fruits and Fresh Vegetables. Jackson & Walton, Modesto, Calif.
Filed Apr. 17, 1953, Serial No. 645,486. Published July 7, 1953. Class 46.

580,851. Fishing Lines. B. F. Gladding & Company, Inc., South Otselic, N. Y.
Filed Apr. 27, 1953, Serial No. 645,980. Published July 7, 1953. Class 22.

580,852. Fishing Lines. B. F. Gladding & Company, Inc., South Otselic, N. Y.
Filed Apr. 27, 1953, Serial No. 645,981. Published July 7, 1953. Class 22.

Service Marks

580,853. Leasing of Electrical Equipment—Namely, X-Ray Apparatus. General Electric X-Ray Corporation, Milwaukee, Wis., now by merger General Electric Company, a corporation of New York.
Filed Dec. 14, 1949, Serial No. 589,309. Published July 7, 1953. Class 100.

580,854. Radio Program Broadcasting. Booth Radio & Television Stations, Inc., Detroit, Mich.
Filed Apr. 9, 1952, Serial No. 627,800. Published July 7, 1953. Class 104.

580,855. Spraying Liquid Plastic on Wood, Plaster, Stucco, Brick, Cinder Block, Concrete, and Metal for Waterproofing, Vapor and Dust-Proofing, Brine, Acid, Corrosion, Fungi, and Stain-Resistant Proofing. Progressive Industries, Inc., Long Island City, N. Y.
Filed Oct. 8, 1952, Serial No. 636,381. Published July 7, 1953. Class 103.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

580,856. (Class 46. Foods and Ingredients of Foods.) Pillsbury Mills, Inc., Minneapolis, Minn. Original filed, act of 1946, Principal Register, Sept. 22, 1949; amended to application, Supplemental Register, Jan. 15, 1953, Serial No. 585,187.

Lite-O

For Raised Doughnut Mix.
Claims use since Dec. 8, 1948.

580,857. (Class 36. Musical Instruments and Supplies.) Edward R. French, doing business as The Top Tunes Company, Ocean City, N. J. Original filed, act of 1946, Principal Register, July 6, 1950; amended to application, Supplemental Register, Mar. 23, 1953, Serial No. 600,262.

Top Tune Time

For Grooved Phonograph Records.
Claims use since Aug. 27, 1949.

580,858. (Class 51. Cosmetics and Toilet Preparations.) Sales Affiliates, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 3, 1951; amended to application, Supplemental Register, Nov. 29, 1952, Serial No. 609,606.

'PRO'-WAVE

For Permanent Wave Lotion and Neutraliser.
Claims use since Dec. 27, 1950.

580,859. (Class 14. Metals and Metal Castings and Forgings.) Eureka Iron & Metal Company, doing business under the fictitious name and style of Eureka Metals Supply Company, Los Angeles, Calif. Original filed, act of 1946, Principal Register, May 26, 1951; amended to application, Supplemental Register, July 3, 1953, Serial No. 614,404.

AL-THIN

For Sheet Aluminum.
Claims use since May 7, 1951.

580,860. (Class 39. Clothing.) Walter W. Moyer Company, Ephrata, Pa. Original filed, act of 1946, Principal Register, July 13, 1951; amended to application, Supplemental Register, Dec. 12, 1952, Serial No. 616,438.

Sleep Set

For Underwear and Sleeping Garments, the Latter Consisting of Shirt and Pants, for Men, Women, Boys, and Girls.
Claims use since June 27, 1951.

580,861. (Class 46. Foods and Ingredients of Foods.) Schulze and Burch Biscuit Co., Chicago, Ill. Original filed, act of 1946, Principal Register, Oct. 10, 1951; amended to application, Supplemental Register, Sept. 16, 1952, Serial No. 619,854.

Pineapple Crush

For Cookies.
Claims use since Sept. 13, 1951.

580,862. (Class 11. Inks and Inking Materials.) Kohl & Madden Printing Ink Co. Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Oct. 13, 1951; amended to application, Supplemental Register, Aug. 6, 1952, Serial No. 619,974.

Prompt Set

For Printing Inks.
Claims use since Apr. 1, 1951.

580,863. (Class 11. Inks and Inking Materials.) A. B. Dick Company, Niles, Ill. Original filed, act of 1946, Principal Register, Feb. 8, 1952; amended to application, Supplemental Register, July 6, 1953, Serial No. 624,724.

CONTAC-DRI

For Printing Inks.
Claims use since May 24, 1948.

580,864. (Class 50. Merchandise Not Otherwise Classified.) Gordon Plastic Products Corp., Lynn, Mass. Original filed, act of 1946, Principal Register, May 21, 1952; amended to application, Supplemental Register, June 30, 1953, Serial No. 630,005.

Tree-Brite

For Christmas Tree Ornaments.
Claims use since Jan. 5, 1952.

580,865. (Class 46. Foods and Ingredients of Foods.) Joseph G. Huter, Louisville, Ky. Original filed, act of 1946, Principal Register, June 24, 1952; amended to application, Supplemental Register, July 28, 1953, Serial No. 631,666.

BOUR BONS

For Candy.
Claims use since June 12, 1952.

580,866. (Class 32. Furniture and Upholstery.) The F. H. Lawson Company, Cincinnati, Ohio. Original filed, act of 1946, Principal Register, July 24, 1952; amended to application, Supplemental Register, July 30, 1953, Serial No. 632,992.

HAN·DE·DOR

For Wall Cabinets.
Claims use since June 13, 1952.

580,867. (Class 51. Cosmetics and Toilet Preparations.) Makers of Kal, Inc., Los Angeles, Calif. Original filed, act of 1946, Principal Register, Aug. 4, 1952; amended to application, Supplemental Register, June 8, 1953, Serial No. 633,458.

Klorfil

Applicant claims ownership of Registration No. 560,330.
For Tooth Powder.
Claims use since May 2, 1952.

580,868. (Class 39. Clothing.) Chipman Knitting Mills, Easton, Pa. Original filed, act of 1946, Principal Register, Aug. 7, 1952; amended to application, Supplemental Register, Mar. 25, 1953, Serial No. 633,566.

INSIDE-OUT

Applicant claims ownership of Registration No. 299,034.
For Hosiery for Women.
Claims use since Feb. 20, 1930.

580,869. (Class 39. Clothing.) Chipman Knitting Mills, Easton, Pa. Original filed, act of 1946, Principal Register, Aug. 7, 1952; amended to application, Supplemental Register, Mar. 25, 1953, Serial No. 633,567.

OUTSIDE-IN

Applicant claims ownership of Registration No. 299,035.
For Hosiery for Women.
Claims use since Feb. 20, 1930.

580,870. (Class 21. Electrical Apparatus, Machines, and Supplies.) Macon Electronics, Division of York Radio & Television Corp., Decatur, Ill. Filed Aug. 15, 1952, Serial No. 633,989.



For Radio and Television Antennas.
Claims use since May 3, 1951.

580,871. (Class 21. Electrical Apparatus, Machines, and Supplies.) The Pyle-National Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Aug. 18, 1952; amended to application, Supplemental Register, July 27, 1953, Serial No. 634,113.

STRATELINE

For Electrical Apparatus — Namely, Explosion Proof Plugs and Receptacles.
Claims use since July 16, 1952.

580,872. (Class 19. Vehicles.) Cobbs Manufacturing Company, Des Moines, Iowa. Original filed, act of 1946, Principal Register, Aug. 20, 1952; amended to application, Supplemental Register, June 17, 1953, Serial No. 634,183.

Clip-On VISOR

For Automotive Vehicle Registration Certificate Holder.
Claims use since Nov. 13, 1951.

580,873. (Class 17. Tobacco Products.) Bieringer-Hanauer Co., Boston, Mass. Original filed, act of 1946, Principal Register, Aug. 28, 1952; amended to application, Supplemental Register, Aug. 7, 1953, Serial No. 634,571.

COPLEY

For Cigars.
Claims use since June 30, 1952.

580,874. (Class 37. Paper and Stationery.) David Kahn, Inc., North Bergen, N. J. Original filed, act of 1946, Principal Register, Sept. 4, 1952; amended to application, Supplemental Register, July 21, 1953, Serial No. 634,851.

Presclik

For Mechanical Pens and Mechanical Pencils.
Claims use since July 7, 1952.

508,875. (Class 17. Tobacco Products.) P. Lorillard Company, New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 4, 1952; amended to application, Supplemental Register, July 30, 1953, Serial No. 634,852.



The drawing is lined for the color gold. Applicant claims ownership of Registrations Nos. 375,644, 572,924, and 575,348.
For Cigarettes.
Claims use since on or about Jan. 16, 1952.

580,876. (Class 1. Raw or Partly Prepared Materials.) B. D. Eisendrath Tanning Co., Chicago, Ill. Original filed, act of 1946, Principal Register, Sept. 5, 1952; amended to application, Supplemental Register, May 29, 1953, Serial No. 634,894.

CIRCASSIAN CALF

For Leather.
Claims use since May 26, 1952.

580,877. (Class 39. Clothing.) M. Beckerman & Sons, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 7, 1952; amended to application, Supplemental Register, July 17, 1953, Serial No. 636,270.



No claim is made to the exclusive use of the term "Deluxe" except in the association shown. Applicant claims ownership of Registration No. 532,553.
For Women's Shoes.
Claims use since July 7, 1952.

580,878. (Class 32. Furniture and Upholstery.) Globe Parlor Furniture Co., High Point, N. C. Original filed, act of 1946, Principal Register, Nov. 7, 1952; amended to application, Supplemental Register, July 31, 1953, Serial No. 637,770.

Contemporary Casual

For Upholstered Furniture—Namely, Sofas and Chairs, and for Tables and Cabinets.
Claims use since Oct. 15, 1951.

580,879. (Class 16. Protective and Decorative Coatings.) Mautz Paint & Varnish Co., Madison, Wis. Original filed, act of 1946, Principal Register, Jan. 8, 1953; amended to application, Supplemental Register, June 18, 1953, Serial No. 640,520.

Paint it NEW... It's FUN to do!

For Rubber Base Paint.
Claims use since Sept. 20, 1950.

580,880. (Class 39. Clothing.) Imperial Cap Works, Denver, Colo. Original filed, act of 1946, Principal Register, Mar. 2, 1953; amended to application, Supplemental Register, July 20, 1953, Serial No. 642,972.

"FITSALL"

For Men's Caps.
Claims use since on or about Jan. 3, 1952.

580,881. (Class 46. Foods and Ingredients of Foods.) N. Dorman & Co., Inc. (N. Y.), New York, N. Y. Filed Apr. 23, 1953, Serial No. 645,784.

GUTA

Applicant claims ownership of Registration No. 299,253.
For Cheese.
Claims use since Feb. 10, 1931.

580,882. (Class 44. Dental, Medical, and Surgical Appliances.) Aldens, Inc., Chicago, Ill. Filed May 26, 1953, Serial No. 647,683.

Aldens

For Sanitary Napkins, Sanitary Belts, Sanitary Panties, Sanitary Briefs, and Sanitary Shields.
Claims use since Jan. 4, 1949.

Service Mark

580,883. (Class 103. Construction and Repair.) Herman C. Frank, Billings, Mont. Original filed, act of 1946, Principal Register, Nov. 20, 1952; amended to application, Supplemental Register, July 10, 1953, Serial No. 638,358.

FOOTWEARMOBILE

For Door to Door Shoe Shine and Shoe Repair Service.
Claims use since June 1, 1952.

TRADE-MARK REGISTRATIONS RENEWED

92,339. "VOLCANO" AND DESIGN. Registered July 1, 1913. Industrial Chemical Company. Re-renewed July 1, 1953, to West Virginia Pulp and Paper Company, New York, N. Y., a corporation of Delaware. Natural Black or Vegetable Black, a Substitute for Lampblack. Class 6.

92,823. PAMUDO. Registered July 29, 1913. Pacific Mutual Door Company, Tacoma, Wash., a corporation of Washington. Re-renewed July 29, 1953. Doors, Sash, and Moldings. Class 12.

92,981. "CRYLIGHT" ETC. AND DESIGN. Registered Aug. 12, 1913. Heath & Milligan Mfg. Co., Chicago, Ill. Re-renewed Aug. 12, 1953, to The Glidden Company, Cleveland, Ohio, a corporation of Ohio. Green Paste Paint. Class 16.

93,501. SAMOLINE. Registered Sept. 16, 1913. United Supply Company. Re-renewed Sept. 16, 1953, to Boyle-Midway Inc., New York, N. Y., a corporation of Delaware. Cleaning Material for Wood, Metal, and Other Objects. Class 52.

94,503. "SAPCO" AND DESIGN. Registered Dec. 9, 1913. Strohmeyer & Arpe Company, New York, N. Y., a corporation of New York. Re-renewed Dec. 9, 1953. Mineral Wax. Class 15.

94,671. ARISTOCRAT. Registered Dec. 23, 1913. Russell Playing Card Co., Millitown, N. J., and New York, N. Y. Re-renewed Dec. 23, 1953, to The United States Playing Card Company, Cincinnati, Ohio, a corporation of Ohio. Playing Cards. Class 22.

94,714. "COINTREAU" ETC. AND DESIGN. Registered Dec. 30, 1913. Cointreau Pere et Fils, Angers, France. Re-renewed Dec. 30, 1953, to Cointreau Corporation, Pennington, N. J., a corporation of New Jersey. Liqueur. Class 49.

94,774. TAURIL. Registered Dec. 30, 1913. Ungarische Gummiwaarenfabriks Actiengesellschaft, Budapest, Austria-Hungary. Re-renewed Dec. 30, 1953, to The Anchor Packing Company, Philadelphia, Pa., a corporation of New Jersey. Hollow and Solid Rubber Tires. Class 35.

301,768. EPI-CURIO. Registered Mar. 14, 1933. Stephen Leeman Products Corporation, New York, N. Y. Renewed Mar. 14, 1953, to Stephen Leeman Products Company, West Nyack, N. Y., a firm. Pottery Bowls, Jars, and Vases. Class 30.

303,191. HI-VI. Registered May 16, 1933. Clifford L. Iorns, doing business as Hi-Vi Sales Corporation, St. Louis, Mo. Renewed May 16, 1953, to Pets Meat Packing Company, Rush Springs, Okla., a firm. Soy Bean Oil for Use in Foods and Ingredients of Foods. Class 46.

303,234. "EARL" AND DESIGN. Registered May 16, 1933. Earl Fruit Company. Renewed May 16, 1953, to Di Giorgio Fruit Corporation, San Francisco, Calif., a corporation of Delaware. Fresh Fruits—Namely, Pears and Grapes. Class 46.

303,299. REPRESENTATION OF CARTON. Registered May 23, 1933. West Disinfecting Company, Long Island City, N. Y., a corporation of New York. Renewed May 23, 1953. Cleaning Preparations of General Utility in Liquid, Paste, and Powder Form, Etc. Class 4.

303,478. REPRESENTATION OF CARTON. Registered May 23, 1933. West Disinfecting Company, Long Island City, N. Y., a corporation of New York. Renewed May 23, 1953. Air Purifying Preparations, Antiseptics, Antiseptic Preparations, Etc. Class 18.

303,528. SHUFLEX. Registered May 30, 1933. Endicott Johnson Corporation, Endicott, N. Y., a corporation of New York. Renewed May 30, 1953. Middle Sole Material for Shoes Composed Primarily of Rubber Compound and Cotton Fibre. Class 50.

304,505. "TOP FLITE" AND DESIGN. Registered July 11, 1933. Wilkins-Rogers Milling Co., Inc., Washington, D. C., a corporation of Virginia. Renewed July 11, 1953. Wheat Flour. Class 46.

304,548. "DUGAN'S" ETC. AND DESIGN. Registered July 11, 1933. Dugan Brothers of New Jersey, Inc., Newark, N. J., a corporation of New Jersey. Renewed July 11, 1953. Bread, Cakes, and Pies. Class 46.

304,575. SHUFLEX. Registered July 11, 1933. Endicott Johnson Corporation, Endicott, N. Y., a corporation of New York. Renewed July 11, 1953. Middle Soles for Shoes. Class 39.

304,828. ROCK-FAST. Registered July 18, 1933. Joseph Bancroft & Sons Co., Wilmington, Del., a corporation of Delaware. Renewed July 18, 1953. Window Shade Fabrics. Class 42.

304,835. "VIVID" AND DESIGN. Registered July 18, 1933. Vivid, Incorporated, Chicago, Ill. Renewed July 18, 1953, to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y., a corporation of New York. Hectograph, Typewriter, Copying, and Wrapping Paper, and Pencil Leads. Class 37.

304,878. BLACOSOLV. Registered July 18, 1933. G. S. Blakeslee & Co., Cicero, Ill., a corporation of Illinois. Renewed July 18, 1953. Solvents of the Hydrocarbon Group, and the Like, for Cleaning Castings. Class 52.

304,887. FOSSILITE. Registered July 18, 1933. L. A. Salomon & Bro. Renewed July 18, 1953, to L. A. Salomon & Bro., New York, N. Y., a firm. Kieselguhr, Infusorial Earth, Diatomaceous Earth, Fossil Flour, and Tripoli. Class 1.

305,164. DRIPETTE. Registered Aug. 8, 1933. West Bend Aluminum Co., West Bend, Wis., a corporation of Wisconsin. Renewed Aug. 8, 1953. Coffee Making Percolators. Class 13.

305,246. DUGAN'S. Registered Aug. 8, 1933. Dugan Brothers of New Jersey, Inc., Newark, N. J., a corporation of New Jersey. Renewed Aug. 8, 1953. 100% Whole Wheat Products—Namely, Bread, Raisin Bread, Sandwich Loaf Bread, Etc. Class 46.

305,304. OSRAY. Registered Aug. 15, 1933. Gevaert Photo-Producten, Naamlooze Vennootschap (Photo-Produits Gevaert) Societe Anonyme, Oude-God, Belgium. Renewed Aug. 15, 1953, to Gevaert Photo-Producten N. V., Mortsel, Belgium, a company organized under the laws of the Kingdom of Belgium. Sensitized Photographic Papers, Plates, Films, Roll Films, Etc. Class 26.

305,360. "COTY-PARIS" ETC. AND DESIGN. Registered Aug. 15, 1933. Coty, Inc., Wilmington, Del., and New York, N. Y. Renewed Aug. 15, 1953, to Coty, Inc., New York, N. Y., a corporation of Delaware. Perfume, Toilet Water, Face Powder, Etc. Class 51.

305,531. PYRALUX. Registered Aug. 22, 1933. E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Renewed Aug. 22, 1953. Ready Mixed Paints, Paste Paints, Dry Paints, Etc. Class 16.

305,555. LITTLE SLAM. Registered Aug. 22, 1933. Lewel Mfg. Co. Inc. Renewed Aug. 22, 1953, to Lewel Manufacturing Co., Inc., New York, N. Y., a corporation of New Jersey. Step-In Girdles. Class 39.

305,609. "OLD CONSTITUTION" AND REPRESENTATION OF SHIP. Registered Aug. 22, 1933. Fruit Industries, Ltd., Los Angeles, Calif., and New York, N. Y. Renewed Aug. 22, 1953, to California Wine Association, San Francisco, Calif., an association organized under the laws of California. Wines. Class 47.

305,867. "BRISTOL" ETC. AND DESIGN. Registered Aug. 29, 1933. The Horton Manufacturing Company, Bristol, Conn. Renewed Aug. 29, 1953, to Union Hardware Company, Torrington, Conn., a corporation of Connecticut. Golf Clubs. Class 22.

305,957. TENSO-LOK. Registered Aug. 29, 1933. The Astrup Company, Cleveland, Ohio, a corporation of Ohio. Renewed Aug. 29, 1953. Lateral Awning Arms. Class 13.

306,060. "BLUESEAL W" ETC. AND DESIGN LINED FOR BLUE. Registered Sept. 5, 1933. Watling Scale Company, Chicago, Ill., a corporation of Illinois. Renewed Sept. 5, 1953. Coin-Controlled Weighing Machines. Class 26.

306,087. "BLUE SEAL" ETC. AND DESIGN LINED FOR BLUE. Registered Sept. 5, 1933. Watling Scale Company, Chicago, Ill., a corporation of Illinois. Renewed Sept. 5, 1953. Coin-Controlled Vending Machines. Class 23.

306,187. KAOMAGMA. Registered Sept. 12, 1933. John Wyeth & Brother, Incorporated, Philadelphia, Pa. Renewed Sept. 12, 1953, to American Home Products Corporation, doing business as Wyeth Laboratories, Philadelphia, Pa., and New York, N. Y., a corporation of Delaware. Preparation Consisting of a Colloidal Suspension of Kaolin in Alumina Hydroxide for the Treatment of Hyperistalsis, Etc. Class 18.

306,361. ISLEWORTH. Registered Sept. 19, 1933. Chase Investment Company. Renewed Sept. 19, 1953, to Chase Groves, Inc., Sanford, Fla., a corporation of Florida. Fresh Citrus Fruits. Class 46.

306,577. "SANI-SLEEP" AND DESIGN. Registered Sept. 26, 1933. Superior Felt & Bedding Co. Renewed Sept. 26, 1953, to The Englander Company, Inc., Chicago, Ill., a corporation of Delaware. Mattresses. Class 32.

306,659. "KLEER-HED" AND DESIGN. Registered Sept. 26, 1933. Blackstone Remedies Co. Renewed Sept. 26, 1953, to Whitehall Pharmacal Company, New York, N. Y., a corporation of Illinois. Headache Powders. Class 18.

306,957. AUTUMN HARVEST. Registered Oct. 10, 1933. Dickinson & Co., Chicago and Eureka, Ill. Renewed Oct. 10, 1953, to Dickinson & Co., Chicago, Ill., a corporation of Illinois. Canned Vegetables. Class 46.

306,961. "VIBRO-CENTRIC". Registered Oct. 10, 1933. The Black & Decker Manufacturing Company, Towson, Md., a corporation of Maryland. Renewed Oct. 10, 1953. Electric Portable Valve Seat Grinders and Parts Thereof. Class 21.

307,065. "NIBS" ETC. AND DESIGN LINED FOR YELLOW AND RED. Registered Oct. 10, 1933. National Licorice Company, Brooklyn, N. Y., a corporation of New York. Renewed Oct. 10, 1953. Licorice Candy. Class 46.

307,299. TUX. Registered Oct. 24, 1933. Henry W. Baldwin, doing business as Baldwin Laboratories, Saegertown, Pa. Renewed Oct. 24, 1953, to Boyle-Midway Inc., New York, N. Y., a corporation of Delaware. Insecticide and Fly Killer for Use on Cattle. Class 6.

307,386. OLYMPIC. Registered Oct. 24, 1933. Fruit Industries, Ltd., Los Angeles, Calif., and New York, N. Y. Renewed Oct. 24, 1953, to California Wine Association, San Francisco, Calif., an association organized under the laws of California. Wines. Class 47.

307,453. LAS PALMAS. Registered Oct. 24, 1933. B. Cribari & Sons, San Jose, Calif. Renewed Oct. 24, 1953, to B. Cribari & Sons, Fresno, Calif., a firm. Wines. Class 47.

307,464. "BLACK FLAG" ETC. AND DESIGN. Registered Oct. 24, 1933. The Black Flag Company, Baltimore, Md. Renewed Oct. 24, 1953, to Boyle-Midway, Inc., New York, N. Y., a corporation of Delaware. Hand Sprays for Liquid and Powder Insecticides. Class 23.

307,471. STOMASEPTINE. Registered Oct. 24, 1933. Stomaseptine Company. Renewed Oct. 24, 1953, to Stomaseptine Corporation, New York, N. Y., a corporation of New York. Antiseptic Powder Used for General Antiseptic Purposes and for Feminine Hygiene. Class 18.

307,765. REPRESENTATION OF GREEK LETTERS (PHI ALPHA THETA). Registered Oct. 31, 1933. Phi Alpha Theta, Greeley, Colo. Renewed Oct. 31, 1953, to Phi Alpha Theta, Allentown, Pa., a corporation of Pennsylvania. Fraternity Badges, Lapel Buttons; Scarf, Lapel, and Breast Pins; Cuff Links, Etc. Class 28.

308,014. "UNDERWOOD" ETC. AND REPRESENTATION OF TYPEWRITER. Registered Nov. 14, 1933. Underwood Elliott Fisher Company. Renewed Nov. 14, 1953, to Underwood Corporation, New York, N. Y., a corporation of Delaware. Typewriting Machines and Typewriting Machine Parts. Class 23.

308,048. ARDENA HAIR-OFF. Registered Nov. 21, 1933. Elizabeth Arden, Inc. Renewed Nov. 21, 1953, to Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Preparation for Removing Superfluous Hair. Class 51.

308,053. BURROUGH'S "BEEFEATER" ETC. AND DESIGN. Registered Nov. 21, 1933. James Burrough Limited, London, England, a limited liability company, registered under the laws of Great Britain. Renewed Nov. 21, 1953. Gin. Class 49.

308,118. WELSKEN. Registered Nov. 21, 1933. Alvin A. Wilkinson, doing business as Welsken Laboratories. Renewed Nov. 21, 1953, to John Walter Wilkinson and J. Miller Duncan, executors of the estate of Alvin A. Wilkinson (deceased)), doing business as Welsken Laboratories, Spartanburg, S. C. Preparation for the Treatment of Eczema, Tetter, Ringworm, Etc. Class 18.

308,289. SWANEE. Registered Nov. 28, 1933. S. H. Kress & Co. Renewed Nov. 28, 1953, to National Paper Corporation of Pennsylvania, New York, N. Y., a corporation of Pennsylvania. Linen Towels, Sheets, Table-Cloths, Textile Blankets, Etc. Class 42.

308,313. YOUNG'S. Registered Nov. 28, 1933. Edward Young & Co., Limited, London and Liverpool, England. Renewed Nov. 28, 1953, to Edward Young & Co. Limited, London, England, a limited liability company registered under the laws of Great Britain. Spirits Comprising Whisky and Other Potable Distilled Liquors. Class 49.

308,382. FLEXNAP. Registered Dec. 5, 1933. W. S. Libbey Company, Lewiston, Maine, a corporation of Maine. Renewed Dec. 5, 1953. Rubberized Fabric. Class 42.

308,432. PICKWICK. Registered Dec. 5, 1933. London House, Ltd., New York, N. Y. Renewed Dec. 5, 1953, to The Lambert Company, Jersey City, N. J., and New York, N. Y., a corporation of Delaware. Smokers' Pipes. Class 8.

308,658. FABRICOR. Registered Dec. 12, 1933. McLaurin-Jones Co., Brookfield, Mass., a corporation of Massachusetts. Renewed Dec. 12, 1953. Gummed Paper and Cloth in Both Sheets and Strips Intended Primarily for Use in Reinforcing and Sealing Cartons and Packages. Class 37.

308,697. NICHROME. Registered Dec. 19, 1933. Driver-Harris Company, Harrison, N. J., a corporation of New Jersey. Renewed Dec. 19, 1953. Alloys of Nickel, Chromium, and Iron Containing Less Than Thirty Per Cent, Etc. Class 14.

308,719. GYMSTAND. Registered Dec. 19, 1933. Wayne Iron Works, Wayne, Pa., a corporation of Pennsylvania. Renewed Dec. 19, 1953. Folding Grandstands. Class 12.

308,754. "KERRY KNIGHT" AND DESIGN. Registered Dec. 19, 1933. Rice-Stix Dry Goods Co. Renewed Dec. 19, 1953, to Rice-Stix, Inc., St. Louis, Mo., a corporation of Missouri. Pajamas and Other Nightwear. Class 39.

308,778. "OLD VANDERGRIFT" AND DESIGN. Registered Dec. 19, 1933. Pennsylvania Distilling Co., Inc., Logansport, Pa., and Brooklyn, N. Y. Renewed Dec. 19, 1953, to Joseph S. Finch and Company, Schenley, Pa., a corporation of Pennsylvania. Whiskey. Class 49.

308,895. EVENING IN PARIS. Registered Dec. 26, 1933. Bourjois, Inc., New York, N. Y., a corporation of New York. Renewed Dec. 26, 1953. Powder Puffs. Class 29.

TRADE-MARK REGISTRATIONS CANCELED AND SURRENDERED

378,221. "WFP" AND DESIGN WITHIN TWO INTERLOCKING CIRCLES. Registered June 4, 1940. The Northwest Paper Company, Cloquet, Minn. Paper—Namely, Book, Wrapping, Writing, Bond, Etc. Class 37. Canceled Aug. 12, 1953. Section 7(d).

378,222. "WFP" AND FANCIFUL FIGURE ABOVE DESIGN WITHIN TWO INTERLOCKING CIRCLES. Registered June 4, 1940. The Northwest Paper Company, Cloquet, Minn. Paper—Namely, Book, Wrapping, Writing, Etc. Class 37. Canceled Aug. 12, 1953. Section 7(d).

437,173. VITRON. Registered Mar. 9, 1948. The Vitron Corporation, Wilmington, Del. Glass Fibrous Matted Material, Etc. Class 12. Canceled Aug. 12, 1953. Section 7(d).

504,285. HAMILTON ENAMEL. Registered Nov. 30, 1948. The Champion Paper and Fibre Company, Hamilton, Ohio. Mineral Coated Paper, Etc. Class 37. Canceled Aug. 28, 1953. Section 7(d).

530,638. "BROOKLYN UNION LEHIGH" AND CIRCLE DESIGN. Registered Sept. 12, 1950. Brooklyn Union Coal Company, Inc., Brooklyn, N. Y. Coal. Class 1. Canceled Aug. 21, 1953. Canc. 6069.

546,833. VENT-A-LUME. Registered Aug. 21, 1951. Charles E. Watson, doing business as Ventilated Awning Mfg. Co., Oklahoma City, Okla. Ventilated Metal Awnings. Class 12. Canceled July 24, 1953. Canc. 6052.

549,228. MIRI-KILL. Registered Oct. 9, 1951. Community Exterminating Corp., New York, N. Y. Insecticides. Class 6. Canceled July 24, 1953. Canc. 5884.

557,966. TRANSRECTOR. Registered Apr. 22, 1952. FKG Fritz Kesselring Geratebau A. G., Bachtobel-Weinfelden, Thurgau, Switzerland. Alkali-Vaporous Discharge Tubes. Class 21. Canceled Aug. 28, 1953. Section 7(d).

577,134. HELMS OLYMPIC BREAD THE GOLD MEDAL WINNER AND DESIGN. Registered July 7, 1953. Helms Bakeries, Los Angeles, Calif. Bakery Goods—Namely, Bread. Class 46. Canceled Aug. 21, 1953. Section 7(d).

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Reg. No. 433,412. Registered Oct. 14, 1947. National Grinding Wheel Company, Inc., North Tonawanda, N. Y., a corporation of New York. Republished by registrant.

NATALITE

For Grinding Wheels, Rubbing Bricks, Grinding Blocks Made of Abrasive Materials, in Square, Rectangular, Triangular, or Round Form, Segmental Wheels and Sticks, All Ceramic Bonded With Aluminum Oxide or Corundum Abrasive Grains.
Claims use since June 1915.

Reg. No. 433,413. Registered Oct. 14, 1947. National Grinding Wheel Company, Inc., North Tonawanda, N. Y., a corporation of New York. Republished by registrant.

NATALON

For Grinding Wheels, Rubbing Bricks, Grinding Blocks Made of Abrasive Materials, in Square, Rectangular, Triangular, or Round Form, Segmental Wheels and Sticks, All Ceramic Bonded With Silicon Carbide Abrasive Grains.
Claims use since June 1915.

Reg. No. 433,414. Registered Oct. 14, 1947. National Grinding Wheel Company, Inc., North Tonawanda, N. Y., a corporation of New York. Republished by registrant.

ONALITE

For Grinding Wheels, Rubbing Bricks, Grinding Blocks Made of Abrasive Materials, in Square, Rectangular, Triangular, or Round Form, Segmental Wheels and Sticks, All Resinoid Bonded With Aluminum Oxide or Corundum Abrasive Grains.
Claims use since January 1924.

Reg. No. 433,415. Registered Oct. 14, 1947. National Grinding Wheel Company, Inc., North Tonawanda, N. Y., a corporation of New York. Republished by registrant.

ONALON

For Grinding Wheels, Rubbing Bricks, Grinding Blocks Made of Abrasive Materials, in Square, Rectangular, Triangular, or Round Form, Segmental Wheels and Sticks, All Resinoid Bonded With Silicon Carbide Abrasive Grains.
Claims use since January 1924.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

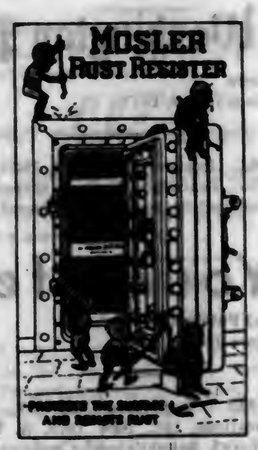
Reg. No. 425,615. Registered Nov. 26, 1946. (Classified in Class 52.) Petroleum Solvents Corporation, New York, N. Y., a corporation of New York. Republished by registrant.
See this number in Class 52 for goods and mark.
Claims use since on or about Feb. 1, 1934.

Reg. No. 425,616. Registered Nov. 26, 1946. (Classified in Class 52.) Petroleum Solvents Corporation, New York, N. Y., a corporation of New York. Republished by registrant.
See this number in Class 52 for goods and mark.
Claims use since on or about Dec. 1, 1935.

CLASS 15

OILS AND GREASES

Reg. No. 223,707. Registered Feb. 8, 1927. The Mosler Safe Company, Hamilton, Ohio, a corporation of New York. Republished by registrant.



The printed words are disclaimed apart from the mark as shown. The little devils are lined for the color red.
For Antirust Preparation and Lubricant.
Claims use since Aug. 1, 1924.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 64,451. Registered Aug. 6, 1907. Frank Antonio Chapa, San Antonio, Tex. Republished by The Dr. J. H. McLean Medicine Company, St. Louis, Mo., a corporation of Missouri.



For Remedial Agent for Stomach and Muscular Troubles.
Claims use since January 1897.

Reg. No. 115,456. Registered Feb. 13, 1917. The Dr. J. H. McLean Medicine Company, St. Louis, Mo., a corporation of Missouri. Republished by registrant.

UNIVERSAL

For Medicines or Preparations Designed and Intended as Remedies for Complaints and Disorders of the Liver, Kidneys, and Stomach and Bilious Affections.
Claims use since the year 1860.

Reg. No. 128,775. Registered Jan. 13, 1920. The Dr. J. H. McLean Medicine Company, St. Louis, Mo., a corporation of Missouri. Republished by registrant.

GUADALUPANO

For Medicinal Preparations and Products — Namely, Purgative Tea, Skin-Ointment, Liniment for Internal and External Use in the Treatment of Affections of the Skin, Muscles, and Bones, and Porous Plasters.
Claims use since January 1897.

Reg. No. 128,776. Registered Jan. 13, 1920. The Dr. J. H. McLean Medicine Company, St. Louis, Mo., a corporation of Missouri. Republished by registrant.

GUADALUPANAS

For Medicinal Preparation—Namely, Purgative Pills.
Claims use since January 1897.

Reg. No. 222,812. Registered Jan. 11, 1927. The Dr. J. H. McLean Medicine Company, St. Louis, Mo., a corporation of Missouri. Republished by registrant.

VOLCO

For Medicinal Preparation for the Treatment and Relief of Head Colds, Headache, Nasal Catarrh, Chapped Skin, Asthma, Neuralgia, Chest Colds, Sunburn, and Skin Irritation.
Claims use since Aug. 1, 1926.

Reg. No. 232,728. Registered Sept. 13, 1927. The Dr. J. H. McLean Medicine Company, St. Louis, Mo., a corporation of Missouri. Republished by registrant.

BALME

For Medicinal Preparation—Namely, a Diuretic Stimulant for the Kidneys.
Claims use since Oct. 1, 1925.

CLASS 25

LOCKS AND SAFES

Reg. No. 222,533. Registered Jan. 4, 1927. The Mosler Safe Company, Hamilton, Ohio, a corporation of New York. Republished by registrant.



The words "Safety-Service-Strength-Security-Protection" are disclaimed apart from the mark as shown. The drawing is lined for red and gold.
For Safes and Safety Cabinets.
Claims use since Dec. 1, 1924.

Reg. No. 352,592. Registered Dec. 7, 1937. The Mosler Safe Company, Hamilton, Ohio, and Covington, Ky., a corporation of New York. Republished by registrant, present address Hamilton, Ohio.

MOSLER

For Portable and Built In Place Safes, Safety Cabinets, Bank Vaults and Safes, Bank Vault and Safe Doors, Gates for Vaults and Safes, Safe Deposit Boxes, Steel Cabinets for Safety Deposit and Built In Place, Chests and Boxes for Safe Keeping of Various Articles, Lockers, Money Chests, Night Deposit Safes, Chutes and Receiving Chests for Use With and Forming Parts of Night Deposit Safes, Fireproof Safes and Filing Cabinets; Locks, Clocks and Keys for Safes and Forming Part Thereof, Vaults, Desks, Drawers and Inside Safe Doors and Gates.
Claims use since Jan. 1, 1874.

CLASS 32

FURNITURE AND UPHOLSTERY

Reg. No. 381,478. Registered Sept. 24, 1940. Kay Manufacturing Corporation, New York and Brooklyn, N. Y., a corporation of New York. Republished by registrant, present address Brooklyn, N. Y.

KAY LOCK

The word "Lock" is disclaimed apart from the mark as shown.
For Inner Spring Units for Mattresses and Cushions.
Claims use since May 1, 1940.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Reg. No. 375,999. Registered Mar. 12, 1940. The Pep Boys—Manny, Moe & Jack, Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

Cornell Clipper

The word "Cornell" is disclaimed apart from the mark as shown.
For Pneumatic Rubber Tires, Pneumatic Tire Casings, and Tubes.
Claims use since Jan. 1, 1939.

CLASS 38

PRINTS AND PUBLICATIONS

Reg. No. 66,538. Registered Dec. 10, 1907. The Washington Post Company, Washington, D. C. Republished by The Washington Post Company, Washington, D. C., a corporation of Delaware.

The Washington Post.

For Newspapers.
Claims use since Dec. 6, 1877.

Reg. No. 354,483. Registered Feb. 15, 1938. The Kingsway Press, Inc., Scarsdale, N. Y., a corporation of New York. Republished by registrant, present address New York, N. Y.

Your Life

For Periodical Publication.
Claims use since June 9, 1937.

Reg. No. 368,733. Registered June 27, 1939. Your Health Publications, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

Your Health

For Magazine Published From Time to Time.
Claims use since Feb. 6, 1939.

Reg. No. 371,636. Registered Oct. 3, 1939. The Kingsway Press, Inc., New York, N. Y., assignor to Yourself Publications, Inc. Republished by Yourself Publications, Inc., New York, N. Y., a corporation of New York.

Your Personality

For Magazine Published From Time to Time.
Claims use since Oct. 27, 1938.

Reg. No. 407,397. Registered June 6, 1944. Your Health Publications, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

EAT & GET SLIM

For Magazine Published From Time to Time.
Claims use since Oct. 24, 1941.

Reg. No. 428,904. Registered Apr. 8, 1947. Commerce Clearing House, Inc., Chicago, Ill., a corporation of Delaware. Republished by registrant.

CCH

For Books, Magazines, Pamphlets, and Topical Law Reporters.
Claims use since July 7, 1927.

Reg. No. 435,391. Registered Dec. 23, 1947. Basic Publications, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

SUCCESS TODAY

For Magazine Published From Time to Time, Printing Articles or Features of Inspirational Nature, Practical Psychology and Business Success.
Claims use since Jan. 14, 1946.

Reg. No. 443,588. Registered Dec. 6, 1949. The Kingsway Press, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

"Your Life" Library Service

The words "Library Service" are disclaimed apart from the mark as shown.
For Books Published From Time to Time.
Claims use since Oct. 26, 1944.

CLASS 39

CLOTHING

Reg. No. 241,180. Registered Apr. 17, 1928. Morris W. Haft & Bros. Inc., New York, N. Y. Republished by The House of Swansdown, Inc., New York, N. Y., a corporation of New York.

Rambler

For Children's, Misses', and Ladies' Dresses, Coats, and Suits.
Claims use since Dec. 29, 1926.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 295,674. Registered July 5, 1932. Morris W. Haft & Brothers, Inc., New York, N. Y. Republished by The House of Swansdown, Inc., New York, N. Y., a corporation of New York.

TRAVL-TWEED

The word "Tweed" is disclaimed apart from the mark shown.
For Woolen Piece Goods and Woolen Suitings and Coatings in the Piece.
Claims use since January 1931.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 132,001. Registered June 8, 1920. International Milling Company, New Prague, Minn. Republished by International Milling Company, Minneapolis, Minn., a corporation of Delaware.

ROBIN HOOD

For Wheat Flour.
Claims use since June 1916.

Reg. No. 132,179. Registered June 15, 1920. International Milling Company, New Prague, Minn. Republished by International Milling Company, Minneapolis, Minn., a corporation of Delaware.



For Wheat Flour.
Claims use since June 1916.

Reg. No. 240,665. Registered Apr. 3, 1928. Wm. H. Stanley, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

Seaspray

For Canned Fish.
Claims use since Apr. 6, 1927.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 336,092. Registered June 23, 1936. Myrurgia, S. A., Barcelona, Spain, a corporation of Spain. Republished by registrant.

GOYESCA

For Perfumes, Toilet Water, Face Powder, Talcum Powder, Bath Salts, Brilliantine, Bandoline, Rouge, Lipstick, Dusting Powder, Sachet, Cold Creams, Lotion for the Skin and Hair, Powder and Rouge Compacts, and Ean Vegetal.
Claims use since September 1919.

Reg. No. 416,326. Registered Sept. 4, 1945. Campana Corporation, Batavia, Ill., a corporation of Delaware. Republished by registrant.

Solitair

For Lipstick and Make-Up Preparations.
Claims use since June 30, 1942.

Reg. No. 417,507. Registered Oct. 30, 1945. Myrurgia, S. A., Barcelona, Spain, a corporation of Spain. Republished by registrant.



EMBRUJO DE SEVILLA

The word "Sevilla" is disclaimed apart from the mark as shown.
For Perfumes, Toilet Creams, Eau de Cologne, Face Lotions, Rouges, Nail Polishes, Dentifrices, Face Powder, Mascara.
Claims use since December 1933.

Reg. No. 428,645. Registered Apr. 1, 1947. Myrurgia, S. A., Barcelona, Spain, a corporation of Spain. Republished by registrant.

MAJA

For Perfumes, Toilet Creams, Eau de Cologne, Face Lotions, Rouges, Nail Polishes, Dentifrices, Face Powder.
Claims use since Sept. 5, 1918.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 185,086. Registered June 10, 1924. Myrurgia, S. A., Barcelona, Spain, a corporation of Spain. Republished by registrant.

MAJA

For Toilet Soaps.
Claims use since May 1, 1920.

Reg. No. 336,093. Registered June 23, 1936. Myrurgia, S. A., Barcelona, Spain, a corporation of Spain. Republished by registrant.

GOYESCA

For Soaps.
Claims use since September 1919.

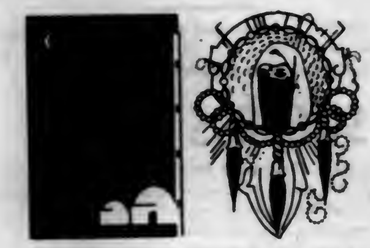
Reg. No. 418,365. Registered Dec. 18, 1945. Myrurgia, S. A., Barcelona, Spain, a corporation of Spain. Republished by registrant.



EMBRUJO DE SEVILLA

The word "Sevilla" is disclaimed apart from the mark as shown.
For Toilet Soaps.
Claims use since October 1943.

Reg. No. 420,827. Registered May 7, 1946. Myrurgia, S. A., Barcelona, Spain, a corporation of Spain. Republished by registrant.



MADERAS DE ORIENTE

For Toilet Soap.
Claims use since June 1927.

Reg. No. 425,615. Registered Nov. 26, 1946. Petroleum Solvents Corporation, New York, N. Y., a corporation of New York. Republished by registrant.

Loosite

For Chemical Solvent and Cleaner Having Penetrant and Corrosion Inhibiting Properties and Useful for Removing Residues of Petroleum Products, Notably Sludge and Gum, for Freeing Sticky Valves, for Cleaning Oil Lines and Screens, and for Inhibiting the Action of Acids.
Claims use since on or about Feb. 1, 1934.

Reg. No. 425,616. Registered Nov. 26, 1946. Petroleum Solvents Corporation, New York, N. Y., a corporation of New York. Republished by registrant.

SILOO

For Chemical Solvent and Cleaner Having Penetrant and Corrosion Inhibiting Properties Useful for Removing Residues of Petroleum Products, Notably Sludge and Gum, for Preventing the Formation and Accumulation of Residues of Petroleum Products, Notably Sludge and Gum, for Keeping Fuel Lines and Fuel Systems Clean, for Preventing Sticky Rings and Valves, for Protecting Bearings and Other Metallic Surfaces Against Corrosion, for Removing Water of Condensation, for Cleaning Fuel Oil Tanks and Heating Equipment, for Treating Clogged Oil Filters, Pipe Lines, Screens, and Burners, for Removing Polymerized Gums and Acting as an Inhibitor Against Electrolysis, for Maintaining Free Flow of Water Through the Radiator and Engine of Internal Combustion Engines, for Keeping Water Clear and Clean and for Retarding Overheating, for Flushing Gear Cases, for Freeing Tightly Bound Parts, Such as Nuts, Bolts, Mufflers, for Removing Aluminum Heads, for Cleaning Bromide Deposits From Carburetor Jets, for Cleaning Fire Arms, Fishing Tackle, Golf Clubs, Locks, Watches, and Precision Instruments, for Use in Reboring and Crank Shaft Grinding and for Cleaning Metallic and Other Surfaces of Dirt, Grease, Carbon, and Other Foreign Materials.
Claims use since on or about Dec. 1, 1935.

REISSUES

OCTOBER 6, 1953

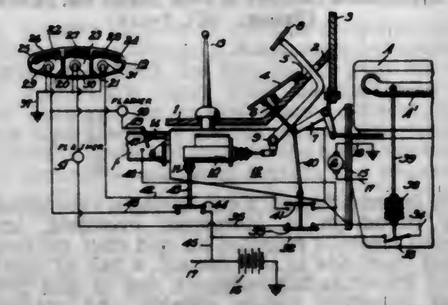
Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

23,719
AUTOMATIC SIGNAL SYSTEM FOR MOTORCARS

Robert S. Coombs, San Francisco, Calif.

Original No. 2,513,712, dated July 4, 1950, Serial No. 86,685, April 11, 1949. Application for reissue May 2, 1951, Serial No. 224,101

8 Claims. (Cl. 340—66)



5. An automatic signaling system for motor vehicles having an internal combustion engine, an intake manifold, an accelerator and a foot brake, comprising in combination, an electrical circuit for said signaling system, a normally open switch for closing said circuit operable only when said internal combustion engine is running and being closed by the pressure drop in the intake manifold, a diaphragm connected with the engine intake manifold for actuating said switch, a visual caution signal energized immediately upon the closing of said switch, a second switch in said circuit operable by pressure upon the accelerator to de-energize the visual caution signal and energize a visual accelerating signal, a visual accelerating signal energized by the closing of said second switch, a third switch in said circuit operable by pressure on the foot brake, and a visual stop signal operable in response to the closing of said third switch.

23,720
ELECTRICAL CONNECTOR

Daniel C. Gillespie, Oak Park, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Original No. 2,577,748, dated December 11, 1951, Serial No. 778,873, October 9, 1947. Application for reissue January 21, 1952, Serial No. 267,399

16 Claims. (Cl. 285—6.5)



1. A cable connector comprising in combination, a tubular body adapted to receive a cable therethrough, and a resilient finger extending from said tubular body at one side thereof and toward the opposite inner surface of the tubular body, said finger on its end and said inner surface being provided with a plurality of gripping teeth and being adapted to grip a cable between it and said surface by means of said teeth for holding the cable in the connector.

PLANT PATENTS

GRANTED OCTOBER 6, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,319
ROSE PLANT

Wilhelm Kordes, Holstein, Germany, assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York

Application September 30, 1952, Serial No. 312,424

1 Claim. (Cl. 47—61)

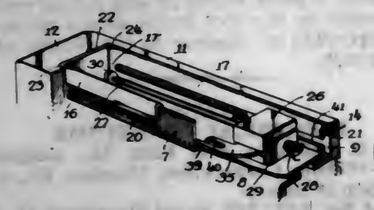
A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by the vigorous growth and attractive foliage of the plant, by the moderate tea fragrance of its flowers, by the hooded form of the buds and the maintenance of such form until the same open, by the Carmine general color tonality of the flowers, lightly overcast with Spectrum Red, and by the white stripe occurring in and confined to a single petal of each flower near the middle of the flower, substantially as herein shown and described.

PATENTS

GRANTED OCTOBER 6, 1953

GENERAL AND MECHANICAL

2,654,087
STAPLE SUPPORT SLIDE AND FEED MEANS FOR STAPLING MACHINES
Samuel Segal, New York, N. Y., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Application May 1, 1951, Serial No. 223,870
7 Claims. (Cl. 1—3)



1. In a magazine for stapling machines, a body portion, a staple support slide, a feeding mechanism comprising a feed block movable longitudinally relative to said staple support slide, means limiting the forward movement of said feed block relative to the staple support slide, and a pair of feed fingers pivotally mounted in said feed block, each of said fingers having a portion extending forwardly a distance sufficient to position said portions flush with the forward edge of said slide when said feed block is in its forward position.

2,654,088
STAPLING MACHINE
Herman J. Spencer, Ingomar, Pa.
Application May 24, 1949, Serial No. 95,009
9 Claims. (Cl. 1—49)



1. A stapling device comprising an upper member and a base member, said members being pivoted in relation to each other adjacent one end, the other ends of said members being free to move toward each other to grip material to be stapled, said upper member having adjacent its other end a head forming a material gripping upper jaw and having a staple driving channel, said base member having adjacent its other end a material gripping lower jaw, means carried by said upper member for feeding staples to said staple driving channel, a staple driving plunger, means mounting said plunger for reciprocating movement in said head, a plunger actuating lever pivotally mounted intermediate its ends on said base and operably connected adjacent one end to said plunger, and an operating lever pivotally mounted on and movable with said upper member, means operably connecting said plunger activating lever and said operating lever whereby operation of said operating lever will actuate said plunger actuating lever and said staple driving plunger to drive a staple into material held between said upper and said lower jaw.

2,654,089
COMBINATION CAP AND EYESHIELD
Morris L. Tannenbaum, Bronx, N. Y.; Abraham J. Springer and William H. Wechter, executors of said Morris L. Tannenbaum, deceased, assignors to Clearasite Corporation of America, Inc., New York, N. Y., a corporation of New York
Application October 9, 1948, Serial No. 53,659
5 Claims. (Cl. 2—10)



5. In combination, a cap having a visor extending therefrom, a glareproof eyeshield, track means pivotally mounted on said visor for movement from side to side thereof, a pair of universally interengaging members, one of said members including means slidably and rotatably mounted on said track means, and means for securing the other of said members to said eyeshield.

2,654,090
LENS VENTILATION IN GOGGLES STRUCTURE
William R. Christensen, Newton Highlands, and Chester E. Cross, East Sandwich, Mass.
Application June 8, 1949, Serial No. 97,864
4 Claims. (Cl. 2—14)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. An anti-fogging and anti-frosting goggles comprising a flexible frame including a flexible part to contact the face of a wearer in substantially sealed relation thereto, transparent lens forming means in the forward side of said frame cooperating therewith to define a substantially sealed chamber behind the lens when the goggles are being worn, ventilating air inlet and outlet ports in said lens forming means respectively along the bottom and top margins thereof, and baffles at said ports for directing a flow of ventilating air upwardly along the inner side of the lens forming means from the lower margin thereof to the upper, said baffles being formed of a transparent material having the same index of refraction as the material of the lens forming means.

2,654,091
WOMAN'S GARMENT
Hildred Nelsen, Chicago, Ill.
Application November 16, 1949, Serial No. 127,600
2 Claims. (Cl. 2—39)



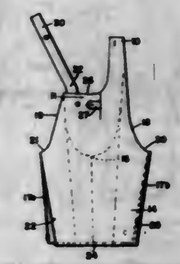
1. A lady's garment of the class described comprising in combination a body portion extending substantially from the hips to the bust line of the wearer, the upper front marginal edge of said body portion having shaped cut-out sections separated by a tongue, a brassière portion adapted to cover and support the breasts detachably secured to said body portion and cooperating therewith to form a single unitary structure, said body portion and said brassière portion being provided with mutually interengaging fastening means permanently secured in predetermined spaced relation along the upper side marginal edges of said body portion and along the outer marginal edges of said brassière portion, said fastening means being adapted to engage each other, and a supplemental fastening element positioned in the center of said brassière portion and being adapted to engage a related fastening element on the tongue of said body portion.

2,654,092
PROTECTING SHIELD OR TOWEL
John Brennish, Philipsburg, Pa.
Application July 28, 1950, Serial No. 176,483
1 Claim. (Cl. 2—50)



A shield of the class described, comprising a length of cloth material having straight side and end edges, an extension integrally formed on one edge of the cloth material intermediate the ends thereof and having a concave longitudinal edge extending in the general direction of the said edge of the cloth material and curved side edges, the ends of the extension extending at acute angles with respect to the said edge of the cloth material and adapted to encircle the neck of a wearer of the shield and the body of the extension forming a collar adapted to closely embrace the neck of the wearer, and tie members secured to the ends of the extension for tying the shield in position on the neck of the wearer.

2,654,093
CHILD'S GARMENT
Gladys Whitcomb Geissmann, New York, N. Y.
Application February 26, 1949, Serial No. 78,516
2 Claims. (Cl. 2—90)



2. Children's overalls comprising two substantially identical flat pieces of material, one having portions adapted to cover the right side of the lower torso and the right leg of the wearer and the other having portions adapted to cover the left side of the lower torso and the left leg of the wearer, said lower torso covering portions being connected together by front and rear seams at the front and rear of the overalls, respectively, each of said pieces adjacent to said front seam being formed with a bib extension, said extensions being joined by said front seam to form a bib adapted to extend up to the neck of the wearer, the pieces having substantially straight upper edges on each side of the bib forming an upper back edge on the overalls adapted to extend in substantially a straight line around the sides and back of the wearer, said upper back edge being located above the waistline of the overalls and adapted to cover portions of the torso of the wearer above the waistline thereof, adjustable tabs on each side of the overalls at its waistline and spaced below the upper back edge of said overalls, adjustable shoulder straps extending from adjacent the middle of said upper back edge to the upper end of said bib, the leg covering portions of said pieces having free side edges and lower ends, and said free side edges of each piece being connected together along a line extending from said lower end of said piece up to the upper ends of said side edges to form the legs of the overalls and a crotch therebetween.

2,654,094
COAT COMBINED WITH MUFF
Joseph Feldman, Bronx, N. Y., assignor to Scher & Feldman, Inc., New York, N. Y., a corporation of New York
Application April 22, 1952, Serial No. 283,577
4 Claims. (Cl. 2—93)

1. A coat having a pair of front panels and a closure between; the upper portion of one front panel being securable to the upper portion of the other front panel; the lower portion of said one front panel being wider than the upper portion and substantially lapping the lower portion of said other front panel; a third panel having one end secured across said one front panel at the upper end of the lower portion thereof; securement members at the upper end of the upper portion of each of said pair of front panels; and interengaging securement members at the unsecured end of the third panel; additional securement members at said one front panel adjacent the line of securement of said third panel to said

one front panel; said third panel being securable selectively across the upper closure and



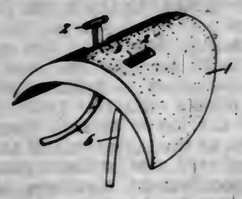
in rolled position adjacent the line of securement of the third panel to the front panel.

2,654,095
CRAVAT
Joseph A. Goguen, West Warwick, R. I.
Application January 3, 1952, Serial No. 264,705
3 Claims. (Cl. 2—153)



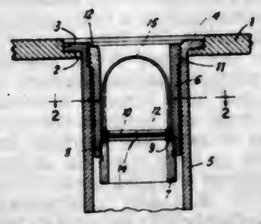
1. A cravat comprising a generally rigid member in the shape of a four-in-hand knot having generally converging side walls, said member being formed with an opening in its back, the walls of which opening provide a generally tapered recess which converges downwardly, means to secure said member to a collar, a breast member having at its upper end an attaching device, said device having a central portion and two wing portions extending at an angle to the central portion forwardly therefrom, each portion carrying a clamping means to secure the breast member to its portion independently of said rigid member, said device with the breast member being of a size to pass through said recess and of a transverse size engaging said converging walls to suspend the breast member from the knot member.

2,654,096
INTERCHANGEABLE SHOULDER PAD
Ruth E. Riley, Los Angeles, Calif.
Application January 9, 1951, Serial No. 205,103
4 Claims. (Cl. 2—268)



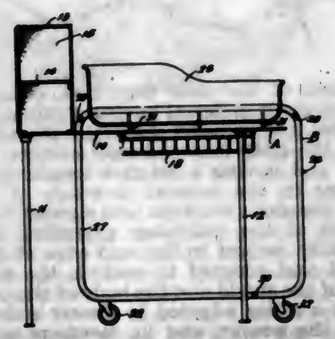
1. The combination with a shoulder pad comprising a pre-formed body member of generally crescent shape in transverse cross-section and of generally wedge shape in longitudinal cross-section, of a plurality of depressions in the upper convexly-curved surface of said body member located in spaced-apart relation, a pair of closely-spaced slits extending from the bottom of each depression through the concavely-curved lower surface of the body member, a flexible element passing through the slits and resiliently gripped between the side walls of the slits, said flexible element overlying the bottoms of the recesses between the slits of each pair of slits and having its ends extended beyond the lower concave surface of the body member, and a plurality of fasteners supported upon the flexible element and arranged to be drawn into and seat within said recesses by pulling the ends of the flexible element.

2,654,097
DRAIN FITTING FOR WASH SINKS AND THE LIKE
Maurice B. Epstein, Brooklyn, N. Y.
Application December 18, 1950, Serial No. 201,336
4 Claims. (Cl. 4—291)



1. A fitting for insertion into the drain pipe of a wash sink, comprising a tubular member, having outside threads at one end to engage internal threads on said pipe at the outlet of said sink, a sleeve at the opposite end of said member having one end enveloped by said member and presenting an internal shoulder therein facing the first-named end, a transverse sieve, a ring engaging said shoulder and having a groove around its inner edge receiving the periphery of said sieve, said ring consisting of two separate halves with abutting ends, and a bail for said member having its ends affixed one to each half of the ring.

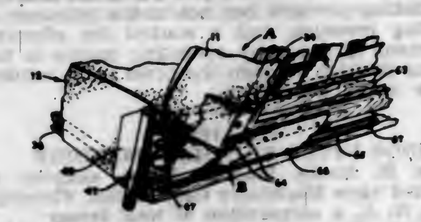
2,654,098
STAND AND BASSINET COMBINATION
Mary E. Heyward, Brockton, Mass., assignor to American Hospital Supply Corporation, Evanston, Ill., a corporation of Illinois
Application August 20, 1948, Serial No. 45,399
4 Claims. (Cl. 5—3)



3. In combination, a stand consisting of a table having a plurality of legs providing a support

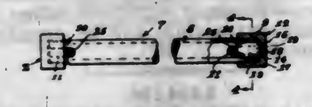
therefore, a cabinet supported upon one end of said table and providing compartments, a wheel-equipped frame having sides spaced apart and removably receiving said table, and a bassinet supported by said frame at a position above said table.

2,654,099
ANTIPUCKERING MEANS FOR SOFA BED UPHOLSTERY
Paige W. Ake and John T. Lester, Tampa, Fla.; said Ake assignor to said Lester
Application April 20, 1950, Serial No. 157,054
6 Claims. (Cl. 5—47)



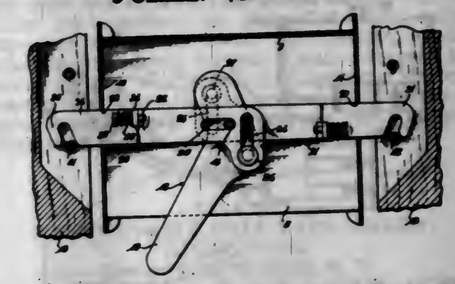
1. In combination with the body-supporting structure of sofa beds, reverting back chairs and the like, said structure including a back presenting a body-supporting surface and having a normally lower edge, a seat presenting a body-supporting surface and having a rear edge, upholstery for the back and seat including a portion of upholstery bridging said lower edge and rear edge and being substantially taut when the body-supporting surfaces of said back and seat are in substantially the same horizontal plane, said portion forming substantially a V when said back is in a normal raised position, and means hingedly connecting said back and seat, including a pivot member with its axis above the apex of said V, anti-puckering means drawing said portion downwardly to form said V, including a flexible member, having opposite ends, secured at one end directly to said portion, a member over which said flexible member is trained and disposed below said portion, and means securing the other end of said flexible member to said back, said flexible member being taut when said back is in its raised position, whereby when said back is in a raised position said flexible member is drawn taut to eliminate puckering of said portion of upholstery.

2,654,100
SPRING SUPPORT ATTACHMENT
Alfred H. Bennett, Hyde Park, Pa.
Application February 15, 1952, Serial No. 271,816
7 Claims. (Cl. 5—244)



1. An attachment for a box-type bed spring comprising an elongated rigid member having longitudinally extending slots opening outwardly of the ends thereof adapted to engage portions of the parallel longitudinal sides of the top frame of a supporting spring structure, and cap members detachably connected to the ends of the elongated member for retaining the parallel frame portions in said slots and for clamping the elongated member thereto to position the attachment above and in engagement with the upper end of a transverse row of coil springs of the spring structure.

2,654,101
DISPLAY BEDRAIL
Raymond W. Norris, Warren, Pa.
Application November 13, 1951, Serial No. 255,969
5 Claims. (Cl. 5—287)



1. A display bed rail comprising a body member having spaced end walls, a laterally extending fulcrum pin positioned between said end walls, a lever pivotally mounted on said fulcrum pin, a pair of oppositely directed hook shanks extending through said end walls, a hook on the outer end of each of said shanks, each of said shanks having a longitudinally extending slot therein through which said fulcrum pin passes, each of said shanks also having a transversely extending slot therein, and pins on said lever within said transversely extending slots whereby pivotal movement of said lever causes longitudinal movement of said shanks.

2,654,102
BOAT STRUCTURE
Burke Frees, Jr., and Ingvald O. Flole, Minneapolis, Minn.
Application September 1, 1948, Serial No. 47,172
12 Claims. (Cl. 9—6)

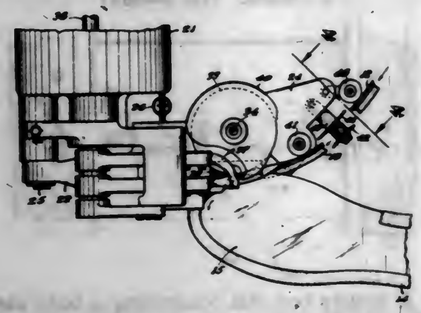


10. A plywood boat structure having in combination, a plurality of transversely extending rigid rib members, a layer of plywood secured to the outer sides of said rib members, said rib members having slots at either side thereof respectively, and a chine strip at each side of said boat extending longitudinally of said boat and received in said slots inwardly of said layer, said chine strip extending from the bottom of the boat at the rear upwardly to the front end of said boat and to a point a material distance above said bottom, the sides of said boat converging to a point at their top edges and to a central prow line adjacent said top edges, said prow line curving upwardly and forwardly to said point, said layer of plywood being in sections which meet substantially at the outer side of said chine strip.

2,654,103
MACHINE AND PROCESS FOR MAKING PLATFORM SOLES OR SHELLS
Andrew R. Ridderstrom, Nahant, Mass., assignor to Prime Manufacturing Company, Lynn, Mass., a corporation of Massachusetts
Application August 2, 1950, Serial No. 177,187
10 Claims. (Cl. 12—24.5)

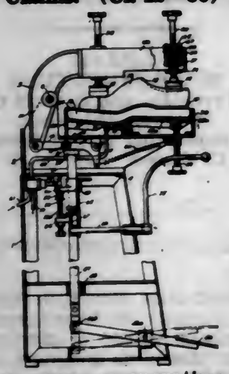
4. The process of making platform shells which includes the steps of progressively presenting to the edge of a sole blank a binding strip having an exposed stiff, resilient core substantially wider

than the thickness of the sole and an edge-free adhesive cover, pressing the core against the edge of the sole blank, and simultaneously folding the marginal portions of the cover over the opposite



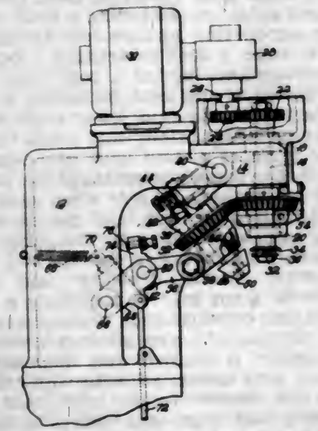
faces of the sole blank securing them thereto and tucking the cover into an angle vertex between the lowermost face of the sole and the wall of the core.

2,654,104
SHOE CEMENTING PRESS
Maxwell C. Suerken, Erie, Pa., assignor to Lamac Process Company, Erie, Pa., a corporation of Delaware
Application June 2, 1949, Serial No. 96,709
2 Claims. (Cl. 12—36)



1. In a shoe press, co-operating press members, one of which comprises a frame carrying an inflatable pad and the other an arm pivoted on the frame intermediate its end and carrying on one end a pressure member engaging a shoe on the pad, a toggle for opening and closing the press comprising links pivoted respectively to the frame and to the other end of the arm and pivoted to each other at the knee of the toggle, the toggle being movable to a released position in which the press is open and the knee of the toggle is on one side of the center line of the toggle and a set position in which the press is closed and the knee of the toggle is on the other side of the center line of the toggle, a stop limiting movement of the toggle past the set position, a manual control for moving the toggle to the set or closed position, said control including a plunger co-operating with the knee of the toggle to move it to the closed or set position and being disconnected from the toggle and biased away from the closed position, said press in the closed position developing no cementing pressure, an air pressure line, a three way valve having a way connected to the pad, a way connected to the air pressure line, and a way connected to a vent, said valve being movable to a venting position with the way to the line closed and the way to the vent open and to an inflating position with the way to the vent closed and the way to the line open, valve operating means responsive to movement of the manual control to the closed position of the press for moving the valve from the venting to the inflating position to cause inflation of the pad to cementing pressure whereby the reaction forces on the toggle tend to hold the toggle in set position independent of the manual control, means for holding the valve operating means in the inflating position independent of the manual control, means biasing the toggle away from the set position with sufficient force to return the toggle to the released position in the absence of inflating pressure but not in the presence of inflating pressure, and a control for effecting movement of the valve operating means to the venting position to open the press upon venting of the inflating pressure.

2,654,105
SHOE UPPER TRIMMING MACHINE
Milton H. Rooke, Malden, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application September 25, 1952, Serial No. 311,469
6 Claims. (Cl. 12—57.6)

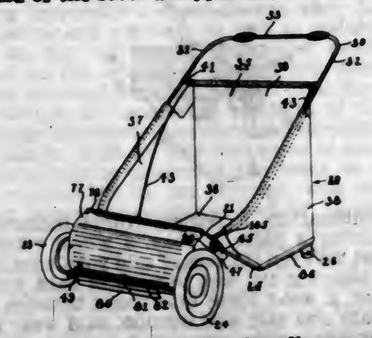


1. In a pinking machine for trimming the marginal border of a workpiece along a curved path, a driven cutting roll member operatively rotatable about a fixed axis and having thereon a die the cutting edges of which are peripherally disposed in the shape of a conic, and a conical presser roll member rotating concomitantly with said cutting roll about an axis inclined to the axis of the cutting roll so that both rolls are disposed in contiguous side-by-side relation with one another, whereby a workpiece, when presented in the bite of the rolls, will be simultaneously fed and trimmed.

2,654,106
LAWN SWEEPER
Edwin D. Parker, Springfield, Ohio, assignor to Parker Sweeper Company, a corporation of Ohio
Application April 24, 1947, Serial No. 743,629
6 Claims. (Cl. 15—79)

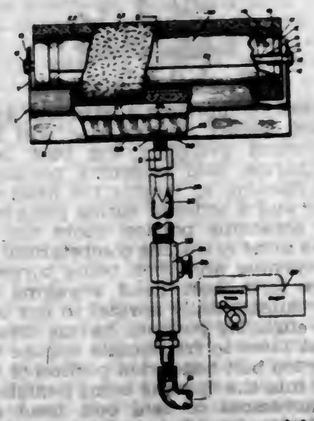
1. A sweeper comprising in combination, a sweeper head, said head including a frame and supporting mechanism for the frame including a pair of wheels on opposite sides of the frame and axle means for supporting the wheels in axial alignment, said frame being journaled on the axle means, said head including a rotatable

brush supported by the frame on an axis parallel with and horizontally displaced with respect to the axis of the axle means, gearing between the wheels and brush; a second supporting mechanism for the frame having a portion adapted to ride on the surface being swept, one of said supporting mechanisms being arranged forwardly of the other; a rearwardly and upwardly extending handle for the head; a pivotal connection for the handle, said pivotal connection being on an axis coinciding with the axis of the axle means, said frame having an arcuate slot, the axis of the arc of the slot coinciding with the axis of the axle means; a bolt extending through one end of the second supporting mechanism, the



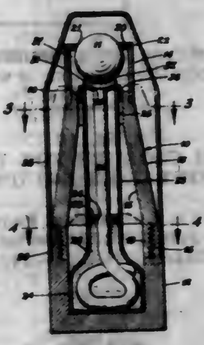
slot and a portion of the handle spaced from said pivotal connection of the handle for connecting the second supporting mechanism with the handle and for attaching the handle and frame to one another, a member for resisting pivoting of the second supporting mechanism, about said bolt, in a direction of pivoting wherein the handle would be lowered relative to the surface being swept when the second supporting mechanism is in a normal supporting position; and stop means for preventing pivoting of the second supporting mechanism, about said bolt, from a normal supporting position in the direction of pivoting opposite to said first mentioned direction.

2,654,107
PAINT APPLYING ROLLER
Osborn P. Magoon, Alameda, Calif., assignor to Leonard C. Davey, Alameda, Calif.
Application April 5, 1949, Serial No. 85,528
11 Claims. (Cl. 15—128)



1. A paint applying device comprising, a roller provided with a relatively soft paint applying exterior surface, an elongated channel-like shield including a pair of opposite end walls, said roller being positioned longitudinally of said shield and partially within the latter, bearings respectively adjacent the ends of said shield supporting said roller for rotation, an elongated paint supply reservoir extending along the bottom of said channel-like shield having a wall adjacent said roller formed with discharge openings directed toward the latter, a pressure supply conduit for paint opening into said reservoir for supplying paint to the latter under pressure.

2,654,108
REVOLVABLE BALL TYPE LIQUID APPLICATOR
Lee J. Seelai, Buffalo, N. Y.
Application March 17, 1948, Serial No. 15,362
8 Claims. (Cl. 15—122.7)

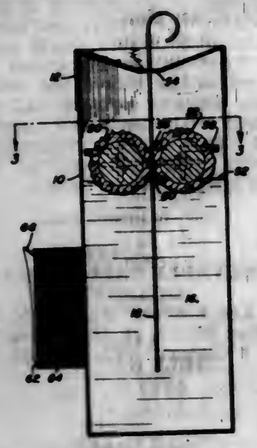


1. A liquid applicator, comprising a body, a revolvable magnetically attractable ball partially housed within said body with a portion of said ball projecting exteriorly of said body, a permanent magnet member on said body and having an outer seat for said ball, a liquid absorbent pad arranged within said body to provide an inner seat for said ball, and means within said body for maintaining said pad saturated with liquid, said ball being adapted to be pressed against said pad against the urging of said magnet member to permit a wiping engagement between said pad and ball when the latter is revolved whereby said pad transfers liquid to said ball.

2,654,109
DIP STICK WIPER
Gwynn D. Barnes, San Antonio, Tex.
Application March 21, 1951, Serial No. 216,657
1 Claim. (Cl. 15—140.3)

A dip-stick cleaner comprising a vertically elongated receptacle, an inverted substantially frusto-pyramidal cover removably positioned at the top of said receptacle and provided at the center thereof with a dip-stick receiving opening, a quantity of an oil-solvent provided in said receptacle and having its level spaced downwardly from said cover, a pair of horizontal rollers rotatably mounted in said receptacle above the level of solvent therein, tubular sleeves of absorbent material carried by said rollers and having lower portions thereof immersed in said solvent, said sleeves being in contact in a vertical plane aligned with said opening whereby a dip

stick may be inserted through said opening between the sleeves and the rollers rotated thereby,



and ratchet means for preventing rotation of said rollers when the dip stick is withdrawn.

2,654,110

DIAPHRAGM CLOSURE FOR PASTE SHOE POLISH CONTAINER EQUIPPED WITH A DAUBER

Howard L. Auten, East Peoria, Ill.

Application June 17, 1950, Serial No. 168,764
3 Claims. (Cl. 15—140.4)



3. An applicator closure adapted for use with a container filled with solids, comprising an upwardly arched diaphragm body providing a cavity having a rim portion around the mouth of said cavity arranged to engage the peripheral edge of said container for solids, an applicator carried by said diaphragm within said cavity, said diaphragm in one set position substantially enclosing said applicator within said cavity, and said diaphragm being reversible to a set depending position wherein said applicator is disposed outside of said cavity.

2,654,111

COSMETIC APPLICATOR

Ethel M. Ready, New York, N. Y.

Application May 13, 1950, Serial No. 161,849
1 Claim. (Cl. 15—227)



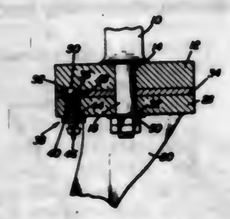
An applicator unit formed from a single sheet of pliable tissue material folded in half to form a finger receiving pocket, one-half containing a cut-out portion adapted to facilitate finger insertion into said pocket, said cut-out portion being in the form of a triangle having a rounded apex and a base which is adjacent to but spaced from one of the perimeter edges with respect to the one-half from which it is cut and being of a size to permit ready insertion of the user's finger, said halves united along their perimeter edges.

2,654,112

CASTER HAVING A SWIVEL LOCK

Edward W. Millhizer, Detroit, Mich.

Application February 10, 1950, Serial No. 143,519
1 Claim. (Cl. 16—35)



In combination, a vehicle frame including a clevis having a plate, a yoke, a wheel rotatably supported between the legs of said yoke, means rotatably securing the web portion of said yoke to said plate, a wear plate interposed between said clevis plate and said web portion, said wear plate being provided with an aperture, means for releasably locking said web portion on said clevis plate in a predetermined position against rotation, said means including a spring-pressed ball carried by said web portion, said ball normally extending through said wear plate aperture, said clevis plate having a recess for receiving said ball, and means operatively connected to said web portion for manual adjustment of tension on said ball.

2,654,113

CASTER

Philip D. Becker, Hingham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application November 4, 1950, Serial No. 194,081
4 Claims. (Cl. 16—42)



1. A caster, comprising a base and an attaching portion joined to the base and having a medial portion overlying the base in spaced relation thereto, said attaching portion having a central opening to receive the head of a bolt or the like and a series of spring arms extending from the attaching portion about the opening, said spring arms extending a substantial distance into the opening and then being turned downwardly to form bolt head engaging portions which are substantially normal to the base, said bolt head engaging portions having inner shoulderless flat faces to frictionally engage the sides of an inserted bolt head, said portion of the arms extending into the opening being flexible to allow vertical movement of said bolt head engaging portions during insertion and withdrawal of the bolt head.

2,654,114

DRAPERY HANGER FOR TRAVERSE RODS

Joseph V. Graber and John N. Graber, Madison, Wis., assignors to The Graber Company, Middleton, Wis., a partnership

Application May 12, 1950, Serial No. 161,692
3 Claims. (Cl. 16—93)



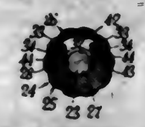
1. A drapery carrier for supporting a drapery from a channeled traverse rod, said carrier comprising integrally a spool-shaped slide having a rounded shank pivotally as well as slidably movable on the rod, inner and outer heads connected to the opposite ends of the shank and having rounded peripheral portions of like radius, whereby, in all oscillatory positions of the slide, to engage simultaneously the corresponding heads of a similar slide, at least the outer of said heads having a cavity to receive the head of a screw and surrounded by an annular wall and said shank having an opening leading through the shank and the inner head from said cavity for receiving the stem of said screw, and a hanger dependent from the outer head, said hanger being of a width materially less than the width of the rounded peripheral portions of the outer head, the said hanger being integrally connected with the outer head immediately adjacent the shank of said slide, said wall projecting beyond said hanger, the hanger further being provided with a rearward offset spaced below the outer head and having its lower end substantially in the plane of said shank.

2,654,115

SNAP-ON BASKET HANDLE

Clare H. Kafer, Palmyra, Mich., assignor to Revco, Inc., Deerfield, Mich.

Application April 10, 1951, Serial No. 220,199
6 Claims. (Cl. 16—125)



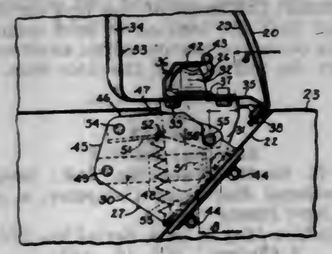
1. A handle adapted to be assembled over a ball having connected ends comprising two semicylindrical members formed axially with cavities to provide clearance around the ball and with diametrically disposed marginal portions adapted to abut each other, at least one of said marginal portions being formed with longitudinally spaced inwardly extending flanges defining a notch therebetween, at least another of said marginal portions being formed with an upstanding tenon having a tapered outer surface and a rabbet groove intermediate said surface and said marginal portion, the width of said groove being substantially equal to the width of said flanges, said tenon being also formed with a stop shoulder filling a portion of said groove and interrupting the continuity thereof, said shoulder and notch having substantially the same length and width and being so positioned on said marginal portions that they register when the two members are superimposed and aligned, at least one of said members being resilient whereby said tapered surface and flange may slide over each other under radially applied compressive force to bring said flanges into interlocking engagement with said groove and said shoulder into engagement with said notch to restrain said members from endwise displacement, the remaining marginal portions of said members being respectively formed with a complementary inwardly extending flange and an upstanding tenon having a groove between its marginal portion and outer face of the tenon adapted to mutually interlock when the first named flanges and tenon are brought into said interlocking engagement.

2,654,116

HOOD LATCH

Arthur Claud-Mantle, Trumbull, Conn., assignor to The Bassick Company, Bridgeport, Conn., a corporation of Connecticut

Application January 14, 1949, Serial No. 70,827
21 Claims. (Cl. 16—128.1)



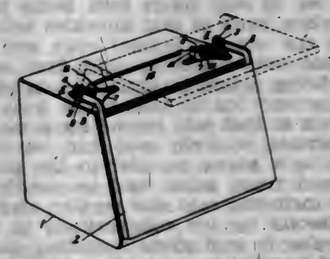
1. In a device such as described, a bracket applicable to the inner face of a splash panel and having upstanding side plates or cheeks, a bolt member received in the upper portion of said bracket between said cheeks, said bolt member comprising side plates joined together at the upper part by a bail-like part adapted to act as a bolt head and of less width than the body of the bolt member, and upper and lower links connecting the body of the bolt member to the bracket, said links when the bolt member is in its lowered position with respect to the bracket being approximately horizontally disposed, each of said links being pivoted to the bracket at a point between the bracket cheeks, the upper link straddling the body of the bracket and the lower link extending into the body of the bracket.

2,654,117

MEANS FOR CONTROLLING THE OPERATION OF DOORS OR THE LIKE

Wesley S. Pattison, Bethel, and Edward B. Hawthorne, Danbury, Conn., assignors to General Electric Company, a corporation of New York

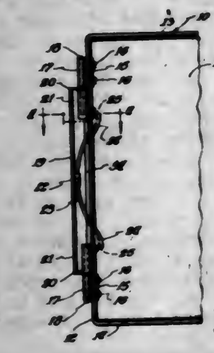
Application September 8, 1949, Serial No. 114,494
1 Claim. (Cl. 16—135)



Means for controlling the opening and closing of a door biased to one extreme of movement, comprising a gear pivotally mounted at a fixed

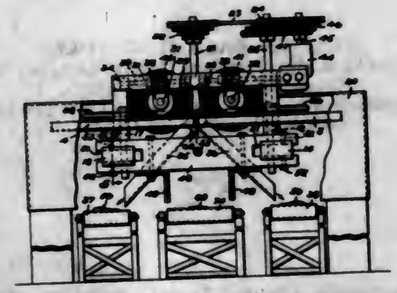
location relative to said door; an arm member extending radially from said gear; a second gear; means for pivotally securing said second gear for permanent meshing relationship with the first gear; means fixed to said second gear and extending between said gear and said door to move the door upon rotation of said second gear; and spring biasing means opposing the bias of the door, comprising a lever pivotally fixed relative to said arm member; spring means for urging said lever into rotation; and a link pivotally interconnecting said arm member and said lever whereby the door bias and the spring exert opposite rotational influences on said lever, the position of said link relative respectively to said first named gear pivot and to said lever changing during opening movement of the door from a condition wherein the rotational influence of the link on said gear is small and on said lever is large enough to rotate the lever to place the spring under maximum tension, to a condition wherein the rotational influence of the link on the lever is so small that the tension of said spring withstands the counter-rotative effort exerted by said link under the influence of the door bias.

2,654,118
SPRING HINGE
Michael H. Scott, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application May 5, 1950, Serial No. 160,348
2 Claims. (Cl. 16—145)



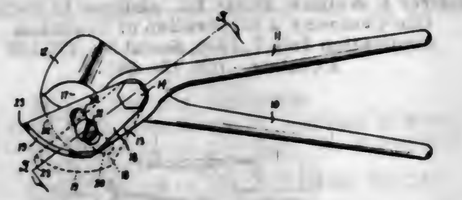
1. In a cabinet structure, the combination comprising, a door having a front panel and an integrally formed side portion at a right angle thereto, a pair of spaced apart hinge leaves secured to the outer surface of said side portion between the side thereof cooperating with said front panel and the outer marginal edge thereof, said leaves having pintles projecting therefrom, a hinge butt having an L-shaped cross section, the first leg of said hinge butt being provided with knuckles, each of said knuckles being positioned at the outer marginal edge and at the longitudinal extremities of said first leg, said knuckles being rotatably journaled on said pintles, the second leg of said hinge butt having slots therein so that said second leg is mountable to said cabinet, whereby said first leg lies substantially in a plane parallel to the plane including said front panel and perpendicular to the plane including said side portion and whereby said second leg lies substantially in a plane perpendicular to said plane including said front panel and parallel to said plane including said side portion when said door is in the closed position, and whereby said first leg lies substantially in a plane perpendicular to the plane including said front panel and parallel to the plane including said side portion and whereby said second leg lies substantially in a plane parallel to said plane including said front panel and perpendicular to said plane including said side portion when said door is in the open position, said second leg further having a bracket formed on the inner side thereof, spring means for holding said door in its fully opened and closed positions, said means including a spring rod having a semi-elliptical central section rotatably journaled in said bracket, said side portion further formed to have a pair of bumped out portions projecting from the inner surface thereof, said bumped out portions having holes therein and being positioned on the inner surface of said side portion at points rearwardly of said pintles with respect to said front panel, the ends of said spring rod being slidably and rotatably positioned within said bumped out portions and through said holes, said bracket being positioned at a point on said second leg so that a portion of said spring rod abuts the outer marginal edge of said first leg and so that the portion of said spring rod disposed within said bracket and the ends of said spring lie in a plane positioned forwardly of said pintles with respect to said front panel when said door is in the open position, whereby said spring rod is tensioned in all positions of said door, and whereby the tension of said spring rod maintains the door in the open and closed positions.

2,654,119
FISH CUTTING MACHINE
Joseph J. Duggan, Wellaston, Mass.
Application June 5, 1951, Serial No. 229,993
1 Claim. (Cl. 17—4)



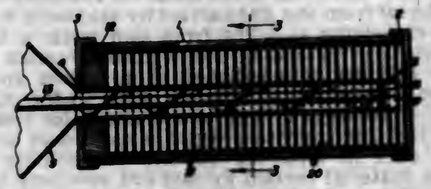
A machine for cutting the two fillet-forming sides of a fish from the backbone portion comprising two cutting elements arranged parallel to each other and spaced apart a sufficient distance to permit the backbone portion of a fish to pass therebetween as said cutting elements cut the two fillet-forming sides from the fish, two oppositely disposed downwardly diverging chutes, means supporting said chutes below the cutting elements with the upper end of one chute directly beneath one cutting element and the upper end of the other chute directly beneath the other cutting element and with the upper ends of the chutes spaced apart a distance approximately corresponding to the distance between the cutting elements, and with the space between the chutes located directly beneath and in line with the space between the cutting elements, whereby the fillet cut from a fish by one cutting element is directed into one chute and the fillet cut from the fish by the other cutting element is directed into the other chute, and the backbone portion of the fish passes through the space between the cutting elements and gravitates through the space between the upper ends of the chutes, means to receive the fillets as they are delivered from the chutes and other means to receive the backbone portions of the fish after they gravitate through the spaces between the upper ends of the chutes.

2,654,120
FISH SKINNING TOOL
Gordon A. Tift, Marshalltown, Iowa
Application July 7, 1951, Serial No. 235,583
1 Claim. (Cl. 17—7)



In a fish skinning tool, a pincer-like tool having a pair of handle members with integral jaw portions that are movable on a pivot, a cutting blade flush with the side of one jaw portion and pivotally secured at one end to the pivot point of said tool, said blade having a cutting edge extending forwardly of said adjacent jaw portion, whereby when the said jaw portions are clamped on a portion of the skin of a fish, the forward end of the tool will be thus held and by raising the handle members the blade will penetrate and cut into the fish being processed, the outer edge of said jaw portion adjacent said cutting blade also serving as a stop means to limit the depth of penetration of said blade in a fish carcass, and means for adjusting the depth of cut of said blade.

2,654,121
APPARATUS FOR MOLDING HAMBURGER STEAK PATTIES AND THE LIKE
Harry J. Nelson, Pocatello, Idaho
Application June 6, 1950, Serial No. 166,331
6 Claims. (Cl. 17—32)



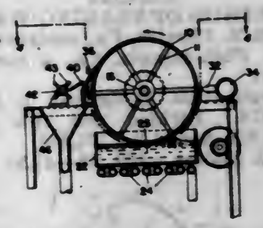
1. In combination, a food grinder having a discharge end and a rotary grinder shaft terminating at said end, a food feed device at said discharge end comprising a tube having a rear mouth end and a front outlet end, means attaching the mouth end of the tube to said discharge end to receive food from said discharge end, screw feed means attached to said grinder shaft for operation thereby and extended into said tube to force the food therethrough and out of said outlet end under compression, a hollow cylindrical casing surrounding said tube concentrically thereof, an annular closure for one end of the casing slidable on the tube and supporting said casing for endwise movement along said tube, a solid closure for the other end of the casing spaced outwardly of the outlet end of the tube so that said tube will feed food under compression into said casing to move the same outwardly of said outlet end of the tube, and a series of annular partition members fitted in said casing and around said tube in laterally spaced relation and in successive arrangement from said last-named end of the casing and forming a series of correspondingly arranged and successive pockets in said casing, said members being slidable along said tube and off the outlet end of the tube under movement of the casing to position said pockets successively at the outlet end of the tube for filling under compression successively to mold the food into patties in the casing.

2,654,122
METHOD OF REMOVING THE SKIN FROM HOGS
Ralph E. Derby, Salem, Mass.
Application July 24, 1951, Serial No. 238,296
6 Claims. (Cl. 17—45)



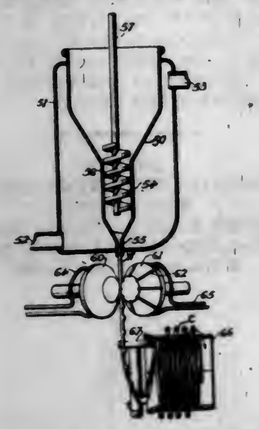
1. That method of removing the skin from the carcass of a hog which comprises as steps severing the bond which unites the skin to the carcass by applying heat adjacent to the inner surface of the skin sufficient to melt the fat layer which adheres to the skin but insufficient to cause browning of the fatty tissue.

2,654,123
WAX FLAKER
Chester L. Hall, Chester, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application September 7, 1950, Serial No. 183,574
3 Claims. (Cl. 18—1)



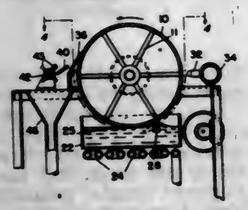
1. A wax flaker comprising, in combination, a wax trough constructed to keep wax in a liquid condition, a rotatable chilled drum adapted to rotate in contact with the liquid wax in said trough, an agitator in the trough adjacent the contact surface of the drum and the liquid wax, a plurality of spaced nozzles positioned to spray a coating of liquid wax on said drum as it rotates from the trough, a doctor bar adjusted to remove the chilled wax coating from said drum, a toothed breaker bar adjoining said doctor bar, and a rotatable shredder in cooperative engagement with said toothed breaker bar to break the disengaged wax coating into small flakes.

2,654,124
METHOD AND APPARATUS FOR MANUFACTURE OF PLASTIC EDGE TYPE FILTERS
Ralph R. Layte, Westfield, N. J., assignor to Purolator Products, Inc., Rahway, N. J., a corporation of Delaware
Application July 20, 1951, Serial No. 237,724
10 Claims. (Cl. 18—5)



7. Apparatus for making a plastic filter unit of the character described comprising a container for plastic material, heating means for said container, an extruding nozzle for said container, extruding means for forcing plastic material from said nozzle in the form of a wire, a pair of rollers adjacent said nozzle positioned to receive the wire upon its extrusion and to roll it therebetween, one of said rollers having recesses in its surface extending radially of its axis of rotation to contact said wire when the latter is rolled between said rollers, heating means for said rollers, the rolling of said wire transforming it into a thin flat ribbon having transversely extending ribs on a wide face of the ribbon, a sleeve, means for receiving the ribbon delivered from between the said pair of rollers and for guiding the ribbon into said sleeve to form a helix therein having a multiplicity of turns, and means for heating said sleeve.

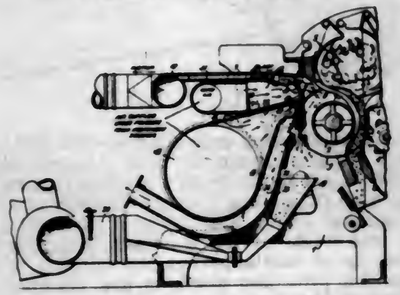
2,654,125
METHOD OF FLAKING WAX
Chester L. Hall, Chester, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Original application September 7, 1950, Serial No. 183,574. Divided and this application March 5, 1952, Serial No. 274,877
5 Claims. (Cl. 18—47.5)



2. A method of preparing wax for use in an extruding process comprising the steps of depositing an initial coating of wax on a chilled surface from a mass of molten wax, agitating said coating while solidifying to form a rough coating on said chilled surface, spraying a thin film of liquid wax on said rough coating, solidifying said thin film to form, with said rough coating, a single wax sheet which is readily removable from said chilled surface, and removing the wax sheet from the chilled surface.

3. The process defined in claim 2 further characterized by breaking the wax sheet into flakes of substantially equal size as it is removed from the chilled surface.

2,654,126
PNEUMATIC DUAL MOTING AND LINT CLEANING AIR BLAST GIN
Jeffrey J. Wallace, Amite, La., assignor to Gullett Gin Company, a corporation of Louisiana
Application July 7, 1950, Serial No. 172,543
7 Claims. (Cl. 19—58)



3. In a cotton gin, ginning ribs and a saw cylinder having spaced blades operating between said ribs, a mote duct having an enlarged mouth extending lengthwise across said saw cylinder overlying an arcuate portion of said saw cylinder adjacent the point of emergence of the saw blades from between said ribs forming a moting chamber into which relatively large mote material is centrifugally thrown, a nozzle opening in said duct directed away from said saws and directing a mote-withdrawing air blast into said duct, a second nozzle below said first mentioned nozzle extending lengthwise across the saw cylinder having vents registering with the spaces between the saw blades shaped to direct air blasts chordally of said saws against the sides thereof in circumferential zones of the teeth for sweeping mote material from the lint carried by said teeth without dislodging said lint from said teeth, a third nozzle also extending longitudinally across the saw cylinder so positioned as to direct an air blast tangentially of the saw teeth in the direction of rotation of said saw cylinder for removing the lint from said teeth, a mote duct and a lint duct in receiving position respectively for mote material carried by said lint sweeping blast and lint carried by said lint removing blast, means for maintaining vacuum in said last mentioned mote duct, and means for supplying air under pressure to said nozzles.

2,654,127
HARDWARE FOR SWINGING SLIDING STORM SASHES
Harold E. Graves, Jr., Akron, Ohio, assignor to Brown-Graves Company, Akron, Ohio, a corporation of Ohio
Original application May 12, 1950, Serial No. 161,526. Divided and this application October 17, 1951, Serial No. 251,765
2 Claims. (Cl. 20—42)

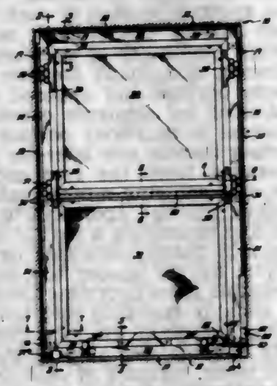
1. A casement window having hinge pins adapted for sliding motion along upper and lower

channels in a window frame, a link pivoted intermediate said window and having a pin adapted to be anchored in said window frame, said link being curved away from its point of pivoting on



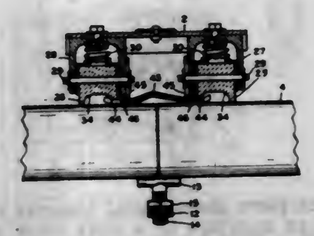
said window and having a longitudinal groove on its concave side and a longitudinal rib on its convex side tending to maintain the link in its curved form.

2,654,128
STORM WINDOW
George W. Day, Glen Ellyn, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application March 24, 1947, Serial No. 736,723
5 Claims. (Cl. 20—55)



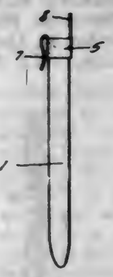
1. In a sash structure for mounting in a window aperture of a building aperture, a metallic panel-receiving frame comprising top and bottom bars received between side bars, each of said bars being channel members having inner and outer webs and a connecting web adapted to seat against an adjacent edge of a panel, said connecting web having a flange extending into the panel-receiving opening for engagement with a side of a panel; top, bottom and side sealing members mounting said bars, each of said top and side sealing members being of L-section and said bottom sealing member being of U-section, each sealing member having one of its flanges seated against the outer web of the bar mounted thereon, each of said frame bars being movable relative to each other bodily sidewise and at an angle in the plane of said frame whereby said bars may be adjusted to position the connecting webs thereof in engagement with the edges of a panel, said top and bottom bars being the same length as the panel width and having their opposite ends abutting the connecting webs of said side bars and acting as templates to maintain said side bars in spaced relation corresponding substantially to the panel width, said flanges of said side bars at the ends of said bars overlapping the ends of said top and bottom sealing members and bars, and means for securing each of said bars to its mounting sealing member in fixed relation thereto.

2,654,129
METHOD OF AND APPARATUS FOR WELDING
Edward B. Neff, Shaker Heights, Ohio, assignor to Erico Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application May 7, 1949, Serial No. 92,967
10 Claims. (Cl. 22—116)



10. In cast welding apparatus, a mold having a mold cavity in one face adapted to be presented to a surface of one member to be welded, such cavity also being adapted to receive a second member to be welded with a portion of such second member extending laterally therefrom in contact with such surface, a supporting frame for said mold, pressure means also carried by said frame adapted to engage such second member to press the same forcibly against such first member in the region closely adjacent said mold, clamping means operative to force said pressure means against such second member, and means mounting said mold on said frame for movement relative to said pressure means to permit said mold to bear against such second member less forcibly than said pressure means.

2,654,130
POCKET HOLSTER FOR FOUNTAIN PENS AND THE LIKE
Andrew T. Lundberg, Minneapolis, Minn.
Application December 14, 1951, Serial No. 261,680
1 Claim. (Cl. 24—10)



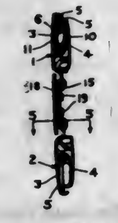
In a device of the class described, an elongated tubular sack formed from tough flexible waterproof material, said sack being of a size to fit into the pocket of a wearer and to receive therein a pen, pencil, or the like, and a generally ovate ferrule encompassing the open upper end of said sack, said ferrule being less flexible than said sack and having an integrally formed depending clip adapted to be received over the free edge of said pocket and an integrally formed upwardly projecting shield opposite said clip, said shield being adapted to lie flush against the body of the wearer and facilitate reception of said pens, pencils, or the like into said sack.

2,654,131
FASTENING DEVICE
Ougljesa Jules Poupitch, Itasca, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Original application June 11, 1945, Serial No. 598,820. Divided and this application December 30, 1950, Serial No. 203,683
3 Claims. (Cl. 24—73)



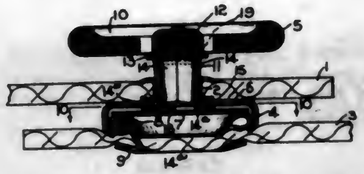
1. A one-piece sheet metal fastener for insertion into an aperture in a work piece and comprising a sheet metal body portion, means providing a neck projecting from said body portion substantially in the direction of the axis of insertion of the fastener into a work aperture, said neck including a pair of spaced substantially rigid neck portions extending substantially normal to said body portion along opposed outer margins thereof, a pair of tongues having the inner and outer transverse edges thereof free of said body portion and projecting from each neck portion across the adjacent surface of the body portion and with the free extremities of the tongues of one pair projecting toward the free extremities of the other pair, the tongues of each pair being normally spaced and transversely yieldable, locking projections extending laterally outwardly from the surface of each tongue in the vicinity of the free end thereof and adapted to be snapped into fastening association within a complementary aperture of a work piece, said projections being spaced from the intermediate part of the body portion a sufficient distance to permit a work piece to be secured there-between as an incident to telescopic association of the neck with a work aperture.

2,654,132
GARMENT SUPPORT
Sterling E. Norcross, Bloomfield, N. J.
Application November 30, 1949, Serial No. 130,271
1 Claim. (Cl. 24—81)



In a garment, a pair of clasps each including a pair of pivotally connected jaws and a yoke, an elastic jointless sleeve connecting said yokes, and a protective metal guard having spaced laterally extending tongues formed on its edges and bent over the back of the guard in spaced relation thereto, said tongues engaging over the ends of said elastic sleeve for wholly supporting the guard on the elastic sleeve, said protective metal guard having abutment lips on its ends adapted to be engaged by the clasp when opening the jaws of the clasp to facilitate opening movement of the jaws.

2,654,133
REMOVABLE BUTTON DEVICE AND INSTALLATION THEREOF
Harold S. van Buren, Jr., Cambridge, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application September 2, 1948, Serial No. 47,432
13 Claims. (Cl. 24—109)



4. A removable button installation for clothing and like closures, said installation comprising in combination a button member, a button mounting shank member for extending through an aperture of a portion of an article of clothing or the like on one side of a closure in such article, means for securing said button member to said shank member, and a button mounting device for mounting on another portion of such an article on the other side of the closure, said button member having a plurality of apertures extending therethrough, said shank member including a central body portion and opposed rigid substantially parallel leg elements extending substantially normal to said body portion from opposite side edges thereof and laterally projecting tongues extending from the free ends of said leg elements, said securing means including elements extending through apertures of said button members and embracing a part of said shank member, and said button mounting device being a hollow device having spaced top and bottom relatively yieldable faces providing inner opposed surfaces for slidably engaging said tongues, said top face being apertured for receiving the end of said shank member and said tongues in one position, said inner surfaces of said device presenting therebetween tongue-engaging bumps and stops to prevent accidental displacement when said button is in attached position.

2,654,134
CLAMP FOR HOLDING ARTICLES ON CLOTHESLINES
Edward E. Sauerman, Miami, Fla.
Application September 24, 1952, Serial No. 311,197
1 Claim. (Cl. 24—137)



A clamp for holding an article on a clothes line comprising a body having an elongated relatively deep clothes line receiving groove extending therethrough, an arm carried by the body and extending outwardly therefrom in spaced relation to the longitudinal axis of the groove, a clothes line engaging clamp finger carried by the arm remote from the body, a fulcrum carried by the body and extending across the groove adjacent the end thereof adjacent the arm, said fulcrum being spaced from the bottom of the groove and being adapted to engage a clothes line lying in the groove, said body having an opening extending therethrough on the side of the fulcrum remote from the arm, said opening lying substantially perpendicular to the bottom of the groove, a plug closing the end of the opening remote from the groove, and a spring seated in the opening and engaging the plug, said spring being adapted to engage a clothes line and rock the body about the fulcrum to yieldingly advance the finger toward the clothes line extending through the groove.

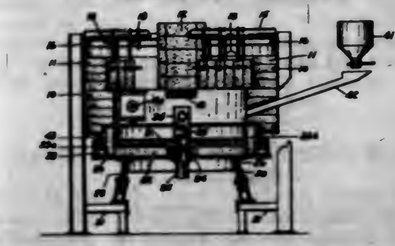
2,654,135
RELEASABLE CONNECTION DEVICE
Earle D. Grizzard and Frank R. Collar, Los Angeles, and Jack C. Mitchell, La Crescenta, Calif., assignors to Adams Rite Manufacturing Company, Glendale, Calif., a corporation of California
Application June 25, 1951, Serial No. 233,194
10 Claims. (Cl. 24—201)



1. In a connector for engaging a shouldered member of the character described, the combination of: a tubular body having an end opening and side openings, engagement members having shouldered portions movable toward each other into engagement with said shouldered member and movable away from each other to disengage said shouldered member, said engagement members having lever portions extending into said tubular body through said end opening, pin means pivotally supporting said lever portions in said tubular body, said lever portions having parts which project through said side openings when shouldered portions are moved toward each other, a sleeve supported on said tubular body so as to be movable into a position projecting from the end of said tubular body so that a portion of said sleeve will surround said shouldered portions and hold them in engagement with said shouldered member, cam means on said sleeve engaging said projecting parts of said lever portions when said sleeve is moved into retracted position on said tubular body, to force said projecting parts inwardly and swing said lever portions so as to move said shouldered portions of said engagement members apart, and locking means for holding said sleeve in said position projecting from said tubular body.

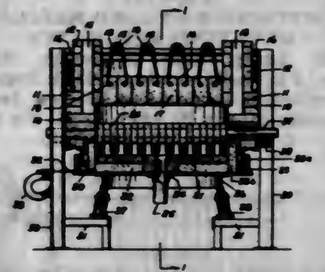
2,654,136
METHOD OF MAKING LIGHTWEIGHT AGGREGATE
Charles G. Harford, Wollaston, Ekkehard L. Kreidl, Boston, and Joseph L. Utter, Stoughton, Mass., assignors to Arthur D. Little, Inc., Cambridge, Mass., a corporation of Massachusetts
Application February 23, 1950, Serial No. 145,694
12 Claims. (Cl. 25—156)

1. A method of making lightweight aggregate which comprises the steps of mixing a mass of divided siliceous material selected from the group consisting of clays, shales, and slates, with at least an equal volume of finely divided refractory material non-reactive to said siliceous material, heating the resulting mixture to a sufficient temperature and for a sufficient time to cause the siliceous material to bloat without substantial sticking of the refractory material thereto, the



said inert refractory material filling subtantially all the voids, thus blanketing and surrounding said siliceous material during the entire step of said heating, cooling said mixture and separating said blanketing material from the bloated siliceous material, said refractory material being further characterized by softening at a higher temperature than said siliceous material.

2,654,137
PROCESS OF MAKING LIGHTWEIGHT AGGREGATE
Harry A. Buron, Cambridge, Mass., assignor to Arthur D. Little, Inc., Cambridge, Mass., a corporation of Massachusetts
Application February 23, 1950, Serial No. 145,736
5 Claims. (Cl. 25—158)



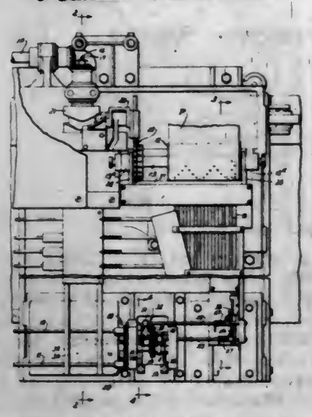
1. A method of making lightweight aggregate which comprises the steps of mixing a mass of divided siliceous material selected from the group consisting of clays, shales, and slates, with at least an equal volume of finely divided refractory material non-reactive to said siliceous material, heating the resulting mixture to a sufficient temperature and for a sufficient time to cause the siliceous material to bloat without substantial sticking of the refractory material thereto, the said inert refractory material filling substantially all the voids, thus blanketing and surrounding said siliceous material during the entire step of said heating, stirring said mixture during said heating step, and thereafter cooling said mixture and separating said blanketing material from the bloated siliceous material, said refractory material being further characterized by softening at a higher temperature than said siliceous material and by having a bulk density less than the lowest bulk density possessed by said siliceous material at any time during said heating step, whereby said refractory material provides a blanket over said siliceous material throughout the stirring step.

2,654,138

PATTERN CONTROLLED DRIVE MECHANISM FOR MACHINES FOR OPERATING UPON WARPS

Russell P. Drake, Caledonia, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois

Application March 20, 1951, Serial No. 216,602
9 Claims. (Cl. 28—44)



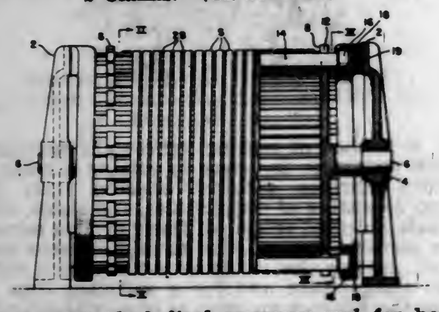
7. In a machine for operating upon warps, the combination of a plurality of members to be actuated selectively, a plurality of pattern controlled selectively operable feeler elements, drive means for each of said members comprising a normally disengaged single revolution clutch, and means controlled by said feeler elements for engaging the clutches selectively.

2,654,139

CONTINUOUS STRAND HELICAL CONVEYING APPARATUS

Edwin T. Lorig, Ross Township, Allegheny County, Pa., assignor to United States Steel Corporation, a corporation of New Jersey

Application March 10, 1949, Serial No. 80,673
2 Claims. (Cl. 28—71.6)



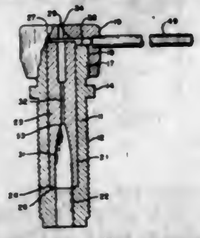
1. A rotatable helical conveyor reel for handling strip comprising a pair of spaced apart housings, a side plate rotatably supported by each housing, a plurality of spaced ribs having their opposite ends fastened to the periphery of the side plates so as to provide spaces therebetween, said plates having openings therein aligned with said spaces, a non-rotatable spline mounted in each space with its ends extending through the aligned openings in the side plates, each of said housings having a helically formed cam groove therein facing the opposite housing, each of said cam grooves having a side portion thereof parallel to the axis of the reel and a beveled bottom portion, a roller mounted on each end of each spline with its axis parallel to the reel axis and extending into the adjacent cam groove, each of said rollers having a cylindrical portion adapted to engage the said side portion of the cam groove and a frusto-conical portion adapted to engage said beveled bottom portion, the said side portion of each said cam grooves having a radially depressed portion whereby the outer surface of each of the movable splines is depressed below the outer surface of said ribs, the depressed portion of each of said cam grooves having the beveled bottom thereof arranged at an angle with a plane perpendicular to the axis of the reel to move the splines axially in one direction, and the major portion of each of said cam grooves having the beveled bottom thereof arranged at an angle with a plane perpendicular to the axis of the reel to move the splines axially in one direction, and the major portion of each of said cam grooves having the beveled bottom thereof arranged at an oppositely extending helix to move the splines axially an equal amount per increment of reel revolution in the opposite direction.

2,654,140

BULLET FORMING DIE

Earl Gibbs, Denver, Colo.

Application August 15, 1949, Serial No. 110,257
5 Claims. (Cl. 29—1.23)



1. A bullet forming die, comprising an elongated die block adapted to be held in an upright position and having an opening extending longitudinally therethrough, said opening at its lower end providing a bullet body forming die cavity and the rest of said opening being a smooth cylindrical bore of larger diameter, a removable die piece slidably fitted in the cylindrical bore with its upper end beyond the end of the die block and providing a bullet head forming die cavity as a concentric extension of the lower die cavity, there being an intermediate passage of small diameter extending upwardly from the end of said upper die cavity and terminating in a bore of greater diameter at the upper end of said die piece, and a die cap at the upper end of the die block mounted for movement into pressing engagement with the extended end of said die piece so as to hold said die cavities in alined relation and having an opening to atmosphere in register with the bore of said die piece, whereby a slug positioned in the lower die cavity may be forced into engagement with the walls of the upper die cavity to form a bullet of a size and shape corresponding to the size and shape of said cavities.

2,654,141

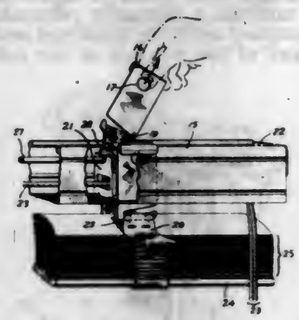
METHOD OF ASSEMBLING VENETIAN BLINDS

Harry Nelson, New York, N. Y., assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y., a corporation of New York

Application August 30, 1948, Serial No. 46,738
3 Claims. (Cl. 29—24.5)

1. The method of assembling an inclosed head Venetian blind, said blind having a hollow head bar which, in the assembled blind, contains the operating mechanism for the blind including the tilt bar, the bottom wall of the head bar having

slots therein for the passage of ladder tapes therethrough and holes for the passage of the lift cords, the ladder-tape-receiving slots being disposed in opposed pairs, the holes in the bar receiving the lift cords lying between the slots of each pair and the tilt bar being above and generally centered with respect to the ladder-tape-receiving slots, said method comprising: suspending each ladder tape from a pair of temporary supports passed downwardly one through each ladder-tape-receiving slot and supported by the head bar, then inserting the slats in the lad-



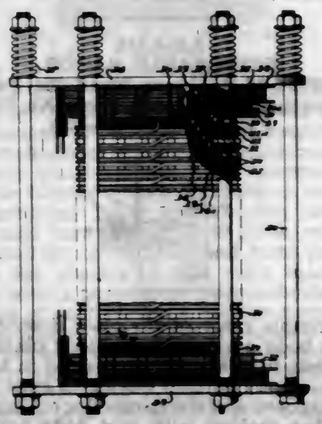
der tapes, then reeving the lift cords through the holes in the head bar for such cords and through the slats of the blind, then raising the blind by means of the lift cords to support the slats by the lift cords and to remove the load from the ladder tapes, then inserting the tilt bar within the head bar, then raising each of the temporary supports to draw the upper ends of the ladder tapes upwardly through the slots in the head bar and into the space within the head bar and attaching said ladder tape upper ends to the tilt bar.

2,654,142

METHOD OF MAKING AND STAYING ELECTRICAL TRANSFORMER WINDINGS

Samuel Herelick, Pittsburgh, Pa., assignor, by mesne assignments, to McGraw Electric Company, a corporation of Delaware

Application July 23, 1947, Serial No. 763,082
3 Claims. (Cl. 29—155.56)



1. In combination, in a method of making and staying an electrical winding, the steps comprising, assembling a plurality of coil turns in side-by-side relation to form a plurality of axially disposed layers of such turns, coating a plurality of relatively rigid insulating spacers on opposite surfaces thereof with a heat-reactive bonding compound, fastening said spacers in radially and circumferentially spaced relation to said coil turns and between adjacent layers thereof as successive layers are assembled with said opposite surfaces against said coil turns, pressing said coil turns and spacers together in an axial direction, heating said compound to bond said spacers to said coil turns, and maintaining said pressure during said heating, whereby said layers may be left unbonded in at least the circumferential lengths thereof between spacers.

2,654,143

METHOD OF MAKING WELDED BLADE STRUCTURES

Elmer D. Heesch, West Allis, and Robert G. Matters, Milwaukee, Wis., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application August 24, 1949, Serial No. 112,042
4 Claims. (Cl. 29—156.8)



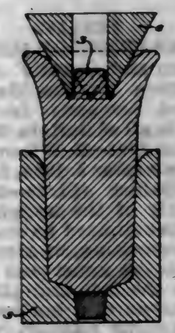
1. The method of making a bladed element for turbines and the like comprising the steps of placing a circumferential row of blades around a rotor disk with the base portions of said blades and the rim portion of said disk cooperating to define an annular weld receivable contour, providing liquid retaining means in cooperable relation to said blades to enclose an area to receive and retain a slurry in engagement with said blades except in a zone about said weld receivable contour, applying a slurry of solidifiable material in said enclosed area cooperable with said blades upon solidification of said material to seize and hold said blades in position pending the application and freezing of weld metal to said weld preparation contour, applying weld metal to said weld receivable contour after said material solidifies, and then removing said material after said weld metal freezes.

2,654,144

METHOD OF FORMING BIG END UP INGOTS

George A. Dernin, deceased, late of Youngstown, Ohio, by Florence L. T. Dernin, executrix, Warren, Ohio, assignor to George A. Dernin, Jr., Warren, Ohio

Application February 28, 1948, Serial No. 11,833
1 Claim. (Cl. 29—160.4)



The method of forming an ingot which comprises casting without a hot top, a big end up

ingot of fully deoxidized steel, said ingot having upper and lower portions which taper downwardly, the taper of said upper portion being much greater than the taper of said lower portion, the length of said upper portion being between 30% and 40% of the body length of the ingot, thereby forming an ingot having at its top a central core including unsound metal surrounded by a zone of sound metal, and displacing said zone of sound metal axially of the ingot to isolate the core including the unsound metal.

2,654,145
OXIDATION-RESISTANT HARD COMPOSITION
John W. Graham, Ligonier, Pa., assignor to Kennametal Inc., Latrobe, Pa., a corporation of Pennsylvania
No Drawing. Application June 28, 1951, Serial No. 234,165
14 Claims. (Cl. 29—182.8)

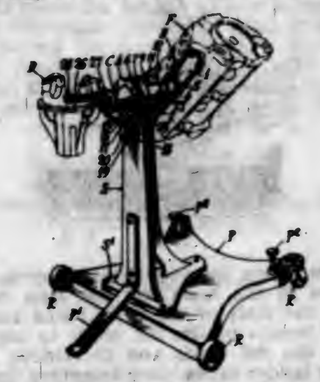
1. A sintered hard composition of matter characterized by such high resistance to oxidation at high temperatures that the total increase in thickness on one face of a specimen after exposure at a temperature of 1800° F. for a period of 72 hours does not exceed .005 inch consisting essentially of titanium carbide and a binder consisting of silicon and at least one metal from the group consisting of iron, cobalt and nickel, the silicon constituting at least 1.5% of the composition and from 6.6% to 10% of the binder.

2,654,146
GOLD BASE ALLOY
Victor G. Mooradian, East Orange, N. J., assignor to The H. A. Wilson Company, Newark, N. J., a corporation of New Jersey
No Drawing. Application April 2, 1949, Serial No. 85,261
12 Claims. (Cl. 29—199)

1. A composite metal product comprising a sheet of base metal having an annealing temperature upwards of 1200° F. to which is bonded a surface layer a few thousandths of an inch in thickness of an alloy consisting essentially of 1% to 55% copper, 1% to 15% silver, 1% to 15% zinc, 0.01% to 1% silicon, 0.1% to 3% of a metal selected from the group consisting of iron, chromium, and zirconium, and the balance gold, whereby said composite metal may be alternately heated to above the annealing temperature of its base metal component and subjected to severe mechanical working at room temperature without developing significant orange peel roughness at the surface of the gold alloy layer.

2,654,147
ADAPTER FEATURES OF MOTOR STANDS
Frank C. Wilson and Grant F. Silliman, Arcade, N. Y., assignors to The Manufacturers and Traders Trust Company, Jack A. Ahern and David D. Nash, all of Buffalo, N. Y., as executors of the estate of Kirke R. Wilson
Application September 2, 1949, Serial No. 113,818
3 Claims. (Cl. 29—239)

1. An assembly of the upright standard of a motor stand, the standard having front, rear and lateral sides, comprising, in combination, a horizontal sleeve at the upper end of the standard with its axis in the fore and aft central vertical plane of the standard, a horizontal shank journalled for adjustable rotation in the sleeve, the shank being centrally located between the lateral sides of the standard, a positioning collar fixed to one end portion of the shank and abutting an end face of the sleeve, the other end portion of the shank projecting beyond the standard, a disc-shaped index plate keyed to the projecting end portion of the shank for removal from it and held in abutting relation to the adjacent face of the standard, a horizontal sleeve provided as a part of an adapter and rotatably mounted in surrounding and coaxial relation to the projecting end portion of the shank, the sleeve being formed with a circumscribing index flange which abuts and confines the index plate, the index plate and the index flange each being formed with spaced peripheral notches, a manually releasable detent movably mounted upon the standard and engageable with any of the notches of the index plate,



a second manually releasable detent movably mounted upon the standard and engageable with any of the notches of the index flange, each detent being releasable independently of the other whereby to enable the adapter and the shank to be angularly adjusted independently of each other and releasable means connected to the projecting end portion of the shank and bearing with functional clamping effect upon the end face of the sleeve, the releasable means cooperating in such effect with the collar on the shank, thereby to hold the shank, the sleeve and the index plate in assembled relation relatively to one another and to the standard and to permit the independent adjustment of the adapter and the shank about the common axis of the shank and the sleeve.

2,654,148
DISPOSABLE RAZOR
Ward M. Robinson, Meadville, Pa.
Application July 10, 1951, Serial No. 235,939
1 Claim. (Cl. 30—32)



A disposable razor of the class described comprising a body portion of a molded plastic material, a blade permanently embedded in the material of said body portion having at least one edge thereof exposed and sharpened for cutting, a handle member molded with said body portion and detachably secured thereto, and co-operable interengaging means carried by said handle and said body portion for connecting the same to said body portion in assembled relation ready for use after it is detached from said body portion.

2,654,149
SAFETY RAZOR
Bill Bowen, New York, N. Y., and Charles L. Metzler, Palisades Park, N. J., assignors to The Gillette Company, a corporation of Delaware
Application September 15, 1949, Serial No. 115,932
13 Claims. (Cl. 30—64)
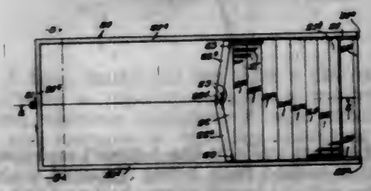


3. A safety razor comprising cooperating blade-engaging members, one having two side portions separated by a U-shaped resilient rib with an opening therein, a handle, a T-shaped member extending from the handle into said blade-engaging member, filling the opening in said rib and provided with an internal chamber, and a rocking disk mounted in said chamber and having connection with the second of said blade-engaging members.

2,654,150
SAFETY RAZOR
Stener Henschien, Buenos Aires, Argentina
Application March 15, 1950, Serial No. 149,663
In Argentina November 18, 1949
1 Claim. (Cl. 30—64)



A safety razor which comprises a blade-holding head for holding a razor blade, and a tubular handle formed to define a pair of oppositely disposed longitudinal slots and connected to said head, said blade-holding head consisting of a base plate having a face for holding said blade, and a securing plate for securing said blade against said face of said base plate, said plates being parallelly movable to and from each other to allow the placing of said razor blade therebetween with a movement perpendicular to the movement of said plates, a tubular member slidably mounted in said tubular handle, having a pair of lateral arms projecting therefrom in opposite direction through said longitudinal slots, said base plate being located between said arms, said securing plate being fixed to the ends of said arms, an adjustable plug screwed in the end of said tubular member remote from said base plate, a compression coil spring mounted within said tubular member and interposed between said base plate and said plug for adjusting the tension of said spring, said securing plate having retention stem means for retaining a perforated blade when said plates are pressed one against the other, a push-button for pushing said tubular member against the action of said spring mounted at the free end of said handle and coupled to said plug to rotate the same, locking means for locking said push button in operative position against said spring, guides in said securing plate for positioning said razor blade between said plates, and retaining shoulder means adapted to hold said blade correctly positioned between said plates.

2,654,151
CHEESE MAKING APPARATUS
Raymond Miollis, Maywood, Ill., assignor to The Borden Company, New York, N. Y., a corporation of New Jersey
Application March 19, 1949, Serial No. 82,459
10 Claims. (Cl. 31—47)



1. Cheese making apparatus of the character described, comprising: a vat adapted to contain curds; a movable platform in said vat, having a substantially horizontal surface spaced above the bottom of the vat; and a scraper member in said vat, having one edge abutting said platform at one edge thereof and having a surface extending from the level of said platform surface to adjacent the bottom of said vat, said platform and scraper member being operatively associated with said vat for longitudinal movement along the bottom thereof, to cause the curds to slide up across the surface of said scraper member onto said platform.

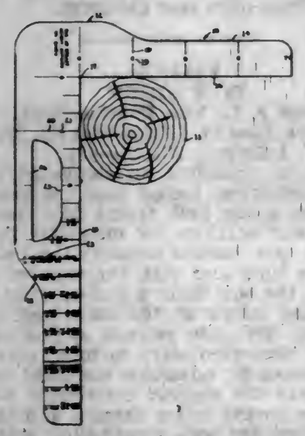
2,654,152
BOW SIGHT
Joseph A. Le Vire, Pontiac, Mich.
Application June 11, 1952, Serial No. 292,817
1 Claim. (Cl. 33—46)

A bow sight including an elongated support having a bowstring facing face, opposite end portions, and a bow limb facing face; means at one of the end portions for mounting the support upon a bow handle between the bowstring and the bow limb and with the support spaced wholly from the bow limb; a slide carried by the support; fixed means at the other end portion for retaining the slide against sliding off said support; an elongated sight member carried by the slide; means for adjusting the sight member transversely of the support comprising a rotatable member having screw threads and the wall of a screw-threaded bore of said slide, said screw threads cooperating with the screw threads of said bore wall, and said sight member having a sight projection at one of its free ends, the length and diameter of said bore being such that said sight projection may be accommodated in said bore when the sight member is rotated in one direction, whereby said sight projection may be protected by the bore wall when the sight member is not in use; and holding means carried by

the slide and support to maintain the slide in selected adjusted positions longitudinally of the support, including two spaced apart spring biased balls carried by said slide and disposed transversely of the slide, and the wall portions of two spaced-apart rows of a plurality of closely spaced-apart ball-accommodating sockets having their socket walls in the support and opening to the first-named face, being disposed with one row in the path of travel of one ball and the other row disposed in the path of travel of the other ball when the slide is slid longitudinally of the support, the sockets of one row being staggered with respect to the sockets of the other row.

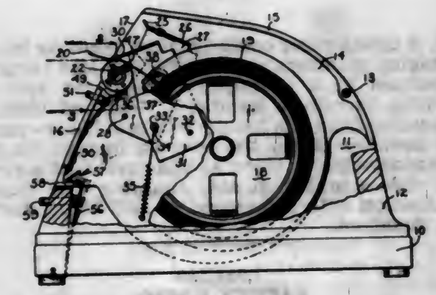


2,654,153
DEVICE FOR ESTIMATING THE BOARD FOOT CONTENTS OF STANDING TREES
Emery C. Oyler, Chambersburg, Pa.
Application November 3, 1950, Serial No. 193,886
1 Claim. (Cl. 33—112)



A device for estimating the board foot contents of a standing tree comprising a rigid body including two legs at right angles to each other with both legs being of substantial length for engagement of both legs, at locations intermediate their ends, against tree trunks of substantial diameter, with said intermediate portions of the legs engaging the trunk at points spaced approximately 90 degrees apart about the circumference of the trunk, each leg being provided with indicia spaced longitudinally thereof and arranged to denote, at the tree-engaging portions of the legs, the breast height diameter of the measured trunk, the indicia of each leg matching those of the other leg to insure the accurate placement of the legs against said trunk, one of said legs having additional indicia associated with the first named indicia and denoting the board feet contents of the trunk in multiples of predetermined log lengths to be cut from the tree, said legs having widened inner end portions extending to the juncture of the legs and one of said inner end portions having a longitudinal slot formed therein defining a hand grip for holding the legs in a trunk-engaging position.

2,654,154
TAPE MEASURING DISPENSER
Alfred P. Krueger, Stratford, Conn., assignor to Derby Sealers, Incorporated, Derby, Conn., a corporation of Connecticut
Application January 19, 1949, Serial No. 71,574
6 Claims. (Cl. 33—131)



1. A machine for dispensing pressure-sensitive tape comprising a frame, means thereon for supporting a supply roll of tape, a roller rotatably mounted on the frame to which the tacky side of the tape adheres as it comes from the supply roll, said roller being rotated in a forward direction when the tape is drawn thereover, a severing member spaced from the roller on the non-tacky side of the tape and transversely of the path of the tape whereby the tape must be disengaged from the roller when moved against the severing member, means for rotating said roller in a reverse direction when the tape is disengaged therefrom by movement toward the severing member, a stop on the frame engageable with a part of the roller, a disk rotatably mounted coaxially with the roller and provided with a stop engageable with a part of the roller, means for adjusting one of said stops to variably limit movement of the roller, and a stripper member to strip the tape from the severing means and move it toward the roller.

2,654,155
APPARATUS FOR MEASURING SUSPENDED PIPE SECTIONS UPON DERRICKS
Mearl L. Barnhart, Vincent, Tex.
Application October 15, 1951, Serial No. 251,389
7 Claims. (Cl. 33—137)

1. Apparatus for measuring the length of a pipe tube comprising an elongated support, a tape, a tape position determining a member slidable and rotatable along said support, means to guide the rotational action of said member upon said support, spring means to urge the member to one position upon the support, and means to connect the tape to said member.

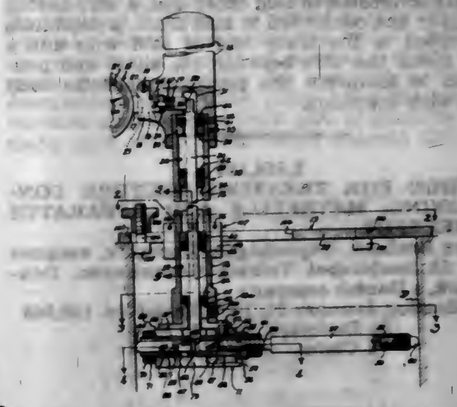


2,654,156
TIRE TREAD GAUGE
Ralph K. Boyer, Cleveland, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application February 29, 1952, Serial No. 274,169
3 Claims. (Cl. 33—172)



1. A tire tread gauge comprising an elongated casing, said casing having a foot at one end thereof of a breadth sufficient to span adjacent protuberances on a tire tread, said casing also having a transverse partition therein adjacent but spaced from the lower end of the casing, which partition is provided with a slot, a movable member partially within the casing and extending beyond the casing at one end thereof, the extending portion being provided with graduated markings, said movable member having a torsionally flexible extending portion which normally extends through the slot in the aforesaid partition in the assembled gauge, said extending portion having a head thereon of such size that it may be forced through the slot in the partition due to the torsional flexibility of said extending portion, in assembling the gauge, said head thereafter returning to its non-torsional position to engage the underside of the said partition to limit the outward movement of the said movable member.

2,654,157
BORE GAUGE
Andrew Eisele, Detroit, Mich.
Application July 12, 1949, Serial No. 104,345
6 Claims. (Cl. 33—178)



6. A bore gauge for use with a dial indicator, comprising a tubular support, a motion-transmitting member mounted in said tubular support and engageable with the operating mechanism of said dial indicator, a measuring head base mounted on said support and having a rectilinear guide portion thereon, a tubular guide member rigidly mounted on said base transverse to said support, said guide member having a bore therein and an external guide surface thereon, an equalizing pin carrier slide block reciprocably mounted on and guidedly engaging said external guide surface of said guide member, a resilient member yieldingly urging said pin carrier block outwardly of said base, a stationary measuring element mounted on said guide member, a movable measuring element reciprocably mounted in said bore of said guide member and operatively engaging said motion-transmitting member, and equalizing pins mounted on and movable unitarily with said pin carrier block on opposite sides of said movable measuring element.

2,654,158
STEEL SQUARE CALCULATOR
Donald Clyde Lutz, Hollywood, Calif., assignor of one-half to Carrie Gres Lutz, Hollywood, Calif.
Application May 2, 1950, Serial No. 159,456
5 Claims. (Cl. 33—215)



1. In a device of the class described, a body, an inner dial provided with indicia thereon secured

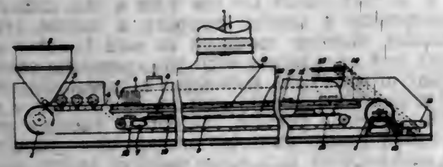
to said body, an outer rotary dial provided with a plurality of spaced pointers and apertures for coaction with the indicia on said inner dial, and means for causing rotation of said outer dial relative to said inner dial, said means comprising a shaft connected to said outer dial, a wire having its upper end connected to said shaft, a pendulum connected to the lower end of said wire and a tube about the wire between the shaft and pendulum to maintain the pendulum substantially rigid with the shaft.

2,654,159

METHOD FOR TREATING MIXTURE CONTAINING MATERIALS AND APPARATUS THEREFOR

Jørgen Brabæk, Copenhagen, Denmark, assignor to Aktieselskabet Volund, Copenhagen, Denmark, a Danish company

Application January 24, 1950, Serial No. 140,240
In Denmark June 1, 1944
1 Claim. (Cl. 34—25)



A method of treating moisture-containing fluid materials to remove at least a portion of the moisture therefrom which comprises spreading the material to be treated in a thin layer having a thickness 0.05 mm. to 0.5 mm., moving said layer unidirectionally through a drying zone, heating the underside of said layer to a temperature substantially above the ambient temperature, passing a plurality of streams of non-saturated air at the ambient temperature across the top surface of the layer of material and parallel thereto in said drying zone at a velocity of 25 to 100 feet per second, each of said plurality of streams being caused to undergo laminar flow across said surface for a predetermined distance substantially less than the distance transversed by said layer in said drying zone, each stream being confined in flowing across said surface for said predetermined distance and having a height above said surface which bears the ratio to said predetermined distance of 1:8 to 1:20, and removing each of said air streams from contact with said surface after having transversed said predetermined distance.

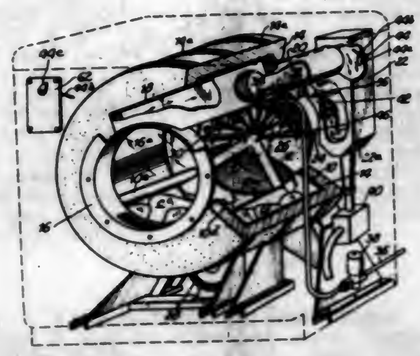
2,654,160

VARIABLE TIME AUTOMATIC CLOTHES DRIER AND CONTROL THEREFOR

Elmer J. Peterson, Minneapolis, Minn., assignor to Franklin Transformer Manufacturing Company, Inc., Minneapolis, Minn., a corporation of Minnesota

Application March 26, 1951, Serial No. 217,586
10 Claims. (Cl. 34—45)

2. In a clothes dryer comprising a heater, a drying chamber, means for injecting a cooling liquid, and means for circulating air through said elements in the above order; the mechanism comprising: means defining an energizing circuit for the heater; a switch in said circuit to open or close the same; and elements responsive to the temperature downstream the point of cooling



liquid injection operative to open the switch when that temperature falls below a preset value.

2,654,161

HAIR DRIER ATTACHMENT FOR VACUUM CLEANERS

Daniel W. Bowen, Tampa, Fla., assignor to Miracle-Vac, Inc., Miami, Fla., a corporation of Florida

Application October 17, 1952, Serial No. 315,285
1 Claim. (Cl. 34—99)



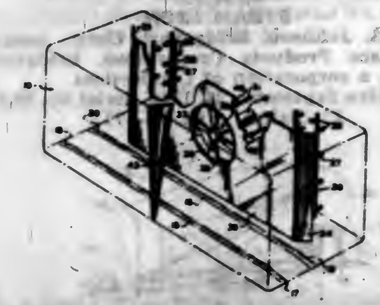
A hair drier attachment comprising a bag fabricated solely of flexible material which is porous throughout to an extent such as to resist but not prevent the passage of air therethrough, said bag being formed from a blank of the aforesaid material and having straight end edges of unequal width and side edges extending between said end edges with a fold line extending along its longitudinal center line thereof, said side edges of the blank having portions adjacent the wider end edge which are straight and having portions converging along curving lines extending from the narrower end edge and merging with the straight portions of said side edges, said blank being folded upon itself along the longitudinal fold line with the side edges stitched together throughout their entire length to thereby form a tubular member having both ends open and tapering from one of the open ends to the other, the portion of said member adjacent said one open end providing an interior space adapted to enclose loosely the hair of a human head to be dried, each of said open ends being hemmed about an elastic band, the other of the open ends of said member being adapted to embracingly receive an outlet end of an air source.

2,654,162

APPARATUS FOR TREATMENT OF POLYAMIDE FABRICS

Nathan A. Long, Lawrence T. Carter, Harvey W. Lindley, Luther B. Stadler, and Walter Lindsey Fogleman, Burlington, N. C., assignors to Long Finishing Mills, Inc., Burlington, N. C., a corporation of North Carolina

Original application January 28, 1949, Serial No. 73,282. Divided and this application July 18, 1950, Serial No. 175,422
6 Claims. (Cl. 34—204)



1. In apparatus for setting the crimp of fabric knitted from a synthetic plastic filament, a chamber, inlet and outlet means in opposite end walls of said chamber whereby fabric to be treated may be moved into and out of the chamber, means for closing said inlet and outlet means, a vertically disposed baffle extending from the top to the bottom of said chamber over an appreciable portion of the length thereof and dividing said chamber into fabric treating and atmosphere conditioning compartments, air passages between the end walls of said chamber and the ends of said baffle, the ends of the baffle being angularly disposed and extending into said conditioning compartment, heating means in said conditioning compartment, air impelling means for forcing air through an aperture in said baffle, a vertically disposed and downwardly tapered angular baffle located on the wall of the treating compartment opposite the aperture in said first mentioned baffle whereby atmosphere circulated by said impelling means will diffuse through said treating compartment and be returned to said conditioning compartment so that fabric may be treated to set the crimp thereof, said inlet and outlet means providing access to and egress from said fabric treating compartment.

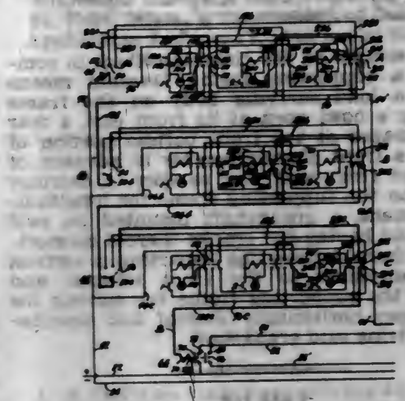
2,654,163

AUTOMATIC INDICATOR FOR TELEVISION QUIZ SHOWS

John P. Reynolds, Dayton, Ohio

Application May 24, 1950, Serial No. 163,955
3 Claims. (Cl. 35—9)

3. In an amusement device having an electrical unit to be operated by closing of a secretly selected one of a plurality of control circuits for energizing said electrical unit, the combination comprising a current source with which the unit is to be connected, a switch and conductor means for secretly establishing one of the plurality of control circuits as the circuit that will when closed effect operation of the electrical unit, a relay for each control circuit conductor, having a coil and sets of contacts a manual switch for connecting the respective relay across the current source to energise the respective coil, each of said relays having a pair of normally open relay holding contacts in parallel with the manual switch which pair of contacts when closed maintains the coil of the respective relay energized, said sets of contacts being in addition to the pair of holding contacts and being equal in number to the number of control circuits conductors and including a second pair of contacts normally closed and connected serially between the source and a pair of normally closed contacts of a second relay for completing the coil energization of a third relay when its holding contacts are closed, a third pair of contacts normally open which when closed connect the elec-



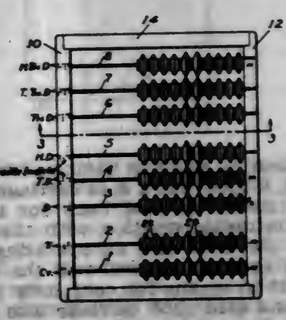
trical unit with the respective control circuit conductor, and a fourth pair of contacts normally closed and connected serially between the second pair of contacts of said third relay and the holding contacts of said second relay, the interconnection of relays being such that energisation of the coil whose control circuit conductor secretly establishes one of the control circuits with the said switch, opens the normally closed contacts and closes the normally open contacts of the respective relay that prevents the energization of the coils of all other relays, and directly connects the electric unit across the current source.

2,654,164

ABACUS

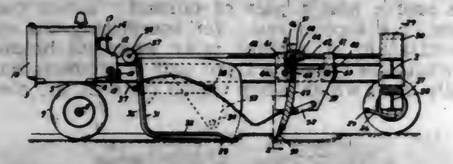
Oscar Seidenberg, Washington, D. C.

Application July 21, 1953, Serial No. 369,267
3 Claims. (Cl. 35—33)



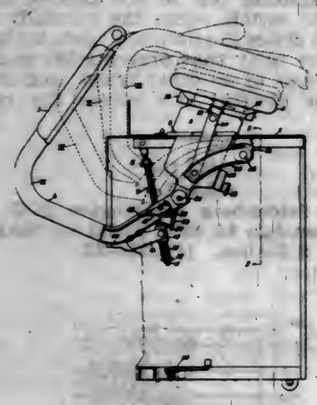
1. An abacus, comprising counters in sets of ten slidable on rods, the fifth and sixth of each set of counters differing in size from the other counters on that rod, for differentiating such fifth and sixth counters to the eye and to the sense of touch, from the other counters of its set.

2,654,165
CARRY-TYPE SCRAPER WITH FRONT DIGGER MOVING MEANS
Erich H. Lichtenberg, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a corporation
Application August 5, 1947, Serial No. 766,220
7 Claims. (Cl. 37—126)



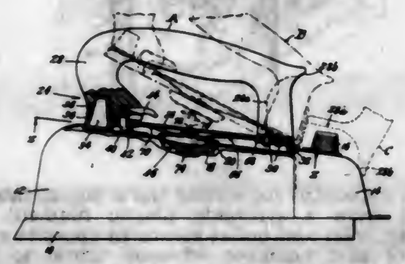
1. In a scraper of the class described, in combination, a supporting frame, traction means therefor, a load carrying body on the frame comprising a bowl open at its front end, a rear digging scraper at the front bottom portion of the bowl, a front digging scraper in advance of and spaced from said rear scraper, a carriage mounted on the supporting frame for longitudinal movement, a crankshaft mounted on said carriage and having the cranks thereof connected to the front scraper for imparting a vertical digging movement to the front scraper, and means on the supporting frame for moving the front scraper horizontally thereof and simultaneously driving said crankshaft.

2,654,166
OPERATING MECHANISM FOR DOMESTIC IRONING MACHINES AND THE LIKE
James F. Young, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application December 22, 1949, Serial No. 134,473
5 Claims. (Cl. 38—25)



1. In an ironing machine having a frame structure, a buck, a shoe, and a shoe carriage pivotally supported relative to said buck for movement between a retracted position with the shoe remote from the buck and an operating position placing the shoe in register with the buck, the improvement in means for conjointly propelling said buck and said shoe carriage into operative relationship comprising a motor unit including a cylinder fixed relative to said frame and pivotally carrying said shoe carriage, piston means within the cylinder and means for propelling the piston therein, said buck being secured to said piston, a yoke pivoted relative to said frame and extending into operative relationship with the shoe carriage, said yoke having an element in engagement with said carriage at a point spaced from its axis of rotation when said shoe is in retracted position and out of engagement when said shoe is in register with said buck, link means between said piston means and said yoke to effect rotation thereof upon movement of said piston means, and means biasing said shoe carriage into engagement with said yoke element.

2,654,167
STEAM IRON
Arthur A. Johnson, Bridgeport, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application September 21, 1948, Serial No. 50,299
17 Claims. (Cl. 38—77)



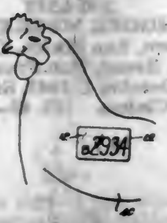
1. In a steam iron, an assembly comprising a sole plate and a reservoir mounted on said sole plate, said reservoir having a filling aperture in its upper wall; an elongate transporting and operating handle member for said iron hinged at one of its ends to the rear of the assembly for movement between a filling position exposing said aperture, and an ironing position overlying the reservoir and aperture; a closure member for said aperture, normally located above the same; an elongate resilient biasing element; and means movably mounting said element adjacent the hinged end of the handle member to be movable with respect thereto, said element extending along the handle member and bearing on both said members and being stressed therebetween when said handle member is in ironing position and said closure member is in aperture closing position to urge the members apart, whereby said closure member is firmly maintained in closing relation to said aperture.

2,654,168
ADVERTISING DISPLAY DEVICE FOR TIRES
Paul E. Heal, Chicago, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
Application February 11, 1950, Serial No. 143,777
2 Claims. (Cl. 40—2)



1. An advertising display device for a pneumatic, vehicular tire comprising, a frame fabricated from flexible sheet material, said frame defining a substantially rectangular opening, a plurality of lateral indicating pointers mounted along one edge of the said frame, and extending into said opening, one side of said rectangular frame being formed as two adjacent pieces, which upon being superimposed cause one side of the said rectangle to assume an arcuate form whereby said pointers will be respectively in direct contact with the road engaging surface of said tire.

2,654,169
CHICKEN WING MARKER
Horace W. Dryden, Modesto, Calif.
Application October 16, 1948, Serial No. 54,870
2 Claims. (Cl. 40—3)



1. A fowl wing attachable identification marker comprising a relatively large badge member having a back wall and an elongated flat strip of bendable material having the intermediate portion thereof extending along the back wall adjacent an edge of said tag parallel therewith and being rigidly secured thereto, the strip in operative position of the tag being bent adjacent opposite ends of the tag to provide a wing incision penetrating end portion and a second end portion disposed externally of the leading edge of the wing, the said end portions being further bent at points laterally spaced from said back wall providing portions parallel with said back wall disposed within a portion of the wing, and readily connectible and disconnectible fastening means adjacent the extremities of said last named strip portions, the tag projecting upwardly from said strip when in said applied position.

2,654,170
DISINTEGRABLE LABEL AND WASHABLE CONTAINER LABELED THEREWITH
Leonard R. Nester, St. Paul, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application January 17, 1949, Serial No. 71,374
2 Claims. (Cl. 40—4)



1. A washable container carrying and adherently attached label and being substantially unaffected in appearance by active conditioning and storage in an ice-chest, said label being capable of rapid removal and complete disintegration on washing of said container with warm dilute caustic, and said label comprising a low-wet-strength fibrous base sheet and a water-resistant printable surface coating, said base sheet comprising a mixture of aluminum particles and lightly bonded fibers, and said coating comprising a binder and a decorative pigment, at least one of said binder and pigment being rendered soluble on contact with warm dilute caustic.

2,654,171
DISINTEGRABLE LABEL AND WASHABLE CONTAINER LABELED THEREWITH
Leonard R. Nester, St. Paul, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application January 17, 1949, Serial No. 71,375
3 Claims. (Cl. 40—4)



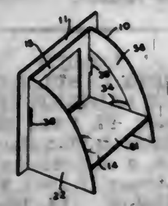
1. A washable container carrying an adherently attached label and being substantially unaffected in appearance by active conditioning and storage in an ice-chest, said label being capable of rapid removal and substantially complete disintegration on washing of said container with warm dilute caustic under moderate agitation, and said label comprising in printable sheet form an alkali-soluble, water-insoluble organic film-forming binder and dimensionally stable fibers distributed therein.

2,654,172
CHANGEABLE EXHIBITOR
Leonard J. Solomon, Forest Hills, N. Y.
Application April 11, 1950, Serial No. 155,235
4 Claims. (Cl. 40—64)



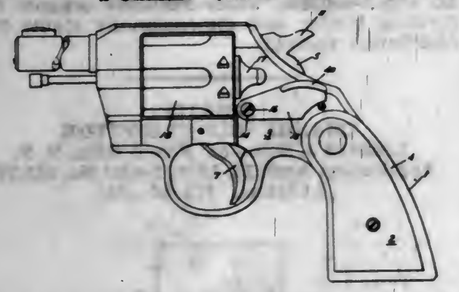
1. A display unit comprising a front panel adapted to support a display, said front panel having an aperture therein forming a window, a rear panel and an intermediate spacer panel, means to secure said panels together one adjacent another, said spacer panel having a plurality of recesses, one of said recesses being substantially aligned with said window and forming a pocket between the front and rear panels, whereby an indicia strip may be removably supported in the pocket and visible through said window, another of said recesses forming a pocket between the front and rear panels whereby said indicia strips may be stored when not used for display.

2,654,173
TRANSPARENCY VIEWING DEVICE
Christian Christensen and Geneva Bandy Christensen, New Rochelle, N. Y.
Application October 31, 1946, Serial No. 706,840
5 Claims. (Cl. 40—152.2)



1. A transparency viewing device for use with a non-self-contained source of illumination, said device comprising: a body having a first orifice; a transparency support having a second orifice; a pair of support elements movably connected to said body; said transparency support being foldable upon said body; and means to detachably interengage said transparency support with said support elements including at least one fixed projection upon said transparency support, and at least one slot disposed in one of said support elements at the line of connection between said support element and said body; movement of said support element serving to engage said projection in said slot, after said transparency support has been folded upon said body.

2,654,174
REVOLVER THUMB REST SAFETY
Maurice Hansen, San Mateo, Calif., assignor to Samuel I. Keene, San Francisco, Calif.
Application November 1, 1949, Serial No. 124,869
2 Claims. (Cl. 42—66)



1. In a revolver including a frame having a butt for grasping by the hand and a retractable cocking piece and a retractable trigger operably connected with said cocking piece for release of the latter from a retracted position upon a predetermined movement of said trigger, a thumb rest projecting laterally from a side of said frame substantially the width of the thumb of said hand and adjacent to the upper end of said butt supported on said frame for generally vertical movement from an elevated position to a lowered position and vice verse, means securing said thumb rest to said frame for said movement, said thumb rest being engageable by said thumb when in said elevated and lowered positions and when the forefinger of said hand is in trigger retracting position for effecting said movement of said thumb rest by said thumb and for supporting said thumb pointing forwardly in normal shooting position when said thumb rest is in said lowered position, a member supported on said frame for movement from a "safe" position obstructing retraction of said cocking piece when said thumb rest is in said elevated position to a "ready" position permitting said retraction of said cocking piece when said thumb rest is in said lowered position and vice verse, and means including a portion of said thumb rest rigid with the latter and in engagement with said member for causing said movement of said member upon said movement of said thumb rest from said elevated position to said lowered position, said last mentioned means including means for yieldably holding said thumb rest in said elevated and said lowered positions respectively.

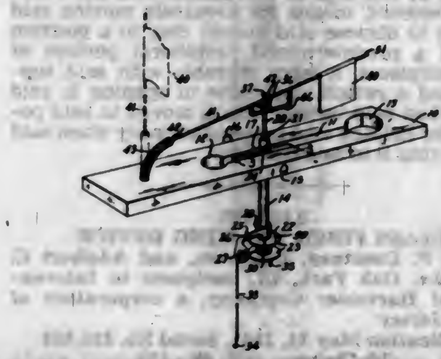
2,654,175
TRIGGER MECHANISM
Maurice Hansen, San Mateo, Calif., assignor to Samuel I. Keene, San Francisco, Calif.
Application October 1, 1949, Serial No. 119,115
3 Claims. (Cl. 42—69)



3. A trigger mechanism comprising a frame having a trigger pivotally supported thereon for oscillatory movement between a fixed forward position and a fixed retracted position and a spring yieldably urging said trigger from said retracted position toward and to said fixed forward position, a cocking piece pivoted on said frame for swinging from a forward firing position to a retracted cocked position, a spring yieldably urging said cocking piece from said retracted position toward and to said cocked position, a first sear on said trigger engageable by said cocking piece upon movement of the latter to its said cocked position for yieldably holding it in said position when said trigger is in its said forward position, a second sear in said trigger movable into releasable engagement with said cocking piece upon retraction of said trigger to a point spaced between its said forward position and its said retracted position for holding said cocking piece in its said cocked position, a movable element on said trigger in releasable engagement with said second sear, and movable with said trigger, a member on said frame positioned to engage said element at a point in the movement of said element with said trigger for moving said element out of holding engagement with said cocking piece whereby said cocking piece will be released for movement to its forward position when it is released from said first sear.

2,654,176
ICE FISHING TIP-UP
Albert F. Kacheiski, Fred W. Crinion, and George J. Beers, Beaver Dam, Wis.
Application September 26, 1949, Serial No. 117,788
13 Claims. (Cl. 43—17)

9. In an ice fishing tip up the combination with an ice hole spanning base having a slot with enlarged openings at either end of the slot, of a flag indicator including a staff mounted on the base remote from the slot and biased to an upright position normal to the base, a bearing tube having an axially offset mounting portion on which the tube is pivoted for swinging movement in the plane of the slot, a shaft axially rotatable within the tube and having a portion projecting longitudinally of the tube carrying a transverse trigger spaced from the upwardly projecting end of said shaft, a reel axially carried on the other end of said shaft and adapted to receive a fish line in wound relation thereon, said flag staff having a yoked portion engageable with the trigger when normally retracted against its upward bias, one side of said yoke being engaged beneath



the trigger at one side of the shaft and another side of the yoke being contactable with the shaft above the trigger and at the opposite side of the shaft, said flag staff being released from engagement with said trigger upon rotation of said trigger into substantial parallelism with said staff.

2,654,177
FISHING LINE ATTACHMENT
Lively O. Cope, Morganton, and William Herman Lowe, North Wilkesboro, N. C.
Application July 17, 1950, Serial No. 174,222
4 Claims. (Cl. 43—44.88)



1. In a fishing line attachment, a body element having an interior cavity of circular cross section terminating in end openings of reduced diameter adapted for free passage of a fishing line, at least a portion of said cavity at one end of said element having cylindrical walls of a smaller internal diameter than at the opposite end of said element thus forming a stepped configuration, and a ball freely movable in said cylindrical walled cavity portion, said ball having a diameter only slightly smaller than said cylindrical walled cavity portion so as to compress a fishing line between its surface and the wall of said cavity portion to lock the line against movement except when accompanied by movement of the ball, and an inwardly sloping end wall at the termination of said cavity portion to limit movement of the ball.

2,654,178
CHEMICAL GUN TRAP
Hershey Roy Graybill, Manheim, Pa., assignor to Animal Trap Company of America, Lititz, Pa., a corporation of Pennsylvania
Original application December 21, 1944, Serial No. 569,141. Divided and this application January 8, 1949, Serial No. 69,909
5 Claims. (Cl. 43—84)



1. In a gun trap for predators of the type adapted to be anchored in the ground in a substantially vertical position and to be seized by the mouth of the predator, the combination of an anchor member adapted to be at least partly buried in the ground, said anchor member comprising a hollow stake open at its upper end, a downwardly-extending cylindrical casing member adapted to support a cartridge and bait holder, the downwardly-extending end-portion of said casing member being of a conical configuration with an eye therethrough and being received in said open end of said stake, and internal flexible means in said casing for non-rigidly connecting said casing with said anchor in a universal swivel relationship whereby to permit said casing to be tipped by the predator to a limited extent in any direction.

2,654,179
BIRD WHISTLE
John H. Bacon, Wellesley, Mass.
Application June 23, 1951, Serial No. 233,221
8 Claims. (Cl. 46—44)



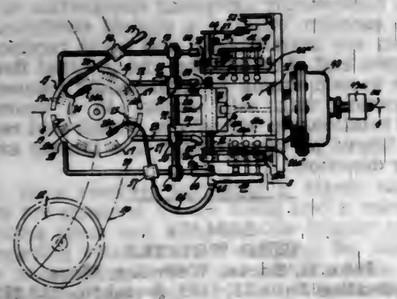
1. In combination with an air jet operated sound instrument of the organ pipe type a deflecting plate having an edge dipping into the mouth of the pipe, a spring supporting said deflecting plate, means connecting said spring with said pipe, a bird figure mounted on said pipe, and means connected with said spring forming a part of said figure whereby when the spring is vibrated an animation is supplied to said figure.

2,654,180
LAWN EDGER
Charles V. Redfield, Portland, Oreg.
Application November 3, 1948, Serial No. 58,058
1 Claim. (Cl. 47—33)



A lawn edger comprising a metal border strip composed of an elongated metal strip imbedded in the ground in a vertical plane and having its top edge flush with the surface of the ground, a V-shaped trough formed along one side of said strip forming a track for a wheeled edger, said top edge constituting a shearing edge by movement of the wheeled edger therealong.

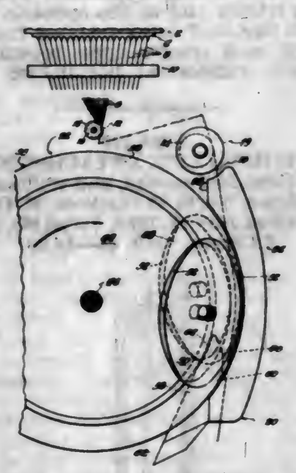
2,654,181
SEALING APPARATUS
Andrew L. Lucarelli, Lancaster, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application November 15, 1949, Serial No. 127,419
3 Claims. (Cl. 49—1)



2. A burner for sealing a glass face plate to a metal cone of a cathode-ray tube comprising a plurality of nozzles disposed in an array for directing fires to a periphery of said cone, a plurality of rigid conduits, a plurality of said nozzles being connected to each of said rigid conduits for uniform distribution of fuel to said nozzles, a shaft mounted for pivotal movement on an axis disposed to one side of said array, said rigid conduits being fixed to said shaft for sole support thereby, and means for pivotally moving said shaft, whereby said nozzles are moved away from said face plate and cone after completion of a sealing operation, and a sealed face plate and cone are adapted to be moved laterally away from said array to a further processing station.

5. A sealing apparatus comprising an intermittently movable turret having supports for workpieces to be sealed, a burner forming a substantially closed ring, a support for said burner pivoted at one side of the burner ring for arcuate movement, means for arcuately moving said support to dispose said burner ring in a position around a predetermined peripheral portion of the workpieces, a lever movable with said support, and a switch responsive in opening to said lever when said burner ring is moved to said position for holding said turret stationary when said burner ring is in said position.

2,654,182
GLASS FIBER DRAWING DEVICE
Joseph F. Courtney, Evanston, and Adelbert C. Radtke, Oak Park, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application May 11, 1951, Serial No. 225,882
16 Claims. (Cl. 49—17)



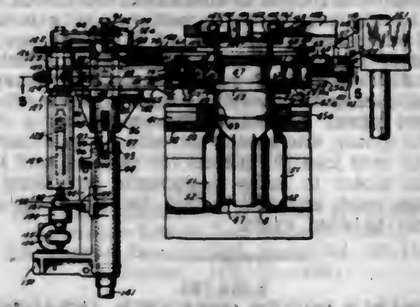
1. In apparatus for attenuating elongatable materials, a circular structure comprising a pair of circumferentially extending flexible diaphragms defining a material receiving gap therebetween, means for rotating the structure, and means for deflecting said diaphragms axially to close the gap and grasp the material therebetween and comprising a pair of discs receiving said diaphragms therebetween and each having its peripheral face pressed into the external side of the adjacent diaphragm and each rotating on an axis angularly related to the axis of rotation of the structure.

2,654,183
GLASS FIBER DRAWING DEVICE
Adelbert C. Radtke, Oak Park, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application May 11, 1951, Serial No. 225,884
19 Claims. (Cl. 49—17)

1. In material attenuating apparatus, support means having opposed drawing faces movable to and fro with respect to each other to grasp and release the material therebetween, and means for urging said faces towards each other and comprising a series of fingers, and means for selectively biasing said fingers in directions to urge said faces towards each other.

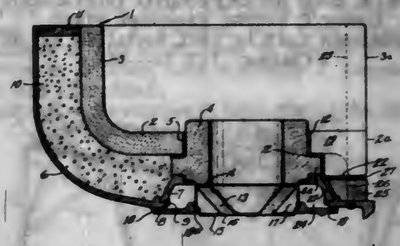


2,654,184
GLASS FEEDING APPARATUS
Karl E. Peiler, West Hartford, Conn., assignor to Emhart Manufacturing Company, a corporation of Delaware
Application April 21, 1949, Serial No. 88,869
15 Claims. (Cl. 49—55)



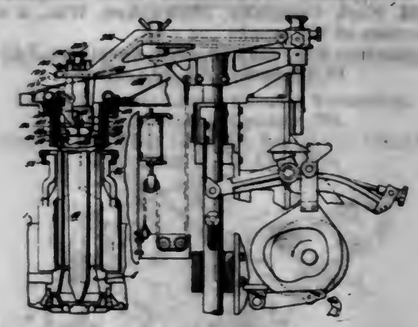
1. A glass blending and circulating implement adapted to project through an opening in the cover of a glass feeding chamber or channel so that its lower end depends into the glass in the chamber or channel and its upper end extends above the cover, said implement comprising a plurality of cooperative similar sections having segmental upper arcuate portions which form a cylinder adapted to extend through said opening with but slight clearance between itself and the wall of the opening and having lower portions offset radially outward in relation to their upper portions so as to lie in a circle of greater diameter than the opening in the cover, said outwardly offset lower portions being of less arcuate extent than the upper portions so that gaps are provided between adjacent such lower portions to permit the flow of glass and heat radiation between them and being formed with out-turned flanges at their lower extremities, said lower portions being partially cut away at their side edges from their lower ends upward to a height above the level of the glass in the chamber or channel so that the gaps between adjacent side edges of the lower portions of the sections are of predetermined contour.

2,654,185
MOLTEN GLASS FEEDER SPOUT
William T. Henius, West Hartford, Conn., assignor to Emhart Manufacturing Company, a corporation of Delaware
Application December 21, 1949, Serial No. 134,253
4 Claims. (Cl. 49—55)



1. A glass feeder spout comprising a refractory bowl having a bottom provided with a downwardly projecting vertical outlet wall at the approximate center thereof and having a slit therein extending from an edge thereof to said outlet wall, a casing means to support said bowl at its outlet wall in said casing so as to be spaced therefrom around the outlet wall, the portion of the bowl bottom containing the slit being spaced above the corresponding portion of the casing, refractory cement luting in said slit, and means located between the bottom of the slit and the underlying portion of the casing to chill any glass leakage through the luted slit.

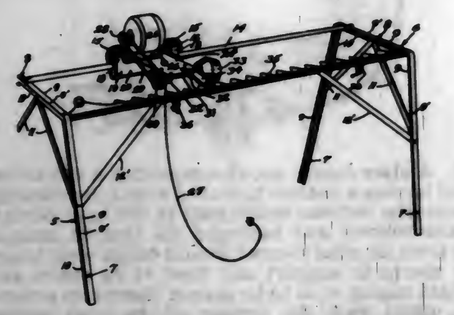
2,654,186
GLASS FEEDER REFRACTORY IMPLEMENT CHUCK
Karl E. Peiler, West Hartford, Conn., assignor to Emhart Manufacturing Company, a corporation of Delaware
Original application April 21, 1949, Serial No. 88,869. Divided and this application April 17, 1952, Serial No. 282,887
5 Claims. (Cl. 49—55)



2. In glass feeding apparatus, a supporting arm having an end portion formed to provide a vertically open frame having an upwardly facing counterbored seat, a chuck comprising a head fitting removably in said frame so as to be supported by said seat, a vertical shank depending from said head, a clamp carried by said shank and comprising a plurality of openable and closable grippers for gripping between them the upper end portion of an elongate refractory implement so that said implement may be supported thereby to depend into a glass container having a vertical outlet passage in its bottom to position the lower end of the implement in co-

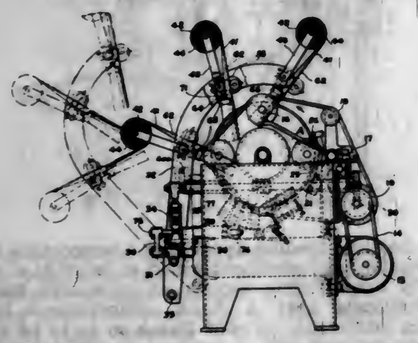
operative relation to the said outlet passage, and spring means operatively associated with said grippers to maintain them in firm gripping relation to the upper end portion of said implement.

2,654,187
SICKLE BAR SHARPENING IMPLEMENT
Lester T. Ferrin, Tonasket, Wash.
Application April 14, 1951, Serial No. 221,080
3 Claims. (Cl. 51—36)



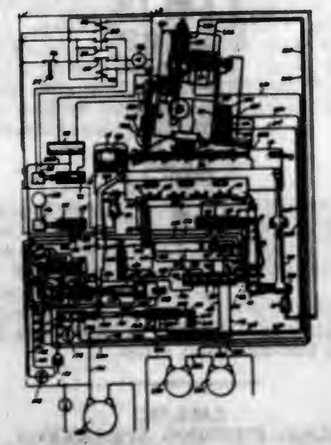
2. In a sickle bar sharpening implement having a supporting frame and a reciprocable mounting plate carrying a rotatable grinding wheel, a carriage moveable longitudinally on the frame and adapted to support said mounting plate comprising a U-shaped body adapted to encircle a portion of the frame, spaced rollers carried by said body and disposed to roll on a part of said supporting frame, and spaced guides rigidly secured on said body transversely of the direction of movement and adapted to slidably support said mounting plate.

2,654,188
METHOD AND APPARATUS FOR SANDING AND POLISHING SPOOLS AND THE LIKE
Carl J. Lippold, Wauwatosa, Wis., assignor to J. M. Nash Company, Milwaukee, Wis., a corporation of Wisconsin
Application February 10, 1948, Serial No. 7,416
18 Claims. (Cl. 51—67)



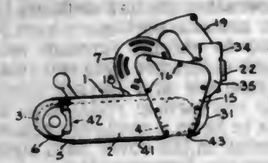
1. In a sander, a support for a web of polishing material comprising a backing composed of multiple layers of overlapping individually yieldable strands aligned in the direction of abrasion and having a mounting at one end and a flexible pad of sheet material materially thinner than the backing and overlying said strands and upon which such web is supported.

2,654,189
APPARATUS FOR GRINDING NON-CYLINDRICAL SURFACES
Elman R. Dunn and Donald F. Price, Waynesboro, Pa., assignors to Landis Tool Company, Waynesboro, Pa.
Application February 2, 1951, Serial No. 209,160
5 Claims. (Cl. 51—101)



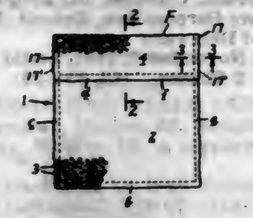
5. In a machine of the kind described having a bed, a grinding wheel support, a grinding wheel rotatably mounted thereon, a work support, said supports being mounted on said bed, means for effecting relative longitudinal movement between said supports, means to effect said movement intermittently to successively position said grinding wheel and spaced portions of a work piece in operative relation including a locating mechanism for controlling said longitudinal moving means, means for swivelling said grinding wheel support about a vertical axis including a hydraulic motor, and means including a valve actuated by said locating means for causing said hydraulic motor to move in opposite directions to position said grinding wheel for grinding oppositely tapered cams.

2,654,190
PORTABLE POWER-OPERATED ABRADING MACHINE
Walter G. Mitchell, Aurora, Ill., assignor to Thor Power Tool Company, Aurora, Ill., a corporation of Delaware
Application May 13, 1949, Serial No. 93,127
7 Claims. (Cl. 51—170)



1. In a portable power operated abrading machine of the character described, a support, an abrading element and a power motor for operating the same, both mounted on said support, a handle at one side of the support and extending rearwardly of said motor, a gear train directly connecting the motor to said abrading element for operating the same, a gear case on the support enclosing the gear train, said gear case being laterally spaced from the handle and extending rearwardly of said motor in parallel relation with said handle to provide a space therebetween, a suction fan for removing dust from said machine mounted in said space and having a housing detachably secured to said gear case, the latter having an opening therein facing said fan, a shaft for the fan extending through said opening, and a gear pinion on the shaft within said gear case in mesh with one of the gear wheels of the gear train.

2,654,191
POT CLEANER
Frederick A. Pusch, Brooklyn, N. Y.
Application November 29, 1951, Serial No. 258,803
4 Claims. (Cl. 51—185)



1. As a new article of manufacture, a cleaning cloth composed of a looped fabric of the nature of terry cloth the major portion of the warp and woof whereof is highly pliable and water-absorptive and the nap on at least one side thereof being in the form of separate loops which are coated and filled with a soap-resistant, water-insoluble plastic, said cloth being folded on itself to form a flap element of an area considerably less than one-half that of the underlying cloth and the edges of the flap element being adhesively united to the underlying cloth and being re-inforced with cementitious material to form scraper means.

2,654,192
ROTARY ABRADING STRIP HOLDER
Lawrence Lynch, Los Angeles, Calif.
Application June 2, 1952, Serial No. 291,119
3 Claims. (Cl. 51—194)



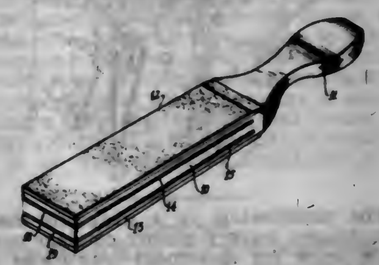
1. A support for a strip of material comprising, a roller having a threaded cylindrical passage axially therethrough near the outer surface thereof, the portion of the roller between the passage and the surface of the roller being cut to provide a slot leading into the axial center of the passage and of a width to admit therethrough the ends of the strip to be supported, a threaded cylindrical strip tightening element extending through and fitted to rotate in the threads of said passage, the element having a slot axially sunk into one end thereof for alinement with the roller slot to receive therein the ends of the strip fed through the roller slot, there being an arcuate recess in the threaded wall of the passage adjacent one edge of the roller slot of a depth to receive therein the layers of the strip when the element is rotated to force the layers of the strip into said recess, and a thin spacing disc rigidly seated in the slot of the element at the outer end thereof.

2,654,193
ABRASIVE POLISHING AND GRINDING DISK ASSEMBLY
Edward L. Rich, Bay City, John K. Bauer, Flint, and William E. Dengel, Bay City, Mich., assignors of one-sixth each to George P. Harris, John T. O'Brien, and Anthony J. Fergash, all of Bay City, Mich.
Application November 8, 1951, Serial No. 255,418
8 Claims. (Cl. 51—197)



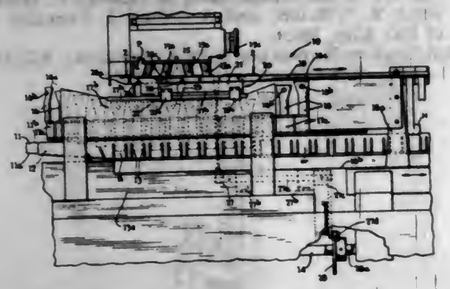
1. In a polishing and grinding disc assembly, a hub structure having a central opening adapted to be secured to a power spindle and having a central recess in the outer face thereof, a flexible backing disc secured to said hub, a flexible disc-shaped abrasive sheet, a central hub portion for said sheet having an annular peripheral groove and inwardly angled, circumferentially spaced locking pins carried by said hub structure having their ends presented to said groove to clamp the central hub of the abrasive sheet in said recess.

2,654,194
BLADE SHARPENER AND METHOD OF MAKING THE SAME
Louis J. Raab, Lower Saucon Township, Northampton County, Pa.
Application May 13, 1950, Serial No. 161,756
6 Claims. (Cl. 51—198)



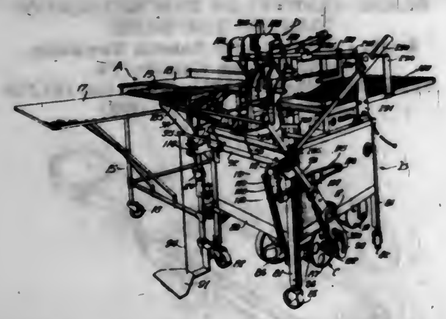
1. In a blade sharpener, a strip of cured animal hide having an imperforate stropping surface the pores or inter-fiber spaces of which, underlying said surface, contain deposits of a mixture of powdered abrasive comprising aluminum oxide, silicon carbide, and zinc oxide, more than half of such mixture, by weight, being powdered aluminum oxide.

2,654,195
MEASURED CHARGE SUPPLY CONTROL FLOW MECHANISM FOR AUTOMATIC PACKAGING MACHINE OPERATIONS
Hans O. Irmscher, East Hempstead, N. Y., assignor to National Tea Packing Company, Inc., a corporation of New York
Application November 16, 1949, Serial No. 127,720
12 Claims. (Cl. 53—10)



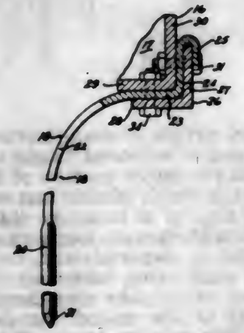
1. In a machine of the character described a mechanism comprising, an intercepting carrier for controlling successive flowing measured charges of a product received from a dispenser for delivery to empty bag sections advancing in a direction along one path, means for moving said carrier over said path to and fro with respect to said direction, said carrier being advanced by said means in said direction after intercepting said charges received from the dispenser and being moved in the opposite direction during the intercepting of said charges.

2,654,196
COMBINATION SHEETER AND WRAPPER FOR PACKAGE WRAPPING MACHINES
Mark H. Corley, River Forest, Bengt A. Arvidson, Villa Park, and Ralph F. Barber, Elmhurst, Ill., assignors to Miller Wrapping & Sealing Machine Co., Chicago, Ill., a corporation of Illinois
Application March 7, 1949, Serial No. 79,956
31 Claims. (Cl. 53—45)



1. The combination in a wrapping machine, of a horizontal track, a pusher-carriage mounted on said track for movement lengthwise thereof along, a pusher bar extending transversely of said track and bodily movable from a rearward starting position upwardly and lengthwise of said track along an arcuate path to a forward limiting position, a linkage intercoupling said pusher bar with said pusher-carriage and serving to anchor said pusher-carriage to said pusher bar so that said carriage cannot be moved forwardly along said track while said pusher bar remains in its starting position, said linkage having a pivotal connection at one end to said pusher-carriage whereby it is rotatable to allow said pusher bar to move forwardly to a limited extent along said arcuate path without propelling said pusher-carriage, and stop means on said pusher-carriage operative to limit the degree of rotation of said linkage, being thereby effective to drivably intercouple said pusher-carriage to said pusher bar so that said pusher bar is effective during the remainder of its forward stroke to propel said pusher-carriage forwardly along said track.

2,654,197
AGRICULTURAL IMPLEMENT AND TINE CONSTRUCTION THEREFOR
Earl W. Peterson, Chicago, Ill., assignor to Dearborn Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 7, 1947, Serial No. 784,577
2 Claims. (Cl. 55—36)



1. An agricultural implement having a frame, ground-engaging tines, and a removable clamping member for securing a group of said tines to said frame, said frame including a member having adjacent angularly disposed surfaces; characterized by the upper portion of each of said tines having an attachable section bent to conform to said angularly disposed frame surfaces for engagement therewith, said removable clamping member having at least one surface adapted to engage said attachable section of each tine, securing means between said clamping member and said frame member for drawing said clamping member into firm engagement with each tine positioned between said two members, and means for supporting each tine independently of the action of said securing means comprising a hook section formed on the upper end of each tine, said hook section having an open end disposed downwardly when the tine is substantially in a normal ground-working position, said hook section engaging said clamping member to support the weight of said tine when said securing means are loosened.

2,654,198
DISK HARROW
Kelly P. Ryan, Blair, Nebr., assignor to Kelly Ryan Equipment Company, Blair, Nebr., a corporation of Nebraska
Application February 18, 1949, Serial No. 77,127
4 Claims. (Cl. 55—81)

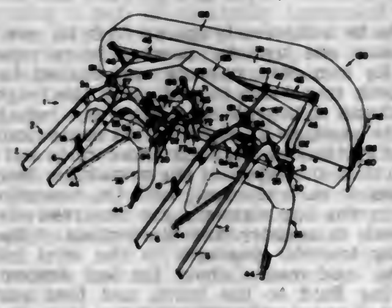
4. In a disk harrow including two elongated frames having inner end portions, a pair of vertical rods rising from the inner end portions of said frames and lying on a plane through the

axes of said frames, a tie bar extending between and overlying the inner end portions of the frames and terminally slidable on said rods and



supported solely by said frames, and vertical springs on said rods and urging said bar against the inner end portions of said frames.

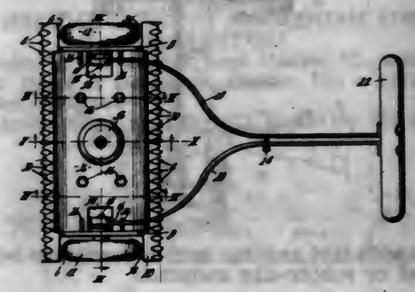
2,654,199
POWER-DRIVEN STALK CUTTER
Emil F. Ohlendorf, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application December 18, 1948, Serial No. 66,020
11 Claims. (Cl. 55—118)



1. A tractor mounted stalk shredder comprising a unit including a frame, a generally fore and aft extending stalk-guiding means, and a stalk-cutting means carried by said frame at the rear end of said stalk-guiding means, a draft member adapted to be pivoted at its forward end to the tractor and pivotally connected at its rear end to said frame, whereby said frame, stalk-guiding means and said stalk-cutting means may pivot relative to the rear portion of said draft member and the latter, with said frame, stalk-guiding means and stalk-cutting means, may pivot relative to the tractor, and resilient means acting between said frame and said draft member for urging the forward portion of said stalk-guiding means down into contact with the ground.

2,654,200
SICKLE BAR TYPE LAWN MOWER
Thomas T. Bathurst, Miami, Fla., assignor to Roy Randall and Claude O. Fields, both of Kansas City, Mo.
Application June 13, 1949, Serial No. 98,705
8 Claims. (Cl. 56—26.5)

1. A lawn mower comprising a cutter assembly having cooperating shearing members along the forward and rearward edges thereof, and supporting members from which said cutter assembly is supported for pivotal movement about an axis intermediate, above, and parallel to the forward and rearward edges of said cutter assembly, whereby when said lawn mower is moved in either direction, the rearward drag of the grass being cut will pivot the leading edge of the cutter assembly downwardly toward the ground, a handle for propelling said lawn mower over the ground,



said handle being pivotally secured to said supporting members at the pivotal axis of said cutter assembly, and stops carried by said cutter assembly and adapted to limit the pivotal movement of said handle relative to said cutter assembly.

2,654,201
COTTON STRIPPING MACHINE
Benjamin M. Hyman, Moline, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application September 9, 1950, Serial No. 184,068
6 Claims. (Cl. 56—29)

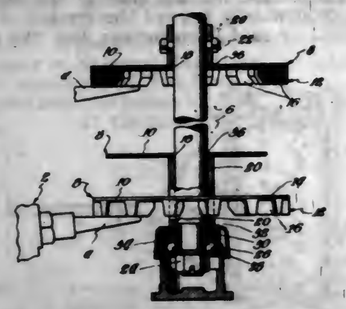


1. In a machine for stripping bolls from field rows of cotton plants, a mobile frame having an elongated side wall having a lower edge and forming a side of a plant row receiving throat, a boll receiving conveyor generally parallel to said wall and forming an opposing wall of said throat, an elongated rotor instrumentality journalled in said frame adjacent said lower edge of said side wall, and a boll transfer and plant beater rotor structure journalled in said frame above said conveyor on an axis extending lengthwise of said throat.

2,654,202
COTTON PICKER DOFFER ASSEMBLY
Lee P. Millard, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application February 17, 1951, Serial No. 211,463
3 Claims. (Cl. 56—41)

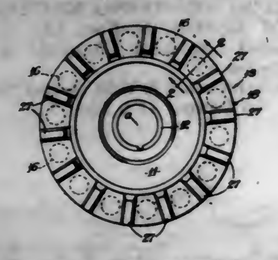
1. A doffer for a cotton picker of the type described comprising a thin, resilient, annular plate and doffer means carried thereby and comprising an annulus having a bonded connection

to one side of the plate at the outer periphery thereof, and axially projecting doffing lugs in-



tegral with said annulus, said doffer means being formed of rubber-like material.

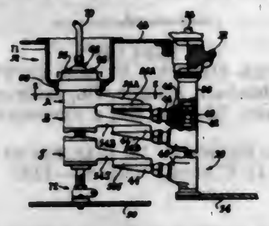
2,654,283
BONDED DOFFER FOR MECHANICAL COTTON PICKERS
Howard F. Parkerton, South Gate, Calif., assignor to International Harvester Company, a corporation of New Jersey
Application February 17, 1951, Serial No. 211,471
5 Claims. (Cl. 56—41)



1. A doffer assembly comprising a plate-like unit for rotation about a principal axis thereof, said unit having an annular face thereon disposed substantially within a plane at right angles to said axis and coaxial therewith, there being holes in said unit in registry with said face; an integral unit of elastomer material comprising an annular wafer-like web having an obverse face and a reverse face congruent with and disposed in flatwise contiguity with said face of the plate-like unit, a plurality of lugs projecting axially from said obverse face and spaced apart circumferentially thereof, and anchoring studs projecting from the reverse face respectively into said holes, and means adhesively joining said opposed faces throughout their area of opposed contiguity.

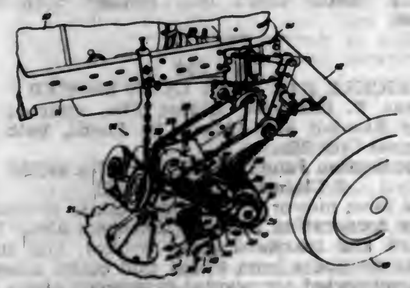
2,654,284
COTTON SPINDLE MOISTENING APPARATUS
Dale D. Gresvenor, Ames, Iowa, assignor to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa
Application June 20, 1952, Serial No. 294,689
26 Claims. (Cl. 56—41)

1. In a cotton picker having picking mechanism of the type including a plurality of uniformly vertically spaced layers of picker spindles, the improvement residing in a fluid distributor for the spindles comprising: a vertical series of individual distributor elements equal in number to the spindle layers and respectively having upper and lower surfaces and arranged to form a column alongside the picking mechanism, with the lower surface of each element except the bottom element overlying the upper surface of the next lower element and with said elements respectively at the levels of the spindle layers; each element having in a side portion thereof facing toward the picking mechanism a discharge opening leading toward the associated layer of spindles and a feed passage extending inwardly and upwardly and opening as a feed port at the upper surface of the element, the elements being so arranged that the feed ports are alined along the height of the column; each element above the bottom element having therein as many transfer passages as there are elements below it, one transfer passage in each element except the bottom element having an outlet at its lower surface in register with the feed port in the next lower element and an inlet at its upper surface offset from said outlet in a direction transverse to the height of the column



so as to be transversely spaced from its own feed port, said one transfer passage being separate from its own feed passage and shaped to extend both transverse to and along the height of the column to provide said offset, the remaining transfer passages in each element being similarly shaped and having similarly offset inlets and outlets so that the inlets of the remaining transfer passages in each element, with the exception of those in the top element, are progressively respectively in register with the outlets of the remaining transfer passages in the next higher element; and means above the top element for supplying fluid to the inlets and feed port of the top element, whereby said top element feed port delivers fluid via its feed passage directly to its discharge opening and the top element inlets deliver fluid via their own transfer passages and the successively registering passages below them to the remaining discharge openings in descending order.

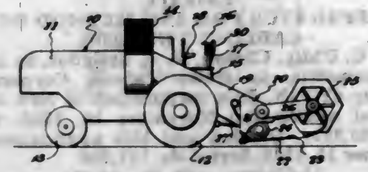
2,654,285
FINDER MECHANISM FOR BEET TOPPERS
George E. Stadstad, Manvel, N. Dak., assignor to International Harvester Company, a corporation of New Jersey
Application June 20, 1951, Serial No. 234,493
7 Claims. (Cl. 56—121.46)



1. In a driven finder for beets and the like adapted to travel upon the surface of the ground

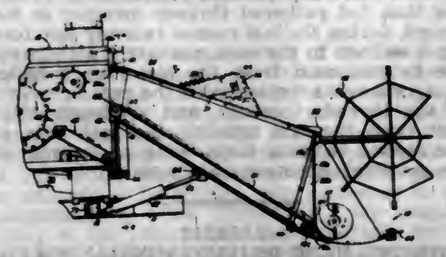
and to engage the growing crop, a supporting frame, a pair of spaced rollers rotatably carried by the frame, an endless belt trained on said rollers, at least one of said rollers comprising circumferentially spaced belt-engaging slats, and a stationary auger carried by said frame and extending axially through said latter roller.

2,654,286
MANUAL CONTROL DEVICE FOR COMBINE TABLE ELEVATORS
Allie Phillip Dobrowski, Chicago, Ill.
Application April 9, 1952, Serial No. 281,433
16 Claims. (Cl. 56—208)



1. An electrical switch control device for the cutter bar of a combine having a steering mechanism and apparatus for raising and lowering the cutter bar including an electrical switch for starting and stopping said apparatus, said device comprising a pair of co-axially assembled plate members pivotal one relative to the other, one plate having a bracket for securing the assembled plates adjacent the steering mechanism with the second plate operatively associated with the switch for opening and closing the same, knee operable means on the said second plate adapted to be manipulated manually for pivoting the second plate relative to the other plate selectively to close the switch to said apparatus for raising or lowering said cutter bar, said plates having means normally biasing the plates to remain in a neutral position with said switch open and cooperating stop means limiting pivotal movement of said second plate.

2,654,287
COMBINE HAVING SIDE HILL PLATFORM ADJUSTMENTS
Melvin Long, Dayton, Wash.
Application February 5, 1951, Serial No. 209,479
20 Claims. (Cl. 56—209)



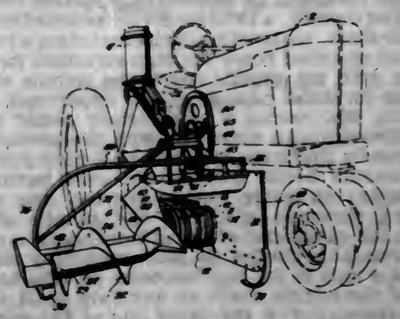
1. In a harvester: ground-engaging means adapted to advance over a field; a thresher unit carried by the ground-engaging means for advance therewith and for lateral tilting adjustment relative to the ground, and having crop-receiving means including a forwardly facing opening; a harvester unit movable forwardly with the thresher unit and ground-engaging means and including crop-delivery means having a rearwardly facing opening in register with the thresher unit opening; and swivel joint means juxtaposed relative to the registering openings and interconnecting the units for relative angular movement about a fore-and-aft axis extending through and surrounded by the registering openings.

2,654,288
HELICAL CUTTING MECHANISM FOR HARVESTERS
Stanley F. Pasturczak, East Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application March 31, 1951, Serial No. 218,576
2 Claims. (Cl. 56—252)



1. Cutting mechanism, comprising: a fixed support; a first elongated member of uniform cross-section wound as a hollow helix of uniform pitch presenting a helical, internal bearing surface of uniform diameter, said surface having one marginal edge thereof formed as a coextensive helical cutting edge; means rigidly securing said first member at axially spaced portions thereof to the support; a second elongated member wound as a smaller helix of uniform pitch and having an external helical bearing surface of uniform diameter but tolerably smaller than the diameter of the aforesaid internal bearing surface; said members being homocentrically arranged with the second member inside and rotatable relative to the first member, said bearing portion on the second member riding on the internal bearing surface of the first member; said bearing portion on the second member having one marginal edge thereof formed as a coextensive helical cutting edge cooperative with the first member cutting edge; the ratio of the pitch of the first helix to the diameter of the internal bearing surface being in the order of between 1:1 and 2:1, and the pitch of the second helix exceeding that of said first helix.

2,654,289
HARVESTER PICKUP
Russell R. Raney, Western Springs, and Edwin F. Huddle, Elmwood Park, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application January 9, 1951, Serial No. 205,102
9 Claims. (Cl. 56—364)



1. In a tractor-mounted harvesting machine for gathering cut crops in the field and having a crop-receiving structure with an inlet at the forward end thereof, charging means therefor

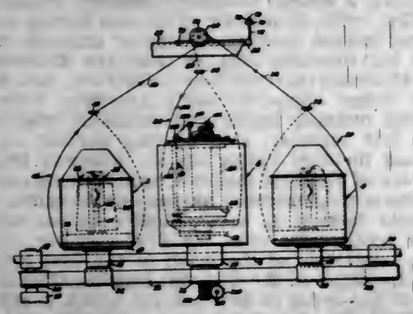
carried by the structure at said inlet, said charging means comprising a revolvable tined drum rotating with its forward side sweeping upwardly, said drum being spaced above and open to the ground whereby it effects a raking action on the crop and permits stones and dirt clods and the like to pass therebeneath, crop-gathering means disposed laterally outboardly of said inlet and comprising an auger rotatably carried by the structure above the ground and adapted to directly engage cut crop on the ground thereahead for shifting the crop along the ground to in front of said charging means without substantial fluffing of the crop, and a guide surface member carried by said structure and extending forwardly of said inlet along the inboard side thereof and transversely aligned with said auger and adapted to hold the bunched crop in front of said charging means.

2,654,210

APPARATUS FOR CABLING THREADS

George W. Bogdanffy, Clyde O. Mitchell, and Henry C. Uhlig, Clifton, N. J., assignors, by mesne assignments, to Howe Twister Corporation, Jersey City, N. J., a corporation of New Jersey

Application November 10, 1948, Serial No. 59,392
3 Claims. (Cl. 57—58.55)



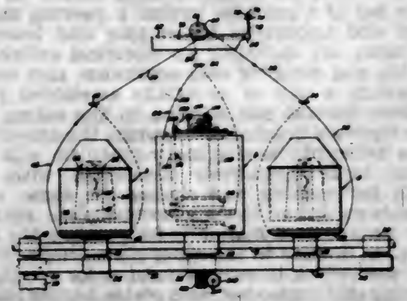
1. Apparatus for twisting and reeling elongated flexible material such as cord, which comprises a rotary driven spindle shaft disposed at a small acute angle to the vertical, a bobbin support mounted on the upper end of such spindle shaft, a slip driving connection between the spindle shaft and the bobbin support, a thread guide supporting cage surrounding the bobbin support and floatingly mounted on the spindle shaft so as to be maintained in a relatively stationary position, means for maintaining the cage structure in such position including an eccentrically located weight attached thereto, a twisting device mounted on the spindle shaft, the twisting device including a twisting disc mounted below the cage structure for rotation with the spindle shaft, the spindle shaft having an axial passage in its upper end, the twisting disc having a substantially radial passage therethrough connected with the passage in the spindle shaft, the cage having a cord guiding and loading device thereon, the cage having a supporting structure located thereon, the supporting structure spanning the spindle shaft above the upper end of the spindle shaft, a capstan rotatably carried by said supporting structure, the axis of the capstan being parallel to the axis of the spindle shaft, an auxiliary shaft drivingly engaged with the upper end of the spindle shaft, a speed reducing driving means between the auxiliary shaft and the capstan, whereby the capstan is driven at reduced speed and in synchronism with the spindle shaft, the capstan having a cord engaging step thereon, means for guiding the cord issuing from the spindle shaft to and around the capstan step, and means for guiding the cord from the capstan step to the cord guiding and loading device, whereby cord fed from a point spaced above the upper end of the spindle shaft and coaxial therewith through the passageways in the twisting disc and the spindle shaft, around the capstan step as recited, to the guiding and loading device, and thence to the bobbin, in that order, is given a double twist when the spindle shaft is rotated and the cord is wound on the bobbin.

2,654,211

APPARATUS FOR AND METHOD OF CABLING THREADS

Henry C. Uhlig, Clifton, N. J., assignor, by mesne assignments, to Howe Twister Corporation, Jersey City, N. J., a corporation of New Jersey

Original application November 10, 1948, Serial No. 59,392. Divided and this application November 15, 1949, Serial No. 127,380
13 Claims. (Cl. 57—58.55)



11. The method of forming stranded cord from a plurality of yarns in one continuous operation comprising the following steps in the order named: feeding each of a plurality of yarns in the direction of its length from its separate source of supply, imposing a predetermined back tension on each such yarn, forming a balloon in each such yarn and separately twisting the yarns to form threads, gathering such threads into generally parallel relationship at a point beyond the balloon in each, forwarding such threads in such generally parallel relationship, twisting the thus fed gathered threads together to form a cord, during the last named twisting step forming a balloon in the cord, positively withdrawing the twisted cord from the last named balloon at a rate synchronized with the rate of twisting of the threads together, and yieldingly coiling such cord, the first twisting, the gathering, and the second twisting steps being performed with the material continuously in motion.

2,654,212

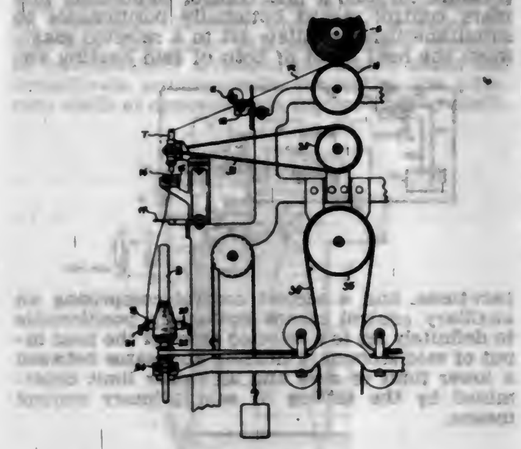
TWISTER HEAD DRIVING MECHANISM FOR WOOL SPINNING MACHINES

Francis B. Kelliher, Whitinsville, Mass., assignor to Whitin Machine Works, Whitinsville, Mass., a corporation of Massachusetts

Application October 4, 1951, Serial No. 249,655
2 Claims. (Cl. 57—93)

1. In a wool spinning machine, a plurality of spinning spindles, means to drive said spindles, a plurality of twister heads, a twister cylinder and shaft, driving connections between said cylinder and said twister heads, a power shaft, a variable-speed mechanism between said power

shaft and said cylinder shaft, and manual control means for said variable-speed mechanism ef-



fective to vary the twister head speed while the spindle speed remains unchanged.

2,654,213

UNIVERSAL WATCH SETTER

Fritz Galley, Le Locle, Switzerland, assignor to Fabrique d'Horlogerie CHS Tissot & Fils S. A., Le Locle, Switzerland, a firm of Switzerland

Application May 9, 1951, Serial No. 225,294
In Switzerland May 12, 1950
1 Claim. (Cl. 58—43)



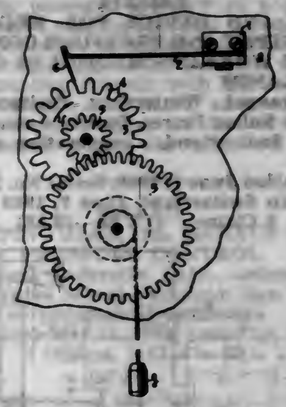
In a watch, the combination of time-indicating parts, a clockwork, a transmission operatively connecting the clockwork with said parts, a stationary dial cooperating with said parts, a rotary dial coaxial with the stationary dial, means controlled by the transmission for driving the rotary dial including a shiftable member adapted to be shifted with reference to the transmission to allow correction of the angular setting of the rotary dial, hand operable means including an arc-shaped pusher extending on more than 180° and provided with an extension intended to be manually operated, a lever arranged to simultaneously effect a movement of translation and of rotation, said lever being controlled by said pusher and one end of which being adapted to operatively engage the shiftable member and thus set the rotary dial and two registering annular scales carried respectively by the cooperating peripheries of the two dials and including respectively a subdivision in hours and a subdivision in time belts.

2,654,214

MECHANICAL MOTION REGULATOR FOR CLOCKWORKS, WATCH MOVEMENTS, AND THE LIKE

Hermann Steiger, Geneva, Switzerland

Application November 21, 1950, Serial No. 196,745
In Switzerland May 12, 1950
5 Claims. (Cl. 58—116)



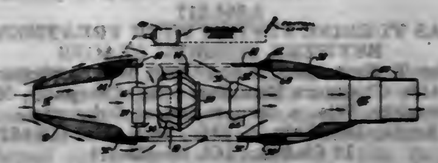
1. A mechanical motion regulator for clockworks, watch movements, and the like, comprising a mounting plate, a toothed escape wheel rotatably mounted on said plate, an oscillating leaf spring mounted on said plate, an elastic interposing member on the free end of said leaf spring, the elasticity of said interposing member being greater than that of the leaf spring, said leaf spring being positioned in spaced relation to the periphery of said escape wheel so that its free end can move toward and away from the periphery of the escape wheel and with the interposing member extending from the free end of the leaf spring partially into the space between the teeth on said escape wheel, and means for applying a torque to said escape wheel to effect rotation thereof in intermittent steps determined by the leaf spring and the interposing member carried by the same.

2,654,215

TURBINE POWER PLANT HAVING AUXILIARY AIR INLET AND THRUST AUGMENTER

Ransom S. Thompson, Middle Haddam, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application September 27, 1949, Serial No. 118,006
5 Claims. (Cl. 60—35.6)



1. In a jet propulsion unit for an airplane, a jet engine having an air intake forming a part thereof and a compressor receiving air from said inlet, a cowling surrounding said engine and forming a ram air duct forward thereof and providing a path conducting air to said intake, means for providing a second path of unrestricted airflow from outside said cowling into said air intake at low forward speeds of the airplane including mechanism for axially separating said

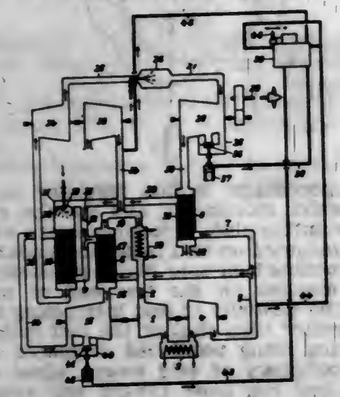
cowling and exposing said intake to the free airstream, an exhaust conduit for the engine, and cooperating mechanism carried by said cowling and the engine forming an ejector to withdraw air from the airstream and augment the stream issuing from said exhaust conduit.

2,654,216

METHOD AND DEVICE FOR REGULATING THE OUTPUT AND PRESSURE CONDITIONS OF THE WORKING MEDIUM IN GAS TURBINE PLANTS

Walter Traupel, Winterthur, Switzerland, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland, a corporation of Switzerland

Application June 1, 1950, Serial No. 165,457
In Switzerland June 8, 1949
8 Claims. (Cl. 60—39.03)



1. The method of regulating a gas turbine plant having an output turbine and two mechanically independent turbine driven compressors arranged in series with respect to the flow of operating medium therethrough, said method comprising automatically maintaining a predetermined compression pressure of one compressor and a predetermined ratio of the compression pressure of the high pressure compressor to that of the low pressure compressor, and increasing said predetermined pressure and ratio of pressures upon an increase of the output of the plant, and decreasing said predetermined pressure and said predetermined ratio of the compression pressure of the high pressure compressor to that of the low pressure compressor upon a decrease of the output of the plant.

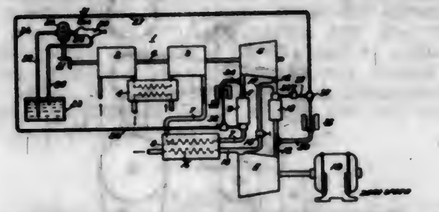
2,654,217

GAS TURBINE SYSTEM WITH TREATMENT BETWEEN TURBINE STAGES

John T. Rettaliata, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application July 15, 1944, Serial No. 545,057
10 Claims. (Cl. 60—39.17)

8. In a gas turbine power plant embodying a high pressure turbine and a low pressure useful power turbine operable at constant speed with varying load having separately rotatable driving shafts respectively, means connecting the exhaust of said high pressure turbine with the inlet of said low pressure turbine, a source of motive fluid for said turbines including a compressor driven by said high pressure turbine and a primary heating apparatus receiving motive fluid from said compressor, and a secondary heating apparatus for variably increasing the temperature of gas exhausted from said high pressure turbine, a first control comprising primary control means optionally positionable to simultaneously definitely set to a selected maximum the heat input of both of said heating ap-



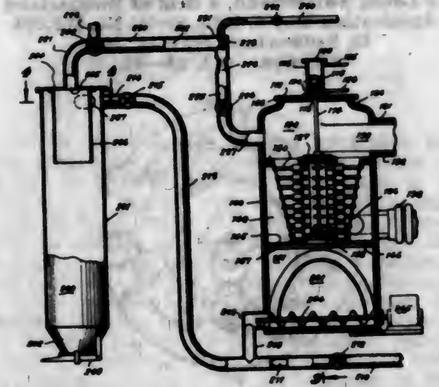
paratuses, and a second control comprising an auxiliary control means optionally positionable to definitely set to a selected amount the heat input of said secondary heating apparatus between a lower limit of zero and an upper limit determined by the setting of said primary control means.

2,654,218

ASH HANDLING SYSTEM FOR HIGH-PRESSURE COMBUSTION OF PULVERIZED SOLID FUELS

John I. Yellott, Cockeysville, Md., assignor to Bituminous Coal Research, Inc., Washington, D. C., a corporation of Delaware

Application June 3, 1948, Serial No. 30,816
5 Claims. (Cl. 60—39.46)



3. In a power plant for the pressurized combustion of pulverized fuel, in combination, a combustion chamber, a discharge line for the products of combustion, a first ash separator in said discharge line to remove the ash from the products of combustion, means for cooling said separated ash to remove the heat energy therefrom, means to return to the system the heat energy derived from the separated ash, said means including a second separator incorporating ash storage means and a cleaned air return line to the system.

2,654,219

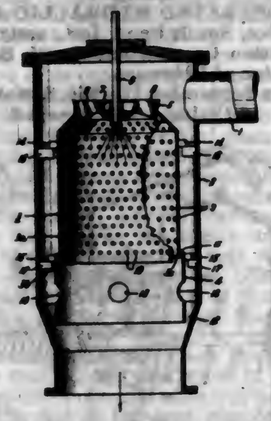
METAL COMBUSTION CHAMBER

Tadeusz Zaba, Wettingen, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland, a joint-stock company

Application August 23, 1951, Serial No. 244,047
In Switzerland September 4, 1950
6 Claims. (Cl. 60—39.65)

1. A metal combustion chamber for the production of hot gases; said chamber comprising an

outer wall providing a pressure-resistant casing having an inlet for air under pressure, an inner wall within and spaced from said casing wall by an interspace through which the pressure air may flow, said inner wall comprising a plurality of concentrically arranged perforated shells and imperforate annular walls connecting the adjacent shells at opposite ends thereof thereby limit-



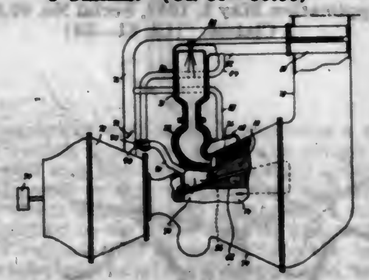
ing air flow in the space between said shells substantially to radial directions, the innermost of said perforated shells being open at the end opposite the air inlet to said casing, means for introducing fuel into said innermost perforated shell for combustion and means for introducing pressure air into the space between said casing and the outermost of said perforated shells.

2,654,220

APPARATUS FOR DIRECTING AIR TO COMBUSTION PRODUCTS TURBINES

Gustav Karl William Beestad and Erik Otto Eriksson, Lidingo, Sweden, assignors, by mesne assignments, to Jarvis C. Marble, Leslie M. Merrill, and Percy H. Batten, as trustees

Original application December 1, 1943, Serial No. 512,474, now Patent No. 2,637,514, dated November 3, 1949. Divided and this application February 25, 1949, Serial No. 78,262. In Sweden January 16, 1943
5 Claims. (Cl. 60—39.66)



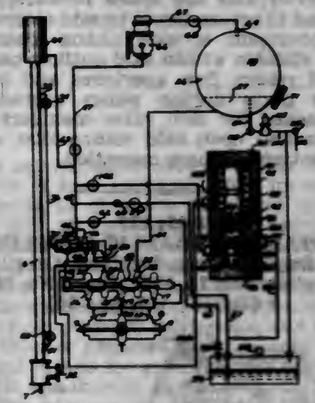
1. A gas turbine system comprising an elastic fluid gas turbine, said turbine comprising stator and rotor structures providing between them a channel for expansion of gaseous motive fluid, compressor means for compressing a gaseous constituent of said motive fluid, said rotor being provided with interior passages for flow of a gaseous cooling medium through the rotor, said passages having outlet means opening into said channel at a place spaced from the inlet end of the channel where the pressure of the motive fluid expanding in the channel is less than the pressure thereof at the inlet to the channel, main conduit means having heating means therein and connecting the discharge side of said compressor means with said inlet of the channel, secondary conduit means connecting the discharge side of said compressor means with said cooling passages for flow of a portion of the compressed gaseous medium through the rotor and discharge of substantially all of said portion through said outlet means to said channel for expansion therein with the motive fluid admitted through said inlet, and valve means for selectively controlling the flow of fluid from said compressor means through said secondary conduit.

2,654,221

PUMPING JACK OIL MAKEUP AND PRESSURE CONTROL

Fred H. Rued, Lafayette, Calif., assignor to The Pelton Water Wheel Company, San Francisco, Calif., a corporation of California

Application May 16, 1950, Serial No. 162,221
7 Claims. (Cl. 60—52)



7. A pumping jack oil make-up and pressure control comprising a jack cylinder, a piston reciprocable in said cylinder, means for supplying said cylinder with oil under pressure to reciprocate said piston cyclically, an oil make-up pump driven by said oil under pressure in time with the reciprocation of said piston, a source of oil, a conduit for conducting oil from said source of oil to said make-up pump, and a conduit for conducting oil from said make-up pump to said supplying means.

2,654,222

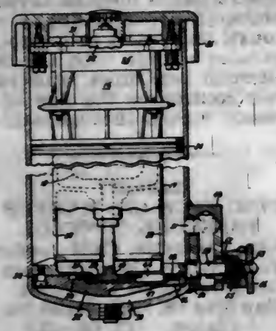
DRIVE UNIT FOR DOMESTIC IRONING MACHINES AND THE LIKE

James F. Young, Erie, Pa., assignor to General Electric Company, a corporation of New York

Original application December 22, 1949, Serial No. 134,473. Divided and this application June 16, 1951, Serial No. 232,032
4 Claims. (Cl. 60—53)

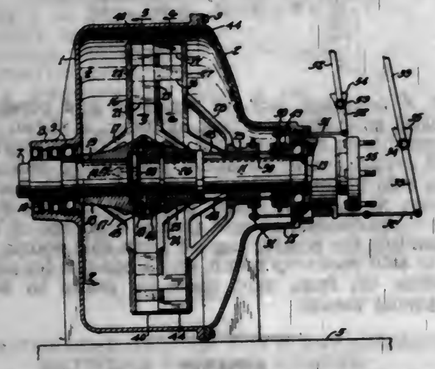
1. A power unit for an ironing machine or the like, comprising a cylinder and a combined piston and hydraulic pressure generation means therein, including a hollow piston structure having extending flange means providing a piston head and piston ring securement means, a pump disposed within said flange means, said flange means defining a chamber for said pump with

rectilinearly extending outflow passages, said passages having pump discharge ports extending through said piston head for discharging liquid forwardly of said piston head to propel the piston, means providing a reservoir of liquid within said cylinder to supply said pump, motor means within said cylinder to operate said pump, means defining normally open apertures through said flange means communicating directly between



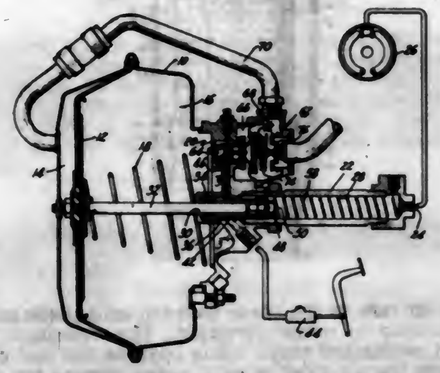
said reservoir and the space forwardly of said piston head to return liquid to said reservoir upon return movement of said piston means, valve members slidable within said outflow passages to close said return flow apertures and open said discharge ports during pump operation, and biasing means for said valve members to close said ports and open said return flow apertures upon cessation of pump operation.

2,654,223
ROTARY HYDRAULIC COUPLING
Eugene Wang, Portland, Oreg.
Application July 11, 1951, Serial No. 236,171
9 Claims. (Cl. 60—54)



1. A fluid coupling comprising a hollow housing, a pair of shafts extending coaxially through the housing for independent rotation, a plate mounted for rotation with one of said shafts, a second plate mounted for rotation with the second shaft and movable longitudinally with respect thereto, a third plate mounted intermediate the first and second plates for rotation with said second shaft, the said plates being coaxially aligned and extending radially around their respective shafts and each having fluid openings therein adjacent the shafts, vanes on the first plate extending toward the third plate, and vanes on the second plate displaced radially from said first vanes and extending slidably through complementary openings in the third plate for adjustable coplanar registration with said first vanes, the vanes on the second plate being of uniform cross section corresponding to the openings in the third plate for closing the openings in the third plate in all adjusted positions of said vanes.

2,654,224
POWER-OPERATED HYDRAULIC ACTUATOR
Earl R. Price, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application September 27, 1950, Serial No. 186,990
16 Claims. (Cl. 60—54.6)



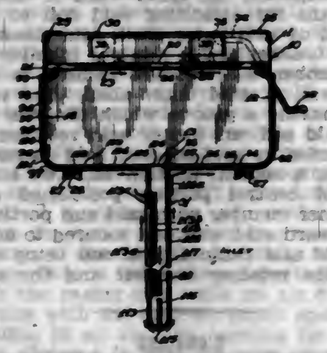
15. In a hydraulic pressure system, a hydraulic cylinder having a bore therein, a piston reciprocable in said bore and having an annular bearing on its outer periphery which permits the piston to wobble when moving in the bore, means connecting the piston to a power source, said piston having a valve port through which hydraulic fluid may flow, and a valve member carried by said means and adapted to effect closure of said opening during movement of said piston in a direction to displace fluid in said bore.

2,654,225
PORTABLE DITCH GATE
Harold A. Saunders and Carmen V. Saunders, Denver, Colo., assignors to Midstate Manufacturing Company, Denver, Colo., a corporation of Colorado
Application May 2, 1949, Serial No. 90,916
2 Claims. (Cl. 61—29)



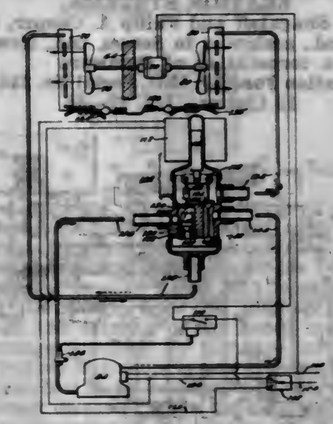
1. In a portable ditch gate, a structure for placing across the ditch above the bottom thereof and resting on the opposite banks and for supporting a sheet of flexible material so that it can extend downwardly into an engageable relation with the bottom of the ditch and thus establish the gate and for also adjusting the height of the sheet, said structure comprising two rod-like elongated members to which the sheet of material is to be connected, means carried by the elongated members for attaching a marginal portion of the sheet thereto, means for hinging ends of the members together, the length of the members being such that when the members extend in opposite directions from the hinging means they can rest on the ditch banks, a post extending from the hinge connection so that it will extend upwardly when the members rest on the ditch bank and will be positioned adjacent the elongated members as they are swung toward each other, adjusting links, means for pivotally connecting ends of the links together in a permanent relation, means for pivotally connecting the other end of each link to a separate elongated member intermediate the ends thereof, and means for connecting the ends of the links which are pivotally connected together to the post at any of variously spaced points from the end at the hinge means, said links being of such length and said ends of the links which are pivoted together being capable of such movement and the ends of the elongated members being so hinged together that the elongated members can be caused to assume substantially parallel relation when the gate is to be stored or transported and when in such relation the pivotally connected ends will be in spaced relation to the end of the post remote from the hinge means.

2,654,226
AUTOMATIC DEFROSTING EVAPORATOR
Thomas W. Duncan and Albert C. Rosencrans, Evansville, Ind., assignors to Seeger Refrigerator Company, St. Paul, Minn., a corporation of Minnesota
Application August 18, 1951, Serial No. 242,462
7 Claims. (Cl. 62—3)



1. A defrosting evaporator comprising a metal housing having a pair of side walls joined by a bottom wall and provided with a shelf extending from side wall to side wall, a rear wall closing the rear space between said side walls, a suction header carried by an upper part of one wall and having a suction tube extending into the header with the tube inlet adjacent the top of said header, sinuous tubing carried by the bottom of said shelf and extending sinuously down both side walls and across the bottom of said bottom wall, an inlet tube communicating with the sinuous tubing at a point remote from said header to cause the refrigerant to be supplied through two paths in parallel leading to said header, and outlets from said sinuous tubing communicating with both ends of the lower part of said header, said tubing also including a depending U-shaped portion having a pair of legs extending downward from said bottom wall, and an elongated metal enclosed electric heater engaging one of said legs and causing the heating and upward boiling of refrigerant in said latter leg, to circulate heated refrigerant through said tubing and header to defrost said evaporator.

2,654,227
ROOM COOLING AND HEATING SYSTEM
Glenn Muffly, Springfield, Ohio
Application August 20, 1948, Serial No. 45,243
21 Claims. (Cl. 62—3)



2. In a refrigerating system of the reversible type, a pair of heat exchange units including one which serves to dissipate heat and one which serves to pick up heat, a pressure imposing element adapted to circulate a volatile refrigerant through the system, means forming a pair of conduits each of which is connected with one of said heat exchange units, one of said conduits carrying warm high pressure refrigerant and the other carrying the low pressure vapor of said refrigerant, control means for reversing the operation of said system and thereby exchanging the functions of said heat exchangers and those of said conduits, an auxiliary motor associated with said system to operate a fluid circulating device, switch means for starting said motor, and temperature responsive means for actuating said switch, said temperature responsive means being actuated by a change of temperature related at one time to one of said conduits and at another time to the other of said conduits.

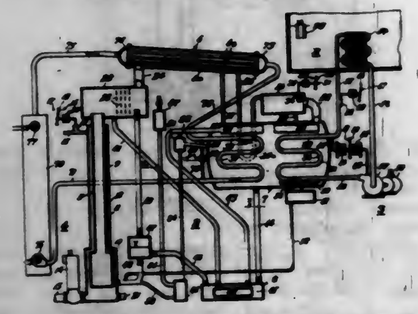
2,654,228
DEVICE FOR FREEZING AND DISPENSING ICE CUBES
Robert W. Templar, West Sacramento, Calif.
Application December 3, 1951, Serial No. 259,555
4 Claims. (Cl. 62—4)



1. An apparatus for freezing and dispensing ice cubes comprising a stationary horizontally disposed tray adapted to receive a freezable liquid, cooling means adjacent the tray for freezing the liquid therein, an endless conveyor having a lower

flight overlying the tray, longitudinally spaced fingers carried by the conveyor, the fingers on the lower flight of said conveyor depending into said tray, whereby ice formed between adjacent fingers on said lower flight will be urged from the tray during rotation of said conveyor, and a timer mechanism operatively connected to said conveyor and the cooling means for moving the conveyor after defrosting of the cooling means.

2,654,229
CONTROL FOR ABSORPTION REFRIGERATION SYSTEMS
Harry C. Shagaloff and Philip A. Cooper, Evansville, Ind., assignors to Servel, Inc., New York, N. Y., a corporation of Delaware
Application June 30, 1951, Serial No. 234,522
15 Claims. (Cl. 62—5)



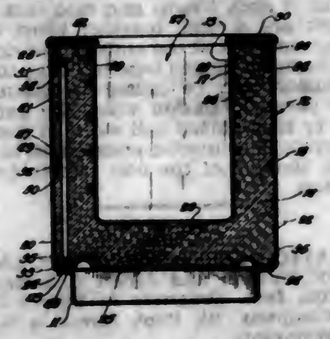
1. In an air conditioner, a vacuum type absorption refrigeration system utilizing water as a refrigerant and having an evaporator and absorber, an auxiliary cooling system for circulating a cooling medium in heat exchange with the evaporator and ambient to be cooled, a second auxiliary cooling system for flowing a cooling medium in heat exchange with the absorber, and control means for delaying operation of the refrigeration system until the evaporator is externally loaded by the flow of cooling medium in heat exchange therewith and delaying the operation of the second auxiliary cooling system to flow cooling medium in heat exchange with the absorber until the evaporator is internally loaded with refrigerant to prevent the refrigerant from freezing.

2,654,230
EXPANSIBLE GRID FOR ICE TRAYS
Richard M. Sterer, Denver, Colo.
Application June 6, 1949, Serial No. 97,335
9 Claims. (Cl. 62—108.5)



1. An ice tray grid, comprising a lengthwise wall member and a series of double-section cross wall members extending laterally from the lengthwise walls at spaced intervals along the same and defining a plurality of ice-block forming sections on opposite sides of the grid, said lengthwise member comprising a central portion, and an exterior covering section for opposite sides of said central portion in integral connection with the sections of the cross walls, a lever pivoted on said lengthwise member and having a link pivotally connected to said covering portions so as to move the covering portions lengthwise of the grid, means for holding said covering portions in fixed relation to said central portion at a point adjacent the end of the grid remote from its lever-supporting end, and movement-arresting means carried on said central portion and connected with said covering portions for limiting the expansive movement of each ice block-forming section.

2,654,231
REFRIGERATING COIL MOUNTING IN CABINET
Robert L. Eichhorn, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application July 15, 1950, Serial No. 174,030
7 Claims. (Cl. 62—116)



1. In a refrigerator cabinet, an inner liner spaced within an outer shell, a condenser coil disposed adjacent the inner walls of said outer shell, means for attaching said coil to an exposed wall of said outer shell, said means comprising a bracket and a retainer member and a clamp member, said bracket secured to an unexposed wall of said outer shell, said retainer member having a groove which fits over a portion of said coil, an end of said retainer member supported by said bracket, said clamp member having a central portion and two end portions, said central portion positioned against said retainer member with said end portions deflected toward said wall and secured to adjacent portions of said cabinet, said coil being secured between the retainer member and the exposed wall.

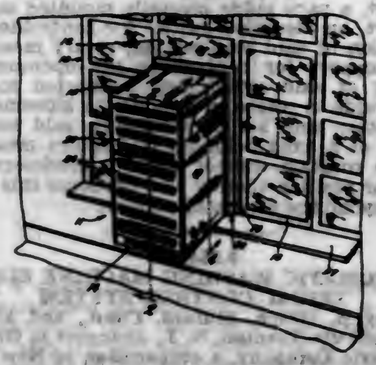
2,654,232
AIR CONDITIONING APPARATUS
Joseph A. Galanti, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application August 5, 1950, Serial No. 177,919
10 Claims. (Cl. 62—140)



1. In an air conditioning unit for controlling the moisture content of air within an enclosure,

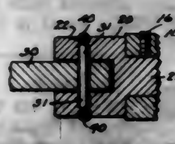
refrigerant evaporating means, refrigerant condensing means, means for circulating part of the air into contact with said refrigerant evaporating means and part of the air into contact with said refrigerant condensing means, means for collecting the moisture which condenses from the air which passes over said refrigerant evaporating means, and means for spraying water over the surfaces of said refrigerant evaporating means and said refrigerant condensing means.

2,654,233
AIR CONDITIONING UNIT FOR CASEMENT WINDOWS
Dwight L. Shoemaker, Cincinnati, Ohio
Application May 31, 1951, Serial No. 229,043
5 Claims. (Cl. 62—140)



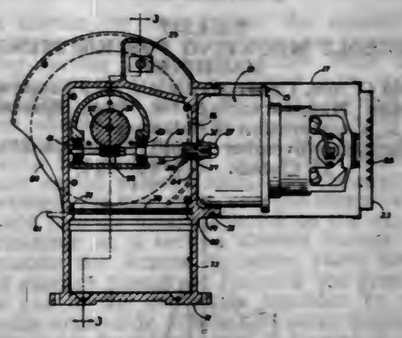
1. In a self-contained air conditioning unit to be mounted in a casement window the combination of a closed casing structure having a heightwise dimension substantially greater than its width, a vertical partition dividing the casing into a front and a rear compartment, a horizontal partition disposed across the back portion of the rear compartment and dividing said compartment into an upper and a lower section communicating with each other forwardly of the said partition, a fan drive motor positioned in the lower section of the rear compartment and having one end of its rotor shaft extending through the vertical partition, an air outlet opening formed in the major portion of the front wall of the casing, a downwardly inclined, rearwardly extending plate in the front compartment forming with the casing side walls an air duct communicating with the said air outlet opening and terminating in an air inlet opening for a fan, a first fan disposed in said air inlet opening and secured to the said end of the fan rotor shaft, an evaporator disposed within the duct adjacent the opening in the front casing wall, an air intake opening formed in a side of the front compartment rearwardly of the duct, said air inlet opening for the fan being connected to said intake opening in the side of the compartment, a compressor and a condenser connected in the evaporator circuit, said compressor being mounted upon the horizontal partition and disposed within the upper section of the rear compartment, an air inlet opening formed in the rear wall of the casing and communicating with the upper section of the rear compartment, an air outlet opening formed in the rear wall of the housing and communicating with the lower section of the rear compartment, the condenser being disposed within the lower section adjacent said opening, a second fan mounted on the rear end of the said fan rotor shaft and disposed in front of the condenser, said fan being adapted to draw air through the first mentioned opening in the rear casing wall and across the compressor and to force said air through the condenser and out through the second mentioned opening in the rear casing wall.

2,654,234
COUPLING
Niels A. Christensen, South Euclid, Ohio
Application April 15, 1950, Serial No. 156,216
3 Claims. (Cl. 64—6)



1. In a coupling, the combination of a pair of forked heads facing each other and each provided with means for securing it to a shaft, a connecting member entering the forks in the two heads, pins mounted in said heads and loosely passing through the heads and the member, annular grooves in the exterior of the heads intersecting the openings occupied by the pins and toroidal endless rubber-like rings in said grooves, each ring being stretched in its respective groove and having an inner diameter when unstretched less than the inner diameter of the groove across the head to hold the pins in place.

2,654,235
FLEXIBLE SHAFT COUPLING
Eric C. Wahlberg, Stamford, Conn., assignor to Electrolux Corporation, Old Greenwich, Conn., a corporation of Delaware
Application August 26, 1948, Serial No. 46,306
2 Claims. (Cl. 64—14)



1. The combination of a power transmitting shaft and a motor shaft having interfitting end portions, compressible means between said end portions, a sleeve encircling said compressible means and said end portions and limiting lateral displacement of the parts, a motor for driving said motor shaft, supporting means for said motor comprising portions spaced apart a distance greater than the dimension of the motor, means securing said motor between said spaced portions so that it may be held loosely and thereafter secured tightly in position, the construction and arrangement of parts when assembled being such that when said motor is operated while held

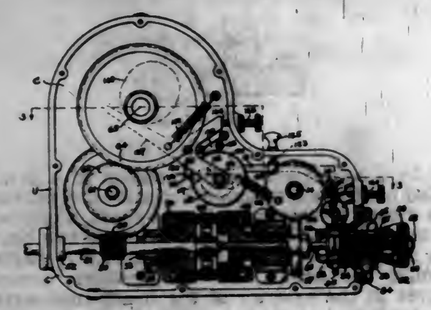
loosely said shafts will center themselves and can be secured in centered position by tightening the mounting of said motor.

2,654,236

POSITIVE AND CONSTANT-TENSION WEB LETOFF MECHANISM FOR TEXTILE MACHINES

George E. Clentimack, Plainville, Mass., assignor to Whitin Machine Works, Whitinsville, Mass., a corporation of Massachusetts

Application April 4, 1951, Serial No. 219,272
11 Claims. (Cl. 66—86)



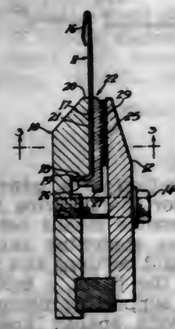
1. A let-off mechanism for a textile machine having a rotated yarn supply comprising a driven shaft, speed-reducing connections between said shaft and said rotating yarn supply, a continuously rotated drying shaft, a clutch member thereon, an opposed stationary brake member, a runner connected to said driven shaft and positioned between said rotating clutch member and said stationary brake member, said shafts and associated parts being immersed in transmission oil, and said runner and driven shaft being rotated by the excess of the oil-transmitted pull of the clutch member over the oil-transmitted drag of the brake member.

2,654,237

NEEDLE MOUNTING FOR KNITTING MACHINES

Harold C. Noe, Upper Montclair, N. J., assignor to Kidde Manufacturing Co., Inc., Bloomfield, N. J., a corporation of Delaware

Application November 1, 1951, Serial No. 254,304
15 Claims. (Cl. 66—114)



1. A knitting element assembly of the class described consisting of a member formed with L-shaped grooves on the surface thereof, and a plurality of butted knitting elements each having a shank portion and a butt portion removably embedded in one of said grooves of said member.

2,654,238

ELECTRICAL STOP MOTION FOR KNITTING MACHINES

William Oscar Heyne, Epsom, England, assignor of one-half to T. J. Brooks (Autes) Limited, Leicester, England, a British company

Application September 16, 1950, Serial No. 185,227
In Great Britain September 28, 1949
12 Claims. (Cl. 66—163)



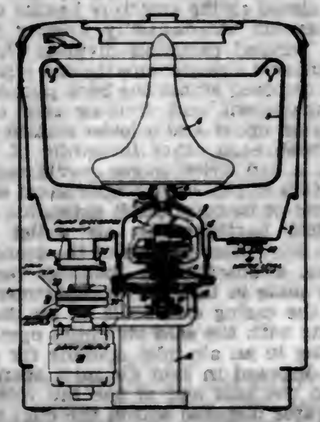
1. In or for the electrical stop motion of a knitting machine, a control device responsive to the tension of running yarn and comprising a support, a yarn guide pivotally mounted on said support, an electrical switch for controlling the operation of said stop motion, rotary means on said support for controlling the opening and closing of said switch and connected to said yarn guide to rotate in response to movement of the latter, and spring means on said support acting at a fixed point on said rotary means to oppose rotation thereof up to a predetermined angular position thereof and reinforce this rotation beyond the aforesaid position.

2,654,239

AUTOMATIC WASHING MACHINE ELECTRICAL CONTROL SYSTEM

Stanley B. Welch, Milford, Conn., and Eugene G. Olthuis, Trenton, N. J., assignors to General Electric Company, a corporation of New York

Application April 24, 1951, Serial No. 222,688
12 Claims. (Cl. 68—12)



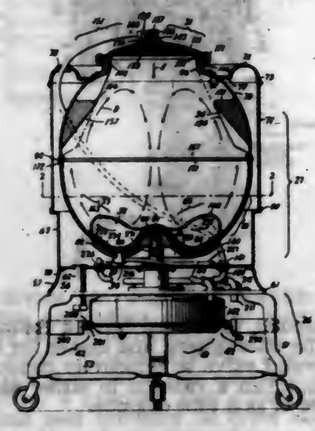
10. In an automatic washing machine, mechanism for performing washing operations, a valve for supplying water to the machine, a drive motor for operating said mechanism, electromagnetic means for operating said valve, a timer motor, said drive motor, timer motor and electromagnetic means having relative impedances such that when the electromagnetic means is connected in series circuit with parallel circuits through the drive motor and the timer motor only the electromagnetic means is operated and when the electromagnetic means is connected in series circuit with the timer motor only the timer motor is operated, and means including switches operated by the timer motor for effecting such circuit connections during automatic operation of the washing machine.

2,654,240

WASHING AND EXTRACTING MACHINE HAVING A FLEXIBLE DIAPHRAGM

George C. Graham, Ridgewood, N. J., assignor, by mesne assignments, to Graham & Barker, Ridgewood, N. J., a limited partnership

Original application November 30, 1939, Serial No. 306,797. Divided and this application March 2, 1946, Serial No. 651,496
22 Claims. (Cl. 68—21)



1. In a washing machine, a tub, a diaphragm support disposed peripherally of the tub, a flexible diaphragm held peripherally between said support and the tub and extending in one direction axially of the tub from said support, and means for flexing the diaphragm in the opposite direction across the position of the support and causing it to cooperate with said support in effecting a sealing action.

2,654,241

LATCH MECHANISM FOR DISAPPEARING WARDROBE DOORS

Joseph F. Schaefer, Bay Village, Ohio, assignor to The Interior Steel Equipment Company, Cleveland, Ohio, a corporation of Ohio

Application March 25, 1950, Serial No. 151,835
3 Claims. (Cl. 70—264)



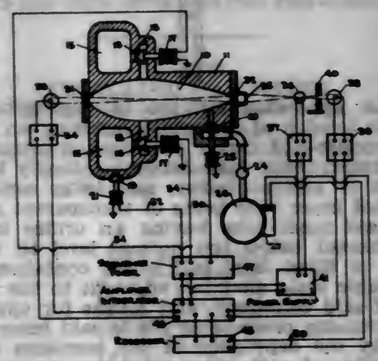
1. Latch mechanism adapted to be applied to a door frame and a row of paired doors mounted for swinging movement of the adjacent free edges of each pair of doors to open and closed positions, comprising a holding member for each door of said row, a locking member for each pair of said doors, a rockshaft for mounting on said door frame inwardly of said row of doors and forming a common actuator for said holding members and said locking members, said holding members being movable to an effective position for engaging and holding said doors in the open position by rocking of said shaft in one direction and said locking members being movable to an effective position for engaging and locking said doors in the closed position by rocking of said shaft in the opposite direction, and means for imparting rocking movement to said shaft for moving said holding and locking members into and out of their effective positions.

2,654,242

MEASUREMENT OF WATER VAPOR IN GASES

Marvin B. Fallgatter, Piedmont, and Kauko E. Hallikainen, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application July 7, 1950, Serial No. 172,444
4 Claims. (Cl. 73—29)



1. A system for determining the amount of water vapor in a gas comprising an expansion chamber having streamlined inner walls of a generally tear-drop shape, valved inlet means for admitting a gas under pressure into said expansion chamber, an annular surge chamber surrounding said expansion chamber, valved outlet means for exhausting said surge chamber, normally closed passage means in communication between the expansion and the surge chambers, said passage means opening to the expansion chamber at a section thereof having approximately the largest diameter, valve means in said passage means for reducing the pressure of the gas in the expansion chamber by adiabatically expanding it into the surge chamber, whereby a condensation cloud is formed in said expansion chamber by the attendant cooling of the gas to a temperature below the dew point, light-train means comprising light-source and light-sensitive means arranged exteriorly of said expansion chamber and fluid tight translucent windows formed in the walls of said expansion chamber, said light-train means being disposed to pass a light beam from said light source to said light-sensitive means through the gas gas within the expansion chamber, and means energised by said light-sensitive means for indicating the effect of the cloud formed in said expansion chamber on the intensity of said light beam.

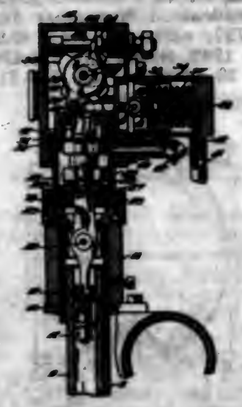
2,654,243
APPARATUS FOR USE IN MEASURING SURFACE TENSION
Norman B. Colthup, Stamford, and Robert E. Terley, Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application September 16, 1950, Serial No. 185,284
3 Claims. (Cl. 73—63)



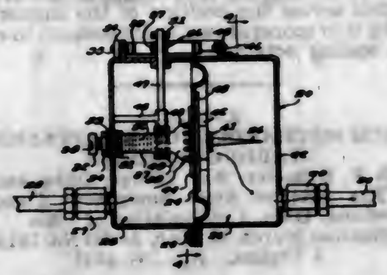
1. An apparatus for use in measuring the surface tension of a liquid comprising an elongated, close-end liquid container, a concentric open-ended inner tube extending nearly to the bottom of said container, said outer container and said inner tube being of transparent material, said inner tube having an orifice in the side thereof below the normal level to which liquid is filled into said outer container, an adjustable scale mounted adjacent to the lower end of said container, and means for applying an increasing pressure of gas to said inner tube whereby the depression of the meniscus below the orifice of said inner tube may be read on said scale at the moment bubbles emerge from said orifice.

2,654,244
REBOUND HARDNESS MEASURING DEVICE
Murray Douglas Braid, Painesville, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corperation of Ohio
Application December 6, 1949, Serial No. 131,317
5 Claims. (Cl. 73—79)

1. In a hardness testing instrument including a tube chamber, a tube leading therefrom, a hammer guided within said tube to drop therealong onto the material to be tested, means within said chamber operable to hold said hammer in an elevated position in said tube, a suction outlet for said chamber for applying suction therein and raising said hammer along said tube in position to be engaged by said holding means, a valve closing said tube chamber and movable into position to admit air therein, means movable with said valve for releasing said holding means upon opening of said valve, a rotatable cam operable to move said valve to an open position, spring means moving said valve to a closed position, the improvements comprising a suction cylinder, a piston therein, a connection between said piston and cam moving said cam into position to open said valve and release said hammer upon the creation of suction within said cylinder, spring means engaging said piston and moving said cam into position to allow closing of said valve, a vacuum pump, a second valve, a suction line connecting said pump with said second valve, separate suction lines connecting said second valve with said cylinder and said tube chamber, said second valve also having communication with the atmosphere, and means for operating said second valve to selectively connect said pump to establish a vacuum in either said suction cylinder or said tube chamber.

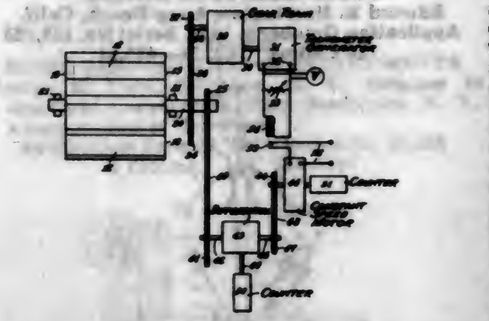


2,654,245
GASOLINE FLOWMETER
Albert E. Hill, Tulsa, Okla.
Application October 10, 1950, Serial No. 189,449
4 Claims. (Cl. 73—210)



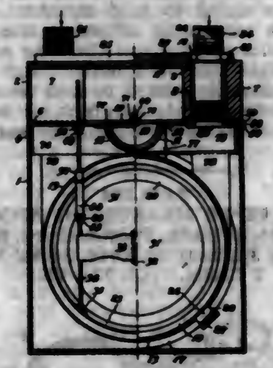
1. In a flow meter, a housing, apertured diaphragm arranged in said housing and defining a first and second compartment, a pipe connected to said first compartment for conveying fuel thereto, a pipe communicating with said second compartment for conveying fuel therefrom, an electrically actuated gauge for indicating the rate of flow of fuel through said pipes, and means responsive to movement of said diaphragm for actuating said gauge, said means comprising a hollow sleeve connected to said diaphragm, a rod extending through said sleeve and having a tapered end projecting through said first compartment, said sleeve and said diaphragm, there being a plurality of spaced openings arranged in said sleeve, a rheostat arranged exteriorly of said housing, a shaft rotatably projecting through said first compartment, a wiper arm mounted on the outer end of said shaft for engaging said rheostat, and gear means connecting the inner end of said shaft to said sleeve, an end of said rod being fixed to the housing whereby relative movement between the tapered end of the rod and the diaphragm permits flow from the first to the second compartment.

2,654,246
FLOWMETER
Julius H. Pfau, Yonkers, N. Y., assignor to Alexander Smith, Incorporated, a corporation of New York
Application May 9, 1950, Serial No. 160,977
5 Claims. (Cl. 73—217)



5. A device for weighing flowable material, comprising an endless conveyor having pockets to receive said material and adapted to be driven by the weight of the material thereon, means feeding said material to said conveyor, a constant speed drive, a counter, and differential means connecting said conveyor to drive said counter to indicate the extent of travel thereof and connecting said constant speed drive to drive said counter in the reverse direction.

2,654,247
GAS METER
Robert Newton, East Melbourne, Victoria, Australia
Application April 12, 1946, Serial No. 661,851
In Australia May 3, 1945
9 Claims. (Cl. 73—272)



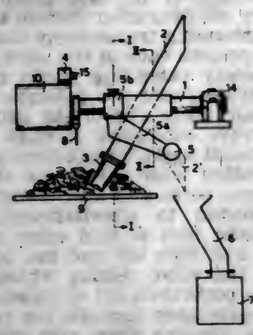
1. In a dry gas meter having at least one gas compartment with a diaphragm extending thereacross to divide the gas compartment into two separate gas chambers; the combination of a valve plate, a trough-shaped valve seating for each gas compartment mounted on said valve plate, said trough-shaped valve seating having two pairs of transversely arranged end gas ports and a pair of transversely arranged transfer ports disposed intermediate said pairs of end gas ports, an inlet gas conduit communicating with one of the end gas ports of each of said two pairs at one side of said valve seating, an outlet gas conduit communicating with the one of said pair of transfer ports at the other side of said valve seating, a first gas duct extending from the other end gas port of one of said pairs of end gas ports to one of the separate gas chambers, a second gas duct extending from the other end gas port of the other of said pairs of end gas ports to the other of the separate gas chambers, and a valve cover slidable longitudinally on said seating and of complementary configuration thereto and having two gasways extending transversely therethrough adjacent the opposite ends of the valve cover and a transfer gasway extending partly across said valve cover between said two gasways and opening towards said other side of the valve seating, said two gasways extending through the valve cover being spaced apart longitudinally for alternative registration with either one of said two pairs of end gas ports and said transfer gasway being dimensioned to simultaneously register with the transfer port at said other side of the valve seating and with the end gas port at said other side of the valve seating which is of the pair of end gas ports then out of registration with said gasways extending through the valve cover, so that gas is directed from said inlet conduit through said valve cover and into one of the gas chambers and out of the other gas chamber through the valve cover and into said outlet conduit.

2,654,248
LUBRICATED GAS METER
Robert Newton, East Melbourne, Victoria, Australia
Application December 23, 1947, Serial No. 793,471
In Australia January 20, 1947
15 Claims. (Cl. 73—274)



1. In a dry gas meter having a casing, a valve plate within said casing and valve gratings on the valve plate; means for reducing the friction of the operating parts including a reservoir located about the valve gratings on the valve plate, means for feeding lubricant to the reservoir from the outside of the meter casing, overflow means communicating with said reservoir and opening upwardly at one end at a predetermined level above the surface of said gratings to discharge lubricant from said reservoir to the outside of said casing when the lubricant reaches above said predetermined level whereby the level of the lubricant in the reservoir may be maintained at a suitable height to ensure that there is an adequate supply of lubricant to the bearing surfaces of the gratings, and valve covers on the valve gratings, said valve covers completely surrounding the ports in the valve gratings at all positions of the travel of the valve covers so as to prevent escape of lubricant through the grating ports.

2,654,249
SAMPLING APPARATUS
Jan Visman, Brunssum, Netherlands, assignor to De Directie van de Staatsmijnen in Limburg, Heerlen, Netherlands
Application October 3, 1950, Serial No. 188,159
In the Netherlands October 12, 1949
7 Claims. (Cl. 73—424)



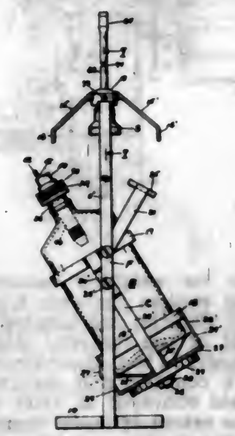
1. A sampling apparatus for obtaining a multiplicity of small samples from the interior of a moving stream of heterogeneous material comprising in combination a sample collecting tube with an end wall having an orifice therein at one end thereof, means for rotating said sample collecting tube in an arcuate path through the stream of material, said tube having its wall adjacent the front of the orifice bulged out into a nose-like projection to prevent material entering said orifice when the sample collecting tube initially enters the stream of material.

2,654,250
LIQUID SAMPLING APPARATUS
Edward Richard Harrington, Long Beach, Calif.
Application July 6, 1950, Serial No. 172,260
4 Claims. (Cl. 73—425.4)



1. Liquid sampling apparatus for use with an open top sample receptacle, comprising: a cap securable upon the top of said receptacle; a vertical tube depending from said cap, said tube being formed with an inlet at its upper portion and an outlet at its lower end and having an opening formed in its side wall at its lower portion; a coaxial sleeve member rotatably mounted upon the lower end of said tube, a side wall of said sleeve member being formed with an aperture which may be brought into a desired degree of registry with said opening by rotation of said sleeve member; and an air vent formed at the upper portion of said tube.

2,654,251
FLUID SAMPLING DEVICE
Edward R. Harrington, Long Beach, Calif.
Application October 9, 1950, Serial No. 189,223
16 Claims. (Cl. 73—425.4)



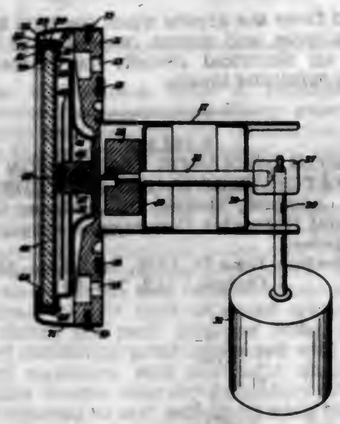
1. A sampling device which includes: a frame; a cradle pivotally supported in said frame, with said cradle supporting a sample bottle within the confines thereof; a stopper for sealing the mouth of said bottle; a rod that is supported for longitudinal movement on said frame and supports said stopper on the lower end thereof; means to maintain said stopper and rod in a position whereby said bottle is sealed until said rod is subjected to a sudden impulse; a tubular member positioned in the neck of said bottle; an air vent tube situated in said member; a tapered orifice piece removably affixed to the lower end of said member to control the flow of the fluid being sampled into said bottle; and an orifice member removably affixed to said vent pipe outlet to regulate the rate at which air is displaced from said sample bottle during the sampling operation.

2,654,252
MULTIPLE MEASURING SPOON
Ralph B. Davis, Prestonsburg, Ky.
Application January 10, 1949, Serial No. 70,100
1 Claim. (Cl. 73—426)



A measuring spoon comprising a shank having at one end a spoon bowl of substantially uniform thickness having a circularly shaped rim, one side of said spoon bowl having a concave surface extending from said rim with a convex protuberance thereon having a portion of its periphery coincident with said rim diametrically opposite said shank so the intersection of said protuberance with said surface at said coincident portion merges with said rim, said protuberance having a circular edge in a plane forming an acute angle with a plane including the rim of the spoon bowl whereby the edge of the protuberance may be drawn along the side of a container, said one side of the bowl having a predetermined volume to said rim, said protuberance having a predetermined fraction of said predetermined volume.

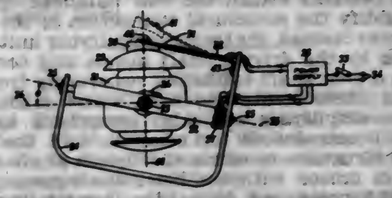
2,654,253
BEZEL FOR INDICATING INSTRUMENTS
George E. Ford, Brighton, N. Y., assignor to Qualitrol Corporation, East Rochester, N. Y., a corporation of New York
Application June 29, 1948, Serial No. 35,255
3 Claims. (Cl. 73—431)



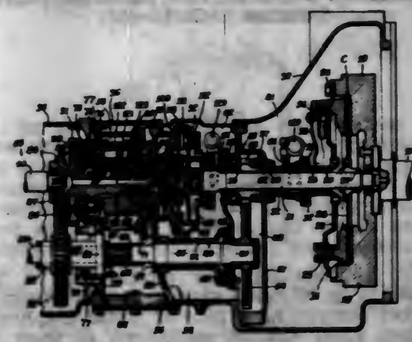
1. An indicating instrument comprising a mounting plate having a general plane and having a peripheral surface approximately perpendicular to said general plane, a transparent plate located forwardly of and approximately parallel to the general plane of said mounting plate, a bezel of sheet material formed to provide a main outer flange embracing said peripheral surface of said mounting plate and extending forwardly therefrom, said sheet material being bent inwardly at the front of said main outer flange to provide a front face flange overlying and spaced forwardly from the marginal portion of said transparent plate and being folded sharply upon itself at the inner edge of said front flange and extending thence outwardly in a second layer lying between and approximately parallel to said front face flange and said transparent plate, said sheet material being further bent rearwardly at the outer edge of said second layer to provide a marginal flange surrounding the periphery of said transparent plate, and an instrument case of sheet material separate from said mounting plate and having a rear wall lying in front of said mounting plate and a forwardly projecting annular marginal flange embracing the outer edge of said transparent plate and engaged tightly within said marginal flange of said bezel.

2,654,254
CAGING DEVICE FOR GYROSCOPES
Harry C. Wendt, Lynnfield, Mass., assignor to General Electric Company, a corporation of New York
Application July 20, 1949, Serial No. 105,769
12 Claims. (Cl. 74—5.1)

1. A gyroscopic instrument comprising a gyro rotor frame having a substantially spherical caging surface thereon, a gyro rotor journalled in said frame for rotation in relation to said frame and caging surface, means for rotating said rotor, an inner gimbal supporting said frame for movement about two axes, an outer gimbal supporting said inner gimbal, a holding member for contacting said frame caging surface in a holding engagement, means mounting said holding member on said outer gimbal structure out of engagement with said caging surface, and means for actuating said holding member into holding engagement with said frame caging surface.



2,654,255
TRACTOR BODY FRAME WITH SUPPLEMENTARY POWER TRANSMITTING AND DIVIDING APPARATUS
Henry A. Ferguson, Lombard, and Ralph C. Boyle and Edmund Jedrzykowski, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application August 31, 1951, Serial No. 244,676
11 Claims. (Cl. 74—15.63)



1. In a tractor power transmitting and dividing apparatus, a tractor body frame having a front frame casing and a rear frame casing separably connected together at a forward end of the rear casing and at a rear end of the front casing, the front casing being compartmented and having a forward hollow transverse bulkhead separating a forward compartment from a central compartment, the front casing also having a rear bulkhead separating the central compartment from a rear compartment, the forward bulkhead having forward and rearward walls containing axially aligned openings in upper portions thereof, the rear bulkhead having an opening axially aligned with the aforesaid openings, a bracing wall extending between the bulkheads and embracing a shaft-receiving channel communicating between the rear compartment and the hollow bulkhead, said channel being communicatively isolated from the central compartment, driving shaft means extending from the forward compartment through the axially aligned openings, a gear mounted on said shaft means and constrained for rotation therewith in the hollow bulkhead, a power-take-off shaft extending rearwardly from the interior of the hollow

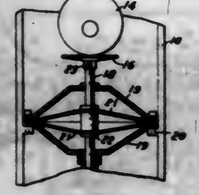
bulkhead through said channel and the rear bulkhead into the rear frame casing, a gear on the forward end of the power-take-off shaft and meshed with the first-named gear, a torque-amplifying unit casing mounted on the front end of the rear frame casing and projecting in piloted relation within the rear bulkhead opening to rigidify the structural connection of the front and rear casings, the torque-amplifying unit being driven by the driving shaft means and comprising a driven shaft extending rearwardly from the casing thereof into the rear frame casing, the torque-amplifying unit also comprising an element constrainable for rotation with the drive shaft structure to cause the driven shaft to rotate in unison with the drive shaft means, said element projecting forwardly through the rear bulkhead opening into the central compartment, clutch means within the central compartment selectively engageable to constrain the element to rotate with the drive shaft means or disengageable to cause speed reduction drive of said driven shaft from the drive shaft means, and sealing means in the bulkhead openings to resist migration of lubricant from the interior of the hollow bulkhead and from the torque-amplifying unit casing into the central compartment.

2,654,256

DIAPHRAGM SPRING RECIPROCATING TOOL

Ian C. McKechnie, Detroit, Mich., assignor to Elox Corporation of Michigan, a corporation of Michigan

Application August 23, 1950, Serial No. 181,054
3 Claims. (Cl. 74—55)



3. In a vibrating tool mechanism, a tool adapted to be vibrated axially, means mounting said tool comprising a pair of metal diaphragm members fixed against movement at their peripheral portions, said members having aligned axial apertures for receiving said tool, means carried by said tool for spacing said members apart at their central portions and for fixing said tool against axial movement relatively to said members.

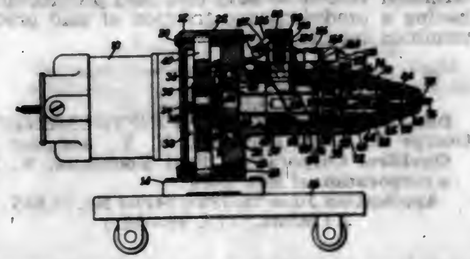
2,654,257

ELECTRICALLY POWERED BLIND RIVETING TOOL

James Norman Henshaw, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application December 30, 1950, Serial No. 203,610
In Great Britain February 8, 1950
1 Claim. (Cl. 74—57)

A power unit for driving reciprocable remote mechanism of a manually movable tool, including a cable connected to said mechanism, and normally fixed power means for shifting said cable to operate said mechanism, said means comprising a motor, a rotary cam connected to said cable and driven by the motor, said cam having a peripheral groove extending with increasing depth through 360° of rotation and between axial extremes spaced to correspond with 180° of rotation, a member mounted on the power means and engageable with the cam groove to move the cam back and forth axially, means associated with the power means for retaining the member dis-



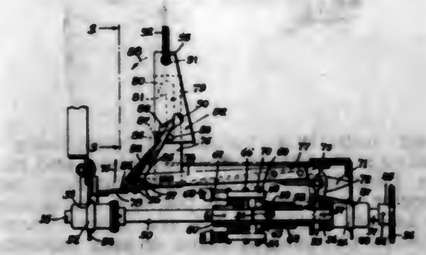
engaged from the groove when the cam has completed a cycle, and means, responsive to the closing of an electrical circuit, for releasing said member retaining means.

2,654,258

REMOTE OPERATOR FOR WAGON ELEVATOR THROW-OUT CLUTCHES

John L. Aasland, Moline, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application June 21, 1952, Serial No. 294,815
5 Claims. (Cl. 74—99)



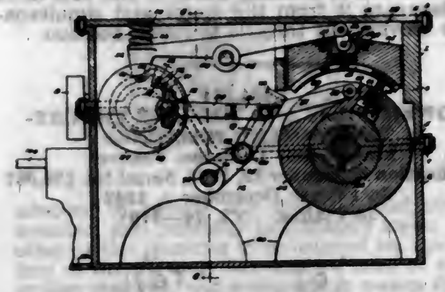
1. A remote control operator for a device having two positions of movement comprising a supporting structure, a member hinged to said supporting structure for swinging movement between two limiting positions, a plate fixed to said supporting structure, said plate having an elongated aperture therein, said elongated aperture having an enlarged portion located at the end and at one side thereof, said enlarged portion forming a notch spaced from and separated from the elongated aperture, a second plate adapted for slidable movement over said fixed plate, a pin on and forming a part of said second plate and arranged and constructed to slidably engage the elongated aperture in said fixed plate, said second plate having an aperture therein disposed at an inclined angle with respect to the length of the fixed plate, said aperture having an enlarged end portion located at the end and side of said inclined aperture, an arm anchored to said hinged member for free sidewise movement and fixed longitudinal movement, said arm having a bent end portion arranged and constructed to pass through intersecting portions of said elongated and inclined apertures, a spring anchored at one end to said supporting structure and at its other end to a corner of said second plate whereby the spring normally urges a biasing of said second plate, and a flexible cable pull device fastened to one end of said second plate whereby successive pullings with alternate releasings results in alternate positioning of said hinged member in either of two limiting positions therefor.

2,654,259

VARIABLE STROKE TRANSMISSION FOR COOPERATING DRIVEN SHAFTS

Lee Singleton Tisdale, Sr., Meridian, Miss.

Application May 28, 1948, Serial No. 29,777
4 Claims. (Cl. 74—125.5)



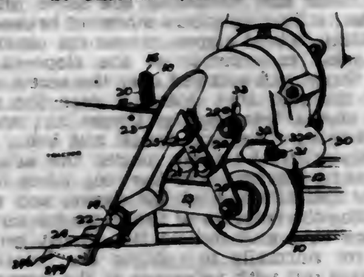
1. The combination with a variable stroke transmission for cooperating driven axles including aligned axle sections, and differential gearing between the adjacent ends thereof, of hubs keyed on said axle sections, wheels disposed about said hubs, clutch blocks in said wheels equally spaced concentrically about said axle sections, crank shaft operated cam wheels cam actuated members operatively connected to the cam wheels and clutch blocks for causing said clutch blocks to consecutively clutch said hubs to rotate the same and release as the next adjacent set of clutch blocks clutch the next adjacent hubs, pivotally mounted oscillating arms connected with the cam actuated members, and said axle clutch block supporting wheels, whereby oscillatory rotary motion is imparted to said gripping clutch block supporting wheels, and manually controlled means adapted to selectively affect the action of said clutch blocks on each axle section.

2,654,260

POWER TRANSMISSION MECHANISM

Arthur J. Lewis, Stratford, Conn., assignor to The Baird Machine Company, Stratford, Conn., a corporation of Connecticut

Application August 2, 1950, Serial No. 177,215
10 Claims. (Cl. 74—208)



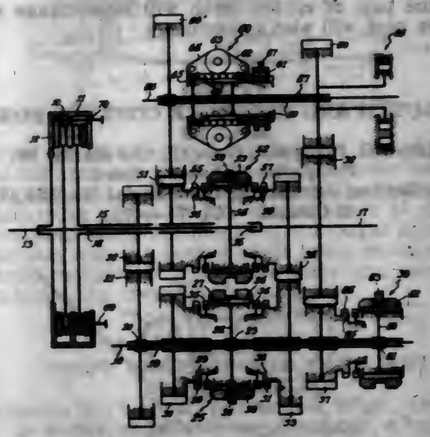
1. Forward and reverse transmission mechanism including spaced driving and driven pulleys, a fixed support for the driving pulley and a support for the driven pulley movable to increase or decrease the spacing of the axes of said pulleys, frictional connecting means associated with said pulleys and selectively operable in response to variation in the spacing of said pulleys to connect the latter for rotation in the same or reverse directions, a pair of pivotally connected toggle links connected to and providing a connection between said supports and movable in one direction to an over-center position to space said pulleys for connection for rotation in the same direction and movable away from said over-center position to another position to space said pulleys for connection for rotation in opposite directions, a control lever, and a connecting link pivotally connected between the control lever and the pivotal connection of said toggle links for operating said toggle links.

2,654,261

DOUBLE COUNTERSHAFT TRANSMISSION

Harold T. Youngren, Birmingham, Mich., and Sidney V. Hettinger, Jr., Westchester, Ill., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application June 11, 1949, Serial No. 98,593
6 Claims. (Cl. 74—336)



1. In a transmission, the combination of a drive shaft, a driven shaft, means providing a first speed power train between said shafts and including a positive clutch and a friction clutch connected in series, means providing a second speed power train between said shafts and including a second friction clutch and a second positive clutch connected in series, means for providing a third speed power train between said shafts and including said first friction clutch and a third positive clutch connected in series, means providing a direct drive power train between said shafts and including said second friction clutch and a fourth positive clutch connected in series for directly coupling said drive shaft to said driven shaft, and means providing a reverse drive power train between said shafts and including said first friction clutch and a fifth positive clutch connected in series, the friction clutch and the positive clutch of each power train constituting the sole engaging means for rendering the power train effective.

2,654,262

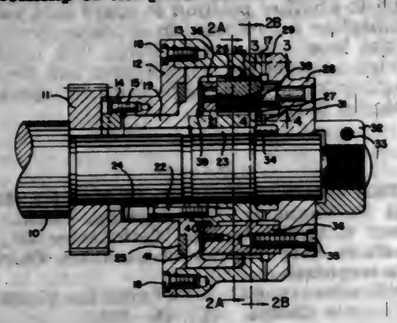
FINE ADJUSTMENT DEVICE

Arthur L. Stewart, Brighton, N. Y., assignor to The Gleason Works, Rochester, N. Y., a corporation of New York

Application November 23, 1951, Serial No. 257,875
14 Claims. (Cl. 74—395)

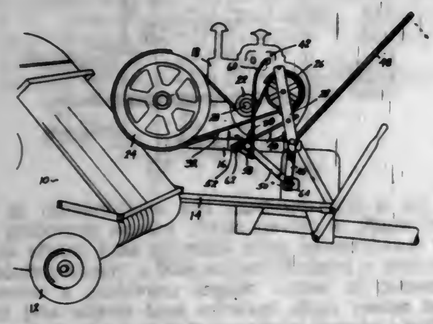
1. In a device of the class described, coaxial drive and driven and locking parts, the locking part having clutch teeth mating with teeth on the drive and driven members, the tooth numbers of the two pairs of clutch teeth being different, and gearing, including a member mounted rotatably

on the locking part, for compelling such angular relationship of the parts that in positions where-



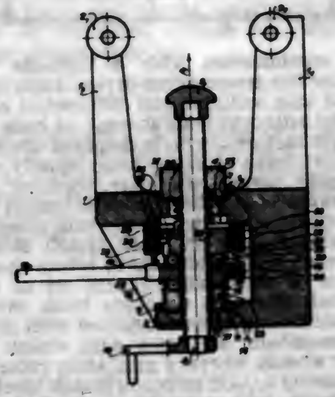
in one pair of clutch teeth will interengage the other pair will also interengage.

2,654,263
CLUTCH AND THROTTLE CONTROL FOR BALERS
Lloyd H. Pringnitz, Goodell, and Harley W. Pringnitz, Kanawha, Iowa
Application January 2, 1953, Serial No. 329,172
5 Claims. (Cl. 74—472)



1. In combination with the drive mechanism on a baler or the like of the class having a motor disposed on a suitable mount, a throttle on said motor, said throttle having an open and an idling position, a belt drive connection between said motor and baler machinery to be operated, a frame member pivotally arranged on the motor mount which carries a pulley wheel that is a part of said belt drive, a plate pivotally secured to said motor mount, a rod pivotally secured at one end to said plate and similarly secured at its other end to said frame whereby rotation of said plate in different directions at times moves said frame correspondingly to tighten and loosen respectively said belt drive for placing said belt drive into and out of engagement with said motor, a single control means for said belt drive and throttle, comprising, a rod member rotatably disposed on said motor mount, a lever handle detachably secured to one end of said rod member, said lever handle extending forwardly and upwardly from said baler to a point that will be within arms' reach of a person seated on a tractor to which the baler will be hitched, an arm member rigidly secured to the other end of said rod member and depending therefrom, a connecting bar pivotally secured at its respective ends to said plate member and the free end of said arm, a bar member rigidly secured to and extending from said plate member, a throttle rod pivotally secured at one end to said bar member and connected at its other end to said throttle, the movement of said lever handle in one direction causing said belt drive to tighten to put it in operation with the motor and simultaneously moving the throttle to open position, and the moving of said lever handle in the opposite direction creating slack in the belt drive to disengage it from the motor and simultaneously moving the throttle to idling position.

2,654,264
POWER PRESS AND THE LIKE THRUST-CONTROLLED MACHINES
Eiel Auriel, Toulouse, France
Application November 29, 1950, Serial No. 198,067
In France December 1, 1949
16 Claims. (Cl. 74—479)

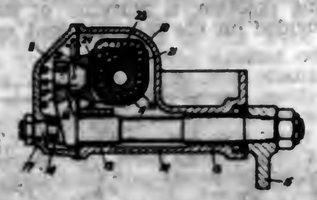


1. In a power press and the like thrust operated machine, the combination of a recessed support, a screw revolubly carried in said support and extending through the recess therein and beyond at least one wall of said recess, a thrust exerting member rigid with one projecting end of said screw, a sleeve provided with a helical slope freely surrounding the screw and bearing against the recessed wall on the inside of the support, a ring revolubly surrounding the screw and provided with a helical slope facing the first helical slope and assuming the same pitch as the latter, rolling members mounted between the cooperating helical slopes, means for controlling the angular movements of the slope-carrying ring, a thrust nut screwed over the screw on the side of the ring that does not face the sleeve, rolling means between the thrust nut and the slope-carrying ring, said thrust nut being urged forwardly with the screw under the action of the forward movement of the ring when it rises over the helical slope on the sleeve, and means controlling the rotation of the screw for screwing the same into and out of the thrust nut and means for normally preventing the rotation of said thrust nut with reference to the support.

2,654,265
STEERING GEAR
Friedrich K. H. Nallinger, Stuttgart, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany
Application February 8, 1952, Serial No. 270,555
In Germany February 10, 1951
8 Claims. (Cl. 74—499)

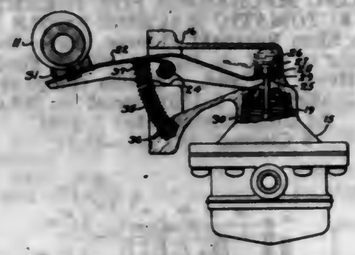
1. A steering gear, comprising a member capable of being displaced in one direction, a lever arm whose axis of rotation crosses the direction

of axis of said displaceable member, means for coupling said lever arm with said displaceable member including a mushroom-shaped insertion member and consisting of a shaft and of a substantially hemispherical, partially ball-shaped head, a bore in one of the elements to be coupled



adapted to receive the shaft of said insertion member, and partially ball-shaped recess in the other of the elements to be coupled for the reception of the partially ball-shaped head of said insertion member, and compression means for normally maintaining said head in connection with said recess.

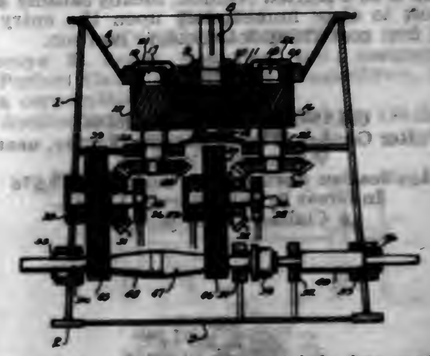
2,654,266
ECCENTRIC AND FOLLOWER MECHANISM
James L. Edelen, Kirkwood, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application July 12, 1951, Serial No. 236,406
7 Claims. (Cl. 74—567)



1. In a pump for operation by an engine rotated cam that is convex along its entire working surface, an operating lever mounted on a transverse pivot, a bearing surface formed at one end portion of said lever, a cam follower shoe having a bearing surface on one face in sliding contact with said bearing surface of said lever, said cam follower having a second bearing surface formed as a section of a cylinder and attached to said operating lever by a pin and slot connection positioned so as to permit sliding of the cam follower upon the lever in a plane parallel to the axis of said transverse pivot and to permit the full area of said second bearing surface of said follower shoe to remain in contact with the working surface of the rotatable cam while spreading said lever bearing surface along a substantial portion of said lever.

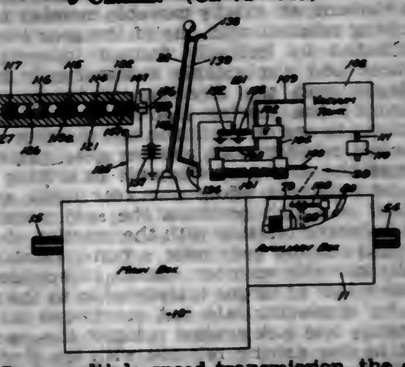
2,654,267
MULTIPLE POWER TAKEOFF TRANSMISSION
Walter Paul Schmitter, Milwaukee, Wis., assignor to The Falk Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application December 29, 1949, Serial No. 135,637
7 Claims. (Cl. 74—665)

1. In a geared power transmission for simultaneously taking different quantities of power from the ends of a shaft, a housing, an input shaft supported in and extending from the housing, a main gear mounted on the input shaft in the housing and restrained from axial movement thereof, a plurality of separate and similar gear trains driven by the main gear, the gear trains severally including single helical gears and the corresponding helical gears of the several trains being of equal angle but opposite hand, and an output shaft having the ends thereof extending



from the housing and divided into two portions of different diameters for simultaneously delivering different quantities of power, the gear trains delivering power to the output shaft at spaced locations along the length of the larger diameter portion and the output shaft being mounted for axial movement to equalize loads and reactions between the several gear trains.

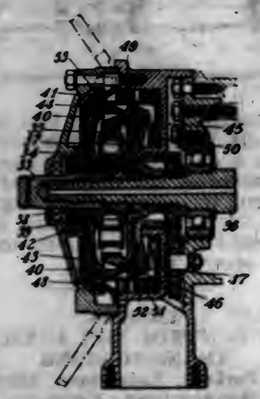
2,654,268
SHIFT CONTROL FOR AUXILIARY TRANSMISSIONS
Charles M. Perkins, Kalamazoo, Mich., assignor to Fuller Manufacturing Company, a corporation of Delaware
Application July 14, 1951, Serial No. 236,817
9 Claims. (Cl. 74—745)



1. In a multiple speed transmission, the combination comprising: a first gear group having shift rods and an interlock mechanism associated therewith, and a second gear group having friction clutch synchronizing means and means serially connecting said second group with said first group, said second gear group having a ratio not materially less than the ratio in the first gear group between its low position and its direct drive position; shifting means automatically actuable upon entry of said first gear group into neutral position for initiating engagement of said synchronizing means and effecting shifting of said second gear group, said shifting means including power means effecting engagement of said synchronizing means and effecting the shifting of said second gear group upon substantial com-

pletion of synchronization; energizing means comprising an electric circuit for effecting energization of said power means; control means operable to open said circuit; and actuating means associated with, and operable by, said interlock mechanism for operating said control means, and thereby opening said circuit, when said first gear group is in a shifted position, means causing said circuit to close immediately upon the entry of said first gear group into neutral position.

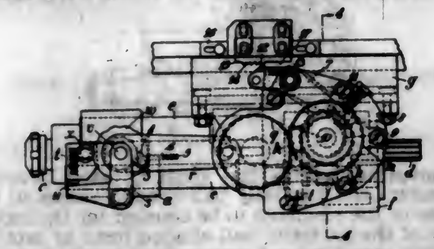
2,654,269
CHANGE-SPEED GEARING
Walter Gordon Wilson, Martyr Worthy, near Winchester, England
Application April 7, 1948, Serial No. 19,576
In Great Britain March 11, 1947
9 Claims. (Cl. 74—751)



1. Change speed gearing comprising, in combination, epicyclic gearing including sun, planet, and annular gear elements, a non-rotatable reaction element, an axially movable member having a driving relation with one of the gear elements constituted by helically formed interengaging surfaces and displaceable automatically in accordance with the direction of torque transmitted by the gearing into either of two end positions, in one of which the said member is held in locked relation with another gear element to connect the said gear elements in driving relation and thereby afford one gear ratio, and in another of which positions the said member is held in locked relation with the reaction element to afford another gear ratio, a non-rotatable and axially movable member, means independent of the direction of torque transmission in the gearing, for displacing said last mentioned member to engage and lock against rotation the gear element having driving relation with the first said axially movable member, power means for displacing said non-rotatable and axially movable member, and means movable in accordance with engine fuel supply for controlling said power means.

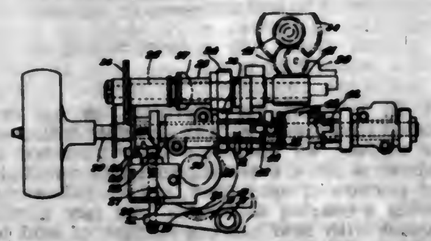
2,654,270
AUTOMATIC DRILLING MECHANISM
Horace Ray Adcock, Shirley, Birmingham, England, assignor to A. C. Wickman Limited, Tile Hill, Coventry, England
Application June 12, 1950, Serial No. 167,656
In Great Britain June 22, 1949
7 Claims. (Cl. 77—32.3)

1. An automatic drilling unit for mounting upon a tool slide of a machine to which slide continuous uniform uninterrupted feed motion is imparted during the entire drilling operation, comprising in combination a drill holder, a slidably mounted support for said drill holder, mechanism for effecting intermittent reciprocating movements of the drill holder to retract the drill holder from and return it to an operative drilling position, a plurality of stationary means provided on the machine and spaced in



the direction of feed, tripping means for initiating successive reciprocatory movements by intermittently co-operating with one of said stationary means, and means operable by said mechanism for varying the operative position of the drill holder to nullify the feed increment imparted by the tool slide during each reciprocation.

2,654,271
INDEXING MECHANISM FOR TURRETS OF AUTOMATIC MACHINE TOOLS
William Elias Reginald Pulman, Hove, England, assignor to C. V. A. Jigs, Moulds & Tools Limited, Hove, England, a British company
Application May 5, 1952, Serial No. 286,055
In Great Britain May 2, 1951
5 Claims. (Cl. 77—32.3)



1. Turret actuating mechanism for the turret of a machine tool, which mechanism comprises means for bodily traversing the turret for machining operations, continuously-rotating cam means controlling said traversing means, means for indexing the turret, a transmission to said indexing means, control means for initiating and interrupting the operation of said transmission, second cam means rotating synchronously with the first-said cam means for actuating said control means, a coupling in said transmission, third cam means rotating synchronously with the first-said cam means for interrupting said coupling, thereby rendering the operation of the second cam means ineffective and permitting a traverse of the turret without indexing.

2,654,272
RIVETING PROCESS
Walter Wallace Donald Warren, Montreal, Quebec, Canada
Application July 16, 1949, Serial No. 105,163
1 Claim. (Cl. 78—46)

A riveting process which comprises forming, in the end of the rivet shank remote from the head, a central punch receiving cavity having a conical inner portion tapering to a point in the direction of the head of the rivet, an intermediate cylindrical portion and an outer conical portion flaring outwardly from said intermediate portion, the depth of said cavity being predetermined with reference to the thickness of the work so that, when the rivet is passed through the rivet receiving opening in the work with the head of the rivet bearing against one side of the work, a portion of the rivet shank lying inwardly of the inner end of the cavity will project beyond the opposite side of the work, passing the rivet through the said work until the head of the rivet bears against one side of the work and then heading the cavity containing end



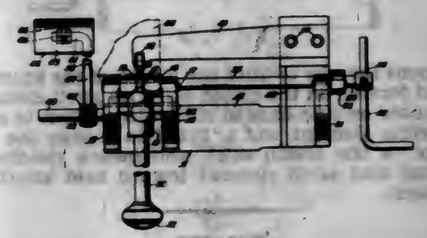
of the rivet shank by forcing thereagainst a heading die presenting a central punch tapering to a point and surrounded by an annular working face inclining outwardly and upwardly from the base of the punch, said punch being of a length less than the total length of said cavity and having a base diameter greater than the diameter of the inner end of the outer conical portion of the cavity, said die being initially arranged with the punch fitted in the outer conical portion of the cavity and with the working face of the die bearing against the end surface of the shank bordering the cavity, and forcing of the die against the cavity containing end of the shank until the material of the shank at the inner end of said cavity is pierced by the punch.

2,654,273
KNURLING DEVICE
Cernyw F. Jones, Economy, Ind., assignor to Perfect Circle Corporation, Hagerstown, Ind., a corporation of Indiana
Application April 12, 1949, Serial No. 87,094
12 Claims. (Cl. 80—5.1)



1. A knurling device comprising a supporting structure having a base member and a supporting member pivotally mounted on said base member, a knurling element in the form of a roller journalled in one of said members, an anvil element carried on the other of said members in substantial alignment with said knurling element whereby said elements are supported in pivotal relation for movement toward and away from each other, means for effecting relative rolling movement between the knurling element and an article to be knurled, an elongated operating member, cooperating means on said base and operating members for moving said operating member lengthwise, an abutment on said supporting member and a fixed stop on said operating member for engaging one side of said abutment for moving said elements apart on lengthwise movement of said operating member, and a spring on said operating member engaging the opposite side of said abutment for urging said elements together when said operating member has been moved to space said fixed stop from said abutment.

2,654,274
KNURLING DEVICE
Cernyw F. Jones, Economy, Ind., assignor to Perfect Circle Corporation, Hagerstown, Ind., a corporation of Indiana
Application June 22, 1949, Serial No. 100,649
1 Claim. (Cl. 80—5.1)

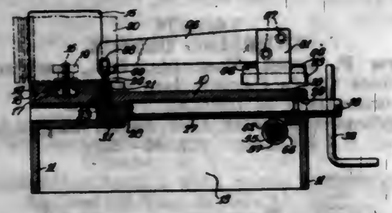


A device for knurling the thrust faces of the skirt portion of a piston, comprising an elongated base having an intermediate portion provided with parallel front and rear sides adapted to be gripped between the clamping jaws of a vise, a bracket extending upwardly from one end of said base and having a bifurcated rearwardly extending portion at its upper end, a lever pivotally supported within said rearwardly extending portion and having a forwardly extending portion and a depending portion which is slotted, a knurling roller rotatably mounted in the slot in said depending portion, a forwardly extending handle mounted in said forwardly extending portion, a similarly shaped bracket extending upwardly and rearwardly from the other end of the base, a link shaped similarly to said depending portion and pivotally suspended from said last mentioned bracket, a shaft rotatably supported by said link and said depending portion and connected at one end to said knurling roller and having a handle at its other end, a third bracket extending rearwardly and upward from said other end of the base, an elongated arm mounted at one end on said third bracket and extending parallel to said base so that its other end is located adjacent said knurling roller, and an anvil roller rotatably mounted in said other end of said arm in alignment with said knurling roller, said knurling roller being swingable rearwardly toward said anvil roller by pressure downwardly on said forwardly extending handle to clamp the skirt of the piston between said rollers.

2,654,275
KNURLING DEVICE
Cernyw F. Jones, Economy, Ind., assignor to Perfect Circle Corporation, Hagerstown, Ind., a corporation of Indiana
Application August 24, 1949, Serial No. 112,043
11 Claims. (Cl. 80—5.1)

1. A device for knurling the thrust faces of the skirt portion of a piston, comprising a base, a movable knurl-carrying member mounted on said base, a knurling element carried by said knurl-carrying member and adapted to engage the exterior surface of the piston skirt, a manually operable driving means having driving engage-

ment with said knurl-carrying member for actuating the latter whereby to operate the knurling element, said driving means including a manually operable member, a pair of abutments adjustably mounted on said base on opposite sides of one of said members in the path of movement thereof to limit the movement of the knurling



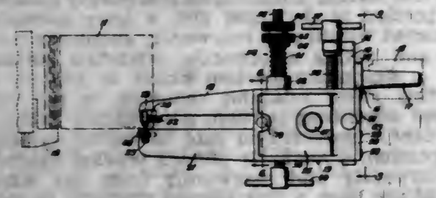
element thereby to limit the length of the knurled band formed on the piston skirt, an anvil element mounted on said base in shiftable relation to said knurling element and adapted to engage the interior of the piston skirt, and means yieldingly urging said anvil element toward said knurling element.

2,654,276

KNURLING DEVICE

Cernyw F. Jones, Economy, Ind., assignor to Perfect Circle Corporation, Hagerstown, Ind., a corporation of Indiana

Application September 27, 1949, Serial No. 117,961
6 Claims. (Cl. 80—5.1)



1. A device for knurling the thrust faces of the skirt portion of a piston, said device comprising a body member having oppositely disposed side walls and an end wall, said side walls and end wall defining a slot, a pair of elongated supporting arms extending into said body member through said slot and between said side walls, a fulcrum pin journalled in the side walls of said body member and having said arms pivotally supported thereon for movement away from and toward each other, an anvil roller mounted on the outer end of one of said arms and a knurling roller mounted at the outer end of the other of said arms and adapted to engage the interior and exterior surfaces respectively of the piston skirt, and spring means engaging said arms adjacent said fulcrum pin for yieldingly urging said rollers toward each other.

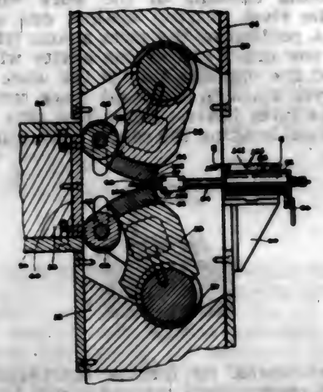
2,654,277

MACHINE FOR MAKING AND FORMING TURBINE BLADES

Oscar Hedlund, Battle Creek, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application February 26, 1949, Serial No. 78,556
7 Claims. (Cl. 80—25)

1. A rolling machine comprising a supporting frame, pivoted segmental rollers carried by said frame, said rollers adapted to carry forming dies and rockable about their pivots to exert forming pressure against a workpiece disposed between the dies, pressure rollers carried by the respective segmental rollers, a reciprocable ram including a face plate positioned perpendicular to the line of movement of the ram arranged for endwise engagement with said pressure rollers and operative to apply driving force to said segmental



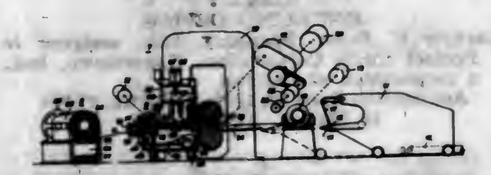
rollers through said pressure rollers, plate means fixedly secured to the ram and extending axially therefrom having elongated slots therein receiving shaft extensions of the pressure rollers therein, effective upon a retroactive movement of the ram to simultaneously retract the segmental rollers.

2,654,278

STRIP METAL ROLLING PROCESS AND APPARATUS

Mathias Michel, Pittsburgh, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

Application February 16, 1949, Serial No. 76,761
5 Claims. (Cl. 80—32)



1. In apparatus for feeding successive coils of metal strip to a strip rolling mill for cold rolling without reducing the rolling speed of the mill, an unwind reel for a strip coil disposed in front of said mill, a dynamo-electric machine connected to said reel, means for energizing said machine as a motor, said machine having capacity as a motor to continuously accelerate said reel and coil from standstill to a strip feed speed greater than said rolling speed by the time the strip unwound from said coil reaches said mill for entry, said energizing means including a resistance in series with the armature of said machine to limit the armature current, a series motor continuously driven from said mill at a speed proportional to said rolling speed and connected electrically across the armature terminals of said machine to control said acceleration and render the strip speed at entry into the mill proportional to said rolling speed, motor driven pinch roll means interposed between said mill and said reel to receive the strip unwound from said coil preliminary to its accelerated feed into said mill, and adapted to be accelerated at a higher rate

than that of said reel and coil whereby the strip between said coil and said pinch roll means is kept taut, and strip guide means extending between said pinch roll means and said mill through which the strip in effect is pushed by the former for entry into the latter.

2,654,279

TUBE BENDING HAND TOOL WITH A ROCKING PRESSURE MEMBER

Marcus Tomarin, Cincinnati, Ohio

Application April 19, 1950, Serial No. 156,812
4 Claims. (Cl. 81—15)



1. A tube bender comprising a block having a curved and a tangential portion, provided with a tube-receptive channel, a U-shaped lever having a pair of legs which spanningly engage opposite sides of said block, and wherein the lower ends of said legs and said block at its center of curvature are provided with alignable openings, a pivot pin insertable through said openings for pivotally securing said lever to said block, a shoe pivotally secured between the legs of said lever and intermediate the ends thereof, said shoe having a tube-receptive channeled edge, means for detachably securing said shoe to said lever, tube clamping means secured to and carried by said block adjacent an end of its tangential portion, a handle projecting from said block, and a handle removably attached to said U-shaped lever between said shoe securing means and the bight of the U.

2,654,280

CLAMP ATTACHMENT FOR PLIERS

Allen Hudnall, Denver, Colo.

Application March 28, 1952, Serial No. 279,963
1 Claim. (Cl. 81—49)



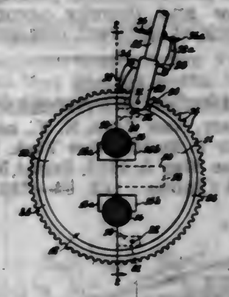
A clamp device for use with pliers having pivoted handles provided with opposing jaws at one end, said clamp device comprising, a bolt having one end provided with a laterally extending plier handle grip having an opening of the size and shape to receive a plier handle, a second laterally extending plier handle grip slidable on the bolt and tiltable relative thereto having a hole of the size and shape to receive the other plier handle, the bolt having a threaded section, and means in engagement with the threads on the bolt for moving the plier handle grips towards each other when the means is turned relative to said bolt.

2,654,281

RATCHET WRENCH FOR USE WITH TURNBUCKLES

Svend A. Rasmussen, New York, N. Y.

Application July 7, 1950, Serial No. 172,508
1 Claim. (Cl. 81—60)



The combination of a turnbuckle, forming a gear wheel, with a ratchet lever, whereby to turn the former, said ratchet lever comprising a long handle having a yoke, the arms of the latter embracing the peripheral portion of said wheel, arcuate members pivotally secured to said arms and slidable in grooves of said peripheral portion, a pawl pivoted to said yoke and made to engage the teeth of said wheel, said pawl being adapted to be swung back close to said handle, and a clip hook on the latter for securing the pawl in inoperative position, a second pawl on the yoke, and hook on said handle being adapted for rotating the wheel in the opposite direction.

2,654,282

ADJUSTING MEANS FOR SLIDABLE SIDE JAW WRENCHES

Milton W. Emmett, Los Angeles, Calif., assignor to Heldfast Tool Co., Inc., Los Angeles, Calif., a corporation of California

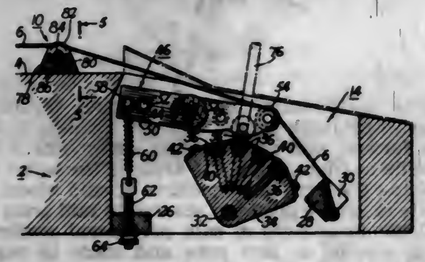
Application March 24, 1949, Serial No. 83,196
1 Claim. (Cl. 81—96)



Adjusting means for a slidable side jaw wrench comprising: a first handle member having a

transversely channeled head and a fixed jaw thereon, a second handle member hinged to said first handle member at a point near said head, said fixed jaw having a channeled shank held in the channel of said head, a movable jaw having a shank slidable on the shank of said fixed jaw to and from work holding position relative to said fixed jaw, an adjusting screw rotatable in the shank of the movable jaw, a bifurcated nut borne by said screw and adjustable between spaced portions of the movable jaw, and a connector borne by said second handle member and seated between the furcations of said nut, whereby the rotation of said screw will effect axial adjustment of said nut, limit movement of the movable jaw to a predetermined position relative to the fixed jaw and thereby accommodate the wrench to work of different dimensions.

2,654,283
MUSICAL INSTRUMENT
George Barr, New York, N. Y., assignor to Arthur V. Smith, New York, N. Y.
Application May 2, 1949, Serial No. 90,811
18 Claims. (Cl. 84—312)



1. A device for changing the tuning of a multiple string steel guitar including, a cam shaft, a plurality of cams keyed to said shaft, one cam for each string to be tuned, each cam having at least three operating cam positions each corresponding to a tuning position for said device, a tuning lever cooperating with each cam and pivoted at one end, each lever provided with a shoe portion made of a softer material than said cams and adapted to ride on said cams as followers for taking the frictional wear in place of the cam, a roller mounted in the free end of each tuning lever for providing antifriction rolling support for each string, the operating tension of said strings being applied to said tuning levers in a direction toward said cams normally to hold said levers in engagement with said cams, an annular groove in each roller for maintaining the guitar strings accurately positioned on said rollers, a fastening point for each guitar string located approximately at the pivot point of said tuning levers, a collar keyed to said cam shaft, a shifting lever fastened to said collar for rotating said cams and changing the tuning of said guitar, and a socket means in combination with a spring actuated pin for indicating and temporarily holding said cams at predetermined tuning points in the arcs of rotation.

2,654,284
SCREW WITH SELF-DRILLING END
Leonard O. Schevenell, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application May 23, 1951, Serial No. 227,770
2 Claims. (Cl. 85—47)

1. A combined aperture and thread-cutting screw fastener comprising a head having means for accommodating a screw driving member, a shank extending from the under side of said head and having a threaded holding portion and an entering end portion of reduced cross-section, the entering end portion having opposed chordal segments removed to provide a relatively narrow blade portion with major and minor transverse axes and recesses on opposite sides thereof, a plurality of cutting teeth spaced axially along the narrow edges of the blade portion and of diminishing height toward the entering end surface of the blade portion, said entering end surface of the blade portion being notched along the



major axis of the blade portion between the narrow edges thereof and internally relieved between the longitudinal edges of the said notched portion to provide angularly disposed cutting surfaces along the edge of each wide face of the blade portion, and a pair of arcuate cutting edges across the narrow entering edges of the blade portion intersecting adjacent cutting surfaces along the notched portions and cooperating therewith in advance of the cutting teeth to form an aperture in a work piece with the cuttings gaining access through the notched portion to the recesses provided on opposite sides of the blade portion to prevent clogging.

2,654,285
BOREHOLE LOADER
Robert McGirr, Pottsville, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
Application August 31, 1948, Serial No. 47,062
5 Claims. (Cl. 86—31)



1. A bore hole loader comprising an elongate core of spring metal, the sheath around said core and substantially the same length as said core, said sheath being composed of tough, flexible, non-sparking material, and a tamping head portion of hard, tough, non-sparking material rigidly attached to one end of the core and sheath assembly, said core and sheath assembly being substantially axially incompressible and inextensible and being sufficiently flexible to be bent in confined spaces.

2,654,286
OPTICAL VIEWING DEVICE FOR NIGHT DRIVING
Jorge M. Cesar, Monterrey, Mexico
Application July 14, 1950, Serial No. 173,899
1 Claim. (Cl. 88—1)

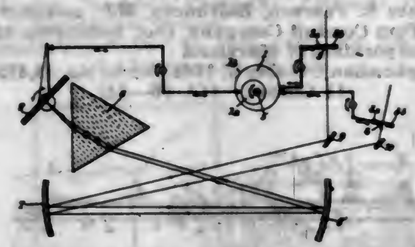
In a device for determining the position of an approaching vehicle where head-light glare obstructs the vision of an operator of a vehicle, the

combination which comprises a casing of rectangular shape in cross section and having vertically spaced parallel front and rear walls, a lens mounted in said front wall of the casing and positioned midway between the ends thereof, an upper horizontally disposed reflector mounted in an inclined position in the upper part of the casing, a lower horizontally disposed reflector also mounted in an inclined position and located in the lower portion of the casing, laterally positioned viewing screens coacting with the lens and reflectors, mounted in the rear wall of the casing, one positioned to show an image of a pass-



ing vehicle when said vehicle is in a path a safe distance at the side of the vehicle in which the periscope is positioned and the other screen being positioned to show an image of a vehicle when said vehicle is in the path of the vehicle in which the periscope is positioned, said screen for showing the image of the vehicle a safe distance at the side of the vehicle in which the periscope is positioned being colored green and the screen for showing the image of the vehicle positioned in the path of the vehicle in which the periscope is carried being colored red, and means for mounting said periscope in a motor vehicle.

2,654,287
SPECTROPHOTOMETER
Karl Luft, Toulouse, France, assignor to "Office National d'Etudes et de Recherches Aeronautiques" (O. N. E. R. A.), Paris, France, a society of the Republic of France
Application July 18, 1949, Serial No. 105,491
In France July 13, 1948
3 Claims. (Cl. 88—14)

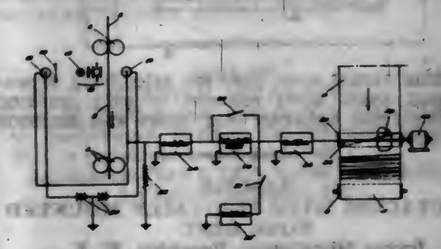


1. A spectrophotometer of the type described which comprises, in combination, means forming an entrance slit for an incoming light beam, adjusting means for varying the width of said slit, means for dispersing said beam into its elementary beams of different wavelengths, means forming an exit slit for said elementary beams, adjusting means for varying the width of said exit slit, means for successively directing said elementary beams toward said exit slit, means for operatively connecting said beam directing means with said means for adjusting said exit slit, said connecting means including means coordinating the operation of said slit varying means with said beam directing means to provide a constant practical resolving power defined by the following relationship:

$$R=\frac{\lambda}{\Delta\lambda_s}$$

where R, the resolving power, is constant; λ is the wavelength of the mean value of the spectral portion instantaneously passing through said exit slit; and $\Delta\lambda_s$ is the range of the wavelength band in said spectral portion having as their mean value the wavelength λ.

2,654,288
METHOD AND MEANS FOR PREDETERMINING THE APPEARANCE OF FABRICATED ARTICLES
Ignatius C. Savadelis, Arlington, N. J., assignor to Deering Milliken Research Trust, New York, N. Y., a nonprofit trust of New York
Application May 23, 1947, Serial No. 749,942
17 Claims. (Cl. 88—14)

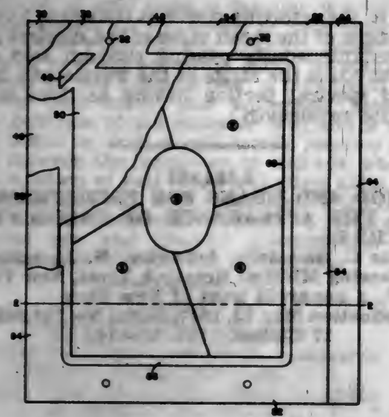


1. The method of obtaining a visual representation simulating a fabric that could be woven with two yarns as filling which comprises measuring the diameter of one of the yarns during longitudinal travel thereof, consecutively graphically portraying the diameter measurements of successive lengths of the yarn in spaced bands each extending back and forth across a surface in closely spaced stretches with characteristics of each stretch varying from one end to the other in accordance with the measured yarn diameter variations similarly measuring the diameter of successive lengths of the other yarn during longitudinal travel thereof and similarly graphically portraying such diameter measurements in spaced bands each extending back and forth across the surface and alternating with the bands portraying the first yarn.

2,654,289
APPARATUS FOR PRODUCING PHOTOMONTAGES
Dennis J. Flynn, Newport, Ky.
Application January 12, 1950, Serial No. 138,244
2 Claims. (Cl. 88—24)

1. In a photo-montage printing apparatus the combination of a support for a sheet of sensitized material, a masking member having a plurality of target areas indicated thereon wherein the sum total of said target areas is substantially equal to the total area of the sheet of sensitized material to be printed, means for removably securing said masking member in overlapping relationship with a sheet of material mounted in said support, a plurality of masking elements of an area greater than the area of said masking member, each of said masking elements provided with an aperture corresponding to a different target area of said masking member, means individually and selectively engageable by said masking elements for disposing them in spaced parallelism with said support

and beyond the plane of said masking member for correlating each masking element to that particular portion of a sheet mounted on said support disposed immediately below a corresponding target area, and for selectively exposing said sheet upon removal of said masking member from between said sheet and masking element.



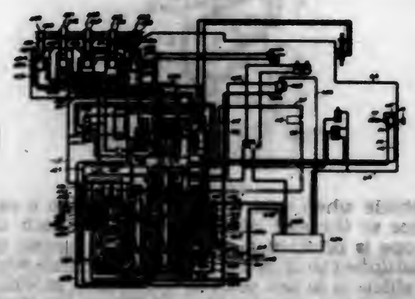
2,654,290
SPECTACLES WITH PIVOTALLY MOUNTED NOSE REST
Irving Hirschman, Brooklyn, N. Y.
Application June 26, 1951, Serial No. 233,660
1 Claim. (Cl. 88—55)



A nose rest for a plastic spectacle frame, said nose rest comprising a bridge, and a pair of bearings for attachment to the spectacle frame, said bearings pivotally supporting said bridge, each said bearing engaging an oppositely disposed end portion of the bridge, and each said bearing comprising a body portion, a loop at the top of the body portion which receives one end of the bridge, leaving the same free to engage in swivelling movement in said loop, a pair of oppositely disposed feet at the bottom of the body portion, said feet lying on a common plane, and a plastic pad secured on said feet for attachment to the frame.

2,654,291
HYDRAULIC TRANSMISSION FOR MACHINE TOOLS
Ira J. Snader, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application August 3, 1940, Serial No. 351,040, now Patent No. 2,436,406, dated February 24, 1948, which is a division of application Serial No. 177,693, December 2, 1937, now Patent No. 2,251,961, dated August 12, 1941. Divided and this application November 25, 1947, Serial No. 787,869
1 Claim. (Cl. 90—22)

In a machine tool having a drive backlash compensator, the combination of a base, guide means fixed to said base, a slidable member mounted on said guide means for translational movement therealong, a drive for said slidable member including a lead screw element and a nut element, one of said elements being fixed relative to said base, the other of said elements being connected to said slidable member for movement therewith, a first hydraulic motor drivingly connected to one of said elements for rotating the same, a second hydraulic motor connected for the effecting of backlash compensating movement of one of said elements relative to said other element and said slidable member and said base, pump means for supplying a



source of fluid at high pressure, means including a first adjustable valve connecting said high pressure source with said first hydraulic motor, a first pressure reducing valve connected with said pump means for supplying fluid at reduced pressure to said second hydraulic motor, means including a second adjustable valve connecting said second hydraulic motor with the reduced pressure side of said first reducing valve, pilot valve means interconnected with said first and second adjustable valve means for controlling both said latter means, and a second pressure reducing valve connected with said pump means for supplying fluid at reduced pressure to said pilot valve means.

2,654,292
BURR REMOVER
William S. Pearson, Baltimore, Md., assignor to Clifton Conduit Company, Inc., Baltimore, Md., a corporation of Maryland
Application October 8, 1948, Serial No. 53,475
11 Claims. (Cl. 90—24)



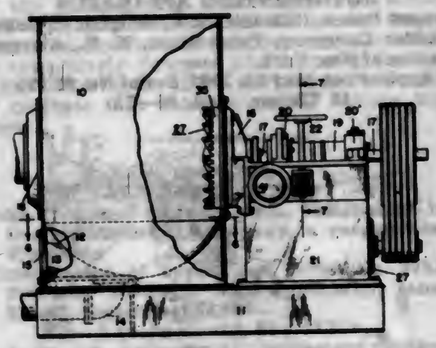
4. In combination in apparatus for scarfing the interior of a freshly welded joint on tubing at a point spaced a relatively short distance past the point of welding of a longitudinal slot in the tubing, supporting means including a relatively narrow member of a thinness to extend through the slot in the tubing to the interior of the tubing, a tubular bearing supported by said member within the tubing and with its axis extending generally longitudinally of the tubing, a spindle supported rotatably by said bearing and extending past the point of welding to said point past the point of welding, a rotary scarfing tool carried by the spindle at said point beyond the point of welding for scarfing the joint, means for rotating the spindle, and means arranged to extend through the slot in the tubing for supplying lubricant to the interior of said tubular bearing.

2,654,293
ROTARY BROACH
Roger E. Coles, Union, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application March 3, 1949, Serial No. 79,334
7 Claims. (Cl. 90—33)



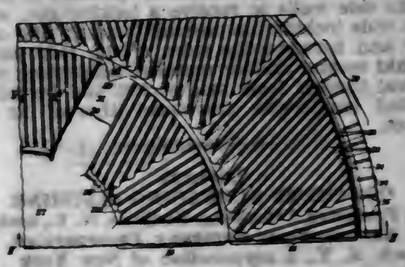
1. In a metal working device, a base, a shaft rotatably mounted on said base, a work station, a metal working tool fixed to said shaft, a plurality of similar metal working faces disposed on the face of said tool in spaced relation to each other, and means operative upon each actuation thereof for imparting a partial revolution to said shaft to drive a single one of said faces through said work station.

2,654,294
PULP SHREDDING AND TREATING MACHINE
Charles W. Merden, Portland, Oreg., assignor to Merden Machines Company, Portland, Oreg., a corporation of Oregon
Application August 22, 1950, Serial No. 180,746
8 Claims. (Cl. 92—26)



1. In a machine for treating fibrous material, a rotor having a main hub portion, a stationary ring concentric with said rotor hub, said stationary ring having a frusto-conical attritioning surface inclined upwardly at an acute angle with respect to the plane of rotation of said rotor hub, shearing and shredding teeth on the outer periphery of said stationary ring, a plurality of blades on the face of said rotor hub also inclined upwardly at an acute angle with respect to the plane of rotation of said rotor hub and extending beyond the periphery of said hub and over the frusto-conical attritioning surface of said stationary ring to the outer periphery of the shredding teeth on said ring, whereby, with the rotation of said hub, said blades will cause said material with which they come into contact to be impinged against said frusto-conical surface of said ring, the under side faces of said blades overlying said frusto-conical attritioning surface of said stationary ring, and said under side faces lying in a frusto-conical surface capable of mating with said surface of said ring, whereby said blades can move over said frusto-conical attritioning surface of said ring with very slight clearance, and means for causing longitudinal axial adjustment of said rotor, whereby to adjust the clearance between said blades and said frusto-conical attritioning surface of said ring.

2,654,295
REFINER APPARATUS
Lionel M. Sutherland, Morrisville, Pa., assignor to Sutherland Refiner Corporation, Trenton, N. J., a corporation of New Jersey
Application May 2, 1951, Serial No. 224,121
7 Claims. (Cl. 92—26)



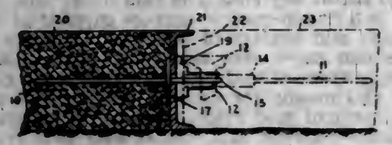
1. A fiber pulp refiner comprising relatively revolving pulp refining members having coacting adjacent working faces substantially parallel to one another, each of said working faces including outwardly directed grooves of curved cross section offset from a line perpendicular to said faces, said grooves extending outwardly along said working faces in angular relation to the circumferential direction of relative revolution of the discs, and to a line perpendicular to said circumferential direction, means for introducing pulp suspension to the inner ends of said grooves, and means for withdrawing the refined pulp from the outer ends of said grooves, whereby the pulp travelling along said grooves is whirled about the groove axes by coaction of the relative rotation of the refining members and the offset construction of the grooves.

2,654,296
PROCESS OF PRODUCING PRIMED HARDBOARD
James B. McCorkle, Evanston, Ill.
No Drawing. Application March 18, 1948, Serial No. 15,745
4 Claims. (Cl. 92—40)

1. Process of producing a primed ligneous hardboard which comprises coating a porous mat

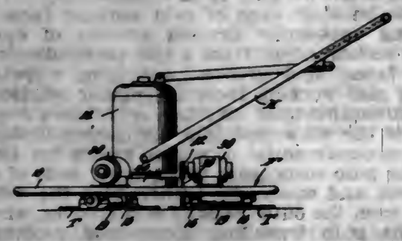
of interlaced lignocellulosic fibers with a proteinaceous coating composition, drying the coating, and subjecting the thus coated mat to consolidating pressure within the range of from about 500 to about 2000 pounds per square inch at a temperature range between about 450° F. and about 500° F.

2,654,297
EXPANSION DOWEL
Felix L. Nettleton, Kingston, N. Y.
Application February 18, 1949, Serial No. 77,225
5 Claims. (Cl. 94—8)



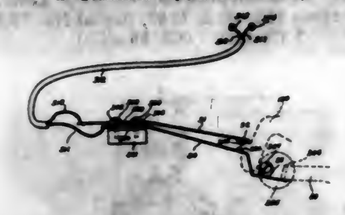
1. A three part dowel for controlling the expansion of construction joints in concrete structures comprising a pair of anchor members formed of rods bent at the middle to provide elongated loops, the ends of said rods diverging to constitute anchor elements, a socket integrally secured on the end of the loop portion of one anchor member and adapted to receive the loop portion of the other anchor member, said socket having transversely elongated openings in its opposite side walls to receive a locking pin, and a thin wide locking pin passing through said openings and between the sides of the loop portion of said second anchor member preventing withdrawal thereof from said socket and permitting limited lengthwise movement thereof in said socket.

2,654,298
CONCRETE SURFACING MACHINE
Carl Frederick Ytterberg, Yonkers, N. Y., assignor to Kalman Floor Company, Incorporated, New York, N. Y., a corporation of New York
Application May 11, 1949, Serial No. 92,647
3 Claims. (Cl. 94—45)



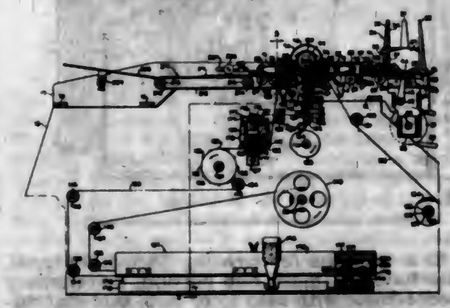
1. In a concrete surfacing machine, in combination, a plurality of work engaging trowels, a motor frame above the trowels, spaced brackets mounted upon and extending transversely of each such trowel, an eccentric rotatably supported in said spaced brackets, a driving motor centrally mounted on the motor frame, a plurality of secondary motors mounted on said motor frame, one adjacent each trowel, a vibration absorbing driving connection between each bracket and the motor frame, and a driving connection between each eccentric and the secondary motor associated therewith.

2,654,299
PHOTOFLASH SYNCHRONIZING MECHANISM
Gordon N. Smith, Portland, Oreg., assignor, by mesne assignments, to Sawyer's Inc., Progress, Oreg., a corporation of Oregon
Original application June 16, 1947, Serial No. 754,961, now Patent No. 2,553,015, dated May 15, 1951. Divided and this application July 14, 1950, Serial No. 173,873
2 Claims. (Cl. 95—11.5)



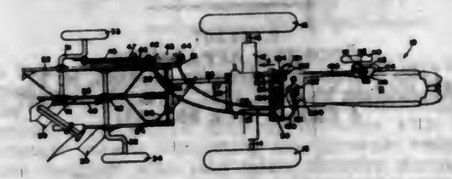
1. In a camera including a lens, a shutter movable from a lens obscuring position to a lens exposing position, a shutter latch for holding said shutter in its lens obscuring position, spring means operatively connected to said shutter to move said shutter to its lens exposing position upon release of said shutter from said latch, a shutter latch pawl operatively releasing said shutter latch from said shutter, means including a manually operable shutter release lever for actuating said shutter latch pawl, and means including photoflash switch means for illuminating a scene in synchronization with the release of said shutter; the improved photoflash switch means including two spring contact blades inherently self-biasing into closed position, means on said shutter latch pawl normally flexing one of said spring contact blades to an open position and releasing said one spring contact blade to return to its closed position upon actuation of said shutter latch pawl to release said shutter latch, and means on said shutter release lever normally flexing the other of said spring contact blades to an open position away from the first mentioned shutter latch blade and releasing said second spring contact blade to return to its closed position upon manual actuation whereby accidental closing of the photoflash switch is positively prevented until release of said shutter occurs.

2,654,300
PHOTOPRINTING APPARATUS
Leonard Baker, Hillsdale, N. J., assignor to Dexter Folder Company, Pearl River, N. Y., a corporation of New York
Application May 24, 1949, Serial No. 95,105
18 Claims. (Cl. 95—75)



1. In a photo-printing apparatus, a source of light, means for supporting a light-sensitive element adjacent said light source, continuously driven conveyor means disposed in the plane of said supporting means for advancing a transparency-carrying member between said light source and said element and with the transparency thereof in register with said element, means for stopping said advancing member independently of said conveyor means in a predetermined position with respect to said element and with the transparency thereof within the range of light from said light source, and means for thereafter rendering said light source effective and for a time interval sufficient to expose said element through the transparency.

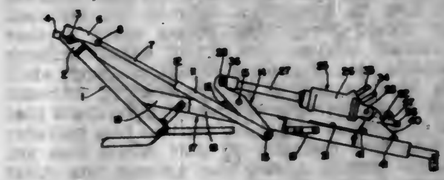
2,654,301
DRAFT CONTROL MECHANISM
Thomas W. Behmker, Geneseo, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application May 22, 1946, Serial No. 671,672
19 Claims. (Cl. 97—46.03)



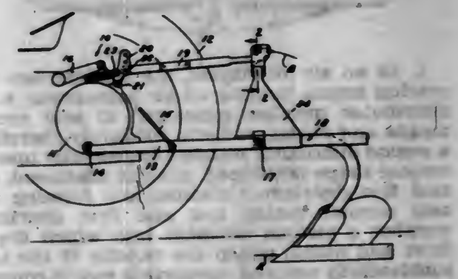
15. In combination with a draft vehicle powered for travel over the ground by a ground-engaging traction element and subject to decrease or increase in the travel speed according respectively to increase or decrease in draft load imposed on the vehicle; an agricultural implement draft-connected to the vehicle for travel therewith and having an agricultural working part selectively adjustable to and settable in different phases of operating effectiveness and adapted, in any selected phase, to encounter agricultural conditions of varying magnitude imposing varying resistances to travel of said part with the vehicle and accordingly imposing varying draft loads on the vehicle such as to affect the travel speed of the vehicle; power actuated means connected to the working part and controllable to adjust and set the working part in different phases of operating effectiveness; means associated with the vehicle for reflecting variations in the travel speed of the vehicle; and means connected between said reflecting means and the power actuated means for controlling said power actuated means to respectively decrease and increase the operating effectiveness of the working part according to decrease and increase in the vehicle travel speed.

2,654,302
POWER LIFT
John H. Starr, Mayville, Wis., assignor to John Deere Van Brunt Company, a corporation of Wisconsin
Continuation of application Serial No. 579,870, February 26, 1945. This application January 2, 1952, Serial No. 264,607
5 Claims. (Cl. 97—46.31)

1. In an agricultural implement including a quick detachable power cylinder releasably mounted on the implement, said cylinder having an attaching pin, a bracket fixed to said implement and having a hook-like portion adapted to receive said pin, a transverse opening formed in said bracket, a slidable member movably mounted in said opening and having a pin-engaging portion adapted to engage said cylinder pin and hold the latter in said hook-like portion, and a detent pivotally connected at one end to the outer end of said slidable member and adapted to be moved into a position acting between said bracket and the outer end of said member, the other end of said detent being rounded so as to engage the adjacent portion of the bracket at a point below a line connecting the cylinder pin and the pivot of the detent on said slidable member for holding the latter in a cylinder-retaining position.



2,654,303
TRACTOR LINK
Frederick D. Sawyer, Wayne, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware
Application September 24, 1951, Serial No. 248,057
7 Claims. (Cl. 97—47.62)

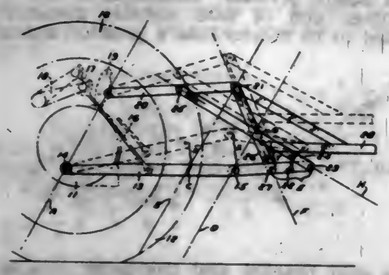


2. A tractor link connection comprising receiving means having spaced concentrically curved segmental spherical bearing surfaces, and a link having an end portion enterable between said bearing surfaces and provided with segmental spherical surfaces concentric with said bearing surfaces and adapted for snugly mating engagement therewith.

2,654,304
HITCH FOR HEAVY IMPLEMENTS
Raymond W. Wilson, Ferndale, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware
Application January 11, 1952, Serial No. 265,965
7 Claims. (Cl. 97—47.52)

1. An implement hitch for a tractor comprising a pair of laterally spaced trailing draft links pivotally connectable to said tractor, a trailing top link adapted for attachment to said tractor, a lever arm pivotally secured to the trailing end of each of said lower links, an implement frame connected at its upper end to said top link and to said lever arms intermediate their lengths, and control arms connected to said top link in spaced relationship to said implement frame and to the free ends of said lever arms, power lifting of said lower links effecting pivoting movement of said

lever arms with movement of the free ends of said lever arms restricted by said control arms, so that said implement frame is power lifted



through a distance less than the distance through which the free ends of said lower links are elevated.

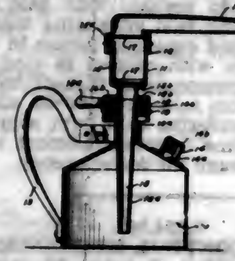
2,654,305
AIR DISTRIBUTION SYSTEM
Robert C. Robertson, Scarsdale, N. Y.
Application February 6, 1947, Serial No. 726,906
3 Claims. (Cl. 98—40)



1. In an air distributor, the combination of, a conduit means forming an air passageway, a first distributor member connected to said conduit means and flaring radially outwardly therefrom, a second distributor member of generally inverted conical shape positioned in axial alignment with said first distributor member and forming with said conduit means and said first distributor member a plenum chamber into which the air flows and within which the velocity of the air is substantially reduced, supporting means connecting said second distributor member to said conduit means, said first and second distributor means presenting opposed converging walls which have substantially greater radii than said conduit means tending to direct the air radially outwardly with respect to said axis, said first and second distributor members having opposed discharge lips at their outer edges which are curved away from each other and form an air distributor jet through which the air is directed at a rapid rate in a generally radial direction with respect to said axis.

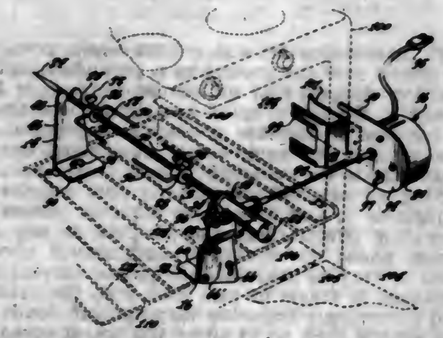
2,654,306
HOME COFFEE BREWING APPARATUS
Stanley H. Sacker, New Orleans, La.
Application March 14, 1949, Serial No. 81,249
2 Claims. (Cl. 99—303)

1. A joint for connecting the tubular ends of a coffee pot assembly having a water heating base element, a coffee holding intermediate element and an upper discharge element, said elements having co-acting tubular ends, each of said joints including a circumferential flange on the upper end of each lower tubular portion, a circumferential flange co-acting with the first mentioned flange and located on the lower portion of a respective upper tubular portion, a gasket interposed between said flanges, a reinforcing ring surrounding the upper ends of each tubular portion below and supporting the flange thereon, pins extending radially in opposite diametrical relation from said reinforcing ring, a locking sleeve on the lower end of each respective tubular



portion and provided with a series of arcuate slots extending from the lower edge of the locking sleeve upwardly and around said sleeve, said slots being uniformly spaced around the sleeve.

2,654,307
COOKING APPARATUS
Jules Niemeen, Croton-on-Hudson, N. Y.
Application March 7, 1951, Serial No. 214,287
4 Claims. (Cl. 99—421)

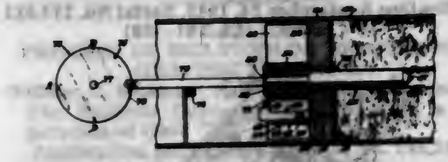


1. A bracket element for use in conjunction with a cooking device having a grate including parallel grate rods, and adapted to be positioned in resilient engagement between a pair of said grate rods, said bracket element comprising: a bearing surface, a mounting portion and an engagement member; said mounting portion and said engagement member having an effective dimension greater than the distance between said pair of grate rods; said engagement member being fixed upon said mounting portion in parallel relationship thereto at the central parts thereof, whereby said central parts may be positioned between said pair of grate rods and portions of the opposing surfaces of said mounting portion and said engagement member may be positioned to engage said grate rods therebetween.

2,654,308
BALER PRESS MECHANISM FOR FORMING VENTED BALES
Lee P. Millard and Hilmond O. Vogel, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application April 18, 1951, Serial No. 221,618
5 Claims. (Cl. 100—50)

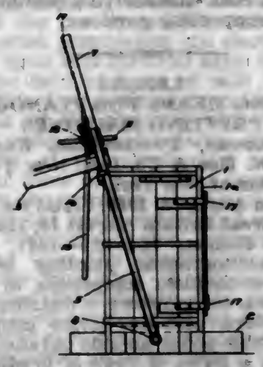
1. A bale forming mechanism for forming ventilated bales comprising a bale compressing

chamber, a plunger positioned for reciprocation within said chamber, said plunger having an opening therethrough, means connected to said plunger for reciprocating the same, toward and away from bale material in said chamber a bale piercing mechanism associated with said plunger, said mechanism including a piercing member reciprocally positioned in the opening and adapted to project outwardly from the plunger into the compressing chamber, means for moving said piercing member in a direction away from said chamber and said plunger including a spring connected to said piercing member, said spring being normally compressed during the movement of said plunger toward said bale material whereby said plunger is moved with the piercing member for compressing and piercing an opening in a bale,



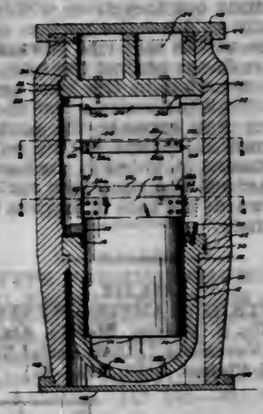
a latch engaging said spring for locking said spring in the compressed position, a release means for said latch, said release means including a pressure responsive member movable with the plunger, means connecting said pressure responsive member with said latch whereby during a predetermined pressure on said pressure responsive means said latch is released and said spring is released from compression thereby substantially withdrawing said piercing member from said chamber and moving the same relative to said plunger, and means engaging said spring for compressing the same to again lock said spring in engagement with the latch during movement of the plunger away from the formed bale whereby said piercing member again projects from the plunger into said compressing chamber.

2,654,309
VERTICAL BALING PRESS
Einar Julius Jakob Jonsson, Stockholm, Sweden
Application June 7, 1949, Serial No. 97,639
In Sweden September 10, 1946
1 Claim. (Cl. 100—228)



A vertical baling press comprising in combination an open upper end container, a support for said container, a pivot rod secured in said support below said container, a yoke mounted on said pivot rod, said yoke having an intermediate portion extending across said open upper end of said container and having openings therethrough, a shaft rotatably journalled in said intermediate portion, shaft rotating means attached to an end of said shaft, toothed gears secured on said shaft, piston rods having rack teeth thereon slidably positioned in said openings in said intermediate portion, said toothed gears and said rack teeth coacting for vertical movement of said piston rods, a press piston, said press piston having guiding tracks in the top surface thereof, and slide shoes on the lower ends of said piston rods inserted in said guiding tracks of said piston, said shaft rotating means upon actuation thereof rotating said toothed gears for raising and lowering said piston rods by coaction with said rack teeth and moving said piston in said container, said yoke, when said piston is raised above the top of said container, being adapted for angular movement to move said piston over said open end and said piston being adapted to slide on said slide shoes whereby the upper end of said container is left free.

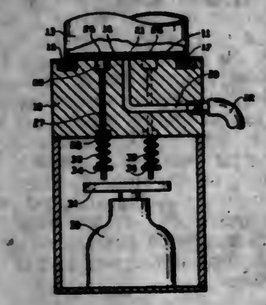
2,654,310
CURVED SIDE PLATE HYDRAULIC PRESS
Johan A. Muller, Cuyahoga Falls, Ohio, assignor to Adamson United Company, Akron, Ohio, a corporation of Ohio
Application October 22, 1949, Serial No. 122,977
5 Claims. (Cl. 100—269)



4. A hydraulic press including a cup-shaped cylinder, a ram slidably mounted in the cylinder, a press head having portions of substantially arcuate shape, at least one of said portions being of substantially the same external diameter as one portion of the cylinder, a pair of curved side plates each extending through approximately ninety degrees and formed to the curvature of the common diameter portions of the cylinder and head, cooperating groove and flange means formed on the side plates and the cylinder and head to position the cylinder and head on the side plates with their adjacent faces in an opposed parallel relation, a top and a bottom plate for the press, and arcuate shoulder means on each of the top and bottom plates for securing the upper and lower ends of the side plates in locking relationship with the head and the cylinder respectively.

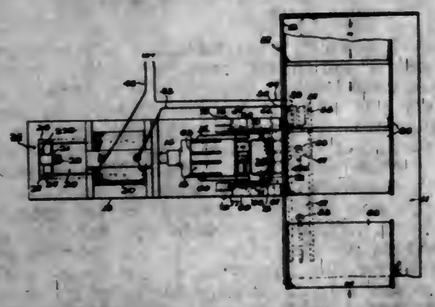
5. A hydraulic press as in claim 4 wherein the cooperating groove and flange means are spaced axially of the press from both the top and the bottom plates, and wherein the head and the cylinder have external portions of the same diameter snugly engaging the side plates.

2,654,311
SURFACE MARKING DEVICE FOR CONTAINERS
Carmen A. Costanzo, Vancouver, British Columbia, Canada
Application October 30, 1948, Serial No. 57,547
4 Claims. (Cl. 101—4)



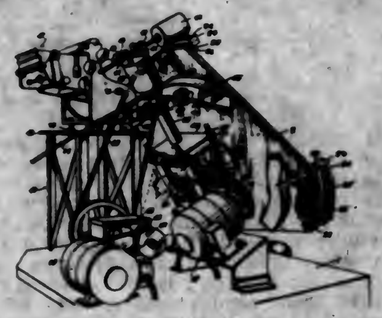
1. A device for permanently marking without deforming thin surfaces of closed containers, such as food cans, having an annular flange projecting outwardly from the surface around the area to be marked, comprising a base having a working face, an annular sealing ring formed of compressible material mounted in the face substantially flush therewith against which the flange of a container may be placed, suction means in the base opening out therefrom within the sealing ring firmly to draw the portion of the container surface within said ring towards the base and the centre flange against the ring, a marking die movably mounted in the base and opening outwardly through the working face thereof within the sealing ring opposite the container surface to be marked, indicia on the outer end of the die, and means mounted at the base for moving the die against the container surface drawn by suction towards the base to impress the indicia into said surface.

2,654,312
ELECTRIC STAMPING SYSTEM
Willis E. Phipps, Mobile, Ala.
Application November 7, 1949, Serial No. 125,970
6 Claims. (Cl. 101—35)



1. In an electric stamping apparatus the combination comprising a base, means on the base feeding by gravity containers to be stamped along a path, stamping means on the base reciprocatable laterally of said path, spring means on the base urging the stamping means away from said path, electromagnetic means on the base and when energized moving the stamping means toward the path to stamp a container thereon, switch means adjustably movable on the feeding means along said path and connected to the circuit of the electromagnetic means and including a switch operating shaft projecting above the plane of the feeding means and depressable by a container, the switch means also including a pair of contacts urged to open position, and means acted upon by the operating shaft in the first part of its downward motion which close the contacts, the continued motion of the said shaft opening said contacts.

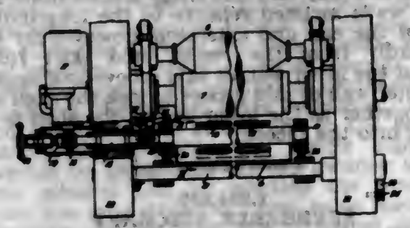
2,654,313
MACHINE FOR DECORATING ARTICLES SUCH AS CUPS, PITCHERS, BOWLS, AND THE LIKE
James Kenneth O'Hare, Alliance, Ohio, assignor to Royal China Inc., Sebring, Ohio, a corporation of Ohio
Application September 24, 1949, Serial No. 117,611
10 Claims. (Cl. 101—38)



1. A machine for applying decorations to the exterior surfaces of articles, comprising the combination of means for supporting an article to be decorated, a rotatable structure having a plurality of angularly spaced stamp-supporting portions each located a greater radial distance from the axis of rotation of the structure than intermediate portions of the structure, a plurality of stamps on said stamp-supporting portions and movable successively into contact with articles on said article support, color supplying means spaced from said stamp-supporting portions, color-transfer means, and means for oscillating said color-transfer means between a color receiving position adjacent said color supplying means and behind the plane of said supporting means and a color-transferring position adjacent said stamp supporting portions.

2,654,314
MOISTENING MEANS FOR PLANOGRAPHIC PRINTING MACHINES
Arthur Southway, Twickenham, England, assignor to R. Hoe & Co. Inc., New York, N. Y., a corporation of New York
Application August 8, 1950, Serial No. 178,256
In Great Britain August 10, 1949
2 Claims. (Cl. 101—148)

1. In a planographic printing machine a moistening mechanism comprising in combination a fountain for moisture, a distributing roller and a moisture pick-up device comprising a spindle rotatable about an axis parallel with that of the roller, a series of rows of bristles secured at their root ends to supporting bars detachably held on members secured on the spindle, means adjustably supporting the spindle so that its rotation carries the rows of bristles through the fountain and into wiping engagement with the roller and permitting movement of the spindle transversely of its axis, and a coupling device drivingly connecting the spindle with a variable speed



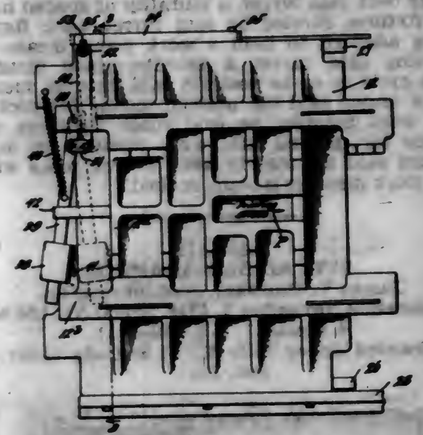
driving device secured in fixed position on the machine.

2,654,315
PROCESS OF MULTICOLOR ELECTRONOGRAPHIC PRINTING
William C. Huebner, New York, N. Y., assignor to The Huebner Company, Dayton, Ohio, a corporation of Ohio
Application May 15, 1947, Serial No. 748,310
1 Claim. (Cl. 101—211)



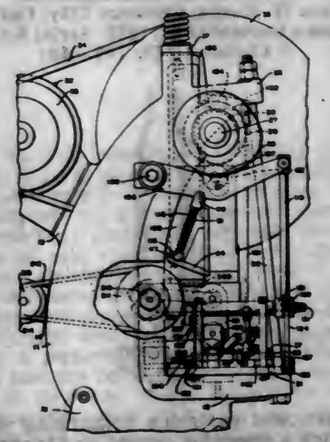
The method of reproducing an image in color upon print receiving material and which comprises providing a plurality of printing couples arranged in sequential order and each including a printing member carrying at least a portion of the image to be reproduced, inking the image on the printing member of each of the couples with a colored ink which differs in color from that of the inks employed upon the other printing members, impressing an electrical precharge upon the ink after it is on the image carried by each member, creating an electro field of force at the printing zone for each couple, eliminating any preexisting electrical charge on the print receiving material, thereafter impressing an electrical precharge of predetermined polarity and value on said material, introducing said precharged material into the field of force of the first of said printing couples thereby effecting transfer of the precharged ink from the image to the material, eliminating the electrical charge remaining upon said material after it has passed through the field of force of said first couple; and repeating in succession for each couple the precharging of the material with an electrical charge of predetermined polarity and value, the introduction of the precharged material into the field of force of a printing couple with the image upon the printing member of each couple aligned with the image reproduced upon the material by operation of the preceding printing couple, and then the elimination of the electrical charge remaining on said material after it has passed through the field of force of a couple; the precharging of the ink upon the printing member of each couple and the precharging of the print receiving material prior to the introduction of the latter into the printing zone of that couple being effected by charges of opposite polarity; the precharge impressed upon the ink on the printing member of at least one of the printing couples being of opposite polarity to the precharge impressed upon the ink on other of the printing members of other of the couples.

2,654,316
PRINTING PRESS
Willard M. Pollock, Short Hills, N. J., assignor to American Type Founders, Inc., a corporation of New Jersey
Application September 29, 1949, Serial No. 118,998
10 Claims. (Cl. 101—233)



1. In a printing press, in combination, a printing couple, means supporting each member of said couple, respectively, for oscillatory movement, means for driving one member of said couple with an accelerating-decelerating motion, and gearing connecting said members to cause movement of one when the other is driven, said gearing including means responsive to change in velocity of one of said members for maintaining constant tooth contact and preventing relative movement of said members during a printing operation.

2,654,317
TYPE FORMING MACHINE
Clarence C. Rutbell, Endicott, and Julius Lusht, Endwell, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application July 14, 1951, Serial No. 236,754
5 Claims. (Cl. 101—401.5)



1. A cyclically operable type forming machine comprising, in combination, a stationary frame having a work table, a turret rotatably mounted

on said table, a work member, a die matrix rigidly secured to said work member, elongated guide members for said work member, means pivotally connecting said work member to one end of said guide members, means for pivotally connecting the other end of said guide members to said stationary frame, said last mentioned means being adjustable for positioning said work member laterally over said turret, a plurality of spaced holding fixtures carried by said turret, each fixture being adapted to hold a work piece, means for rotating said turret a predetermined distance each cycle so as to position said fixtures successively under said die matrix, means for rocking said work member on said guide members, and means for moving said work member so as to engage said die matrix with a work piece while said work member is being rocked.

2,654,318
SUBCALIBER ADAPTER
James V. Dunham, Jenkintown, Pa.
Application November 7, 1949, Serial No. 126,003
4 Claims. (Cl. 102—41)
(Granted under Title 35, U. S. Code (1952), sec. 266)



3. A cartridge having a subcaliber projectile, comprising: a conventional cartridge case; a cylindrical plug consisting of a necked portion which is press-fitted into the mouth end of the case, a head portion protruding from the case, and a shoulder at the juncture of the head and neck portions which abuts with and seals off the open case end, said plug having therethrough an axial opening; and a ring shaped boss projecting from said plug head portion for mating with the chamber and rear barrel end of a firearm to prevent leakage of powder gases emanating from the case past the subcaliber projectile fired through the barrel.

2,654,319
SECTIONAL CARTRIDGE
Jack W. Reske, Crescent City, Calif.
Application December 26, 1950, Serial No. 202,692
2 Claims. (Cl. 102—44)



2. A sectional cartridge comprising a plastic shell having a smoothly curved and tapered lower end portion, a skirt integrally formed with the lower end portion, a cup having a smoothly curved recess therein for receiving the lower end portion of the shell, the lower wall of said recess having a continuous groove therein, said groove having laterally and uniformly spaced inner and outer walls inclined relative to the longitudinal axis of the cap and extending downwardly and outwardly from the recess, said skirt riding against the inner wall of said groove and against the outer wall of said groove to lock the shell and cup together as the lower end of the shell is inserted into the recess.

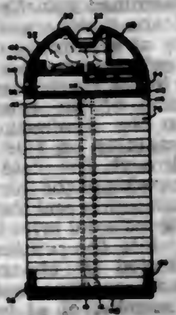
2,654,320
SEVERABLE AIRCRAFT
Roy J. Schmid, Camp Cooke, Calif.
Application March 7, 1949, Serial No. 80,053
11 Claims. (Cl. 102—49)
(Granted under Title 35, U. S. Code (1952), sec. 266)



5. A severable aircraft comprising a stern portion and a bow portion detachably secured together, propulsion means mounted in said stern portion for propelling said aircraft thru the air, a propeller rotatably mounted at the nose of said bow portion, the blades of said propeller being foldable against the sides of said bow portion and being movable into operative position out from said bow portion as the latter drops stern down, a motor in said bow portion connected to said propeller to rotate the same in helicopter fashion, stabilizing means on said bow portion to counteract the tendency of said bow portion to rotate, explosive means at the juncture of said portions effective upon detonation to sunder said aircraft at said juncture, and means for detonating said explosive means to allow said bow portion to drop stern down with said propeller checking the drop.

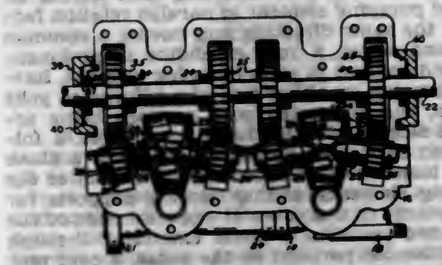
10. Sundering apparatus comprising a pair of bodies abutted together, one of said bodies having a groove therein adjacent the other body forming a cavity between the bodies, explosive material in said cavity, and fracturable pin means passing thru said cavity and securing said bodies together.

2,654,321
PROJECTILE METHOD AND MEANS
Marion B. Robinson, Great Neck, N. Y.
Application October 7, 1947, Serial No. 778,311
3 Claims. (Cl. 102—63)



1. A missile, comprising a nose member including a container for gas and a hollow windshield releasably mounted on the container; a collapsed balloon within the windshield; conduit means connecting the balloon and the gas container; a cap member spaced from the nose member; an elongated hollow supporting member extending between the nose member and the cap member; a series of spiral springs wound about the supporting member in contracted juxtaposition, the springs being connected together and being fastened at one end to the gas container; means within the hollow supporting member for separating the cap member and the nose member and for ejecting the windshield from the gas container; and valve means for releasing the gas from the container into the balloon upon the separation of the windshield from the container.

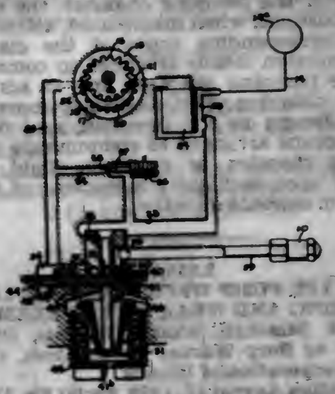
2,654,322
PUMP
Horace W. Olsen, Houston, Tex.
Application September 15, 1948, Serial No. 49,402
7 Claims. (Cl. 103—5)



1. A pump comprising a casing, two opposed impellers consisting of discs having vanes rigidly mounted on their adjacent faces, said impellers mounted for rotation within the casing about oblique axes and approaching each other at one point of their peripheries to closely intermesh the vanes, said impellers diverging from each other from said one point to a diametrically opposed point of their peripheries, said impellers being spaced apart at their axes to provide fluid communication between said points, an inlet opening in the casing at the peripheries of the impellers beginning at the point of greatest divergency of the impellers and extending circumferentially over a portion of the impellers in a direction opposite to the impellers' rotational direction, a discharge opening in the casing at the peripheries of the impellers beginning at the point of closest approach of said impellers and extending circumferentially over a portion of the impellers in a direction opposite to the impellers' rotational direction, and drive means for rotating the impellers.

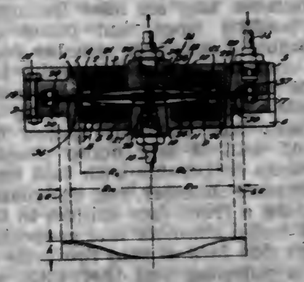
2,654,323
MOTOR-DRIVEN FLUID DISTRIBUTION SYSTEM
Gunnar A. Wahlmark, Rockford, Ill.
Application May 29, 1950, Serial No. 164,886
7 Claims. (Cl. 103—39)

1. The combination of, a fluid pump having an inlet and an outlet, an electric motor for driving said pump, a valve controlling the flow of fluid out of said outlet, a member for actuating said valve movable between valve-open and valve-closed positions, means yieldably urging said member toward said valve-closed position, said member having a pressure area acted on by the fluid in said outlet to urge the member toward said open position in opposition to said yieldable means, an additional pressure area on said member exposed to the fluid in said outlet when the valve is open to substantially increase the force opposing said yieldable means, and means defining a restricted by-passage communicating with said pump outlet and permitting the continuous escape of fluid out of said outlet during



operation of said pump within a low speed range of operation of said motor, said by-passage remaining open in the continued operation of said pump and acting to limit the rate of by-pass sufficiently to permit the outlet pressure acting on said first area to overcome said yieldable means and cause the valve opening movement of said member when the motor has attained a predetermined higher speed.

2,654,324
ELECTROMAGNETIC PUMPING DEVICE FOR PUMPING FLUIDS
Anton Ryba, Bolzano, Italy
Application September 2, 1950, Serial No. 182,981
In Austria September 5, 1949
9 Claims. (Cl. 103—53)



1. In an electromagnetic pumping device for pumping a fluid, in combination a housing, electromagnetic means within the housing including a plurality of ring-shaped magnetizable portions in concentric arrangement, adjacent face sides on one side of said ring portions being disposed in a special relationship so as to form a substantially continuous inwardly curved circular surface, armature means in form of a flexible circular diaphragm disposed within the housing so as to form a pumping chamber between the diaphragm and the continuous surface, said housing having in its inner wall a peripheral recess defining opposite outer wall portions disposed adjacent to said continuous surface and slanted so as to form substantially a continuation thereof, said recess further defining opposite inner wall portions disposed parallel to each other, the pe-

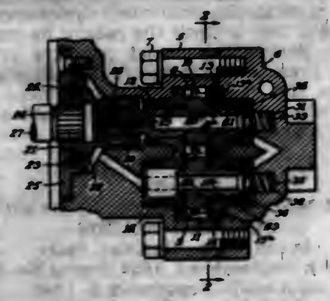
ripheral rim of the diaphragm being extended into and held between the parallel wall-portions of the inner recess portion, the curvature of the continuous surface corresponding to the configuration of the diaphragm in flexed position, electric means for intermittently energizing said concentric magnetizable portions so as to cause the diaphragm to oscillate thereby varying the capacity of the pumping chamber, the said concentric portions, when magnetized, attracting adjacent corresponding zones of the diaphragm, fluid admission means arranged to communicate with the pumping chamber and to admit fluid into the chamber upon oscillatory movement of the diaphragm in one direction, and fluid discharge means arranged to comnunicate with the pumping chamber to discharge fluid from a chamber upon oscillatory movement of the diaphragm in opposite direction.

2,654,325

GEAR TYPE PUMP WITH PRESSURE LOADED BUSHING AND WEAR INSERT ELEMENT

Robert J. Minshall, Shaker Heights, Ohio, assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application August 11, 1950, Serial No. 178,939
4 Claims. (Cl. 103—126)



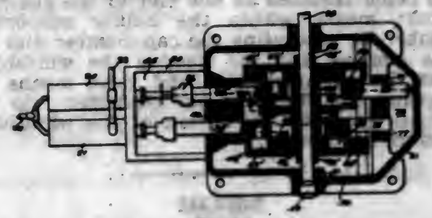
1. A liquid pump comprising a housing having a pump chamber and an inlet leading to and an outlet leading from said pump chamber, means including a rotatable member received in said pump chamber for forcing liquid from said inlet out of said housing through said outlet, an end plate assembly in said pump chamber having a back face normally spaced from the adjacent end wall of said pump chamber and having portions cooperable with said housing to provide a pressure chamber, said end plate assembly also having a front face subject to the pressure in said pump chamber and cooperable with the adjacent side face of said rotatable member to provide a pumping seal therewith, said end plate assembly including an annular disc-like member which can be moved axially independently of said back face providing at one side thereof said front face and having an inner dimension such that a relief recess is formed to limit the sealing area between said side face and said front face; means establishing communication between said relief recess and said inlet and means establishing communication between said pressure chamber at the back face of said plate and said outlet, the relation of the area of said back face to said sealing area being such that the force acting upon said back face of said end plate always exceeds slightly the force acting upon said front face of said end plate whereby to maintain said pumping seal without excessive friction, wear or lost volumetric efficiency.

2,654,326

CONSTANT DELIVERY PUMP

Robert T. Sheen, Wyndmoor, Pa., Royal Bartlett Saalfrank, Gulfport, Fla., and John W. Welker, Jenkintown, Pa., assignors to Milton Roy Company, Chestnut Hill, Pa., a corporation of Pennsylvania

Application October 7, 1948, Serial No. 53,232
2 Claims. (Cl. 103—170)



1. In a pump having constant delivery at any setting and variable delivery constant throughout the cycle at various settings, a plurality of pumps aligned side by side and each having an aligned pumping element in parallel relation facing in the same direction and having a common inlet and outlet, a yoke extending in prolongation and secured to each pumping element, having a bearing on either side of a bifurcated yoke portion, the bifurcated yoke portions being arranged side by side in the various yokes, a follower on each yoke having its center in a plane which includes the center lines of motion of the pumping elements, sliding bearing supports for the portions of the yokes at opposite ends of the bifurcated portions, a shaft extending through the bifurcated portions of the yokes, a cam unit comprising a cam for each follower and cooperating therewith, a gear between the cams, a bushing on the interior of the cam unit journaling on the shaft and connecting means extending through the cams through the bifurcated portions of the yokes and through the gear and uniting the same together to form the cam unit, a stationary cam shaft extending through the bushing, and having support at the opposite ends of the shaft on either side of the cam unit, a drive having a gear interconnected with the gear on the cam unit and a speed changer on the drive.

2,654,327

FREIGHT CAR

Arthur L. Simpson, Toledo, Ohio, assignor to The New York Central Railroad Company, a corporation of Ohio

Application August 8, 1951, Serial No. 240,249
2 Claims. (Cl. 105—382)



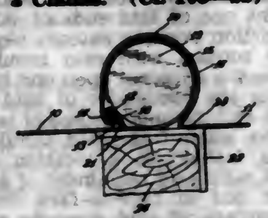
1. In a railroad car adapted to transporting railroad ties and units of similar elongated structure loaded parallel to the car length and to unloading through the side areas thereof, a car chassis including a load bearing car floor, transverse end- and mid-bulkheads secured to the chassis of the car and dividing the freight space thereof into compartments, a longitudinal member at each side of the car secured to the said bulkheads and spaced above the car floor, side stake members having upper ends individually hinged to said longitudinal member and lower ends normally disposed against the outer side of the car chassis below the level of the car floor, whereby the side stake members are individually swingable outwardly relative to said car, said side stake members being disposed along each side of the car in groups, each group providing lateral load support for an individual section of a freight compartment, and locking means for each said group releasably locking the lower ends of side stake members thereof against the side of the car chassis in load retaining position, the locking means for each said group being operable from a position removed from the section controlled thereby.

2,654,328

JOINT FOR ROOFING OR LIKE SHEETS

Patrick E. McCullough, Chicago, Ill.

Application September 27, 1951, Serial No. 248,598
3 Claims. (Cl. 108—32)



1. A joint for a pair of sheets along their contacting edges comprising a generally cylindrical rib extending along one edge of one of said sheets, a hook projecting from the surface of said sheet and on the same side thereof as said rib, said hook being turned away from said rib, an arcuate upwardly extending marginal portion along the edge of the other of said sheets, a flap extending from said arcuate portion and in an integral relation therewith, and a hook extending along the marginal free edge of said flap, said hook being turned toward said arcuate portion in position to engage the hook on said first mentioned sheet when said flap is bent in an embracing relation with said rib.

2,654,329

BLOWPIPE EMPLOYING ADJUVANT POWDER FOR THERMOCHEMICALLY REMOVING MATERIAL

David H. Fleming, Jr., Orange, N. J., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

Application July 2, 1946, Serial No. 680,962
17 Claims. (Cl. 110—22)



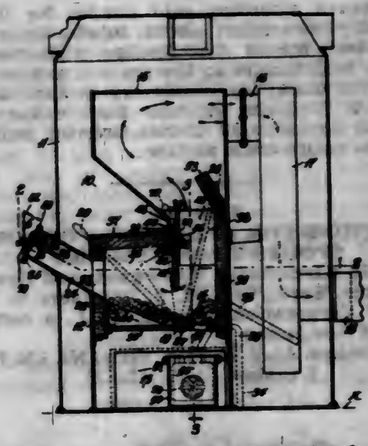
1. Apparatus for thermochemical removal of material from a body of such material which comprises means for directing against said body a stream of material-removing oxygen and a preheat flame envelope surrounding said oxygen stream, and means for directing a plurality of streams of adjuvant powder from orifices equally spaced around and outside said preheat flame envelope in converging relation through said preheat flame envelope toward said oxygen stream with components concurrent with said oxygen stream.

2,654,330

FURNACE FOR BURNING SOLID FUELS SUCH AS BITUMINOUS COAL AND DERIVATIVES THEREOF

James A. Wersham, Maplewood, Mo.

Application August 6, 1948, Serial No. 42,844
2 Claims. (Cl. 110—24)



1. A furnace comprising a fire pot, a horizontal grate consisting of a front coking section and a rear burning section for said fire pot, means for rotatably supporting said burning section adjacent its rearmost side for dumping burned residue therefrom over its front side, means forming an ash pit for the furnace, air inlet control damper means for the ash pit of the furnace to supply air for starting a fire, means for rotatably supporting said coking section adjacent its rearmost side and so arranged that upon rotation the coked fuel material will be placed by gravity on said burning section, a baffle swingably mounted in said fire pot and disposed in a plane in substantial alignment with the rotational axis of the burning section, said baffle directing the coking gases over the burning section for combustion, a fuel tube for introducing fuel into said coking section, said fuel tube having an air supply opening, air control means in said fuel tube for damping the air supplied to the coking section and through the fuel to continue combustion in said furnace; and a door for said fire pot disposed above said burning section for access thereto in starting a fire and for inspection of the swingable baffle.

2,654,331

STOKER APPARATUS

Donald J. Meeuhart, Ardmore, Pa., assignor, by mesne assignments, to Detroit Stoker Company, a corporation of Michigan

Application May 26, 1950, Serial No. 164,347
3 Claims. (Cl. 110—104)

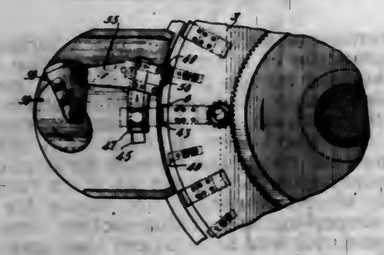
1. In a furnace, front, rear and side walls defining a combustion chamber; grate structure

forming a bottom for said chamber; one or more spreader-type stokers associated with said front wall for feeding fuel to the grate structure through corresponding openings in said front wall; a nozzle associated with each of said side walls, one of said nozzles being near the front wall and the other nozzle being near the rear



wall; means mounting said nozzles for limited oscillatory movement about substantially vertical axes; means for feeding airborne fuel through said nozzles to the grate structure; and means for imparting oscillatory motion to said nozzles to feed the airborne fuel to the grate over two segments of circles covering substantially the entire grate surface.

2,654,332
MACHINE FOR ATTACHING POURING SPOUTS TO CONTAINERS
Milton H. Klausmann, Maplewood, and Henry J. Brucker, Springfield, N. J., assignors to Seal-Spout Corporation, Newark, N. J., a corporation of New Jersey
Application April 19, 1950, Serial No. 156,784
7 Claims. (Cl. 113—1)



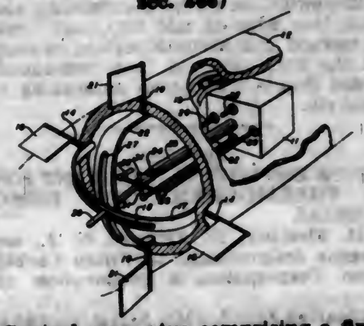
1. A machine for attaching parts to articles comprising a support, a carriage on said support having a carrier thereon for holding and moving the article and movable in a predetermined path, a unit to hold a part and movable alternately in opposite directions, means to move said unit in one direction momentarily synchronously with said carrier along a portion of said path including cooperative normally disengaged elements one on said carriage and the other on said unit and engageable during movement of said carriage to move said unit, auxiliary mechanism other than said elements including a driving member mounted on the support and an actuating member on said unit operatively associated with the driving member to cause the actuating member to be moved in timed relation to the movement of said carriage for initiating movement of said unit in said direction prior to engagement of said elements and for continuing such movement at a speed slightly less than that of the carriage until engagement of said elements, and means on said unit for attaching a part to an article during each said movement of said unit with the carrier.

2,654,333
PROCESS OF MAKING FOOTWEAR HOOKS
Adalberto Steinberg and Alfredo Cavadini, Milan, Italy
Application February 15, 1950, Serial No. 144,264
In Italy February 17, 1949
1 Claim. (Cl. 113—116)



The process of manufacturing hook-shaped articles from a substantially flat and elongated blank of sheet material, comprising the steps of first deep-drawing at a location of said blank intermediate opposite ends thereof to thereby obtain an open-ended tubular part integral with and extending from the upper surface through the lower surface of said blank and substantially below the latter at said location, bending a portion adjacent one of said ends of said blank so that said portion overlies, extends beyond and is in intimate contact with said tubular part to thereby close the adjacent open end thereof, and then shaping the remainder of said portion of said one end and the opposite end of said blank so as to extend same from said tubular part in hook-shaped fashion to a location above said tubular part, with said remainder of said portion of said one end in face-to-face contact with the inner surface of said opposite end of said blank.

2,654,334
TORPEDO WITH ROLLING HULL
Chester C. Wheeler, Altadena, Calif.
Application July 20, 1950, Serial No. 174,983
14 Claims. (Cl. 114—23)
(Granted under Title 35, U. S. Code (1952), sec. 266)

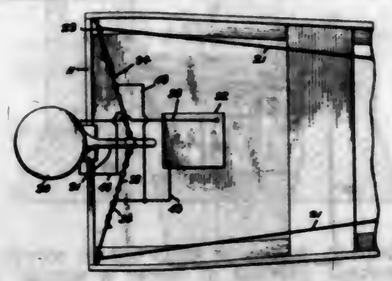


14. Control apparatus comprising a first body, a second body rotatably mounted on said first body about a first axis, a first yoke having a first pair of aligned shafts projecting therefrom and journaled in said second body, the axis of said first pair of shafts passing perpendicularly thru said first axis, a second yoke having a second pair of aligned shafts projecting therefrom journaled in said second body, the axis of said second pair of shafts passing thru the juncture of said first mentioned axis and perpendicular to each axis, and a control rod engaging said yokes.

2,654,335
BOAT PROPELLING AND STEERING MECHANISM
Fred S. Ball, Montgomery, Ala.
Application October 21, 1948, Serial No. 55,703
2 Claims. (Cl. 114—153)

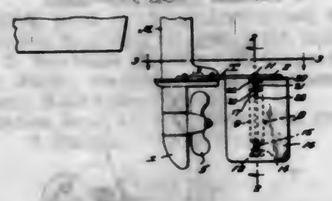
1. In combination, a motor, a source of energy and an electric circuit including said motor and

source and an oscillatory tiller connected to said motor to move the same; a movable stirrup, a yoke connected at one end to said tiller, a slide pin movable longitudinally within said yoke and projecting beyond the opposite end of said yoke, a contact plate on said pin, means within said yoke tending to hold said plate out of contact



with said yoke, a cable connecting the outer end of said pin with said stirrup, and said circuit including said yoke and said contact pin, whereby movement of the stirrup in one direction will cause said contact plate to move into contact with said yoke and to simultaneously move said tiller.

2,654,336
TROLLING PLATE
Barney L. Katzung and Manvill A. Reim, Albert Lea, Minn.
Application January 31, 1950, Serial No. 141,390
3 Claims. (Cl. 115—0.5)



1. In combination with an outboard motor having a propeller, a trolling device, comprising a plate for securement to the housing of said outboard motor, means for securing the plate to such housing to extend substantially horizontally rearwardly therefrom immediately above the motor propeller, an elongate bracket positioned beneath the plate with one end against the underside of the plate, an elongate pivot member attached at one end to the plate and extending downwardly through and supporting the bracket for turning movement on an axis extending lengthwise thereof, an elongate flat blade disposed below the plate and secured along a central longitudinal line to and extending lengthwise of the bracket to turn with the bracket as a unit on said axis, a latch pin secured to said bracket and blade forming unit at the top thereof for movement relative to the underside of the plate, resilient means urging movement of the pin toward the plate, and means for releasably coupling the pin with the plate at either of two locations to secure the unit in a position in which the blade is disposed in a plane perpendicular to the line of thrust of the propeller or in a position in which the blade is in a plane extending parallel to the line of thrust of the propeller.

2,654,337
TIRE ALARM
Robert C. Fidler, Los Angeles, Calif.
Application October 23, 1951, Serial No. 252,677
4 Claims. (Cl. 116—34)



1. A tire alarm signal device comprising: a mounting flange adapted to be mounted on a wheel rim; a pair of elongated flexible sounding strips extending from said flange in mutual supporting relationship with one of said strips being positioned for contact with the side wall of a tire mounted on said rim, said strips being pretensioned into an outwardly convex transverse curvature and being placed face-to-face to define an elongated inner chamber; and means clamping the outer ends of said strips together while permitting relative sliding movement therebetween.

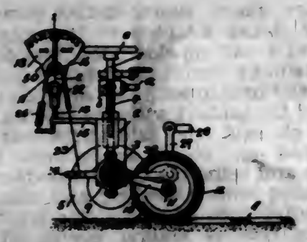
2,654,338
AUTOMATIC FISH SET
Raymond L. Deal, Hudson, Wis.
Application June 15, 1951, Serial No. 231,790
1 Claim. (Cl. 116—114)



In an automatic signalling device for ice fishing, a rigid sleeve member, a plunger slidably mounted in said sleeve member, an upwardly extending plunger rod secured axially to said plunger, spring means biasing said plunger upwardly in said sleeve member, a flag element secured to the upper portion of said plunger rod and arranged to be exposed responsive to upward movement of the plunger, a sealing sleeve of deformable elastic material secured around the top portion of said sleeve member and projecting above the top edge of said sleeve member, a rigid cover member secured to said plunger rod above the flag element and having an integral annular marginal flange arranged to sealingly engage the top

edge of said sealing sleeve when said plunger is in depressed position, a centrally apertured disc member secured in the upper portion of the sleeve member below the flag element and slidably receiving the plunger rod, said disc member being arranged to support the plunger rod for axial movement in the sleeve member and defining a barrier against the passage of moisture into the lower portion of the sleeve member, and means for releasably securing said plunger in depressed position with said flange in sealing engagement with said top edge.

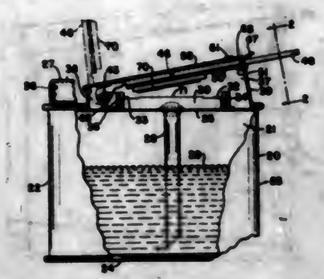
2,654,239
INDICATOR FOR WORKING POSITION OF AGRICULTURAL TOOLS
John Sperling, Dalmeny, Saskatchewan, Canada
Application December 19, 1949, Serial No. 133,727
2 Claims. (Cl. 116—124)



1. In an agricultural implement in combination a frame mounted on ground wheels; agricultural tools to function a given distance above or below the surface of the soil; means whereby said tools are coupled to said frame to normally rise and fall therewith according to the state of the soil said implement is passing over; releasable lever means carried by said frame and firmly coupled to the coupling means for said tools and under the manual control of the driver of the implement whereby said tools may be definitely raised and lowered on said first-mentioned means independently of any vertical movements of said frame; an indicator carried by said frame to rise and fall therewith without functioning, comprising a plate provided with suitable indicia to show what location said tools are working in; a movable pointer associated with said plate and manually set in relation to the indicia thereon to show in what location said tools have been set to initially work in, and spring-provided flexible means coupling said lever means to said pointer whereby as said tools are being manually moved to restore them to their initial working location after being moved therefrom by the rise or fall of said frame, said pointer will be simultaneously moved as said tools are so moved, to bring it back to its original position thereby indication that the tools have been restored to the desired working location.

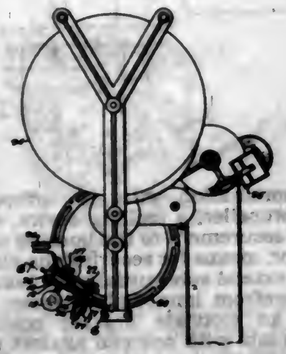
2,654,240
PRINTING PLATE INKER
Charles G. Dudis and Robert F. Du Bois, Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application July 13, 1951, Serial No. 236,562
6 Claims. (Cl. 118—253)

1. In a device of the class described, the combination of a fluid chamber, a fluid-wettable pad mounted on said chamber, a pipe connecting the interior of the chamber with said pad whereby fluid is transmitted from the chamber to the pad, a pivoted receptacle mounted on said chamber adapted to receive a porous printing member when in retracted position, said receptacle and printing member being manually movable on the pivot of the receptacle to move the printing member into contact with the pad, said porous printing member capable of absorbing fluid from the pad when in contact therewith, means to limit the



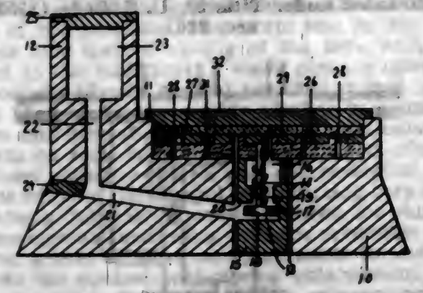
pivotal movement of the receptacle to control the contact pressure between the printing member and the pad, and resilient means to restore the receptacle to original position upon release thereof, to thereby maintain the receptacle in a position wherein the printing member is out of contact with the pad while being withdrawn from, or inserted into, the receptacle.

2,654,241
BOTTLE CROWN CAP ASSEMBLING MACHINE GLUING ATTACHMENT
Berthold Nagy, Brooklyn, N. Y.
Application March 6, 1951, Serial No. 214,074
4 Claims. (Cl. 118—255)



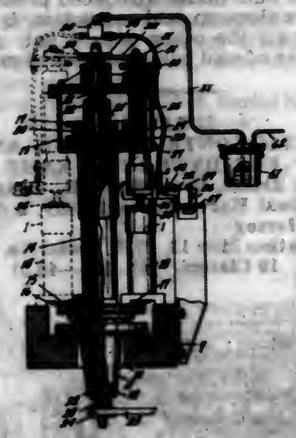
1. A gluing attachment for bottle crown cap assembling machines comprising a stand, a horizontally disposed shaft journaled in said stand, a dauber hub removably mounted on one end of the said shaft, a plurality of spaced radially disposed daubers extended from said dauber hub, a glue receptacle mounted on said stand, a glue carrying wheel journaled in said receptacle and positioned whereby the peripheral surface thereof is in contact with a dauber of the said dauber hub, and transmission means for rotating the said glue carrying wheel from the dauber hub whereby the surface speed of the wheel is less than the traveling speed of the daubers so that as one dauber leaves the surface of the wheel a following dauber contacts the surface of the wheel with the leading edge thereof substantially engaging the trailing edge of the area on the surface of the wheel contacted by the preceding dauber.

2,654,242
SELF-INKING RUBBER STAMP PAD
Harold G. Marriott, Ossaquaga, N. Y.
Application April 6, 1951, Serial No. 219,725
1 Claim. (Cl. 118—267)



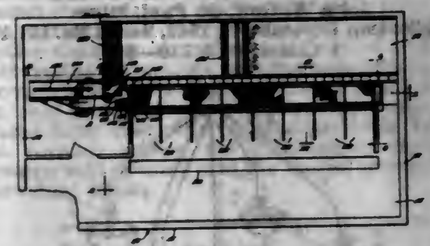
A device of the class described, comprising a body having a recess in the top thereof, said recess having an inking pad disposed therein adapted for applying ink to a rubber stamp, a portion at one end of said body rising above the other portion of the body, said raised portion containing a reservoir with a removable top cap as a means for filling same, means for automatically delivering ink to said pad consisting of passageways intercommunicating said reservoir and said recess, said passageways provided with a valve, a spring as a means for normally holding said valve in a closed position, said valve being mounted in the bottom portion of said body, and means operable for opening said valve by depressing said pad.

2,654,243
MACHINE FOR MANUFACTURING CONTAINER ELEMENTS AND THE LIKE
Wendell T. Burbank and Carl T. Colgren, Kalamazoo, Mich., assignors to Sutherland Paper Company, Kalamazoo, Mich.
Application June 21, 1951, Serial No. 232,855
8 Claims. (Cl. 118—317)



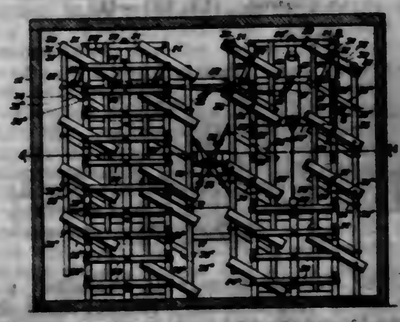
4. In a structure of the class described, the combination of a travelling work support, a travelling carrier, a reciprocatingly mounted spindle, means for reciprocating the spindle in timed relation to the travel of the work support, a driven shaft carried by said spindle to reciprocate therewith, a distributor on said shaft, and means including a positively driven displacement element for delivering measured charges to the distributor.

2,654,244
MECHANIZED FEEDING MECHANISM FOR ANIMALS
Walter R. Peterson, Hinsdale, and Adalbert C. Radtke, Oak Park, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application August 29, 1947, Serial No. 771,250
10 Claims. (Cl. 119—16)



1. A dairy establishment comprising in combination, a farm building having a plurality of stationary animal stalls, each stall having a feeding end, a feeding device for supplying feed to the animals in the stalls, said device including an endless manger belt positioned laterally with respect to the stalls and being adapted to move feed adjacent the feeding end of each stall, power means connected to said manger belt for moving the same, means for supplying feed to said manger belt, said means including a shredder mechanism, means supporting said shredder mechanism and said manger belt with said shredder mechanism being positioned above and adjacent one end of said manger belt, and power means connected to said shredder mechanism for driving the same, and control means connected to said manger belt and said shredder mechanism for controlling the shredder mechanism whereby baled feed supplied to said shredder mechanism is shredded and deposited by said shredder mechanism on said moving manger belt.

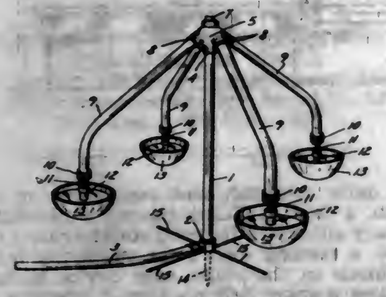
2,654,245
INCUBATOR
George S. Edwards, Greencastle, Pa., assignor to Valley Mechanical Co., Inc., Greencastle, Pa., a corporation of Pennsylvania
Application January 14, 1948, Serial No. 2,165
17 Claims. (Cl. 119—37)



1. In an incubator, a stack frame having upright and transverse members, a tilting bar on the frame supported for up and down movement, spaced pins on said bar, spaced pivots on an upright, tray rods suspended at one end from said pivots and journaled in the frame at their outer ends, trays movable endwise into position in a stack, the trays having notches underneath to fit over a tray rod and also having at one end a pair

of holes positioned to engage respectively with a pin on a tilting bar and with one of said pivots, a rotary fan, driving means for the fan, and interconnected means for tilting the trays at predetermined intervals and for simultaneously reversing the direction of rotation of the fan.

2,654,346
POULTRY WATERING DEVICE
John W. Goff, St. Paul, Minn.
Application December 5, 1949, Serial No. 131,123
1 Claim. (Cl. 119—81)



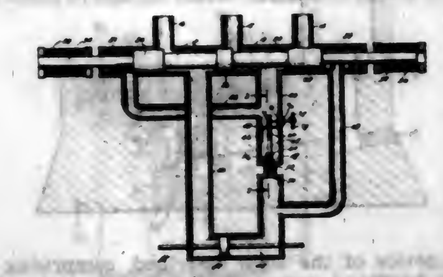
In a device of the class described, an upright water supply pipe having a water supply conduit fitting at its lower end, a hollow head rigidly supported on the upper end of the pipe in communication therewith, a plurality of circumferentially spaced tubular water conducting arms in communication with said head and extending generally radially outwardly therefrom and terminating in downwardly directed end portions parallel with said pipe, a water receiving bowl and flow regulating device supported by each of said end portions, and means for retaining said pipe in upright position including a ground penetrating spike depending from said fitting and a plurality of ground engageable arms projecting radially from the spike.

2,654,347
COMBINED POWER STEERING AND SHIMMY DAMPENING
Warren H. Clark, Glendale, Calif., assignor to United Aircraft Products, Inc., Dayton, Ohio, a corporation of Ohio
Application September 8, 1950, Serial No. 183,862
4 Claims. (Cl. 121—41)



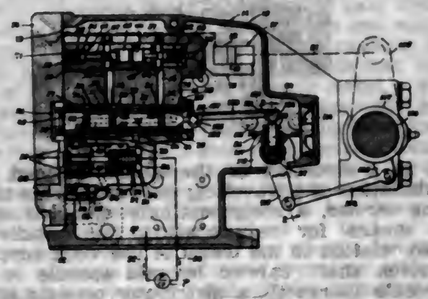
1. Power steering apparatus, including a rotatable power output shaft, a control input shaft arranged for rotary and axial motions, said input shaft being received in one end of said output shaft, pin-in-slot connection between said input shaft and said output shaft resolving a relative rotary motion between said shafts into an axial motion of said input shaft, and a hydraulic servo-motor for rotating said output shaft, said motor including a slide valve on the inner end of said input shaft.

2,654,348
LOAD COMPENSATED TRANSFER VALVE
Cyrus Beck, Philadelphia, Pa.
Application September 19, 1952, Serial No. 310,570
12 Claims. (Cl. 121—41)
(Granted under Title 35, U. S. Code (1952), sec. 266)



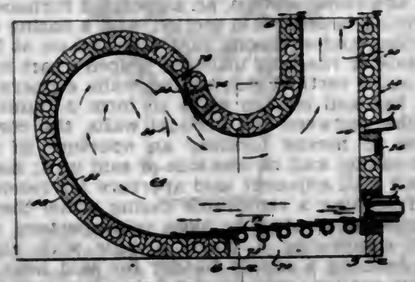
1. In a fluid-pressure system, a valve chamber having fluid pressure inlet and outlet ports, a balanced type valve in said chamber, said valve being normally in a position to close said inlet and outlet ports, but being adapted to open said ports upon disturbance of the balancing forces controlling said valve, a first conduit extending from said valve chamber to one end of a servo-chamber for allowing fluid under pressure to flow from said valve chamber to said servo-chamber to actuate a servo mechanism, a second conduit extending from the opposite end of said servo-chamber back to said valve chamber, a pair of conduits each extending from said first conduit to a balancing chamber formed behind opposite ends of said valve, said pair of conduits having fluid connections with said first conduit which are spaced from each other longitudinally of said first conduit, and a restriction formed in said first conduit between the fluid connections of said pair of conduits with said first conduit, whereby fluid under pressure from said valve chamber is enabled to flow through one of said pair of conduits to one of said balancing chambers while fluid under a reduced pressure, due to its passage through said restriction, is enabled to flow through the other of said pair of conduits to the other of said balancing chambers.

2,654,349
HYDRAULIC CONTROL CIRCUIT AND VALVE FOR HYDRAULIC RAMS
Joseph F. Zlakal, Brookfield, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application May 13, 1952, Serial No. 287,647
10 Claims. (Cl. 121—46.5)



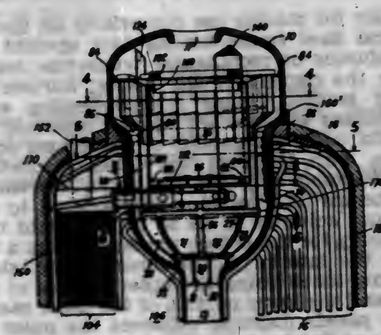
6. A fluid controlling valve comprising a valve body having a plunger-receiving bore with opposite ends, said body containing reversible flow ports spaced apart axially of said bore and communicating therewith, an inlet port communicating with the bore between the reversible flow ports, and a control port communicating with the bore at a position spaced axially thereof from one of the reversible flow ports and on the opposite side thereof axially of the bore with respect to the inlet port; a valve plunger movable oppositely from a neutral position in said bore, said plunger having a body smaller in diameter than said bore and axially spaced radial enlargements on such body respectively in port-closing registry with the control port and reversible flow ports while in the neutral position, said bore containing a fluid inlet chamber between the plunger enlargements registering with the reversible flow ports, a first exhaust cavity adjacent to and between the control-port-closing enlargement and the reversible-flow-port-closing enlargement in registry with the one reversible flow port, a second exhaust cavity adjacent to and at the opposite side of the other reversible-flow-port-closing enlargement axially of the bore with respect to the fluid inlet chamber, and a control cavity at the opposite side of the control-port-closing enlargement with respect to the first exhaust cavity, channel means intercommunicating between the three recited cavities exclusively of said chamber, the reversible-flow-port-closing enlargements being operable according to the axial direction of plunger movement from the neutral to uncover and selectively communicate the reversible flow ports with the fluid inlet chamber while communicating the other of such ports with the exhaust cavity adjacent thereto, and the control-port-closing enlargement being operable to uncover the control port to establish communication thereof with said first exhaust cavity when the plunger is moved one way from neutral and to uncover the control port to establish communication thereof with the control cavity when the plunger is moved the opposite way from neutral.

2,654,350
COMBUSTION CHAMBER
Stephen L. Fitzpatrick, Detroit, Mich., assignor to Bickelgas System, Inc., Detroit, Mich., a corporation of Michigan
Application January 14, 1948, Serial No. 2,313
3 Claims. (Cl. 122—4)



1. A furnace comprising refractory material forming a combustion chamber having right-angularly related inlet and exhaust openings, the major portion of the combustion chamber disposed in front of the inlet and laterally of the exhaust opening, the wall of said chamber adjacent to the exhaust opening formed with a re-entrant portion and the latter defining a relatively restricted passage between the major portion of the chamber and said inlet and exhaust openings, whereby products of combustion charged to the combustion chamber through said inlet and said restricted passage are circulated in the combustion chamber before being returned through said restricted passage to the exhaust opening, the side of said re-entrant portion remote from said exhaust opening having an air inlet, a baffle arranged to deflect air entering the combustion chamber through said air inlet against the surface of said re-entrant portion and into said exhaust opening, the wall of the combustion chamber immediately in front of said fuel inlet having an opening opening exteriorly of the furnace, a plurality of plates covering said opening, said plates arranged in stepped relation and spaced from each other so that air from outside the furnace enters the combustion chamber through said opening and the spaces between the individual plates.

2,654,351
FLUID SEPARATOR
Johannes H. Ammon, Akron, Ohio, assignor to The Babcock & Wilcox Company, New York, N. Y., a corporation of New Jersey
Application February 1, 1949, Serial No. 73,985
2 Claims. (Cl. 122—459)



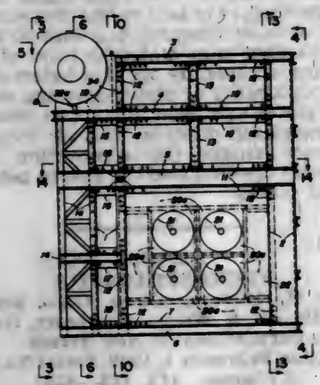
2. In a vapor and liquid separator, pressure vessel means forming a liquid and vapor chamber, a whirl chamber construction disposed within the liquid and vapor chamber so as to leave an annular inlet space between the whirl chamber and the liquid and vapor chamber, whirl chamber inlet constructions presenting a plurality of circumferentially distributed whirl chamber inlets for the substantially tangential flow of a liquid and vapor mixture into the whirl chamber from said space, means forming a separated vapor space above the whirl chamber and within the liquid and vapor chamber, a large diameter downcomer integral with the pressure vessel means and extending downwardly therefrom, a circular whirl chamber bottom of lesser diameter than the whirl chamber and spaced from the whirl chamber wall to provide for the outlet of separated liquid in an annular perimetrical zone adjacent the whirl chamber bottom, a vortex inhibitor between the outlet of the whirl chamber and the inlet of the downcomer, tubular connections disposed beneath the whirl chamber and having a part extending outwardly through the pressure vessel wall for conducting separated vapor to a position of further treatment, and upright tubular means within the pressure vessel and directly connecting the separated vapor space and said first mentioned tubular connections.

2,654,352

STEAM GENERATOR SUPPORT AND CASING STRUCTURE OF BOX COLUMN CONSTRUCTION

David M. Schoenfeld, Scarsdale, N. Y., assignor to Combustion Engineering, Inc., New York, N. Y., a corporation of Delaware

Application February 28, 1952, Serial No. 274,001
1 Claim. (Cl. 122—494)



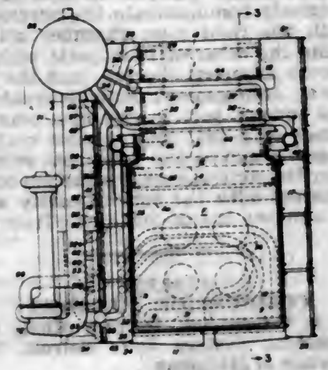
A boiler for marine use comprising an upright structural steel frame having four upright latticed columns of rectangular transverse section forming the corners of the frame; horizontally disposed latticed beams interconnecting adjacent columns at vertically spaced intervals, the inner and outer extremities of the beams corresponding with those of the columns; metallic panels disposed adjacent the inner extremities of the beams and columns and secured to said beams and columns so as to form a fluid tight inner casing for the boiler; means forming a bottom for the interior of the inner casing; steam generating tubes lining the inner surface of said bottom and the lower portion of the inner casing; metallic panels disposed adjacent the outer extremities of the beams and columns and held in fluid tight engagement therewith by removable clamps secured to said beams and engageable with said panels; a steam and water drum supported by two of said columns and secured to said outer panels in a fluid tight manner so that a portion of the drum wall forms a portion of the outer casing with the remainder of said outer casing being made up of said outer panels; means sealing the top and bottom of the space embraced by said inner and outer casings; one of said columns having an opening for the entrance of air; fuel burning means adjacent the lower portion of the frame for introducing fuel into the interior of the inner casing, said burning means having openings for the passage of air from the space between the casings into the interior of the inner casing; economizer, steam generating and superheating serpentine tube sections vertically spaced in the upper portion of the inner casings; headers for each of said tube sections and for the steam generating tubes in the lower portion of the casing, said headers being positioned within the space between the inner and outer casing and adjacent the place where the tubes of the associated tube section passes through the inner wall to connect to said headers; angled members extending throughout the length of said headers and welded thereto and to an adjacent part of said columns thereby supporting said headers from said latter columns; means sealing said headers to the inner casing so as to form a closed chamber encompassing the ends of the tubes connected to the respective headers; the return bends of the economizer tubes projecting through the inner casing wall, with the chamber that includes the headers for the economizer encompassing the bends at one end and a special fluid tight chamber formed to encompass the opposite bends at the other economizer end; a single distributing header at least a portion of the surface of which extends into the space between the casings; means pumping water from the steam and water drum into said distributing header; tubes extending entirely within said space and connecting said distributing header with the inlet headers of the steam generating tubes; and fluid conveying tubes extending entirely within said space and interconnecting the outlet headers of the economizer and the steam generating tubes and the inlet header of superheater tubes with the steam and water drum.

2,654,353

HEADER INTEGRAL WITH AND SEALED INTO BOILER CASING

Edward W. Ludt, Verona, N. J., assignor to Combustion Engineering, Inc., New York, N. Y., a corporation of Delaware

Application February 28, 1952, Serial No. 273,984
7 Claims. (Cl. 122—494)



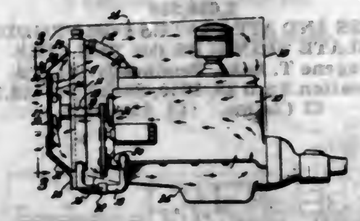
1. In a steam generating unit comprising a heat absorbing section, an associated furnace for supplying heat to said section, and a casing surrounding and enclosing said unit and on at least one side of the unit utilizing spaced apart inner and outer vertical side casing walls cooperating with top and bottom walls to form a fluidtight chamber between the vertical walls, the combination of means forming an aperture in said outer casing wall on one side of said unit; means on said wall adjacent said aperture for receiving and fastening a removable casing panel thereto in fluidtight contact to close said aperture, said panel comprising a plate; a tube with closed ends forming a supply header for said heat absorbing section, said header being fastened by a fluidtight joint along horizontal diametrically opposite elements coplanar and longitudinally within an aperture of said plate leaving a substantial portion of the peripheral surface of said tube on opposite sides of said plate; an inlet pipe into said tube on the outer side of said plate; and an outlet pipe from said tube on the inner side of said plate and connected to said heat absorbing section.

2,654,354

RADIATOR TEMPERATURE CONTROL SYSTEM

Elmore J. Sanders, San Gabriel, Calif.

Application March 23, 1951, Serial No. 217,252
11 Claims. (Cl. 123—41.05)



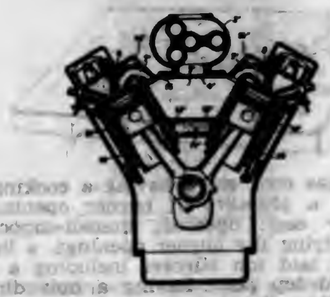
4. Temperature control apparatus comprising a liquid containing radiator, a rotating fan facing said radiator and having blades normally discharging air through the radiator, shutter means at the suction side of said fan operable between open and closed conditions while the fan is in operation, said shutter means in closed condition being disposed across said suction side of the fan directly adjacent the blades thereof to convert the fan to a centrifugal impeller discharging fluid radially outwardly, baffle means positioned in the path of said radially outward flow of fluid and deflecting a portion thereof toward the radiator, said shutter means including a pair of relatively adjustable sections, means mounting one of said sections substantially stationarily with respect to said baffle means, and thermostatic control means operable to actuate said shutter means between said conditions in accordance with changes in the temperature of the radiator liquid.

2,654,355

FOUR-STROKE INTERNAL-COMBUSTION ENGINE

Andreas Scheiterlein, Graz, Austria, assignor to Hans List, Graz, Austria

Application March 15, 1951, Serial No. 215,767
In Austria March 21, 1950
2 Claims. (Cl. 123—41.74)



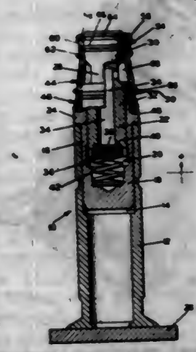
1. A four-stroke cycle internal combustion engine including at least one row of cylinders comprising an engine block including side walls and a top wall, cylinders therewithin and in spaced relation with respect to said side walls, at least one hollow water-receiving cylinder head on said block, a water jacket around the cylinders and spaced from the side walls of the block, cylinder valves in said head and valve push rods arranged in the space between one side wall of the block and the water jacket, the space on the side of the water jacket opposite the push rods being uninterrupted and extending throughout the block along at least substantially the entire length of the row of cylinders and constituting an air collecting space, at least a portion of one wall of the block being the outer limiting wall of said space, means including spaced superposed webs subjacent said air collecting space defining a water collecting chamber extending over the entire row of cylinders, said water jacket constituting at least one wall of said chamber and having apertures therein providing communication between the chamber and the jacket, the division plane between the cylinder head and the upper extremity of the cylinders delimiting the upper extremity of said air collecting space at least in the axial direction of the cylinders, said head and block having sets of coinciding apertures therein corresponding in number to the number of cylinders providing communication with the air collecting space, arcuate conduits curved through approximately 180° lying substantially entirely within the water-receiving space of the cylinder head and providing communication between the sets of apertures and each cylinder, the said valves operatively controlling air passage through said conduits, the outer limiting wall of said air collecting space having an elongated slot therein and an elongated Roots-type blower having an outlet port and including flanges adjacent said port and overlying said slot with the flanges connected to the said outer limiting wall on opposite sides of the slot.

2,654,356

HYDRAULIC TAPPET

Sidney Oldberg, Birmingham, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

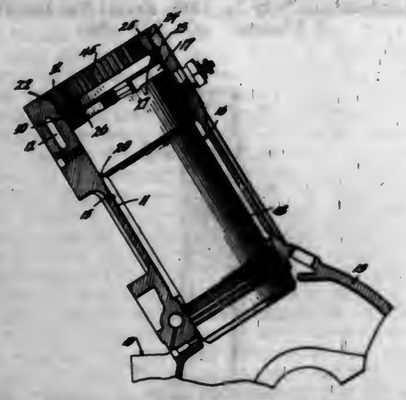
Application July 23, 1949, Serial No. 106,413
5 Claims. (Cl. 123—90)



1. In a lash take-up device for valve gear and the like, a hollow cylinder closed at one end, a plunger slidable in said cylinder and projecting outwardly of the open end thereof, a passageway through said plunger communicating at one end thereof with the chamber defined by the inner end of said plunger and the closed end of said cylinder, said plunger having an axial recess at its inner end, the bottom of said recess defining an annular valve seat around the inner end of said passageway, a one-way valve on the valve seat in the recess of said plunger, a counterbore in said recess defining an annular axially facing shoulder, a spring in said chamber, having one end seated against said shoulder, urging said plunger outwardly of said cylinder, the axial distance from said seat to said shoulder being greater than the thickness of said valve, the inside diameter of said one end of said compression

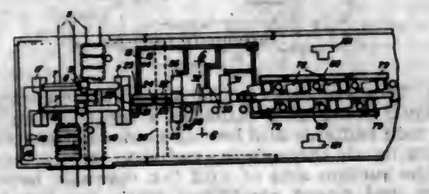
spring being less than the diameter of said valve whereby said spring retains said valve in said recess in proximity to said valve seat, a flexible tubular sleeve surrounding and clamped at one end to the outer surface of said cylinder adjacent the open end thereof and clamped at its other end to the projecting portion of said plunger, said plunger, cylinder end, and sleeve defining a reservoir therebetween, said passageway communicating at its other end with said reservoir, the means for clamping said sleeve to said cylinder and plunger comprising, annular metallic clips each having an inner and outer annular portion between which the ends of the sleeve are clamped, the said inner annular portions snugly embracing the said cylinder and plunger, respectively, each of said outer annular portions extending axially inwardly of the ends of said sleeve beyond the corresponding ends of said inner annular portions and being resiliently biased at their inner ends to press said sleeve radially inwardly, and circumferential grooves around said cylinder and plunger, respectively, radially inwardly of the said inner ends of said outer annular portions whereby said resilient outer annular portions press said flexible sleeve into said grooves to effect a liquid-tight seal between said sleeve and said cylinder and plunger.

2,654,257
INTERNAL-COMBUSTION ENGINE
Julius E. Witzky, Royal Oak, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application August 15, 1950, Serial No. 179,493
5 Claims. (Cl. 123—193)



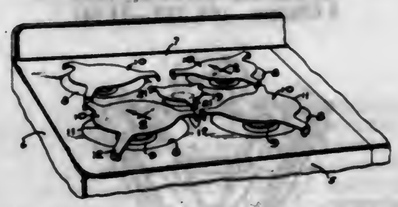
1. In an internal combustion engine, a cylinder block provided with an opening adapted to receive a removable cylinder within which a piston is adapted to move when the fuel charge is fired, a cylinder completely received within said opening with its upper end disposed well below the outer end of the mouth of said opening, said cylinder being closed at its outer end by an end wall between which wall and the piston the combustion gases are confined, a shoulder within said opening against which a portion of the cylinder abuts to limit its movement into said opening, at least the mouth of said opening being cylindrical and of slightly greater diameter than the external diameter of said cylinder, internal screw threads formed on the mouth of said opening; and an annular clamping ring, externally threaded and screwed into the mouth of said opening above the closed outer end of said cylinder, and exerting bearing pressure upon the periphery of said closed outer end of said cylinder to clamp it securely against said shoulder, and thus prestressing the closed cylinder, which comprises the combustion chamber, against the explosive pressure of the combustion gases.

2,654,258
PROCESS AND APPARATUS FOR PRODUCING SLATE SHINGLES OR THE LIKE
Eugene T. Lake, Brodheadsville, Pa.
Application April 28, 1950, Serial No. 158,748
23 Claims. (Cl. 125—23)



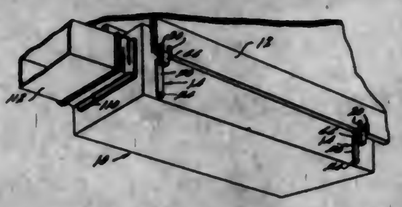
10. Apparatus for producing slate shingles or the like from quarried slabs, comprising saw means adapted to cut across the grain of quarry slabs, producing sawn strips, a mechanical splitting machine adapted to sculp the sawn strips in the direction of the grain, producing squared blocks, and a second mechanical splitting machine adapted to split the squared block on the primary planes of cleavage into a block whose thickness is an even factor multiple of the desired final thickness, in combination with a third mechanical splitting machine adapted to split the multiple block to the thickness of the final product desired.

2,654,259
GAS COOKSTOVE WITH COMBINED TOP PILOT AND SIMMER BURNER
Herbert M. Reeves, Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts
Application May 4, 1948, Serial No. 25,013
5 Claims. (Cl. 126—39)



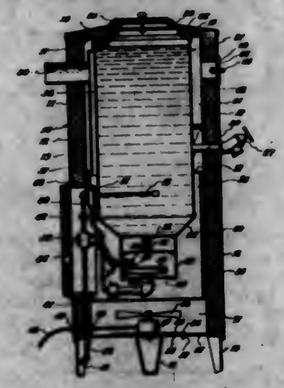
1. In a gas cook stove having a cooking top plate with a plurality of burner openings, a burner for each opening, utensil-supporting grates overlying the burner openings, a lighter system for said top burners including a pilot burner, said top plate having a hole directly overlying the pilot burner, and an auxiliary utensil support having a solid section in the body thereof at least as large as said hole, said support being removably supported on the top plate above said hole and disposed substantially in the plane of the top burner grates with said solid section located directly over said hole to afford protection for said pilot, said cooking top plate being perforated around said pilot burner hole to permit the passage of hot gases against the peripheral portion of the auxiliary grate and serving to minimize the dissipation of heat from the pilot burner to the top plate.

2,654,260
JOIST-SUSPENDED FURNACE STRUCTURE
Thomas C. Gleason, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application October 10, 1950, Serial No. 189,421
2 Claims. (Cl. 126—99)



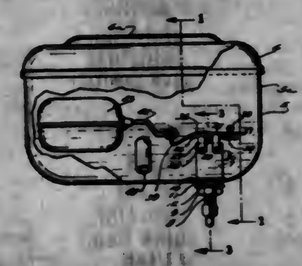
1. In combination with spaced floor joists of a building structure, a sheet metal enclosed air heating furnace of a generally elongated construction having a portion disposed between said joists and having anchor means disposed within the sheet metal enclosure adjacent an opening therein, and mounting means having a first portion secured to one of said joists and a second portion extending through the opening in said sheet metal and being secured to said anchor means, said mounting means including first yieldable means disposed between said first and second portions for yieldably supporting said furnace relative to said joists and second yieldable means lining said opening and engaging said second portion of said mounting means.

2,654,261
COMBINATION WATER AND SPACE COMBUSTION HEATER
Bernard H. Leaching, Janesville, Wis., assignor to The Schlueter Co., Janesville, Wis., a corporation of Wisconsin
Application September 6, 1949, Serial No. 114,115
5 Claims. (Cl. 126—101)



1. A combination water and space heater comprising a vertical cylindrical water tank and a concentric cylindrical combustion housing closed at its lower end, said combustion housing being of larger diameter than the water tank, extending beneath the water tank to form therewith a combustion chamber and extending upwardly partially of the height of the tank and is spaced relation to the side walls of said tank, a burner in said combustion chamber, a combustion air inlet in communication with said combustion chamber, and a flue communicating with the upper end of said combustion housing; and an exterior cylindrical housing of substantially uniform diameter throughout its height and of diameter greater than the combustion housing and concentrically enclosing the combustion housing, flue and water tank; said exterior housing having outer and inner metallic walls spaced from each other by a thermal insulating layer, the inner wall of said exterior housing being close to the wall of the combustion housing to provide a narrow substantially annular air passage between the combustion housing and the exterior housing and a wider chamber air passage between the tank and the exterior housing, said exterior housing including an inlet and outlet communicating respectively with said air passages together with control shutters operatively associated with said air passages whereby said shutters may be opened to permit the flow of heated air through the passages between the combustion housing, tank and exterior housing to the outlet thereof; or closed to provide a dead air insulating layer around the combustion housing and tank.

2,654,262
HUMIDIFIER
Arthur E. Scharf, Milwaukee, Wis.
Application April 5, 1950, Serial No. 154,120
4 Claims. (Cl. 126—113)

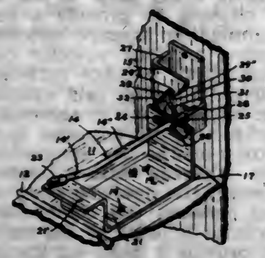


1. In a humidifier for use with an encased furnace of the hot air type, a pan adapted to be positioned within the furnace casing for evaporation of water therefrom, the pan having an aperture in the side wall thereof between the bottom of the pan and the minimum water level to be maintained in the pan, a chamber outside of the furnace casing for receiving water from a source of supply, a pipe connected with the pan and the chamber for conducting water from the chamber to the pan, one end of the pipe extending through the pan aperture and the other end of the pipe extending through the side wall of and into the chamber to adjacent the bottom thereof and below the said one end of the pipe, means for securing the pipe to the pan in watertight relation therewith, a valve in the chamber for controlling the flow of water thereinto, and adjustable means responsive to the water level in the chamber for controlling the operation of the valve.

2,654,263
FLUE DAMPER LATCH
Walter C. Simpson, Oakland, Calif.
Application April 4, 1949, Serial No. 85,457
9 Claims. (Cl. 126—285)

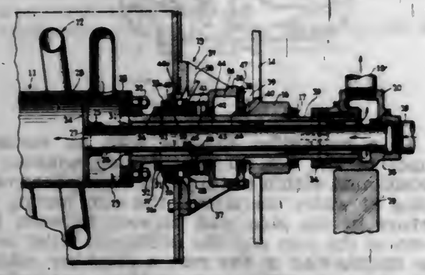
1. In combination with an upright flue provided with a horizontally hinged damper plate releasably disposable in a predetermined closure plane across the flue, a latch bolt carried by the damper plate within the flue space for swinging adjustment thereon in a fixed path about an axis transverse to the axis of hinging of the damper plate and between unlatched and latched positions for the bolt with respect to the damper plate, a catch-plate fixed within the flue and

providing a rest on which the free end of the bolt is arranged to be seated from above for supporting the damper plate in its said closure plane, and a guide means on the catch-plate provided with downwardly-facing guide faces above the catch plate rest alternately engageable by said



bolt end for respectively shifting the bolt from its unlatched and latched positions with respect to the damper plate over and from over said rest by and upon successive swingings of the damper plate beyond its operative position from its open and closed positions.

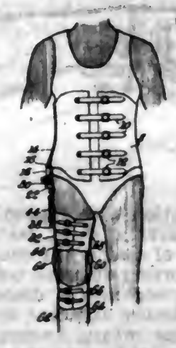
2,654,364
MINGLER
Joseph Hertrich, Hamilton, Ohio, assignor to The Western States Machine Company, Hamilton, Ohio, a corporation of Utah
Application December 19, 1946, Serial No. 717,281
8 Claims. (Cl. 127—17)



1. In an apparatus for conditioning massecuite or the like, an elongated material receiving tank with end walls, an extended hollow rotatable shaft journalled adjacent said end walls, a heat transferring-stirrer coil mounted on said shaft and connected with it for the flow of fluid therebetween, one end of said shaft passing through one of said end walls, a shaft seal mounted in a frame on said end wall through which said shaft passes, said seal including a packing ring retainer having a bore of greater diameter than said shaft within which radial displacement of said shaft can take place, a packing ring follower, a packing ring between said retainer and follower, said retainer and follower having a clearance and freedom of angular and axial movement relative to said end wall, an abutment carried on said shaft for said retainer, and a spring urging said follower, packing ring, and retainer toward said abutment whereby a seal is maintained.

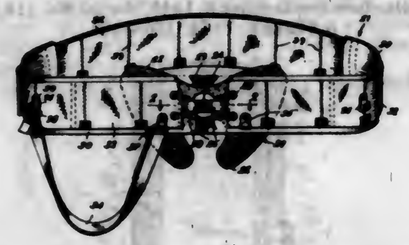
2,654,365
COMBINED BODY AND LEG BRACE
Archie L. Whitaker, Altadena, Calif.
Application November 14, 1949, Serial No. 127,214
10 Claims. (Cl. 128—80)
(Granted under Title 35, U. S. Code (1952), sec. 266)

2. In a combined body and leg brace having a rigid corset member defining a body and spinal support, and also having a carrier bar secured to a side of the corset member, the improvements which comprise a leg frame carried by the carrier bar, a trochanteric joint connecting the carrier bar to the leg frame, the said trochanteric joint comprising a ball joint member received in the carrier bar and a portion of the



leg frame defining holding means for the ball, the said ball permitting universal, unrestricted movement between the carrier bar and the leg frame, and removable means passing through the said ball and the holding means therefor for disconnectably attaching the leg frame to the carrier bar.

2,654,366
TRUSS HEAD AND MOUNTING THEREFOR
Fred B. Miller, Hagerstown, Md.
Application December 27, 1950, Serial No. 202,855
7 Claims. (Cl. 128—107)

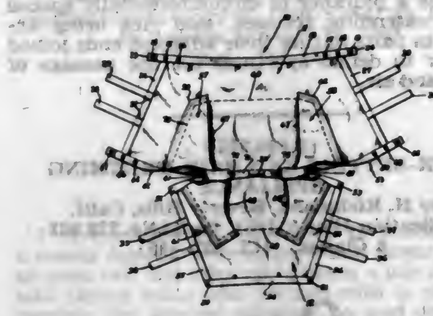


4. In a truss assembly, a belt having hooks at its ends for connection to a head, clips mounted with said hooks, said clips swingable relative to said hooks and designed for connection to leg straps, and a pair of leg straps each connected at one end to one of said clips.

2,654,367
INVALID GARMENT
Myrtle M. Turnham, Minneapolis, Minn.
Application January 29, 1951, Serial No. 208,367
4 Claims. (Cl. 128—287)

4. An invalid's garment having front and rear portions each having a waist edge, said waist edges being adjustably cooperable for the forming of a waiste-encircling member, said front and rear portions each having a crotch edge and being joined together thereby, said front and rear portions also having downwardly extending side edges and means for connecting the side edges of said rear portion to the corresponding edges of said front portion to form tubular leg portions,

at least a part of each of said front and rear garment portions being resistant to body excretions, vertically disposed retaining elements secured to the inner surfaces of said front and rear garment portions along their outer and top edges and extending across the juncture of said crotch edges, said retaining elements being resistant to body excretions and cooperating to form opposed inwardly facing pocket members extending upwardly from the lower inner portions of said tubular leg portions to the uppermost ends of said retaining elements, said retaining members being adapted to receive the opposed marginal



side portions of a disposable sanitary liner or pad and cooperating to removably support said pad in position in the crotch of the garment with its side edge portions extending downwardly into the bottoms of said pocket members at the lower inner sides of the tubular leg portions of the garment, whereby said pad may completely cover the excretory organs of a patient's body and prevent leakage from the garment at the inner sides of the legs, when the garment is worn by an ambulatory patient and a laterally extending portion disposed above and adjacent to the crotch seam and connected to the edges of said pocket members.

2,654,368
CALF PULLER
Worth L. Matteson, Jr., Foreman, Ark.
Application September 28, 1951, Serial No. 248,820
1 Claim. (Cl. 128—352)



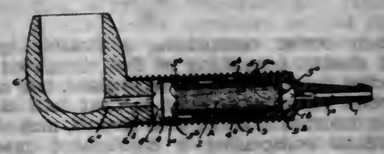
A calf puller comprising an elongated support, a U-shaped breeching bar disposed transversely of said support and secured to one end thereof and adapted to transversely embrace and be secured to the rump of a cow, an upstanding lug secured to said support adjacent the other end thereof, a yoke member disposed longitudinally above said support between said lug and said one end of said support and having one end pivotally connected to said lug, a reel mounted in said yoke member for rotary movement about an axis disposed transversely of said support, a cable wound upon said reel and having one end secured thereto an obstetrical chain carried by the other end of said cable, and a hand actuated paying-out and reeling-in means operatively connected to said reel for effecting the rotary movement thereof.

2,654,369
DEVICE FOR PILING UP PREFORMED BINDER AND/OR WRAPPER LEAVES FOR CIGARS, CIGARILLOS, OR BUNCHES THEREOF
Everardus W. C. van Buul, Eindhoven, Netherlands, assignor to N. V. Vereenigde Tabaksindustrieën Mignot & De Block, Eindhoven, Netherlands
Application January 31, 1950, Serial No. 141,371
In the Netherlands March 3, 1949
4 Claims. (Cl. 131—105)



1. A tobacco leaf holder and transfer device comprising a frame, a receptacle rotatably mounted in the frame, said receptacle being cruciform in shape in horizontal cross-section and having a bottom provided with a bearing opening, a plate positioned above said bottom, a rod secured to the plate and extending through the opening, a lever pivoted on the frame, a cam positioned on an axis parallel to the axis of the lever pivot and capable of rotation, the exterior surface of the cam at all times being in contact with the lever, resilient means retaining the lever in engagement with the cam, and means at the end of the rod connected to the lever, whereby actuation of the lever will cause reciprocation of the rod and an oscillatable suction device for removing top leaves one at a time from the receptacle, the oscillatable suction device and the reciprocatable rod being so synchronized that the instant suction is applied to the top leaf, the supporting plate will be moved away from the bottom of the receptacle.

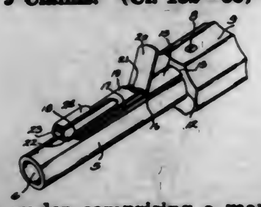
2,654,370
SMOKING PIPE
Robert Lequeux Smith, Portsmouth, Va., assignor of one-sixth to A. B. Bowman, San Diego, Calif.
Application January 5, 1949, Serial No. 69,297
1 Claim. (Cl. 131—213)



A pipe having a hollow stem, and a bit provided with an enlargement and having an end in the stem, a smoke diverter comprising a tube extending within said hollow stem and having a closed end therein and an open end in frictional engagement over the end portion of the bit in the stem, and having apertures adjacent the open end for passage of smoke therethrough, an open ended cylindrical member having a diameter less than that of the diverter and adapted to be mounted within said enlargement in said end of said bit and extend into said diverter, and means adapted to support a filter within the cylindrical member comprising a perforated planar bottom having clip legs located at the outer periphery

and perpendicular to the plane thereof, said legs terminating in relatively short outwardly directed portions adapted to abut the edge of the free end of the cylindrical member to position said disk so that it lies in the plane of the other end of the cylindrical member.

2,654,371
HAIR CURLER
Gladys M. McIlrath, Racine, Wis.
Application August 16, 1949, Serial No. 110,495
9 Claims. (Cl. 132—33)



1. A hair curler comprising a mandrel and a part provided with a rotatable mounting on said mandrel and integrally including a spring arm portion and a guard portion, each of said portions being reversely bent upon itself, the reverse bend of the guard portion being offset longitudinally of the mandrel beyond the reverse bend of the spring arm portion, and said guard portion including a terminal part extending back over the spring arm portion in partial lapping relation thereto.

2,654,372
HAIR CURLER
Berta Stoyanoff, Sunnyside, Utah
Application March 22, 1952, Serial No. 277,949
1 Claim. (Cl. 132—38)



A hair curler comprising a flexible spirally wound sheath consisting of flat elongated sides connected by curved transverse sides, one of said transverse sides being split so that hair strands may be inserted into the said sheath, and clamping means comprising a corrugated jaw and means attaching the said corrugated jaw to one end of the said sheath, and a second jaw relatively moveable towards the said first mentioned jaw, so that the said jaws may assume a closed and open position, respectively.

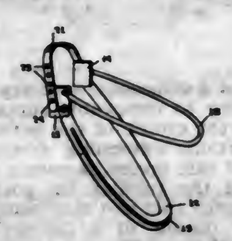
2,654,373
HAIR CURLING DEVICE
Ruth Kahan Weaver and Paul T. Hahn, Chicago, Ill., assignors to Gaylord Products, Incorporated, Chicago, Ill., a corporation of Delaware
Application December 27, 1951, Serial No. 263,528
8 Claims. (Cl. 132—40)

1. In a hair curler, a spool of one-piece skeletal construction including a plurality of generally U-shape ribs having medial portions radially disposed and circumferentially spaced about the outer periphery of a narrow ring-shape hub to define an annular groove to receive a wound tress of hair, the medial portion of each rib being



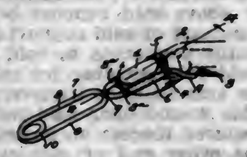
joined to said hub and spaced from adjacent ribs to define a plurality of circumferentially spaced axially extending recesses, said ribs being arranged in pairs having their adjacent ends joined together to define apertures for the passage of liquids and air.

2,654,374
HAIR-SETTING AND HAIR-TRIMMING APPLIANCE
Joy H. Richmond, Beverly Hills, Calif.
Application June 5, 1951, Serial No. 229,923
2 Claims. (Cl. 132—45)



1. A hair-setting appliance comprising a relatively thick, generally U-shaped bar member, said bar member being rounded in cross-section and being adapted to be engaged back of the user's head, a strap member secured to one end of said bar member and arranged to lockingly engage the other end of said bar member, said strap member being adapted to be engaged over the top of the user's head, and an auxiliary, relatively thin U-shaped member pivotally connected at its ends to the ends of the thick U-shaped member and adapted to engage over the user's hair adjacent the back of the user's head opposite the thick U-shaped member said U-shaped member being formed with an outwardly facing groove extending the major portion of the length of the U-shaped member for guiding a scissors along the user's hair.

2,654,375
NAIL POLISH TEMPLATE
Ruth L. Frank and Robert J. Frank, Beverly Hills, Calif.
Application November 28, 1951, Serial No. 258,652
9 Claims. (Cl. 132—88.5)



1. A finger nail template and carrying device, said template being formed from a flat piece of

stretchable material having a nail exposing opening therethrough adapted to register with a finger nail, said carrying device comprising spaced arms urged towards each other and adapted to grip opposite sides of a finger below a finger nail and deform the flat piece of stretchable material to conform to the outline and curvature of a finger nail, opposite sides of said template being attached to the spaced arms.

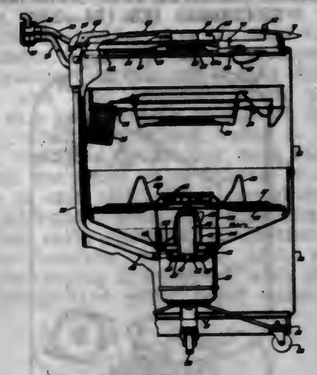
2,654,376
COIN HOLDER
Åke Albin Hultberg, Aspudden, Sweden
Application January 25, 1950, Serial No. 140,369
In Sweden January 28, 1949
3 Claims. (Cl. 133—6)



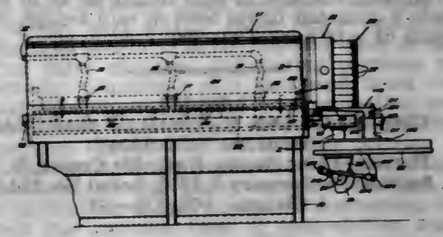
1. A coin holder comprising, in combination, a casing formed with at least one recess having an open end and adapted to house a pile of coins, said casing being also formed with a coin dispensing slot located adjacent to said open end of said recess and communicating with the same; spring means located in said recess for urging coins toward said open end of the same; a top part secured to said casing and having a rim including at least one recessed rim portion projecting over a portion of said recess and adapted to retain coins in the same against the action of said spring means, said recessed rim portion being provided with a projection projecting into said recess and adapted to engage a raised coin rim on the outermost coin located at said open end of said recess; resilient means located in said recess adjacent to said open end of the same and adapted to urge said outermost coin toward said dispensing slot and against said projection of said recessed rim portion, said projection preventing dispensing of said outermost coin through said dispensing slot, an outermost coin being dispensed by manually pressing the same into said recess against the action of said spring means and of said resilient means so as to disengage said coin rim from said projection on said recessed rim portion for moving said outermost coin through said dispensing slot.

2,654,377
DISHWASHING MACHINE
Henry C. Sway, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application February 9, 1949, Serial No. 75,466
7 Claims. (Cl. 134—93)

1. In a dish washing machine, a tub having a depending bottom wall portion at its lower end which defines an impeller chamber, an impeller in said impeller chamber for circulating water from such chamber throughout the tub and from which it flows back to such chamber, a closure for the upper end of the tub having top and bottom walls which define a water chamber, a wall projecting upwardly from said bottom wall which defines an overflow passage through said bottom wall and serves to define a liquid level in said water chamber, an opening in said bottom wall through which liquid in said water chamber may flow directly to said impeller chamber whereby a volume of wash water measured in said water chamber may be supplied to said impeller chamber, a discharge conduit connected to the bottom of said impeller chamber, an inlet valve for closing said opening, means connected with said valve for opening and closing it, and a conduit connected to said water chamber through which water may be supplied to it.

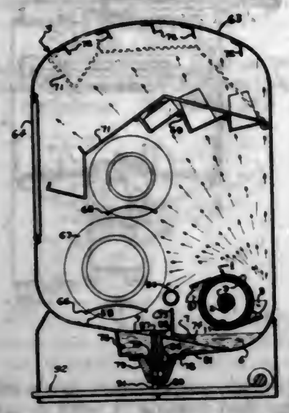


2,654,378
BALL BEARING WASHING MACHINE
George D. Beaudry and John T. Longden, Chicago, Ill., and Theodore R. Brink, Michigan City, Ind., assignors to International Harvester Company, a corporation of New Jersey
Application December 29, 1948, Serial No. 67,248
7 Claims. (Cl. 134—112)



1. A ball bearing washing machine comprising a supporting structure, longitudinally extending, spaced, parallel track members carried on said supporting structure, said track members adapted to slidably receive annular bearings, nozzle means disposed above each of said track members and carried on said supporting structure, said nozzle means having openings arranged and constructed to direct streams of wash fluid on the bearings on said track members, valve means on each of said nozzle means for regulating the flow of wash liquid therefrom, means on said supporting structure associated with the track members, nozzle means, and valve means for effecting lateral shifting of the track members and nozzle means toward or away from each other and arranged and constructed to simultaneously actuate said valve means in such a manner that the nozzle means is open a relatively small amount when the track members and nozzle means have their spacing adjusted for small bearings and that the nozzle means is open a substantial amount when the track members and nozzle means have their spacing adjusted for large bearings.

2,654,379
MACHINE FOR WASHING DISHES AND THE LIKE
Joseph M. Drees, Saratoga, Calif.
Application March 26, 1949, Serial No. 83,596
15 Claims. (Cl. 134—185)



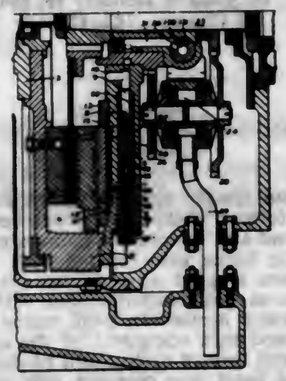
14. In a washing machine of the character described, a casing, racks in the casing for holding articles to be washed, a rotating sprayer in said casing comprising a rotating shaft supported on a generally horizontal axis in said casing, a spraying frame on said shaft, generally radial spraying bucket blades on said frame, and a drive connection device between said frame and said shaft for rotating said frame and imparting horizontal reciprocation to said frame along said rotating shaft, a trough formed in said casing along said frame and shaft, a liquid collecting element in said casing and a device determining liquid flow from said element to said trough so as to maintain a constant liquid level in said trough in the path of said bucket blades.

2,654,380
UMBRELLA AND METHOD OF MANUFACTURING THE SAME
Herman Eichenbaum, Rockville Centre, N. Y.
Application January 3, 1952, Serial No. 264,763
4 Claims. (Cl. 135—33)



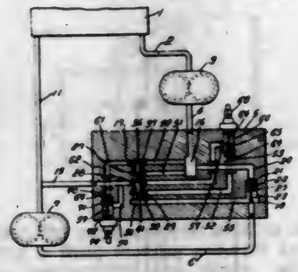
1. In an umbrella of the type including a covered collapsible framework of ribs, a covering comprising a plurality of panels secured together in edge to edge relation, each pair of adjacent panel edges being in aligned juxtaposed relation, an elongated binder folded over and extending along each pair of juxtaposed edges, and stitching securing the binder and edges together to form a sleeve extending along at least the outer portion of the joined edges and closing the outer end of the sleeve, each sleeve having an opening therein intermediate the inner and outer ends of the joined edges to provide for insertion of a rib into the sleeve.

2,654,381
VARIABLE-RATIO POWER TRANSMITTING APPARATUS
Joseph Arthur Thompson and Howard Frederick Hobbs, Leamington Spa, England, assignors to Hobbs Transmission Limited, Leamington Spa, England, a British company
Application June 2, 1948, Serial No. 30,556
In Great Britain June 20, 1947
2 Claims. (Cl. 137—56)



1. In a hydraulically actuated friction clutch having a rotary housing provided with a pressure space, the provision of a valve bore in said housing, a first inlet duct and an outlet duct in said housing for supplying fluid under pressure to and exhausting said fluid from said bore respectively, said outlet duct being located adjacent to the inner end of said valve bore, a movable valve element in said bore, said valve bore being disposed with one end further from the axis of said housing than the other end and so as to permit movement of said valve element under centrifugal action, the outer end of said valve bore being permanently closed against escape of fluid therefrom apart from escape through a working clearance of said element in said valve bore, said valve element having openings disposed between the ends of said element whereby said inlet and outlet ducts are brought into communication when said valve element is in an intermediate position in said valve bore, for exhausting said fluid under pressure, said openings being closed by the valve bore at opposite sides of said intermediate position, first and second resilient means both acting on said valve element in opposition to movement of said valve element caused by centrifugal force and said first resilient means serving to keep said valve element in exhaust closing positions during conditions of said housing from and including stationary to a low predetermined speed of rotation thereof, said first resilient means permitting and resisting movement of said valve element radially outwards to exhaust opening positions during speed conditions of said housing between stationary to said low predetermined speed, and said second resilient means being of greater force exerting capacity than the said first resilient means and permitting and resisting movement of said valve element radially outwards to a further extent to exhaust closing positions at speeds from said low predetermined speed to higher predetermined speeds, means to hold the said second resilient means inoperative during movement of the valve element from the innermost position of the said openings to the intermediate position of said openings and permitting said second resilient means to be operative during movement of the valve element from the intermediate position of said openings outwards, a second inlet duct in said housing leading from the said pressure space to the outer end of the said valve bore, said second inlet duct being controlled by said valve element, said valve element including a part thereof which closes said second inlet duct just prior to closing by said valve element of the first inlet duct on the outward movement of said valve element so as to trap oil and give a final slow closing cushioning effect.

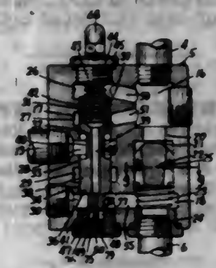
2,654,382
CONTROL VALVE MECHANISM
Charles F. Ball and Richard T. Hair, Franklin, Pa., assignors to Joy Manufacturing Company, a corporation of Pennsylvania
Continuation of abandoned application Serial No. 80,374, March 9, 1949, which is a division of application Serial No. 731,126, February 26, 1947. This application March 10, 1952, Serial No. 275,694
15 Claims. (Cl. 137—102)



1. In combination, in a valve mechanism, a casing providing chambers having in them respectively a shifter valve, two relief valves, and a check valve, an external inlet connection having communication with one end of said shifter valve containing chamber and also with said chamber at a point between the ends of the latter and also with said check valve and with one of said relief valves, an external vent connection communicating with the chambers containing each of said relief valves and with said shifter valve chamber at a different point between the ends of the latter, a connection between the other relief valve and said shifter valve chamber at still a different point therein, and a third external connection communicating with the other end of said shifter valve chamber and with said check valve chamber.

2,654,383
CONTROL VALVE MECHANISM
Richard J. Hopkins, Franklin, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application February 25, 1953, Serial No. 338,790, which is a continuation of abandoned application Serial No. 24,558, May 1, 1948. Divided and this application February 18, 1950, Serial No. 144,985
13 Claims. (Cl. 137—102)

1. In combination, in a valve mechanism, a casing having in it four valve-containing chambers, a shifter valve in one of said chambers, a relief valve, having one setting, in another of said chambers, another relief valve, having another setting, in still another of said chambers, and a check valve in the fourth one of said chambers, each of said relief valves and said check valve controlling flow through its respective chamber, an external connection having communication with one end of said shifter valve chamber and also communication with that chamber at a point spaced from both of its ends and also, when said check valve is unseated, with the chamber containing said check valve and, when the relief valve therein is unseated, with one of said relief valve containing chambers; an internal connection communicating with said shifter valve chamber, at another point in the latter between its ends, and, when the relief valve therein is unseated, with the chamber containing the other relief valve, another

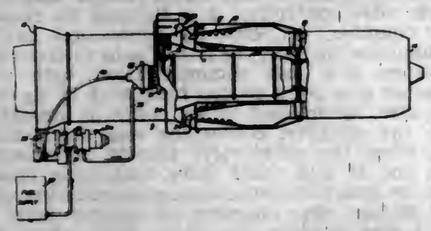


external connection communicating with the other end of said shifter valve chamber and with said check valve containing chamber, and a third external connection having communication with the chambers containing each of said relief valves and with said shifter valve chamber at a still different point between the ends of the latter, said shifter valve being responsive to the fluid pressures in the opposite ends of said shifter valve chamber and having portions respectively connecting said first and third external connections together and connecting said internal and said second mentioned external connection together in one extreme position of said shifter valve and portions interrupting such connections in the other extreme position of said shifter valve, and means for connecting together the opposite ends of said shifter valve chamber only when the shifter valve is at least a predetermined distance from said other end of its chamber.

2,654,384
FLOW DIVIDER DEVICE
Charles H. Steckdale, Springfield, and Douglas Johnson, Ridley Park, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 21, 1950, Serial No. 150,966
5 Claims. (Cl. 137—118)

1. Fuel flow divider means for a gas turbine engine having annular combustion apparatus and a plurality of circumferentially spaced fuel supply devices therefor, comprising casing structure forming a chamber having an inlet communicating with a source of fuel under pressure, said casing structure including a collector plate forming a wall of said chamber and having a plurality of circumferentially spaced discharge ports each adapted to communicate with one of said fuel supply devices, said collector plate having knife edges formed between and separating said ports on the side adjacent said chamber, a rotary orifice

element mounted in said chamber adjacent the side of the collector plate having said knife edges between said discharge ports and having a plurality of similarly spaced restricted orifices successively registerable therewith, and means for



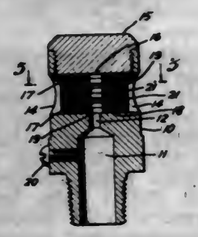
driving said orifice element from the engine for effecting flow in separate courses from said chamber through said ports to said fuel supply devices by way of all of said restricted orifices in rapid succession.

2,654,385

AUTOMATIC HYGROSCOPIC TYPE AIR VENT

William M. Grosvenor, Jr., New York, N. Y., assignor to Taco Heaters, Incorporated, Providence, R. I., a corporation of New York

Application March 10, 1949, Serial No. 80,603
6 Claims. (Cl. 137—197)



3. In an automatic steam vent valve, the combination comprising a valve body having a cavity with inlet and outlet passages therein, a plurality of fibrous wafers located in said cavity between said inlet and outlet passages, said fibrous wafers passing air to said outlet and being impervious to the passage of steam and heat retaining metal washers in contact with and between said fibrous wafers for assisting in drying out said fibrous wafers to open up the passage between said inlet and outlet passages after said fibrous wafers have closed up said passage due to the presence of steam.

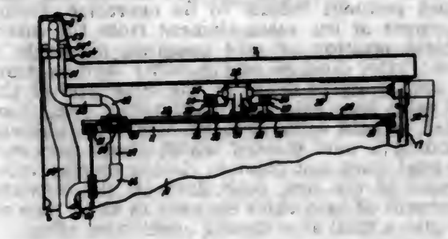
2,654,386

UNDERCOUNTER WASHING MACHINE

Gaylord H. Wetring, Fairfield, Conn., assignor to General Electric Company, a corporation of New York

Application May 9, 1952, Serial No. 286,872
5 Claims. (Cl. 137—216)

5. In a washing machine of the type having a stationary cabinet with a substantially horizontal counter surface and a tub with an open top slidably mounted under said counter surface for movement between a position under said counter and a position withdrawn from said counter, that improvement comprising a cover for said open top carried by said cabinet under said counter surface, means for moving said cover downwardly to close said tub and upwardly to open it, and a liquid transfer system for said tub including an external pipe fixed in said cabinet and having a vertical section opening at a level above said counter surface, a conduit carried by said cover to move with it, and conduit means connecting said conduit with said pipe opening



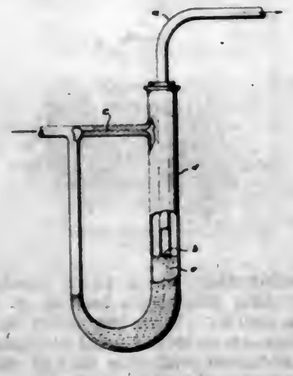
including a section extending upwardly from said conduit and having an opening above said counter surface spaced from and in alignment with said opening of said pipe.

2,654,387

APPARATUS FOR CONTROLLING THE FLOW OF GASES

William B. Innes, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application March 19, 1952, Serial No. 277,420
3 Claims. (Cl. 137—251)



1. An apparatus adapted to control the rate of flow of a gas, which comprises a closed U-tube containing sufficient liquid to partially fill both vertical arms; a capillary tube connecting the top portions of said vertical arms; a semi-permeable membrane the pores of which are permeable to gas but impermeable to said liquid, one surface of said semi-permeable membrane being connected to the apparatus requiring constant gas flow and the other surface being positioned close to said liquid in one of the vertical arms of said U-tube, the other vertical arm being connected by suitable means to the source of gas which it is desired to control.

2,654,388

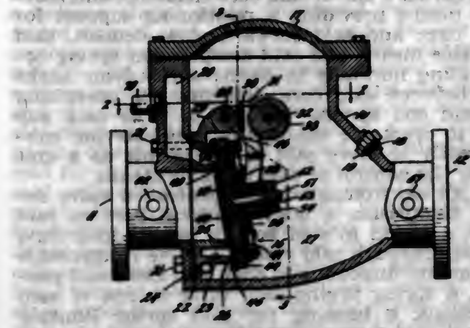
BACKFLOW PREVENTER

Thomas A. Glass, Los Angeles, Calif.; Ann Thesing Glass, executrix of said Thomas A. Glass, deceased

Application November 7, 1944, Serial No. 562,304
3 Claims. (Cl. 137—312)

1. A guided closure plate for a back flow preventer, consisting of a disk, a ring coaxial with the disk and having a shouldered engagement therewith, a facing formed of a single piece engaging both the disk and the ring, a flexible sheet

carrying the ring and engaging the disk on the side opposite the facing, clamping means for se-



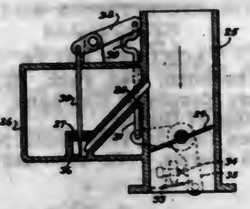
curing together the facing, disk, ring, and sheet, and means for guiding the closure plate.

2,654,389

METERING VALVE ADJUSTMENT

Harold A. Carlson, University City, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware

Application February 12, 1947, Serial No. 727,964
1 Claim. (Cl. 137—605)



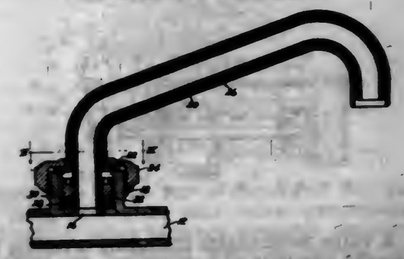
A system for proportional mixing of two fluids comprising a fluid mixing conduit and a butterfly valve controlling the same, said butterfly valve being movable to a position fully closing said mixture conduit, manually adjustable means for limiting the movement of said butterfly valve in the direction of its closing movement, an actuator for said butterfly valve, a fluid reservoir adjacent said conduit, a supply passage connecting said reservoir and said conduit, a metering orifice in the reservoir end of the supply passage permitting the flow of fuel from the reservoir to said passage, an ormally unseating metering pin with a tapered metering portion at one end reciprocably received in said orifice, said metering pin adjacent said tapered metering portion being of a diameter less than the diameter of said orifice to permit its movement freely therethrough beyond said tapered metering portion, said supply passage including a wall portion facing said orifice and in the path of movement of said metering pin and constituting a datum point, said wall portion being so spaced with respect to said orifice as to provide a predetermined limit of movement for said metering pin when the latter passes through said orifice beyond its tapered metering portion, an operable adjustable connection between said butterfly valve and said metering pin permitting movement of said metering pin into engagement with said wall portion and full closing of said throttle, and adjustable means restractable into and out of engagement with said throttle to selectively provide a stop to limit closing movement of the throttle and metering rod to an operable position or to a fully closed inoperative position to permit adjustment from a datum point.

2,654,390

SWINGING SPOUT STRUCTURE

Farley J. Archer and Timothy E. Archer, Linden, Mo.

Application January 22, 1951, Serial No. 207,212
4 Claims. (Cl. 137—606)



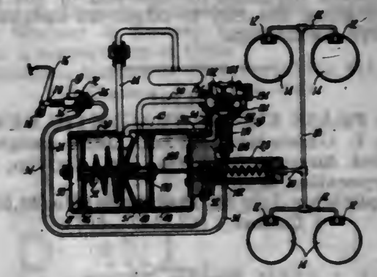
1. A swing spout mixing valve comprising a mixing chamber having valved inlets and an outlet including a nipple attached to said mixing chamber and extending outwardly therefrom and a swingable spout rotatably carried by said nipple, a flexible tubular liner positioned in said swingable spout and secured at its inner end portion to said mixing chamber and extending through said nipple to a point adjacent the mouth of said swingable spout, whereby water discharged from said mixing chamber will pass through said flexible swing spout liner.

2,654,391

SERVOMOTOR CONTROL VALVE

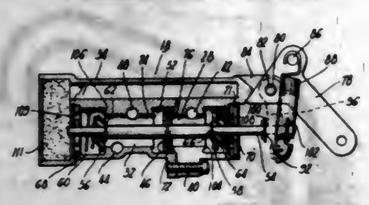
Earl R. Price, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Original application March 22, 1943, Serial No. 479,974, now Patent No. 2,446,824, dated August 10, 1948. Divided and this application May 29, 1947, Serial No. 751,283
8 Claims. (Cl. 137—620)



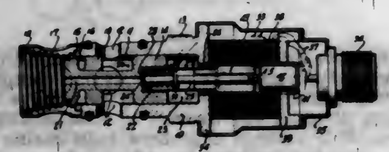
1. A valve for controlling the operation of a differential air pressure power device comprising a casing, a diaphragm having a first valve opening and dividing the interior of said casing into two variable volume chambers, said casing having a second valve opening which communicates with one of said chambers, a first resilient member arranged to urge said diaphragm away from said second opening, a first valve element for controlling said first opening, a second valve element for controlling said second opening, said valve elements being coupled together by means of a flexible connection which holds said elements against movement toward or away from each other, and a second resilient member arranged to act on said second valve element to close said second opening, said diaphragm being movable to close said first opening by seating it against said first valve element.

2,654,392
VALVE MECHANISM
George W. Allen, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application December 30, 1947, Serial No. 794,738
2 Claims. (Cl. 137—622)



1. A valve mechanism including a casing bored to provide portions of a plurality of control compartments, a reciprocable valve operating rod extending through the casing, a disk shaped valve member fixedly mounted on said rod, two disk shaped valve members slidably mounted on said rod and cooperating with parts of the bored portions of the casing and with the aforementioned disk shaped valve member to provide the control compartments, two stop members mounted in the ends of the casing, said members being provided with openings to permit the flow of air therethru and into the control compartments, spring means contacting one of said stop members and serving to bias one of said latter valve members to a certain position, other spring means contacting the other of said stop members and serving to bias the other of said latter valve members to a certain position, a stop member fixedly mounted on the rod and operative, when the rod is moved in one direction, to move one of the slidably mounted valve members, another stop member fixedly mounted on the rod and operative, when the rod is moved in the opposite direction, to move the other of the slidably mounted valve members, together with means mounted on the end of the casing for actuating the rod to effect an operation of the valve mechanism.

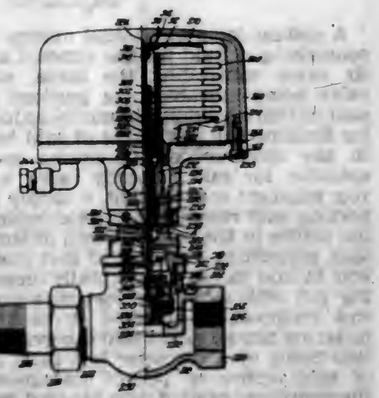
2,654,393
TWO PHASE ELECTROMAGNETIC DEVICE
Edwin I. Ghormley, Dayton, Ohio, assignor to United Aircraft Products, Inc., Dayton, Ohio, a corporation of Ohio
Application July 24, 1948, Serial No. 40,559
3 Claims. (Cl. 137—657)



1. In an electromagnetic device, a housing, a cylindrical energizable coil in said housing, a two part metallic core reciprocable within said coil, said coil and said core being so arranged as to provide a relatively long travel of said core within said coil, said core being made up of axially aligned forward and rearward magnetic core elements, a forwardly extending tubular cage rigidly connected to the forward one of said core elements, a push rod having its one end within said cage and extending through said forward core element into contact with the rearward one of said core elements at its other end, a compression spring seated within the forward end of said cage and urging said push rod toward contact with the rearward one of said core elements, and movable means providing a positioning support for said cage and said forward core element, said movable means and said compression spring cooperating normally to define a relatively slight gap between said core elements, the energizing of said coil serving initially to close said gap and to overcome said spring, and serving subsequently to move said core elements as a unit under the control of said movable means.

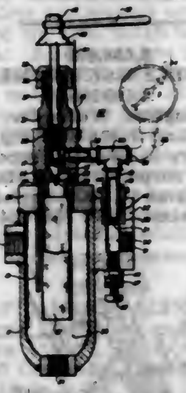
3. An electromagnetically controlled valve device, comprising a body, a piston bore in said body, a piston in said bore, a longitudinal fluid passage through said piston, a valve reciprocable in opposite directions to open and close said passage, a spring urging said valve in one of said directions, a housing for said spring limiting against said piston, a rod-like extension on said valve projecting axially through said spring housing, an energizable solenoid coil surrounding said extension, a two-part core reciprocable within said coil and comprising forward and rearward core elements axially aligned and normally spaced apart, said forward element being rigidly connected to said spring housing, and an opening in the forward core element through which said rod-like valve extension passes into contact with the rearward core element.

2,654,394
PACKLESS VALVE
David H. Thorburn, Oak Park, Ill., assignor to The Powers Regulator Company, Chicago, Ill., a corporation of Illinois
Application June 29, 1950, Serial No. 170,969
3 Claims. (Cl. 137—688)



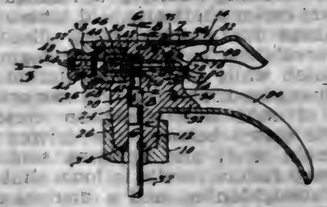
1. In a valve assembly, the combination of a casing having an inlet opening, an outlet opening and a valve seat therebetween, a valve member disposed in said casing for movement toward and away from the valve seat, a bonnet secured to said casing and providing a transverse wall portion, a stem for said valve member slidably extending through the transverse wall portion of the bonnet, said bonnet having an extension projecting above said wall portion, a motor housing base secured to said extension, a bellows assembly fixed to said motor housing base, a motor housing top secured to said base for enclosing said bellows assembly, means for introducing actuating fluid to said top externally of said bellows assembly, a cylindrical bellows base secured to said extension and extending within the bellows assembly, a collapsible bellows secured at one end to said cylindrical bellows base and extending into said bellows assembly, the other end of said bellows being closed, a bellows thrust plate interposed between the closed end of said bellows and said bellows assembly, said stem extending into said collapsible bellows and having a member provided with a bellows engaging surface for engaging the closed end of said collapsible bellows, a spring seat on said stem adjustable axially thereof, a coil spring having one end thereof in contact with the spring seat for applying tension to the stem for urging said collapsible bellows toward said bellows assembly thereby positioning said thrust plate, a transverse sealing wall provided by the cylindrical bellows base at its lower end opposite the collapsible bellows, said transverse sealing wall being located above the bonnet wall portion, said stem extending through the transverse sealing wall and which provides a seat for the lower end of the first mentioned spring, an O ring seal surrounding said stem and being located below the transverse sealing wall in contact with the underside thereof, a spring seat for retaining the said O ring seal, and a second coil spring between said bonnet wall portion and last named spring seat for urging said O ring into contact with the transverse sealing wall.

2,654,395
VALVE FOR CONTINUOUS BOILER BLOWDOWN
James W. Kaye, Montclair, N. J., assignor to Kaye & MacDonald, Inc., West Orange, N. J., a corporation of New Jersey
Application February 20, 1948, Serial No. 9,723
3 Claims. (Cl. 137—710)



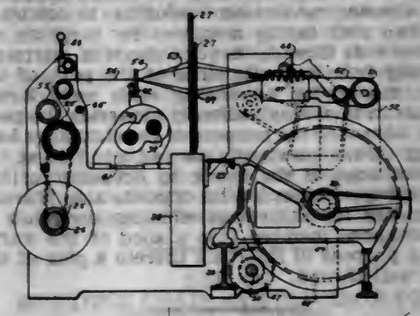
2. A valve comprising a casing having inlet and outlet openings, a valve seat supported by said casing above said outlet opening, a valve block positioned adjacent said valve seat and including, in an opening therein, a movable valve disc to vary the orifice opening in said seat, means forming an outlet chamber attached to said casing, a removable member having an orifice of fixed size supported within said outlet chamber, conduit means forming a flash chamber connected to said opening in the valve block and having an outlet end terminating adjacent said orifice of fixed size, a packing box surrounding a portion of said conduit means which is within said outlet block, a packing gland for holding the packing in said box in position, and easily removable means for connecting said valve block to the top of said casing and thereby holding the valve seat in position.

2,654,396
VALVE
Charles K. Huthsing, Los Angeles, Calif.
Application July 28, 1950, Serial No. 176,275
1 Claim. (Cl. 137—750)



A discharge valve for a container for gases under high pressures, said valve comprising a valve body, a valve element movable between a seated and an unseated position, means yieldably urging said element toward its seated position, an actuator operable to unseat said valve element, a cam element pivotally mounted on said valve body and operatively engaging said actuator, a lever pivotally mounted on said valve body in spaced relation to the pivotal connection of said cam element to said body and having a continuously shifting engagement with said cam element during pivotal movement of said lever in a direction to unseat said valve and providing a rapidly decreasing leverage ratio between said lever and said actuator, the distance from the pivotal mounting of said lever to the point of engagement of said lever with said cam element being substantially greater than the distance from the pivotal mounting of said cam element to said point of engagement, and both of said distances being reduced by said shifting engagement during movement of said lever in said direction.

2,654,397
SHED CLOSING AND PICK-BACK MECHANISM
Nicholas P. Darash, Cleveland, Ohio, assignor to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio
Application August 20, 1949, Serial No. 111,416
18 Claims. (Cl. 139—56)



1. In weaving machinery, a main shaft, a driving motor, a clutch between said motor and said shaft, a brake on said shaft, a picker shaft, a take-up shaft, a one-revolution clutch between said picker shaft and said take-up shaft, a shedder driven by said take-up shaft, said shedder having a closing and opening mechanism with a control shaft for operating said mechanism to effect warp straightening, a half-revolution engageable clutch between said driving motor and said shedder-control shaft, warp-drop wires for

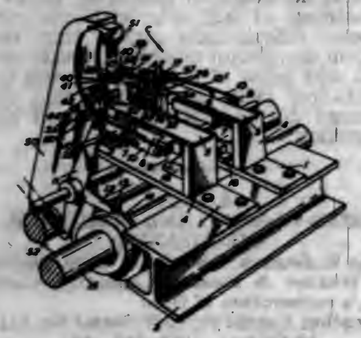
causing engagement of said half-revolution clutch upon failure of a warp thread, a reverse drive mechanism so connected as to drive said take-up shaft in a direction, the reverse of that of the main shaft, said reverse drive mechanism including a normally disengaged, toothed clutch between said motor shaft and said take-up shaft and a linkage for simultaneously disengaging said one revolution clutch and engaging said toothed clutch while said one revolution clutch remains disengaged, stop motion responsive to actuation of said half-revolution clutch for opening the clutch between the driving motor and the main shaft and applying said brake, whereby warp failure results in loom shut-down, and warp straightening, and a manual control for actuating said reverse drive clutch linkage to effect pick back for single pick, said manual control having a pair of switch contacts therein paralleling said drop wires for re-energizing said half-revolution clutch and reopening the shed.

2,654,398

WEAVING LOOM WITH STATIONARY WEFT SUPPLY

George Haselton, Leicester, England, assignor to Clutsom & Kemp Limited, Coalville, England, a British company

Application November 15, 1950, Serial No. 195,726
In Great Britain November 16, 1949
16 Claims. (Cl. 139—124)



1. In a weaving loom with stationary weft supplies, weaving mechanism including, in combination, two weft laying members for carrying respective weft threads through sheds of warps alternately from opposite sides of the path of the latter, means for advancing each weft laying member in turn longitudinally alongside the path of the warps for the purpose of penetrating a loop of weft thread previously formed and laid at the adjacent edge of the fabric by actuation of the weft laying member at the opposite side thereof, and means for thereupon effecting diversion of the advanced member into a shed of the warps for the purpose of inserting therein a pick of the other weft thread.

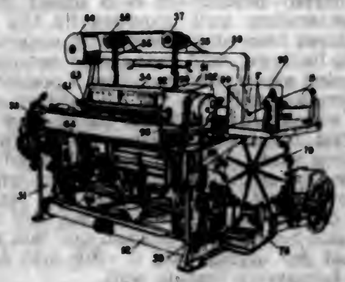
2,654,399

FILLING MOTION FOR SHUTTLELESS LOOMS

Edward J. Berry, Cranston, and George T. Allenson, Lincoln, R. I., assignors to Draper Corporation, Hopedale, Mass., a corporation of Maine

Application December 16, 1949, Serial No. 133,338
26 Claims. (Cl. 139—127)

3. In a filling motion for shuttleless looms having filling inserting means which draw and insert filling from an external source of supply, the combination of a filling clamping means and a cooperating guide means for maintaining said filling in alignment with the direction of movement of said inserting means and out of the pathway thereof, and an injecting means between said clamping and guide means and means for moving said injecting means to a position for presenting the filling in the pathway of the inserting means and for reversing its direction of movement at succeeding picks thereby to cause the filling to be taken in a reversed relationship at alternate picks.



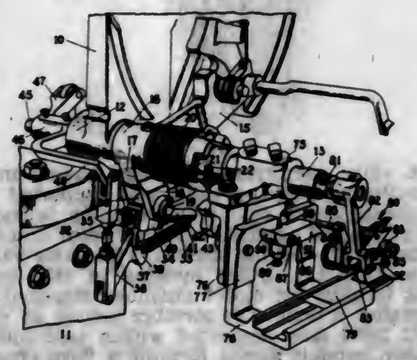
26. A thread clamp and cutter for looms of the type described comprising a fixed cutter blade and a relatively fixed clamping pad, a movable member carrying a complementary clamping pad and a cooperating cutter member and means to extend said movable member for engaging the filling to be clamped and cut, and a notched guide forming a part of said relatively movable member for guiding the filling to maintain it in alignment with its intended path through the clamp and cutter.

2,654,400

FILLING REPLENISHING MEANS FOR LOOMS

Florence F. Donoghue, Worcester, and Kenneth E. Sanderson and Joseph D. Pigott, Hopedale, Mass., assignors to Draper Corporation, Hopedale, Mass., a corporation of Maine

Application August 18, 1950, Serial No. 180,202
21 Claims. (Cl. 139—243)



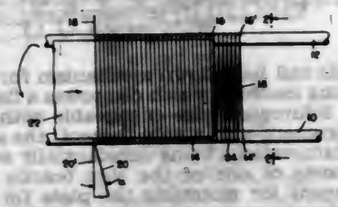
1. In a filling replenishing loom having a shuttle, a lay, lay swords, a battery for supplies of filling to be transferred and a filling supply engaging means for moving a filling supply into the shuttle upon need for replenishment, and a filling feeler, the combination of an electrically operated latch means in circuit with said feeler, a projecting means on said lay structure engageable with said latch means when the latter is moved incidentally to starting the replenishing cycle, a bunter on said lay structure and a transfer latch pivoted on said supply engaging means and movable to and from a position to engage said bunter, and linkage between said electrically operated latch means and transfer latch for imparting movement of the one to the other.

2,654,401

METHOD OF MANUFACTURE OF GRID STRUCTURES

Victor Joseph Legendre, Vauxhall, and Jerome Vincent Volk, Union, N. J., assignors to Tung-Sol Lamp Works, Inc., Newark, N. J., a corporation of Delaware

Application August 16, 1949, Serial No. 110,629
4 Claims. (Cl. 140—71.5)



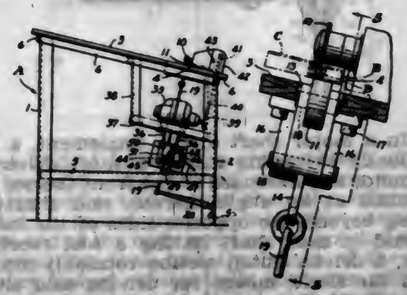
1. The method of making a grid structure for electronic tubes comprising the steps of supporting at least two support rods of soft metal in spaced parallel relation, forming a notch in one of said supports, forming a notch in the other of said supports and while forming said last mentioned notch placing the wire forming the grid in the first said notch, forming a second notch in said one support sufficiently close to said first notch as to force the body of material between said first and second notches in said one support toward the first notch to secure the wire therein and at the same time feeding the wire into the first notch in said other support, forming a second notch in said other support at a similar distance from the first notch in said other support to force the body of material between the first and second notches toward the first notch to secure the wire therein and continuing the process to complete the grid, said notches in each support having a depth greater than the distance between adjacent notches.

2,654,402

APPARATUS FOR PLACING SPLINES

Frank C. Russell, Cleveland, and Charles W. Porter, Fairview Village, Ohio, assignors to The F. C. Russell Company, Cleveland, Ohio, a corporation of Ohio

Application December 8, 1947, Serial No. 790,296
11 Claims. (Cl. 140—109)



1. A device for placing splines in grooved frames comprising a frame receiving table, a spline pressing tool mounted above the table, a member mounted on the table and movable to raise a frame above the table into association with the tool so that the tool engages a spline disposed along the groove of the frame and presses such spline into the groove, and means for actuating the tool while the latter is engaging the spline to effect relative movement of the tool and supporting member along the raised frame and spline.

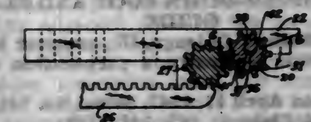
11. Apparatus for placing splines in grooved side members of sash frames or the like, a sash supporting table inclined downwardly toward a side edge thereof, a longitudinal guide on the table adjacent its lower side edge for positioning a sash with a grooved side member thereof against said guide, a spline pressing wheel positioned to overlie the grooved side member that engages said guide at a distance above the same less than the height of said guide, a vertically movable roller positioned to underlie said wheel for lifting the side of the frame engaging said guide and engaging a spline overlying the groove of the frame side member with said wheel to press the same into the groove, actuating means for raising and lowering said roller, means for driving said wheel to advance said frame along said guide and to progressively press said spline into the groove, and means operated by said roller actuating means for controlling said wheel driving means to start rotation of said wheel in response to upward movement of said roller and to stop said wheel when said roller is lowered.

2,654,403

FLAT WIRE TYING MACHINE

Ernest Ree, San Francisco, Calif.

Application May 15, 1950, Serial No. 162,063
3 Claims. (Cl. 140—115)



2. A twister pinion for wire twisting machines of the type in which an overlapped flat wire is inserted in a slot in a revoluble pinion and the overlapped portions are twisted together to form a splice in which said pinion is formed with a longitudinal slot extending radially outward from the axis of said pinion, said slot having a narrower and a wider portion with the wider portion located radially outward from the narrower portion and a substantially flat shoulder extending out from one radial wall of said slot in a direction toward and normal to the opposite wall of the slot, said shoulder being located in the slot wall which precedes the opposite wall in the direction of rotation of the pinion.

2,654,404

MULTIPLE CHAIN SAW MACHINE FOR CUTTING TIMBER

Franz Neuhauser and Rudolf Prinz, Vienna, Austria

Application February 19, 1951, Serial No. 211,066
In Austria February 22, 1950
12 Claims. (Cl. 142—32)

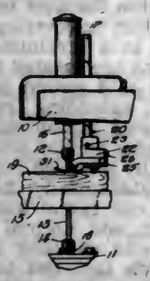
1. Sawing apparatus comprising, in combination, a main frame; a secondary frame having a free side and being connected to said main frame for movement with respect thereto into and out of an operative position in said main frame where said free side of said secondary frame is located

closely adjacent to a part of said main frame; a pair of saw chain support means turnably mounted on said secondary frame and being movable therewith into and out of said operative position thereof, said pair of support means being mounted on said secondary frame for respective movement toward and away from each other so



that a saw chain may be removed over said free side of said secondary frame after the latter is moved out of said operating position thereof and after movement of said pair of support means respectively toward each other; and drive means associated with at least one of said support means for turning the same so as to move a saw chain supported by said pair of support means.

2,654,405
JIGSAW HOLD-DOWN FOOT AND BLADE GUIDE
Buford W. Hulfish, Chicago, Ill., assignor to Birtman Electric Company, a corporation of Illinois
Application April 17, 1947, Serial No. 741,973
4 Claims. (Cl. 143—162)



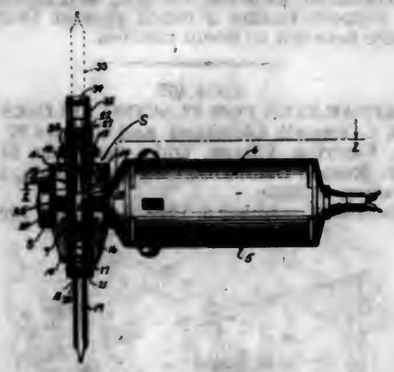
1. A holddown foot for a saw having a longitudinally movable saw blade therein, an upper arm for holding the upper end of the saw blade, and a work support table through which the blade extends, said foot comprising a rod member adapted to extend through said upper arm and be held adjacent the saw blade, a generally U-shaped support portion having a base and separate legs abutting the base and fastened to the bottom end of the bar member with the open end of the U extending toward the saw blade, one leg of said U-shaped member being movable bodily with relation to the other leg, a saw blade bearing member adapted to be slidably held within the U with one end bearing against the back of the saw blade, means for clamping the legs of the U toward each other to hold the bearing member in a desired position, and a spring member held in place by said clamping member and adapted to bear against the work and hold it against the table.

2,654,406
MACHINE FOR ASSEMBLING LADDERS
Howard B. Rich, Carrollton, Ky., assignor to Howard B. Rich, Inc., Carrollton, Ky., a corporation of Kentucky
Application July 26, 1951, Serial No. 238,711
2 Claims. (Cl. 144—2)



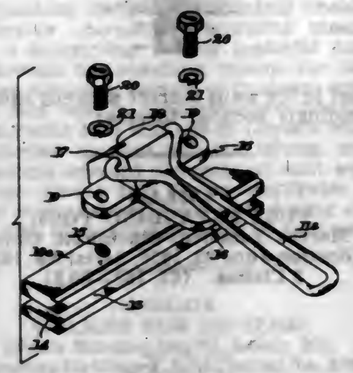
1. A side rail hold-down mechanism for a ladder-forming machine which comprises a flat plate having a bifurcated edge engageable with a side rail in alignment with a gain thereof; the spacing between bifurcations being substantially equal to the thickness of one of the step boards of the ladder, means for mounting the plate for reciprocation transversely of the side rail between a side rail engaging position in which the bifurcations overlie the side rail with the slot between the bifurcations aligned with one of the gains in the side rail and a released position in which the plate is disengaged from the side rail, said plate having an opening therethrough spaced from the bifurcations and extending transversely of the direction of movement thereof, a crank having a head extending into the opening in the plate, and means for swinging the crank to reciprocate the plate between side rail engaging and released positions.

2,654,407
MOTOR-DRIVEN SCREW DRIVER
Albert J. Dremel, Racine, Wis.
Application August 4, 1952, Serial No. 302,518
3 Claims. (Cl. 144—32)



3. In a motor shaft driven implement, a longitudinally extending motor, a shaft driven by said motor and arranged at the front thereof and extending at an angle thereto, said shaft extending beyond the opposite sides of the motor, one end of said shaft having a tool receiving chuck, a driven clutch section rotatably mounted on the shaft, means for driving said clutch section from the motor, a second clutch section slidably mounted on the shaft for rotation therewith, a nut threaded on said shaft, an expansion spring confined between the nut and the last mentioned clutch section for normally holding the clutch sections into driving engagement, and a lock nut threaded on the outer end of the shaft against said first mentioned nut, said lock nut instituting a tool receiving chuck.

2,654,408
FLOOR LAYING TOOL
Allan C. Leslie, Watrous, Saskatchewan, Canada
Application November 6, 1950, Serial No. 194,211
In Canada November 10, 1949
2 Claims. (Cl. 145—1)



1. A floor laying tool comprising a body portion and a handle portion, said body portion being of generally square vertical cross-section and of an elongated rectangular horizontal cross-section, said body portion having a horizontal groove formed in and extending along the complete length of one longitudinal side thereof, said body portion being of a height substantially corresponding to that of the flooring board it is designed to drive, said groove being complementary in shape to the tongue of said flooring board and disposed the same distance from the base of said body portion as said tongue is disposed from the base of said flooring board, said body portion being detachably connected to a foot plate, and said handle being detachably hingedly connected to said foot plate.

2,654,409
BILLFOLD
Harlan S. Cox, Danville, Ill.
Application June 11, 1951, Serial No. 230,946
4 Claims. (Cl. 150—38)



1. A billfold formed of a unitary blank of flexible material, said billfold comprising a body member wider and longer than the bills to be carried, a pocket member integrally connected to one end of the body member, said pocket member being less than half the length of the body member and of substantially the same width as the body member and folded over on the body member, one free side edge of the pocket member being secured to the adjacent edge portion of the body member, and a bill holding lug extending from the free corner of the pocket member lengthwise of the body member.

2,654,410
LOCKING DEVICE FOR TOOLHOLDING OR LIKE SET-SCREWS
Sidney Ernest Procter, Aylesbury, England, assignor to Austin Hoy & Company Limited, Aylesbury, England, a British company
Application July 14, 1947, Serial No. 760,769
In Great Britain February 9, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires February 9, 1964
4 Claims. (Cl. 151—25)



1. In combination, an externally threaded set-screw having a helical thread adapted to fit and cooperate with an internal screw thread and having a forward end and having its thread interrupted for a portion of one convolution thereof at a point adjacent, but spaced from said forward end, the interruption of said thread resulting in the presence of a helically extending groove and said set-screw having at the opposite ends of said groove radially inwardly extending recesses, and a part-turn of wire received in said groove and having radially inturned ends, and of a free curvature requiring compression for the same to be received in the groove of the internal screw thread, said inturned ends received in said recesses and smaller than the latter and having the distance between them, measured along the length of said wire, greater than the distance between the adjacent sides of the mouths of said recesses measured along the bottom of said groove, and having the distance between their outer sides, measured along the length of said wire, less than the distance between the more remote sides of the mouths of said recesses measured along the bottom of said groove, whereby relative shifting between said set-screw and said wire may take place upon rotation of said set-screw in either direction, the rearward side of the recess which is ahead during any particular rotation of the screw engaging the rearward side of the inturned end at the then forward end of said wire, and pulling said wire along the internal screw thread in frictional contact with the latter.

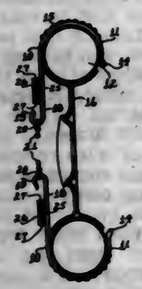
2,654,411
BOLT WITH CLIP RETAINING MEANS
William A. Bedford, Jr., North Scituate, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application September 29, 1951, Serial No. 248,962
3 Claims. (Cl. 151—41.75)



1. A fastening device for assembly onto an edge of a panel having an edge portion offset

from the plane of the adjacent portion of the panel forming a shoulder spaced from the edge and facing away therefrom, said fastener comprising a substantially flat body having an edge portion offset from the plane of the body to conform generally in shape to the offset edge portion of the panel, a threaded member mounted in the medial portion of the plate and extending upwardly therefrom, spaced reverse bend panel gripping members formed at opposite side edges of the body and extending from said offset edge for gripping the offset edge of the panel, spaced tongue members formed in opposite side edges of the body in spaced relation to the offset edge and extending theretoward for abutting said shoulder on the panel when the fastener is assembled thereon.

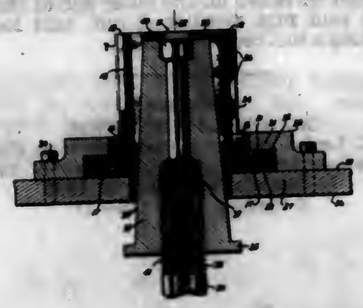
2,654,412
AUTOMOBILE WHEEL TRACTION DEVICE
Ozzie F. Caloiaro, Rutland, Mass.
Application April 16, 1952, Serial No. 282,570
3 Claims. (Cl. 152—226)



1. An automobile tire traction device comprising a set of traction hooks shaped to be removably hooked over the tire tread in a spaced relationship, a ring adapted to be mounted outside of and adjacent to the wheel concentric to but radially inwardly of the tire tread, means for irremovably securing the ring to the hooks and permitting free circumferential movement of each hook relative to and around the ring to provide for assembly of the hooks on the tire at one general location, and a spring tension device connected to the inner ends of the hooks which yieldingly urges each hook into a traction position relative to the tire and provides for creepage thereof.

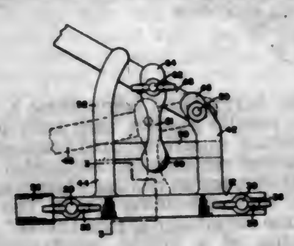
2,654,413
EXPANSIBLE MANDREL
Joseph C. Weidel, Benita, Calif., assignor to Rohr Aircraft Corporation, Chula Vista, Calif., a corporation of California
Application March 24, 1951, Serial No. 217,349
3 Claims. (Cl. 153—80)

1. A hollow mandrel adapted to be expanded by the conical cam surface of a power-operated plunger, comprising: a plurality of radially disposed rigid blades, the opposite faces of each blade being in full contact with the faces of the adjacent blades, each of said faces being provided with a groove extending lengthwise the entire length of the face, the inner edges of said blades extending to form a conical surface adapted to be engaged by said cam surface and the outer edges of said blades forming a cylindrical surface adapted to engage the inner surface of a tube to be deformed; a body of resilient rubber-like material disposed between said blades extending into and filling said grooves and being



attached to the walls thereof whereby said blades are yieldingly secured together.

2,654,414
TUBE EXPANDING TOOL
Marcus Tomarin, Cincinnati, Ohio
Application June 23, 1950, Serial No. 169,908
3 Claims. (Cl. 153—80.5)



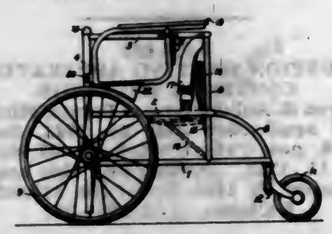
1. A portable manually operable tube expanding tool including a pair of elongated clamping members having opposed recesses intermediate the ends thereof, complementary sections of a tube gripping element to removably fit into said recesses for supporting a tube to be expanded, separate means at opposite ends of the clamping members for releasably securing the same together and for tightening the clamping members onto a tube received between the sections of said tube gripping element, a fulcrum post integral with one end portion of one of the clamping members, an actuator lever pivotally connected at one end to the fulcrum post for movement in only a single plane toward and from the clamping members, a stem pivotally connected at one end to the actuator lever intermediate the ends thereof and extending therefrom toward the clamping members, a spherical die rigidly secured to the outer end of said stem, a second lever rigidly secured to that one of the clamping members with which said fulcrum post is integrally formed, said second lever extending longitudinally in the plane of movement of the actuating lever from the opposite end of the clamping member on which the fulcrum post is located, said spherical die being insertable into the free outer end of a tube supported between the clamping members incident to relative movement of the actuating lever and second lever toward one another for forcing the spherical die a substantial distance into the tube for expanding that portion of the tube which projects from said tube gripping element toward the spherical die to form an elongated tubular sleeve portion.

2,654,415
METHOD AND MACHINE FOR MAKING INLAID PRODUCTS
Walter E. Benedict, Newton, and Joseph G. Van Selver, Philadelphia, Pa., assignors, by mesne assignments, to Congoleum-Nairn Inc., Kearny, N. J., a corporation of New York
Application August 9, 1951, Serial No. 241,128
20 Claims. (Cl. 154—24)



1. A machine for producing inlaid linoleum in a continuous operation comprising means for moving a supporting web of material continuously through the machine, means for depositing design elements formed of linoleum composition on said web in predetermined positions, a device movable into and out of contact with elements carried by said web for lifting, rotating and resetting selected elements on said web and means for moving said device lengthwise of the machine to travel with said web during contact thereof with elements supported by said web.

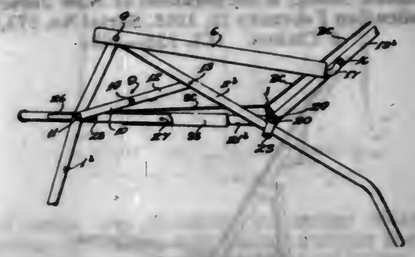
2,654,416
WALKER FOR INVALIDS
Pietro Maniscalco, St. Louis, Mo.
Application October 3, 1951, Serial No. 249,553
3 Claims. (Cl. 155—24)



1. A walker for invalids comprising, a U-shaped frame open at the front, a pair of road wheels supporting the front portion of said frame, a tail wheel supporting the rear portion of said frame, an arm rest pivoted on the upper portion of said frame, and a brake connected with said arm rest and engageable with one of said wheels whereby downward pressure on said arm rest causes engagement of said brake with said wheel.

2,654,417
FOLDABLE RECLINING CHAIR
Alvin Kirchofer, Newburgh, N. Y., assignor to Newburgh Metal Mfg. Corp., Newburgh, N. Y., a corporation of New York
Application March 1, 1950, Serial No. 147,919
6 Claims. (Cl. 155—117)

3. A folding chair of the type described comprising a pair of front and back leg frames, a pair of arms, means for pivotally connecting said arms at the forward ends to the corresponding free ends of said leg frames on common pivot points, said back leg frame including portions extending upwardly towards said connections with said arms, pairs of pivotally connected links interconnecting said leg frames to lock them in a fixed open position, U-shaped back and seat frames, a rod pivotally interconnecting pairs of ends of the back and seat frames near the open end of each frame, deformable resilient rollers mounted on the ends of said rod and riding on said upwardly extending portions of the back leg frame, means for pivotally connecting each



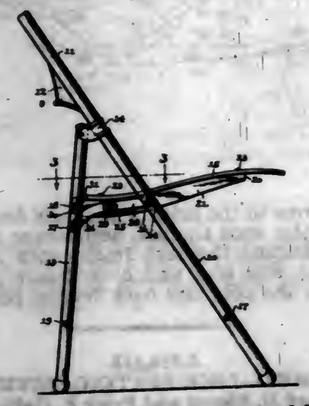
of said arms to the sides of the back frame intermediate the ends thereof, and means for pivotally connecting the seat frame with said front leg frame, and seat and back frame covers attached to the seat and back frames respectively.

2,654,418
WHEEL-LIKE SEATING DEVICE
Edward H. Bisner and Peter P. Gallagher, Hollywood, Fla.
Application May 12, 1953, Serial No. 287,374
8 Claims. (Cl. 155—139)



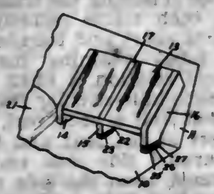
6. A rolling wheel-like multiple chair supporting device that includes a pair of identical half-circular frames hinged together at one side, latch means for retaining the frames in a wheel-like position, each frame embodying a pair of identical spaced apart and parallel half-circular tubes, cross tubes retaining the half-circular tubes in spaced relation, a chair device rigidly supported in each half-circular frame, each chair including a seat and a back rest, a rigid frame for the support of the seat and back rest that consists of parallel side rails and parallel end rails, legs formed upon the side rails and having rigid connection with the half-circular tubes of their respective half-circular frame, brackets shiftable upon the side rails, the back rest consisting of a fabric supporting frame having its ends supported in the brackets, the back rests being bodily shiftable upon the side rails to be disposed at either end of the chair frame, a seat secured to the chair frame, arm rests for the opposite sides of each chair, supporting means for the arm rests that is rigidly connected to the legs, a tray device rigidly supported adjacent each chair, the half circular frames being hingedly connected at one side to be swung apart in an arc to be disposed in end to end relation to position their respective chairs in seating position, the frames when in wheel-like position being in abutting relation with their respective chairs in opposed relation and latch means for retaining the frames in the wheel-like position.

2,654,419
FOLDING CHAIR
Walter E. Nordmark, Grand Rapids, Mich., assignor to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Application February 28, 1952, Serial No. 273,871
6 Claims. (Cl. 155—142)



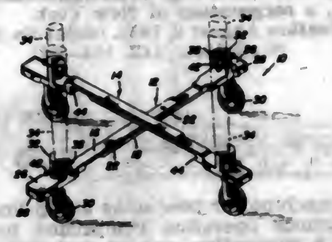
1. A folding chair comprising spaced front legs, spaced rear legs having their upper ends hingedly connected to the front legs, a seat pivotally and slidably mounted between said front legs, a link pivotally connected to one of the rear legs and having a pin-and-slot connection with the seat, a stop on one of said rear legs, a hook extending from the rear of the seat rearwardly, then upwardly and then forwardly, and cam means on the seat engageable with the stop on said rear leg for sliding the seat forwardly during the final unfolding of the chair thus to engage said hook around said stop to prevent either raising or lowering movement of the rearward edge of the seat in the unfolded position of the chair.

2,654,420
FOOTREST
Lester R. Rogers, Butte, Mont.
Application May 21, 1951, Serial No. 227,490
2 Claims. (Cl. 155—169)



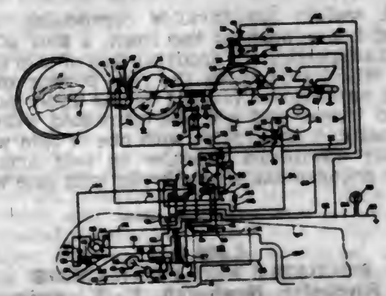
1. A foot rest adapted to be placed at the floor and toeboard of an automobile wherein the floor slopes downward from the center toward the side of the automobile, said foot-rest comprising a platform and a plurality of footing means attached beneath the platform and supporting the platform at a position substantially parallel and spaced from the toeboard, one of said footing means being nearer to the side of the automobile than another, and shim means connected with said last mentioned footing means, said shim means comprising a plurality of shims each of which is mounted on an arm pivoted to said last mentioned footing means and adapted to be swung into and out of position beneath said last-mentioned footing means, the arms being arranged so that when a plurality of the shims are swung into position beneath the footing means the shims are located one under another.

2,654,421
WHEELED BASE FOR CHAIRS
Roy G. Neff, Burlington, Iowa
Application June 9, 1949, Serial No. 98,647
2 Claims. (Cl. 155—138)



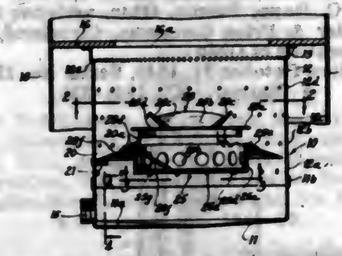
1. In combination with a chair including four legs, a wheeled base comprising a pair of independent and disconnected base members disposed in overlying X-shaped formation by virtue of their attachment to diagonally opposed chair legs, the upper of said members being provided with a downwardly offset portion adjacent each end thereof whereby the portion intermediate the offsets will clear the lower member, chair leg mounting brackets provided on the upper surfaces of said members at points spaced inwardly from the ends of the latter, elements securing the chair legs to the respective brackets whereby end portions of said members project outwardly beyond the chair legs, and casters provided on the under side of the projecting end portions of said members.

2,654,422
COMBUSTION HEATING APPARATUS AND CONTROLS THEREFOR
Fred B. Aubert, Grosse Pointe, Mich.
Original application July 26, 1943, Serial No. 496,099, now Patent No. 2,484,002, dated October 11, 1949. Divided and this application September 10, 1949, Serial No. 115,062
6 Claims. (Cl. 158—28)



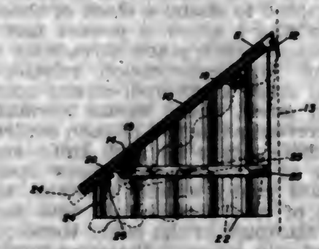
2. In an aircraft heating system having a heater of the sealed combustion type, and having a scoop or ram and a blower for supplying air to the heater, the combination of a housing connected to said scoop or ram, to the outlet of said blower and to the inlet of said heater, a member having a range of movement and movable toward one limit of its range in response to the pressure of the air flowing from said scoop or ram and yieldably biased in the opposite direction, and a control device actuated by said movable member and operative to stop and start the blower, said control device being so actuated for starting the blower when the pressure from the scoop or ram falls below a predetermined value and permits said member to move in said opposite direction.

2,654,423
OIL BURNER AND FIRE CONTROL DEVICE
Jackson G. Gilmore and William H. Gilmore, Columbus, Ohio; William H. Gilmore, executor of said Jackson G. Gilmore, deceased
Application March 14, 1949, Serial No. 81,276
12 Claims. (Cl. 158—91)



11. A fire-control device for oil burners comprising a member having an apertured collar portion and a transverse bottom plate, a shielding member of plate-like construction superimposed upon said member in spaced relation thereto and provided with ports therethrough and deflector members overlying said ports.

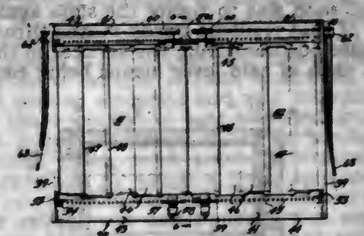
2,654,424
AWNING, CANOPY, ETC.
Allen O. Liberatore, Baltimore, Md.
Application July 12, 1949, Serial No. 104,181
2 Claims. (Cl. 160—58)



2. An awning comprising a sloping roof of a suitable corrugated material forming a plurality of ridges and valleys, side members and a valance similarly corrugated and a flashing plate attached to the upper edge of the roof, the valance being attached to the roof affording natural apertures for ventilation and light purposes between the top edge of the side members and valance and the bottom side of the roof, the side members and valance being collapsible against the roof.

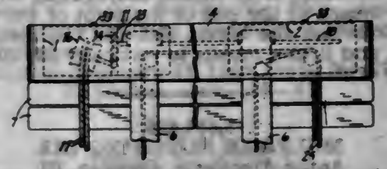
2,654,425
METAL AWNING OR SHUTTER
De Elden E. Haynes, Floral Park, N. Y.
Application July 29, 1950, Serial No. 176,623
4 Claims. (Cl. 160—62)

1. In an awning structure having a louver section including louvers and lazy-tong links for opening and closing the louvers of said section, a rectangular frame including upper and lower horizontal channel portions, an anchor bar at one end of each louver section, means for securing the bar to the frame, a shaft at the opposite free end of said louver section, gears on said shaft, a perforated rack formed in each channel portion with which the gears mesh, a roller on the lower end of said shaft engaging a wall of the lower channel for supporting the louver section and sustaining the gears in aligned relation with



said racks, and manually controlled means for rotating the shafts and gears to adjust the relative position of the free end of said louver.

2,654,426
HEAD BOX CONSTRUCTION FOR VENETIAN BLINDS AND MOUNTING BRACKET THEREFOR
Glenn L. Sherwood, Benton Harbor, Mich.
Application June 4, 1948, Serial No. 31,946
9 Claims. (Cl. 160—168)

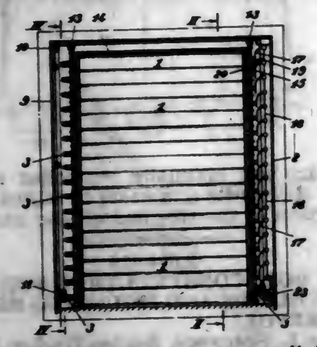


1. Supporting and enclosing structure for the operating mechanism of a longitudinally adjustable Venetian blind comprising, a pair of upwardly opening channel shaped body members, blind tilting and lifting mechanisms supported by said body members, a rear rail having a longitudinally adjustable connection to the rear walls of said body members, brackets for supporting each of said body members longitudinally adjustably secured to the webs of said body members, downwardly turned ears extending from the bottom of the front walls of said body members, a facia piece extending across the front of said body members and having a rearwardly turned lower flange hooked underneath said ears, a rearwardly turned flange on the top of said facia piece extending over the front walls of said body members, the front walls of said body members having lugs pressed rearwardly therefrom, and screws extending through the upper flange of said facia piece and yieldably engageable with said lugs for retaining said facia on said body members.

2,654,427
CONTROL SYSTEM FOR WINDOW SHUTTERS
Orlando Vicci, Tuffilo, Italy
Application August 27, 1951, Serial No. 243,900
In Italy August 28, 1950
4 Claims. (Cl. 160—172)

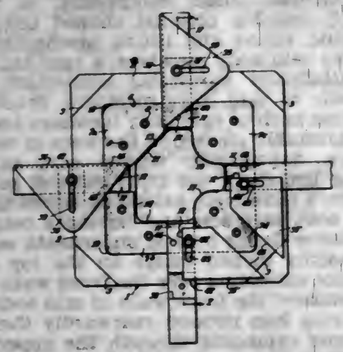
1. A control system for Venetian blind comprising, in combination, a plurality of shutter slats each slidably and resiliently mounted on a central horizontal shaft at each end thereof in a framework, each slat being provided at its two ends with a pivot by which the slats are each connected to the corresponding pivot at the center of articulated parallelogram elements of a lazy-tongs lever which is slidably movable up a vertical guide and connected to the top of the guide at the top of the framework, resilient spring means mounted at one end of the pivot of each

slat to urge the slat in a substantially vertical position, a lever means at the other end of the pivot of each slat to rotate the slats against the action of said resilient spring means through the successive positions from the vertical to the horizontal, each of said lever means being connected



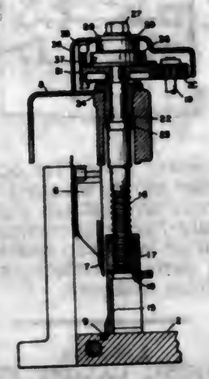
to a common vertical rod to transmit the rotation from the lower slat to the upper slats, manually operated lever means cooperating with the lever means at the end of the pivot of the lowest slat to rotate the lowest slat and the remaining slats, and lifting means to vertically lift the plurality of slats.

2,654,428
MULTIPLE NOTCHING DIE
Anton Martincic, Chicago, Ill.
Application October 19, 1949, Serial No. 122,258
16 Claims. (Cl. 164—31)



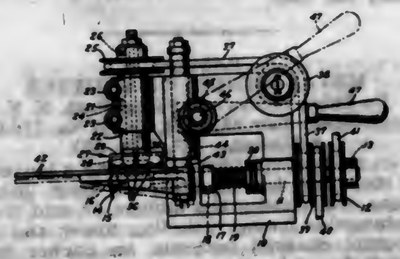
1. In a punching die, the combination of a female die member and a co-operable male punch member moveable relative to each other on a pre-determined axis, co-operating means on the die and punch members for maintaining the same in axial alignment during relative movement therebetween, a plurality of die blocks radially arranged about said axis, said punch member having a portion for each block complementary to and co-operable with a portion of the latter, one of said blocks being constructed to be selectively positioned relative to the base member whereby a second portion of such block may be positioned to co-operate with said punch member, a block adapted to be removably secured to the punch member and having a portion complementary to and co-operable with the second portion of said die block when the latter portion is in operable position, radially extending guide supporting bars carried by said die member, each bar being positioned between adjacent die blocks, and a pair of guide members, each mounted on one of an adjacent pair of said bars and adjustable relative to the die block therebetween for guiding material relative to the co-operating portions of such die block and punch member.

2,654,429
KNIFE CONTROL FOR PAPER-CUTTING MACHINES
William C. Rupp, Parma, Ohio, assignor to The Chandler & Price Company, Cleveland, Ohio, a corporation of Ohio
Application October 27, 1949, Serial No. 123,865
7 Claims. (Cl. 164—53)



6. In a power driven paper cutting machine including a knife adapted to be operated to make a cut, and manual control means adapted to actuate drive mechanism for such knife; a binder clamp adapted to clamp a stack of sheets or the like comprising a screw, a presser foot adapted to bear against such stack threadedly engaging said screw for reciprocation relative thereto when said screw is rotated, means operative to drive said screw, guard means normally operative to prevent actuation of such control means for such drive means for such knife, and means responsive to lifting of said screw operative to release said guard means, whereby, upon engagement of said presser foot with such stack and firm clamping of the latter thereby, further rotation of said screw in the same direction will serve to lift the same to release said guard means.

2,654,430
ROTARY CUTTING MACHINE
Paul George Caigi, Bridgeport, Conn., assignor, by mesne assignments, to Lico Manufacturing Co., Inc., Bridgeport, Conn., a corporation of Connecticut
Application March 14, 1950, Serial No. 149,519
2 Claims. (Cl. 164—90)



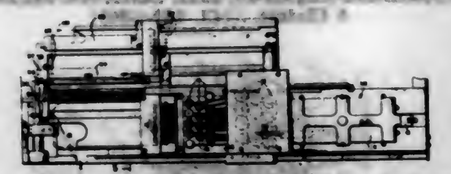
1. In a cutting or trimming machine, in combination, a disc having a circular cutting edge lying in its outermost periphery, said disc being mounted for rotation on an axis perpendicular to a plane through said cutting edge, a cup having a circular cutting edge lying in its inner periphery, said cup being mounted for rotation on an axis perpendicular to a plane through said cutting edge, said cup and disc being so mounted with respect to each other than said planes intersect in a line which forms a chord of both circular cutting edges, and said cup having a series of circumferentially spaced concavely curved notches in its outer periphery with the walls of said notches bevelled and tapering through the cutting edge of the cup.

2,654,431
WEB SEVERING DEVICE
Cyril P. Feldhausen, Wauwatosa, Robert M. Lommen, Milwaukee, and William H. Rouse, Greenfield, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application July 15, 1948, Serial No. 38,868
4 Claims. (Cl. 164—90)



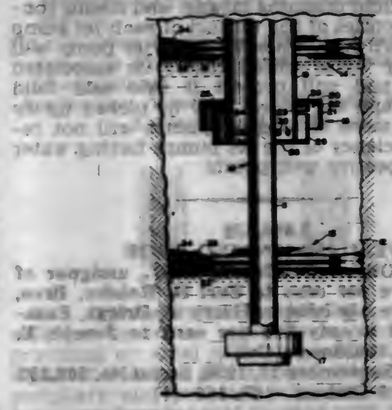
1. A printing press web severing device comprising a tubular bridge member for mounting between the side frames of a printing press, an elongated web guide member secured to one side of said bridge member in spaced parallel relation with respect thereto to provide a narrow web receiving space between said members, said guide member being of tubular form and being provided with a longitudinal slot in the side opposite said bridge member which is outwardly V-tapered in transverse cross section, and an elongated web severing blade normally concealed within said bridge member, said blade in transverse cross section being of a width greater than the bottom of said slot and having a saw tooth edge which is transversely complementally tapered with respect to said slot, and said blade being movable outwardly through a slot in one side thereof into a projected position wherein the same enters and engages said guide member within said slot of the latter for severing of a web traveling in the space between said bridge and guide members.

2,654,432
CARD PUNCHING MACHINE
Charles R. Doty, Poughkeepsie, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 27, 1950, Serial No. 202,570
3 Claims. (Cl. 164—113)



1. In a card punching machine adapted to utilize a master card and having a plurality of punch elements for selectively perforating the index points of a record card to represent data therein, the combination of master card reading means including a plurality of sensing elements respectively cooperable with the index points of the master card for sensing data designations recorded therein, a plurality of punch interposers associated respectively with the punch elements and respectively corresponding to the various index points of the record card, keys for setting said punch interposers selectively to condition the punch elements for perforating the record card, a punch action including an electromagnet operable to actuate those punch elements that have been conditioned by the setting of said interposers, punch action supervising means including a plurality of editing circuits controlled jointly by said sensing elements and said interposers to permit the operation of said electromagnet only when a punch interposer is set for producing a perforation at an index point corresponding to an index point at which a data designation is sensed by a sensing element, cutout means for optionally cutting out said punch action supervising means to permit the operation of said electromagnet each time one of said interposers is actuated, and alternative control means including devices for actuating said punch interposers individually under the sole control of said master card sensing elements to duplicate information from the master card into the record card, said alternative control means being governed by said cutout means to take effect when said punch action supervising means is cut out.

2,654,433
PACKING DEVICE
Raymond G. Piety, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application February 21, 1949, Serial No. 77,634
21 Claims. (Cl. 166—1)

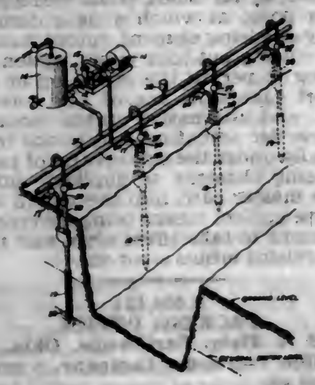


1. A packing device for sealing off a section of a drill hole comprising, in combination, an elongated pipe positioned in said drill hole, an annular member of resilient material having its inner edge in sealing engagement with said pipe, and bristles embedded in and extending, in a sufficiently closely packed formation as to provide a liquid seal, from the outer edge of said resilient member for engagement with the wall of the drill hole, said bristles being wetted by well fluid to cause adhesion thereof to the drill hole walls, thereby to prevent leakage of fluid in a vertical direction through the packing device.

2,654,434
APPARATUS FOR DEYING EXCAVATIONS
John T. Culleton, Hayward, Calif., assignor to Pacific Pumping Company, Oakland, Calif., a corporation of California
Application June 10, 1950, Serial No. 167,439
4 Claims. (Cl. 166—1)

1. In a continuous automatic dewatering system for evacuating water or other fluids which come into an excavation or into the ground adjacent to it, the combination of a plurality of

well points set in the ground adjacent said excavation each with its inlet opening at about the level at which it is desired to hold any seepage; a jet pump including a venturi in communication with each well point, said pump having its inlet connected to the outlet of its associated well point, a fluid pressure feed manifold, a continuous fluid pumping means, having its outlet connected to said fluid pressure feed manifold; means connecting the intake conduit



of the jet of each jet pump to said pressure feed manifold; a fluid return line connected to said continuous fluid pumping means; and means connecting the outlet of the venturi of each jet pump to said return line, whereby each jet pump will pick up any water which enters its associated well point and will project it into said fluid return line and air which may be picked up by any one or more of said jet pumps will not reduce the efficiency of the jet pumps having water in their respective well points.

2,654,425

WELL CEMENTING SHOE

John Glen Oliver, Bellflower, Calif., assignor of twenty-five per cent to Earl H. Rehder, Brea, twenty-five per cent to Harry H. Briggs, Pasadena, and twenty-five per cent to Joseph E. McMillan, Bellflower, Calif.

Application September 12, 1952, Serial No. 309,292

5 Claims. (Cl. 166—4)



1. A device for centralizing pipe adapted to be lowered into a well comprising a tubular body attachable to the pipe, belly springs on the exterior of the body biased to spring outwardly to engage the well walls, stems on the belly springs extending inwardly through the walls of the body to the interior thereof, retaining means engageable with the stems to hold the springs collapsed against the exterior of the body while the same are being lowered into the well, and means responsive to pressure within the body for causing said retaining means to release the stems.
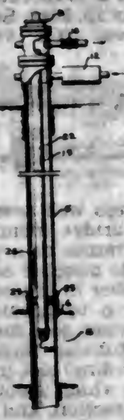
2,654,426

METHOD OF TREATING WELL FLUIDS

Willis C. Carlisle and John H. McCarvell, Houston, Tex., assignors to Macco Oil Tool Company, Inc., a corporation of Texas

Application July 16, 1951, Serial No. 236,922

2 Claims. (Cl. 166—21)



1. A method of preventing corrosion in a well comprising the steps of introducing a column of a corrosion inhibiting chemical into an annular passage between a well tubing and a well casing, continuing the introducing until said column is of a length substantially equal to the length of the well tubing, thereafter pumping into said column an additional quantity of chemical, and forcing said additional quantity into said well tubing near the bottom of said column of chemical against the pressure in said well tubing.

2,654,427

MUFFLER WITH A HEMISPHERICAL OUTER WALL HAVING A PLURALITY OF APERTURES OF VARIOUS SIZES AND SHAPES

Ernest C. Weeds, Omaha, Nebr.

Application August 10, 1951, Serial No. 241,187

4 Claims. (Cl. 181—60)



1. A muffler for an internal combustion engine comprising a body portion consisting of a substantially hemispherical outer wall and a substantially flat inner wall secured to and closing the open side of said outer wall and combining therewith to define a substantially hemispherical exhaust chamber, said inner wall having a central opening adapted to receive the discharge end of an exhaust pipe from which the exhaust gases and sound waves are discharged into said exhaust chamber, said outer wall being provided with a plurality of substantially straight rows of discharge openings and apertures, said rows being circumferentially spaced relatively to one another and each including a multiplicity of apertures of various sizes and shapes through which the exhaust gases and sound waves are adapted to be discharged to the atmosphere for breaking up and diffusing the exhaust sounds, said exhaust chamber communicating with the atmosphere only through said discharge openings and apertures.

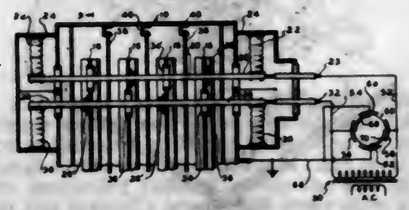
2,654,428

ELECTRICAL PRECIPITATOR

Harry A. Wintermute, Plainfield, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York

Application September 8, 1952, Serial No. 308,479

10 Claims. (Cl. 183—7)



1. An apparatus for the electrical precipitation of suspended particles comprising a non-discharge electrode system comprising spaced extended surface electrodes providing a plurality of alternating non-discharge fields of successively low and high intensity therebetween, said electrode system including a source of high potential alternating current, discharge electrode members positioned between said extended surface electrodes providing corona discharge fields in the low intensity alternating fields, said discharge electrode system including a rectifier connected to said source of alternating current, and means for passing gases containing suspended particles between said extended surface electrodes.

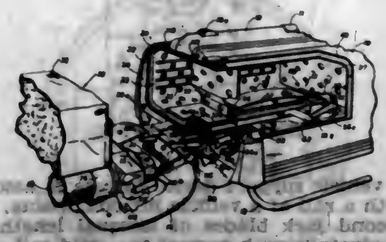
2,654,429

AUTOMATIC VACUUM CLEANER

Leon P. Berkeski, Stamford, Conn., assignor to Electrolux Corporation, New York, N. Y., a corporation of Delaware

Application May 4, 1951, Serial No. 224,575

10 Claims. (Cl. 183—51)



4. In a vacuum cleaner, a housing enclosing a dust receptacle compartment, an opening in said compartment, a dust receptacle insertable into said compartment through said opening and being formed with an inlet aperture, an inlet conduit for communicating with said aperture, releasable means for movably securing said conduit to said housing, means for ejecting said dust bag, restraining means for preventing operation of said bag ejecting means, a slidable restraining bar having a latch at one end and at the other end an inclined surface terminating in an abutment arrested by said restraining means, release of said abutment by said restraining means causing said inclined surface to subject the restraining means to still further movement, a selectively movable member settable to a position conditioning it for releasing said restraining means upon subsequent additional movement of said member, means responsive to the establishment of a predetermined pressure difference between the inside and outside of said dust bag for setting said selectively operable member to said above-mentioned position, means responsive substantially simultaneously with the setting of said electively operable member for releasing said conduit securing means, further means responsive to the further movement of said conduit for effecting the additional movement of said selectively operable member to release said restraining means, and additional means responsive to said still further movement of said restraining means for setting said selectively positionable member to a position incapable of effecting the release of said restraining means.

2,654,440

FILTER ELEMENT FORMED OF PAPER IMPREGNATED WITH THERMOPLASTIC RESIN

John Warren Robinson, Atlantic Beach, Fla., assignor to Fram Corporation, a corporation of Rhode Island

Application October 18, 1951, Serial No. 251,964

2 Claims. (Cl. 183—44)



1. A filter element comprising a plurality of cells having center openings in axial alignment providing an axial passage, each cell comprising a pair of sheets of paper contacting at their outer periphery and provided with registering center apertures forming said passage with the aperture edges spaced to communicate with the said passage, said paper sheets having a porosity of from .5 to 30 seconds Gurley and being formed from fibrous pulp with the fibers each impregnated with a thermoplastic and thermo-setting resin, said contacting edges of the sheets of paper being sealed by the resin in one sheet adhering to the resin in the other sheet and said cells being sealed one to the other by a bond formed by means of the resin in the adjacent cells.

2,654,441

LUBRICATION MEANS FOR TRANSMISSIONS

Palmer Orr and Kenneth M. Armantrout, Muncie, Ind., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

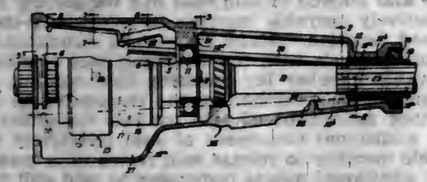
Application November 5, 1948, Serial No. 58,422

In Canada September 2, 1949

1 Claim. (Cl. 184—11)

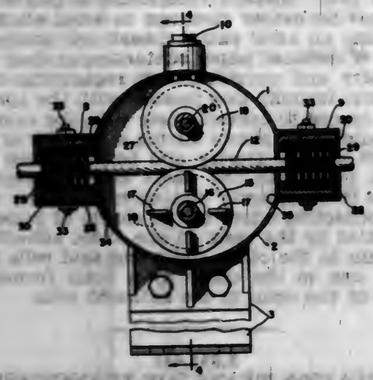
In a transmission assembly, the combination of a transmission housing comprising a main housing portion adapted to contain a liquid lubricant, a rearwardly extending elongated extension connected with the main housing portion, trans-

mission gearing mounted for rotation in a certain direction within said main housing portion, a shaft driven by said transmission gearing and extending through said extension, a bearing in the rear end of said extension for rotatively supporting said shaft, the gearing extending below the surface of the lubricant in the main housing portion, an internal transverse rib for retaining a pool of lubricant in the rear end of said extension for lubricating said bearing, said bearing comprising a metal sleeve and having a helical groove therein for drawing lubricant from the pool in the rear end of said extension to lubri-



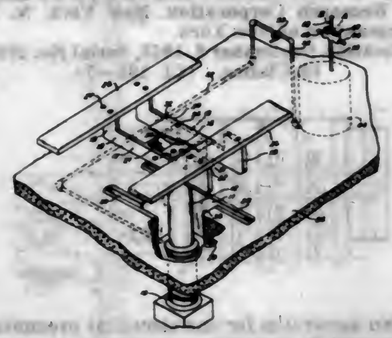
cate said bearing during rotation of said shaft, a rib formed on the sides of said housing portion and said extension and forming a lubricant channel for conveying lubricant from the main housing portion through said extension and to said bearing and disposed so that lubricant is thrown against the underside of said channel and rib by said gearing as it rotates in said direction, and a lubricant scraper rib adjacent and spaced from said first named rib in said main housing portion in said direction of rotation from said first named rib for scraping lubricant from said gearing so that it falls into said channel to be conveyed thereby to said bearing.

2,654,442
WIRE-ROPE GREASER
Michael A. Yakopatz, Seattle, Wash., assignor, by mesne assignments, to Clinton L. Mathis, Seattle, Wash.
Application July 5, 1947, Serial No. 759,225
3 Claims. (Cl. 184—17)



1. A rope greaser, comprising: a housing bottom and cap having mating flanges and means for securing said flanges together, upper and lower opposed grooved grease wheels in said housing, squeegee cases having caps and bottoms secured to the housing cap and bottom, respectively, said cases forming antechambers for the entrance and exit of rope through said housing and between said wheels in the grooves thereof, a plurality of spaced apart squeegee blades in each case for removing excess grease from such a rope, and spring means forcing said wheels against such a rope; said blades being in the form of plates arranged so that an edge of each plate will contact such rope, a plurality of said blades forming a group, a group of said blades being placed in each of said top cases and bottom cases so as to be in opposition to each other.

2,654,443
METHOD AND DEVICE FOR RAISING VEHICLES
Elmer B. Thompson, Des Moines, Iowa, assignor to Globe Hoist Company, Des Moines, Iowa, a corporation of Iowa
Application October 29, 1951, Serial No. 253,697
2 Claims. (Cl. 187—8.41)



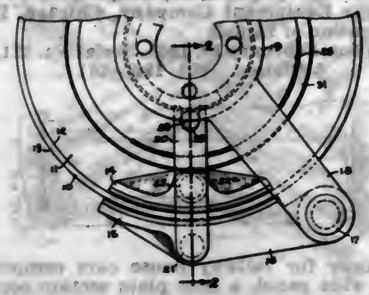
1. The method for raising automotive vehicles above a floor surface to provide access to the underside of the vehicle, wherein said vehicle has front and rear wheels and a main frame, including a pair of spaced side members having exposed undersides and extended longitudinally over at least a portion of the distance between said front and rear wheels; which comprises engaging only the exposed underside of each of said frame side members over a portion of the lengths thereof between said front and rear wheels, providing a single upwardly directed force between said side members, and concurrently transmitting said force directly to said side members.

2,654,444
VEHICLE AXLE SUPPORTING DEVICE
John D. Cochin, San Francisco, Calif.
Application October 10, 1949, Serial No. 120,580
8 Claims. (Cl. 187—8.43)



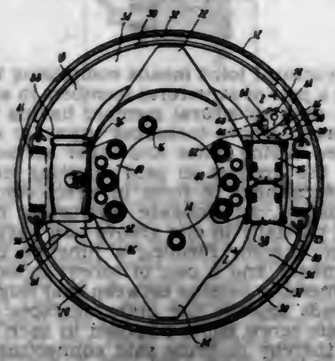
1. A vehicle support device for use in association with a rail of a vehicle lift comprising, first and second jack blades of unequal length attached pivotally with respect to a said rail, each of said jack blades movable respectively upwardly to a supporting position above the top surface of said rail and downwardly longitudinally of said rail to a non-supporting position below the top surface of said rail, the upward supporting position of the longer of said jack blades being spaced substantially farther above the top surface of said rail than the supporting position of the shorter of said jack blades, the shorter of said jack blades movable to its supporting position independently of the longer of said jack blades.

2,654,445
FRICTION DEVICE
John George Oetzel, Beloit, Wis., assignor to Warner Electric Brake & Clutch Company, a corporation of Illinois
Application March 2, 1949, Serial No. 79,253
5 Claims. (Cl. 188—76)



1. A friction device having, in combination, a rotatable cylindrical drum, two arcuate friction shoes engageable with the inner and outer peripheral surfaces of said drum, a rigid lever normally projecting radially across the end of said drum and inwardly beyond the inner shoe, parallel studs rigid with and projecting laterally from said lever parallel to the drum axis and pivotally connected to the respective shoes intermediate the ends of the latter, an anchor pivotally connected to one of said shoes to hold the latter against turning about the drum axis while permitting rocking of the shoe into and out of engagement with the drum, an actuator within said drum movable in an arcuate path about the drum axis, and means connecting said actuator and the inner end of said lever for rocking of the latter out of its normal position in response to movement of the actuator along said path.

2,654,446
BRAKE ADJUSTER
Bryan E. House, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application October 7, 1947, Serial No. 778,292
4 Claims. (Cl. 188—79.5)



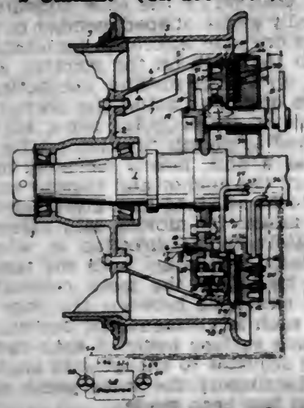
1. An adjustable friction member comprising a T-section shoe having a lined rim and a web perpendicular thereto, said rim being adapted to contact a drum member to develop friction but normally being spaced therefrom, said web having a curved serrated surface formed at one end thereof to provide cam shaped teeth of predetermined height, an adjustor for changing the retracted position of the shoe constituted by a substantially wedge-shaped member having teeth formed on one side thereof in matching engagement with the teeth on the serrated end of the shoe web, an anchor member contacting the opposite side of the adjustor, the anchor-contacting surface of the adjustor being slightly convexly curved to permit rotation of the shoe and adjustor as a unit, means yieldably urging the shoe toward the anchor and thereby causing the adjustor to be retained in a given selected position, and means for moving said adjustor in an approximately radial direction to advance the adjustor teeth in contact with the teeth on the shoe, the height of the teeth determining the minimum clearance between the shoe and the drum for each adjustment, the curvature of the serrated web surface being of such radius as to cause said adjustor to engage said anchor member at substantially the same point after each adjustment has been made.

2,654,447
SLACK ADJUSTING DEVICE FOR AIR BRAKES
John J. Daly, Cheyenne, Wyo.
Application February 23, 1950, Serial No. 145,757
9 Claims. (Cl. 188—200)



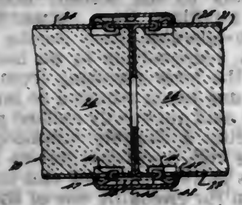
1. In an air brake system for railway cars, the combination with an air cylinder, a piston slidable in the cylinder, a piston-operable stem extending through one end of the cylinder, and a brake shifting lever; of an auxiliary stem coaxial with and mounted to slide outwardly in and relatively to the piston-operable stem, provided with ratchet teeth, and having its outer end adapted to shift said lever; a spring-pressed dog movable outwardly by the piston-operable stem and engaging the ratchet teeth for shifting the auxiliary stem outwardly and permitting its outward movement relatively to the piston; and means for shifting the auxiliary stem outwardly relatively to the piston-operable stem during an instroke of the piston, responsively to an increase in the outstroke of the lever resulting from an increase in slack, the dog being adapted to latch the auxiliary stem in said outwardly shifted position, said means including a slidably mounted rod, abutments on the rod, a ratchet device for latching the rod in its shifted position and means on the auxiliary stem for engaging one of the abutments and moving the rod outwardly during the outstroke of the piston and for engaging the other abutment during the instroke of the piston for shifting the auxiliary stem outwardly in the piston-operable stem into position to be latched by a succeeding tooth on the auxiliary stem.

2,654,448
AIR-COOLED BRAKE
Ary A. Benson, Oakland, Calif.
Application March 20, 1948, Serial No. 16,129
2 Claims. (Cl. 188—264)



1. In a brake construction, a fixed pressure plate, an axially shiftable pressure plate, an annular disk between said pressure plates, said plates being annular and in coaxial alignment, a central fixed hub around which said disk is rotatable, said disk being movable axially between said pressure plates, a wheel coaxial with said hub rotatable thereon, spring members carried by said wheel engageable with said disk for yieldably urging the latter away from said fixed pressure plate, means for moving said disk against the resistance of said spring members toward said fixed pressure plate, and means carried by said disk and frictionally engageable by said pressure plates for causing movement of air between said disk and said pressure plates during frictional engagement of said pressure plates with said means and when said disk is moved axially away from said fixed plate by said spring members, the radially inwardly directed edges of said plates being spaced outwardly from said fixed hub to provide an annular space for air between said hub and said plates, said hub being free from obstruction adjacent one side of said space and around said hub to permit the passage of outside air in a direction axially of said hub into said space.

2,654,449
SECTIONAL WALL CLIP
John D. Beamer, Milford, and John Bidak, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application June 3, 1948, Serial No. 30,954
1 Claim. (Cl. 189—34)



In combination, edgewise adjacent panel sections each having spaced sheet metal skin elements wherein edgewise adjacent skins are provided with oppositely disposed diverging slots, an integral clip member comprising a body portion, opposed inwardly extending diverging U-shaped flanges having portions extending through said slots and clampingly engaging said skin elements to thereby hold said skin elements in the aforementioned edgewise adjacent relationship and opposed L-shaped flanges extending outwardly from said body portion, and a cover strip clampingly engaging said L-shaped flanges and being disposed over the juncture of said adjacent skins.

2,654,450
RAILWAY HOUSE CAR STRUCTURE
Axel Wasberg, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application February 19, 1951, Serial No. 211,770
6 Claims. (Cl. 189—46)



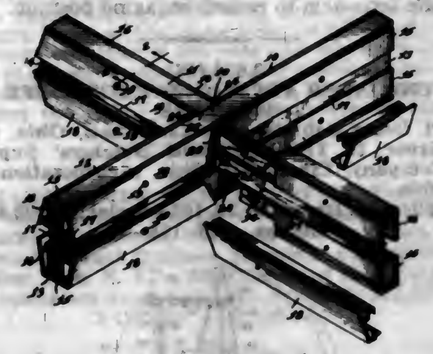
4. A door for railway house cars comprising a rigid, wide panel, a first plate section secured adjacent its upper margin to the normally inward face of said panel for extension downwardly below the bottom margin thereof throughout the length of said panel, a second plate section secured at its upper end to the normally inwardly presented face of said first plate section for extension downwardly below said panel, said first plate section projecting outwardly and downwardly immediately beneath the lower margin of said panel, then vertically downwardly in spaced, parallel relation to said second plate section, and thence downwardly and inwardly toward said second plate section to define a box section extending the length of the door, said first and second plate sections being oppositely offset in their lower portions, downwardly of said box section for defining an open-bottomed housing.

2,654,451
FRAME CONSTRUCTION
John R. Schmidgall, Los Angeles, Calif.
Application November 13, 1950, Serial No. 195,420
14 Claims. (Cl. 189—76)



13. Structural joint means comprising in combination a pair of structural members in abutting relation, each structural member having therein an undercut groove including inwardly extending ledges having outer and inner surfaces, the ends of the grooves in said abutting members being coterminous to form in effect continuous groove means, an elongate connecting member disposed partially in one groove and partially in the other, thereby forming a junction between said members, and a pair of screws in said connecting member passing between said ledges with their heads against the outer surfaces of said ledges, one screw being disposed in each of said grooves thereby to bring said connecting member into frictionally binding engagement with the inner surfaces of the ledges of each of said grooves to hold said structural members in abutting relation.

2,654,452
MUNTIN CROSS JOINT IN AN INSULATED METAL CLOSURE
Martin E. Prieus, Bristol, Ind., assignor, by mesne assignments, to Victor M. Langsett, Chicago, Ill., as trustee
Application July 16, 1952, Serial No. 299,129
3 Claims. (Cl. 189—78)



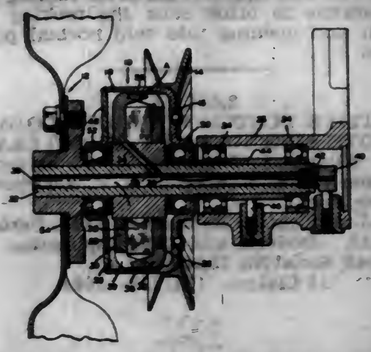
1. A muntin cross joint in an insulated metal closure comprising a horizontal insulating member extending through said joint; vertical insulating members abutting, respectively, opposite sides of said horizontal member; metal sections, channel shaped in cross-section, superimposed over opposite marginal sides of said vertical members in spaced apart relationship, extending through said joint, the respective channel side walls of said sections, removed in part, accommodating and abutting against the adjacent exterior surfaces of said horizontal member; and metal sections, channel shaped in cross-section, superimposed over opposite marginal sides of said horizontal member in spaced apart relationship, terminating at and abutting, respectively, said vertical sections.

2,654,453
STUD ASSEMBLY FOR LUGGAGE
Merris Leonard Duskin, Chicago, Ill.
Application December 8, 1947, Serial No. 790,415
7 Claims. (Cl. 190—36)



1. A supporting stud assembly for a luggage cover or the like comprising an inverted stud having a shank portion and a segmental spherical head portion, means to space said head portion below the bottom wall of the cover, said shank portion having a split outer end projecting through the wall, and a semi-rigid washer disposed about the shank portion of the stud above the wall of the cover to receive the bent over end portions of said stud when said stud is secured onto the wall, said washer affording a cushioning ring around and above the bent over end portions of the stud.

2,654,454
MAGNETIC CLUTCH
Michael C. Turkish, Centerline, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application May 15, 1950, Serial No. 161,954
7 Claims. (Cl. 192—21.5)



1. A magnetic clutch comprising a rotatable magnetic member having a hollow cylindrical surface, a second rotatable member having a plurality of circumferentially spaced interdigitated teeth, the outer peripheral surfaces of which lie in a common cylindrical zone closely spaced with respect to the cylindrical surface of the first rotatable magnetic member and defining an annular space therebetween, a flowable finely divided magnetic fluid mixture in the space between the rotatable members in an amount sufficient to bridge the said annular space but insufficient to completely fill the first cylindrical rotatable member, said teeth each being chamfered on their leading edges as related to the first rotatable member and means for producing a magnetic field between said members whereby said fluid mixture is drawn into the space between the surfaces of the teeth and the cylindrical surface of the first rotatable member.

2,654,455
ENGAGEABLE AND RELEASABLE AXLE CLUTCH
John Lydfors, Stockholm, Sweden, assignor to Aktiebolaget Dixma, Malmo, Sweden
Application February 1, 1950, Serial No. 141,685
In Sweden December 30, 1944
3 Claims. (Cl. 192—33)



1. In an axle clutch device; the combination of a driven disc having an eccentrically arranged lug thereon, a driving rotor concentric with and adjacent to said driven disc, a plurality of equidistantly and radially disposed rocking levers on said driving rotor, pivot pins arranged in the central portion of said driving rotor and carrying said rocking levers for swinging in the axial direction of said rotor from a normal path of rotation into the path of rotation of said lug, a stationary guiding wall arranged parallel and adjacent to the path of said lug, both sides of said wall being formed to serve as guiding surfaces for the outer ends of the rocking levers, said wall having

an opening therein permitting said rocking levers to pass from said normal path of rotation on one side of the wall to the other side of said wall and into said path of the lug, a stationary guiding member disposed to force the rocking levers from said normal path through said opening into said path of the lug, and an adjustable guiding member operative to bring back the rocking levers through said opening into said normal path of rotation.

2,654,456

POSITIVE CLUTCH WITH HELICOIDAL TOOTH SURFACES OF VARYING LEAD

Ernest Wildhaber, Brighton, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York

Original application January 4, 1943, Serial No. 471,233. Divided and this application April 20, 1948, Serial No. 22,309
14 Claims. (Cl. 192—108)



1. A pair of toothed face clutch members whose teeth are chamfered along their top edges, the chamfered portions of the teeth of each member being helicoidal surfaces conjugate to the chamfered portions of the teeth of the other member.

2,654,457

PHONOGRAPH CONTROL MEANS

Louis C. Ammlung, Jr., Philadelphia, Pa., and John A. Tourtellot, Merchantville, N. J., assignors to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application October 28, 1948, Serial No. 56,976
7 Claims. (Cl. 192—124)



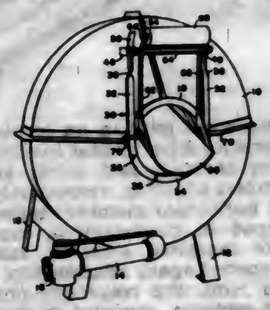
1. A phonograph control mechanism comprising, in combination with a turntable and a tone-arm movable into and out of record-engaging position, an electric motor coupled with the turntable to rotate the same, a pair of switches connected in series with said motor, control means cooperating with the tone-arm to effect opening of one switch and closing of the other switch in response to movement of the tone-arm from record-engaging position, to effect closing of said one switch in response to movement of the tone-arm to record-engaging position, and to effect opening of said other switch in response to movement of the tone-arm upon reaching the end of the playing of a record, and means connected with the tone-arm and effective to provide for uncoupling of the motor from the turntable in response to movement of the tone-arm from record-engaging position, and for coupling of the motor to the turntable in response to movement of the tone-arm to record-engaging position.

2,654,458

UNLOADER ATTACHMENT FOR TRIPE SCALDERS

Carl Oscar Schmidt, Jr., Cincinnati, Ohio, assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio, a corporation of Ohio

Application December 23, 1950, Serial No. 202,489
2 Claims. (Cl. 192—18)



1. A preformed unitary unloader attachment for a conventional tripe scalder, which tripe scalder has a casing including a wall formed with a central port bordered by a stiff ring constituting a throat; said unloader comprising a U-shaped bracket formed of a strip of stiff sheet metal and having vertical legs connected at lower ends by an arcuate bridge portion integral therewith, said bracket being of dimensions adapting it to be mounted about the port of the scalder with its bridge portion bearing against the outer surface of the ring for a portion of the circumference thereof and registering with the lower portion of the throat and its legs projecting upwardly above the port at opposite sides thereof, the legs being twisted near their upper ends and terminating in arms projecting forwardly from upper ends of said legs at right angles thereto, a substantially U-shaped yoke having a bridge adapted to be immovably secured horizontally to the outer surface of the wall of the scalder in upwardly spaced relation to the port, the yoke having horizontal arms projecting forwardly from ends of its bridge along outer surfaces of the arms of the bracket and formed with openings registering with openings in the arms of said bracket, a rod extending horizontally between the arms of said bracket and having end portions mounted through the registering openings, a tubular shaft rotatable about said rod, a chute, an arm extending from each side edge of one end portion of said chute and rigidly secured to said tubular shaft, each chute-carrying arm having a short end portion extending diagonally of the main portion of the said arm from the tubular shaft, a counterweight for said chute extending between and carried by outer ends of the diagonally extending end portions of the chute-carrying arms and disposed in spaced relation to the opposite side of the shaft from the chute, tongues carried by the bridge of said yoke and

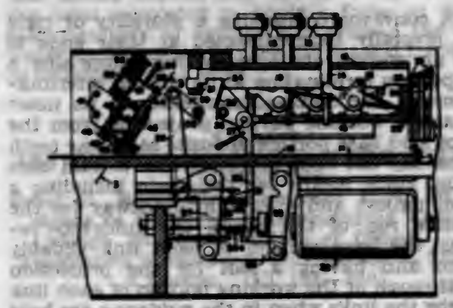
extending upwardly and forwardly therefrom in position for engagement of edges of their upper ends by the arms of the chute to limit rearward movement of the chute and its arms over the tubular shaft when the chute is swung upwardly and rearwardly to a raised position over the shaft, said chute entering the port and being disposed forwardly at a downward incline when swung forwardly and downwardly and rearwardly to a lowered position for use in which its rear portion passes through the ring, and the counterweight being at the same time swung upwardly between the arms of the yoke and forwardly over the shaft past a dead center and thereby disposed forwardly of the tubular shaft in position for urging the chute rearwardly through the port.

2,654,459

MACHINE FOR MARKING STATISTICAL RECORDS BY CONDUCTIVE MARKS

Charles E. Connolly, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application August 21, 1951, Serial No. 242,885
3 Claims. (Cl. 197—1)



1. In a recording machine of the class described, manually operated keys, a card carriage for carrying a card adapted to be marked with ink conductive lines capable of being sensed, a reservoir carrying a supply of conductive ink, a plurality of ink conducting pens within said reservoir and adapted to be selectively projected from said reservoir to make contact with said card prior to its escapement, a plurality of operating means for positioning said pens, means controlled by said keys for effecting the operation of the associated operating means to position the related ink conducting pen, an escapement mechanism for said carriage for enabling the escapement of the card while the selected pen is in contact with the card to make an ink line thereon at a place determined by the associated key, an operating means commonly controlled by said keys, and means controlled by the last named means for effecting the operation of the escapement mechanism after the selected pen has been positioned to contact the card.

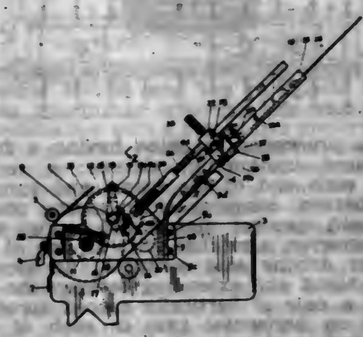
2,654,460

BOTTOM MARGIN CONTROL FOR TYPEWRITERS

Quang Hai Hu and Chin Yi Lee, New York, N. Y.

Application October 27, 1949, Serial No. 123,838
5 Claims. (Cl. 197—141)

1. In combination, a typewriter carriage, a typing roll rotatable upon the carriage, said typing roll being adapted to receive a paper sheet, a bottom margin control device mounted on the carriage and associated with the typing roll to stop the rotation of the same upon the predetermined bottom margin of the paper sheet being reached, said bottom margin control device including a support mounted on one end of the carriage, an adjustable paper supporting arm extending laterally upon the support and vertically adjustable thereupon for supporting the bottom of the paper sheet and a trip finger pivotally carried upon the support and associated



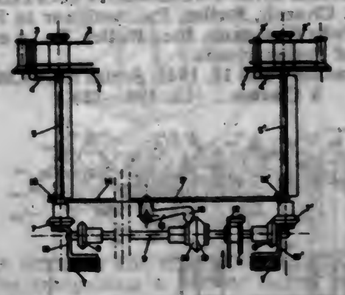
with said paper supporting arm for release upon the paper bottom edge passing from the paper supporting arm, said trip finger serving to put into operation the device to stop rotation of the typing roll, said supporting arm having single, double and triple space indications on which the bottom edge of the paper sheet may be placed to start typing whereby to make certain that the last line will fall exactly at the preset bottom margin.

2,654,461

AUTOMATIC INK-RIBBON REVERSAL MECHANISM FOR TYPEWRITERS AND PRINTING BUSINESS MACHINES

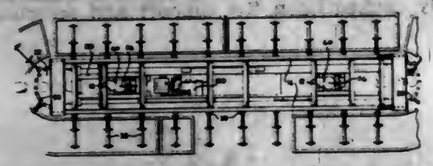
Ilario Bovio, Ivrea, Italy

Application July 7, 1950, Serial No. 172,406
In Italy July 22, 1949
2 Claims. (Cl. 197—165)



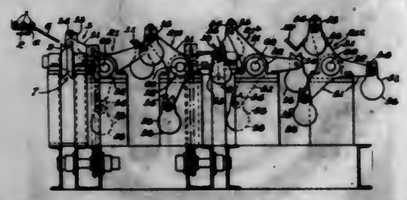
1. In an automatic ink-ribbon reversal mechanism for typewriters and like business machines, the combination of: a pair of pivotally mounted ribbon-actuated levers, a spool-driving shaft endwisely-shiftable into two end-postions, a transverse bar having its ends pivotally connected to said levers and being endwisely-shiftable by said levers into two positions, a spring-actuated pawl pivoted to said bar, and a double cone secured to said shaft and engaged by said pawl, said pawl being urged by its spring to snap, during the shifting of said bar, from position of action upon one face to a position of action upon the opposite face of said double cone, whereby said shaft is shifted into one of its two end-positions.

2,654,462
CONVEYER DRIVE MECHANISM
Guerin Todd, Matawan, N. J., assignor to Hansen-Van Winkle Munning Company, Matawan, N. J., a corporation of New Jersey
Application May 28, 1949, Serial No. 95,994
12 Claims. (Cl. 198—19)



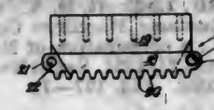
1. In a processing machine having a frame with spaced upstanding columns; a vertical shaft in each end of the frame and sprocket means thereon, conveyor chain means passing around said sprocket means and carrier arms on the conveyor, a ratchet drive on one of said shafts for driving said conveyor; an elevator mounted about and extending between the said columns, a pair of vertically spaced sprockets rotatable on horizontal axes in each of said columns and an elevator chain passing over the spaced sprockets and connected to the elevator, a drive sprocket connected with one each of said pairs of spaced sprockets, and a drive chain passing therearound; a drive shaft and first and second crank arms mounted thereon, a drag link connecting said first arm with the upper reach of said drive chain, a stiffener member connected to said drive chain along with said upper reach thereof, and a quick return mechanism connecting the second arm with said ratchet drive so the conveyor is driven by said second arm during substantially less than half a revolution thereof, said arms being so arranged on said drive shaft that the elevator is in its extreme uppermost position when the conveyor has completed exactly one half of its movement.

2,654,463
FEED TABLE FOR THREADERS, REAMERS, AND OTHER END-TOOLING OPERATIONS
George T. Church, Butler, Pa., assignor to Fretz-Moon Tube Company, Inc., Butler, Pa., a corporation of Pennsylvania
Application June 18, 1949, Serial No. 99,996
3 Claims. (Cl. 198—25)



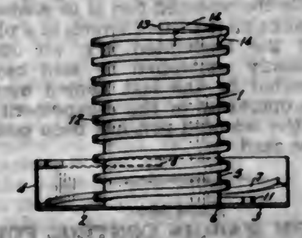
1. Work handling mechanism for positioning an elongate metal blank with one of its ends disposed in a desired vertical plane, said mechanism comprising a stationary blank-supporting table, an elongate conveyor extending parallel to and spaced laterally from said table, means continuously driving said conveyor for moving said blank in an endwise direction on it, a stop disposed near one end of the conveyor in position for halting said moving blank at a desired position on the conveyor, said blank being maintained in position in contact with said stop by said continuous drive of the conveyor; said conveyor and table both being divided into a plurality of blank-supporting members relatively disposed laterally in such positions as to provide laterally aligned open spaces, and a plurality of transfer members rotatably traveling each in a vertical plane through said aligned spaces for picking up a blank positioned on said conveyor and carrying and depositing said blank on said stationary table with the end of the blank lying in the same vertical plane as said blank-contacting surface of said conveyor stop, said transfer members each including a rotatably driven radially extending arm pivotally mounting near its outer end a counterweighted blank carrying member having its upper surface formed to receive said blank.

2,654,464
CONVEYER CHAIN LINK
John I. Carlson, Aurora, Ill., assignor to Carlson Tool & Machine Company
Application March 30, 1949, Serial No. 84,378
4 Claims. (Cl. 198—189)



1. A conveyor comprising a plurality of rigid links pivotally interconnected at their ends to form an endless chain, each link comprising a base portion terminating at its ends in interlinking means and having gear teeth on its inner face and a working portion projecting from the face of said base portion opposite said gear teeth and having flat ends perpendicular to said base portion, guide means for the chain including a pair of pulleys and a straight guideway for the operative run of the chain, the guideway receiving the base portion of each link slidably therein and having a slot for the projection therethrough of the working portion of each link whereby the links when in the guideway are held firmly in upright position with the ends of the working portions in abutting relationship to form a rigid continuous bar, and a gear meshing with the teeth on said links for driving the chain.

2,654,465
FEEDER BOWL
Mario T. Sgriccia, Homer City, Pa., assignor to Syntron Company, Homer City, Pa., a corporation of Delaware
Application December 9, 1950, Serial No. 200,662
4 Claims. (Cl. 198—220)



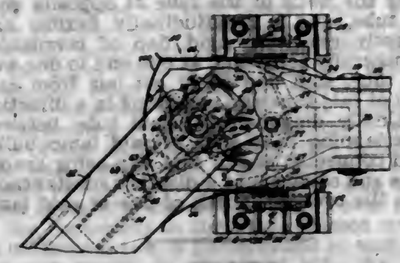
1. A conveyor feeder bowl which comprises, base means adapted to be secured to a feeder motor, and an inner and an outer upstanding annular wall member mounted concentrically in spaced relation to each other on said base means, a helically disposed conveyor track mounted on each annular wall member, the articles traveling down one wall member across the base means and up the other annular wall member, and an inlet and an outlet for said conveyor track.

2,654,466
ELASTOMER SUPPORTED VIBRATORY FEEDER MOTOR
William V. Spurlin, Indiana, Pa., assignor to Syntron Company, Homer City, Pa., a corporation of Delaware
Application December 26, 1950, Serial No. 202,738
9 Claims. (Cl. 198—220)



1. An elastomer vibratory spring supporting means comprising an elastomer spring means having a natural frequency of vibration, members secured to opposite surfaces of the elastomer spring means, and means independent of the mass supported to apply a force on one of said members to deform and preload the elastomer spring means to vary the natural frequency of vibration of the same.

2,654,467
ARTICULATED CONNECTION FOR SHAKER CONVEYERS
Ernst R. Bergmann, Evergreen Park, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application November 7, 1951, Serial No. 255,221
4 Claims. (Cl. 198—220)



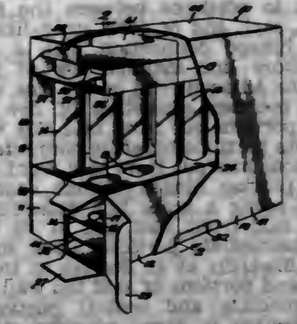
3. In an articulated connection for a shaker conveyor, a base a support on said base for a reciprocable trough frame, a trough pan mounted upon said trough frame and movable therewith, a swivel support mounted on said base for a reciprocable swivel trough frame, a swivel trough pan mounted upon said reciprocable swivel trough frame, said swivel support comprising a T-shaped member having guide means in the arms thereof for the outer sides of said reciprocable swivel trough frame and having guide means at the end of the base thereof for the inner sides of said reciprocable swivel trough frame, said swivel trough pan having its discharge end in position overlying said first named shaker trough for discharge thereon in all positions of swiveling movement of said swivel trough pan, and means affording a driving connection between both of said trough pans comprising a driving rod extending between both of said trough frames and beneath said trough pans.

2,654,468
PACKAGE AND PARTS THEREOF FOR DELICATE ARTICLES
Charles D. Verde, Union City, N. J.
Application September 30, 1949, Serial No. 118,929
1 Claim. (Cl. 206—18)



A package of the class described comprising cooperating bottom and top receptacle members having interfitting telescopic side wall portions, in combination with a pair of like preformed self-sustaining cushion elements each relatively loosely contained within one of said members, each of said elements comprising a plurality of layers of soft, cellulose, fibrous, tissue-like sheets having their central areas unattached to each other and crowned to provide a bulging zone of high compressibility and softness and having their outer margins adhering together with the fibers of the sheets interlocked in a compressed state to provide a relatively narrow and thin perimetric edge flange that is relatively hard and stiff and substantially engages the side wall portions of the respective member, whereby the bulging central zone is compressed by the members to yield about an article and the stiffness of the edge flange resists lateral deformation of the cushion element on the imposition of pressure from the side walls of the members.

2,654,469
SHIPPING AND DISPLAY CARTON
Carl G. Fulmer, Chicago, and Daniel Int-Hout, Park Ridge, Ill., assignors to Lever Brothers Company, a corporation of Maine
Application July 29, 1948, Serial No. 41,208
2 Claims. (Cl. 206—45.11)



1. A shipping and display carton for elongated articles comprising a pair of boxes, one of said boxes having a flap at one end which is received in one end of said other box to hinge said pair of boxes together at one end which are adaptable to be moved in a side by side shipping position and an end to end display position, said boxes having holes in the top surface thereof for receiving the lower portions of the elongated articles with the upper portions thereof protruding upwardly from the boxes, a liner in each box having a surface spaced from the top surface of the box provided with holes for also receiving the lower portions of the elongated articles, a cover of greater depth than the height of the pair of boxes for enclosing the upwardly protruding elongated articles and the pair of boxes when arranged side by side, and a liner in the cover having a surface spaced from the top surface

of the cover provided with holes for receiving the upper portions of the upwardly protruding elongated articles and another surface spaced from the top surface of the cover for engagement by the upper ends of the upwardly protruding elongated articles, the holes in said boxes and in all of said liners being in substantial alignment.

2,654,470
DISPLAY CARTON
Eugene J. Berucki, Chicago, Ill., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application June 26, 1952, Serial No. 295,642
1 Claim. (Cl. 206—45.14)



A packaging and display carton composed of sheet material such as paperboard cut, scored, folded and secured into the form of a tube and including spaced front and rear walls, side walls connecting and spacing the front and rear walls and flap means at each end of said tube adapted when folded and engaged to retain said tube in expanded condition, said front wall and adjacent portions of the side walls being cut and scored to provide a pair of strap-like members extending from a place between the front and rear edges of each side wall across tthe front wall and depressible relative to the plane of the front wall to positions between the front and rear walls, each end of each strap-like member having a hinged connection with a side wall along a score line inclined toward the front wall and the adjacent end of the side wall, each strap-like member consisting of five portions, two outer portions cut from said side walls, two intermediate portions hingedly connected to said outer portions and cut from said front wall, and a central portion hinged at one edge to said front wall along a score line extending transversely of said front wall and at its two ends to said intermediate portions along score lines extending inwardly at 45 degrees to the axis of said tube, and portions of said top wall adjacent said intermediate and central portions being arcuately convex in form, whereby said strap-like members when depressed will underlie said top wall portions and said outer and intermediate portions thereof will slope inwardly and downwardly.

2,654,471
SEALED PACKAGE
Leroy L. Saltsberg, deceased, late of South Orange, N. J., by Herman G. Kopald, New York, N. Y., and Lloyd I. Velckening, Glen Ridge, N. J., executors, assignors to Ivers-Lee Company, Newark, N. J., a corporation of Delaware
Application November 7, 1950, Serial No. 194,481
2 Claims. (Cl. 206—46)

1. A package comprising opposed rectangular layers of package material thermoplastically sealed together in smooth flat zones along only three edge portions and spaced inwardly from the corresponding edges of said layers and forming a bag-like commodity-receiving compartment in which a commodity is deposited, said layers



being also thermoplastically crimp-sealed together in a continuous annular area that is disposed outwardly of the inner boundaries of said smooth flat zones in encircling relation to said compartment.

2,654,472
LAMP-BULB MERCHANDISING PACKAGE
Ray T. White, Rocky River, Ohio, assignor to The Hankins Container Company, Cleveland, Ohio, a corporation of Ohio
Application April 7, 1948, Serial No. 19,507
4 Claims. (Cl. 206—65)



1. A lamp bulb package comprising an open ended tube of substantially square cross-section adapted closely to fit the maximum diameter of each lamp bulb to be packaged therein and made of single faced corrugated paper, a pair of identical lamp bulbs each having a bulbous body portion tapering to a base end of reduced diameter, said bulbs being disposed within said tube with their base ends in overlapping nested relation and with their respective body portions frictionally engaging the walls of the tube at opposite ends of the tube, and a longitudinally flexible and transversely relatively rigid flap of corrugated paper integrally connected at one end to one wall of said tube, said flap being cut out from said one wall of said tube and extending in a direction longitudinally diagonally of said tube between said overlapping base ends of said lamp bulbs, and said connected end of said flap being spaced from one end of said tube a distance substantially equal to the over-all length of one of said lamp bulbs.

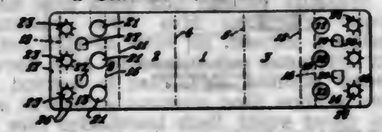
2,654,473
NESTING CONTAINER SHELLS
Lee D. Pierce, Fulton, N. Y.
Application January 10, 1950, Serial No. 137,769
5 Claims. (Cl. 206—65)



1. A unit of nested container shells consisting of an exterior shell and a plurality of deformed container shells including an outward group of shells and an inward group of shells, and each

of said shells having diameter reducing means thereon, the shells of both groups nested one within the other throughout their lengths and within the exterior shell, and all of the shells being of the same diameter when in expanded undeformed cylindrical condition, said deformed container shells being of progressively reduced diameter from said exterior shell to the innermost shell, each of said shells when in deformed nested position having inwardly extending portions the inner ends of which are hingedly connected together, the extending portions of any shell being disposed within the extending portions of the next inwardly adjacent shell, and the inner ends of the extending portions of the outward group of shells being unequally spaced apart and those of the inward group of shells being equally spaced apart.

2,654,474
PACKAGE FOR CAPPED CONTAINERS
William A. Ringler, Wayne, Pa., assignor to The Gardner Board and Carton Co., Middletown, Ohio, a corporation of Ohio
Application February 23, 1950, Serial No. 145,633
2 Claims. (Cl. 206—65)



1. A package consisting of an assembly of capped containers and a paperboard structure for surrounding the said assembly of containers, said paperboard structure comprising an elongated blank scored transversely to provide a substantially centrally disposed bottom panel, side wall panels articulated to the outer edges of said bottom panel and extending upwardly therefrom, said assembly of containers being arranged in rows supported on said bottom panel with the rows of containers extending parallel to the said side wall panels, and top wall panels articulated to the upper edges of said side wall panels and extending inwardly over the said rows of containers, said top wall panels each having a row of perforations therein in alignment with the caps of the containers in the rows adjacent the side wall panels with which the said top wall panels are respectively associated, said perforations being of a size to pass freely over the caps of the containers in the said adjacent rows, and an additional row of perforations in each of said top wall panels in alignment with the caps of containers in a non-adjacent row and of a size requiring them to be forced over the caps of the containers in the said non-adjacent rows, said last mentioned perforations only having radially extending cuts forming locking tabs coacting with the lower edges of said caps to secure said top wall panels in the closed condition, and aligned pairs of tabs in said top wall panels intermediate said rows of perforations forming finger gripping openings for the transportation of said package.

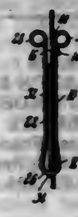
2,654,475
CAN PACKAGE WITH HANDLE
James R. Carpenter, Fort Worth, Tex., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application November 14, 1950, Serial No. 195,581
2 Claims. (Cl. 206—65)

1. A package comprising a carton, a plurality of cans packed in the carton, each of the cans having a circumferentially disposed flange at each end, a pair of openings in the carton adjacent opposite ends of one of the cans packed therein, and a detachable carrying handle comprising a strip of paperboard having its end por-



tions projecting through the openings, and flaps on the end portions of the paperboard strip reversely bent inwardly and upwardly against the strip to engage the inner radius of the flange at each end of the can positioned adjacent the openings.

2,654,476
SALES AND DISPLAY PACKAGE OF DRAPERY HOOKS
Christopher Tate, Malden, Mass., assignor to E. H. Tate Company, Boston, Mass., a corporation of Massachusetts
Application February 16, 1953, Serial No. 336,989
2 Claims. (Cl. 206—79)

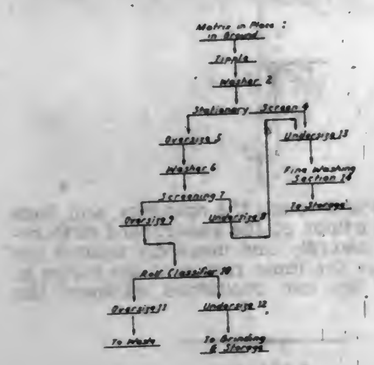


1. A sales and display package comprising a card and a drapery hook removably mounted thereon, said hook being of the kind made of two pieces of wire one of which is bent to form a loop with ends extending parallel and terminating in out-turned extremities, the other wire being permanently secured near its lower end to said loop and extending upward near the parallel extensions to form a hook, the card having a lower slot through which said loop passes so that said parallel extensions are against opposite faces of the card, said card also having above said slot a struck-up tab with an upper slot therein, said tab being bent back from the plane of the card so that the extension which is against the back of the card engages the front face of the tab and the out-turned extremity of said extension extends through the slot in said tab.

2,654,477
CLASSIFICATION OF PHOSPHATE ORE
Ira M. Le Baron, Lakeland, Fla., assignor to International Minerals & Chemical Corporation, a corporation of New York
Application December 31, 1948, Serial No. 68,681
3 Claims. (Cl. 209—2)

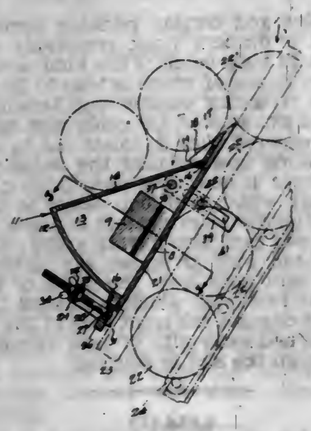
1. In the process of classifying phosphate ore comprising essentially tabular phosphate rock, clay and chert, wherein said ore is preliminarily water-washed, followed by a screening and sizing process in which the clay and chert is partially removed from the oversized material, the improvements comprising subjecting the oversized

material to at least one pair of rollers, said rollers having their opposed surfaces positioned intermediate the mean thickness of the non-tabular material and the tabular shaped phosphatic ma-



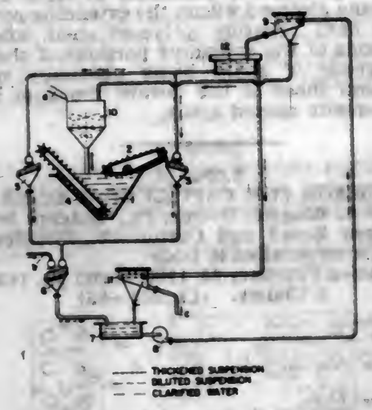
terial and moving upwardly, revolving said rollers, agitating the material between said revolving rollers and collecting therefrom a tabular phosphate material falling between the revolving rollers separate from non-tabular material.

2,654,478
METHOD AND APPARATUS FOR AUTOMATICALLY SEPARATING UNDERWEIGHT CANS FROM NORMAL WEIGHT CANS
Donald E. Stem, San Francisco, Calif.
Application May 31, 1949, Serial No. 96,381
14 Claims. (Cl. 209—121)



1. A magnetic device for eliminating articles under a predetermined weight from a series of articles moved on a conveyor path, comprising a magnetic plate, a magnet on said plate, a non-magnetic top cover for the magnet and plate to guide articles passed around said end of said plate forming a non-magnetic guide inclined away from an end of said plate, and non-magnetic mounting elements to mount said plate and said magnet and guide with the plate exposed in spaced relation to said conveyor path.

2,654,479
SEPARATION OF SUSPENSIONS OF SOLID MATTER IN LIQUIDS
Maximiliaan G. Driessen, deceased, late of Pittsburgh, Pa., by Antje G. Driessen, administrator, Amsterdam, Netherlands, assignor to De Directie van de Staatsmijnen, Washington, D. C., a corporation of the Netherlands
Application August 9, 1951, Serial No. 241,069
In the Netherlands December 28, 1938
5 Claims. (Cl. 209—172)



4. In a process employing a suspension of finely divided solids in a liquid, the steps for producing a suspension having a desired concentration comprising feeding the finely divided solids in said liquid as a dilute suspension under a feed pressure tangentially into one end of a circular elongated vortex space, removing axially as a stream of restricted diameter from the end adjacent the tangential feed a suspension of finely divided solids in liquid having a lower concentration than the infeed suspension, continuously removing axially from the other end of the space as a stream of restricted diameter a concentrated suspension of finely divided solids in liquid having the desired concentration, and regulating the feed pressure and the diameters of the two axial discharge streams in such manner as to maintain constant the desired concentration of said concentrated suspension.

2,654,480
MAGNETIC FLOOR SWEEPER
Donald E. Stem, San Francisco, Calif.
Application August 15, 1949, Serial No. 110,447
14 Claims. (Cl. 209—215)



1. In a magnetic sweeper, a portable frame, means on both sides of said frame rotatable about a common axis for supporting said frame on the surface to be swept, a magnet, a device for supporting the magnet on the frame swingably from an operative position to a substantially inverted position about said common axis, a removable

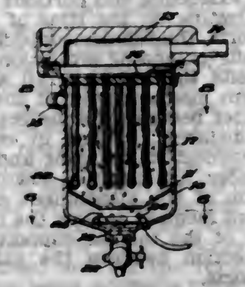
non-magnetic covering on the magnet, and a collector element on the frame adjacent the inverted position of the magnet to collect the objects dropped thereinto when said covering is removed from said magnet in said inverted position.

2,654,481
DREDGE TROMMEL
Edward Olson, Seattle, Wash.
Application January 15, 1951, Serial No. 206,069
4 Claims. (Cl. 209—291)



1. A dredge trommel comprising a cylindrical shell adapted to be revolved about an inclined axis, said shell having a perforate portion and a generally imperforate portion, a supporting ring encompassing said generally imperforate portion, a perforate tube coaxially disposed within said shell and located adjacent to and coextensive with said generally imperforate portion only to leave an interior annular space between said tube and the generally imperforate portion of said shell, annular imperforate rings extending between both ends of said tube and said cylindrical shell, there being openings through the generally imperforate portion of said shell into said space adjacent the lower end of said tube, and radial supports extending between said tube and the generally imperforate portion of said shell.

2,654,482
FILTER FOR REMOVING ICE CRYSTALS FROM HYDROCARBON LIQUIDS AND THE LIKE
John Warren Robinson, Atlantic Beach, Fla., and William S. James, Providence, R. I., assignors to Fram Corporation, a corporation of Rhode Island
Application September 20, 1952, Serial No. 310,621
7 Claims. (Cl. 210—167)



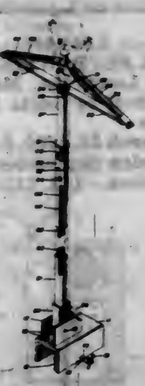
1. In a filter for removing ice crystals from a liquid hydrocarbon, a chamber for receiving the hydrocarbon and ice crystals, inlet and outlet conduits to and from said chamber, a tubular flexible resilient filtrate permeable element in said chamber between said inlet and outlet conduits with its interior in communication with said outlet conduit, said element being treated with an ice repellent material and self supporting as to its cross section until a substantial pressure differential is reached, when collapsing of said cross section occurs.

2,654,483
CENTER CORE SEAL FOR FILTER ELEMENTS
Kirk Akilijian, Cranston, R. I., assignor to Fram Corporation, a corporation of Rhode Island
Application March 29, 1951, Serial No. 218,235
5 Claims. (Cl. 210—169)



1. A filter cartridge comprising a tubular core for the reception of a center tube having perforations at locations spaced inwardly from its end portions, the unperforated end portions being of uniform cylindrical diameter, a plurality of members of fibrous filter material each having a central opening of a size larger than the core assembled in contiguous relation with said openings registering and through which openings said core extends spaced from the walls of said openings, end members of fibrous filtering material having openings the walls of which snugly fit and contact said tubular core and contacting the ends of said plurality of members to close the ends of said space about the core, at least one of said end members being slidable along and contacting said core as the members expand or contract.

2,654,484
FOLDABLE HANGER
Bernhard Win, Forest Hills, and Edmund Lipiner, Brooklyn, N. Y.
Application August 10, 1950, Serial No. 178,608
2 Claims. (Cl. 211—1.3)



1. A collapsible garment hanger comprising a vertical supporting member having a bore therein, a slide movable in the bore, first separable hanger members pivotally connected to the slide, movable into and out of said bore with the slide, said hanger members extending trans-

versely of the longitudinal axis of said bore when in extended position, second hanger members pivotally connected at their ends to the ends of said first hanger members and each being of a length slightly in excess of the length of each of said first hanger members, the other ends of said second hanger members being pivotally connected together, whereby when said first hanger members are extended transversely, said second hanger members are inclined oppositely and downwardly from their pivotal connection toward their pivotal connections with the ends of said first hanger members, and when said first hanger members are in aligned parallel relation for disposal within said bore, said second hanger members are parallel and in aligned relation with said first hanger members, said bore being of a depth sufficient to permit the complete insertion of said first and second hanger members, the pivoted connection between said other ends of said second hanger members comprising a closure cap for said bore when said other hanger members are inserted therein.

2,654,485

HOLDER FOR CONDIMENT JARS

James R. T. Bishop, Chicago, and Donald E. Swanson, Evanston, Ill., assignors to International Minerals & Chemical Corporation, a corperation of New York

Application December 30, 1950, Serial No. 203,675
5 Claims. (Cl. 211—75)



1. A holder adapted to lockingly support an irregularly shaped article with its longitudinal axis in vertical position solely by means of the contacted face, said holder comprising a front face, support means positioning said front face at a rearwardly inclination, and an aperture in said front face which is an orthographic projection of a forwardly and downwardly inclined section through said article.

2,654,486

CURTAIN SUPPORTING DEVICE

Reinhold Johan Lundkvist, Malmo, Sweden, assignor of one-half to Gösta Bernhard Thyrén, Hoboo, Sweden

Application March 23, 1950, Serial No. 151,327
In Sweden September 5, 1946
2 Claims. (Cl. 211—103)



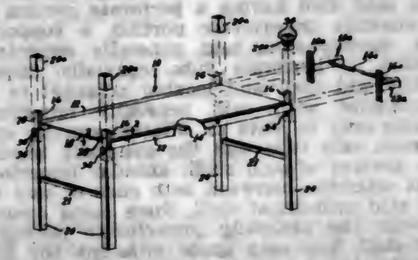
1. In a curtain supporting device the combination of a bar having a longitudinal compartment therein, means for attaching said bar to a vertical surface in horizontal position, a rod rotatably mounted in said compartment, a self-winding mechanism and pawl means coupled to said rod and bar, cord means wound upon each end of said rod and depending therefrom, a curtain rail secured to said cord means below the bar and parallel thereto, a plurality of roller runners carried on said rail and serving for attachment of a pair of curtains, pulley means at each end of the rail, and an endless cord carried on said pulleys and connected at intervals to the roller runners for movement of said runners along the rail to close and open the curtains.

2,654,487

STORAGE RACK

Richard K. Degener, Grosse Pointe Woods, Mich., assignor to American Metal Products Company, Detroit, Mich., a corporation of Michigan

Application August 22, 1950, Serial No. 180,727
3 Claims. (Cl. 211—148)



3. A storage rack for storing merchandise in a position for ready access comprising a bed unit including a pair of spaced, parallel metal rails attached together, said metal rails each having a top and side sections, the end portions of the sides of the metal rails extending beyond the top of the rails, an elongated sheet metal attachment member secured to the end of each rail between the extending end portions of the sides of the rail and at right angles to the rail, each attachment member having a portion which extends below the rail to which it is attached, a transversely-closed, open-ended, upright tubular support at each end of each rail receiving a downwardly-extending portion of the attachment member, the extending end portions of the sides of the rails resting on the rims of the upright tubular supports, the tubular supports each having an inwardly-extending projection on the wall thereof opposite the adjacent rail and opposite the attachment member received therein, and a holding member between the projection and the attachment member received in each tubular support, the projection engaging and urging the holding member against the downwardly-projecting portion of the attachment member and the attachment member against the inside of the opposite wall of the tubular support to provide a rigid connection between the rails and the tubular supports.

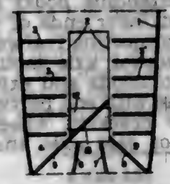
2,654,488

HANDLING OF FREIGHT ABOARD SHIPS

Henri Kummerman, Neuilly-sur-Seine, France

Application November 1, 1949, Serial No. 124,856
In France October 21, 1949
3 Claims. (Cl. 214—15)

1. In combination with a ship having a hold provided with a hatch opening, a plurality of tracks mounted on the inner side of the ceiling of the hold for carrying cargo handling means throughout the hold, the tracks being interrupted by the hatch opening, a hatch cover section slidably disposed over the hatch opening, a track



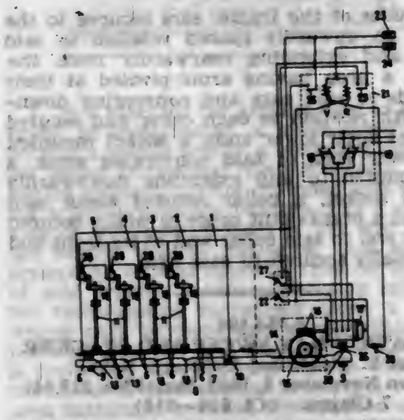
mounted on the underside of the hatch cover section to bridge the gap across the hatch opening between the tracks and means mounting said track for movement about a vertical axis.

2,654,489

STORAGE ARRANGEMENT

Hans Ingold, Lucerne, Switzerland

Application March 23, 1948, Serial No. 16,588
In Switzerland June 13, 1947
10 Claims. (Cl. 214—16)



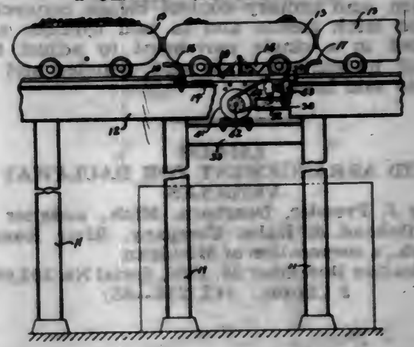
1. A device for storing documents, goods and like articles, comprising a plurality of container units for storing said articles, said container units being movable in parallel relation to each other, a power driven reversible electric motor, a member actuated by said motor and movable in a direction transverse to said container units, said member being connected with the first of said container units and forming a rod having a cam thereon, a forward circuit and a reverse circuit, respectively, for the forward and reverse movement of said motor, first limit switch and second limit switch, respectively, positioned in the path of and operable by said cam, said first limit switch being in said circuit for the forward movement of said motor, said second limit switch being in said circuit for the reverse movement of said motor, both limit switches for the forward movement and for the reverse movement of said motor being normally closed, a first push button in said forward circuit and in series with said first limit switch, a first main contact switch in said forward circuit and a self holding contact switch therefor in parallel with said first push button and said first limit switch, and a second push button in said reverse circuit in series with said second limit switch, respective coupling means on the remainder of said containers and each manually operable to connect a respective container of said remainder of said containers with said rod, contact switches incorporated in said coupling members in the reverse circuit and in series with said second push button and said second limit switch, and a second main contact switch in said reverse circuit and a second self holding contact switch therefor, said second push button being in parallel with said second self holding contact.

2,654,490

RAILWAY CAR SHAKER

Paul E. Glass, Gorgas, Ala., assignor of one-fourth to Milton H. Flax, one-fourth to Harry M. Johnstone, and one-fourth to James W. Shealy

Application May 27, 1950, Serial No. 164,671
2 Claims. (Cl. 214—84.2)



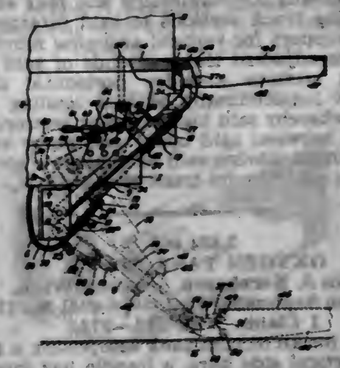
1. In a car shaker for bottom dump railway cars, a railway track including a rail section over which the cars pass, said rail section being mounted for movement about a pivotal axis at one end thereof, a roller support for the pivotally mounted end of the rail section, stationary guide means forming a part of the pivotal mounting, the rail section having a limited motion of translation longitudinally of the trackway in the stationary guide means, a motor driven rotary shaft extending transversely of the other end of the section, an eccentric on the shaft, and a bearing member on the eccentric supporting the other end of the section.

2,654,491

VEHICLE LIFT GATE

Glenn A. Duis and Glenn S. Park, Streator, Ill., assignors to Anthony Company, Streator, Ill., a corporation of Illinois

Application October 4, 1951, Serial No. 249,666
9 Claims. (Cl. 214—77)



1. In combination in a lift gate, a gate member, a base member adapted to be mounted up-

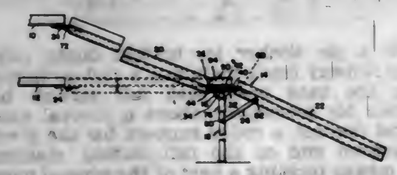
on a support, a plurality of supporting members movably connected to said base member and to said gate member, one member being of fixed length, another member being of variable length, a piston and cylinder assembly connected with said gate to raise and lower said gate, means for furnishing pressure fluid to said cylinder, valve means for controlling the direction of fluid flow to said cylinder, said piston and cylinder assembly being effective to raise and lower said gate, means for latching said gate in raised position, said piston and cylinder assembly being effective when said gate assembly is latched in raised position to extend the member of variable length to increase its length and thereby to move said gate to closing position, and unitary control means connected to said latch means and to said cylinder and adapted in a single movement to adjust the flow of pressure fluid to said cylinder and to operate said latch.

2,654,492

SKID ARRANGEMENT FOR HAULAWAY VEHICLES

Philip J. Premler, Dearborn, Mich., assignor to Whitehead & Kales Company, River Rouge, Mich., a corporation of Michigan

Application December 28, 1950, Serial No. 203,085
9 Claims. (Cl. 214—85)



1. In combination, an automobile carrying vehicle having upper and lower tracks the rear ends of which are vertically spaced and include upwardly facing support and coupling portions, a skid comprising an intermediate elevated support, ground engaging legs on said support holding it at a fixed distance from the ground, ground track sections connected at one end to said support and resting on the ground at the other end, pivot means connecting said support and ground track sections and effective with said legs to stabilize said support against vertical or horizontal movement, loading track sections having at their forward ends coupling members selectively supported upon the support and coupling portions at the rear ends of said upper and lower tracks, and coupling means for connecting the rear ends of said loading track sections to said intermediate elevated support for vertical swinging movement about axes adjacent the rear ends of said loading track sections and for horizontal sliding movement longitudinally of said loading track sections, whereby said loading track sections may be moved between said upper and lower vehicle tracks without moving said intermediate elevated support or said ground track sections.

2,654,493

OXYGEN TANK TRUCK

Irwin A. Kernkamp, Spokane, Wash.

Application September 22, 1950, Serial No. 186,180
1 Claim. (Cl. 214—374)

A truck for an oxygen tank comprising a frame having vertical side bars, a handle bar mounted across upper ends thereof, a tank receiving saddle secured to lower ends of the side bars, a clamp carried by said side bars and extending between the side bars in position adapting it to be secured about an upper portion of the tank, brackets having laterally extending hooks at their front ends secured about lower ends of said side bars with the brackets projecting rearwardly from the side bars, a horizontal axle mounted through rear ends of said brackets and extending transversely of the frame with end portions projecting laterally from the brackets, wheels carried by the end portions of said axle and disposed at



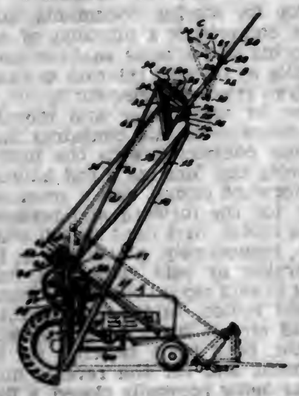
opposite sides of the frame, ears secured to the side bars in upwardly spaced relation to said brackets and extending rearwardly from the side bars, a prop having arms pivoted at their upper ends to said ears and converging downwardly with relation to each other and secured together at their lower ends, a socket mounted on the lower ends of said converging arms, a castor mounted in and extending downwardly from said socket, a collar secured about said socket, and a break-joint brace pivotally secured at its rear end to said collar and at its front end being pivotally secured to said axle.

2,654,494

COMBINATION HAY SWEEP AND STACKER

John E. Stratman, Holdrege, Nebr.

Application November 6, 1952, Serial No. 319,041
7 Claims. (Cl. 214—510)



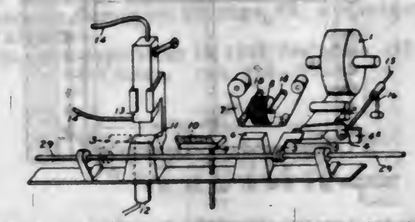
1. A hay sweep and stacker attachment adapted to be connected to, and operated from, a power vehicle, comprising, a pair of upright standards, a power piston assembly pivotally connected adjacent the lower end of each standard, a boom pivotally connected adjacent the upper ends of said standards, the forward ends of the power piston assemblies being pivotally connected to the front end portions of the boom, a sweep pivotally connected to the front end of the boom, an upwardly extending arm pivotally connected to one of said standards, power means on said last mentioned one of the standards connected for swinging said arm including a pressure fluid cylinder having a piston rod and an extension rod pivotally connected to the piston rod and to a link, said extension rod being attached to said arm, and said link being pivotally connected to said one standard, and a rod operable upon being moved to effect the discharge of material from the sweep, said rod being pivotally connected to the arm to be moved thereby.

2,654,495

MACHINE FOR MARKING AND AFFIXING TABS TO ARTICLES

Hans Meyer, Surrey, England

Application February 27, 1950, Serial No. 146,451
In Great Britain March 4, 1948
2 Claims. (Cl. 216—2)



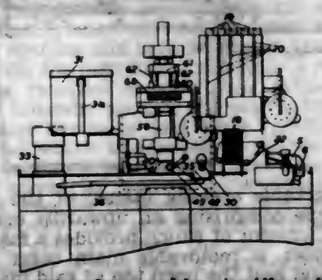
1. In a machine for affixing tabs to textile articles; in combination, a lower platen for supporting a textile article, a vertically movable upper platen in opposed relation thereto, a gripper having gripping jaws of extended area for engaging a tab in gripping relation over a substantial area of the opposite sides of one end thereof, a tab supply station, means at said station for presenting tabs in edgewise relation to the jaws of said gripper, means supporting said gripper for reciprocating movement along a predetermined path between said supply station and a position adjacent said platens in which said tab is positioned between said platens with the portion held by said gripper projecting outside the area subtended between the opposed surfaces of said platens, said gripper being releasable from said tab for return to said tab supply station after the movable platen is brought into engagement with the non-gripped portion of said tab.

2,654,496

MACHINE FOR AFFIXING TABS TO ARTICLES

Hans Meyer, Richmond Hill, Richmond, and Ronald W. Shepherd, Stoke Bishop, Bristol, England; said Shepherd assignor to said Meyer

Application February 5, 1951, Serial No. 209,442
In Great Britain February 7, 1950
14 Claims. (Cl. 216—2)



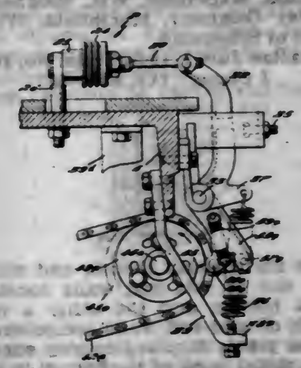
1. A machine for marking textile articles comprising a longitudinally movable gripper for carrying printed tabs successively beneath a vertically movable heated platen, said gripper gripping one end of a tab, a deflectable spring arm partially under said platen to support the other end of said tab, means associated with the platen for picking up said tab from said gripper and said spring arm and means for substantially simultaneously releasing the tab from the gripper.

2,654,497

BELLOWS MECHANISM FOR PNEUMATIC TRANSFER PADS FOR LABELING MACHINES

Sidney T. Carter, Worcester, Mass., assignor to Geo. J. Meyer Manufacturing Co., Cudahy, Wis., a corporation of Wisconsin

Application February 24, 1951, Serial No. 212,563
14 Claims. (Cl. 216—54)



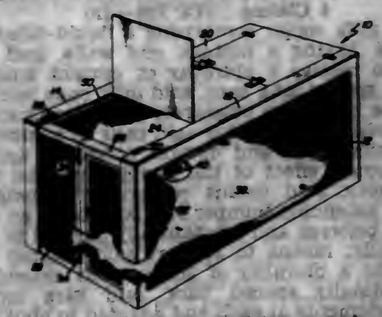
1. In combination, in a labeling machine of the kind which has an adhesive type picker comprising two laterally separable elements, a pneumatic transfer pad, a driven shaft, and means actuable thereby for moving the pad and picker through an operative cycle during which they dwell in substantial contact at a transfer point while the transfer pad receives a label from the picker, and having means for separating the picker elements after transfer and for moving the pad between said separated picker elements with the label adhering to the pad by suction, suction-creating means moving in accurately timed relation to said driven shaft and operative suddenly to create maximum suction at the transfer pad substantially at the instant at which the pad arrives at the transfer position and before the picker elements separate.

2,654,498

COLLAPSIBLE BOX FOR CARRYING DOGS

Arthur N. Jennison, Keene, N. H.

Application April 14, 1950, Serial No. 156,027
1 Claim. (Cl. 217—14)



A collapsible box comprising a pair of opposite side panel members, pairs of end panel mem-

bers hingedly attached in the pairs and hingedly attached to the side panel members for folding in between said side panel members to collapse the box, and a top comprising a central section having end and side edges, said top further comprising end sections hinged to opposite end edges of the central section and folding on one another against the top side of the central section, said central section being hinged at one side edge to one side panel and folding downwardly in between said side panel members with said end sections folded against said central section.

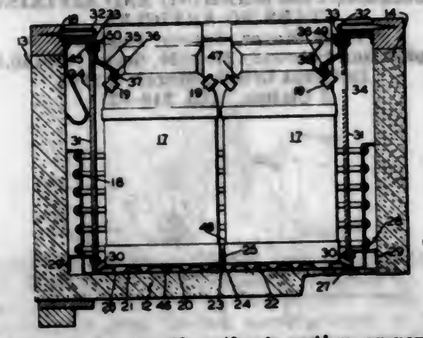
2,654,499
CIRCULAR WOOD BOX
Paul L. Blum, Marshfield, Wis., assignor to Blum Bros. Box Company, Marshfield, Wis., a corporation of Wisconsin
Application July 1, 1949, Serial No. 102,576
1 Claim. (Cl. 217—66)



In a box for circular cheeses end walls and a side wall, one of said end walls constituting a permanent bottom and the other a removable cover, each of said end walls comprising several flat wooden pieces disposed in side edge-to-edge relation, a metal band of U-channel in cross section encircled about the outer edges of said pieces with the said edges snugly engaged in the channel thereof, spurs struck out from the web of said band and projecting laterally outward in the plane of the upper side flange thereof, said side wall comprising two sheets of wooden veneer, one overlying the other, encircled about the bottom wall and having their side edge portions overlapped, fastenings engaged through the overlapping edge portions of said sheets, said spurs being passed through the bottom edge portions of said sheets and overturned to secure the sheets and the bottom wall together, and a band of the veneer encircled about the bottom end portion of the box and having a width to overlie the overturned ends of said spurs.

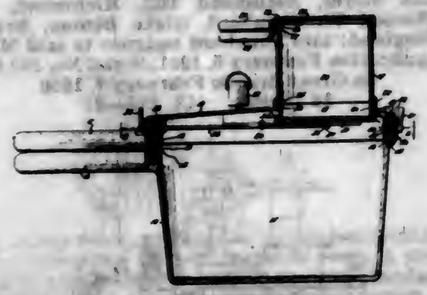
2,654,500
CAN SUBMERGING DEVICE FOR MILK COOLERS
William H. Harstick, Oak Park, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application October 15, 1949, Serial No. 121,595
4 Claims. (Cl. 220—15)

1. A milk cooler comprising a liquid-filled receptacle having a bottom, end walls, and side walls to receive a plurality of upright longitudinally spaced milk cans, said milk cans being of the type having an outwardly projecting handle; and means for retaining said cans in a substantially submerged and upright condition against the buoyant effect of the liquid when the cans are empty, said means comprising a longitudinally extending bumper rail positioned on said bottom between and substantially parallel to said side walls; means to support said bumper rail including a plurality of transversely extending, longitudinally spaced bars, said bars having spacer elements at each end adapted to abut said side walls; a plurality of upright members having their lower ends connected to said spacer elements; means connecting the upper ends of said upright members to said side walls; supporting brackets connected to said upright members projecting downwardly and inwardly into the receptacle; a plurality of longitudinally extending rods connected to said brackets and disposed within the upper part of the receptacle, said rods being substantially parallel and having one of their ends terminating closely adjacent to an end wall of said receptacle, the other ends of said rods being longitudinally spaced from the opposite end wall a distance sufficient to provide



an access area to allow the insertion or removal of said milk cans between said other ends of the rods and said opposite end wall to or from said receptacle beneath said rods, said milk cans being positionable within said receptacle in substantially parallel longitudinal lines with a lower portion of each can in abutment at one side with said bumper rail and the handle thereof extending from the opposite side beneath and in abutment with the adjacent rod and means to close said access area and maintain the milk cans contiguous to said area submerged within said receptacle comprising a member adapted to extend from each of said rods over and in abutment with a handle of an adjacent can closely adjacent to said opposite end wall.

2,654,501
PRESSURE COOKER
Peter Antonioli, Jr., and Andrew Johnson, Butte, Mont.
Application March 31, 1950, Serial No. 153,578
4 Claims. (Cl. 220—20.5)



1. A portable cooking utensil of the pressure cooker type comprising an upwardly open main body, the interior of which provides a main cooking chamber, a removable main cover adapted to close and seal the open top of said main body, an upwardly open auxiliary body connected with and opening downwardly through an opening in said main cover, the interior of said auxiliary body providing an induction chamber, a second

removable cover to close and seal the open top of said auxiliary body, a movable gate plate carried by said main cover to cooperate with said opening therethrough for opening and closing communication between the main body interior and the auxiliary body interior, means also carried by said main cover to extend from said gate plate exteriorly of said main cover and manipulatable to optionally move said gate plate to closed or open position, means to provide a steam flow communication between the interiors of said main and auxiliary bodies, and a valve means cooperative with said steam flow communication means and manipulatable to open and close the latter.

2,654,502
COVER FOR BAKE PANS
Jack Kellman, Chicago, Ill., assignor to Ekco Products Company, Chicago, Ill., a corporation of Illinois
Application September 12, 1952, Serial No. 309,185
5 Claims. (Cl. 220—24)



2. A baking pan cover comprising a marginal metal frame, a separate top member consisting of a single sheet of metal having its marginal portions folded inwardly about said frame member with the edge of said marginal portions terminating interiorly of the frame, said latter edge of the marginal portions being overlapped and engaged by an integral extension of said frame member rebent upon itself.

2,654,503
SPECTACLE CASE
Kendrick T. Parnell, Manhasset, N. Y.
Application December 18, 1951, Serial No. 262,263
3 Claims. (Cl. 220—35)



2. A spectacle case comprising a casing having a base portion adapted to receive spectacles thereon and a cover portion integral with said base portion in longitudinal relation thereto which partially overlies said base portion in spaced relation thereto for inserting thereunder a portion of spectacles received on said base portion, a lid which is hingedly secured by longitudinally disposed hinge means to said cover portion of said casing and which is adapted to overlie the balance of said base portion and complete the coverage of spectacles received on said base portion, a tongue member integral with said lid extending rearwardly from said lid and from said hinge means at approximately the mid point of the overall length of said case, a resilient spring strip extending rearwardly from said tongue member having aperture means adjacent one end thereof penetrated by said tongue member and secured adjacent the other end thereof to said casing so as to normally urge said aperture end thereof and said tongue member resiliently upwardly for normally maintaining said lid in closed position, and a button member secured to said spring strip and extending through an aperture in said cover portion of the casing so as to normally protrude substantially therefrom for permitting depression thereof so as to depress said spring strip and said tongue member to open said lid, said tongue member being provided with an offset portion adapted to coact with end of said spring strip adjacent said aperture therein for limiting the extent of the depression of said spring strip and the extent of the opening of said lid.

2,654,504
DEVICE FOR PRESERVING PAINTBRUSHES
Herbert B. Hyams, St. Paul, Minn., assignor to Atlas Manufacturing Company, St. Paul, Minn., a corporation of Minnesota
Application February 20, 1950, Serial No. 145,230
2 Claims. (Cl. 220—85)



1. The combination with a paint can having an open top provided with an inwardly extending annular portion defining the mouth of the can and having means for receiving a suitable closure, of a brush-holding attachment for the open top of the paint can comprising an annulus adapted to be seated upon the inwardly extending annular portion of the paint can and having a depending portion frictionally engaged therewith to operatively secure the attachment to the paint can, a brush holder element removably supported on said annulus and traversing the mouth of the paint can whereby a paint brush engaged with said element may depend onto the paint can with its bristles submerged in a preservative liquid contained therein, and a closure hinged to said annulus for enclosing the open top of the paint can and the paint brush depending from said element.

2,654,505
AUTOMATIC VENDING MACHINE
William F. Fuhrman, Los Angeles, Calif., assignor of one-half to Elmer O. Gerth, Richmond, Ind.
Original application September 5, 1947, Serial No. 772,361, now Patent No. 2,566,127, dated August 28, 1951. Divided and this application August 16, 1950, Serial No. 179,823
5 Claims. (Cl. 222—3)

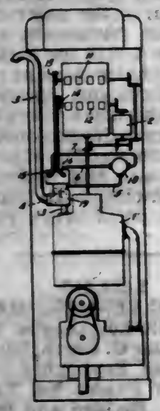
1. In a device of the character described, a supply of free flowing liquid and means for withdrawing a predetermined amount thereof and delivering it for use, comprising a reciprocating piston pump having a displacement substantially equal to said predetermined amount and having intake and delivery ports provided with check valves, a motor for actuating said pump and having a screw secured to its shaft, said piston being secured to a nut in operative relation with said screw whereby rotation of said motor in a first direction moves said piston to draw liquid from said supply into said pump, coin controlled means for starting said motor, a reversing switch for said motor positioned to be actuated by said nut at the end of the intake stroke of said piston

to cause said motor to reverse its direction whereby said pump delivers said predetermined amount



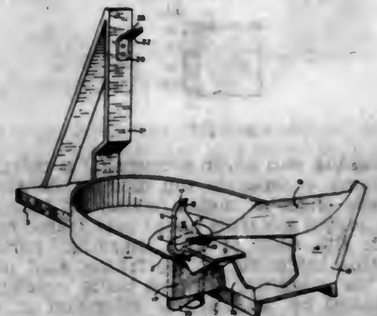
of liquid, and a normally closed switch positioned to be opened by said nut at the end of the delivery stroke to stop said motor.

2,654,506
FLUID MEASURING AND DISPENSING APPARATUS
Raymond Lucien Rambert, Geneese, France, assignor to S. A. T. A. M. Societe Anonyme pour Tous Appareillages Mecaniques, La Courneuve, Seine, France, a society of France
Application April 12, 1945, Serial No. 587,978
In France September 13, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires September 13, 1963
2 Claims. (Cl. 222—19)



1. A measuring and dispensing apparatus for fluids comprising essentially a main dispensing conduit, a measuring element, a main valve capable of closing said conduit, two by-passes by passing the main valve, a first and a second auxiliary valves capable of closing respectively the said first and second by-passes, two cam indicating mechanisms operated by said measuring element, means operated by said two mechanisms to close respectively the first and second auxiliary valves, means controlled by the operator for closing either the first by-pass or the second by-pass, a piston of a larger cross section than that of the main valve integral with said main valve, one of the faces of said piston being subjected to the action of the pressure prevailing above the main valve, which action tends to open the latter while the other face is subjected to the action of the pressure at a point, of the said by-passes located upon the above said first and second auxiliary valves, the action of the pressure upon this latter face tending to close the main valve and bring about the closure of the latter when the flow from the by-passes falls below a maximum value and the opening of said valve when the flow from said by-passes is above such maximum value and a closing valve placed upon the main dispensing conduit below the main valve controlled by the operator and capable of closing partially said main conduit and to reduce in such position the flow in the first and second by-passes below the above said maximum value which will bring about the closing of the main valve.

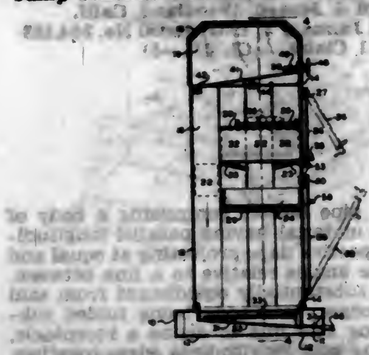
2,654,507
CAN OPENER AND RECEPTACLE
Richard L. Tuve, Silver Spring, and Edwin J. Jablonski, Seat Pleasant, Md.
Application March 12, 1951, Serial No. 215,177
13 Claims. (Cl. 222—86)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A device for opening a sealed can and retaining it in an upright position for drainage and delivery of its liquid content which comprises in combination, a receptacle mounted on a base and having an opening therein for outflow of liquid therefrom, means rigidly mounted in said receptacle for cutting an opening in an end wall of a sealed can to permit drainage of the liquid content of said can, said means including a knife in an upright position and a fulcrum adapted to engage a rim of the sealed can for turning of an end wall thereof downwardly over said knife, said knife being adapted to puncture said end wall of the can, cut a tongue portion therefrom in a direction toward the fulcrum-engaged rim of the can, fold said tongue portion inwardly of the can and enter the can as the latter is moved downwardly thereover, and means including a knife rigidly supported by said base in spaced relation to and in the rear of said first named means and adapted to cut a vent opening in the upper portion of the side wall of the can as the aforementioned end wall of the can is forced downwardly over said first mentioned knife, said second named means also being adapted to hold said can in an upright position for drainage of the liquid content therefrom.

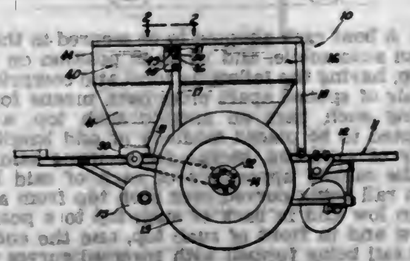
2,654,508
OIL CAN DISPLAY RACK AND CABINET
Fred D. Wright, Nashville, Tenn., assignor to Fred D. Wright Co., Inc., Nashville, Tenn., a corporation of Tennessee
Application April 16, 1949, Serial No. 87,969
5 Claims. (Cl. 222—112)

1. In an oil can display cabinet having a plurality of upwardly extending channels for receiving and supporting cans of oil, means for salvaging residual oil in empty cans and for storing said cans comprising a horisontal track way disposed within said cabinet for receiving and supporting said cans in inverted upright position, a drawer type receptacle disposed beneath said track way to receive oil dripping from said cans, a pair of downwardly and inwardly inclined troughs beneath said track way for directing the oil into said receptacle, a perforated tray in said bin adapted to receive cans from said track way, a sump beneath said tray having an inclined bot-



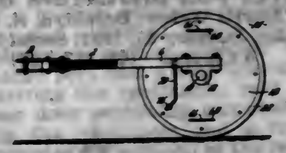
tom for receiving oil dripping from said cans, a drain for said sump, doors pivotally mounted on said cabinet for preventing access to said track way and said bin, channels cooperating with said doors to prevent entry of rain to the interior of said cabinet, latch means for said doors disposed in said upwardly extending channels on each side of said cabinet, removable covers for said upwardly extending channels and key controlled locking means operated by a single handle for locking said covers in closed position thereby preventing removal of said covers or opening of said doors.

2,654,509
HOPPER CONNECTING MEANS FOR DISTRIBUTING MECHANISMS
Elwood L. Faust, Elmhurst, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application September 30, 1948, Serial No. 51,928
6 Claims. (Cl. 222—135)



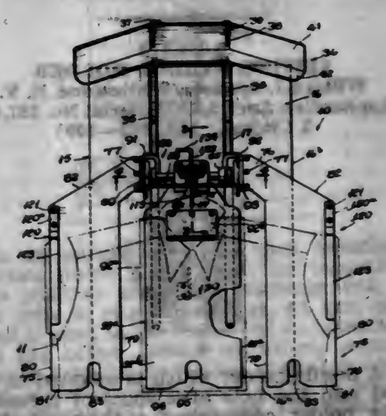
6. The combination of a supporting structure and a receptacle, and quick attachable means for securing the receptacle to the supporting structure, comprising a pair of plates connected at transversely spaced points to said supporting structure, a rod supported on said plates, said rod extending transversely through portions of said receptacle, and a lock member on one end of said rod, said member having an open end slot, and connecting means on said supporting structure engageable with said open end slot for securing said rod in engagement with said receptacle, said rod being movable to disengage said open end slot of said lock member from said connecting means and allow withdrawal of said rod from said receptacle.

2,654,510
CORN PLANTING MACHINE HAVING ROTARY GROUND-ENGAGING SEED RESERVOIRS
Thomas A. Purvis, Tulsa, Okla.
Application July 25, 1949, Serial No. 106,700
1 Claim. (Cl. 222—170)



In a corn planting machine having a frame carrying wheels chambered to form seed reservoirs, and having apertures formed in the rims thereof communicating with said reservoirs, a feed control mechanism for each of said apertures comprising a cover plate carried by said wheel in spaced relation from the inner surface of said rim and having a hole formed therein out of register with said rim aperture, a slide carried for reciprocal movement between said rim and said cover plate and having a hole formed therethrough, resilient means securing said slide in a central position wherein the hole thereof registers with said cover plate hole, a lever operably joined to said slide and extending outwardly of said wheel generally parallel to the axis thereof, and an operating member fixed to said frame within the path of the projection portion of said lever, said operating member being adapted to engage and operate said lever at one point in the rotation of said wheel, whereby as said planting machine travels forwardly, said lever moves said slide to move the slide and rim apertures into registry, and whereby as said planting machine travels rearwardly, said lever moves said slide to move the slide and rim apertures still further out of registry.

2,654,511
MANUAL SHIRT FOLDING DEVICE
Caesar A. Calder, Roseland, N. J.
Application September 24, 1951, Serial No. 247,959
11 Claims. (Cl. 223—37)



1. A shirt folding device, comprising a support, a carriage slidably mounted thereon, a center

panel hinged about its rear end to said carriage, for upward swinging movement, wings hingedly connected to said center panel and being swingable one over the other and both over the back of said center panel, a clamp hinged relative to said center panel adjacent its rear end and movable therewith, and having means to clamp a portion of shirt placed on said center panel and wings, adjacent the collar, to said center panel.

2,654,512
APPARATUS FOR DISPLAYING GARMENTS
Morris Weiser, Brooklyn, N. Y.
Application January 29, 1952, Serial No. 268,855
4 Claims. (Cl. 223—68)



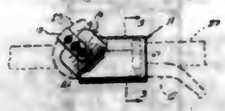
1. A garment display device for attaching to a garment display form comprising a section of thin flexible but stiff material, the dimensions being such that the length of the section is approximately equal to that of the garment skirt being displayed, the top width of the section is shorter than the waist of the said garment, the bottom length is sufficient to form an arc across the front of the said garment and to extend partially across the back, an elastic band and an eye therefor attached to the edge of the top width of the section for attaching the device to the waist of the form, a channel at the bottom of the material, and a bendable rod in the channel, said rod being bendable into varying shapes and capable of retaining the thus formed shape so as to form the garment display device into a shape identical thereto.

2,654,513
SEWING NEEDLE HOLDER
Willard J. Spencer, Whitestone, N. Y.
Application April 9, 1952, Serial No. 281,419
3 Claims. (Cl. 223—109)



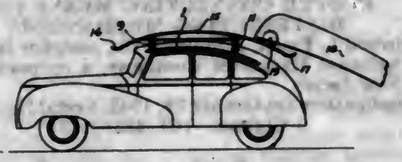
1. A needle holder which is adapted to be inserted into the hole of a spool of thread, said needle holder comprising a thermoplastic tubular housing which is closed at its lower end, a felt cap mounted on the upper end of said tubular housing, a thermoplastic ring encircling said felt cap and securing it to said tubular housing, and at least one laterally projecting prominence formed on said tubular housing to engage the spool in order to frictionally retain said needle holder in said spool against accidental dislodgment of said needle holder from said spool.

2,654,514
PIPE HOLSTER
Clifford S. Jensen, Woodland, Calif.
Application January 2, 1953, Serial No. 264,429
1 Claim. (Cl. 224—5)



A smoking pipe holster comprising a body of flexible sheet material having parallel longitudinal edges, respective flaps projecting at equal and opposite acute angles relative to a line between, parallel, and substantially equidistant from said longitudinal edges, said body being folded substantially along said line to define a receptacle, means securing said longitudinal edges together, a plurality of belt loops secured to one side of said body, a retaining strap secured to the end portion of one of said flaps and projecting in the same direction as said one of the flaps, and interengaging snap fastener elements on said strap and the other flap, said flaps and strap being arranged to engage around the bowl of a pipe having its stem disposed in said receptacle.

2,654,515
BOAT RACK FOR AUTOMOBILES
Joseph J. Svoboda, Niles, Calif.
Application May 26, 1949, Serial No. 95,521
3 Claims. (Cl. 224—42.1)

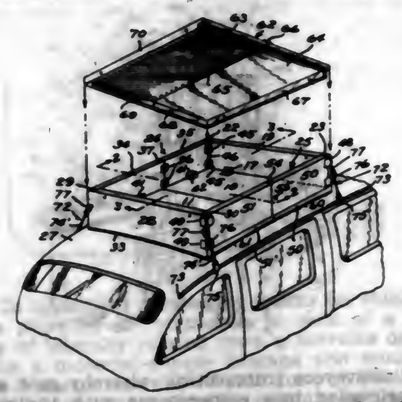


1. A boat rack adapted to be secured to the top of an automobile, and when in position on such a top, having the following form and comprising: a pair of spaced apart cross bars, means for securing such bars on and to such top, a rail adapted to be placed medially of and longitudinally of such top, means for securing said rail to the middle upper side of each of said bars, such rail being curved over such top from a position low and in back of such top to a position below and in front of such top, and the ends of said rail being formed with reversed curves with respect to the rest of said rail.

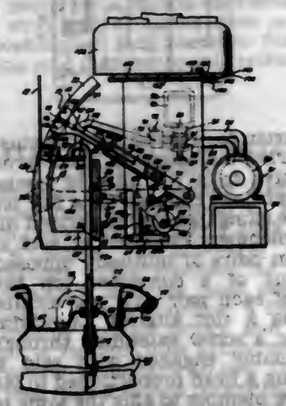
2,654,516
COLLAPSIBLE LUGGAGE CARRIER FOR AUTOMOBILES
Leonard A. Edwards, East Hampton, N. Y.
Application February 8, 1952, Serial No. 270,639
5 Claims. (Cl. 224—42.1)

1. A collapsible closed luggage carrier for automobiles having a solid curved top, comprising a deck composed of a pair of rigid impervious

panels hinged to fold together, rigid impervious side walls hinged to the opposite side edges of said deck panels to fold inwardly against said deck panels, a rigid impervious end wall removably attached to said side walls and to said deck, said end wall extending below said deck and having a bottom edge shaped to conform to and rest on said automobile top, removable blocks extending below said deck opposite said end wall and having bottom edges shaped to conform to said automobile top whereby said container is supported by said shaped bottom edges to provide clearance below the bottom of said deck for the curved automobile top, doors hinged to said side walls to close over said deck and above said blocks, and a cover composed of a rigid, impervi-



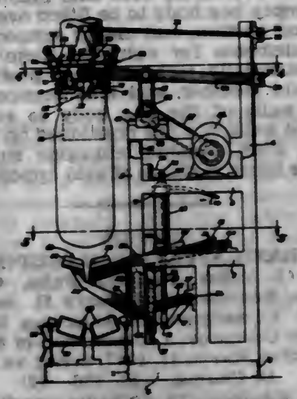
2,654,517
AUTOMATIC SANITARY APPARATUS FOR DISPENSING MEASURED QUANTITIES OF LIQUID
Robert E. Corradini, Madison, N. J., and Leslie S. Lynch, Flushing, and Otterino Benomi, New York, N. Y., and G. Curtis Engel, Ridgewood, N. J.; said Lynch, said Benomi, and said Engel assignors to said Corradini
Application May 3, 1946, Serial No. 667,064
26 Claims. (Cl. 226—46.4)



26. A device for dispensing liquid in measured equal volume quantities in intermittent succession from a container whose liquid head suffers a uniform drop upon dispensing each of said volume quantities comprising means for creating a suction in the container for dispensing said liquid, a first control means operating said suction creating means to provide predetermined effective suctions at intermittent intervals for dispensing said successive volume quantities of liquid, and a second control means responsive to each dispensing operation and coacting with said first control means for progressively increasing said effective suction by uniform increments each corresponding to a drop in liquid head in the container to maintain successive volume quantities of liquid dispensed uniformly equal.

30. A device for dispensing liquids from a storage container into a drinking receptacle; means for creating a gaseous suction condition in the container causing a flow of liquid into the receptacle including a suction chamber having a liquid discharge port and a seat therein for removably receiving the receptacle; said chamber having a rear door swingably mounted to open for receiving the receptacle and a front door swingably mounted for removal of the receptacle; the bottom, side and top walls of said chamber being relatively stationary; a receptacle dispensing means for feeding receptacles through said rear door when open into the chamber; control means for permitting operation of said suction creating means only when a receptacle is seated on said seat; power operated means for swinging said rear door to open position, for actuating said dispensing means to seat a receptacle in said chamber, for closing said rear door, for creating said gaseous suction condition to fill the receptacle, and for opening the front door for removal of the receptacle, all in timed relation to each other.

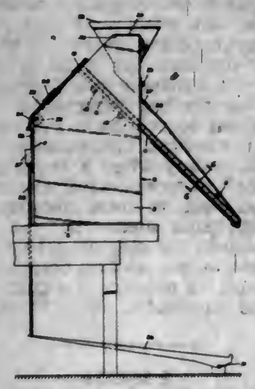
2,654,518
APPARATUS FOR FILLING AND COMPACTING MATERIAL IN BAGS AND HAVING A RETRACTABLE BAG BOTTOM ABUTMENT MEMBER
Harold V. Kindseth, Minneapolis, Minn., assignor to Bemis Bro. Bag Company, Minneapolis, Minn., a corporation of Missouri
Application April 9, 1949, Serial No. 86,552
3 Claims. (Cl. 226—55)



1. In an apparatus of the class described, a supporting frame, a bag holder for supporting a bag in position under the discharge end of a packer tube to receive a charge, an arm having one end pivoted to the frame and its opposite end to the bag holder, means operatively connected with said arm for imparting pivotal movement thereto in rapid succession thereby to impart a shaking movement to the bag suspended from the bag holder, a bag bottom engaging member, a guide link having one end pivoted to the machine

frame and its opposite end to the upper portion of said member, a relatively shorter link having one end pivoted to the machine frame and its opposite end to said member, said shorter link having a sliding connection with said member, and means for actuating said shorter link to move the member into or out of bag engaging position.

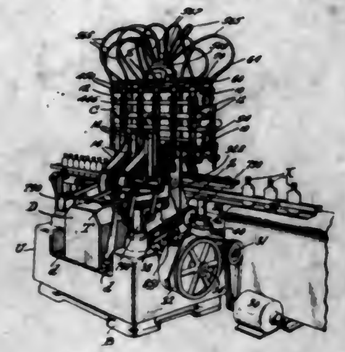
2,654,519
BAG OPENER
Harold V. Kindseth, Minneapolis, Minn., assignor to Bemis Bro. Bag Company, Minneapolis, Minn., a corporation of Missouri
Application May 8, 1948, Serial No. 25,875
4 Claims. (Cl. 226—59)



1. In an apparatus of the class described, a supporting frame, an elongated flat member secured at one end in said frame and having its opposite end portion projecting outwardly therefrom, wing elements hinged to the opposed side edges of the projecting end portion of said member substantially the length thereof, and normally folded inwardly over said member to permit an empty bag body to be fitted over said projecting end portion, and means connected to said pivoted elements for swinging them outwardly into substantially right angular positions relative to said member, and into engagement with opposed walls of the bag body to expand and square the walls of a bag positioned on said member, said wing elements engaging substantially the entire inner surfaces of said opposed walls.

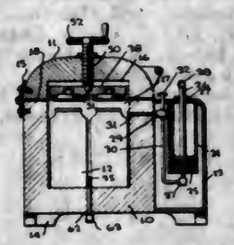
2,654,520
BAND-APPLYING MACHINE
Howard G. Allen, Niagara Falls, George E. Gampp, Kenmore, and Harry D. Smith, Buffalo, N. Y., assignors to American Machine & Foundry Company, a corporation of New Jersey
Application March 31, 1947, Serial No. 738,470
13 Claims. (Cl. 226—80)

1. In a machine for applying banding sleeves to containers, the combination of a first, a second and a third conveyor, means for driving said first conveyor at a predetermined linear speed, means for driving said second conveyor at a linear speed greater than that of said first conveyor, means for supplying to said second conveyor a series of containers in definitely spaced relation, a plurality of sleeve-applying units carried by said first conveyor adapted individually to apply banding sleeves to the containers carried by said second conveyor, means for driving said third conveyor at a linear speed equal to the linear speed of said sleeve-applying units, and a plurality of arms spaced around said third conveyor, the space therebetween being equal to the spacing between adjacent sleeve-applying units on said first conveyor, portions of the paths of said second and



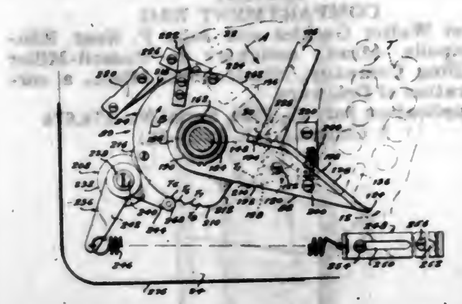
third conveyors intersecting whereby said arms are projected into engagement with individual containers carried by said second conveyor, said second and third conveyors together being effective to move said containers at a linear speed equal to that of said sleeve-applying units and individually in accurate alignment therewith for the reception of banding sleeves from said units.

2,654,521
CANNING APPARATUS WITH CAN TOP GRIPPING JAWS
Raymond T. Zaccard, Chicago, Ill.
Application February 16, 1951, Serial No. 211,230
4 Claims. (Cl. 226—82)



3. A carrier for releasably engaging container tops of varied diameters in predetermined positions relative to a plurality of containers disposed therebelow, comprising a flat plate having at least one elongated groove formed in its underside, jaw members mounted in said groove and arranged in pairs of mutually opposed members for gripping of a container top between the members of each pair, one jaw member of each pair having a slot aligned longitudinally with said groove, a screw extending through said slot and threadably engaged with said plate, said screw having a head proportioned to bind against said one jaw member to affix the same to the plate in selected positions of adjustment longitudinally of the groove, spring means resiliently urging the other jaw member of each pair toward the associated fixed jaw member, and plate carried means limiting movement of each movable jaw member toward and away from the fixed jaw member associated therewith.

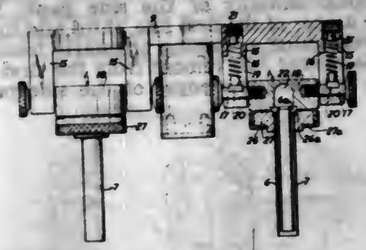
2,654,522
FRACTION COLLECTION APPARATUS
George Gorham, New York, N. Y., assignor to Technicon Chromatography Corporation, New York, N. Y., a corporation of New York
Application February 17, 1951, Serial No. 211,565
31 Claims. (Cl. 226—96)



1. In apparatus comprising means for supporting a plurality of receptacles in each of a plurality of laterally related rows, a movable device having a material-supply passage and mounted for movement laterally of said rows to positions for supplying material to the receptacles therein, respectively, and means for moving said receptacle supporting means to present the receptacles in each row successively to said movable device; means for positively moving said movable device to said positions, respectively, comprising a member mounted for turning movement and operatively connected to said device, means relatively movable in relation to said member and intermittently engageable therewith for turning the latter step-wise in one direction, and means operable in timed relation to said movement of the receptacle support for actuating said last mentioned means for moving said movable device to said positions thereof, respectively, and means operable after a predetermined number of step-movements of said member by said intermittently engageable means for moving said member to a retracted position in which said device is disposed clear of the receptacles on said support whereby to terminate the supply of material to the receptacles, said member having a part provided with a recess having a camming edge, and said retracting means including a spring-operated follower engageable with said camming edge in a predetermined position of said member for at least partly moving said member to said retracted position.

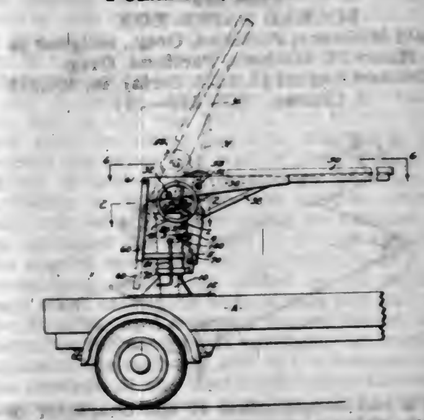
2,654,523
APPARATUS FOR VACUUM FILLING OF CONTAINERS
Stanley John Busby, London, England
Application July 7, 1949, Serial No. 103,394
In Great Britain July 9, 1948
4 Claims. (Cl. 226—116)

2. In a vacuum filling machine for filling liquid into containers, a filling head comprising a casing including a central orifice, a feed passage for liquid leading to said orifice and a vacuum feed passage; a vacuum tube extending from the casing and communicating with said vacuum feed passage; a feed tube disposed concentrically within the vacuum tube spaced therefrom and communicating with the liquid feed passage; a pair of trunnions laterally extending from opposite sides of the filling head; a support frame secured to the machine and having two depending arms each including a vertical bearing slot, each of said trunnions being slidably extended into a respective one of said slots thereby providing for rocking movements of the filling head about the trunnions and vertical displacement of the filling head relative to the support frame; bearing



blocks slidably fitted in each slot and abutting against the upper side of the respective trunnion; and a loaded spring fitted in each slot between the respective bearing block and the upper end of the respective slot for biasing the trunnions toward the lower ends of the slots.

2,654,524
LADDER OPERATING MECHANISM
Eugene G. Humpal and Roy O. Balogh, Cleveland, Ohio, assignors, by mesne assignments, to McCabe-Powers Auto Body Co., St. Louis, Mo., a corporation of Missouri
Application July 7, 1949, Serial No. 103,484
4 Claims. (Cl. 228—8)



1. The combination of an upright standard, a supporting member swiveled on the standard on a vertical axis, a ladder pivoted to the supporting member on a horizontal axis, an operator's support disposed in downwardly extending relation to, and rotatable with, the ladder, a stationary worm wheel carried by the standard in a horizontal plane, a rotatable worm mounted in the supporting member and coacting with the worm wheel, and means adapted for manipulation by an operator on said operator's support for turning the worm.

2,654,525
DISPENSING BOX
Charles Sam Adorney, Forest Hills, and Lester Dean Gill, Brooklyn, N. Y., and John Gibson McIlvain, Jr., Downingtown, Pa., assignors to Oakite Products, Inc., New York, N. Y., a corporation
Application January 25, 1951, Serial No. 207,754
3 Claims. (Cl. 229—17)

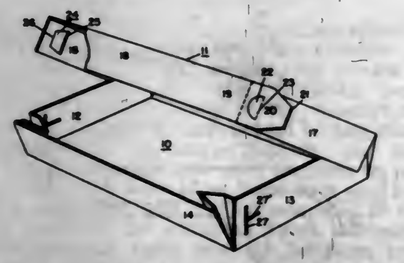
1. A dispensing package comprising a box having front, back and side panels and having flaps at one end of each of the front and back panels

and at least one of the side panels folded down to close the end of the box, a first line of severe weakening forming a tear line between the side panel and its flap, a second line of weakening extending longitudinally of the side panel from about the center of the first line, third and fourth lines of weakening extending angularly from the end of the second line remote from the first line to points adjacent the edges of the side panel,



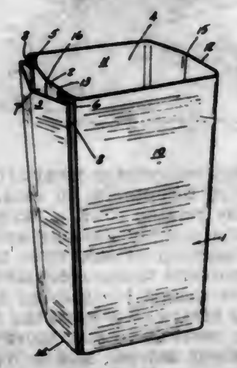
a fifth line of weakening in the side panel flap extending substantially in alignment with the second line, and sixth and seventh lines of weakening in the front and back panel flaps aligned with said fifth line, the side panel flap underlying the front and back panel flaps, the line of weakening in the lower of the front and back panel flaps constituting a slit, said sixth and seventh lines terminating a short distance away from said tear line.

2,654,526
LOCKED PAPER BOX
Ronald McReary, Portland, Oreg., assignor to Harry M. Mathers, Portland, Oreg.
Application August 18, 1952, Serial No. 305,012
5 Claims. (Cl. 229—33)



1. In a box construction of the character described, a pair of companion sections, each section having front and side walls and the walls of one section adapted to overlie the corresponding walls of the other section respectively when said box is closed, a flap extending longitudinally from a wall of said first mentioned section at a corner of said first mentioned section, said flap terminating in a tongue, a second tongue formed in said flap spaced longitudinally inwardly from said end tongue and extending in a direction opposite to that of said end tongue, an aperture cut out near the end of the wall of said first mentioned section adjacent the wall from which said flap extends, an engaging slot for said second tongue of said flap located in the wall of said other section underlying said aperture when said box is closed, said aperture having an edge near the adjacent corner of said box registering with said slot when said box is closed and an opposite edge spaced further from the respective corner of said box and so located that the end tongue of said flap can be inserted under said opposite edge when the second tongue of the flap is inserted in said slot, whereby, when the second tongue of said flap is inserted in its slot and the end tongue of said flap is inserted under said opposite edge of said aperture, said second tongue will lock the corresponding wall of said box sections together at said first mentioned edge of said aperture.

2,654,527
COMPARTMENT BAG
Ernest Walter Geckler and John F. Near, Minneapolis, Minn., assignors to Russell-Miller Milling Company, Minneapolis, Minn., a corporation of Delaware
Application July 19, 1950, Serial No. 174,674
2 Claims. (Cl. 229—56)

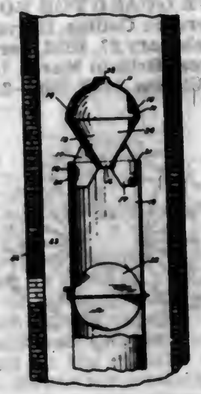


1. A bag formed from a single rectangular sheet of material and including a rectangular bottom wall and side walls projecting upwardly from the bottom wall in substantially right angular relation transversely of the bag and terminating in free edges defining a normally open upper end of generally rectangular form, one of said side walls comprising superimposed opposite end portions of said sheet, one end portion of said sheet having its free edge secured to the inner surface of the sheet of material intermediate its ends along a line adjacent one vertical corner of the bag, the other end portion of the sheet of material being of substantially greater width than said first end portion transversely of the bag and being disposed outwardly of said first end portion and having its free edge secured to the outer surface of the sheet of material along a line adjacent another vertical corner of the bag between which and said first corner said first end portion is disposed, said other end portion of the sheet of material providing with said first end portion thereof a pocket of substantially uniform width throughout the height of the bag, and said other end portion being provided with accordion folds adjacent each of said vertical corners with the area thereof intermediate the folds being normally in substantially parallel and spaced relation to said first end portion of the sheet, and the lower edge portions of said first and second end portions of the sheet of material being included in said rectangular bottom wall.

2,654,528
ACCELERATOR AND DIFFUSING NOZZLE FOR VENTILATING STACKS
Ben Cenes, Indianapolis, Ind.
Application October 31, 1951, Serial No. 254,169
3 Claims. (Cl. 230—96)

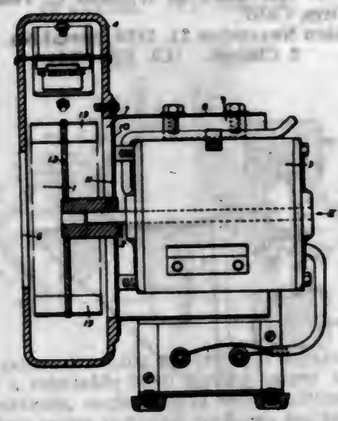
1. The combination of an air flue; a supply air pipe discharging by an open end within the air flue in a direction longitudinally and axially of the flue, of a nozzle centered over said pipe end comprising a hollow lower, inverted cone

section and an upper substantially hemispherical hollow section merging out of the cone section, said lower and upper sections defining a correspondingly shaped chamber therewithin entirely closed by the side walls of the cone section and said hollow section, each of said sections having



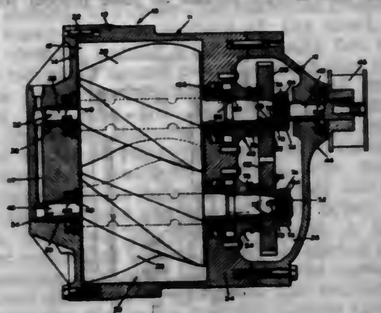
an opening in their respective lower and upper ends centered on the longitudinal center line of said pipe; and means fixing the lower end of said cone section in a circumferential spacing from the margin of said pipe opening; and said cone section lower end opening being spaced within said pipe below said pipe open end margin.

2,654,529
ROTARY FAN OR THE LIKE
William Herbert Smith, East Molesey, England
Application November 12, 1948, Serial No. 59,490
In Great Britain November 17, 1947
4 Claims. (Cl. 230—134)



1. A fan rotor comprising an approximately central partition having a plurality of closed ended slots circumferentially spaced therein and radially spaced inwardly from the periphery thereof, a plurality of blades passing through said slots and extending as cantilevers on either side of said partition, the section of said blades at the locus of assembly and the shape of said slots being different and co-operating in binding said blades in position.

2,654,530
SUPERCHARGER
Sidney Oldberg, Birmingham, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application August 5, 1949, Serial No. 108,750
4 Claims. (Cl. 230—142)

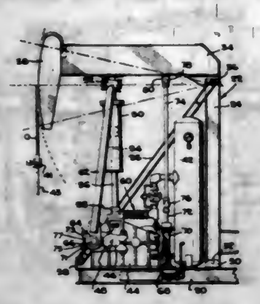


2. A rotary blower comprising a blower housing having axially opposite end walls, a pair of intercommunicating chambers and inlet and discharge ports arranged intermediate the chambers, one of said end walls having a pair of spaced openings therethrough, a pair of stationary bearings secured to the said wall of the housing having the spaced openings therethrough, each of said bearings being in concentric relation to one of the spaced openings, a pair of rotors, one in each chamber, mounted for interengaging rotative relation in a zone between the chambers, a pair of shafts, one for each rotor, journalled at one end in one end wall of the blower housing and each including portions extending axially beyond the other end wall of the housing, journalled in one of the stationary bearings, each including a reduced portion on one extremity, said reduced portion providing an annular shoulder adjacent the end wall of the housing having the spaced openings therethrough, a pair of intermeshing gears, one affixed to the portion of each shaft extending beyond said one end wall of the housing, and a spring loaded thrust bearing assembly for each rotor arranged on each shaft adjacent the said one end of the housing having the portions of the shafts extending therebeyond comprising a washer bearing axially upon one axial extremity of its associated bearing, a spring axially interposed between the washer and its associated gear and a second washer disposed on the opposite side of its associated bearing, from the first washer, axially interposed between the shoulder on its associated shaft and stationary bearing in axial bearing relation thereto.

2,654,531
AIR COMPRESSOR
Edgar W. Patterson, Downey, Calif.
Application June 25, 1947, Serial No. 756,914
4 Claims. (Cl. 230—172)

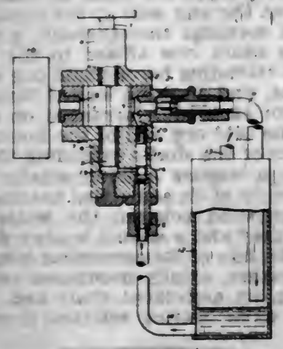
1. In an air balanced well pumping unit a walking beam, a pumping element pivotally connected to said walking beam, a crank arm having an adjustable length operatively connected to said walking beam, a source of power for said crank arm, a compressor cylinder, an inlet valve to admit air to the compressor cylinder, a piston member operatively connected to said walking beam and reciprocally mounted in said compressor cylinder, a sealing ring mounted on said piston, an exhaust chamber communicating with and forming a coaxial extension of said com-

pressor cylinder, an exhaust valve member reciprocally mounted in said exhaust chamber so as to alternately open and close the communication between said cylinder and said chamber, said piston member being so fixedly positioned in relation to said walking beam that said sealing ring remains within said compressor cylinder during the entire stroke of said piston for every



length of said crank arm, and an air displacement extension having a smaller diameter than the respective diameters of said cylinder and said chamber positioned between said piston member and said exhaust valve member and secured to one of said members and extending from said exhaust chamber into said compressor cylinder during the limit of the maximum compression stroke of said piston.

2,654,532
ROTARY COMPRESSOR
Thomas Winter Nichols, Hutton, England
Application April 27, 1948, Serial No. 23,497
In Great Britain October 30, 1946
4 Claims. (Cl. 230—205)



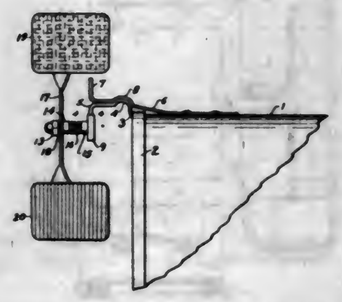
1. In combination, an oil sealed rotary vane type compressor, a separate container for the gas discharged by said compressor and for sealing oil, a fluid carrying connection between the discharge of said compressor and said container, a non-return valve in said connection, an oil supply conduit from said container to said compressor, a cylinder in communication at one end with said fluid carrying connection between the compressor discharge and said non-return valve and at the other end to said oil supply conduit, a valve in said oil supply conduit and controlling oil flow to said compressor, and a piston operative within said cylinder and operatively connected to said valve, whereby movement of said piston under the influence of pressure generated by the compressor on starting opens said valve to permit a flow of sealing oil and movement of said piston under the influence of residual pressure in said container on stopping said compressor closes said valve to shut off said flow of sealing oil.

2,654,533
PROTECTIVE GUARD FOR ROTARY FANS
Aubrey Lawrence Collins, Harrow, England
Application February 27, 1950, Serial No. 146,582
In Great Britain March 7, 1949
12 Claims. (Cl. 230—259)



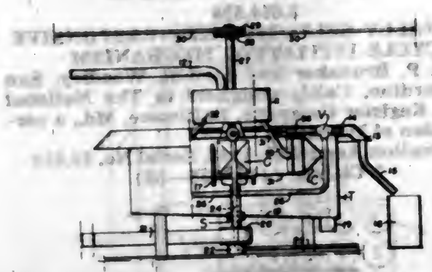
1. An electric fan having a motor, a rotary impeller driven thereby, and a protective guard surrounding said impeller, the guard comprising a rigid main portion which is flat in shape and has its general plane containing the axis of the motor and impeller, and a pair of side portions, each of said side portions comprising a plurality of arched members which are pivotally connected at their ends to the rigid main portion, and are adapted to be moved angularly from a spread operative position to a folded position in which they lie close against the main portion.

2,654,534
MAILBOX INDICATOR
James Adams Van Meter, Van Nuys, Calif., assignor of one-third to William C. Van Meter, Van Nuys, Calif.
Application November 21, 1950, Serial No. 196,812
2 Claims. (Cl. 232—34)



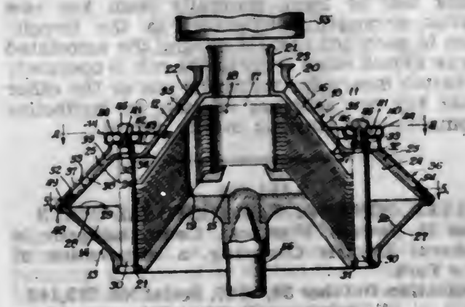
1. A combination rotatable indicator and handle device in a single unit for rural type mail boxes comprising a bracket having means at one end thereof adapted to clamp onto a finger-grip projection from the door of a mail box, means on the bracket supporting a swingbar for movement in a vertical plane, means on the bracket providing positive friction for the swingbar, the swingbar having at each end a signal surface so that when the swingbar is employed as a handle to open the door of a mail box, it can simultaneously be positioned to give the proper signal.

2,654,535
APPARATUS FOR CENTRIFUGAL SEPARATION
Dean H. Davis, Longmont, Colo.
Application July 25, 1949, Serial No. 106,613
17 Claims. (Cl. 233—15)



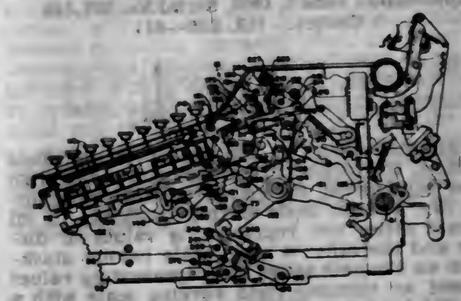
1. Apparatus for separating heavier and lighter particles carried by liquid in a pulp, which comprises a series of circumferentially spaced compartments, each including an outlet chamber having a radially outwardly spaced outlet and a foraminous wall on the radially inward side of said chambers; means for rotating said compartments about a central axis; means for supplying pulp to the inner side of each of said foraminous wall; auxiliary water supply means having a connection with each said outlet and adapted to supply auxiliary liquid to flow past said outlet and to a point of discharge, such auxiliary liquid being adapted to carry with it heavier particles passing through said foraminous wall and then to said outlet; and means for introducing a condensable vapor into each said chamber.

2,654,536
POWER WASHING CREAM SEPARATOR
Howard A. Heckendorf, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application July 12, 1951, Serial No. 236,413
10 Claims. (Cl. 233—20)



1. A power washing centrifugal separator comprising a rotatable bowl having upper and lower bowl portions, each of said bowl portions having inner and outer inclined surfaces converging respectively at inner and outer maximum peripheries, an annular substantially continuous discharge orifice formed in said bowl adjacent its maximum periphery, an upwardly extending tubular member centrally connected to the upper bowl portion and having an inlet bore for the delivery of material to be separated to the interior of said bowl, a valve structure supported for rotation with said bowl, said valve structure comprising an annular shell having an inner surface inclined in the same general direction as the inclined outer surface of the upper bowl portion, a downwardly extending flange connected to the outer peripheral edge of said shell, said shell being axially spaced from the upper inclined surface of the upper bowl portion to provide a liquid receiving pressure chamber, said shell having a centrally disposed opening encircling the upwardly extending tubular member, an annular sealing element of rubber-like material connected to the inner inclined surface of the shell, said sealing element having a substantially flat lower surface normally seated over the discharge opening, the outer peripheral edges of said sealing element engaging the downwardly extending flange, the inner peripheral edge of said sealing element being of concave shape and having a relatively thin annular flexible web portion projecting inwardly toward the axis of the bowl, said outer inclined surface of said upper bowl portion including an annular recess, a spring member connected to said bowl, said spring member engaging said shell for urging the same in a first axial direction to compress the sealing element over the discharge opening during the normal separating operation of said bowl, and means for supplying washing liquid to said bowl and to said pressure chamber, said means including a tubular feed element in axial alignment with the inlet bore and having an opening of larger diameter than the diameter of the inlet bore, said annular web portion engaging the annular recess of the upper bowl portion in sealing relation during rotation of the bowl whereby the pressure in said pressure chamber effects axial movement of the shell in a second direction to displace the sealing element from the discharge opening to permit the discharge of washing liquid therethrough, and a bleeder orifice in communication with the pressure chamber, said orifice being adapted to continually discharge washing liquid therefrom during a washing operation.
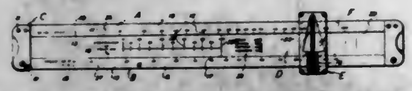
2,654,537
TOTALIZER CONTROL MECHANISM FOR MULTIPLE TOTALIZER ADDING-SUBTRACTING MACHINES
Harry L. Lambert, Webster, N. Y., assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application May 27, 1949, Serial No. 95,703
3 Claims. (Cl. 235—60.31)



2. In a calculating machine having a main operating means for giving the machine cycles of operation; two main totalizers; an extra totalizer; selectively operable digit-key mechanism; a differential actuator mechanism given permissible excursions of movement under digit-key control in item-entering operations, and under totalizer control in total-taking or sub-total-taking operations; a totalizer selecting means adjustable to select any one of the three totalizers

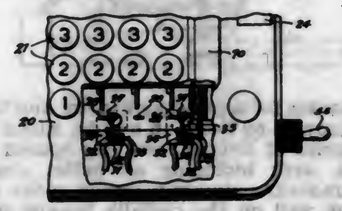
for engagement with the differential actuator mechanism during ensuing machine operations; totalizer engaging mechanisms for the two main totalizers, which through the main operating means leaves the said two main totalizers in engagement with the differential actuator mechanism at the end of a machine operation, if not already in such engagement; a totalizer engaging actuator mechanism for each of said two main totalizers, each normally conditioned to disengage the associated totalizer from the differential actuator mechanism during the first half of a machine cycle and to engage such during the second half of a machine cycle, in item-entering timing, each said totalizer engaging actuator mechanism being adjustable to cause the engagement of its associated totalizer in total-taking, sub-total-taking, or non-add timing; total-taking control means adjustable to cause the totalizer engaging actuator mechanism to cause the selected one of said two main totalizers to engage the differential actuator mechanism in total-taking timing or sub-total-taking timing; non-add control means adjustable to cause the totalizer engaging-actuating mechanism to cause the selected one of said two main totalizers to engage the differential actuator mechanism in non-add timing; the combination of totalizer engaging means operable to engage or disengage the extra totalizer from the differential actuator mechanism; means normally conditioned to act upon the extra totalizer engaging means to disengage the extra totalizer from the differential actuator mechanism at the beginning of a machine operation if not then disengaged, but disabled by the total-taking control means when it is adjusted for total-taking or sub-total-taking, and the totalizer selecting means is adjusted to select said extra totalizer for engagement with the differential actuator mechanism; and means adjusted by the totalizer selecting means when adjusted to select said extra totalizer for normally causing the main operating means to engage said extra totalizer with the differential actuator mechanism during the second half of a machine cycle.

2,654,538
INSTRUMENT FOR DETERMINING MOTOR VEHICLE ACTION
Louis J. Fuller, Los Angeles, Calif.
Application June 3, 1952, Serial No. 291,440
9 Claims. (Cl. 235—61)



3. An instrument of the character described including, two straight rigid elongate scales with bodies established in spaced parallel relationship, one a main scale having markings in an elongate series and representing values of distance and the other a main scale having markings in an elongate series and representing values of speed, an elongate rigid working scale with a body slidable between the main scales and parallel therewith and having markings in an elongate series and including a reference mark cooperatively related to the markings on the main scales and having markings in a series longitudinal of the working scale and representing values of friction coefficient, a slide movable longitudinally relative to the scales and having an indicating mark cooperatively related to the markings on each of the scales, and pitch indicating means including markings in a series extending longitudinally of the scales and from the indicating mark and a gravity actuated element carried by the slide and cooperatively related to the last mentioned markings.

2,654,539
ORDINALLY-SELECTIVE KEY-RESPONSIVE CYCLE INITIATING MECHANISM
Damon P. Brubaker and Fred E. Woodley, San Bernardino, Calif., assignors to The National Cash Register Company, Baltimore, Md., a corporation of Maryland
Application August 30, 1948, Serial No. 46,814
7 Claims. (Cl. 235—62)

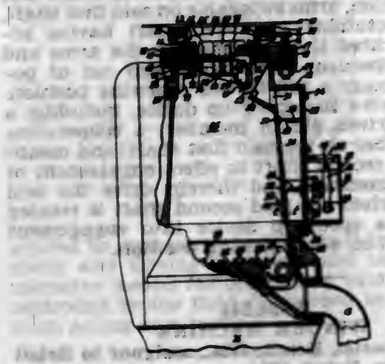


1. In a machine of the class described having denominational order rows of digit value keys selectively operable to set up a value to be entered into the machine, main operating means for giving the machine cycles of operation in which the set-up amounts are entered into the machine and in which the operated keys are restored to the unoperated condition as an incident to the completion of a machine cycle, an electric motor for driving the main operating means, an electric circuit for operating the electric motor, said circuit containing a normally open switch, and switch-closing means which when operated closes said normally open switch and conditions the main operating means to be operated for a cycle of operation by the motor, the combination of an electric machine-starting means which when energized closes the normally open switch to start the motor and cause a cycle of machine operation; an electric circuit for energizing said starting means, said circuit containing two or more normally open key row switches arranged in parallel in the circuit; means in each key row for closing the associated key row switch when a key in the row is operated; and switch means for rendering one or the other of said key row switches effective or ineffective to complete the starting means circuit.

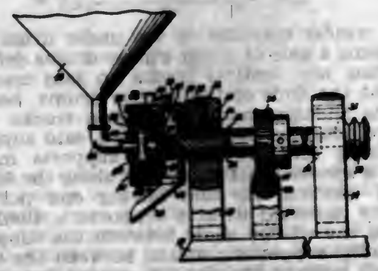
2,654,540
WATER CONTROL FOR DISPOSAL UNITS
James H. Powers, Westport, Conn., assignor to General Electric Company, a corporation of New York
Application October 30, 1947, Serial No. 783,140
4 Claims. (Cl. 241—36)

1. In a waste disposal unit, a housing having a fitting for connection to a sink drain to provide a water supply opening for said housing, said fitting including a rotatable member having a trough-like structure for diverting substantially all water flowing through said fitting toward the side of said housing, means for manually rotating said fitting, a waste grinding and water receiving compartment below said fitting, a waste grinder at the lower part of said compartment, a ground waste and water discharge beyond said grinder, a water flow conduit having an inlet at a side wall of said housing in alignment with the end of said trough and an outlet discharging tangentially into said compartment above the

grinder, said conduit including inlet and outlet having a flow capacity exceeding the maximum requirement of said waste grinder, a first and a second electric switch in series in the motor circuit, means on said rotatable member for automatically closing the first switch upon rotation of said fitting to bring its trough into position to discharge into said conduit, and a sensing member in said conduit responsive to the minimum flow of water requirement of said waste grinder therethrough for closing said second switch.

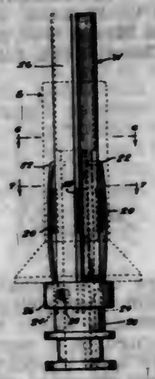


2,654,541
DISPERSION MILL
Frank A. Sullivan, Salem, Mass., assignor to The Tri-Home Corporation, Salem, Mass., a corporation of Massachusetts
Application June 25, 1949, Serial No. 101,369
4 Claims. (Cl. 241—163)



1. In a dispersion mill, a relatively fixed housing, a relatively thick ring of abrasive material fixed on a wall of the housing interiorly of the housing, a rotor plate within the housing, a relatively thick disk of abrasive material mounted on said rotor and disposed opposite and in slightly spaced relation to said fixed ring of abrasive material whereby adjacent generally parallel surfaces of said ring and disk define a passage for centrifugal movement of material between them, means for delivering material through a wall of the housing into the central opening in said ring whence it enters between said generally parallel surfaces of the ring and disk, an annular member fixed on a wall of the housing and relatively closely surrounding the peripheries of said ring and disk, said rotor plate having an annular peripheral portion outward of the periphery of said abrasive disk, and said fixed annular member coacting with the periphery of said abrasive disk to provide an annular passage leading to said peripheral portion of the rotor plate and having an annular edge portion coacting with said peripheral portion of the rotor plate to provide a restricted annular outlet around said peripheral portion of the rotor plate, and abrasive-resistant material on the coacting surfaces of said restricted outlet whereby they are more resistant to erosion than the coacting surfaces of said abrasive ring and disk.

2,654,542
MOLDED PLASTIC SPOOL AND DRIVE
Ellis H. Parsons, Harisville, S. C., assignor to Seneca Products Company, a corporation of South Carolina
Application January 4, 1950, Serial No. 136,752
6 Claims. (Cl. 242—46.2)

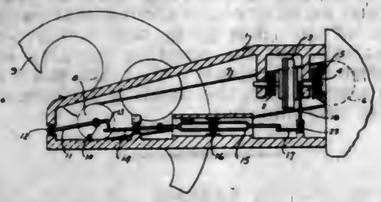


6. The combination with a winding spindle of the type having a spool-receiving shank fitted with a plurality of spool-driving blades longitudinally disposed at regular intervals around the periphery thereof, of a plurality of spring arms longitudinally disposed on said shank intermediately with respect to said blades, a removably assembled collar at the bottom of said shank for encircling said spring arms and maintaining them in place on said shank, and a molded plastic single head spool having a cylindrical barrel formed with a bore adapted to fit said shank, the bore of said barrel being further formed with a plurality of spaced longitudinal grooves extending upwardly from the lower end thereof, said grooves being adapted to receive the spool-driving blades on said shank and thereby provide for driving engagement between said spool and said shank without marring the bore of said barrel, and said bore being of uniform diameter and remaining continuous between said spaced grooves for surface contact with said spring arms for retaining said spool on said winding spindle.

2,654,543
REGULATOR FOR TAKE-UP REELS
Erwin May, Wetzlar, Germany, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany, a corporation of Germany
Application October 21, 1949, Serial No. 122,714
In Germany October 4, 1948
7 Claims. (Cl. 242—55)

4. A film winding device comprising a take-up reel; pivotable support means for said reel; means for regulating the motive power of the

reel; and driving means for said reel including two pulleys and an endless belt, the axes of said



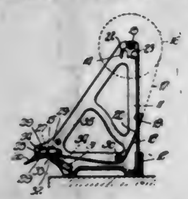
pulleys, of said reel and said pivot of said support means being arranged substantially in the same plane.

2,654,544

DEVICE FOR USE IN TEARING SHEET MATERIAL

Herbert W. Pusheck, Evanston, Ill.

Application May 6, 1948, Serial No. 25,467
4 Claims. (Cl. 242—55.5)



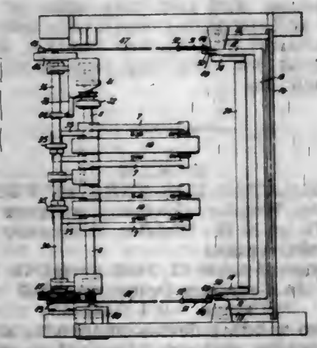
1. In a device of the character described, a supporting stand comprising laterally spaced side frame members which are adapted to be selectively mounted in a vertical or horizontal position relative to a support, a tear-off blade including a base member, said base member having an axially extending aperture in an end thereof adapted to receive a securing bolt, a nut embedded in said base member in line with said aperture for threaded engagement with said bolt, one of said frame members having an aperture for receiving said securing bolt, and a plurality of inwardly extending positioning lugs on said frame member for cooperation with said bolt to secure said tear-off blade in fixed relation to said frame member.

2,654,545

WEB-RENEWING MECHANISM

Thomas Richard Bennett, Kingsbury, London, England, assignor to R. Hoe & Co. Inc., New York, N. Y., a corporation of New York

Application March 13, 1950, Serial No. 149,244
In Great Britain March 14, 1949
3 Claims. (Cl. 242—58)



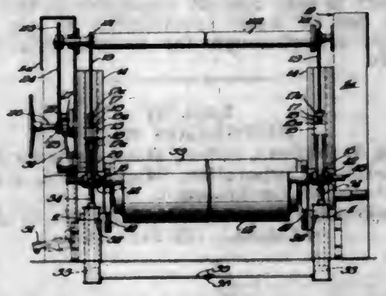
1. A web renewing mechanism comprising a rotatable support for a plurality of web rolls, means to move the support to carry the rolls successively into web renewing position, with the periphery of a replacement roll adjacent a web passing from a running roll on the support, a driven belt speed-up device having a belt pulley secured to a first rotatably supported shaft and in combination, arms swingable on said first shaft, a second rotatably supported shaft having eccentrics secured thereon to swing the arms and move the speed-up device into and out of position to engage a roll in web renewing position, means to drive the speed-up device, including a rotatably driven clutch member, a cooperating clutch member on the said first shaft, and means on the said second shaft to effect engagement of the clutch members and thereby drive the said first shaft when the said second shaft is rotated to move the speed-up device into engagement with the roll in web renewing position.

2,654,546

WINDER MACHINE

Lloyd Hornbostel, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin

Application June 26, 1951, Serial No. 233,657
9 Claims. (Cl. 242—66)



4. A winder machine of the under drum type comprising a pair of under winder drums defining a winding nip, vertical tracks on said machine adjacent the ends of the winder drums, bearing supports slidably mounted in said tracks, fluid pressure actuated means engaging said supports for raising and lowering the supports in the tracks, a winder shaft extending along the length of said winding nip and having end portions rotatably mounted in said supports, a shell enveloping the winder shaft between the supports, and flexible supporting means between the shaft and shell holding the shell in spaced concentric relation around the shaft and accommodating relative deflection of the shell and shaft, said supporting means being localized at two spaced areas each inwardly from the end of the shell and outwardly from the axial center of the shaft.

2,654,547

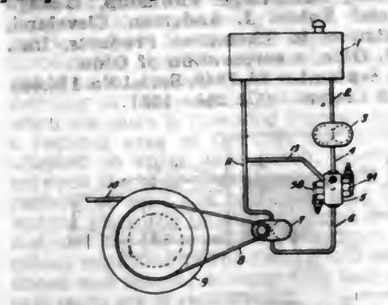
CABLE REELING MECHANISM

Charles F. Ball and Richard T. Hair, Franklin, Pa., assignors to Joy Manufacturing Company, a corporation of Massachusetts

Application February 26, 1947, Serial No. 731,126
30 Claims. (Cl. 242—90)

2. In a cable reeling mechanism adapted to supply power to a moving vehicle, a winding reel adapted to have a cable wound thereon, a fluid motor for driving said reel in a direction to wind cable thereon, a fluid pump, and a pressure line connecting said pump to said motor, said motor being rotatable by said winding reel as a pump

when cable is pulled off of the reel, means for imposing on said motor when it is driven as a pump a back pressure lower than the pressure



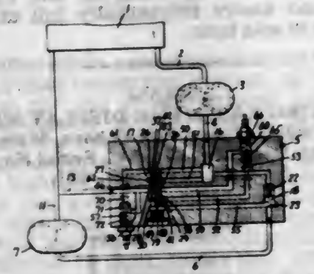
applied by said pump to it when it is acting as a motor and driving said reel, and automatically operative means for controlling said last means controlled by the fluid discharged by said motor when acting as a pump.

2,654,548

CABLE REELING MECHANISM

Richard J. Hopkins, Franklin, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania

Continuation of application Serial No. 24,558, May 1, 1948. This application February 25, 1953, Serial No. 338,790
15 Claims. (Cl. 242—90)



1. In a cable reeling mechanism adapted to supply power to a moving vehicle, a winding reel adapted to have a cable wound upon it, a motor-pump device operable as a motor to drive said reel in a direction to wind cable thereon, a fluid pump, a pressure line connecting said pump to said motor-pump device, said motor-pump device being driven by said winding reel to cause the same to operate as a pump when cable is pulled off of the reel, and means for imposing on said motor-pump device a predetermined supply pressure when it is operating as a motor and a lower back pressure when it is being driven by the reel and acting as a pump and for connecting said fluid pump for substantially free discharge of the fluid which it pumps while said motor-pump device is being driven by the reel, including a valve element movable to different positions to effect said changes in pressure and actuated by fluid pumped by said motor-pump device when the latter is driven by the reel, said valve element having associated therewith means for permitting the passage of fluid from one end to the other thereof and means controlled by the movement of said valve for preventing fluid flow through said fluid passage permitting means in certain positions of said valve element intermediate said different positions.

2,654,549

FIBER GLASS SPOOL

Frederick A. Rappleyea, Oak Park, Ill., assignor to Hubbard Spool Company, Chicago, Ill., a corporation of Illinois

Application October 27, 1949, Serial No. 123,827
4 Claims. (Cl. 242—119)



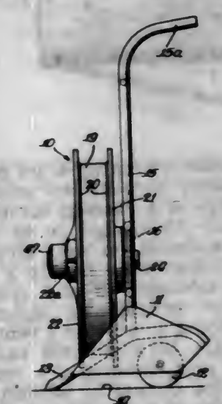
1. A spool construction comprising an integral body defining a smooth-surfaced hub and a pair of continuous smooth-surfaced head portions, an end plug secured at each end of said body, said end plugs and said body each consisting of 55–70% of a thermoset polyester resin matrix having embedded therein 30–45% of matted glass fibers reinforcing said matrix and completely enclosed and bound together thereby, and a tubular rigid metal insert carried by said end plugs and extending coaxially of said hub.

2,654,550

COIL HOLDER

Alvin L. Winkler, Chicago, Ill., assignor to Acme Steel Company, Chicago, Ill., a corporation of Illinois

Application November 9, 1950, Serial No. 194,855
9 Claims. (Cl. 242—124)



1. A coil holder for metal coils comprising, a drum, a side plate having a hub portion mounted on said drum, a locking member carried by said drum and arranged to occupy different positions axially thereof, and means for interlocking said hub portion with said member in each of said positions of said member.

2,654,551

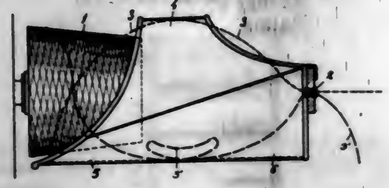
DEVICE FOR CONFINING THE THREAD BALLOON WITH A PAY-OFF BOBBIN

Lambertus te Strake, Deurne, Netherlands

Application April 27, 1950, Serial No. 158,506
In the Netherlands September 27, 1949
1 Claim. (Cl. 242—128)

A device for confining the thread balloon with horizontally supported paying-off bobbins of creels which device has a thread-eye axially

spaced from the bobbin, comprising a standing tubular guide member concentric to the horizontal axis of the paying-off bobbin for guiding the thread, said guide member having a length



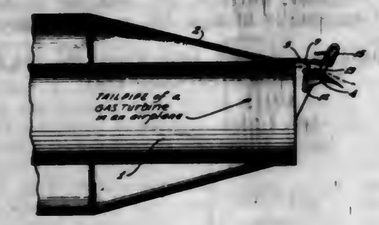
corresponding to the distance between the thread-eye and the support of the bobbin, one side of the circumferential surface of said member with respect to the axis of the bobbin being cut away except in the center section thereof.

2,654,552

MOVABLE JET DEFLECTOR TO COMPENSATE FOR DESTABILIZING MOMENT IN A JET AIRCRAFT

Julius Jonas, Los Angeles, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California

Application February 24, 1948, Serial No. 10,520
6 Claims. (Cl. 244—52)



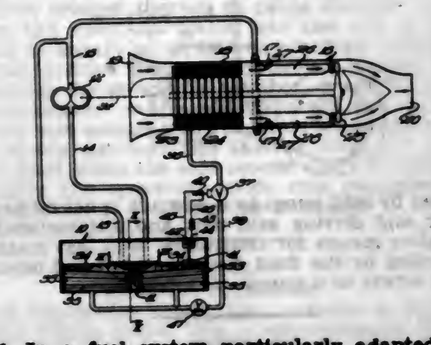
1. In an airplane driven by a jet of hot gases directed rearwardly through an exhaust opening of the tailpipe of a gaseous combustion turbine engine, said jet located so as to produce a destabilizing moment on said airplane when in flight, a deflection vane having a basal portion positioned adjacent to and symmetrically located about the vertical axis passing through said exhaust opening to provide a vent for a portion of said gases between said basal portion and an edge of said opening, the remainder of said vane extending outwardly beyond said opening and toward the axis of said tailpipe to intersect and deflect at least a portion of the gas passing through said opening; said vane being rotatable about a pivot to change the angle of inclination of said vane with respect to the axis of said tailpipe, said vane being positioned with reference to said pivot to increase the vent area with an increased deflection angle of said vane, whereby the deflection of said gases is changed without substantially changing the total effective exit area; said vane having one deflected position creating a moment on said airplane opposed to and substantially compensating for said destabilizing moment; and an extension member projecting rearwardly from the tailpipe opening toward the axis of said tailpipe and spaced from said vane to provide a passage therebetween for the vented gases, said passage being inclined toward the axis of said tailpipe.

2,654,553

FUEL TANK

T Cyril Neon, Bainbridge Township, Geauga County, and Robert J. Anderson, Cleveland, Ohio, assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application September 20, 1949, Serial No. 116,662
5 Claims. (Cl. 244—135)



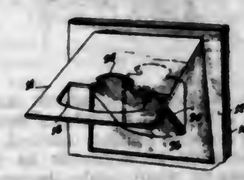
1. In a fuel system particularly adapted for use in aircraft, a fuel tank, a fuel delivery means adjacent the bottom of said tank and leading therefrom, an expansible bladder within said tank, fluid connections to said bladder, and a valve operable upon predetermined variations in the level of fuel in said tank and controlling the supply of fluid under pressure through said fluid connections to said bladder, to expand said bladder and decrease the internal volume of said tank upon a predetermined drop in the fuel level therein, and assure substantially full utilization of the fuel in said tank.

2,654,554

SUPPORTING EASEL FOR DISPLAY MOUNTS

Carroll N. Cress, Middleboro, Mass.

Application December 27, 1948, Serial No. 67,284
1 Claim. (Cl. 248—35)



A display mount comprising a supporting panel and a substantially co-extensive backboard fixed in face-to-face relation, a mount supporting leg formed in said backboard and having one end thereof attached to said backboard for swinging movement, the peripheral edges of said leg being in frictional contact with the corresponding edges of the backboard recess in which the same is formed, a slot in said leg including a slot defining surface having a notch therein, said notch positioned in the portion of said slot defining surface facing the end of said mount supporting leg attached to said backboard, an imperforate bracing tongue attached to said panel in the area under said leg, said tongue having a free end disposed toward the attached end of said leg and having its other end resiliently attached to said panel for swinging movement along a line in said panel that is located adjacent the bottom of said slot when said supporting leg and said panel are in face-to-face relation whereby said tongue may be rotated and extended through said slot and

lie in a plane substantially parallel to and adjacent said supporting leg when said supporting leg and said panel are in face-to-face relation, the body of said tongue being of less width than said slot to provide for free movement of the tongue through the slot but sufficiently wide and so disposed as to contact with one face of said slot defining surface and in notch spanning relation when the same is extended through said slot, and a reduced area at the free end of said tongue adapted to enter said notch, whereby contact between the body of said tongue and the defining surface of said slot will cam said tongue outwardly when the tongue is extended through the slot and the leg is moved outwardly, and the resilient mounting of the tongue will cause said reduced end thereof to snap into said notch when said parts are in registration.

2,654,555

GUTTER CIRCLE AND METHOD OF MAKING SAME

Max Rachlin, Flushing, N. Y.; Helen Pollock and Eva Rachlin, executrices of said Max Rachlin, deceased

Application April 4, 1947, Serial No. 739,429
6 Claims. (Cl. 248—48.2)



6. A gutter circle comprising a channel shaped, arcuate, gutter supporting portion, an attaching portion at one end of said arcuate portion, the gutter supporting portion having flanges that are parallel from said attaching portion throughout the major portion of their extent, said flanges merging together and contacting each other at the end of said gutter supporting portion opposite to said attaching portion, the planes of the flanges and the plane of the attaching portion being disposed at right angles and the juncture of such planes lying along parallel straight lines.

2,654,556

NURSING BOTTLE SUPPORT

La Verne B. Lathrop, Dundee, Ill.

Application August 31, 1949, Serial No. 113,462
2 Claims. (Cl. 248—105)



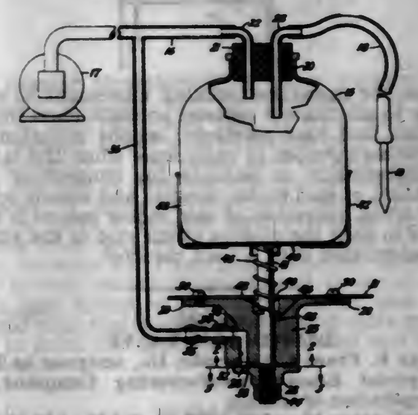
2. A nursing bottle support adapted to follow the movements of a baby during the feeding thereof while also being operable to restore the supported bottle to a predetermined position upon release of the bottle by the baby, comprising a suction cup equipped with a flexible and resilient collar normally perpendicular to a surface receiving the suction cup while being yieldable to follow the baby's movements, a standard carried by said collar in substantial axial alignment therewith, said standard having a slotted upper portion, a spring member having a plurality of coils adapted to receive the body of a nursing bottle and having a forwardly-extending portion terminating in a U-shaped clamp engageable with the neck of a nursing bottle, said spring member being provided at its opposite end with a ring, and an adjustable clamping means having portions extending through said ring and slot for adjustably supporting said spring upon said standard.

2,654,557

SUCTION APPARATUS

Stanford A. Henderson, Buffalo, N. Y., assignor to Gomco Surgical Manufacturing Corp., Buffalo, N. Y., a corporation of New York

Application June 24, 1950, Serial No. 170,233
12 Claims. (Cl. 249—2)



1. In suction apparatus including a closed collecting receptacle and separate suction and liquid inlet lines communicating with the upper part of said receptacle, the combination therewith of means to prevent flooding of said suction line with liquid collected within said receptacle, said means comprising valve body and closure members one of which is movable relative to the other, said valve body member being provided with a port vented to the atmosphere and which is arranged to be normally closed by said valve closure member, means establishing communication between said port and suction line at all times, said receptacle being connected with the movable one of said members whereby the weight of said receptacle and its contents tend to separate said members to open said port, and means urging said members to close said port and operable to permit said members to separate and open said port when said weight reaches a predetermined value.

2,654,558

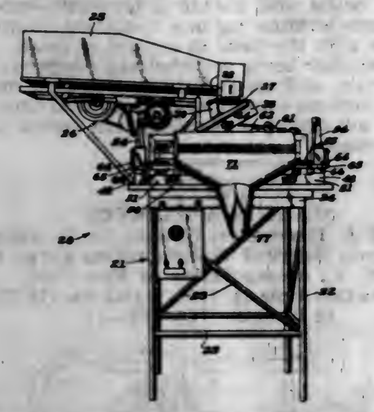
AUTOMATIC WEIGHING AND SEPARATING DEVICE

Harry C. Kegg, Westerville, Ohio

Application October 7, 1949, Serial No. 120,151
12 Claims. (Cl. 249—28)

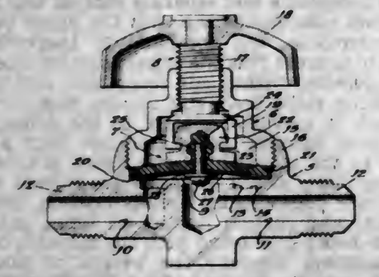
1. An automatic weighing device comprising a pair of spaced scales normally biased to unbalanced condition; a chute disposed for rock-

ing movement between said scales, opposite ends of said chute registering with the load receivers of said scales when said chute is tilted toward the respective scales; a closure for each end of said chute; means for opening the closure at the end of the chute in registration with a load receiver; means for continuously supplying a commodity to be weighed to said chute; motor



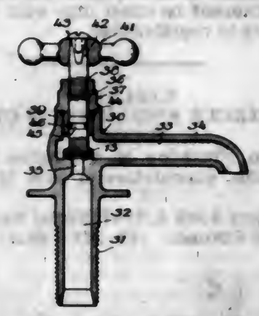
means for imparting rocking movement to said chute to alternately register opposite ends thereof with said load receivers; means actuated by a movable member of each scale when the latter is substantially in balance for controlling the operation of said motor means; and means operative when operation of said motor means is initiated to shut the closure at the end of the chute in registration with a load receiver.

2,654,559
DIAPHRAGM VALVE
George E. Franck, Riverside, Ill., assignor to The Imperial Brass Manufacturing Company, a corporation of Illinois
Application March 8, 1950, Serial No. 148,360
4 Claims. (Cl. 251—24)



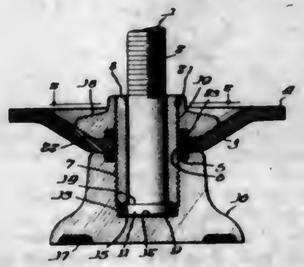
4. As an element of a valve, a diaphragm unit comprising a cap-like element having an axial recess opening only through one end thereof and the recess having intermediate its ends an annular groove, a first lamina composed of polyethylene having an axial projection cast into and filling the groove and said recess, said first lamina being flexible and providing a certain resistance to rupture, a second very thin lamina composed of polytetrafluoroethylene highly resistant to chemical action, said second lamina being substantially about one fourth as thick as the first lamina, a hole extending through said second lamina and into the axial projection of said first lamina and terminating within said projection, a screw self-threaded in said hole to expand said axial projection tightly within the recess in the cap-like element, and a washer of the same material as said second lamina interposed between the screw head and said second lamina to form a seal around the opening in said second lamina through which said screw projects.

2,654,560
VALVE WITH SELF-ANCHORING SEAL
Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware
Application March 8, 1949, Serial No. 80,129
3 Claims. (Cl. 251—27)



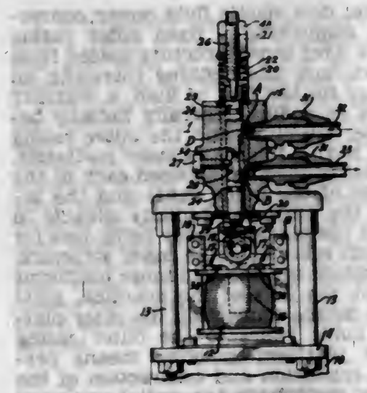
1. In a sealing construction for a faucet body provided with a fluid passage, a valve seat encompassing the passage and a valve member movable in the body, said valve member provided with a recess provided in the lower end opening toward the passage and valve seat and having a circumferential side wall and a channel at the base of the recess and of greater diameter providing an annular offset, and a preformed resilient sealing element mounted in the recess and comprising a flat, imperforate base against which the fluid pressure acts, a depending annular sealing lip projecting outwardly from the base in contact with the circumferential side wall of the recess and adapted to engage and seal against the valve seat to close the passage, and a radially outwardly projecting flange conformably received in the annular offset to thereby anchor and retain the seal in position, and means for limiting the axial compression on the sealing lip.

2,654,561
STEM AND CLOSURE MEMBER CONNECTION
James Trefil, Berwyn, Ill., assignor to Crane Co., Chicago, Ill.
Application June 15, 1949, Serial No. 99,289
4 Claims. (Cl. 251—31)



3. A threaded connection for a closure member, the combination including a closure member with a recessed portion, a threaded sleeve within said recess, a diaphragm on the closure member, a clamping nut on said sleeve and supporting an upper surface of the said diaphragm, the said diaphragm being clamped between the clamping nut and the closure member, a stem for said sleeve member, the said sleeve member having a reduced annular portion for contact with an inner end surface of said recessed portion of the said closure member to receive a shouldered end portion of the stem thereby to control the degree of axial movement permissible between the said stem and closure member.

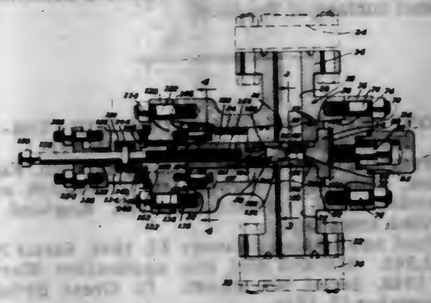
2,654,562
THROTTLE VALVE
Shubel A. Foster, Birmingham, Mich., assignor to Foster Engineering Company, Royal Oak, Mich., a corporation of Michigan
Application January 7, 1950, Serial No. 137,430
2 Claims. (Cl. 251—34)



1. In a liquid volume of flow regulating device for selectively controlling the volume of flow of liquids under pressure, a housing having a piston chamber and two spaced liquid conducting orifices communicating with said chamber, a piston disposed in and normally filling the chamber of said housing to seal said chamber, said housing having a slot permitting communication between the spaced orifices for freely transmitting liquid from one orifice to the other and having a diminishing needle-point-groove communicating with the slot at one end thereof; said piston being movable relative to said housing to move the slot out of communication with one of the orifices of said housing and to move the needle-point-groove into communication with said one orifice for restricting the flow of liquid between the orifices, said needle-point-groove diverging in the direction of flow of said fluid when flowing from one orifice to the other whereby said needle-point-groove presents its smallest cross-section to said one orifice and constantly increases in cross-section in a direction toward said other orifice.

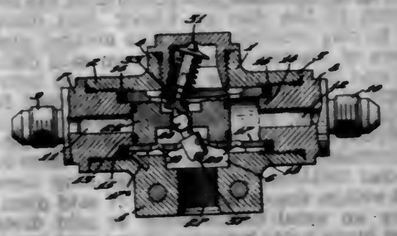
2,654,563
VALVE WITH REMOVABLE SEAT
Robert A. Mueller and Robert L. Crain, Houston, Tex., assignors to Gray Tool Company, Houston, Tex., a corporation of Texas
Application October 30, 1947, Serial No. 783,107
6 Claims. (Cl. 251—62)

1. A valve assembly for use on a high pressure fluid line comprising a body having means at opposite ends for attachment in said line, said body having a straight passage extending therethrough between said attachment means, said body having a bore extending laterally of and interrupting said passage, said bore tapering inwardly from one end at one side of said body to a point beyond said passage and thence flaring outwardly at its other end on the opposite side of said body, a removable valve seat assembly comprising a tapered valve seat plug inserted to seating position in said bore through said one end thereof, said plug having a passage extending therethrough as large as and adapted to be aligned with the passage through said body and having annular sealing rings thereon which completely surround the opposite ends of said plug passage, said valve seat plug having a bore therein extending from its forward end across



the passage therethrough, a valve member removably mounted and for movement in said bore of said valve seat plug to open and close said passage, a first tapered sealing plug removably mounted in the outer part of said bore at said one side of said body having an adjustable member for applying pressure to said valve seat plug to lodge it in said bore, a second tapered sealing plug secured in said other end of said bore, packing rings extending around said first and second sealing plugs to seal them in said bore, and actuating means carried by said last named plug and connected with said valve member to move the latter between closed and open positions.

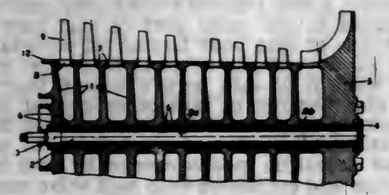
2,654,564
SHUTTLE VALVE
Karl H. Pech, Bridgeport, Conn., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y., a corporation of New Jersey
Application December 24, 1949, Serial No. 134,884
4 Claims. (Cl. 251—113)



3. In combination in a shuttle valve, a casing having axially aligned, internally screw threaded openings, a screw threaded metallic plug fitting within each opening, each plug having an axial flow passage and having an annular radial shoulder and a cylindrical axial boss at its inner end, the end surface of each boss being shaped to provide a flat annular metallic seat face bordering its flow passage, the end of each boss also having an annular rib projecting beyond the plane of its seat face and bounded by coaxial grooves in the end of the boss, a resilient packing annulus embracing each boss and resting upon the adjacent radial

shoulder, an elongate guide sleeve whose opposite ends fit snugly about the bosses of the respective plugs and contacts the resilient packing annuli, and a piston which slides within the sleeve, each end of the piston having an annular face designed to make metal to metal contact with the seat face of the corresponding plug thereby to close the flow passage through the plug, each end of the piston having therein an annular groove and a mass of resiliently deformable material filling said groove, the diameter and location of said latter groove being such that the deformable material is contacted by the annular rib on the plug before the head makes metal to metal contact with the seat surface of the plug.

2,654,565
CONSTRUCTION OF ROTORS FOR COMPRESSORS AND LIKE MACHINES
Geoffrey Bertram Robert Feilden, Lincoln, England, assignor to Power Jets (Research and Development) Limited, London, England, a British company
Original application January 15, 1946, Serial No. 641,305. Divided and this application March 4, 1948, Serial No. 12,993. In Great Britain December 19, 1945
7 Claims. (Cl. 253—39.15)



1. A bladed rotor for a multistage axial flow compressor, turbine or similarly bladed machine, comprising at least three axially spaced, centrally bored, discs or wheels, each comprising a rim portion and an integral body portion, said rim portion being axially enlarged as compared with said body portion and the latter being relatively thin in the sense that its radial extent is greater than its axial thickness and constitutes the major dimension of the disc or wheel; said discs or wheels having interengaging hub means; successive rows of blading separate from said discs or wheels and having blade roots disposed between said rims so as to space apart the opposed faces of adjacent rims; said rims and blade roots having complementary formations providing both for their abutment in an axial sense and their relative radial location; an axial tensioning element located within the central bores of said discs for applying an axial compression to said discs to nip said blade roots between them; said tensioning element having an outside diameter substantially smaller than the diameters of the central bores, thereby providing a clearance between said tensioning element and said discs along at least a major portion of the length of said tensioning element and leaving the radial positioning of the discs substantially entirely to the interengaging hub means, the arrangement being such that the whole of said compressive stress is transmitted between adjacent discs or wheels at their rims by the roots of the intervening row of blading and that the latter bound circumferentially a space between said discs or wheels.

2,654,566
TURBINE NOZZLE GUIDE VANE CONSTRUCTION
Winnett Boyd, Bobcaygeon, Ontario, and Joseph Thompson Purvis, Toronto, Ontario, Canada, assignors to A. V. Roe Canada Limited, Ontario, Ontario, Canada, a corporation
Application February 11, 1950, Serial No. 143,724
4 Claims. (Cl. 253—78)



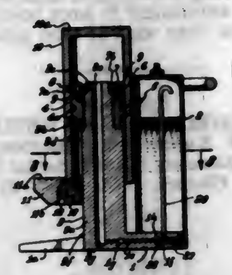
1. In an axial flow elastic fluid power conversion machine comprising a fixed outer casing structure and a fixed inner structure spaced from said casing structure and defining therewith an annular passage for the flow of fluid, a plurality of guide vanes extending generally radially between the inner structure and the outer casing structure, and having inner and outer platforms, a pin and socket connection between each of the inner platforms of the guide vanes and the inner structure, the pin being radially slidable in the socket, and the blades thereby being free for radial movement relative to the inner structure, the said connections spacing said inner platforms angularly about the axis of the machine, platform-engaging means connecting the outer platforms of the guide vanes to the outer casing structure, said platform-engaging means permitting radial expansion and contraction of the guide vanes and restraining tangential and axial displacement thereof, and an elastic clamping band resiliently encircling all the outer platforms and rendering the platforms mutually supporting against radially outward displacement when the machine is at its operating temperature.

2,654,567
PIPE PULLER
Herbert L. James, Philadelphia, Pa.
Application April 27, 1950, Serial No. 158,397
1 Claim. (Cl. 254—30)



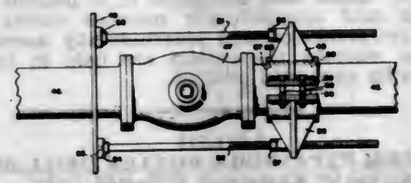
In a pipe puller, a hollow housing, a tubular screw extending through the housing and beyond the housing, the screw having a longitudinal keyway, a key in the interior of the housing engaging in the keyway in the screw and preventing the screw from turning, a clamp engaging the end of the screw and adapted to grip the pipe, a split nut surrounding the screw and having ratchet teeth on its outside, pivot means interconnecting the split nut at one side, a clamp interconnecting the split nut at the other side and ratchet turning means engaging the ratchet teeth.

2,654,568
HYDRAULIC JACK
William S. Pine, Los Angeles, Calif.
Application March 11, 1949, Serial No. 80,999
4 Claims. (Cl. 254—93)



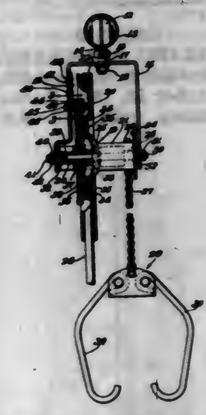
2. A hydraulic jack comprising a post provided with a piston at one end, a cylinder closed at one end and open at the other end telescopically mounted over the said one end of said post with a fluid tight sliding contact with said piston, said post having a flattened side extending from said base to said piston, said flattened side being within the periphery of said cylinder and terminating on the side of said piston closest to the other end of said post, a roller mounted on said cylinder adjacent the open end thereof engaging said flattened surface of the post whereby said cylinder will be prevented from removal from said post while the roller is in position, said roller having continuous rolling contact with said flattened surface over substantially the entire width thereof.

2,654,569
PIPE JACK AND ADAPTER
Ross J. Cooper, Toledo, Ohio
Original application September 14, 1944, Serial No. 554,139, now Patent No. 2,514,374, dated July 11, 1950. Divided and this application March 27, 1950, Serial No. 153,285
2 Claims. (Cl. 254—100)
(Granted under Title 35, U. S. Code (1952), sec. 266)



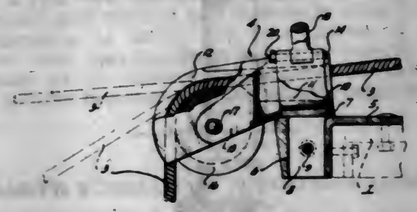
1. In a device for separating two sections of pipe comprising a clamp adapted to be fastened to a pipe, a laterally projecting arm having an aperture formed therein fixed to said clamp, a rod adapted for insertion through said aperture, screw threads cut into one end of said rod and extending throughout a portion of its length, a machined head having a plurality of flat sides formed on the periphery of the other end of said rod, means adapted to bear against a rigid support adjacent said pipe, said means comprising a round disc having a flat surface on one side and a centrally cut opening having flat sides formed on the other side of said disc for receiving the flat sided end of said rod, and a nut positioned on the screw threaded end of said rod for exerting a force against said clamp for breaking the connection between said sections of pipe.

2,654,570
MILK CAN HOIST WITH FRICTION BRAKE
John J. Veda, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application March 29, 1952, Serial No. 279,320
6 Claims. (Cl. 254—169)



1. A hand hoist comprising, in combination: a support; a shaft mounted within said support; a sheave mounted on said shaft for rotation within said support; said sheave being fashioned with a central vertical web member having opposite faces thereon, and a peripherally extending rim therearound providing a track; a winding drum extending laterally from one face of said sheave web; a flexible hoist element connected to said drum and adapted for winding about said drum during rotation of said sheave: said hoisting element extending outwardly from said drum for connection to an article to be hoisted; a friction disc mounted on the face of said web opposite that from which said drum extends; pawl and ratchet gear means mounted adjacent said sheave; said gear being adapted for rotation about said shaft, and for axial movement therealong; said ratchet gear being further arranged so that one vertical face thereof engages said friction disc; resilient means for urging the face of said gear into engagement with said disc; and means for rotating said sheave including a flexible endless belt having a portion in continual frictional engagement with said track and a portion extending below said sheave within reach of an operator.

2,654,571
UNIVERSAL SHEAVE BLOCK
Edward G. Albright, Jr., Lynwood, Calif.
Application September 29, 1952, Serial No. 312,036
3 Claims. (Cl. 254—194)



1. A universal sheave block comprising a socket having a vertically extending hole therein, a sheave body, a shank depending from said body and fitting in said hole, said body having a substantially horizontal bore therein, said body hav-

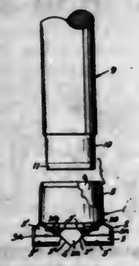
ing a slot therein opening into said bore, and latch means on the body extending over and closing said slot, a pulley, a pair of spaced side plates, a pin mounted in the side plates, said pulley being journaled on said pin, and a trunnion extending from the side plates and journaled in said bore.

2,654,572
DRILLING APPARATUS
Armais Arutunoff, Bartlesville, Okla.
Application October 15, 1949, Serial No. 121,579
5 Claims. (Cl. 255—4.8)



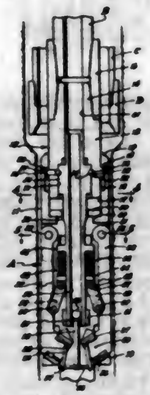
1. Submersible drilling apparatus comprising a housing suspended on a cable, a rotatable and axially movable vertical shaft extending through an aperture in the bottom of the housing, a bit on the lower end of the shaft, an enlarged head on the upper end of the shaft within the housing, stops above and below the head in said housing limiting the axial movement of said shaft, an auxiliary chamber communicating at its lower end with the space outside of the housing and communicating at its upper end with the space inside the housing, the volume of the auxiliary chamber exceeding the maximum change in volume in the housing caused by shifting of the shaft from its uppermost to lowermost position, and a prime mover in said housing connected to said shaft for rotating same.

2,654,573
DETACHABLE ROCK DRILL BIT
Griffith Annesley, Portland, Oreg., assignor to Helen Elizabeth Annesley, Portland, Oreg.
Application February 2, 1948, Serial No. 5,853
2 Claims. (Cl. 255—64)



1. A drill bit comprising a rod receiving socket having a plurality of radially disposed primary impact surfaces and a series of secondary impact surfaces disposed intermediate the primary impact surfaces at levels offset from the level of the plane that includes all of said primary impact surfaces, said secondary impact surfaces terminating short of the external side walls of said rod receiving socket and said secondary impact surfaces extending in arcs bounded at each end by a radial side wall of said primary impact surfaces.

2,654,574
EXPANSIBLE ROTARY DRILL BIT
Archer W. Kammerer, Fullerton, Calif.
Application January 9, 1950, Serial No. 137,535
14 Claims. (Cl. 255—76)



1. In a rotary drill bit: a main body; a plurality of supporting members pivotally mounted on said body; a mandrel connectible directly to a drill string and slidably splined to said body; cutters mounted on said supporting members; means movable longitudinally relative to said mandrel and connected to said supporting members for expanding said supporting members and cutters outwardly; means for moving said movable means longitudinally relative to said mandrel; an abutment on said mandrel adjacent said longitudinally movable means; said mandrel being movable longitudinally with respect to said body to locate said abutment in a position to engage said longitudinally movable means to limit retraction of said longitudinally movable means, whereby the cutters are held in their outwardly expanded position.

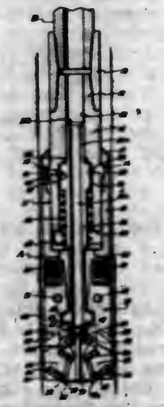
2,654,575
TANDEM EXPANSIBLE ROTARY DRILL BIT
Archer W. Kammerer, Fullerton, Calif.
Application January 9, 1950, Serial No. 137,536
8 Claims. (Cl. 255—76)

1. In rotary drill bit apparatus: a lower drill bit body; a lower mandrel slidably splined to said body; a lower supporting member mounted on said body for lateral outward movement with respect to said body; a lower cutter on said member; means for expanding said member and cutter outwardly of said body; an upper bit body secured to the upper end of said lower mandrel; an upper mandrel slidably splined to said upper body; an upper supporting member mounted on said upper body for lateral outward movement with respect to said upper body; an upper cutter on said upper supporting member; means for expanding said upper member and upper cutter outwardly of said upper body to a greater extent than said lower cutter; said upper cutter being disposed entirely inwardly of the outermost surface of said upper supporting member until said upper supporting member has been expanded



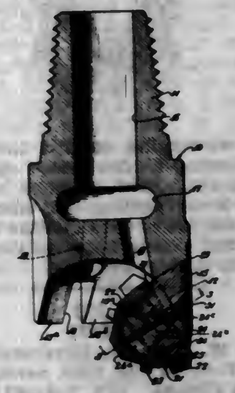
partially outwardly, whereby said upper cutter is prevented from penetrating the formation until it has been lowered into the enlarged bore produced by the lower cutter.

2,654,576
EXPANSIBLE ROTARY DRILL BIT
Archer W. Kammerer, Fullerton, Calif.
Application August 18, 1950, Serial No. 180,168
9 Claims. (Cl. 255—76)



1. In a rotary well drilling bit: a main body; cutter means mounted on said body; a mandrel slidably splined to said body and adapted for connection to a drill string; means engaging said cutter means for expanding said cutter means laterally outward independently of movement of said mandrel along said body; retainer means on said mandrel movable in one longitudinal direction along said body into holding engagement with said cutter means for preventing inward movement of said cutter means from its outward expanded position; said retainer means and cutter means having portions contactable with each other, prior to full lateral outward movement of said cutter means, to preclude location of said retainer means in holding engagement with said cutter means, said contactable portions, when in contact with each other, being positioned relative to each other such that the resultant force exerted between the portions extends in a direction parallel to the axis of said mandrel, whereby said contacting portions do not urge said cutter means outwardly.

2,654,577
DRILL BIT
William G. Green, Dallas, Tex., assignor to Engineering Laboratories, Incorporated, Tulsa, Okla., a corporation of Oklahoma
Application September 26, 1947, Serial No. 776,314
2 Claims. (Cl. 255—304)

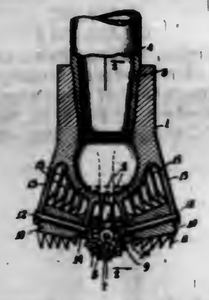


1. A drill bit comprising a head portion, a fork extending from said portion, a spindle head member secured to said fork at one end, a threaded section at the opposite end of said spindle head member, a spindle member including a frusto-conical head, a threaded section, and a shank forming a reduced portion of the outer end of the spindle member and adapted when assembled to extend substantially through an opening in the spindle head to the outer side of said head, a tightening tool slot in the end of said shank, said spindle head member threaded section engaging said spindle member threaded section by utilizing said tightening tool slot, a lubricating fitting positioned on the end of said shank, a longitudinal conduit in said spindle member leading from said lubrication fitting to the apex of said frusto-conical head, said spindle member defining a continuous bearing surface, said spindle head member defining a continuous bearing surface, said members defining therebetween a peripheral groove, a cutter cone mounted for relative rotation with said members, said cutter cone and spindle member being removable as a unit from said spindle head member, said cutter cone defining inner bearing surfaces complementary to the bearing surfaces of said members, and a groove in registry with said peripheral groove, and a ring bearing means located between said members and lying in said grooves in close fitting relationship to absorb the axial thrust of said cutter cone and to act as a seal to restrict the passage of oil between the bearing surfaces of the spindle member and the spindle head member.

2,654,578
EARTH FORMATION DISINTEGRATING DRILL
William L. Pearce, Houston, Tex.
Application November 28, 1949, Serial No. 129,817
2 Claims. (Cl. 255—308)

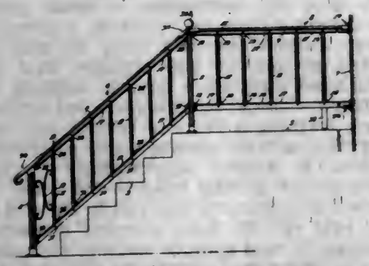
1. An earth formation disintegrating drill comprising, a head having a substantially hemi-

spherical lower portion formed with passageways in communication with the interior of the head and leading to the exterior thereof, disintegrating roller cutters transversely of the head and mounted beneath the head peripheral teeth on



the cutters converging toward the axis of the head and cleaning blades whose upper ends are formed with outturned portions shaped to fit against said lower portion and anchored to the head and whose lower ends diverge from the axis of the head and extend between the teeth of the cutters, as the cutters rotate.

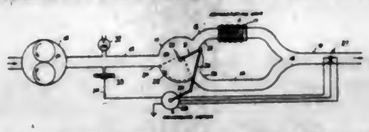
2,654,579
RAILING
Leroy W. Cremens, Pittsburgh, Pa.
Application February 25, 1950, Serial No. 146,224
6 Claims. (Cl. 256—21)



1. A railing structure including a rail and a plurality of balusters secured thereto in longitudinally spaced relation, said rail comprising an extruded metal section having two longitudinally extending flanges spaced apart transversely of the rail body, formed with an outstanding rib portion of dove-tail cross section extending longitudinally on the internal face of each flange the end of each baluster secured to said rail having a shoulder and a threaded stem portion extending therefrom and equipped with a washer and a nut formed with edge portions to engage said dove-tail rib portions above and below, said washer element abutting said shoulder and said nut being in threaded engagement with said threaded stem, whereby, by rotating said baluster, the nut and washer are drawn into tight engagement with the dove-tail rib portions of said flanges.

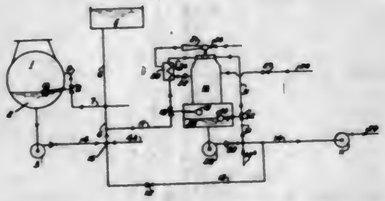
2,654,580
TEMPERATURE CONTROL OF AIR SUPPLY SYSTEMS
George Edward Shaw, Toronto, Ontario, Canada, assignor to A. V. Roe Canada Limited, Peel County, Ontario, Canada, a corporation
Application June 22, 1950, Serial No. 169,738
6 Claims. (Cl. 257—3)

1. An air supply system comprising a compressor, a main conduit extending from the compressor to an outlet, a cooling element for cooling the air in said main conduit, a by-pass conduit by-passing the portion of the main conduit having the cooling element, the resistance to the flow of air offered by the by-pass conduit being substantially less than that offered by the by-passed portion of the main conduit whereby air will normally flow through the by-pass conduit, a combined selector and choke valve located in series in the main conduit intermediate the compressor



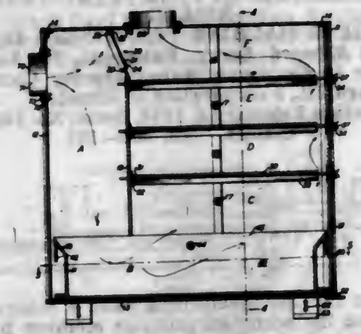
and the cooling element, the said valve comprising a casing containing a chamber having an inlet port and an outlet port from and to the main conduit respectively and a second outlet port to the inlet end of the by-pass conduit, shutter means pivotally mounted in the chamber and adapted variably and alternately to obstruct the said inlet port and the said second outlet port, and means for selectively operating said shutter means.

2,654,581
CLOSED FEED SYSTEM FOR STEAM POWER PLANTS
Harold Hillier, Glasgow, Scotland, assignor to G. & J. Weir Limited, Glasgow, Scotland, a corporation of Great Britain and Northern Ireland
Application March 20, 1951, Serial No. 216,491
In Great Britain May 11, 1950
9 Claims. (Cl. 257—24)



1. A closed feed system for a boiler installation including a condenser for condensing the steam generated in the boiler, a deaerator for deaerating the feed water for the boiler, means including a conduit and a condenser pump therein for conducting condensate from the condenser into the deaerator, a boiler feed water pump, means including a conduit and a deaerator extraction pump therein for conducting deaerated feed water from the deaerator to the inlet of the boiler feed pump, an external feed water tank arranged to supply feed water at a superatmospheric pressure, piping connecting the external feed tank with the conduit connected to the inlet of the boiler feed water pump for supplying water to the boiler feed water pump if the deaerator extraction pump should fail, a non-return valve in said piping, said deaerator extraction pump having a discharge pressure substantially in excess of the pressure on the water in the piping from the feed water tank, whereby feed water is normally supplied to the boiler feed pump only by the deaerator extraction pump, a valve-controlled conduit for conducting water from the feed tank into the condenser, pipe means for conducting condensate from the condenser pump into said valve-controlled conduit up-stream of the valve therein, and control means operatively associated with the condenser extraction pump and the deaerator extraction pump adapted to maintain a substantially constant flow of water through said extraction pumps at substantially predetermined constant discharge pressures at the discharge outlets of said extraction pumps.

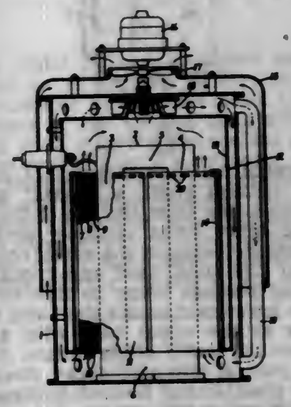
2,654,582
HEAT EXCHANGER AND ASH COLLECTOR APPARATUS
Harold D. Fox, Pontiac, Mich.
Application July 28, 1949, Serial No. 107,190
4 Claims. (Cl. 257—172)



1. A heat conserving and ash-collecting device for attachment between the exhaust port of a furnace and a chimney flue comprising a substantially airtight, vertically extending casing, a vertical partition in said casing extending short of the bottom of said casing to provide a downwardly extending vertical passage and an upwardly extending vertical passage, said passages communicating at their lower ends, an inlet port in said downwardly extending passage and an exhaust port in said upwardly extending passage, a plurality of horizontally extending baffles positioned at various levels in the upwardly extending passage and having their peripheries spaced from the walls of the passage for directing hot gases against the walls and for collecting ashes thereon, manually settable means for positioning and holding said baffles at desired angles to the horizontal for varying the peripheral spacing of the baffles from the walls of the casing and automatically operable means for dumping the ashes from the baffles comprising, means for pivoting the baffles off center so that a major area of the baffles is on one side of the pivot axis and a minor area is on the other side and means for normally maintaining the major area of the baffles and the minor area of the baffles in balanced relation, whereby after a substantial amount of ashes have collected on the baffles they will become unbalanced in favor of the portion having the major area, thus causing them to pivot downwardly discharging the ashes.

2,654,583
AIR-COOLED TRANSFORMER
Edward D. Treaner, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application October 12, 1949, Serial No. 121,013
1 Claim. (Cl. 257—191)

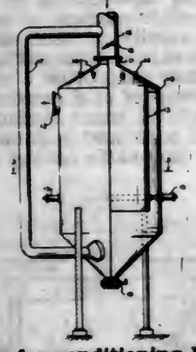
A cooling means for an apparatus contained within an encasing means comprising a motor mounted adjacent said encasing means, a shaft turned by said motor, two sets of fan blades displaced axially from one another on said shaft, a hood enclosing said encasing means but spaced therefrom to form a shallow chamber about said encasing means, said hood having openings for the entrance and exit of atmospheric air, one of said sets of fan blades being positioned within said chamber to circulate air in said chamber, said second set of fan blades being positioned interiorly of said encasing means to circulate a gaseous cooling fluid within said encasing means, a double-walled baffle positioned between the interior wall surface of said encasing means and the exterior surface of said apparatus, said baffle having a radially outer axially-extending wall conforming substantially to the shape of the axially-extending inner wall surface of said encasing means and extending for a substantial part of the length thereof but being displaced from said axially-extending inner wall surface sufficiently to provide a shallow first duct for the passage of said gaseous cooling fluid, said baffle having a radially inner wall substantially conforming in shape to the portion of the outer surface of said apparatus which extends axially of said encasing means but displaced from said outer surface of said apparatus sufficiently to provide a shallow second duct for the passage of said gaseous cooling fluid between the radially inner surface of said inner wall of said baffle and said outer surface of said apparatus, said baffle having a first radial-



ly extending wall portion adjacent but displaced from an end of said encasing means, said first radially extending wall portion joining together said radially inner and outer axially-extending walls of said baffle to restrain passage of cooling fluid between said inner and outer walls of said baffle, the spaced arrangement of said first radially extending wall portion from the adjacent end of said encasing means permitting fluid flow between said first and second ducts at said end of said encasing means, said baffle having a second radially extending wall portion axially displaced beyond the end of said apparatus and adjacent but displaced from an opposite end of said encasing means, said second radially extending wall portion being attached to said radially outer wall of said baffle and enclosing the area defined by said outer wall, said second set of fan blades being positioned between the axially outer surface of said second radially extending wall portion and the end wall of said encasing means, said second radially extending wall portion being apertured adjacent said second set of fan blades to permit passage of said gaseous cooling fluid to said second set of fan blades from said second duct, said second set of fan blades providing a circulation of said gaseous cooling fluid in a series path comprising said first and second ducts,

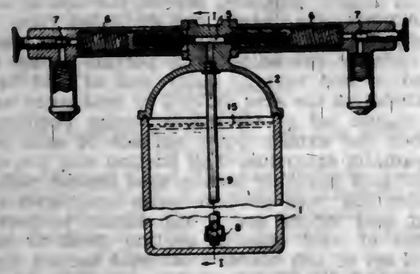
and axially extending radiating tubes within said chamber, one end of said radiating tubes connected to said encasing means axially between said second radially extending wall portion and the adjacent end of said encasing means, and the other end of said tubes connected to said encasing means axially between said first radially extending wall portion and the adjacent end of said encasing means, said second set of fan blades providing circulation of said gaseous cooling fluid through said tubes.

2,654,584
GAS COOLING CONTACT APPARATUS
Carl W. J. Hedberg, Bound Brook, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New Jersey
Application September 29, 1950, Serial No. 187,629
2 Claims. (Cl. 261—11)



1. Apparatus for conditioning hot gases, comprising a vertical shell, a coaxial inner skirt member depending from the top of the shell and defining an inner spray chamber and an outer annular passage between the spray chamber and the wall of the shell, said spray chamber and said annular passage being in free communication with a lower part of the shell and each communicating at the upper part with a gas-conducting conduit, water spray means disposed in the upper part of the said spray chamber, and means for establishing flow of hot gas through said spray chamber and annular passage by way of said conduits, and means for directing a portion of the hot gas directly to the bottom of the shell.

2,654,585
APPARATUS FOR PREPARING FOAM-LIKE SUBSTANCES SUCH AS WHIPPED CREAM
Leonardus Bernardinus Heesen, Amsterdam, Netherlands
Application October 11, 1950, Serial No. 189,634
In the Netherlands July 19, 1950
3 Claims. (Cl. 261—19)



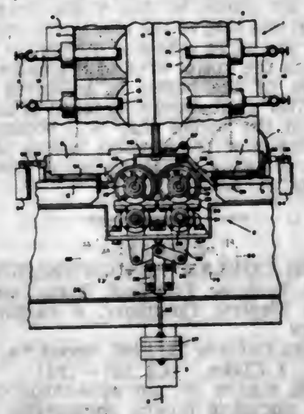
1. An apparatus for mixing and delivering a foamy substance such as whipped cream comprising a closed vessel, a compressed gas supply pipe discharging into said vessel, an ascending vertical pipe for the liquid contained in said vessel which reaches approximately to the bottom of said vessel, a duct interconnecting said vertical pipe and a mixing member with an associated discharge cock, a conduit with a restricted inlet-port interconnecting the inner space of the vessel above its liquid contents and the said duct, a non-return valve in the vertically placed pipe near its lower end and a non-return valve in the conduit between its restricted inlet port and its discharge end.

2,654,586
DIGGING MACHINE FOR MINING COAL
Charles Edward Berry, Fairmont, W. Va., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application February 4, 1950, Serial No. 142,489
8 Claims. (Cl. 262—19)



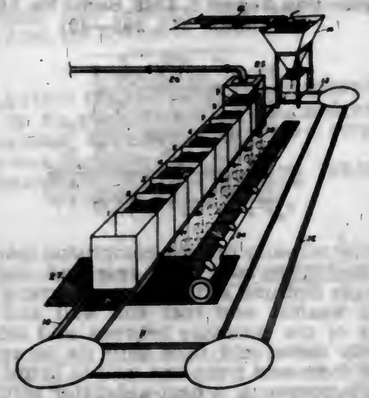
1. In a digging machine, a base, a rotary digging head including an annular member having a plurality of peripherally mounted, radially extending digging members thereon for engagement with a working face, means yieldably supporting said annular member on said base, power means on said base operatively connected through said yieldable supporting means for rotating said annular member, an off-center weight mounted on and coaxial with said annular member for rotation independently thereof, and power means for driving said off-center weight at a speed different from said annular member to impart vibratory motion to the latter.

2,654,587
ROLL SEAL
Kristian Skivesen, Flourtown, Pa., assignor to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania
Application May 18, 1950, Serial No. 162,760
13 Claims. (Cl. 263—3)



1. The combination of structure forming a first treating chamber, structure forming a second treating chamber, the entrance of the second chamber adjoining the exit of the first, and means to seal one of said chambers from the other comprising a pair of rolls, means to mount said rolls for rotation between said chambers in the exit of the first and the entrance of the second, said mounting means including a pivotal support located adjacent to said structures for each of said rolls whereby said rolls can move bodily toward and from each other, sealing means between said first mentioned structure and each of said rolls, and sealing means between said second mentioned structure and each of said rolls.

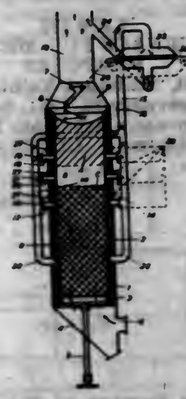
2,654,588
HEAT-TREATMENT OF MATERIALS
Francis Paul Semogyi, London, England
Application April 26, 1950, Serial No. 158,107
In Great Britain January 6, 1950
24 Claims. (Cl. 263—28)



1. An arrangement for the heat-treatment, i. e. burning, sintering, calcining and the like, of raw materials, particularly cement raw material mixed with solid fuel, comprising several vertical kilns of a height not exceeding about 4 metres and intended to be loaded with shapes, briquettes or granules of a small size (as specified), a loading station, one or more heat-treatment stations, in which the heat-treatment is started at the top in timed relationship and the reaction zone gradually progresses downwardly in each kiln until it reaches the bottom of the respective kiln, a drawing station, means adapted to move the kilns along a closed path step by step through said loading station, through the heat-treatment station or stations, through the drawing station and back to the loading station, a hood registering with the upper opening of the kiln in the first station succeeding the loading station, a suction box registering with the lower opening of the kiln in which the reaction zone has progressed to adjacent the bottom of the kiln, and a pipe connected on the one hand to said hood and on the other hand to said suction box.

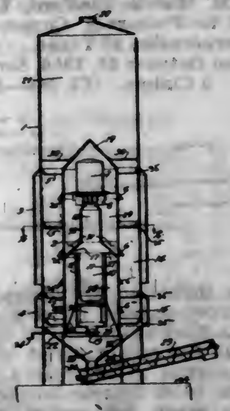
2,654,589
CONSTRUCTION AND OPERATION OF VERTICAL SHAFT FURNACES
Francis Paul Semogyi, London, England
Application November 16, 1949, Serial No. 127,754
In Great Britain November 17, 1948
6 Claims. (Cl. 263—29)

6. In a vertical shaft cement kiln of the type comprising charging means for supplying nodules or briquettes containing cement forming material and solid fuel to the upper end of the kiln and air supply means for supplying an ascending air blast through said kiln from the lower end of the kiln to establish a preheating zone in the upper part of the kiln, a cooling zone in the lower part of the kiln and a combustion zone intermediate said preheating and cooling zones and directly adjacent thereto, outlet means for combustion gases at the upper end of the kiln above said preheating zone and discharge means for the clinker at the lower end of the kiln, the provision of means for supplying said air blast in an amount in excess of the air needed for adequate combustion of said solid fuel in said combustion zone, of at least one



adjustable outlet passage arranged peripherally at the upper end of said cooling zone for discharging an adjustable part of the blast of air from the periphery of the cooling zone adjacent the combustion zone, whereby the cooling of the material in the cooling zone is accelerated and a substantially uniform depth of the combustion zone is obtained and of inlet means arranged peripherally of said preheating zone and connected to said outlet passage, whereby said adjustable part of the blast of air is bypassed around and prevented from passing through said combustion zone.

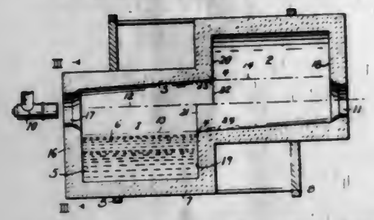
2,654,590
GRAIN DRIER
Lester V. Molenaar, Lake Lillian, Minn.
Application March 26, 1951, Serial No. 217,470
9 Claims. (Cl. 263—30)



1. In a grain drier, an inner cylinder, an outer cylinder, a plurality of stirring flanges attached to the outside of said inner cylinder, a plurality of stirring flanges attached to the inside of said outer cylinder, a first opening in said inner cylinder directly under one of said first mentioned

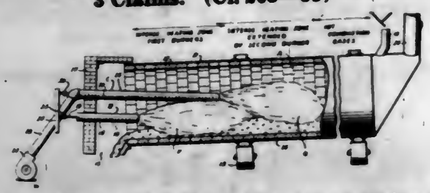
flanges, a second opening in said outer cylinder directly under one of said second mentioned flanges, a burner having combustion gases secured in the center of said inner cylinder, means for passing a column of grain at a predetermined rate between said inner cylinder and said outer cylinder over said stirring flanges, and a blower for drawing air past said burner, and forcing said air and said gases through said first opening, said column of grain, and out said second opening.

2,654,591
TURNING FURNACE FOR METALLURGICAL PURPOSES
Peter Schmidt, Stuttgart-Vaihingen, Germany
Application February 20, 1951, Serial No. 211,912
In Germany November 29, 1948
2 Claims. (Cl. 263—32)



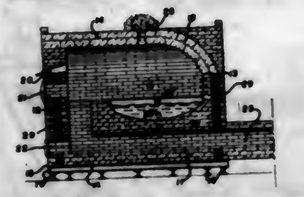
1. A turning furnace of the class described, comprising: a pair of horizontally elongated furnace chambers having substantially parallel longitudinal axes, said chambers being disposed for rotation about a common generally horizontal axis passing through the interiors of both of said chambers, said parallel axes being diametrically disposed on opposite sides of said common axis and spaced at substantially equal distances therefrom, said chambers having central interior end wall surfaces lying in spaced parallel planes substantially perpendicular to said common axis and in proximity to the middle thereof, each chamber having a lateral surface extending beyond its own central end wall surface to the end wall surface of the other chamber.

2,654,592
FURNACE
Lawrence M. Harris, Stafford, Tex., assignor of one-half to Foamrock Corporation, Stafford, Tex., a corporation of Texas
Application October 25, 1950, Serial No. 192,066
3 Claims. (Cl. 263—33)



1. A kiln including an elongate housing circular in cross-section forming a longitudinal chamber, an inlet at one end of the chamber and an outlet at the opposite end of said chamber, whereby material to be treated and introduced through the inlet travels longitudinally of the chamber to reach said outlet, a first elongate burner having its outlet end adjacent to the outlet end of the chamber for creating an intense heating zone which extends longitudinally within the chamber nearer its outlet end, means for mounting said first burner at an angle to the longitudinal axis of said chamber for directing the flame therefrom downwardly against the bottom wall surface of said chamber, a second elongate burner spaced vertically above said first burner and extending through the longitudinally heating zone created by the first burner and having its outlet end disposed within the extremity of the heating zone of the first burner whereby the intense heating zone created by the second burner forms an extension of said first heating zone, and means for mounting said second burner at substantially the same angle as said first burner whereby the material being treated is subjected to substantially the same intense heat by said second burner as by said first burner.

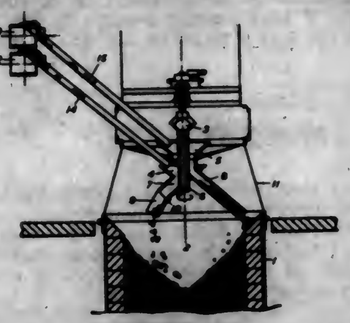
2,654,593
REVERBERATORY FURNACE
Dee A. Knight, Lawson, Colo.
Application August 6, 1949, Serial No. 109,620
1 Claim. (Cl. 263—40)



A reverberatory furnace comprising marginally conjoined floor, roof, side, rear end, and front end walls defining a furnace enclosure, a hearth closing against said rear end wall and transversely of the enclosure between said side walls spacedly above said floor with its forward end spaced from said front end wall to define a passage therebetween, a heat-generator serving the upper portion of said enclosure through said front end wall, whereby to establish and maintain a reversed, two-pass flow of heat longitudinally of and above said hearth between said generator and the passage at the forward end of the hearth, a flue outlet serving the lower, rearward portion of said enclosure beneath said hearth, whereby to entrain the flow of heat forwardly along and above the hearth through the passage at the hearth forward end and as a third pass longitudinally of and beneath the hearth, and means for feeding material to be processed to said hearth through the heat travel path of the enclosure thereabove, wherein the hearth upper surface is concaved as a reservoir for the retention of molten material, and said concavity is served by altitudinally-spaced flow outlets for the selective recovery of its contents.

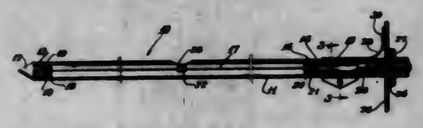
2,654,594
OPERATION OF VERTICAL SHAFT FURNACES
Francis Paul Somogyi, London, England
Application November 16, 1949, Serial No. 127,753
In Great Britain November 17, 1948
4 Claims. (Cl. 263—53)

1. The method of operating vertical shaft furnaces comprising the steps of introducing at the top of the shaft near the center axis thereof a prepared mixture of cement-forming solid material to be treated and of solid fuel, introducing concurrently at the top of the shaft at least near the wall thereof another prepared mixture of similar material to be treated and solid fuel, the relative fuel content of the latter mixture being greater than the relative fuel content of said first mixture, passing said mixtures downwardly through the reaction zone of the shaft in substantially parallel streams in counter-current to an ascending air-blast wherein the material is



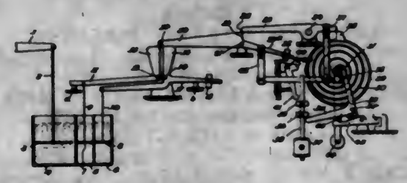
heat-treated, and removing the solid reaction products from the bottom of the shaft.

2,654,595
VIBRATION INDICATING INSTRUMENT
William H. Harstick, Oak Park, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application July 31, 1951, Serial No. 239,585
6 Claims. (Cl. 264—1)



2. A vibration indicator comprising an elongated tube having at one end a contact point, an adjustable support slidably supported in said tube adjacent a second end, a screw on said adjustable support, a flexible wire element connected at one end to the first end of said tube, means connecting the opposite end of said wire element to said adjustable support, a weight supported on said wire intermediate its ends, an observation window in said tube adjacent said weight, and a rotatable element on said tube, said rotatable element having a portion in threaded engagement with the screw for varying the tension in said wire element, said wire element being sympathetic to the vibrations resulting from a rotating shaft whereby a maxium amplitude of vibration takes place in said wire and weight during a predetermined tension in said wire.

2,654,596
CONTROL DEVICE FOR THE RECORDING MECHANISM OF WEIGHING APPARATUS
Adrianus van Duyn, Hillegersberg, Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, Inc., a corporation of Indiana
Application August 2, 1947, Serial No. 765,668
In the Netherlands September 24, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires September 24, 1961
10 Claims. (Cl. 265—5)



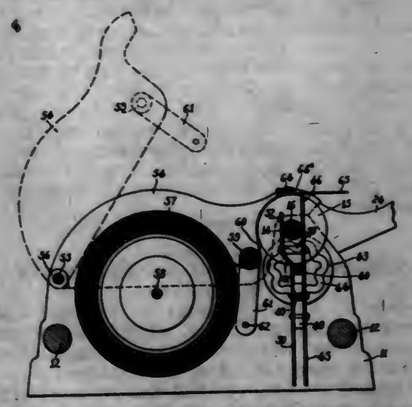
8. A control device for the recording mechanism of a weighing apparatus, said device embodying a motor adapted to drive the recording mechanism, trigger mechanism operating to maintain the motor against driving action during weighing movement of the weighing apparatus, and trigger release means including a pair of fluid actuated sector arms operatively associated with said trigger mechanism and operable in response to movement of the weighing apparatus to release said trigger mechanism when the weighing apparatus attains equilibrium, whereby said motor will be rendered active to drive the recording mechanism, and means responsive to the operation of the motor for resetting the trigger mechanism.

2,654,597
LEAF SPRING FOR MOTOR VEHICLES
Béla Barényi, Stuttgart-Rohr, Germany
Application January 6, 1950, Serial No. 137,959
In Germany January 8, 1949
3 Claims. (Cl. 267—47)



1. A vehicle suspension comprising: a leaf spring having a widened central zone and lateral edges converging V-like toward one another, a supporting member for said leaf spring on the suspended part of the vehicle, said supporting member having a recess conforming to the shape of the widened central zone of said leaf spring whereby the leaf spring, when inserted with its widened central zone in said recess, is secured against displacement in its plane, and a connecting member fastened to said supporting member and securing said leaf spring against vertical movement perpendicular to the plane of said leaf spring.

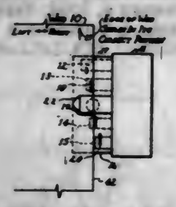
2,654,598
TAPE-DISPENSING DEVICE
Alfred P. Krueger, Stratford, Conn., assignor to Derby Sealers, Incorporated, Derby, Conn., a corporation of Connecticut
Application July 12, 1946, Serial No. 683,243
11 Claims. (Cl. 271—2.4)



1. In a machine for feeding pressure-sensitive tape, feeding means including a tape-advancing member to which the tape adheres, means to ac-

tuate said member to effect feeding of the tape, a vibratory stripping member to intermittently engage the tacky side of the tape and strip it from said feeding means, cooperating means on said stripping member and frame for slidably mounting the member on the frame and guiding it in a substantially straight-line path, and means for actuating said stripping member.

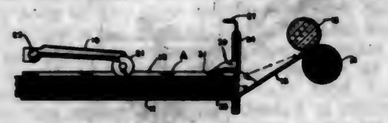
2,654,589
SIDE REGISTRATION CONTROL DEVICE FOR MOVING WEBS
Stewart Edwin Frisbie and William Owen Smiley, Danville, Ill., and Joseph C. Frommer, Cincinnati, Ohio, assignors to Electric Eye Equipment Company, Danville, Ill., a corporation of Delaware
Application June 27, 1949, Serial No. 101,646
2 Claims. (Cl. 271—2.6)



1. In a device for correcting the variance in the lateral displacement of a longitudinal moving web from a predetermined position, the improvement comprising a photoelectric scanning device positioned along one edge of said web having a light source positioned on one side of the web and phototubes with light shield positioned on the opposite side of said web, said light shield positioned in respect to said light source and said web such that when said web is in its predetermined lateral position some of said phototubes are in light and some in shadow, with those in shadow positioned in spaced increments in one direction away from said edge of said web and those in light positioned in spaced increments in the opposite direction from said edge, a control circuit comprising amplification means for each of said phototubes and having a plurality of relays operated under control of said phototubes such that as the web changes in amount of deviation in one direction from its predetermined position a portion of said relays is operated continuously and one other of said relays is operated intermittently, and when said web deviates further from its predetermined position said one of said relays is operated continuously, means for moving said web laterally controlled by said relays, said relays causing pulses to pass through said control circuit when said relays are controlled by the phototubes adjacent the edge of the web in its predetermined position thereby periodically operating said lateral moving means, and said relays causing said control circuit to operate continuously with resulting continuous operation of said web moving means when said relays are controlled by the phototubes farther removed from the edge of said web.

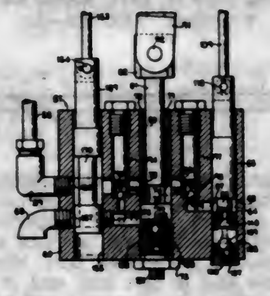
2,654,600
STRIPPER PIN FOR SHEET FEEDING MACHINES
Mustafa J. Ajam, Amherst, N. H., and Carl A. Bergman, Melrose, Mass., assignors to Standard Duplicating Machines Corporation, Everett, Mass., a corporation of Massachusetts
Application July 14, 1950, Serial No. 173,774
4 Claims. (Cl. 271—18)

1. The stripper pin for machines in which the sheets of a pack of sheets are fed one by one from the top which includes in combination a member slidable vertically in a fixed portion of the machine adjacent the side of the pack, a portion of said member resting on the top sheet of the pack at a point in the rear of the leading



edge of the sheet, and a flexible blade carried by the vertically sliding member and located in contact with the front face of the pack, the top edge of the flexible blade being slightly above the point of contact of that portion which rests on the top sheet of the pack.

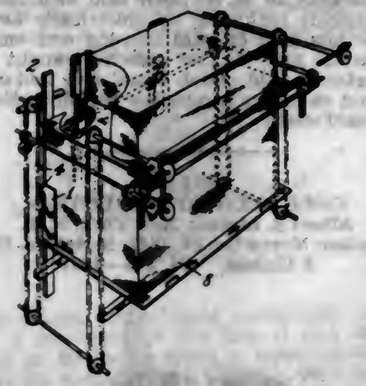
2,654,601
PILE ELEVATOR
Lee C. Williams, Pearl River, N. Y., assignor to Dexter Folder Company, Pearl River, N. Y., a corporation of New York
Application February 6, 1948, Serial No. 6,721
8 Claims. (Cl. 271—62)



1. In apparatus of the type having means for supporting a pile of sheets to be fed one after another from the top thereof, and hydraulic mechanism including a cylinder for elevating said pile supporting means, the combination of a receptacle adapted to contain a supply of fluid, pump means in said receptacle for supplying said fluid into said cylinder, valve means in said receptacle and submerged in the fluid therein, said valve means being movable to one position to enable delivery of said fluid into said cylinder by said pump means and movable to another position to interrupt said delivery of said fluid into said cylinder, pile engaged means controlling the operation of said valve means, other valve means in said receptacle and submerged in the fluid therein, said other valve means being movable to one position to permit said delivery of said fluid under pressure into said cylinder and movable to another position to simultaneously connect both said cylinder and said pump means with said fluid supply, and means for moving said other valve means.

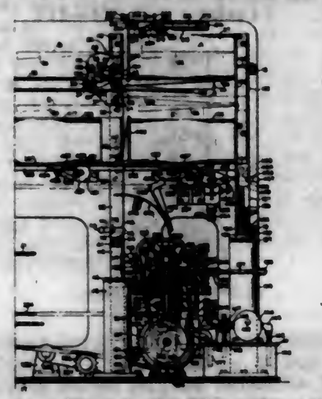
2,654,602
SHEET-SUPPORTING MACHINE
Headley Townsend Backhouse, Sunningdale, England
Application August 15, 1951, Serial No. 242,013
In Great Britain August 18, 1950
8 Claims. (Cl. 271—62)

1. In a pile elevating mechanism for use in elevating a pile of sheets to a sheet separating machine having means for removing the sheets from the top of the pile, which mechanism includes a pile-board for supporting the pile of sheets, and means for elevating the pile-board with a pile of sheets thereon through a vertical path upwardly from a pile-loading station; an upwardly extending side gauge for locating the side edges of the sheets on the pile-board, said side stacking gauge seating on the pile-board



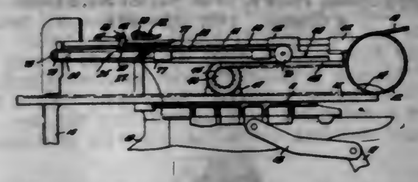
when the board is at the loading station, a fixed support outside the path of the pile-board, and means attaching the side gauge to the support and holding the side gauge in its upright attitude, which means permit upward movement of the side gauge with the pile-board and constrains the side gauge during such upward movement bodily to move laterally out of the path of the pile-board.

2,654,603
PILE ELEVATOR
Lee C. Williams, Pearl River, and Norman H. Runge, Orangeburg, N. Y., assignors to Dexter Folder Company, Pearl River, N. Y., a corporation of New York
Application October 12, 1946, Serial No. 703,006
28 Claims. (Cl. 271—62)



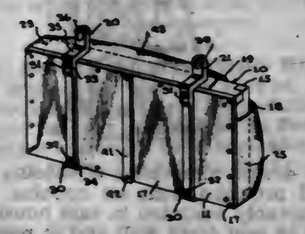
1. In apparatus of the character described, means for supporting a pile of sheets in position for removal of the sheets one after another from the top thereof, means mounting said supporting means for horizontal movement out of pile supporting position, actuating means for moving said supporting means out of pile supporting position, normally ineffective power means for operating said actuating means, elevator means for supporting and elevating a new pile of sheets to the bottom of the first pile to replenish the latter as sheets are removed from the top thereof, and means engaged by the top of the elevated new pile when the latter reaches the level of the bottom of the first pile for rendering said power means effective to operate said actuating means and move said first-named supporting means out of pile supporting position whereby the remainder of said first pile is deposited on and combined with said new pile.

2,654,604
SHEET DELIVERY MECHANISM
John W. Clay, Winston-Salem, N. C., assignor to American Type Founders, Inc., a corporation of New Jersey
Application March 16, 1951, Serial No. 216,010
10 Claims. (Cl. 271—85)



1. Sheet delivery mechanism for sheet handling or treating machines such as high speed printing presses and the like, said mechanism comprising delivery grippers for drawing successive sheets in a substantially horizontal plane from the machine, means for causing said delivery grippers to release said sheets at a predetermined point in their travel, while said grippers are above a point of deposit of said sheets, positively acting stripper means disposed adjacent said point of deposit and comprising a transverse rock shaft having at least one stripper tongue extending rearwardly therefrom toward the leading edge of the sheets, a cam surface rigid with said stripper tongue and adapted to be contacted and depressed by a portion of said gripper device at a point following the release of the sheet, whereby said stripper tongue is swung downwardly in contact with the sheet to propel the latter toward said point of deposit at a faster rate than would be afforded by the force of gravity alone.

2,654,605
BOWLING ALLEY BUMPER WITH HANGER MEANS
Albert R. Hackert, St. Paul, Minn.
Application March 13, 1951, Serial No. 215,265
4 Claims. (Cl. 273—53)



1. The combination with a bowling alley bumper comprising a rectangular wooden frame, a rigid backing covering the back face of the frame and forming with the latter an open recess, a flexible cover extending over the front face of the frame and covering the open recess and secured to the frame, and a filler of padding material interposed in the open recess and in back of the flexible cover, of a hanger means for suspendingly supporting said bumper, said means

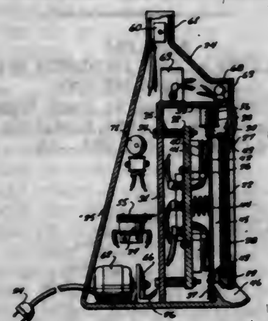
comprising a pair of spaced brackets arranged exteriorly and transversely of said backing and embracingly engaging said frame and fixedly secured to the latter, and an eye member projecting from the end of each of said brackets adjacent the top of said frame for receiving a hook carried by a supporting surface.

2,654,606
LAMINATED BOWLING PIN
Joseph L. Stearns and Charles H. Hoffman, Laurel, Md., assignors, by mesne assignments, to American Machine & Foundry Company, New York County, N. Y., a corporation of New Jersey
Application June 8, 1948, Serial No. 31,685
4 Claims. (Cl. 273—82)



1. A bowling pin comprising a core, a plurality of laminated compreg covering members adhesively attached to and enclosing an intermediate portion of said core, and with said core forming the bulge portion of said pin, said laminated compreg covering members each having a lamina having an uncompregged inner face, and adhesive securing said face to said core.

2,654,607
PUNCHBOARD GAME DEVICE
Vernon K. Smith, Boise, Idaho
Application March 27, 1950, Serial No. 152,018
1 Claim. (Cl. 273—139)



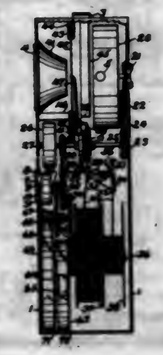
A game device comprising a housing having a front wall provided with an opening, a punch board removably mounted in said housing at the inner side of said front wall and in registry with said opening and having punches therein selectively movable out of said punch board and inwardly of said housing, a contact plate resiliently suspended in said housing adjacent and substantially parallel to the side of said punch board disposed inwardly of said housing and movable away from said punch board by punches punched from said punch board, a support plate fixedly mounted in said housing adjacent and substantially parallel to the side of said contact plate remote from said punch board, normally open resilient switches mounted in spaced apart relationship on said support plate at the side of the latter adjacent said contact plate and closed at random by said contact plate when the latter is moved away from said punch board, and an electric signal circuit including said switches in parallel and signal devices in series with said switches, said signal circuit including an electrically actuated vibrator mounted on said housing and engaging said contact plate to free punches caught in the space between said punch board and said contact plate and cause such punches to fall to the bottom of said space.

2,654,608
GOLF CLUB CONSTRUCTION
Albert S. Liebers, New York, N. Y.
Application November 16, 1949, Serial No. 127,618
4 Claims. (Cl. 273—169)



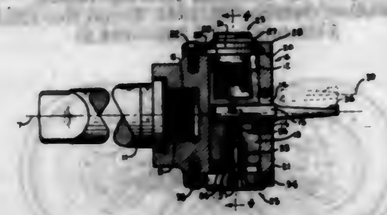
3. A golf club comprising a body of laminated resin-impregnated wood and a weight entirely enclosed within said body, the body being penetrated by a handle and its exterior surface being a continuous resin-impregnated wood surface, the weight extending transversely of said body and fitting tightly in a cavity in said body.

2,654,609
DICTATION MACHINE
Judson O'D. Shepherd, Atlanta, Ga.
Continuation of application Serial No. 451,904, July 22, 1942. This application June 15, 1949, Serial No. 99,241
7 Claims. (Cl. 274—11)



1. A dictation machine including a long flexible medium upon which a record of sound waves may be made, a pulley around which a portion of said medium is looped to be driven through frictional engagement by said pulley, means connected to said pulley to drive it, a diaphragm responsive to sound waves, a recording member operatively connected to, and driven by, said diaphragm to engage said medium at a point on said pulley to make a record of sound waves on said medium as said medium is being driven, a resilient mounting for said pulley tensioned toward said recording member, and limiting means operatively connected to said pulley to provide predetermined normal engagement of said medium by said recording member.

2,654,610
OFFSET BORING HEAD
Howard R. De Vlieg, Grosse Pointe Woods, Mich.
Application May 10, 1950, Serial No. 161,091
5 Claims. (Cl. 279—8)



1. An off-set boring head comprising a body having a mounting or the like at one end for rotation of the body about a longitudinal axis and having a cylindrical through bore of uniform diameter from end to end the axis of which is perpendicular to and intersects said axis of rotation, the body at each end of said bore being machined flat in a plane perpendicular to the axis of the bore to provide a flat surface at each end of such bore, a fully cylindrical tool slide fitting in said bore for sliding movement lengthwise therein, means coacting directly between the body and the tool slide to prevent rotative movement of the tool slide in said bore, a dial adjusting screw threaded in one end of the tool slide coaxial therewith and having a shoulder seating against the adjacent said flat surface to provide thrust engagement with the body, a lock screw threaded in the opposite end of the tool slide coaxial therewith and having a shoulder seating against the adjacent said flat surface to provide thrust engagement with the body, said thrust engagements being on opposite sides of the body and against said flat surfaces so that tightening of the lock screw will clamp the lock screw and the adjusting screw to the interposed body and will also lock the tool slide in the axial position in the bore to which it has been set by the dial adjusting screw, the tool slide having a tool-receiving socket on an axis substantially parallel with the axis of rotation of the body, the body having an opening through its end opposite from its mounting end communicating with said socket for passage of the shank end of a cutting tool into the tool socket, and means for fixedly securing the shank end of said cutting tool in the tool slide socket.

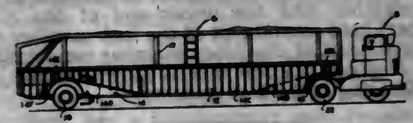
2,654,611
ADJUSTABLE SPRING JAW CHUCK
Clifford C. Lee, Aberdeen, S. Dak.
Application March 16, 1950, Serial No. 149,907
1 Claim. (Cl. 279—56)

In a drill chuck, a threaded arbor having a reduced end formed with an annular groove, a chuck housing including an inner section having a threaded opening in which the arbor is threaded, an outer cone-shaped housing section threaded on the inner section of the housing, a jaw cage movable within the housing and having a tapered outer surface, said jaw cage having spaced longitudinal slots providing guides and having an annular groove, jaw units having inclined outer surfaces contacting with the inner surface of the outer cone section, mounted within the slots, said jaw units having openings extending transversely therethrough, connecting springs extending through said openings of the jaws, connecting the jaws of each unit, the ends of said springs being extended laterally engaging the jaws of the units, providing stops limiting movement of the jaws with respect to each



other, coiled springs mounted on said connecting springs bearing against adjacent jaws normally urging the adjacent jaws away from each other, said coiled springs being disposed in the annular groove of said jaw cage holding said springs against movement longitudinally of the jaw cage, and a split ring fitted in the annular groove of the reduced end of the arbor providing a swivel connection between said arbor and jaw cage.

2,654,612
AUTOMOBILE-CARRYING TRAILER
Lynn M. Francis, Detroit, Mich.
Application July 2, 1951, Serial No. 234,829
3 Claims. (Cl. 280—33.05)



3. In an automobile-carrying highway trailer having rear wheels with rubber tires thereon and which is adapted for attachment at its forward end to a hauling tractor also having rear wheels with rubber tires thereon, a closed bottom deck having a flat horizontal middle section forming vehicle wheel supporting portions, a long flat sloping forward air conduit extending upward and forward from said middle section to a point near the front end of the trailer, vehicle wheel supporting portions located near the front end of the trailer, a long flat sloping rear air conduit extending upward and rearward from said middle section to a point near the rear end of the trailer, and vehicle wheel supporting portions located near the rear end of the trailer, said forward and rear air conduits each forming a small angle of slope with the horizontal and effecting smooth free circulation of air around the tires and wheels when the trailer is in operation.

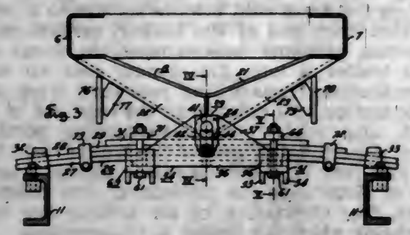
2,654,613
IMPLEMENT AND TRAILER HITCH
Cecil L. Blair and Richard L. Fox, Waterloo, Iowa, assignors to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa
Application March 28, 1952, Serial No. 282,004
1 Claim. (Cl. 280—33.15)



In a hitch of the character described: a horizontal drawbar member having a vertical opening therein; a stud projecting upwardly from the

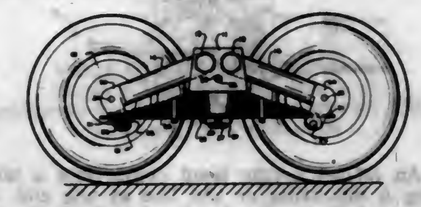
top of the drawbar member on an axis parallel to that of the opening; a vertical hitch pin insertable downwardly into and withdrawable upwardly from the opening and having an upper portion of greater radial dimension than the opening to provide an abutment engaging the top of the drawbar member to hold the pin against dropping through the opening, said pin further having its upper end projecting above and reduced in radial dimension below that of the abutment portion; a lock member overlying the top of the drawbar member and including first and second opposite ends respectively having first and second vertical apertures, said first aperture loosely fitting the stud to carry the lock member vertically slidably and laterally swingably on the stud, and said second aperture being selectively downwardly engageable with and upwardly disengageable from the upper end of the hitch pin to respectively prevent and permit lateral swinging of the lock member on the stud; a stop fixed to the top of the stud at a distance above the top of the drawbar less than the length of the hitch pin below its abutment portion for limiting upward movement of the lock member on the stud to an extent requiring lateral swinging of the lock member before the hitch pin can be withdrawn; and biasing means acting downwardly on the first end of the lock member and reacting against the stop on the stud to resiliently retain engagement between the second end of the lock member and the upper end of the hitch member; said second end of the lock member and the upper end of the hitch member constituting, when engaged, the sole means for preventing lateral swinging of the lock member.

2,654,614
RESILIENT VEHICLE SUSPENSION
Bernard J. Murphy, Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Application September 16, 1950, Serial No. 185,260
6 Claims. (Cl. 280—104)



1. An equalizer for establishing a vertically yieldable load transmitting connection between body and running gear structures of a vehicle, said equalizer comprising: a horizontally laminated spring, a main spring leaf forming one of the vertically opposite sides of said spring and adapted for connection at its opposite ends in vertical load transmitting relation with one of said structures, an auxiliary spring leaf forming the other of the vertically opposite sides of said spring; a rigid channel bar having a web adjacent to said one side of said spring, and flanges extending vertically at the horizontally opposite sides, respectively, of said spring; a pivot element cooperable in upward and downward load transmitting relation with a complementary vertical load transmitting element on the other of said structures, said pivot element being mounted on said flanges of said channel bar, in spaced relation to and independently of said spring, at said other of the vertically opposite sides of said spring and intermediate the opposite ends of said channel bar; and vertical load transmitting means mounted on said channel bar, independently of said pivot element, and bearing upon said auxiliary leaf at the other of said vertically opposite sides of said spring.

2,654,615
TANDEM WHEEL AND SPRING SUSPENSION
Lynn M. Francis, Detroit, Mich.
Application October 22, 1949, Serial No. 123,008
3 Claims. (Cl. 280—104.5)



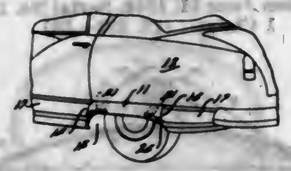
1. A tandem wheel and spring suspension comprising a fastening member adapted for detachable connection to a vehicle frame, a pair of link arms each pivotally connected at one end to said fastening member, an end cap rigidly affixed to the other end of each of said link arms, a pair of downwardly extending supporting arms disposed one on each side of each of said end caps, a bearing block pivotally connected between each pair of said supporting arms, an outwardly extending stub shaft disposed on each of said end caps and having a brake drum mounting plate thereon, a spring retaining member pivotally connected at its top to said fastening member and having a tapered face on its inner bottom portion, a leaf spring connected at its center portion to said spring retaining member, and wedge means adjustably disposed between the bottom of said spring and the tapered face of the said spring retaining member, the ends of said spring being disposed in sliding engagement upon said bearing blocks.

2,654,616
COMBINED AUTOMOBILE TRAY AND PASSENGER SAFETY GUARD
Rene Meckli, Upper Darby, Pa.
Application November 5, 1949, Serial No. 125,696
4 Claims. (Cl. 280—150)



1. A combined automobile tray and collision guard comprising a tray, a pair of rails upon which said tray is movable, a plurality of aligned recesses in each of said rails, a pivoted spring pressed lever attached to said tray, one end of said lever having a hook thereon which is adapted to engage within one of said recesses whereby the tray will be held in a predetermined position, and a padding distributed on the front and side edges of said tray, and a plurality of springs, one end of each spring being attached to said tray and the other end of each spring being attached to a portion of an automobile whereby the spring will normally pull the tray to a closed position.

2,654,617
FENDER SKIRT
Harvey J. Anschuetz, Plymouth, Mich., assignor to Kaiser-Frazer Corporation, Willow Run, Mich., a corporation of Nevada
Application June 19, 1950, Serial No. 169,001
3 Claims. (Cl. 280—153)



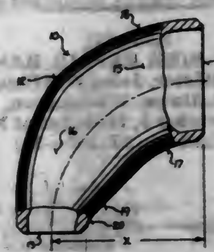
1. As an article of manufacture, a fender skirt comprising an elongated panel, hooked means along said panel adjacent one edge thereof and adapted to engage a fender, a pair of elongated spring members on said panel spaced from said one edge, retaining means for securing the inner ends of said spring members to said panel, each of said securing means comprising a cover retaining plate having upper and lower edges fixed to said panel, a spring retainer plate overlying said cover retainng plate and secured thereto, the inner ends of said spring members being anchored between said retainer plates, and an ear extending normally from each of said cover retaining plates, said ears being in spaced longitudinal relationship and positioned between said hooked means and said spring members.

2,654,618
HOSE COUPLING DEVICE FOR CONNECTION TO UNTHREADED FAUCETS
Matthew G. Kurth, Milwaukee, Wis.
Application August 30, 1948, Serial No. 46,836
9 Claims. (Cl. 285—106)



1. In a device of the character described, for attaching a hose to a faucet spout not provided with threaded connections, the combination with a spout-embracing yoke having spout-clamping means to secure the yoke on the spout, of a bracket connected with the yoke to be fixedly mounted thereby on the spout, a lever pivoted to the bracket, a screw separate from said yoke clamping means and adjustable between the bracket and the lever for effecting pivotal movement of the lever respecting the fixed bracket, and a spout-engaging coupling movable to and from operative spout engagement and connected with the lever to be actuated thereby into pressure engagement with the spout.

2,654,619
REDUCING ELBOW
Gilbert A. Gaum, Louisville, Ky., assignor to Ladish Co., Cudahy, Wis., a corporation of Wisconsin
Application April 11, 1951, Serial No. 220,469
1 Claim. (Cl. 285—196)



A 90° reducing elbow comprising: a curved pipe segment the ends of which lie in planes substantially at right angles to one another and have different cross sectional diameters, said elbow having a substantially arcuate axial centerline whose center of curvature lies substantially in both of said planes, the contour of that portion of the elbow which lies radially outward of its centerline being continuously arcuate from one end of the elbow to the other, one end portion of the elbow comprising substantially 45° of its length containing substantially the entire reduction of the elbow, which reduction extends throughout substantially the whole of said 45° length, while that wall portion of said 45° length which lies radially inward of the centerline of the elbow has a substantially semi-frusto-conical shape throughout substantially the whole of said 45° length with the small end of said semi-frusto-conical wall portion closely adjacent to the small diameter end of the elbow, and that portion of the elbow lying between the large end of the semi-frusto-conical wall portion and the large diameter end of the elbow being of uniform cross-section equal to the diameter of the large end of the elbow and being concentric with the arcuate axial centerline of the elbow.

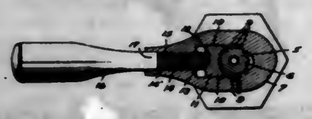
2,654,620
FURNITURE POST END CONSTRUCTION
George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application May 27, 1949, Serial No. 95,855
2 Claims. (Cl. 287—20)



1. A post construction comprising a post end having an inner tubular wall, an anchor plate in self-locked attachment in said post end comprising a generally convex sheet metal body defining a base and provided with recesses on its periphery defining diametrically opposite resilient shoulders and pointed prongs and land portions between said pointed prongs on the periphery of said anchor plate between said diametrically opposite resilient shoulders, said land portions conforming substantially to the contour of said inner wall but out of contact therewith, said resilient shoulders having cutting edges cutting into said inner tubular wall together with said prongs in locking the anchor plate within said

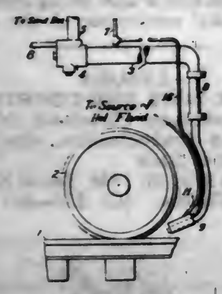
tubular wall, stud engaging means on said base of the anchor plate comprising raised integral thread engaging tongues extending from said base, a complementary part on said post end, and a screw in self-locking threaded engagement with said thread engaging tongues and securing said part on the post end.

2,654,621
FAUCET BIBB REPAIR HANDLE
Harry H. Wister, John W. Wister, and Charles B. Davis, Wilmington, Calif.
Application October 9, 1950, Serial No. 189,176
1 Claim. (Cl. 287—53)



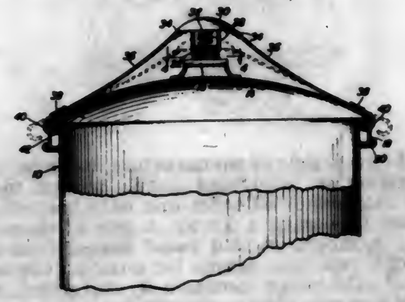
A movable handle for attachment to a faucet stem, comprising a head having an opening formed with a rounded end fitted over such faucet stem, cooperating teeth on the rounded end of the opening of the head and stem, connecting the head and stem, a jaw movable in said opening, said jaw having a curved surface formed with teeth adapted to engage the teeth of the stem holding the head in clamped relation with the stem, said jaw having an opening, a movable handle section threaded in an opening of the head, said handle section having a reduced end formed with a straight outer edge, rotatably fitted in the opening of the jaw and said handle section adapted to operate to move said jaw into clamping relation with the stem.

2,654,622
SANDING DEVICE FOR LOCOMOTIVES
Harry G. Foster, Mullens, W. Va.
Application April 24, 1950, Serial No. 157,796
11 Claims. (Cl. 291—3)



1. A track sanding device comprising a nozzle having an elongated tubular body and having an elongated longitudinally extending slot formed therein intermediate its ends, an elongated head mounted on said nozzle with a portion thereof extending into said slot and having one or more orifices formed therein and communicating with the interior of said nozzle, a fluid conduit connected with one end of said head for injecting a fluid under pressure into said nozzle to discharge accumulated matter therefrom, an enlarged elongated cylindrical heater casing mounted on said nozzle and surrounding at least a portion of said nozzle and said head, the peripheries of said nozzle and said casing being spaced from each other and being in substantially coaxial alignment with respect to one another to form a heating chamber therebetween, means connecting said heating chamber with a source of heated pressure fluid for circulating said fluid around said nozzle in heat exchange relation therewith, and said casing having an aperture formed therein adjacent the discharge end of said nozzle and in position to discharge said heated pressure fluid onto the adjacent track rail.

2,654,623
GARBAGE OR ASH CAN LOCK LID
Ossian J. Huggins, Pensacola, Fla., assignor of twenty-five per cent to William C. Kimberl, Jr., Pensacola, Fla.
Application June 21, 1950, Serial No. 169,422
1 Claim. (Cl. 292—30)



In combination, a lid for a can and a locking assembly for locking said lid on a can, a lifting handle mounted on the central portion of said lid, guide loops adjacent diametrically opposite edges of said lid, and said lid having edge apertures adjacent said guide loops, an upstanding coil spring on said handle, a compressing member engaging the top of said spring for pressing the same downward toward the handle, straps secured to said compressing member and passing through said guide loops, hooks on the free ends of said straps passing through said edge apertures to engage the rim of a can and lock the lid thereto, downward movement of said compression member moving said hooks out of engagement with said apertures.

2,654,624
BAG SEAL
George G. Canter and Gilbert G. Canter, New York, N. Y.
Application May 9, 1952, Serial No. 286,884
7 Claims. (Cl. 292—308)



1. In combination with a sealing device for the gathered neck portion of a bag of the type comprising a cord adapted to be arranged in one or more loops around said neck portion, and a cord-anchoring sealing member of compressible material having holes through which said cord is threaded; a rigid bag-gripping element having two angularly disposed flat sides in which are openings to freely receive said cord in its passage to and from said sealing member, said element having a bag-engaging flange along adjacent edges of the sides of said element which flange extends inwardly of the space between said sides, said element being threaded on said looped cord with its apex adjacent said sealing member.

2,654,625
BAIL FOR CONTAINERS
Carl F. Sprague, Lyndhurst, Ohio, assignor to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio
Application September 29, 1951, Serial No. 249,091
13 Claims. (Cl. 294—33)



1. A clamping means for securing formed wire articles to a friction-retained lid type container wherein the lid is provided with an annular recessed portion, which clamping means comprises a recess engaging member, a rim traversing member and a chime engaging member formed from a continuous wire, each of said members constituting a loop of wire lying in a substantially vertical plane substantially at right angles to the plane of the next succeeding wire loop, and having a free end adapted to engage the chime of a friction-retained lid container, the depth of the recess engaging member being limited by the depth of the recess in the lid of said container, the width of the rim traversing member being no less than the width of the rim, the width of the chime engaging member ranging from about the width of the recess engaging member to about ½ the width of the recess engaging member, and having the free end of said chime engaging member of sufficient length to be positioned directly under the chime when the recess engaging member is in contact with the bottom of the recess in said container lid and, from the combined effect with the recess engaging member, in frictional engagement with the container body.

2,654,626
IMPLEMENT FOR CARRYING OUT DIGGING OPERATIONS
Charles John Rice, Bexley Heath, England
Application January 12, 1948, Serial No. 1,896
In Great Britain November 4, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires November 4, 1966
12 Claims. (Cl. 294—50.3)

1. A manually operated digging implement comprising a tubular stem having handles extending rigidly on either side of one end thereof, a head portion mounted rigidly on the other end of said stem, two blade-like portions pivotally mounted upon said head portion for angular movement about fixed axes carried by said head portion, said blade-like portions being adapted to be moved into positions in which they are inclined with respect to one another to form a substantially closed scoop, a pull rod extending through said stem and being operatively connected at its lower end to said blade-like portions, a pair of manually operated actuating levers connected to said pull rod near its upper and and disposed below said handles and arranged substantially parallel with said handles, said levers being arranged adjacent said handles and in positions to be grasped by the fingers of hands resting upon said handles whereby said levers may be manually drawn upwardly towards



said handles, said pull rod having toothed means rigidly connected thereto, and at least one resiliently mounted releasable locking pawl extending into said stem below said handles and serving to engage said toothed means and allow movement of said pull rod and blade-like portions in a scoop-forming direction whilst positively preventing movement of said portions in an opening direction after any movement thereof in a scoop-forming direction.

2,654,627
OIL FIELD FISHING TOOL FOR ROCK BITS
Drew Story, Hobbs, N. Mex.
Application July 11, 1949, Serial No. 104,630
4 Claims. (Cl. 294—65.5)



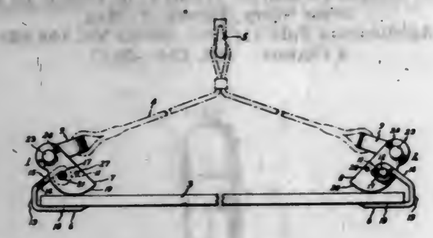
2. In a device for recovering articles of magnetizable material, a case consisting of a plurality of sections releasably connected together, a lining of insulating material disposed in said case, a transverse support supported by and disposed in and extending across said case, a magnetic element disposed in said case, and means secured to said support maintaining said element in said case, said lining being disposed between said magnetic element and said case.

2,654,628
MEANS FOR HOLDING RECEPTACLES
Herman J. Klante, New York, N. Y., assignor to Lily-Tulip Cup Corporation, New York, N. Y., a corporation of Delaware
Application November 6, 1947, Serial No. 784,429
4 Claims. (Cl. 294—87.28)



4. A device for releasably holding a plurality of tapered articles, comprising a laterally extending structure provided with a laterally disposed series of recesses having their openings facing forwardly and defined by forward edges, said structure having its forward edges on each side of a central portion of said structure disposed rearwardly with respect to the forward edges of said central portion and the recesses of said series on each side of and farther from said central portion being disposed rearwardly with respect to a recess nearer said central portion, and a handle extending rearwardly from said central portion and provided with a downwardly extending grip.

2,654,629
HORIZONTAL PLATE LIFTING CLAMP
Joseph C. Renfroe, Jacksonville, Fla.
Application May 27, 1952, Serial No. 290,363
2 Claims. (Cl. 294—101)



1. A horizontal plate lifting clamp comprising a unitary body member shaped to form a flat horizontal platform portion to engage under a plate, a back portion extending vertically upwardly from a rear edge of said platform portion, an intermediate portion extending angularly upwardly and forwardly from the upper edge of said back portion, and a generally cylindrical, hollow, pin-receiving rolled-under portion extending transversely of the intermediate portion at the upper forward edge of said intermediate portion, said pin-receiving portion and the contiguous upper section of said intermediate portion having two spaced vertical slots, an eccentric jaw member in each said slot, each said jaw member having an aperture therethrough aligned with the hollow interior of said pin-receiving portion, a bearing pin disposed in said pin-receiving portion through said apertures and extending beyond said pin-receiving portion at each end, fastening means in each end of said pin outside of said pin-receiving portion to retain said bearing pin in position through said portion, said jaw members having respectively similar second apertures spaced from said respective first apertures, a clevis pin extending through and beyond both said second apertures, means to retain said clevis pin in position through said second apertures, and a clevis having an upper, lifting-device-receiving portion and two downwardly extending arm portions spaced to lie respectively immediately adjacent the inner faces of said respective jaw members, said arm portions being apertured adjacent their lower ends and receiving said clevis pin therethrough, each said jaw member having means to receive a trip line for manually disengaging said jaw members from said engaged plate, the said hollow cylindrical pin-receiving portion of said body member being wider than the distance between said eccentric jaw members and extending laterally on both sides thereof.

2,654,630
PLATE LIFTING CLAMP
Joseph C. Renfroe, Jacksonville, Fla.
Application May 27, 1952, Serial No. 290,361
10 Claims. (Cl. 294—104)



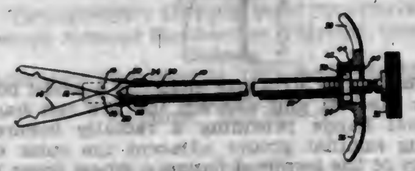
1. A plate lifting clamp comprising two spaced parallel interconnected walls, having an inwardly directed vertical plate receiving slot formed in its lower edge and having outer edges extending upwardly and outwardly from said slot, a clevis, said walls having slot means in which said clevis is adapted to slide, said clevis being disposed at the upper portion of said walls for vertical motion, a fixed jaw in one side of said slot, a pivoted clamping jaw in the opposite side of said slot, linkage connected between said clevis and said pivoted jaw, a cam member, means pivotally mounting said cam member to one of said walls, said cam member being operable in one direction toward a closed locking position in engagement with said pivoted jaw whereby to hold said jaw in locking position, said cam member being operable in the opposite direction to an unlocked position to release said jaw, and spring means for urging said cam member toward its locking position, said spring means having one of its ends connected to said linkage and its other end connected to said cam member, a freely rotatable roller having a rolling surface portion protruding beyond said outer wall edges behind said fixed jaw, and a second roller outside of one said wall adjacent the lower end of said opposite side of said slot and having a rolling surface portion extending sufficiently into the entrance area of said slot to prevent engagement of a plate in said slot with the walls at the lowermost end of said opposite side of said slot, a shaft pivotally mounting said clamping jaw, said second roller being mounted on said shaft.

2,654,631
OPEN LOCKING PLATE LIFTING CLAMP
Joseph C. Renfroe, Jacksonville, Fla.
Application May 27, 1952, Serial No. 290,362
4 Claims. (Cl. 294—104)



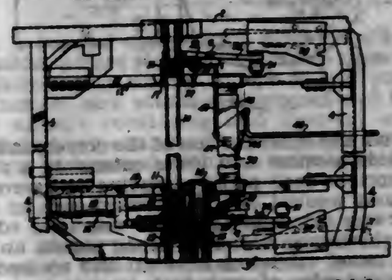
1. In a plate lifting clamp comprising a pair of spaced parallel side walls slotted at the bottom to receive a plate, means connecting said walls to each other, a gripping jaw member pivoted to said walls and engageable with a plate in said slot, a lifting clevis, said walls having aligned slots and said clevis being movable in said slots, a link connected between said clevis and an off-center portion of said jaw member to pivotally close said jaw member upon lifting of said clevis and link and to pivotally open said jaw member upon lowering of said clevis and link, said link having an upwardly open notch, a loosely mounted pawl pivotally mounted on said clamp normally hanging freely against said link, said notch being positioned and proportioned to receive said freely hanging pawl member upon opening of said jaw member, said walls having a notched trap for said pawl member for locking said jaw member in open position remote from said link, said pawl member being selectively manually rotated from its lower link engaging position to its upper position for engagement in said trap and removable therefrom to hang against said link in said lower position.

2,654,632
PIVOTED JAWS FORCEPS TOOL WITH LOCKING MEANS
Louis C. Herbert, Burley, Wash.
Application November 3, 1949, Serial No. 124,989
3 Claims. (Cl. 294—116)



1. A forceps tool comprising a tubular casing, cooperating jaws pivotally mounted on one end of said casing, a rod separate from said jaws extending through said casing and having an externally threaded portion remote from said jaws, jaw-actuating means separate from and engageable with said jaws and operable by said rod moving lengthwise toward said jaws to swing them toward closed position, spring means operable to urge said jaws toward open position and said rod lengthwise away from said jaws, a nut threadedly received on the threaded portion of said rod, means interconnecting said nut and said casing and operable to guide said nut for limited movement axially of said casing and to restrain appreciable rotative movement thereof relative to said casing, stop means carried by said casing, engageable by said nut and limiting axial movement thereof away from said jaws, and handle means on the end of said rod remote from said jaws and operable to reciprocate said rod non-rotatively and said nut conjointly lengthwise toward said jaws for effecting relatively rapid tweezer jaw closing lengthwise movement of said rod and turnable to rotate said rod relative to said nut and jaws for effecting positive locking of the jaws in clamped position.

2,654,633
LEVELING MEANS FOR VEHICLES
George La Verne Runkle and Donald H. Cox, Lima, Ohio, assignors to Superior Coach Corporation, Lima, Ohio, a corporation of Ohio
Application January 29, 1952, Serial No. 268,258
11 Claims. (Cl. 296—16)

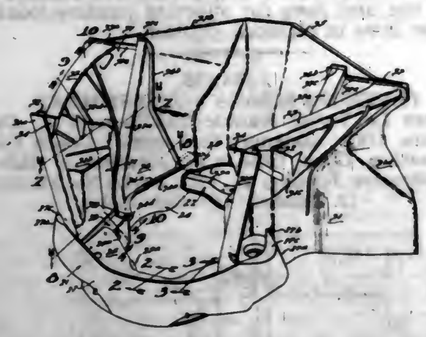


1. A leveling mechanism for a vehicle having a body spring-mounted on a running gear axle, said mechanism including a pair of parallel cross-shafts journaled in said body, an actuator carried by the vehicle and connected to one of said shafts and selectively operable to rock said one shaft in one direction or the other, means connecting the shafts for reversely rocking one from the other, a pair of leveling arms journaled on and freely rockable relative to said shafts in planes transverse to their axes, one adjacent to each side of the body, a connection between the free end of each leveling arm and the said axle to impart movement from one to the other, a clutch arm projecting transversely from and secured to each shaft to turn therewith, one at a side of each of said leveling arms, said clutch arms each having a pair of vertically spaced projections one above and one below the normal horizontal planes of the upper and lower edges of the respective leveling arm, means securing each of said clutch arms for swinging lengthwise of its shaft to place said projections into or out of the path of rocking movements of the respective leveling arm, means associated with said clutch arms whereby said clutch arms normally stand in released relation to the respective leveling arm, and means on said vehicle operable to move said clutch arms into engaging relation to the leveling arms.

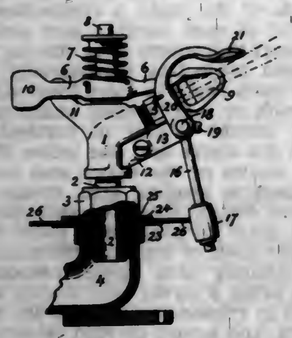
2,654,634
AUTOMOBILE BODY FRONT END STRUCTURE
Karl G. Zumbach, Detroit, Mich., assignor to Briggs Manufacturing Co., Detroit, Mich., a corporation of Michigan
Application December 8, 1950, Serial No. 199,789
11 Claims. (Cl. 296—28)

1. In a vehicle body frontal structure, a longitudinal frame side member extending the length of the frontal structure at each side and bifur-

cating near its rear end to provide inner and outer frame side extensions, each inner extension terminating rearward in a support for a cross frame member, a generally longitudinal wheelhouse panel secured to and extending upward from the outer portion of each frame side member and outer extension, a generally longitudinal dash brace panel spaced inward of each wheelhouse panel and secured to and extending upward from the inner portion of the corresponding frame side member and inner extension, a generally upright dash panel extending transversely across and secured to the rearward ends of the outer frame extensions and the rearward edges of the wheelhouse and dash brace panels, and a spacing panel extending between and secured to the forward edge of each dash brace panel and the adjacent wheelhouse panel to complete a box-like side assembly at each side of the frontal structure.

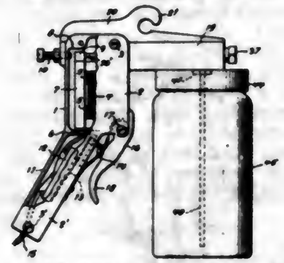


2,654,635
CONTROLLED CONTOUR LAWN SPRINKLER
Aldo Lazzarini, Van Nuys, Calif.
Application June 28, 1951, Serial No. 234,037
2 Claims. (Cl. 299—18)



1. A lawn sprinkler having a head revolvable on a vertical axis upon a stationary base; a nozzle obliquely projecting from said head; an oscillating balance turning the head when activated by a water jet impinging upon an inclined scoop formed at one end of the balance; a water trajectory controlling unit consisting of a lever carrying a jet deflecting vane, a tracer arm connected to said lever, a cam-plate mounted over the sprinkler stationary base, said cam-plate's outline guiding the swinging end of said tracer arm into regulating the degree of tilt of the said jet deflecting vane, and means for biasing said tracer arm toward said cam-plate.

2,654,636
MOTOR OPERATED SPRAY DEVICE
Forrest M. Duncan, Long Island City, N. Y., assignor, by mesne assignments, to Champion Implements Corporation, New York, N. Y., a corporation of New York
Application August 17, 1949, Serial No. 110,778
10 Claims. (Cl. 299—97)



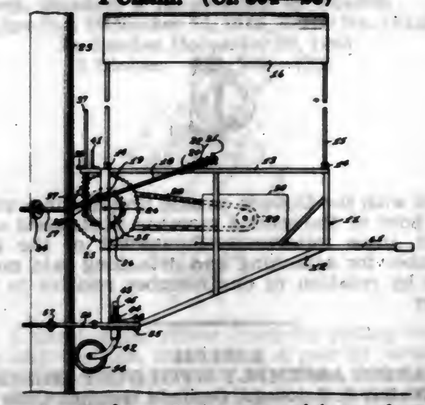
5. In a spray gun, a barrel, a piston therein, a nozzle at one end and means for actuating said piston at the other end thereof, a removable sleeve having a valve seat therein in said barrel adjacent said nozzle, a ball valve contacting said seat, a spring in said sleeve bearing on said valve, said nozzle having a hollowed portion threaded into said barrel, the outer end of said sleeve fitted in said hollow, washers at both ends of said sleeve, one of said washers contacting a shouldered portion of said barrel and the other washer contacting the inner end of said nozzle, an opening in the face of said sleeve rearwardly of said valve and a tube attached to said barrel in communication with said opening, the free end of said tube adapted to be immersed in fluid to be sprayed.

2,654,637
WHEEL COVER
George Albert Lyon, Detroit, Mich.
Application January 11, 1950, Serial No. 137,990
11 Claims. (Cl. 301—37)



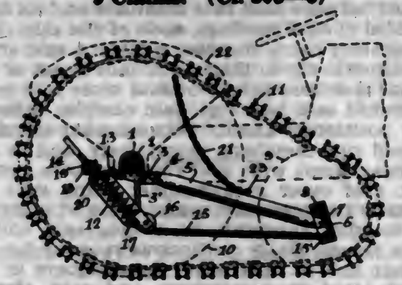
1. In a wheel structure including a wheel body and a tire rim and wherein the tire rim has a terminal flange providing a radially inwardly opening annular groove adjacent the outer extremity of the terminal flange, a wheel cover for disposition at the outer side of the wheel and having retaining clip means thereon comprising a resilient serpentine structure providing a retaining shoulder loop curled under and directed generally radially outwardly and retainingly engageable in the groove of the tire rim, and resilient connecting means for the loop with the margin of the wheel cover and having a return bent juncture with the radially inner side portion of the loop, said connecting means being resiliently deflectable to enable engagement of the cover margin with said loop on relative axial deflection of the clip and cover margin as permitted by said resilient connecting means.

2,654,638
POLE CLIMBING DEVICE
Robert A. Elliott, Fallston, N. C.
Application April 13, 1951, Serial No. 220,940
1 Claim. (Cl. 304—28)



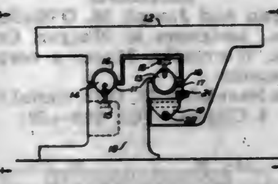
A pole climbing device comprising a frame, a motor mounted on said frame, a toothed wheel journaled to said frame at one margin thereof and projecting outwardly from said frame, a yoke member resiliently secured to said frame and projecting outwardly therefrom at said one margin, the plane of said wheel being within said yoke member, a plurality of rollers journaled on said yoke member, means drivingly coupling said wheel to said motor, a caster bracket rotatably secured to the lower portion of said frame adjacent said margin and projecting outwardly therefrom, a pair of parallel guide wheels journaled on said caster bracket, means releasably locking said caster bracket in a position wherein said guide wheels are parallel to the plane of said toothed wheel, a pair of side arms movably secured to the lower portion of the frame and projecting outwardly therefrom at said margin, an additional roller journaled on each of said arms, and a transverse shaft journaled to said frame at said margin, said shaft having oppositely threaded portions threadedly engaging the respective side arms, whereby said side arms may be adjusted to vary the spacing therebetween so that said additional rollers engage the pole at the sides thereof to retain said guide wheels in contact with said pole.

2,654,639
TENSIONING DEVICE FOR TRACTORS
Joseph Armand Bombardier, Valcourt, Quebec, Canada
Application November 24, 1952, Serial No. 323,176
In Canada October 30, 1952
9 Claims. (Cl. 305—8)



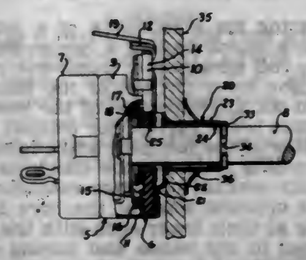
1. In a tractor, a drive axle, a bar having one end pivoted thereto, a rocker member pivoted on the other end of said bar and extending in a vertical plane, another axle carried by said bar and positioned at a vertical distance from the pivot of said member, and means for adjusting said member on its pivot.

2,654,640
WAY CONSTRUCTION
Edward Payson Bullard, Fairfield, Conn., assignor to The Bullard Company, a corporation of Connecticut
Application June 30, 1949, Serial No. 102,253
4 Claims. (Cl. 308—3)



1. A bearing construction comprising in combination, a fixed support; a movable support; oppositely facing grooves in one of said supports; cylindrical bars within said grooves and fixed to the support containing said grooves; and oppositely facing bearings in said other support in sliding engagement with said cylindrical bars.

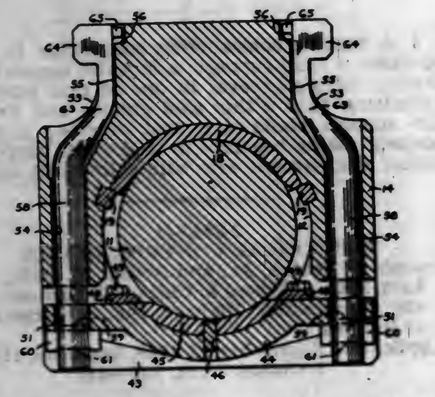
2,654,641
ELECTRICAL CONTROL DEVICE
Joseph G. Veatch, Jr., and Arthur M. Daily, Elkhart, Ind., assignors to Chicago Telephone Supply Corporation, Elkhart, Ind., a corporation of Indiana
Application September 15, 1949, Serial No. 115,824
8 Claims. (Cl. 308—15)



1. In an adjustable control device: a housing containing cooperating stationary and rotatable control instrumentalities; a flat base closing the housing and having the stationary part of the control instrumentalities mounted thereon; a rotatable control shaft entering the housing through a hole in the base and carrying the rotatable part of the control instrumentalities; proper coaction between said parts of the control instrumentalities requiring the control shaft to turn on an axis accurately normal to the base; the axis of the hole in the base being normal to the base and the hole being of a size to provide a smooth, close-fitting bearing for the shaft; a stamped and formed mounting member for the control device having a flange overlying the outer face of the base, a cylindrical hub integral with the flange and surrounding the shaft, the outside diameter of the hub being uniform and the inside diameter of the hub being larger than the shaft diameter and spaced from the shaft, and an inturned portion on the outer end of the hub, the internal diameter of said inturned portion being of a size to provide a smooth, close-fitting bear-

ing for the rotatable shaft, the axis of the bearing thus provided being accurately normal to the plane of the flange; and means securing the flange to the base with the bearing at the outer end of the hub accurately coaxial with the hole in the base so that said bearing coacts with the hole to hold the control shaft in the position required for proper coaction between the stationary and rotatable parts of the control instrumentalities.

2,654,642
BEARING
Myles Morgan and Joseph M. O'Malley, Worcester, Mass., assignors to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts
Application November 22, 1949, Serial No. 128,734
4 Claims. (Cl. 308—59)



1. A bearing for a roll neck of a rolling mill comprising a chock having a horizontal bore to receive the roll neck and a transverse recess intersecting the lower portion of the bore, a liner mounted in the upper portion of the bore providing a concave lower surface for contact with the upper surface of the roll neck and adapted to receive the rolling pressure, the chock having two substantially vertical openings extending therethrough at opposite sides of the bore and communicating at their lower ends with the recess, a plate located in the recess and having end portions which extend beneath the openings in the chock, a liner mounted on the plate providing a concave upper surface for contact with the lower surface of the roll neck, a tension rod extending through each of the said vertical openings in the chock, means fastening the lower end portions of the rods to the adjacent end portions of the plate, the rods having portions extending upwardly beyond the upper ends of the said vertical openings and offset from said openings in directions inwardly toward the vertical axial plane of the bearing, and outwardly extending lugs on the offset portions of the rods adapted to engage supporting means independent of the bearing so that the rods may support the plate, the roll, and the chock.

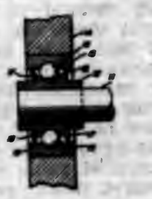
2,654,643
UNIVERSAL BEARING
Richard T. Reese, Van Nuys, Calif.
Application July 10, 1952, Serial No. 298,070
8 Claims. (Cl. 308—72)

1. A universal bearing comprising: a first member having a spheroidal open socket and formed with internal threads adjacent the opening of said socket, and a second member of spheroidal form diametrically bored and having external threads on its equatorial area extended at a right angle relative to said bore and adapted to



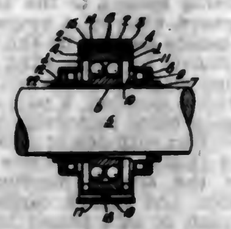
mesh with the threads on said first member when the bore of the second member is disposed at a right angle relative to the socket of the first member for attaching and detaching said members by rotation of one member relative to the other.

2,654,644
BEARING ASSEMBLY WITH DUST SHIELDS
Walter S. Sutowski, Garfield Heights, Ohio
Application May 22, 1952, Serial No. 289,360
5 Claims. (Cl. 308—187.2)



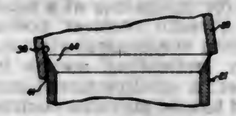
1. A bearing assembly comprising in combination an inner race member said inner race member having an annular outer channel extending therearound and a pair of annular shoulders extending therearound, said shoulders being positioned on opposite sides of said outer channel and spaced axially from each other, an outer race member having an annular inner channel extending therearound and a pair of inner annular grooves extending therearound, said grooves being positioned on opposite sides of said inner channel, a plurality of round bearings positioned between said race members, said channels facing each other and providing a raceway for said bearings, a pair of metallic ring members positioned between said race members and on opposite sides of said bearings, each of the said ring members having an outer annular edge portion, said edge portions being disposed in said grooves respectively to hold said ring members against axial movement, and a pair of circular members positioned between said race members and on opposite sides of said bearings, each of the said circular members being disposed adjacent said shoulders respectively to limit axial movement of said circular members axially of said inner race member toward said bearings, said circular members being positioned axially between said shoulders and said ring members, respectively, and in sliding engagement with said ring members, respectively, said outer race member being split and resiliently compressible, compression of said outer race member substantially closing said split to form a substantially continuous raceway for said bearings and to hold said ring members in said grooves, said ring members and said circular members providing a dust shield for said bearings between the race members.

2,654,645
SHEET METAL PILLOW BLOCK
John Ture Ruist, Goteberg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Goteberg, Sweden, a corporation of Sweden
Application December 15, 1949, Serial No. 133,023
In Sweden December 22, 1948
3 Claims. (Cl. 308—189)



1. A sheet metal pillow block for rolling bearings and the like, comprising a pair of housing halves engaging each other in a plane perpendicular to the axis of the bearing, the meeting edges of the halves being turned outwardly to form flanges, a yoke circumferentially embracing the halves and having a groove for receiving said flanges, the ends of said yoke being bent outwardly to form feet, a base plate, the ends of said base plate being bent backwards to embrace the ends of the said feet so as to interlock the base plate with the housing against separation in the said perpendicular plane, and means for detachably interlocking the base plate with the housing against relative displacement in the axial direction, said interlocking means comprising a tongue on one of said interlocked members and a tongue receiving socket on the other of said interlocked members engageable and disengageable with and from each other by flexure of said plate, and said base plate having sufficient flexibility in the area between said feet to provide for said engagement and disengagement.

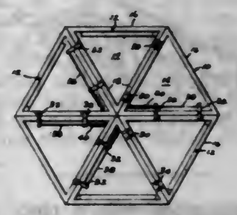
2,654,646
PISTON
Gustave Lidseen, Oak Park, Ill., assignor to Gustave Lidseen, Inc., Chicago, Ill., a corporation of Illinois
Application February 2, 1950, Serial No. 142,030
1 Claim. (Cl. 309—33)



A piston for reciprocation within a cylinder, said piston being cup-shaped and having a main cylindrical portion provided at its open end with an inner frustro-conical surface terminating in a thin resilient packing edge, said edge in its free state being of larger diameter than the cylinder with which it is to be associated and said edge extending radially outwardly beyond the external surface of said cylindrical portion.

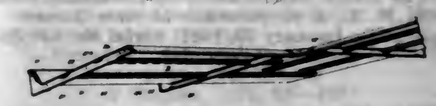
2,654,647
FOLDING SECTIONAL TOP UTILITY TABLE
Thomas L. Murray, Orange, N. J.
Application June 17, 1952, Serial No. 293,927
2 Claims. (Cl. 311—89)

1. In a folding table top assembly, at least one pair of top sections hingedly connected for relative swinging movement between selected extreme positions in one of which said sections are folded in superposed relationship, and in the other of which they are unfolded and are disposed in a common plane to form a flat table top, the axis of swinging movement of said sections lying in a plane common to said first-named plane when the sections are unfolded; and latch means for locking the sections in their unfolded position, including a plurality of hook-like latch members spaced longitudinally of said axis and pivotally mounted on one of the sections to swing within



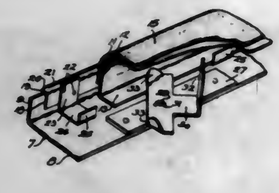
a plane substantially common to that of the plane of the opposite faces of the unfolded sections, means on the other section engageable by said latch members in one position to which the latch members are swung, to lock the sections in their unfolded position, a rod extending between the latch members to connect the same for joint swinging movement, and yielding means connected to the latch members and to said one section respectively, and tensioned to normally bias the latch members to said locking position thereof.

2,654,648
SEVERABLE COUNTER TOP FOR KITCHEN CABINET INSTALLATION
Louis L. Burke, Connersville, Ind., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware
Application September 1, 1950, Serial No. 182,683
3 Claims. (Cl. 311—106)



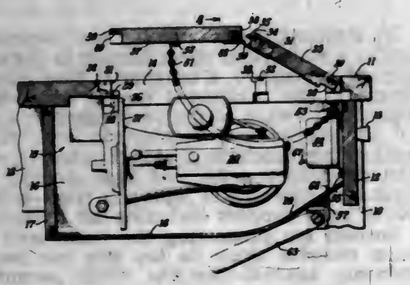
3. In combination, a counter top component including a supporting sheet formed to define an up-turned backguard, a horizontal base member in front of the backguard and a downwardly curved edge forward of the base member; a plurality of longitudinal reinforcing ribs rigidly secured to the underside of said counter top component coextensive with said base member and backguard; a plurality of separable front-to-back supports, each support including an upstanding rear portion for supporting the backguard and defining recesses along its top side for bearing relationship against the ribs while permitting bearing engagement of the remainder of each support against the underside of the associated counter top component; said ribs having a plurality of fastener-receiving openings at spaced intervals permitting attachment of said supports at predetermined points along said ribs; and fasteners for securing said supports to said ribs.

2,654,649
CAPPED CORNER AND METAL TOP ANCHORAGE FOR FURNITURE
LeRoy W. Pasewalk and John F. Reimer, Manitowoc, Wis., assignors to Invincible Metal Furniture Company, Manitowoc, Wis., a corporation of Wisconsin
Application June 2, 1949, Serial No. 96,712
5 Claims. (Cl. 311—108)



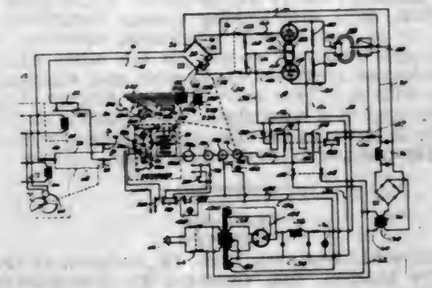
1. The combination with a piece of furniture having an anchor mounting means adjacent its top, of a top member for said furniture having side and end wall portions provided with inwardly projecting flanges, a series of anchor clamps mutually spaced about the periphery of the furniture and respectively pivotally connected with said means, each of said clamps comprising an oscillatory plate having a pintle connecting it with said means and movable between a first position in which said plate clears adjacent portions of said flange, and a second position in which said plate overlies an adjacent portion of said flange, the said plate having a camming surface adapted in the course of its oscillatory movement between the said first and second positions to exert a downward pressure on the said flange, said mounting means being provided with top support means supporting said flange in spaced relation to said anchorage means.

2,654,650
SEWING MACHINE TABLE OF THE DROPHEAD TYPE
Edward W. Stanton, Roselle Park, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application January 23, 1951, Serial No. 207,354
3 Claims. (Cl. 312—30)



1. A sewing machine table comprising a plurality of leg members, a flat oblong table top carried upon said leg members and provided in each of a pair of its diagonally opposed quadrants with an oblong machine-receiving cutout positioned with its major axis in parallelism with the major axis of said table top so as to provide openings through which a pair of sewing machines are dropped when not in use, a pair of hinges each secured to said table top along the rearward edge of a respective one of said cutouts for supporting the rear edge of a sewing machine bed, a pair of flush panels each being narrower than said cutouts and being hinged to the table top and along the forward edge of a respective one of said cutouts, means carried by the free edge of each of said panels for supporting the forward edge of a sewing machine bed when the latter is raised to operative position, a pair of secondary flush panels each being removably positioned in cooperative relation with one of said flush panels for completely closing a respective one of said cutouts when the sewing machine is in its dropped position and means carried upon the free edge of each of said panels and upon the table top along the rearward edge of each cutout for supporting said secondary panels.

2,654,651
REMOTE RADIO RECEIVER TUNING INDICATING APPARATUS
James G. Black, Chicago, Ill., assignor to A. C. Nielsen Company, Chicago, Ill., a corporation of Illinois
Application October 29, 1945, Serial No. 625,371
9 Claims. (Cl. 346—37)



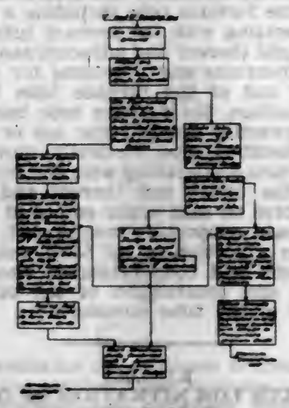
1. Apparatus for indicating at a central station the tuning of a radio receiver positioned at a remote point from the central station, including in combination, indicating means including a movable member, a unidirectional motor operatively connected to said movable member for moving said member, a balanced bridge circuit adapted to be unbalanced by changes in tuning of the receiver and to be rebalanced by operation of said motor, said circuit comprising a variable resistor comprising one arm of the bridge circuit positioned at the remote point and variable in response to the tuning of the receiver to unbalance the circuit the other three arms of the bridge circuit being positioned at the central station, one of said three arms including a variable resistor variable by said motor to rebalance the circuit, balanced amplifying means differentially connected to the bridge circuit, and a relay connected to the output of said amplifying means and controlling the position of the motor in response to unbalances in the bridge circuit to move said movable member into different positions corresponding to the variations in the variable resistor positioned at the remote point due to the tuning of the receiver.

CHEMICAL

2,654,652
DYEING OF ACRYLONITRILE POLYMERS WITH ACETATE DYES
Linton G. Ray, Jr., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 2, 1949, Serial No. 108,235
6 Claims. (Cl. 8—4)

1. A process for dyeing a structure of an acrylonitrile polymer derived from at least 85% by weight of acrylonitrile which comprises padding said structure with a mixture of an acetate dye dispersed therein and a dispersing liquid comprising 25% to 100% of a cyclic ester containing from 3 to 5 carbon atoms; and wet steaming the resultant padded structure for at least about 5 minutes to effect said dyeing.

2,654,653
METHOD OF PRODUCING CONCENTRATES OF URANIUM AND VANADIUM FROM LOW-BEARING ORES
Ralph D. Nye and Dana James Demorest, Columbus, Ohio
Application August 8, 1949, Serial No. 109,234
4 Claims. (Cl. 23—14.5)



1. The method of obtaining concentrates of uranium and vanadium from low-bearing uranium and vanadium containing ores which comprises reducing the ore to a relatively finely divided state; wetting the reduced ore with an alkali carbonate solution; elutriating the wetted ore with a dilute alkali carbonate solution to separate substantially the entire uranium-bearing and at least a part of the vanadium-bearing constituents of the ore from the relatively coarse sand grain constituents thereof; heating and evaporating the dilute alkali carbonate solution containing the separated uranium and vanadium constituents of the ore to reduce the volume of such solution and to dissolve all of the uranium contained therein; acidifying the evaporated alkali carbonate solution; filtering the acidified solution to separate an acid supernatant uranium containing solution from an undissolved vanadium containing residue; heating the vanadium-containing residue to ignition temperatures to burn out all organic material and evaporate all free water contained therein and to obtain a first vanadium concentrate from that portion of the ore separated from the original mass during the elutriation thereof; adding to the supernatant uranium-containing solution an alkali metal hydroxide to precipitate an alkali metal uranate; separating said alkali metal uranate from the solution after the addition of said alkali metal hydroxide and chemically reducing the alkali metal uranate to uranium oxide.

2,654,654
PROCESS FOR THE PRODUCTION OF URANIUM TETRAFLUORIDE
Amy S. Leah, Runcorn, and Ronald B. Mooney, Liverpool, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application December 17, 1943, Serial No. 514,718. In Great Britain January 16, 1942
11 Claims. (Cl. 23—14.5)

1. A process for the production of uranium tetrafluoride which comprises heating an ammonium uranium fluoride at a temperature at which dissociation occurs with liberation of ammonium fluoride so as to directly produce uranium tetrafluoride.

2,654,655
TRISTAGE CRYSTALLIZATION AND HYDROLYSIS PROCESS FOR RECOVERING VANADIUM PHOSPHORUS AND CHROMIUM FROM FERROPHOSPHORUS AND LIKE MATERIALS
Lloyd H. Banning and Wallace E. Anable, Albany, Oreg., assignors to the United States of America as represented by the Solicitor of the Department of the Interior
No Drawing. Application October 27, 1952, Serial No. 317,165
2 Claims. (Cl. 23—107)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. In a process for the production of vanadium red-cake, chrome yellow, and trisodium phosphate from ferrophosphorus containing also vanadium and chromium, involving roasting such ferrophosphorus with salt and soda ash, the improvement which comprises leaching the roasted product with water, separating a leach solution containing trisodium-phosphate, -vanadate and -chromate, then cooling said solution and separating in a primary crystallization step, a crop of trisodium phosphate crystals containing also vandiun and chromium, redissolving said primary crystal crop in water and recovering by recrystallization a secondary crop of trisodium phosphate crystals as a product, returning the mother liquor from recrystallization to the leach solution, then adding phosphoric acid to the mother liquor from said primary crystallization to convert residual dissolved phosphate values

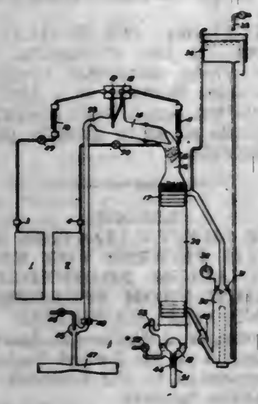
into disodium hydrogen phosphate, subjecting the thus treated solution to a tertiary crystallization step to recover a crop of disodium hydrogen phosphate crystals and a pregnant solution low in phosphorus but containing chromium and vanadium, returning said disodium hydrogen phosphate crystals to the said leach solution, then adding calcium chloride to the pregnant solution to precipitate residual phosphate as tricalcium phosphate, separating said precipitated tricalcium phosphate, acidifying the solution with sulphuric acid and heating and agitating the remaining solution containing chromium and vanadium, at an acidic pH, to precipitate vanadium red-cake, separating the red-cake and treating the mother liquor with enough lime to precipitate residual vanadium and part of the calcium sulfate, removing the precipitate, precipitating chrome yellow from the remaining solution by addition of lead nitrate, and then separating and recovering the chrome yellow.

2,654,656

PRODUCTION OF CHLORINE DIOXIDE

Cyril Harry Evans, Cambridge, England, assignor to Addage Limited, London, England, a British company

Application May 11, 1950, Serial No. 161,380
In Great Britain May 24, 1949
5 Claims. (Cl. 23—267)



1. Apparatus for preparing chlorine dioxide which comprises a primary tubular chamber having its longitudinal axis slightly inclined to the horizontal, separate inlet pipes for admission of liquid reactants extending from above into the upper portion of said inclined primary chamber at a substantial distance from the upper end thereof, an outlet for gas at the upper end of the primary chamber, a secondary substantially vertical tubular chamber, connected at its upper end to the lower end of the primary chamber, said secondary chamber having an upper portion thereof of substantially less diameter than the lower portion thereof, at least one helically arranged conduit in said lower portion adapted for the circulation of heating fluid and helically extending through a substantial extent of said lower portion of said secondary chamber and so arranged therein as to be adapted to support a bed of inert packing material in the upper portion of said secondary chamber, and an inlet for inert gas and an outlet for reaction liquor at the lower end of said lower portion of said secondary chamber.

2,654,657

TUBULAR REACTOR WITH EXPANSION COMPENSATOR

Robert M. Reed, Louisville, Ky., assignor, by mesne assignments, to National Cylinder Gas Company, Chicago, Ill., a corporation of Delaware

Application August 14, 1950, Serial No. 179,360
1 Claim. (Cl. 23—277)



A furnace for use in reacting gases, comprising a vertically elongated combustion chamber, a vertically elongated furnace tube structure extended through said chamber and projecting above and below the chamber and having gas inlet and gas outlet connections rigidly connected therewith toward the lower end thereof below the combustion chamber, and supporting mechanism for the furnace tube including a fixed support cooperating with the furnace tube adjacent the lower end thereof and adjacent said inlet and outlet connections and providing for support of the lower end of the furnace tube in a fixed vertical position, the furnace tube being free to expand upwardly through the top of the combustion chamber, and vertically movable supporting means cooperating with the furnace tube adjacent the upper end thereof and imposing a lifting force on said upper end, said fixed support and said supporting means each providing support for a portion of the total weight of the furnace tube and cooperating to accommodate expansion and contraction of the tube at the upper end of the tube structure.

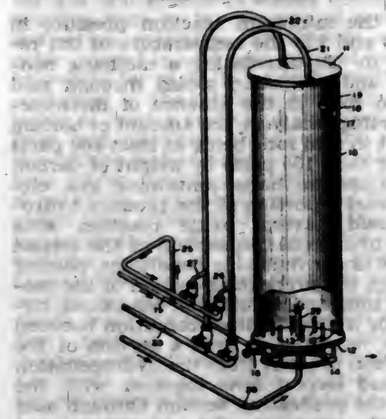
2,654,658

APPARATUS FOR NITRATION OF ORGANIC COMPOUNDS

Walton H. Marshall, Jr., New York, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Application April 2, 1948, Serial No. 18,607
5 Claims. (Cl. 23—283)

1. Apparatus for reacting nitric acid with an organic compound which comprises a reaction vessel whose inner surface is susceptible to the corrosive action of hot liquid nitric acid, said vessel being adapted to contain a mass of finely divided solid material, means for introducing into said vessel at a low point a gaseous stream for aerating and fluidizing the mass of finely divided solid material, a gas exit in the upper portion of said reaction vessel, a conduit for introducing nitric acid into the vessel and extending through the wall of the vessel and terminating at a point substantially spaced from the inner walls of said vessel and within the portion of said vessel occupied by the mass of finely divided solids in a fluidized condition, a jacket surrounding that portion of said conduit within said vessel, and means for circulating cooling fluid between said conduit and said jacket to maintain the nitric acid flowing through said conduit at a substantially non-corrosive temperature.

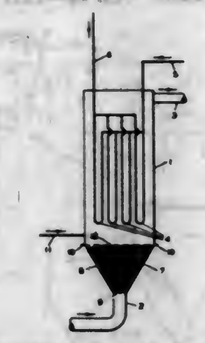


2,654,659

DISTRIBUTION FOR INLET GAS

Alvin H. Friedman, Kansas City, Mo., assignor to Phillips Petroleum Company, a corporation of Delaware

Application December 18, 1947, Serial No. 792,515
3 Claims. (Cl. 23—288)



1. Apparatus for the synthesis of hydrocarbons by contacting synthesis gas mixtures comprising carbon monoxide and hydrogen with a finely divided catalyst which comprises an upright, elongated reaction chamber closed at its upper end; a reactant material outlet conduit connected to the upper portion of said chamber; heat exchange means positioned within said chamber; a downwardly and inwardly tapering, conically-shaped distribution chamber attached to and closing the lower end of said reaction chamber; a sole reactant material inlet conduit communicating with the apex of said distribution chamber; a first reticular member positioned between said reaction and distribution chambers for supporting said finely divided catalyst thereabove; a catalyst inlet conduit communicating with the lower portion of said chamber and located above said first reticular member; a second reticular member positioned between said reactant material inlet conduit and said distribution chamber; catalyst inlet means in said chamber above said first reticular member and a fixed mass of granular solid particles inert to the reactants and larger than the openings in said reticular members disposed between said reticular members.

2,654,660

STABLE FUEL OIL COMPOSITIONS

Edward Mitchell, Pittsburgh, Pa., and Alan P. Cramp, Petaluma, Calif., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application June 7, 1951, Serial No. 230,423
10 Claims. (Cl. 44—63)

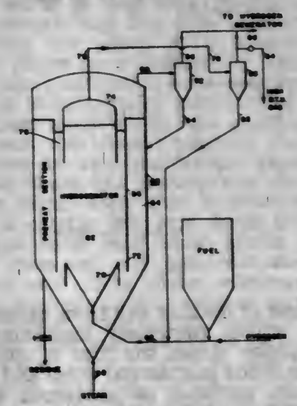
1. A fuel oil composition comprising a major proportion of a mixture of straight run and cracked distillate fuel oils tending to deposit sludge, and a minor amount, sufficient to inhibit sludge deposition from said mixture of oils, of a polyvalent metal salt of a monoamide of a dicarboxylic acid, wherein the two N-substituents are selected from the group consisting of hydrogen, alkyl and alkenyl radicals, at least one substituent being an organic radical of said group and the total number of carbon atoms in the N-substituents is 8 to 22, and wherein said dicarboxylic acid is selected from the group consisting of unsubstituted and alkyl-substituted 2,5-endoethylene-$\Delta^{3:4}$-cyclohexene-1,6-dicarboxylic acids, said alkyl-substituted dicarboxylic acids having not more than four alkyl groups each having not more than six carbon atoms.

2,654,661

GASIFICATION OF CARBONACEOUS SOLID FUELS

Everett Gorin, Castle Shannon, Pa., assignor to Pittsburgh Consolidation Coal Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application November 19, 1949, Serial No. 128,435
1 Claim. (Cl. 48—197)



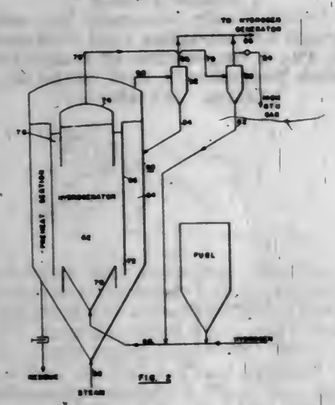
The method of making gas from carbonaceous solid fuels which comprises maintaining two separate reaction zones, the first of which contains calcium oxide in granular form and the second of which contains carbonaceous solids in granular form, said second zone being divided into a hydrogenation section and a preheating section which intercommunicate and which are arranged in heat exchange relation with each other, maintaining said reaction zones at temperatures between 1400° and 1750° F. and at pres-

sures which are at least those given by the empirical relationship

$$p=3.0+1.94\times10^{-2}(t-1431)+3.41\times10^{-4}(t-1431)^2$$

where p is the minimum reaction pressure in atmospheres and t is the temperature of the reaction zone in °F., circulating a methane containing gas and preheated steam through said first reaction zone containing calcium oxide, the amount of oxide present in said zone being at least 250 parts by weight for each 100 parts by weight of carbon contained in the methane containing gas, circulating at least a portion of the product hydrogen from said calcium oxide reaction zone through the hydrogenation section of the second reaction zone under fluidizing conditions, passing steam through the preheating section of the second reaction zone under fluidizing conditions, circulating solids in the fluidized condition between said sections, recycling at least a portion of the gaseous reaction product from the hydrogenation section of said second zone together with the steam from the preheating section through said first reaction zone as the aforementioned methane containing gas and preheated steam, respectively, and recovering at least a portion of the gas produced in one of said zones.

2,654,662
GASIFICATION OF CARBONACEOUS SOLID FUELS
Everett Gorin, Castle Shannon, Pa., assignor to Pittsburgh Consolidation Coal Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application November 19, 1949, Serial No. 128,436
1 Claim. (Cl. 48—197)

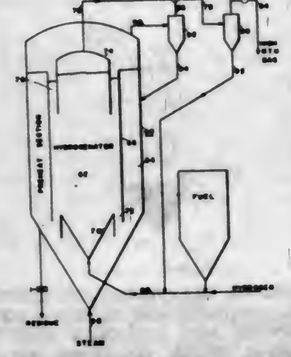


The method of making gas from carbonaceous solid fuels which comprises maintaining two separate reaction zones, the first of which contains barium oxide in granular form and the second of which contains carbonaceous solids in granular form, said second zone being divided into a hydrogenation section and a preheating section which intercommunicate and which are arranged in heat exchange relation with each other, maintaining said first reaction zone at a temperature between 1700° and 2300° F., maintaining said second reaction zone at a temperature between 1400° and 1800° F., maintaining pressures in both reaction zones which are at least one atmosphere when the temperature of said first reaction zone is in the range 1700° to 2050° F., and when the temperature is in the range 2050° to 2300° F., are at least those given by the empirical relationship

$$p=1+4.9\times10^{-3}(t-2050)$$

where p is the minimum reaction pressure in atmospheres and t is the temperature of the reaction zone in °F., circulating a methane containing gas and preheated steam through said first reaction zone in the absence of methane-steam converting catalysts, the amount of barium oxide present in said zone being at least 800 parts by weight for each 100 parts by weight of carbon contained in the methane containing gas, circulating at least a portion of the product hydrogen from said barium oxide reaction zone through the hydrogenation section of the second reaction zone under fluidizing conditions, passing steam through the preheating section of the second reaction zone under fluidizing conditions, circulating solids in the fluidized condition between said sections, recycling at least a portion of the gaseous reaction product from the hydrogenation section of said second zone together with the steam from the preheating section through said first reaction zone as the aforementioned methane containing gas and preheated steam, respectively, and recovering at least a portion of the gas produced in one of said zones.

2,654,663
GASIFICATION OF CARBONACEOUS SOLID FUELS
Everett Gorin, Castle Shannon, Pa., assignor to Pittsburgh Consolidation Coal Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application November 19, 1949, Serial No. 128,437
1 Claim. (Cl. 48—197)

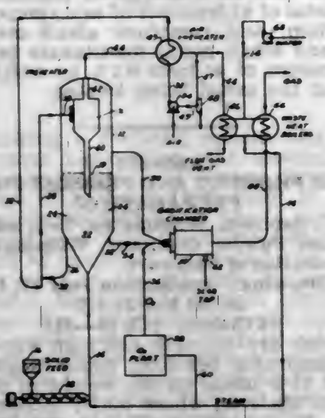


The method of making gas from carbonaceous solid fuels which comprises maintaining two separate reaction zones, the first of which contains strontium oxide in granular form and the second of which contains carbonaceous solids in granular form, said second zone being divided into a hydrogenation section and a preheating section which intercommunicate and which are arranged in heat exchange relation with each other, maintaining said first reaction zone at a temperature between 1500° and 2100° F., maintaining said second reaction zone at a temperature between 1400° and 1800° F., maintaining pressures in both reaction zones which are at least one atmosphere when the temperature of said first reaction zone is in the range 1500° to 1865° F., and when the temperature is in the range 1865° to 2100° F., are at least those given by the empirical relationship

$$p=1+4.9\times10^{-3}(t-1865)$$

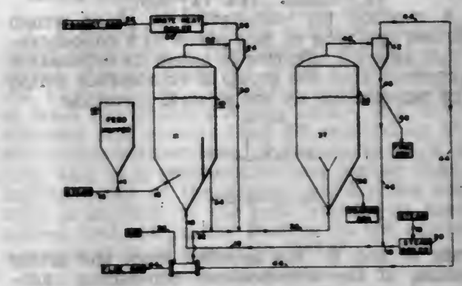
where p is the minimum reaction pressure in atmospheres and t is the temperature of the reaction zone in ° F., circulating a methane-containing gas and preheated steam through said first reaction zone in the absence of methane-steam converting catalysts, the amount of strontium oxide present in said zone being at least 600 parts by weight for each 100 parts by weight of carbon contained in the methane containing gas, circulating at least a portion of the product hydrogen from said strontium oxide reaction zone through the hydrogenation section of the second reaction zone under fluidizing conditions, passing steam through the preheating section of the second reaction zone under fluidizing conditions, circulating solids in the fluidized condition between said sections, recycling at least a portion of the gaseous reaction product from the hydrogenation section of said second zone together with the steam from the preheating section through said first reaction zone as the aforementioned methane-containing gas and preheated steam, respectively, and recovering at least a portion of the gas produced in one of said zones.

2,654,664
GASIFICATION OF CARBONACEOUS SOLIDS
Eric H. Reichl, Mount Lebanon, and Robert V. Safford, Bethel Township, Allegheny County, Pa., assignors to Pittsburgh Consolidation Coal Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application April 5, 1948, Serial No. 19,698
1 Claim. (Cl. 48—206)



The method of gasifying carbonaceous solids which comprises passing steam into a bed of finely divided carbonaceous solids under fluidizing conditions, withdrawing a portion of said carbonaceous solids from said fluidized bed, conveying said withdrawn portion to a separate combustion zone, burning a part of said withdrawn portion in said combustion zone with air to thereby raise the temperature of said withdrawn portion, conveying the heated solids from said combustion zone back to said fluidized bed, the temperature and amount of said heated solids returned to said fluidized bed being such that a temperature between 1400 and 1800° F. is established and maintained in said fluidized bed, withdrawing hot effluent gas, including unreacted steam, and hot carbonaceous solids separately from the fluidized bed, separately conducting said hot effluent gas and said hot carbonaceous solids to a steam-carbon gasification zone, adding oxygen to said hot carbonaceous solids prior to entry into said gasification zone in an amount insufficient for complete combustion of the solids but sufficient to raise the temperature of the gasification zone above 1900° F., reacting the solids-oxygen reaction mixture with said effluent gas in the gasification zone under non-fluidized conditions, whereby substantially all of the carbonaceous solids are converted to gas and a substantially carbon-free ash, and then recovering the gaseous products from said gasification zone.

2,654,665
GASIFICATION OF CARBONACEOUS SOLIDS
John A. Phinney, Mount Lebanon, Pa., assignor to Pittsburgh Consolidation Coal Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application February 21, 1950, Serial No. 145,374
1 Claim. (Cl. 48—206)



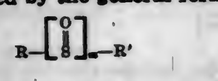
The method of gasifying finely divided carbonaceous solid fuel which comprises continuously supplying finely divided carbonaceous solid fuel of different particle sizes to a confined gasification zone to thereby establish and maintain a bed of solids in said zone, passing steam upwardly through said bed at a velocity sufficient to maintain the solids as a suspended dense turbulent phase superimposed by a dilute solids phase in said gasification zone, continuously supplying hot substantially carbon-free ash fines derived from said fuel to said gasification zone, passing said ash fines upwardly through said dense phase in said gasification zone and into said dilute phase, the particle size range of said ash fines being such that substantially all of said ash is carried into said dilute phase by the effluent gas from said dense phase, separating said ash fines and any entrained carbonaceous fines from said dilute phase, withdrawing solids having an average carbon content corresponding to that of said dense phase directly from said gasification zone and combining said solids with said separated fines outside of said gasification zone, passing said combined solids to a combustion zone, circulating an oxidizing gas in contact with said solids in said combustion zone under conditions such that the temperature of the combustion zone is maintained above that of said gasification zone and such that said solids are reduced to a substantially carbon-free state, separating from the ash produced in said combustion zone a portion having a particle size range corresponding to that of the first mentioned ash fines, recycling that portion only to said gasification zone, and recovering the gaseous products from said gasification zone.

2,654,666
EXPLOSIVE
William J. Taylor, Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 5, 1948, Serial No. 6,567
9 Claims. (Cl. 52—11)

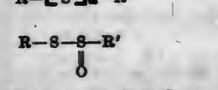
2. An explosive comprising a granular ammonium nitrate, an explosive liquid nitric ester, and a powdered manno-galactan distributed throughout said explosive in finely-divided form capable of swelling in contact with water to impart water-resistance to said explosive.

2,654,667
SULFOXIDES AS PLANT DEFOLIANTS
Lyle D. Goodhue, Bartlesville, Okla., and Carolyn E. Tinsel, Minneapolis, Minn., assignors to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application November 29, 1950, Serial No. 198,224
19 Claims. (Cl. 71—2.3)

1. A method for defoliating a plant which comprises applying to said plant in a concentration and amount effective to cause its defoliation a compound from the group of compounds which can be represented by the general formulae

(1) 

and

(2) 

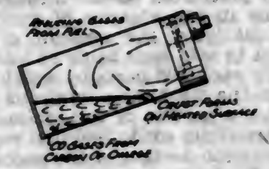
wherein R and R' are selected from the group consisting of the non-halogen containing radicals alkyl, cycloalkyl, aryl, alkaryl and aralkyl groups containing not more than 12 carbon atoms and *m* is an integer from the group of 1 and 2.

2,654,668
COMPOSITION FOR STIMULATING THE GROWTH OF PLANTS
Dominique Weibel, Nidau-Bienne, Switzerland, assignor to Chim A. G., Basel, Switzerland, a company of Switzerland
No Drawing. Application December 13, 1948, Serial No. 65,075. In France December 22, 1947
3 Claims. (Cl. 71—2.5)

3. A plant growth - stimulating composition which substantially consists of at least one plant hormone in admixture with a yeast autolysate, an antiseptic capable of preventing propagation of detrimental micro-organisms in the composition, and a reducing sugar.

2,654,669
METHOD OF REDUCING IRON OXIDES
Norman J. Urquhart, Scenery Hill, Pa., and Clarence A. Rider, Bridgeport, W. Va., assignors to Combustion Processes Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application October 2, 1951, Serial No. 249,323
4 Claims. (Cl. 75—33)

1. The method of reducing iron oxide by supporting a particulate batch of iron oxide and carbon in the chamber of a rotatable tubular furnace, sustaining a reducing atmosphere over the said particulate batch, repeatedly raising substance of the batch at the surface thereof to a crust-forming temperature below that at which free-flowing slag is formed and by successive intermittent angular movements of the said furnace chamber turning under in the particulate batch successive crusts of reduction products



formed at the surface of the batch while repeatedly bringing fresh substance of the batch to the surface thereof for exposure to the crust-forming gases and temperature of the said furnace atmosphere.

2,654,670
FLUX FOR TREATING ALUMINUM AND ALUMINUM ALLOYS
James A. Davis, Columbus, and La Verne W. Eastwood, Westerville, Ohio, assignors, by mesne assignments, to The Pennsylvania Salt Manufacturing Company
No Drawing. Application April 1, 1950, Serial No. 153,486
10 Claims. (Cl. 75—68)

4. A method of improving the characteristics of aluminum and aluminum base metal alloys, including heat - treatable alloys, comprising maintaining said aluminum and aluminum alloy in a molten state, and inserting within the body of said molten aluminum and aluminum alloy a treating mixture comprising an alkali metal fluoborate and an alkali metal fluotitanate, the alkali metal of at least one of said compounds being sodium, said combined alkali metal fluoborate and alkali metal fluotitanate being used in an amount of at least 0.1% by weight of the weight of the metal being treated.

2,654,671
PAPER PRODUCT AND PROCESS FOR ITS PREPARATION
Julian L. Azorlosa, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 17, 1948, Serial No. 39,371
16 Claims. (Cl. 92—21)

1. A high dry-strength and high wet-strength paper comprising cellulosic paper fibers and up to about 15% based on the weight of pulp of a polymeric material whose major monomer constituent is a vinyl-substituted pyridine compound.

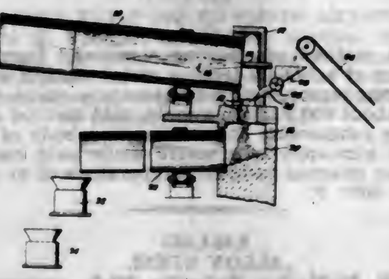
2,654,672
COMPOSITION FOR MAKING BREAD
Roland W. Selman, Jr., and Boyce G. Carson, Kansas City, Mo., assignors to De-Raef Corporation, Kansas City, Mo., a corporation of Missouri
No Drawing. Application March 22, 1951, Serial No. 217,064
3 Claims. (Cl. 99—90)

1. A composition for making bread including in combination a major amount of defatted soya flour, from .1% by weight to 16% by weight of monocalcium acid phosphate, from .5% by weight to 20% by weight of calcium carbonate and from .02% by weight to .2% by weight of potassium bromate.

2,654,673
COLORLESS PRINTING FLUID
David W. Steinhardt, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
No Drawing. Application October 20, 1951, Serial No. 252,421
1 Claim. (Cl. 106—22)

A substantially colorless printing fluid which will make marks of one color on record sheet sensitized with attapulgite and marks of another color on record material sensitized with calcium silicate, said fluid consisting of an oily chlorinated diphenyl in which have been dissolved xanthene-9, o-benzoic acid, 3,6-bis-diethylamino-9-p-nitroanilino-lactam and a compound selected from the group consisting of 3,3 bis(p-dimethylaminophenyl(phthalide and 3,3 bis(p-diethylaminophenyl) phthalide.

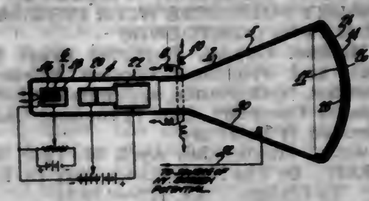
2,654,674
DIATOMACEOUS EARTH AND PORTLAND CEMENT COMPOSITIONS
Charles A. Frankenhoff, Scarsdale, N. Y.
Application October 9, 1950, Serial No. 189,129
4 Claims. (Cl. 106—90)



1. In making a Portland cement and diatomaceous earth composition, the method which comprises introducing, into cement clinker at a temperature of at least 1500°–1800° F., diatomaceous earth wet with water and in proportion providing no more than about one-fifth to one-fourth part by weight of water and also of diatomaceous earth on the dry basis for each part of the clinker, maintaining contact between the clinker and the diatomaceous earth until the clinker is cooled, and then without additional heating subjecting the resulting mixture to grinding and milling to the form of powder of fineness standard for commercial Portland cement, the steps described causing shock cooling of the clinker, drying of the diatomaceous earth, reduction of the diatomaceous earth to amorphous form characterized by relatively low capacity for water absorption, and spreading of the said earth as a fine powder upon the particles of the ground cement.

2,654,675
LUMINESCENT SCREEN COMPOSITION
Charles W. Thierfelder, Lancaster, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application December 29, 1949, Serial No. 135,613
3 Claims. (Cl. 117—33.5)

1. A luminescent viewing screen comprising a light-transmitting base material and a plurality of layers of different phosphor materials, the lower one of said layers adjacent said base comprising silver activated zinc sulfide and an upper layer superimposed on said lower layer comprising a mixture of manganese activated zinc beryllium orthosilicate and titanium activated calcium magnesium silicate.



2,654,676
METHOD OF COATING WITH A COAL EXTRACT AND BAKING
Ian Gordon Cumming Dryden, London, England
No Drawing. Original application June 28, 1949, Serial No. 101,911. Divided and this application November 6, 1950, Serial No. 202,825. In Great Britain February 12, 1948
17 Claims. (Cl. 117—103)

1. A method of coating surfaces, which comprises extracting a bituminous coal with a liquid amine selected from the group consisting of liquid aliphatic and araliphatic amines containing at least one primary amino group, and having a viscosity not greater than 30 centipoises at the extraction temperature, under atmospheric pressure and at a temperature not higher than the boiling point of the amine, coating the surface with a solution of the coal extract in such an amine, and baking the coating on the surface at a temperature of about 250–300° C.

2,654,677
MOTHPROOFING AGENT AND MATERIAL CONTAINING THE SAME
Ida Marie Rasmussen, New Brunswick, and Edward F. Rogers, Middletown, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application December 1, 1950, Serial No. 198,746
6 Claims. (Cl. 117—138.5)

3. Bis(p - bromo - benzene - sulfonyl)methylene diamine.

2,654,678
ANTISTATIC TREATMENT OF SHAPED ARTICLES COMPRISING A VINYL RESIN AND TREATED ARTICLES
Arthur Cresswell, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application January 28, 1949, Serial No. 73,455
13 Claims. (Cl. 117—138.8)

1. The method of conditioning a shaped article comprising a thermoplastic vinyl resin to lessen its tendency to accumulate static charges of electricity thereon, said method comprising applying to the said article a volatile liquid containing an N-(mono-aliphatic hydrocarbon) diguanidinium sulfosuccinamate, the aliphatic hydrocarbon grouping attached to the amide nitrogen atom containing from 12 to 18 carbon atoms, inclusive, the amount of the said sulfosuccinamate being such that the finished article has associated therewith from, by weight, 0.2% to 4% of the said sulfosuccinamate, based on the weight of the dried, untreated article, and drying the thusly treated article.

2,654,679
STABILIZED REACTION PRODUCTS OF RUBBERY POLYMERS WITH INORGANIC ACIDIFYING COMPOUNDS
Johan Michael Goppel, Gottfried Ernst Rumscheidt, and Johannes Thomas Hackmann, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application April 26, 1949, Serial No. 89,801. In The Netherlands May 18, 1948
19 Claims. (Cl. 117—138.8)

12. A novel stabilized composition of matter comprising a reaction product of a rubbery polymer of at least one compound selected from the group consisting of the conjugated diolefins and chloroprene in the presence of a peroxide activating agent and sulfur dioxide, these being the only reactants, which composition of matter is prepared by impregnating said reaction product, while it is in coagulated state, having a definite form and swollen with solvent, with a solution of at least one stabilizer compound selected from the group consisting of (1) saturated, unsubstituted aliphatic monoamines; (2) carbocyclic aromatic amines in which the amino nitrogen atom is directly attached to the aryl nucleus and in which the amino nitrogen atom is unsubstituted with other than such aryl groups; (3) heterocyclic amines having only carbon and nitrogen atoms in the ring; and (4) salts of said amines, in all cases the amines containing but a single nitrogen atom attached to any given carbon atom not forming a part of a ring, and removing said solvent, said stabilized composition of matter being characterized by a high resistance to deterioration.

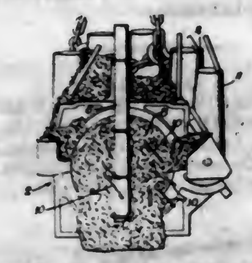
2,654,680
METHOD FOR INCREASING STABILITY OF RUBBERY POLYMER REACTION PRODUCTS AND RESULTING COMPOSITIONS
Johan Michael Goppel, Gottfried Ernst Rumscheidt, and Johannes Thomas Hackmann, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application April 26, 1949, Serial No. 89,802. In the Netherlands May 18, 1948
13 Claims. (Cl. 117—138.8)

9. A novel composition of matter comprising a reaction product of sulfur dioxide with a rubbery polymer of at least one compound selected from the group consisting of conjugated diolefins and chloroprene, these being the only reactants, which reaction product is impregnated with a stabilizer selected from the group consisting of guanyl-substituted cyanamides, guanyl-substituted hydrocarbons and di-hydrocarbon-substituted carbodiimides.

2,654,681
MAGNETIC RECORDING TAPE
Laurence B. Lueck, St. Paul, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
No Drawing. Application January 27, 1950, Serial No. 140,953
3 Claims. (Cl. 117—161)

1. Magnetic recording tape comprising a thin flexible non-magnetic support and firmly bonded thereto a magnetically susceptible coating and having a frictional pull as herein defined of not more than about 30 grams, said coating consisting mainly of a magnetic powder dispersed in a thermoplastic resinous polymeric binder and containing as a permanent friction-reducing component a high molecular weight liquid polymeric dimethylsilicone, said polymeric binder in the absence of said dimethylsilicone providing a tape product having a frictional pull substantially greater than 30 grams and giving rise to squeal and modulation noise in magnetically reproduced signals.

2,654,682
METHOD OF CLEANING CASTINGS
Alfred Walcher, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application August 28, 1948, Serial No. 46,586
4 Claims. (Cl. 134—23)



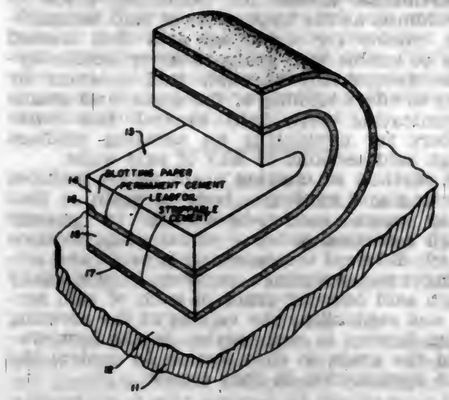
1. A method of cleaning core sand from the interior of a hollow ferrous metal casting which has been removed at a temperature value of at least about 600 F. from a mold, said method comprising submersing the casting in a body of water at atmospheric pressure while said casting is at an internal residual temperature of at least about 600° F.

2,654,683
ALLOY STEEL
Orin W. McMullan, Belleville, Mich., assignor to Bower Roller Bearing Company, Detroit, Mich., a corporation of Michigan
No Drawing. Application May 14, 1951, Serial No. 226,285
2 Claims. (Cl. 148—31.5)

2. An alloy steel article possessing, at high operating temperatures, high hardness and resistance to wear such as required by parts in contact under rolling or sliding movement, which article consists essentially of 2.50% to 3.00% nickel, 1.00% to 3.00% chromium, 2.00% to 6.00% molybdenum, 0.05% to 0.30% carbon, 0.20% to 1.00% manganese, 0.1% to 0.50% silicon, and the remainder substantially all iron, and which has been carburized, quenched and multiple tempered to increase its hardness by repeatedly heating it to a temperature between 600° F. and 1200° F. and cooling it to room temperature between such repeated heatings.

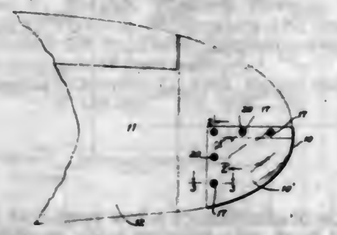
2,654,684
MOISTURE IMPERVIOUS ABSORBENT SHEET FOR COVERING WORK SURFACES IN CHEMICAL LABORATORIES AND THE LIKE
Abraham Helkin, Philadelphia, Pa.
Application October 7, 1948, Serial No. 53,324
4 Claims. (Cl. 154—43)
(Granted under Title 35, U. S. Code (1952), sec. 266)

4. In combination, a piece of furniture comprising a work surface and a protective sheet therefor, the protective sheet comprising a lamina of blotting paper forming one face of the sheet, a lamina of metal foil backing the blotting paper and bonded thereto, a coating of pressure-responsive adhesive on the face of the protective sheet that is opposite the blotting paper, the protective



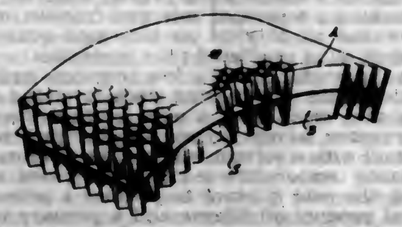
sheet being adhered to the work surface of the furniture by means of the pressure-responsive adhesive.

2,654,685
LOCALLY REINFORCED RESIN ARTICLE
Edward H. Voelker, Huntington, Station, N. Y., assignor to Republic Aviation Corporation, Farmingdale, N. Y., a corporation of Delaware
Application April 12, 1949, Serial No. 86,973
13 Claims. (Cl. 154—43)



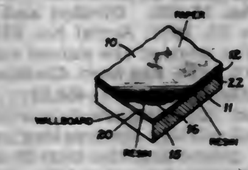
1. An article fabricated of acrylic resin embodying spaced, reinforced areas isolated one from the other and comprising integral parts of the resin body of the article, each of said reinforced areas extending completely through the resin body and terminating in the planes of the surfaces of said body.

2,654,686
STIFFENED HONEYCOMB CORE
Otto A. Hansen, Venice, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application May 11, 1950, Serial No. 161,430
1 Claim. (Cl. 154—45.9)



A stable curved honeycomb core structure curved at right angles to the extent of the honeycomb cells, which comprises at least two normally flat honeycomb core sections each having a thickness not substantially greater than about one and one half times the average diameter of its cells, said core sections being superimposed in the direction of the extent of said cells, and an intermediate stiffening sheet between each pair of adjacent core sections, the adjacent cell ends between each of said pairs being bonded to said stiffening sheet, the cells of each said section being widened at the convex face thereof in the direction of curvature of said core structure and narrowed at the concave face thereof in said direction, whereby all internal forces tending to flatten said core structure are locally equalized at and by said stiffening sheet.

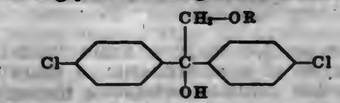
2,654,687
COMPOSITE SHEET MATERIAL AND METHOD OF PRODUCING THE SAME
John S. Fridolph, Flushing, N. Y., assignor to The Serg Paper Company, Middletown, Ohio, a corporation of Ohio
Application July 20, 1950, Serial No. 174,865
11 Claims. (Cl. 154—98)



10. A method of laminating a thermoplastic resin coating film to a sheet of base material which comprises the steps of providing a composite sheet comprising a supporting web having a surface layer composed of a thermoplastic resin and a coating film composed of a different thermoplastic resin in intimate contact with said surface layer, said surface layer and said coating film being mutually insoluble and incompatible and yet permeable to a mutual solvent, laminating said composite sheet to said base sheet by means of an adhesive applied to said coating film and containing a mutual solvent for said thermoplastic resins, and thereafter eliminating said mutual solvent from the resulting lamination while maintaining said supporting web intimate contact with said coating film.

2,654,688
MONOETHERS OF AN ARALIPHATIC GLYCOL AND THEIR USE IN THE CONTROL OF PESTS
Franz Haefliger, Basel, Switzerland, assignor to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm
No Drawing. Application September 7, 1951, Serial No. 245,653. In Switzerland May 8, 1951
4 Claims. (Cl. 167—30)

4. An acaricide comprising a monoether of an araliphatic glycol of the general formula:



wherein R represents a member selected from the group consisting of alkyl radicals, containing a number of carbon atoms less than five, and the allyl radical, and a carrier therefor.

2,654,689

N,N'-PHTHALYL HYDRAZINE FUNGICIDAL COMPOSITION

Waldo B. Ligett, Pontiac, Rex D. Closson, Detroit, and Calvin N. Wolf, Ferndale, Mich., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Original application October 28, 1950, Serial No. 192,804. Divided and this application January 30, 1952, Serial No. 269,126

3 Claims. (Cl. 167—33)

1. A fungicidal composition consisting essentially of a material selected from the group consisting of N,N'-phthalylhydrazine, metallic salts thereof and salts thereof with organic nitrogen bases in amount less than about 50 per cent by weight, an inert diluent and a surface-active agent.

2,654,690

BENZYL ALCOHOL EXTRACTION OF ANTIPERNICIOUS ANEMIA CONCENTRATE

Frank R. Koniuszy, Rahway, and Norman G. Brink and Karl Folkers, Plainfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Original application November 5, 1948, Serial No. 58,596. Divided and this application June 22, 1951, Serial No. 233,116

The portion of the term of the patent subsequent to August 19, 1969, has been disclaimed

5 Claims. (Cl. 167—74.6)

1. The process for preparing a concentrate having enhanced activity for treating pernicious anemia and for promoting the growth of *Lactobacillus lactis* Dorner from a crude concentrate of biological origin containing said active material, which comprises subjecting an aqueous solution of the crude material containing the active material to extraction with benzyl alcohol, and recovering from the resulting benzyl alcohol extract a purified concentrate of enhanced activity.

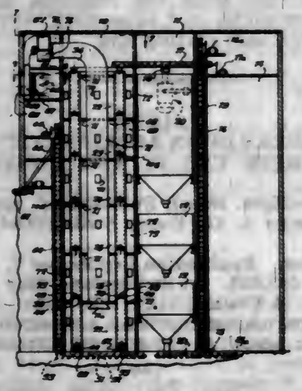
2,654,691

MALTING APPARATUS

Edward E. Frauenheim, Jr., Eggertsville, N. Y.

Application March 14, 1951, Serial No. 215,468

25 Claims. (Cl. 195—71)



1. Apparatus for malting grain including a vertical series of compartments, a plurality of vertical hollow columns extending through said compartments and being joined along adjacent vertical longitudinal edges, said columns having inner and outer foraminous walls which divide each of said compartments into a central chamber and an outer chamber, means in said columns for dividing the latter into sections having substantially the same vertical extent as said compartments, means for delivering grain to said columns at the uppermost of said compartments, means for actuating said first named means to enable said grain to move section-by-section downwardly through said columns by gravity to effect turning of the grain, and means communicating with said central and outer chambers for circulating an aerating medium through said sections by way of said walls.

3. A method of malting grain which includes supporting and guiding a body of grain so that it may move section-by-section by gravity through a vertical series of germinating sections in which different temperatures prevail, and circulating an aerating medium horizontally through said body of grain in each of said sections, and controlling the volume of the aerating medium flowing in each section by the temperature of the grain in that section to control the rate of germination in that section.

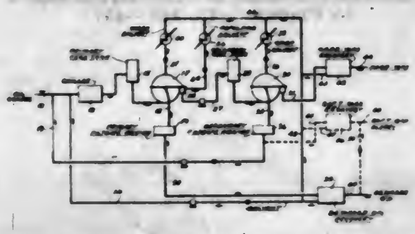
2,654,692

SOLVENT DEWAXING

Wynkoop Kiersted, Jr., Scarsdale, and Howard H. Gross, Pleasantville, N. Y., assignors to Texaco Development Corporation, New York, N. Y., a corporation of Delaware

Application April 7, 1950, Serial No. 154,484

12 Claims. (Cl. 196—18)



1. In the production of a low pour-test hydrocarbon oil from wax-bearing stock involving dewaxing said stock from a cold solution thereof in a dewaxing solvent, by steps comprising mixing the oil with a solvent having substantially complete solvent action upon the liquid hydrocarbon constituents of the stock at dewaxing temperature, chilling the mixture to a dewaxing temperature to crystallize waxes, and filtering the cold mixture in a filtration stage to produce a filtrate containing a product oil and a primary filter cake of wax substantially free from oil, the improvement which comprises separating from said primary filter cake a soft wax fraction by repulping said wax cake in said solvent at a temperature within the range from about 10 to 40° F. above said dewaxing temperature, but not in any event at a temperature greater than 25° F., and combining separated soft wax fraction with the dewaxed oil to yield an increased quantity of product oil of unaltered pour properties.

3. In the production of a low pour-test hydrocarbon oil from wax-bearing stock involving dewaxing said stock from a cold solution thereof in a dewaxing solvent, by steps comprising mixing the oil with a solvent, chilling the mixture to a dewaxing temperature to crystallize waxes, and filtering the cold mixture to produce a primary dewaxed product oil filtrate and a primary wax filter cake, the improvement which comprises treating said primary wax filter cake with additional said solvent at a temperature within the range of from about 10 to 40° F. higher than said dewaxing temperature but not in any event greater than a temperature of 25° F., to separate therefrom an extract soft wax fraction, and continuously introducing separated soft wax fraction as a feed to said primary dewaxing operation thereby causing said soft wax fraction to pass into the primary filtrate to substantially augment the quantity of product oil without detracting from its pour properties.

2,654,693

DEWAXING MINERAL OIL

Charles F. Sacra, Alton, Ill., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application February 27, 1951, Serial No. 213,060

2 Claims. (Cl. 196—18)

2. The process of dewaxing a substantially asphalt-free wax-containing mineral lubricating oil distillate which comprises: cooling a liquid admixture of said mineral oil distillate and a dewaxing solvent consisting essentially of methyl ethyl ketone and propane, the solvent to oil volume ratio being from about 4:1 to 6:1 and the ketone to propane volume ratio being from about 3:2 to 4:1, to precipitate solid wax from the oil, and separating the precipitated wax.

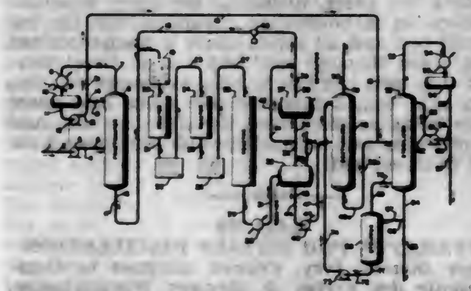
2,654,694

NONREGENERATIVE CATALYTIC REFORMING PROCESS

Charles V. Berger, Western Springs, Ill., and David D. Hansen, Shreveport, La., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application October 17, 1951, Serial No. 251,668

5 Claims. (Cl. 196—50)



1. In an endothermic, substantially non-regenerative catalytic process for the reforming of a substantially olefin-free, normally liquid gasoline fraction in contact with a platinum-containing catalyst, the improved method of operation providing for the economical utilization and minimum quantity of the platinum-containing catalyst, which comprises passing the gasoline fraction through a series of at least two reaction zones containing separate beds of said catalyst, proportioning the catalyst among said zones so that each zone of the series succeeding the first zone contains a quantity of catalyst at least equal to that in the first zone of the series and the last zone of the series contains a greater quantity of catalyst than each preceding zone, heating the gasoline fraction to reforming temperature prior to its introduction to each of said zones, and correlating the inlet temperature of the heated gasoline fraction to each zone with the amount of catalyst therein to obtain a temperature drop in said last zone that is less than $\Delta T/n$ and a temperature drop in each preceding zone of the series that is greater than $\Delta T/4n$, where ΔT equals the sum of the temperature drops in said zones and n equals the number of zones in the series.

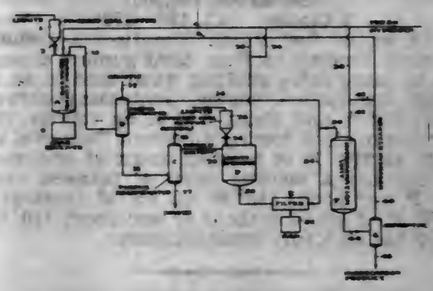
2,654,695

PROCESS FOR PREPARING LIQUID HYDROCARBON FUEL FROM COAL

William I. Gilbert and Charles W. Montgomery, Oakmont, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

Application August 12, 1949, Serial No. 109,924

3 Claims. (Cl. 196—53)



1. The process of preparing a hydrocarbon fuel from coal which comprises in combination subjecting a first portion of coal to destructive hydrogenation by treatment with hydrogen at a temperature between about 900° and 1200° F., at a pressure between about 500 and 2000 p. s. i., separating the liquid product thus produced into a hydrocarbon fraction and a phenolic fraction, subjecting a second portion of coal to a simultaneous solvent extraction-hydrogenation with said phenolic fraction and hydrogen while at a temperature between about 700° and 850° F., and while at a pressure between about 100 and 2000 p. s. i., and subjecting a mixture of said hydrocarbon fraction, said phenolic fraction and the material derived from the second portion of coal to a mild hydrogenation in the presence of hydrogen at a temperature between about 750° and 950° F., at a pressure between about 100 and 1000 p. s. i. in the presence of a hydrogenation catalyst whereby the phenolic fraction is substantially converted into hydrocarbons and the hydrocarbon fraction and the material derived from the second portion of coal are substantially purified.

2,654,696

TREATMENT OF LUBRICATING OIL

Walter N. La Porte, Swarthmore, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

No Drawing. Application June 2, 1950, Serial No. 165,860

6 Claims. (Cl. 196—78)

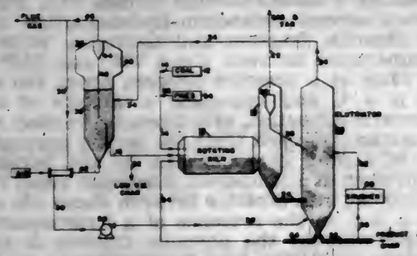
1. Process for improving the color of distillate lubricating oil without substantial hydrogenation of unsaturated hydrocarbons in said oil which comprises: passing said oil downwardly at a temperature within the approximate range from 450° F. to 575° F. through a bed of 4–20 mesh hydrogen-treating catalyst in the presence of hydrogen at a pressure within the range from 10 to 35 atmospheres and at a space rate within the range from 1 to 5 volumes of oil per volume of catalyst per hour and at a flow rate within the range from 10 to 160 cubic feet of oil per

square foot of catalyst bed cross-section per hour, thereby to maintain a relatively thick liquid film of oil on the catalyst; and recovering from said bed a lubricating oil having refractive index within 0.001 of the refractive index of the charge oil, and having color substantially improved over that of the charge oil.

2,654,697
MOTOR FUEL
Harry J. Andress, Jr., Woodbury, and Frederick L. Nelson, Pitman, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application October 31, 1950, Serial No. 193,302
2 Claims. (Cl. 196—150)

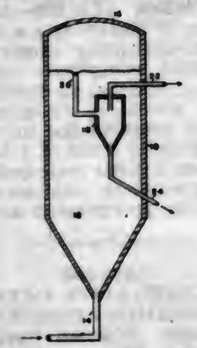
1. A motor fuel which comprises a gasoline, normally tending to form hard gummy deposits and to cause valve sticking when used in an internal combustion engine, containing between about 0.05% and about 0.30%, by volume, of a petrolatum stock having a Saybolt Universal viscosity at 210° F. of between about 95 and about 125 seconds, a melting point of between about 115° F. and about 135° F., an ASTM penetration at 77° F. of between about 60 and about 110, and which has no Kauri-butanol number.

2,654,698
LOW-TEMPERATURE DISTILLATION OF COAL
John A. Phinney, Mount Lebanon, Pa., assignor to Pittsburgh Consolidation Coal Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 3, 1950, Serial No. 159,727
7 Claims. (Cl. 202—9)



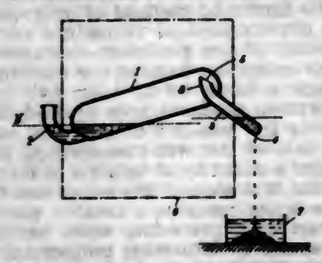
1. In the process for low temperature distillation of coal to yield gaseous and liquid products and a solid distillation residue composed of particles having substantially the same volatile matter content, the steps comprising circulating finely divided fresh coal of a predetermined particle size consistency through a distillation zone, circulating preheated finely divided previously distilled coal through said distillation zone in direct heat exchange relation with said fresh coal so as to form a mixture of solid products with said fresh coal, the heat required to effect distillation of said fresh coal being derived solely from said previously distilled coal, said previously distilled coal having a particle size consistency sufficiently different from that of said fresh coal to permit its ready separation from the distillation residue of said fresh coal, the total amount of distillation residue including previously distilled coal present in said distillation zone at any one time being sufficient to prevent agglomeration of said fresh coal by dilution thereof, recovering the gaseous and liquid products of distillation, separating the distillation residue of said fresh coal from said solid products, circulating at least a portion of the remaining solid products to a combustion zone where the temperature is raised by partial oxidation, recycling at least a portion of the partially oxidized solids to the distillation zone to serve as said preheated previously distilled coal, and replenishing said recycled previously distilled coal with a portion of the distillation residue.

2,654,699
METHOD OF DISCHARGING SOLIDS AND GASES FROM A FLUIDIZED BED
Carl E. Lesher, Ben Avon Heights, Pa., assignor to Pittsburgh Consolidation Coal Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application July 22, 1948, Serial No. 40,066
2 Claims. (Cl. 202—28)



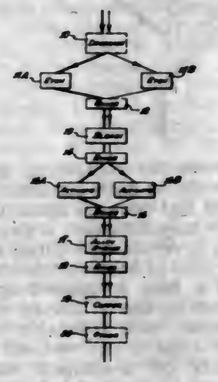
2. Method of treating solids and gases which comprises circulating gases through a bed of finely divided carbonaceous solids under fluidizing conditions in a confined contacting zone which is maintained at carbonization temperature, conducting the gases, including the tarry vaporous products of carbonization, escaping from the top of said bed and all solids above a predetermined level down through said bed out of direct contact with said bed but in heat exchange relation with said bed, separating the solids and gases while being so circulated through the bed, and withdrawing said separated solids and gases from said fluidized bed.

2,654,700
APPARATUS FOR METALS DISTILLATION
Roger Doucet, Ivry, France, assignor to Compagnie des Freins & Signaux Westinghouse, Paris, France
Application October 29, 1949, Serial No. 124,456
In France November 10, 1948
3 Claims. (Cl. 202—189)



1. In an apparatus for purifying a solid semiconductive substance, an inclined distillation retort, an inlet tube connected to the lower portion of said distillation retort and extending upwardly therefrom to form a seal, an inclined discharge tube extending into the upper end of the retort, said discharge tube having an open end forming an inlet opening inside the retort and a lower portion which is closed except for a small orifice, said orifice being of a size to prevent the discharge except on accumulation of a head of condensed material, and means for heating the lower portion of the retort.

2,654,701
PLATING ALUMINUM
Edwin R. Calderon and George W. Siemin, Los Angeles, Calif.
Application June 8, 1950, Serial No. 166,839
16 Claims. (Cl. 204—33)



1. A method of providing objects, composed essentially of aluminum, with a tenaciously adherent, fine grained alloy plating, comprising: etching the degreased surface of objects composed essentially of aluminum with an aqueous solution of alkali hydroxide and alkali fluoride and rinsing the etched surface; then treating the surface with diluted nitric acid and rinsing the surface; then forming a thin, adherent film of zinc on such treated surface; rinsing the activated surface and electroplating the activated surface with an aqueous strike solution containing cyanides of copper, zinc and a metal from the group consisting of silver, gold and indium, while imposing an electrical current upon the objects, said strike solution having a pH of between 9 and 10 and a surface tension below 45 dynes per square centimeter.

2,654,702
ELECTRODEPOSITION OF METAL FROM ALKALINE CYANIDE BATH
Herbert K. De Long, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
No Drawing. Application September 3, 1948, Serial No. 47,745
8 Claims. (Cl. 204—46)

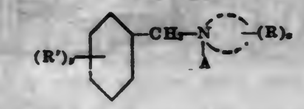
1. In a method of depositing an electroplate of a metal selected from the group consisting of copper, silver, and gold upon articles of magnesium and magnesium alloys from an aqueous alkaline cyanide plating solution having a pH of 9 to 13 and containing a cyanide of one of the metals selected from the group consisting of copper, silver, and gold and from 2 to 5 grams per liter of CN provided by an alkali metal cyanide by electrolyzing the solution with the article as cathode whereby the selected metal is electrodeposited on the article, the improvement which consists in dissolving in the plating solution a water-soluble inorganic fluoride selected from the group consisting of the alkali metal and ammonium fluorides in amount from 5 to 100 grams per liter of the plating solution.

2,654,703
ELECTRODEPOSITION OF BRIGHT NICKEL, COBALT, AND ALLOYS THEREOF
Henry Brown, Detroit, Mich., assignor to The Udylite Corporation, Detroit, Mich., a corporation of Delaware
No Drawing. Application September 9, 1950, Serial No. 184,129
4 Claims. (Cl. 204—49)

1. A bath for electrodepositing fine-grained, bright metal selected from the group consisting of nickel, cobalt, and alloys thereof, comprising an aqueous acid solution of a salt selected from the group consisting of the chloride, sulfate, and fluoborate salts of the metal to be deposited and mixtures of at least two of said salts, said metal being selected from the group consisting of nickel, cobalt, and mixtures thereof, said solution having dissolved therein an organic sulfinate in an amount falling within a range from about .005 gram per liter of solution to saturation.

2,654,704
ELECTROPLATING OF NICKEL
Henry Brown, and LeRoy B. High, Detroit, Mich., assignors to The Udylite Corporation, Detroit, Mich., a corporation of Delaware
No Drawing. Application September 16, 1950, Serial No. 185,316
10 Claims. (Cl. 204—49)

1. A bath for the electrodeposition of bright nickel comprising an aqueous acidic solution of a material selected from the group consisting of nickel chloride, nickel sulfate, nickel fluoborate, a mixture of nickel chloride and nickel sulfate, a mixture of nickel fluoborate and nickel chloride, a mixture of nickel fluoborate and nickel sulfate, and a mixture of nickel sulfate, nickel chloride and nickel fluoborate, said bath also containing, in solution, not more than about 1.5% of at least one brightener selected from the group consisting of organic sulfonamides, sulfonimides, and sulfonic acids, and, in addition, about 0.003 to 0.08 gram per liter of a bath-soluble compound in accordance with the formula

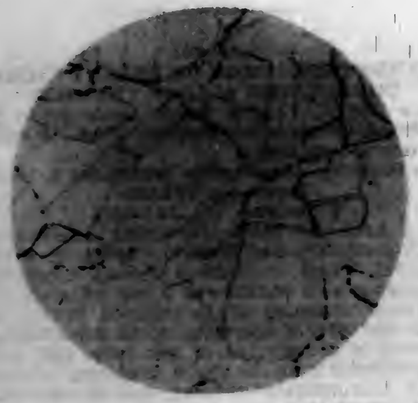


where



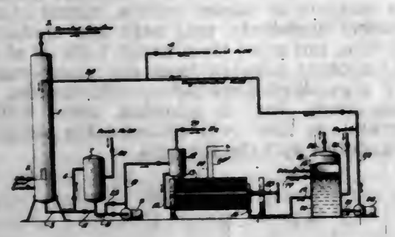
represents a compound of the quinoline series selected from the group consisting of quinoline, isoquinoline and C-methyl and ethyl homologues thereof, A is an anion of a water-soluble acid, R is halogen, R' is a member selected from the group consisting of halogen, nitro, methyl and fluoromethyl groups, and x and y are each zero to 2.

2,654,705
NICKEL PLATING
Bernard C. Case, Howell, Mich., assignor to Hanson-Van Winkle-Munning Company, Detroit, Mich., a corporation of New Jersey
Application November 24, 1950, Serial No. 197,317
9 Claims. (Cl. 204—49)



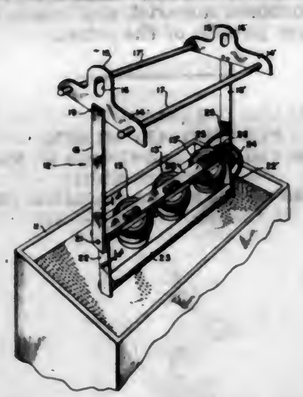
1. An anode for use in the electrodeposition of nickel consisting of a cathode sheet of electrolytic nickel having the normal columnar grain structure modified by heating to a temperature of from about 2200 degrees F. to slightly less than the melting point of nickel to an equi-axed grain structure with an average grain size not less than about 0.090 millimeter throughout the body thereof.

2,654,706
ELECTROLYTIC REGENERATION OF SPENT CAUSTIC
Peter J. Gaylor, Union, N. J., assignor of one-half to Charles W. Ripple, Summit, N. J.
Application December 10, 1949, Serial No. 132,274
12 Claims. (Cl. 204—153)



1. The process of regenerating spent aqueous caustic solution containing oxidizable sulphur-containing impurities which comprises passing a stream of the caustic solution through a diaphragm-type electrolytic cell having insoluble electrodes, impressing on said electrodes a current density of such intensity as to liberate nascent oxygen in direct contact with the oxidizable sulphur-containing impurities in the anolyte, and maintaining said solution in the cell, while such electrolysis continues, for a length of time sufficient to bring about oxidization of at least a substantial portion of the sulphur-containing impurities thereof.

2,654,707
ANODIZING RACK
Donald E. Saffel, Louisville, Ky., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Delaware
Application August 23, 1950, Serial No. 180,961
1 Claim. (Cl. 204—297)



A plating device for immersing container vessels into an anodizing bath consisting of a frame having a pair of flat parallel spaced-apart vertical metal frame members and a pair of substantially T-shaped inverted apertured end members secured to the tops of said vertical members and further having a pair of spaced-apart rods secured to the ends of the T-shaped end members, a flat longitudinal rack rotatably mounted between the lower ends of the vertical frame members, a plurality of U-shaped vessel holding brackets disposed in open sided slots positioned at one edge of said rack, a longitudinal lock bar having a plurality of apertures therein for removably securing said U-shaped brackets to said rack, a plurality of locked peg-nuts disposed in said apertures of said lock bar for locking said bar to said rack, a longitudinal float secured to the ends of said rack in spaced relation thereto, and a flat metal coil spring of several turns wound axially about one end of said rack and secured to the flat bottom thereof and secured at the other end to the flat inner face of one of said flat parallel vertical members for conducting an electrical current from said vertical members to said rack, whereby a plurality of container vessels secured to said racks at their vessel bottoms are gradually uniformly filled with anodizing solution upon lowering said vertical spaced-apart members into said anodizing bath.

2,654,708
COMPOUNDED HYDROCARBON OILS AND ADDITION AGENTS THEREFOR
Edward Mitchell, Pittsburgh, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application June 7, 1951, Serial No. 230,421
20 Claims. (Cl. 252—33.6)

1. A lubricant composition comprising a major amount of a hydrocarbon lubricating oil, and a minor amount, sufficient to confer improved detergent properties on the composition of a polyvalent metal salt of a monoamide of a dicarboxylic acid wherein the two N-substituents are selected from the group consisting of hydrogen, and alkyl and alkenyl radicals, at least one substituent being an organic radical of said group, and the total number of carbon atoms in the N-substituents is 8 to 22, and wherein said dicarboxylic acid is selected from the group consisting of unsubstituted and alkyl-substituted 2,5 - endoethylene - $\Delta^{3:4}$ - cyclohexene - 1,6 - dicarboxylic acids, said alkyl-substituted dicarboxylic acids having not more than 4 alkyl groups each having not more than 6 carbon atoms.

2,654,709
COMPOUNDED HYDROCARBON OILS AND ADDITION AGENTS THEREFOR
Edward Mitchell, Pittsburgh, and Willard B. Morse, New Kensington, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application June 7, 1951, Serial No. 230,422
20 Claims. (Cl. 252—33.6)

1. A lubricant composition comprising a major amount of a hydrocarbon lubricating oil, and a minor amount, sufficient to impart rust-inhibiting properties to the composition, of a polyvalent metal salt of the condensation product of (1) an alkanethiol having 1 to 17 carbon atoms in the alkyl group and (2) a monoamide of a dicarboxylic acid wherein the two N- substituents are selected from the group consisting of hydrogen, alkyl and alkenyl radicals, at least one substituent being an organic radical of said group, and wherein the total number of carbon atoms in the N- substituents is 8 to 22, and wherein said dicarboxylic acid is selected from the group consisting of unsubstituted and alkyl-substituted 2,5-endoethylene - $\Delta^{3:4}$-cyclohexene-1,6-dicarboxylic acids, said alkyl-substituted dicarboxylic acid having not more than four alkyl groups each having not more than 6 carbon atoms.

2,654,710
POLYSILOXANE-ALUMINUM SOAP GREASES
Bruce W. Hotten, Orinda, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware
No Drawing. Application June 22, 1951, Serial No. 233,113
10 Claims. (Cl. 252—37.2)

1. A grease composition comprising a major proportion of a polysiloxane base oil and a complex basic aluminum soap in an amount sufficient to thicken the polysiloxane base oil to the consistency of a grease, said complex basic aluminum soap having at least two unlike organo-anions, one organo-anion derived from an organic acid, the aluminum di-soap of which acid is characterized by an oil solubility of at least 5% at 400° F., and another organo-anion derived from an organic acid, the aluminum di-soap of which acid is characterized by an oil solubility of less than 1% at 400° F.

2,654,711
MONOCYCLIC TERPENE-SULFUR-PHOSPHORUS SULFIDE REACTION PRODUCT AND LUBRICATING OIL CONTAINING THE SAME
Abraham D. Kirshenbaum, Union, and Harry W. Rudel, Roselle Park, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application July 15, 1949, Serial No. 105,066
10 Claims. (Cl. 252—46.6)

1. A mineral lubricating oil composition containing 0.05 to 50% by weight of a product obtained by simultaneously reacting one molecular proportion of a monocyclic terpene with about 1.5 to about 2 atomic proportions of sulfur and with about 0.01 to about 0.25 molecular proportions of a sulfide of phosphorus at a temperature of at least 120° C. and up to a temperature of about 200° C.

2,654,712
SULFURIZED MONOCYCLIC TERPENES AND OIL COMPOSITIONS CONTAINING THEM
Elmer B. Cyphers, Cranford, and Adial E. Michaels, Linden, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application September 12, 1949, Serial No. 115,317
17 Claims. (Cl. 252—46.6)

1. A lubricating oil composition comprising about 88 to 99.99% by weight of a mineral base oil of lubricating grade, 0.01 to 5.0% of the reaction product of a monocyclic terpene $C_{10}H_{16}$ treated first with 25% to 54% of its weight of sulfur at a temperature range between 220° and 400° F. for a period of time sufficient to substantially complete its sulfurization and treated thereafter with 0.2 to 10%, based on the weight of the sulfurized terpene, of a phosphorus sulfide at a temperature within the range of 170° to 350° F. for a period of 1 to 20 hours, and 0 to 10% of an extreme pressure additive selected from the group consisting of chlorinated and sulfurized long chain hydrocarbons, sulfurized and phosphorized fatty oils, and sulfurized and phosphorized aliphatic esters.

3. As a new composition of matter, the reaction product of a monocyclic terpene $C_{10}H_{16}$ treated first with about 25 to 54% of its weight of sulfur at a temperature within the range of 220° to 400° F. until substantial completion of reaction and treated subsequently with about 0.2 to 10%, based on the weight of the sulfurized terpene, of a phosphorus sulfide at a temperature within the range of 170° to 350° F. for 1 to 20 hours.

2,654,713
PULVERIZABLE AND READILY SOLUBLE BRIGHTENING AGENTS
Fritz Fleck, Basel, Switzerland, assignor to Sandoz A. G., Basel, Switzerland
No Drawing. Application November 18, 1952, Serial No. 321,288. In Switzerland November 22, 1951
8 Claims. (Cl. 252—301.2)

3. A pulverizable and readily water-soluble brightening agent, consisting essentially of a mixture of a member selected from the group consisting of 4-methyl-7-diethylamino-coumarin and salts thereof with a water-soluble acid with several-fold the quantity by weight, relative to the weight of the 4-methyl-7-diethylamino-coumarin, of a water-soluble solid acid salt of a strong inorganic acid.

2,654,714
PROCESS OF BREAKING PETROLEUM EMULSIONS AND COMPOSITIONS THEREFOR
Willard H. Kirkpatrick, Sugar Land, Tex., assignor to Visco Products Company, Sugar Land, Tex., a corporation of Delaware
No Drawing. Application November 16, 1950, Serial No. 196,084
12 Claims. (Cl. 252—332)

1. A process of breaking water-in-oil emulsions which comprises treating such emulsions with an

inorganic ester of an oxygen containing inorganic acid and an aliphatic polyoxyalkylene compound having a terminal hydroxy group in which the major proportion of the average molecular weight is attributable to oxyalkylene groups from the group consisting of oxypropylene groups and mixed oxyethylene and oxypropylene groups having a weight ratio of oxyethylene to oxypropylene not exceeding 4:1 and the average molecular weight is at least 1000 where the oxyalkylene groups are both oxyethylene and oxypropylene and at least 1200 where the oxyalkylene groups are solely oxypropylene groups.

2,654,715

ANIMALIZATION OF CELLULOSE

James K. Dixon, Riverside, and Norman T. Woodberry, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 25, 1950, Serial No. 181,564
6 Claims. (Cl. 260—15)

1. A process which comprises adding to a viscose dope a cationic colloidal solution of an aminotriazine-aldehyde resin containing acid, and regenerating the cellulose whereby a material having an affinity for wool dyestuffs is obtained.

2,654,716

PLASTIC MOLDING POWDER AND THE MANUFACTURE THEREOF

Roy A. Sorenson, Fords, N. J., assignor to Nixon Nitration Works, Nixon, N. J., a corporation of New Jersey

No Drawing. Application April 7, 1951, Serial No. 219,888
6 Claims. (Cl. 260—17)

1. Plastic molding powder formed from vinylidene chloride resin polymer coated cellulose acetate products which have been compounded into a mixed mass with a stabilizer that is compatible with said cellulose acetate and vinylidene chloride resin polymer and a plasticizer that is compatible with said cellulose acetate and is solvent for the said vinylidene chloride resin polymer.

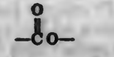
2,654,717

CURING POLYMERS OF MONOETHYLENIC ETHERS AND ETHER-ESTERS

Chessie E. Rehberg, Glenside, and Charles H. Fisher, Abington, Pa., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application October 29, 1948, Serial No. 57,404
11 Claims. (Cl. 260—23)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. The process of producing infusible, insoluble polymeric products which comprises heating an organic solvent-soluble, thermoplastic polymer of a monoethylenic monomer selected from the group consisting of ethers and ether esters containing the terminal group $CH_2{=}CHR{-}$ directly attached to a group from the class consisting of —O— and



said R being selected from the group consisting of H— and $—CH_3$, said monomeric compound being free from any polymerizable unsaturation other than that defined above, at a temperature of about 75° to 200° C. in the presence of free oxygen and of an organic solvent-soluble metal salt of an organic acid which catalyzes the drying of paint and varnishes as a reaction catalyst, said metal being selected from the group consisting of cobalt, nickel, manganese, zinc, and lead, the reactants above-identified being the sole reactants present.

2,654,718

STABILIZER COMPOSITION AND STABILIZED VINYL RESIN

Oliver J. Grummitt and Robert E. Blank, Cleveland, and Dean Marsh, Cleveland Heights, Ohio, assignors to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application November 27, 1950, Serial No. 197,344
17 Claims. (Cl. 260—23)

12. A composition of matter comprising a stable homogeneous mixture of from about 20% to 70% by weight of disodium hydrogen phosphate dodecahydrate in a bodied glyceride oil having a viscosity of from about 40 to 1100 seconds (Gardner-Holdt), the water present in said homogeneous mixture being chemically associated with the disodium hydrogen phosphate salt in the ratio of 12 mols of water to 1 mol of the disodium hydrogen phosphate salt and said homogeneous mixture being dispersed in a halogen-containing resinous polymeric material in the proportion of from .1 to 10 parts per 100 parts of resin.

2,654,719

PLASTICIZERS AND PLASTIC COMPOSITIONS

Edmund H. Schwencke, New York, N. Y., assignor to Elastomer Chemical Corporation, Nutley, N. J., a corporation of New Jersey

No Drawing. Application May 22, 1947, Serial No. 749,879
4 Claims. (Cl. 260—23)

1. A plasticizer for polyvinyl chloride and copolymers of vinyl chloride and vinyl acetate comprising a hydrocarbon oil which is at least 90% aromatic and characterized by the predominance of three and four ringed molecules containing two to four short alkyl side chains, said oil having a specific gravity greater than one, a mixed aniline point critical solution temperature between 65–75° F., a boiling range between approximately 580–760° F., said hydrocarbon oil having dissolved therein a water insoluble metal stearate in quantity not greater than 2% of the weight of the hydrocarbon oil and having incorporated therein acetylene in quantity not greater than

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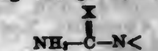
2,654,720

TREATMENT OF TEXTILES AND N-HALOGENATED AMINE-ALDEHYDE AGENTS THEREFOR

Oscar P. Cohen, Chestnut Hill, and Elmer H. Rossin, Melrose, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application May 31, 1951, Serial No. 229,280
20 Claims. (Cl. 260—29.4)

1. A finishing composition for textile materials comprising a neutral to alkaline aqueous solution comprising a water-soluble N-halogenated condensation product selected from the group consisting of water-soluble N-halogenated aminotriazine-formaldehyde condensation products, water-soluble N-halogenated aliphatic amine-formaldehyde condensation products, and water-soluble N-halogenated methylated derivatives of said condensation products, said aliphatic amine containing from 1 to 4 carbon atoms and having the grouping



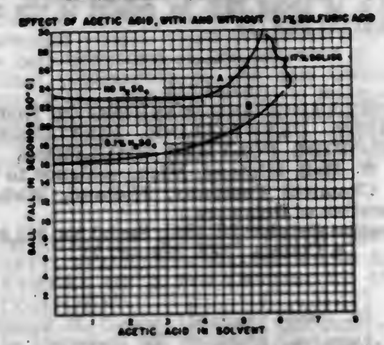
where X is selected from the group consisting of oxygen, sulfur, and an imido group and the free valences on the nitrogen are attached to atoms selected from the group consisting of hydrogen and carbon atoms, said aliphatic amine being further characterized in that it contains no atoms other than those defined in the foregoing formula, said N-halogenated condensation product being further characterized in that it contains available halogen and is prepared by contacting a compound selected from the group consisting of free halogen and compounds capable of liberating free halogen in a neutral to alkaline aqueous solution with the corresponding water-soluble unhalogenated condensation product, which contains a replaceable hydrogen atom on a nitrogen atom thereof, in a neutral to aqueous solution.

2,654,721

SOLUTIONS OF POLYMERIC MATERIALS COMPRISING AT LEAST 80 PER CENT OF POLYMERIZED ACRYLONITRILE

Marion R. Lytton, West Chester, Pa., assignor, by mesne assignments, to The Chemstrand Corporation, Decatur, Ala., a corporation of Delaware

Application June 11, 1951, Serial No. 230,836
14 Claims. (Cl. 260—30.8)



1. As a composition of matter, a solution of N,N-dimethylacetamide containing dissolved therein, a polymeric material comprising at least 80% by weight of polymerized acrylonitrile, from 2% to about 8% by weight of acetic acid, and from 0.05 to 0.25% of an acid selected from the group consisting of sulfuric acid and sulfamic acid, based on the weight of the solution, said solution having a viscosity in the range suitable for spinning shaped articles therefrom.

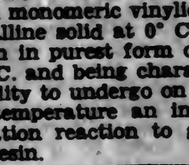
2,654,722

STABILIZED SOLID ORGANIC COMPOSITIONS CONTAINING ACYL-P-AMINOPHENOLS

David W. Young, Roselle, and Delmer L. Cottle, Highland Park, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application September 16, 1950, Serial No. 185,336
7 Claims. (Cl. 260—31.2)

1. A stabilized solid synthetic rubber composition comprising a synthetic rubber having admixed therewith a minor proportion effective as an anti-oxidant of an acyl-p-aminophenol, corresponding to the general formula



wherein R is a hydrocarbon radical having at least two carbon atoms.

2,654,723

POLYVINYL COMPOSITION AND METHOD OF MAKING SAME

Charles E. Greene, Akron, Ohio, assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio

No Drawing. Application November 1, 1950, Serial No. 193,528
6 Claims. (Cl. 260—31.4)

1. A composition containing from 25 to 95 per cent of a solid polymeric vinyl chloride and 5 to 75 per cent of a diester of a monocarboxylic keto aliphatic acid of not in excess of five carbon atoms and of a glycol having less than eight carbon atoms and having only two hydroxyl groups both of which are on terminal carbon atoms.

2,654,724

COPOLYMERS OF VINYLIDENE CYANIDE WITH ALKYL VINYL KETONES

Harry Gilbert, Cuyahoga Falls, and Floyd F. Miller, Wadsworth, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application June 24, 1952, Serial No. 295,250
7 Claims. (Cl. 260—63)

1. A copolymer of monomers consisting of vinylidene cyanide and alkyl vinyl ketone, the vinylidene cyanide units in said copolymer being derived from monomeric vinylidene cyanide which is a crystalline solid at 0° C., having a melting point when in purest form of substantially 9.0° C. to 9.7° C. and being characterized chemically by the ability to undergo on contact with water at room temperature an instantaneous homopolymerization reaction to give a solid water-insoluble resin.

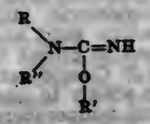
2,654,725

POLYMERIZABLE AND POLYMERIZED COMPOSITIONS COMPRISING AN N-ALKENYL-O-ALKYLISOUREA

John A. Price, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application October 24, 1951, Serial No. 253,007
18 Claims. (Cl. 260—77.5)

1. A polymerizable composition comprising, by weight, (1) from about 1% to about 75% of an N-alkenyl-O-alkylisourea by the general formula



where R represents a member of the class consisting of hydrogen, alkyl radicals, alkenyl radi-

cals containing from 2 to 10 carbon atoms, inclusive, and aryl radicals, R' represents an alkyl radical, and R'' represents an alkenyl radical containing from 2 to 10 carbon atoms, inclusive, and (2) from about 25% to about 99% of a compound which is different from the compound of (1), is copolymerizable therewith and which contains a $CH_2=C<$ grouping.

2,654,726

POLYSULPHONE AMINOTRIAZOLES

James Wotherspoon Fisher, Edward William Wheatley, and Geoffrey Bilson May, Spondon, near Derby, England, assignors to British Celanese Limited, a company of Great Britain

No Drawing. Application June 9, 1950, Serial No. 167,264. In Great Britain July 11, 1949

2 Claims. (Cl. 260—78.4)

1. Process for the production of a polysulphone-aminotriazole, which comprises heating a dihydrazide of a sulphone dicarboxylic acid, whose carboxylic groups are its sole reactive groups and in which sulphone and carboxylic groups are separated from each other by at least three methylene groups, together with sufficient hydrazine to yield a polymer resistant to hydrolysis by hydrochloric acid, and continuing the heating until such polymer is produced.

2,654,727

ESTERS OF THIOPHENE-MODIFIED MALEIC ANHYDRIDE-STYRENE COPOLYMERS

Ferdinand P. Otto and Orland M. Reiff, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Original application September 29, 1949, Serial No. 118,708. Divided and this application June 27, 1951, Serial No. 233,938

10 Claims. (Cl. 260—78.5)

1. As a new composition of matter, a reaction product prepared by the steps of (1) reacting together (*a*) about 1 mole of maleic anhydride, (*b*) about 1 mole of styrene and (*c*) from about 1 to about 10 moles of a thiophene compound selected from the group consisting of thiophene and alkyl-substituted thiophenes containing no substituent groups other than alkyl groups, at a temperature of from about 75° C. to about 125° C., and (2) esterifying the product obtained in step (1) with a primary, normal, saturated alcohol having from about 10 to about 18 carbon atoms.

2,654,728

COPOLYMERS OF VINYLIDENE CYANIDE WITH DIFLUORODICHLOROETHYLENES

Harry Gilbert, Cuyahoga Falls, and Floyd F. Miller, Wadsworth, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application June 24, 1952, Serial No. 295,249

7 Claims. (Cl. 260—78.5)

1. A two component copolymer of vinylidene cyanide with a difluorodichloroethylene, the vinylidene cyanide units in said copolymer being derived from monomeric vinylidene cyanide which is a crystalline solid at 0° C., having a melting point when in purest form of substantially 9.0° C. to 9.7° C. and being characterized chemically by the ability to undergo on contact with water at room temperature an instantaneous homopolymerization reaction to give a solid water-insoluble resin.

2,654,729

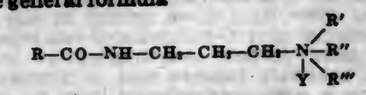
POLYMERIZABLE COMPOSITIONS COMPRISING AN UNSATURATED QUATERNARY AMMONIUM COMPOUND AND POLYMERIZATION PRODUCTS THEREOF

John A. Price, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

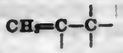
No Drawing. Application July 28, 1952, Serial No. 301,265

17 Claims. (Cl. 260—85.5)

1. A polymerizable composition comprising (1) a quaternary ammonium compound represented by the general formula



where R represents an aliphatic hydrocarbon radical containing at least 7 carbon atoms, R' represents an ethylenically unsaturated hydrocarbon radical having a terminal



grouping and containing from 3 to 10 carbon atoms, inclusive, R'' represents a radical selected from the class consisting of alkyl and hydroxyalkyl radicals containing from 1 to 5 carbon atoms, inclusive, R''' represents a radical selected from the class consisting of alkyl, hydroxyalkyl and aralkyl radicals, and Y represents an anion, and (2) a compound which is different from the compound of (1), is copolymerizable therewith and contains a $CH_2=C<$ grouping, the quaternary ammonium compound of (1) constituting from about 1% to about 50% by weight of the total amount of (1) and (2).

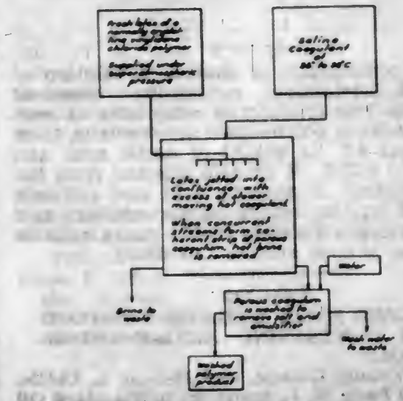
2,654,730

COAGULATION AND WASHING OF NORMALLY CRYSTALLINE VINYLIDENE CHLORIDE POLYMER EMULSIONS

Harold W. Moll, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Application October 18, 1951, Serial No. 251,987

4 Claims. (Cl. 260—87.7)



1. The method which comprises jetting freshly prepared latex-like dispersion of a normally crystalline vinylidene chloride polymer resulting from the emulsion polymerization of the corresponding monomeric material, before the polymer therein is substantially crystalline, into an excess of a confluent but slower moving stream of

an aqueous saline coagulant which is at a temperature of about 95° to 98° C., the said polymer latex being supplied to its point of discharge into the coagulant under a superatmospheric pressure, causing the latex and brine to move together until a coherent mass of coagulum is formed, separating the hot brine from the porous, coherent strip of coagulum, and washing the coagulum with water to remove salt and emulsifier therefrom.

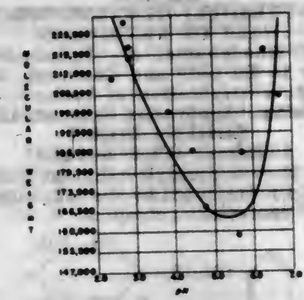
2,654,731

POLYMERIZATION CONTROL OF ACRYLONITRILE

Hugh T. Patterson, Waynesboro, Va., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

Application January 19, 1951, Serial No. 206,762

10 Claims. (Cl. 260—88.7)



1. A process for the polymerization of acrylonitrile to a polymer having a uniform high molecular weight which comprises carrying out the polymerization in the presence of a water-soluble perdisulfate as the sole catalyst in a medium the acidity of which is maintained, by adding acid during polymerization, at a substantially constant pH which has a value between about 4.0 to about 6.3.

2,654,732

LUMINESCENT RESINS FROM ARYL-SUBSTITUTED ALKYL HALIDES AND ALKENYL ETHERS OF A POLYHYDROXY ORGANIC COMPOUND

Edward M. Geiser, Downers Grove, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application November 23, 1951, Serial No. 257,955

19 Claims. (Cl. 260—91.1)

1. A process for the production of a fluoroscent resinous material which comprises reacting an aryl-substituted alkyl halide with an alkenyl ether of a polyhydroxy organic compound in the presence of an aqueous alkaline medium at condensation reaction conditions.

2,654,733

ORGANIC AMMONIUM HYDROSULFIDE-HYDROGEN SULFIDE REACTION PRODUCTS AND METHOD FOR PRODUCING THE SAME

David E. Adelson, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application August 1, 1949, Serial No. 108,966

12 Claims. (Cl. 260—125)

1. A novel composition of matter comprising a product obtained by reacting an olefinically unsaturated organic material with ammonium hydrosulfide-hydrogen sulfide at a temperature below about 100° C.

2,654,734

METHOD FOR SUBJECTING DISCRETE UNITS OF SOLID MATERIALS TO TREATMENT BY GASEOUS MEDIUMS

Bronson C. Skinner, Dunedin, Fla., assignor to Clinton Foods Inc., New York, N. Y., a corporation of Delaware

Application January 21, 1948, Serial No. 3,516

5 Claims. (Cl. 260—209.5)

1. In a method of making a pectin product the procedure of preheating pieces of citrus fruit peel comprising continuously moving a mass thereof up through an elongated enclosed space, and continuously introducing hot lighter-than-air vapors into the enclosed space substantially at the highest point thereof thoroughly to displace the air in the space and to subject the mass for a few minutes as it is moved through the enclosed space to thorough action of the hot vapors and to break down the semi-permeable membrane of the living cells in the peel permitting diffusion out of the peel pieces into a subsequent washing liquid of at least certain proportions of sugars and other extraneous undesirable substances including bitter principle which are in solution in the cell sap so that they can be eliminated during subsequent washing and to weight the peel pieces to assure sinking thereof in the washing liquid.

2,654,735

PROCESS FOR THE PRODUCTION OF DERIVATIVES OF 9-POLYHYDROXYALKYL-ISOALLOXAZINES AND PRODUCTS OBTAINED

Casimir Funk, New York, and A Jay Merritt, Elmont, N. Y., assignors to U. S. Vitamin Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application July 29, 1949, Serial No. 107,623

13 Claims. (Cl. 260—211.3)

1. A process for the production of derivatives of a 9-polyhydroxyalkyl-isoalloxazine which comprises reacting a mixture containing a 9-polyhydroxyalkyl-isoalloxazine, a nicotinic compound selected from the group consisting of nicotinamide, nicotinic acid and the calcium, sodium and potassium salts thereof, and hydrated phosphorus oxychloride.

2,654,736

STABILIZED STARCH DERIVATIVES

Carlyle G. Caldwell, Forest Hills, and Otto B. Wurzburg, Babylon, N. Y., assignors to National Starch Products Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application February 2, 1949, Serial No. 74,235

12 Claims. (Cl. 260—233.5)

1. The method of making a starch derivative which consists in reacting starch in the presence of moisture with a beta-lactone.

2,654,737

PROCESS OF PREPARING DERIVATIVES OF ETHYLENEIMINE

Herbert Bestian, Frankfurt am Main Hochst, Germany, assignor to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius und Bruning, Frankfurt am Main Hochst, Federal Republic of Germany, a company of the Federal Republic of Germany

No Drawing. Application September 13, 1950, Serial No. 184,708. In Germany September 26, 1949

2 Claims. (Cl. 260—239)

1. The process which comprises reacting, in the presence of alkali metals, ethylene imine with a hydrocarbon selected from the group consisting of butadiene and styrene.

2,654,738

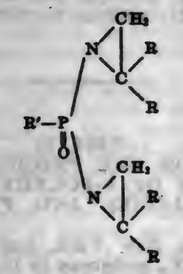
ORGANIC DERIVATIVES OF PHOSPHONIC ACIDS AND METHOD OF PREPARING THE SAME

Hans Z. Lecher, Plainfield, and Erwin Kuh, New Brunswick, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 2, 1952, Serial No. 302,406

18 Claims. (Cl. 260—239)

1. Compounds of the group having the general formula:



in which R is a member of the group consisting of hydrogen and lower alkyl radicals and R' is selected from the group consisting of alkyl, alkenyl, cycloalkyl and aryl radicals.

2,654,739

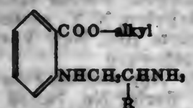
SALTS OF PENICILLIN WITH O-(2-AMINOALKYLAMINO)-BENZOIC ACID ESTERS

Harley W. Rhodehamel, Jr., Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application February 13, 1952, Serial No. 271,428

5 Claims. (Cl. 260—239.1)

1. A salt having as its components pencillin and a base being represented by the formula



in which R is a member of the group consisting of hydrogen and a lower alkyl radical, and alkyl is a lower alkyl group.

2,654,740

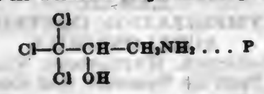
2-HYDROXY-3,3,3-TRICHLORO-1-AMINOPROPANE SALT OF PENICILLIN

Harley W. Rhodehamel, Jr., Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application February 13, 1952, Serial No. 271,430

2 Claims. (Cl. 260—239.1)

1. The 2-hydroxy-3,3,3-trichloro-1-aminopropane salt of penicillin represented by the following formula in which P represents penicillin:



2,654,741

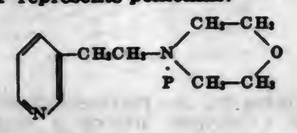
N-β-(3-PYRIDYL)-ETHYLMORPHOLINE SALT OF PENICILLIN

Harley W. Rhodehamel, Jr., Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application February 13, 1952, Serial No. 271,431

2 Claims. (Cl. 260—239.1)

1. The N-β-(3-pyridyl)-ethylmorpholine salt of penicillin represented by the following formula in which P represents penicillin:



2,654,742

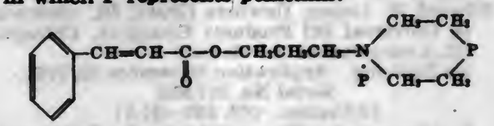
GAMMA-MORPHOLINOPROPYL CINNAMATE SALT OF PENICILLIN

Harley W. Rhodehamel, Jr., Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application February 13, 1952, Serial No. 271,432

2 Claims. (Cl. 260—239.1)

1. The γ-morpholinopropyl cinnamate salt of penicillin represented by the following formula in which P represents penicillin:



2,654,743

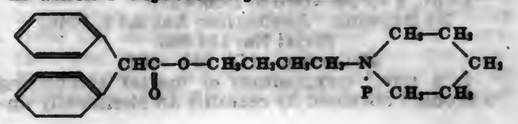
DELTA-PIPERIDINOBUTYL DIPHENYLACETATE SALT OF PENICILLIN

Harley W. Rhodehamel, Jr., Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application February 13, 1952, Serial No. 271,433

2 Claims. (Cl. 260—239.1)

1. The Δ-piperidinobutyl diphenylacetate salt of penicillin represented by the following formula in which P represents penicillin:



2,654,744

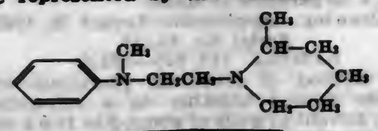
β-(2-METHYLPIPERIDINO) ETHYLMETHYLPHENYLAMINE SALT OF PENICILLIN

Harley W. Rhodehamel, Jr., Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application February 13, 1952, Serial No. 271,435

2 Claims. (Cl. 260—239.1)

1. A salt having as its components penicillin and β-(2-methylpiperidino) ethylmethylphenylamine represented by the formula:



2,654,745

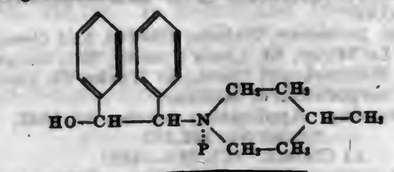
1,2-DIPHENYL-2-(4-METHYLPIPERIDINO) ETHANOL SALT OF PENICILLIN

Harley W. Rhodehamel, Jr., Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application February 13, 1952, Serial No. 271,436

2 Claims. (Cl. 260—239.1)

1. The 1,2-diphenyl-2-(4-methylpiperidino) ethanol salt of penicillin represented by the following formula in which P represents penicillin:



2,654,746

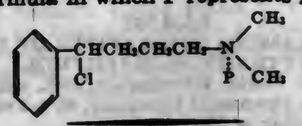
1-DIMETHYLAMINO-4-CHLORO-4-PHENYLBUTANE SALT OF PENICILLIN

Harley W. Rhodehamel, Jr., Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application February 13, 1952, Serial No. 271,437

2 Claims. (Cl. 260—239.1)

1. The 1-dimethylamino-4-chloro-4-phenylbutane salt of penicillin represented by the following formula in which P represents penicillin:



2,654,747

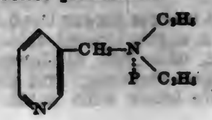
3-DIETHYLAMINOMETHYLPYRIDINE SALT OF PENICILLIN

Harley W. Rhodehamel, Jr., Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application February 13, 1952, Serial No. 271,441

2 Claims. (Cl. 260—239.1)

1. The 3-diethylaminomethylpyridine salt of penicillin represented by the following formula in which P represents penicillin:



2,654,748

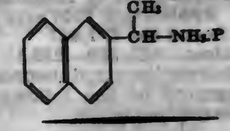
1-β-NAPHTHYL-1-AMINOETHANE SALT OF PENICILLIN

Harley W. Rhodehamel, Jr., Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application February 13, 1952, Serial No. 271,442

2 Claims. (Cl. 260—239.1)

1. The 1-β-naphthyl-1-aminoethane salt of penicillin represented by the following formula in which P represents penicillin.



2,654,749

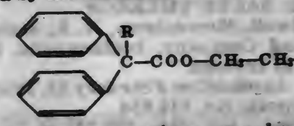
SALTS OF PENICILLIN WITH DIMETHYLAMINO, DIPHENYL-SUBSTITUTED ESTERS

Harley W. Rhodehamel, Jr., Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application February 13, 1952, Serial No. 271,443

3 Claims. (Cl. 260—239.1)

1. A salt of penicillin with a compound represented by the formula:



wherein R represents a member of the group consisting of hydrogen and hydroxyl.

2,654,750

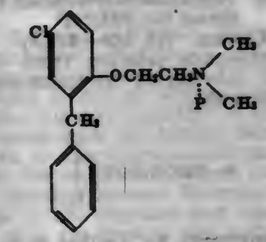
PENICILLIN SALT OF AN AMINE

Harley W. Rhodehamel, Jr., Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application February 13, 1952, Serial No. 271,444

2 Claims. (Cl. 260—239.1)

1. The 1-dimethylamino-2-(2'-benzyl-4'-chloro)-phenoxyethane salt of penicillin represented by the following formula in which P represents penicillin:



2,654,751

SUBSTITUTED 2-METHYLPIPERIDINOPROPYL BENZOATE SALTS OF PENICILLIN

Harley W. Rhodehamel, Jr., Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application February 13, 1952, Serial No. 271,446

3 Claims. (Cl. 260—239.1)

1. A salt of penicillin with a compound of the group consisting of 2-methylpiperidinopropyl-

3,4-dichlorobenzoate and 2-methylpiperidinopropyl-3,5-dimethoxybenzoate.

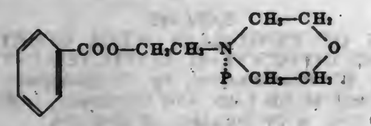
2,654,752

BETA-4-MORPHOLINOETHYL-BENZOATE SALT OF PENICILLIN

Harley W. Rhodehamel, Jr., Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application February 13, 1952, Serial No. 271,447
2 Claims. (Cl. 260—239.1)

1. The β-4-morpholinoethyl benzoate salt of penicillin represented by the following formula in which P represents penicillin:



2,654,753

2-SULFANILAMIDO-5-AMINOPYRIMIDINE AND SALTS THEREOF

William T. Caldwell, Moorestown, N. J., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application February 12, 1951, Serial No. 210,634
5 Claims. (Cl. 260—239.75)

1. A member of the group consisting of 2-sulfanilamido-5-aminopyrimidine and its alkali metal, alkaline earth metal and ammonium salts.

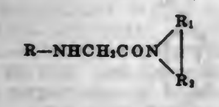
2,654,754

SUBSTITUTED GLYCINAMIDES

William F. Bruce, Havertown, and Joseph Seifter, Willow Grove, Pa., assignors, by mesne assignments, to American Home Products Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 16, 1950, Serial No. 201,241
9 Claims. (Cl. 260—247.2)

1. New compounds selected from the group consisting of substituted glycinamides having the general formula



wherein R represents an aralkyl radical of the group consisting of phenyl-lower alkyl, lower-alkoxy substituted phenyl-lower alkyl and hydroxy-substituted phenyl-lower alkyl radicals, while



represents a nitrogen-containing heterocyclic nucleus selected from the group consisting of piperidine, morpholine and 3-lower alkyl-1,2,3,4-tetrahydro isoquinoline; and the non-toxic acid-addition salts thereof.

2,654,755

METHOD OF SYNTHESIZING PTERIDINES

Marvin J. Fahrenbach, Westfield, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 26, 1948, Serial No. 46,359
9 Claims. (Cl. 260—251.5)

1. A method of preparing pteridines which comprises mixing together in a substantially aqueous solvent at a pH of about 9 to 11.5 a member of the group consisting of 2-amino-4-hydroxy-6-bromomethylpteridines and 2-amino-4-hydroxy-7-bromomethylpteridines with a member of the group consisting of para-aminobenzoic acid and its salts, esters and amides and after reaction thereof recovering the pteridine formed.

2,654,756

PROCESS OF PREPARING CODEINONE, DIHYDROCODEINONE, AND DIHYDROMORPHINONE

August H. Homeyer, Webster Groves, and George B. De La Mater, St. Louis County, Mo., assignors to Mallinckrodt Chemical Works, St. Louis, Mo., a corporation of Missouri

No Drawing. Application October 20, 1949, Serial No. 122,587
11 Claims. (Cl. 260—285)

1. The process for preparing a substance selected from the group consisting of dihydrocodeinone, dihydromorphinone and codeinone which comprises reacting the corresponding hydroxy compound selected from the group consisting of dihydrocodeine, dihydroisocodeine, codeine and dihydromorphine, in the presence of an aluminum tertiary-alkoxide and a solvent, with a ketone from the group consisting of cyclohexanone and alkoxy-substituted cyclohexanones.

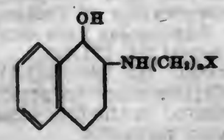
2,654,757

2-ETHYLAMINO DERIVATIVES OF 1,2,3,4-TETRAHYDRONAPHTHOL

John Frank Lontz, Wilmington, Del., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application September 10, 1951, Serial No. 245,974
6 Claims. (Cl. 260—294.7)

1. Compounds selected from the class consisting of bases having the formula:



in which n is an integer larger than 1 and smaller than 4 and X is a substituent selected from the group consisting of amino, di (lower alkyl) amino and piperidino radicals; and the acid addition salts of the bases with acids.

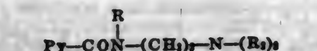
2,654,758

SUBSTITUTED ETHYLENEDIAMINE DERIVATIVES

Domenick Papa, Brooklyn, Nathan Sperber, Bronx, and Frank Villani, Brooklyn, N. Y., assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Application August 20, 1948, Serial No. 46,924
14 Claims. (Cl. 260—295)

1. Compounds of the group consisting of bases of the formula



wherein Py is a pyridine ring, R_1 is selected from the group consisting of phenyl, benzyl and the mono- lower alkyl, mono-chloro and mono- lower alkoxy ring substitution products and R_2 is a lower alkyl group, and the non-toxic salts thereof.

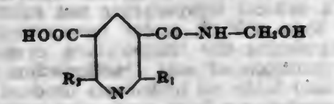
2,654,759

DERIVATIVES OF N-HYDROXYMETHYL NICOTINIC ACID AMIDE AND A PROCESS FOR THE PRODUCTION THEREOF

Hans Suter, Dorflingen, and Ernst Habicht and Werner Kündig, Schaffhausen, Switzerland, assignors to Ciba Limited, Schaffhausen, Switzerland, a Swiss company

No Drawing. Application April 12, 1951, Serial No. 220,728. In Switzerland April 17, 1950
6 Claims. (Cl. 260—295.5)

1. New chemical compounds selected from the group consisting of pyridine - 3,5 - dicarboxylic acid-N-methylolamides of the general formula



in which R_1 and R_2 are substituents selected from the group consisting of hydrogen atoms and lower alkyl radicals, and alkali metal salts of said pyridine-3,5-dicarboxylic acid N-methylolamides.

2,654,760

PREPARATION OF 4-METHYL-5-(β-HYDROXYETHYL)-THIAZOLE

Thomas E. Londergan, Niagara Falls, and William R. Schmitz, Grand Island, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 20, 1952, Serial No. 272,694
11 Claims. (Cl. 260—302)

1. The method of preparing 4-methyl-5-(β-hydroxyethyl) thiazole comprising reacting thioformamide with a dihalo compound from the group consisting of 2,3-dichlorotetrahydro-2-methylfuran and 2,3 - dibromotetrahydro - 2-methylfuran.

2,654,761

IODINATED MERCAPTO-IMIDAZOLES

Charles F. Huebner, Morristown, and Caesar R. Scholz, Summit, N. J., assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J., a corporation of New Jersey

No Drawing. Application July 14, 1951, Serial No. 236,861
15 Claims. (Cl. 260—309)

1. An iodinated mercapto-imidazole of the formula



where R stands for a member selected from the group consisting of hydrogen and lower alkyl, R^1 stands for a member selected from the group consisting of hydrogen, lower alkyl and iodine, X stands for a member selected from the group consisting of hydrogen and iodine, at least one of R^1 and X being iodine.

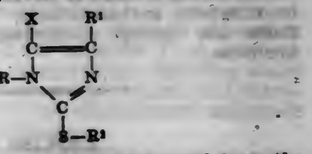
2,654,762

IODINATED SUBSTITUTED MERCAPTO-IMIDAZOLES

Charles F. Huebner, Morristown, and Caesar R. Scholz, Summit, N. J., assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J., a corporation of New Jersey

No Drawing. Application July 14, 1951, Serial No. 236,862
20 Claims. (Cl. 260—309)

1. An iodinated substituted mercapto-imidazole which corresponds to the formula



wherein R stands for a member selected from the group consisting of hydrogen and lower alkyl, R^1 stands for a member selected from the group consisting of hydrogen, lower alkyl and iodine, at least one of R^1 and X being iodine, and R^2 stands for a member selected from the group consisting of lower alkyl, mononuclear and binuclear carbocyclic arylmethyl radicals, and a radical derived from lower α-halogen carboxylic acid.

2,654,763

PREPARATION OF DIALKYL GLYCOLURILS

Homer B. Adkins, Madison, Wis., assignor to the United States of America as represented by the Secretary of the Navy

No Drawing. Application April 17, 1943, Serial No. 483,499
3 Claims. (Cl. 260—309.7)

1. A method for preparing a dialkyl glycoluril which comprises nitrosating a 1.2-dialkyl ketone to the ketone oxime by adding an alkali metal nitrite to the ketone in solution in dilute aqueous strong mineral acid, the ketone being in excess, adding urea to the aqueous nitrosation reaction mixture in the presence of dilute strong mineral acid and effecting therein, hydrolysis of the ketone oxime to the diketone and condensation of the latter with the urea to the dialkyl glycoluril.

2,654,764

PYRROLIDINE ANALGESIC

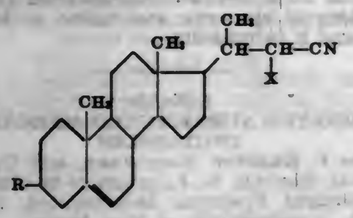
Carl von Seemann and Gordon A. Grant, Montreal, Quebec, Canada, assignors to Ayerst, McKenna & Harrison, Limited, St. Laurent, Quebec, Canada, a corporation of Canada

No Drawing. Application September 12, 1950, Serial No. 184,517. In Canada August 23, 1950
1 Claim. (Cl. 260—326.5)

The compound 2,4-dioxo-3-ethyl-3-(β-ethoxyethyl)-pyrrolidine.

2,654,765
STEROID HALONITRILES
Frederick W. Heyl and Milton E. Herr, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan
No Drawing. Application February 23, 1950, Serial No. 145,894
9 Claims. (Cl. 260—397.5)

1. A member of the group of compounds represented by the formula:



wherein R is a radical of the group consisting of acyloxy radicals of unsubstituted monocarboxylic organic acids having up to and including eleven carbon atoms and hydrocarbonoxy radicals in which the hydrocarbon portion contains from one to nineteen carbon atoms, inclusive and X is from the group consisting of chlorine and bromine.

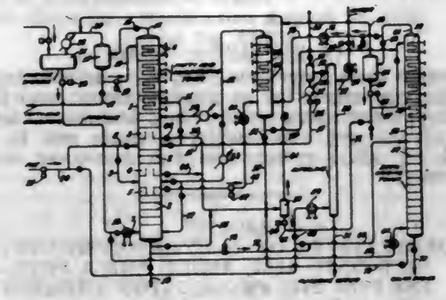
2,654,766
PROCESSES OF REFINING AND PURIFYING FATS AND HIGHER FATTY ACIDS
Ilona Taussky, New York, N. Y.
No Drawing. Application October 2, 1951, Serial No. 249,395
21 Claims. (Cl. 260—409)

19. In a process of purifying and refining fats, and higher fatty acids, the steps of hydrogenation comprising mixing a substance selected from the group consisting of fats, and higher fatty acids with a nickel catalyst and lignin; treating said mixture with hydrogen so as to hydrogenate the substance being treated; and filtering said mixture so as to separate the hydrogenated substance from nickel and lignin thereby obtaining a clear highly hydrogenated product.

2,654,767
PROCESS OF ALCOHOLYSIS
James V. Hunn, Avon Lake, Ohio, assignor to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application March 18, 1950, Serial No. 150,555
21 Claims. (Cl. 260—410.9)

1. A process for producing low molecular weight monohydric alcohol esters of high molecular weight fatty acids from glyceride oils, which comprises the step of reacting said glyceride oil with a molar excess of a monohydric alcohol of from 1 to 3 carbon atoms in the presence of from about 0.2% to about 1% (based on the weight of the alkaline earth base) by weight of the oil of the glycerine addition product of an alkaline earth base selected from the group consisting of calcium oxide, calcium hydroxide and strontium oxide for a period of time of from about 10 minutes to about 8 hours at a temperature less than 300° F.

2,654,768
PRODUCTION OF FATTY ACID CONCENTRATES
George H. Palmer, Fanwood, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Continuation of application Serial No. 640,095, January 9, 1946. This application March 12, 1952, Serial No. 276,159
19 Claims. (Cl. 260—415)



1. A method for producing a fatty acid concentrate which comprises subjecting a fatty oil containing glycerides to hydrolysis treatment, regulating the conditions of hydrolysis to restrict conversion of glycerides to fatty acids to retain in the fatty oil hydrolysis product not substantially less than 25 per cent of glycerides, subjecting the fatty oil hydrolysis product to countercurrent solvent fractionation with a solvent having a critical temperature not substantially greater than 450° F. under paracritical conditions, regulating the temperature, pressure and reflux conditions of said fractionation to fractionate said fatty oil hydrolysis product into an extract containing fatty acids and substantially free from glycerides and a raffinate phase containing a minor proportion of said fatty oil hydrolysis product including the least soluble components thereof, separately withdrawing the extract and raffinate phases and withdrawing an intermediate fraction more concentrated in glycerides than said fatty oil hydrolysis product.

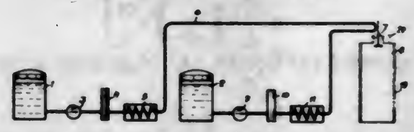
2,654,769
PREPARATION OF INDIUM ACETYLACETONATE
Alfred P. Kozacik and Edwin M. Nygaard, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application May 7, 1951, Serial No. 225,963
15 Claims. (Cl. 260—429)

1. A method for preparing indium acetylacetonate which comprises (1) forming an aqueous solution of indium trichloride and an aliphatic hydroxypolycarboxylic acid, said solution containing approximately 1 equivalent weight of trivalent indium ion per equivalent weight of acid, (2) adding to the solution provided in step 1 an aqueous solution containing a basic compound selected from the alkali metal hydroxides, the alkali metal carbonates and ammonium hydroxide in sufficient amount to provide a pH therein in the alkaline range, (3) adding acetylacetone to the solution provided in step 2 to form a precipitate of indium acetylacetonate in said solution and (4) recovering the indium acetylacetonate thus formed.

2,654,770
PROCESS FOR PREPARATION OF ALKYL TITANATES
Daniel F. Herman, Queens, N. Y., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application June 22, 1951, Serial No. 233,111
9 Claims. (Cl. 260—429)

1. Process for the preparation of alkyl titanate which comprises admixing alcohol, titanium tetrachloride, and ammonia thereby to form liquid alkyl titanate and ammonium chloride, and containing said ammonium chloride in a nitrogenous liquid selected from the group consisting of aliphatic amides and aliphatic nitriles, said amide or nitrile containing no more than 3 carbon atoms for each nitrogen atom present in the molecule, and separating from each other the liquid alkyl titanate and the nitrogenous liquid containing the ammonium chloride.

2,654,771
METHOD FOR CONDUCTING THE GRIGNARD REACTION TO PRODUCE ORGANOSILICON COMPOUNDS
Per Otto Stelling and Gösta Leonart Flemmert, Stockholm, Sweden, assignors to Me Och Domsjo Aktiebolag, Ornskoldsvik, Sweden, a corporation of Sweden
Application February 27, 1948, Serial No. 11,656
In Sweden March 8, 1947
10 Claims. (Cl. 260—448.2)



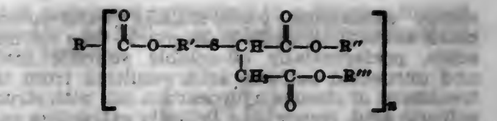
1. In a process for producing organosilicon compounds, the steps of reacting, in the form of a finely dispersed liquid mix, a silicon compound selected from the group consisting of halides, esters and halide-esters, with a Grignard reagent, and of removing volatile components including formed organosilicon reaction products from said mix by vaporization while the mix is finely dispersed.

2,654,772
2-(1,3,3-TRIMETHYLBUTYL)-5,7,7-TRIMETHYL OCTANOL-1-SULFATE
Albert A. Pavlic, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 6, 1950, Serial No. 160,587
2 Claims. (Cl. 260—459)

1. A 2-(1,3,3-trimethylbutyl) - 5,7,7-trimethyloctanol-1 sulfate.

2,654,773
TRI-ESTERS OF HYDROXY ALKYL THIO SUCCINIC ACIDS
Richard O. Zerbe, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application July 22, 1949, Serial No. 106,319
14 Claims. (Cl. 260—470)

1. As a new composition of matter a compound of the structure



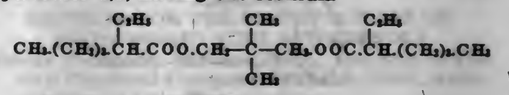
where R is hydrocarbon radical containing at least 2 but not more than 12 carbon atoms having a valence less than three, R' is an alkylene group of less than five carbon atoms, R'' and R''' are hydrocarbon groups containing less than 13 carbon atoms and n is an integer at least one but less than three.

2,654,774
METHOD OF MAKING 4-TERTIARY-BUTYLPHENYL SALICYLATE
Wesley C. Stoesser, Midland, and Edmund H. Sommerfield, Bay City, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
No Drawing. Application May 15, 1950, Serial No. 162,137
4 Claims. (Cl. 260—474)

1. A method of making 4-tertiary-butylphenyl salicylate by reaction of 4-tertiary-butylphenol and salicylic acid which comprises, mixing the salicylic acid and the 4-tertiary-butylphenol reactants with the residue from a previous reaction, heating the resulting mixture to a reaction temperature between 200° and 280° C. at substantially atmospheric pressure while distilling water from the reaction zone as it is formed and thereafter separating 4-tertiary-butylphenyl salicylate from the reaction mixture.

2,654,775
2,2-DIMETHYLPROPANEDIOL-1,3 DI-(2-ETHYLHEXANOATE)
Alan Bell and Benjamin Thompson, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application September 17, 1949, Serial No. 116,412
1 Claim. (Cl. 260—488)

Di-(2-ethyl-hexanoate) of 2,2-dimethyl propanediol-1,3, having the formula



2,654,776
NEW AZAPENTYLENE DIAMMONIUM SALT
Karl Miescher, Riehen, and Adrian Marxer, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.
No Drawing. Application November 25, 1952, Serial No. 322,546. In Switzerland December 12, 1951
1 Claim. (Cl. 260—501)

N,N,N',N',3 - pentamethyl - N,N' - diethyl - 3-aza-pentylene-(1,5)-diammonium di-d-tartrate.

2,654,777
EXTRACTION OF SULFURIC ACID SLUDGE
Norman E. Lemmon, Hammond, and Frederick W. Schuessler, Valparaiso, Ind., and David W. Bransky, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application December 28, 1949, Serial No. 135,546
11 Claims. (Cl. 260—504)

1. The method of recovering intermediate detergent-type sulfonic acids and preferentially oil-soluble sulfonic acids from unhydrolyzed acid

sludge containing preferentially water-soluble black acids, intermediate detergent-type sulfonic acids, preferentially oil-soluble sulfonic acids, and unreacted sulfuric acid, resulting from the treatment of viscous hydrocarbon oils with strong sulfuric acid, comprising initially extracting said unhydrolyzed acid sludge with a solvent mixture consisting essentially of from about 1% to about 20%, by volume, of an aliphatic alcohol containing not more than about 5 carbon atoms and from about 80% to about 99%, by volume, of an aromatic hydrocarbon solvent, separating the mixed solvent, containing dissolved therein the intermediate detergent-type sulfonic acid and preferentially oil-soluble sulfonic acids, from the acid sludge.

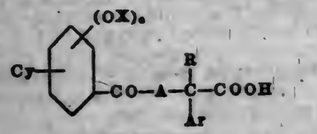
2,654,778

DERIVATIVES OF CYCLOALKYLBENZOYL-ARALKANOIC ACIDS

Robert R. Burtner, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

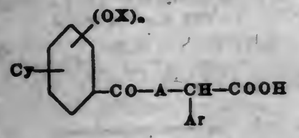
No Drawing. Application May 26, 1950, Serial No. 164,626
18 Claims. (Cl. 260—520)

1. A compound of the structural formula

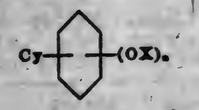


wherein Cy is a cycloalkyl radical containing five to six cyclic carbon atoms, Ar is a lower aryl radical of the class consisting of phenyl, tolyl, anisyl and naphthyl, X and R are members of the class consisting of hydrogen and lower alkyl radicals, A is a lower alkylene radical, and n is an integer smaller than 3.

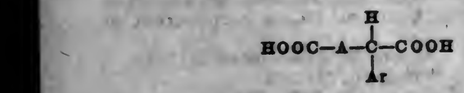
18. The process of producing a compound of the structural formula



wherein Cy is a cycloalkyl radical containing five to six cyclic carbon atoms, X is a lower alkyl radical, Ar is a lower aryl radical of the class consisting of phenyl, tolyl, anisyl and naphthyl, A is a lower alkylene radical, and n is an integer smaller than 3, which comprises heating a cycloalkylphenyl alkyl ether of the structural formula



with a member of the class consisting of acid anhydrides and acid halides derived from a dibasic acid of the formula



in the presence of a Friedel-Crafts catalyst in an inert organic solvent and separating the acid therefrom.

2,654,779

METHOD OF PREPARATION OF GUANIDINO FATTY ACIDS

Bruno Vassel and Roger Garst, Toledo, Ohio, assignors to International Minerals & Chemical Corporation, a corporation of New York

No Drawing. Application December 23, 1950, Serial No. 202,574
16 Claims. (Cl. 260—534)

1. A process for the preparation of guanidino-type compounds which comprises dissolving an alpha amino fatty acid into a solution of a cyanamide, adjusting the pH of the solution with hydroxyl ions before heating to exceed 9.0, heating the mixture, and crystallizing the reaction product from the solution mixture.

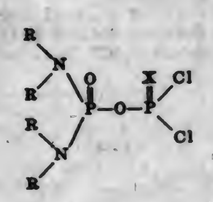
2,654,780

TETRAALKYLDIAMIDOPHOSPHORYL PHOSPHORIC DICHLORIDES

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application August 17, 1951, Serial No. 242,405
5 Claims. (Cl. 260—543)

1. A diamidophosphoryl phosphoric dichloride of the formula



wherein each R represents an alkyl radical containing from 1 to 4 carbon atoms, inclusive, and X represents a member of the group consisting of oxygen and sulfur.

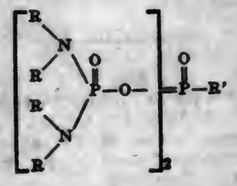
2,654,781

BIS(TETRAALKYLDIAMIDOPHOSPHORYL) ALKANEPHOSPHONATES

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application August 17, 1951, Serial No. 242,402
5 Claims. (Cl. 260—545)

1. A bis(tetraalkyldiamidophosphoryl) alkanephosphonate of the formula



wherein each R represents an alkyl radical containing from 1 to 4 carbon atoms, inclusive, and R′ represents a member of the group consisting of methyl and ethyl.

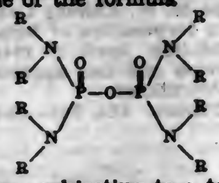
2,654,782

PROCESS FOR THE MANUFACTURE OF OCTAALKYLPYROPHOSPHORAMIDES

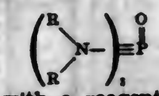
Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application August 17, 1951, Serial No. 242,403
9 Claims. (Cl. 260—545)

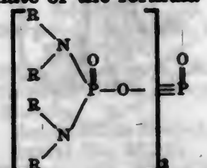
9. A process for the manufacture of a pyrophosphoramide of the formula



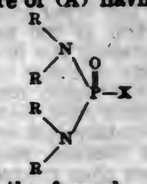
which comprises subjecting to a temperature of from 135° to 190° C. a hexaalkylphosphoramide of the formula



while admixed with a reagent from the group consisting of (1) a tris(tetraalkyldiamidophosphoryl) phosphate of the formula



and (2) a mixture of (A) having the formula



and (B) having the formula



in the molecular proportion of at least 3 moles of (A) to 1 mole of (B), X being a member of the group consisting of chlorine and R′—O—, Y being the other member of the latter group, and R and R′ each representing an alkyl radical containing from 1 to 4 carbon atoms, inclusive.

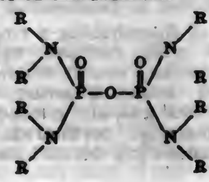
2,654,783

PROCESS FOR THE MANUFACTURE OF OCTAALKYLPYROPHOSPHORAMIDES

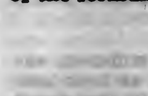
Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application August 17, 1951, Serial No. 242,404
9 Claims. (Cl. 260—545)

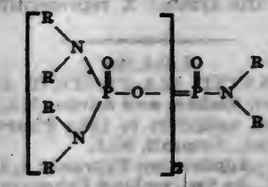
9. A process for the manufacture of a pyrophosphoramide of the formula



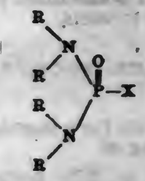
which comprises subjecting to a temperature of from 135° to 190° C. a hexaalkylphosphoramide of the formula



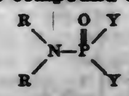
while admixed with a reagent from the group consisting of (1) a bis(tetraalkyldiamidophosphoric) dialkylamidophosphoric dianhydride of the formula



and (2) a mixture of a diamido compound of the formula



and a monoamido compound of the formula



in the molecular proportion of at least 2 moles of the diamido compound to 1 mole of the monoamido compound, X being a member of the group consisting of chlorine and R′—O—, Y being the other member of the latter group and R and R′ each representing an alkyl radical containing from 1 to 4 carbon atoms, inclusive.

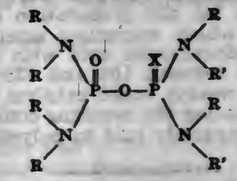
2,654,784

METHOD FOR THE MANUFACTURE OF PHOSPHORIC ACID ANHYDRIDES

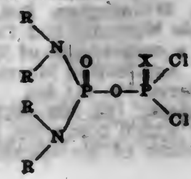
Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application August 17, 1951, Serial No. 242,410
6 Claims. (Cl. 260—545)

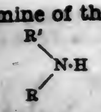
1. A process for the manufacture of pyrophosphoramides of the formula



which comprises reacting in an inert nonpolar organic solvent a diamidophosphoryl phosphoric dichloride of the formula



with at least one amine of the formula



the reaction being carried out in a sufficient excess of the amine reactant to act as hydrogen chloride acceptor, each symbol R in the above formulae representing a lower alkyl radical, each symbol R' representing a member of the group consisting of the lower alkyl radicals and hydrogen, and the symbol X representing a chalcogen.

2,654,785

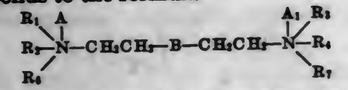
QUATERNATED AZA-PENTANE AMINES

Karl Miescher, Riehen, and Adrian Marxer, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.

No Drawing. Application February 6, 1950, Serial No. 142,712. In Switzerland February 15, 1949

7 Claims. (Cl. 260—567.6)

1. A quaternated ammonium compound which corresponds to the formula



wherein —B— stands for a member selected from the group consisting of



and



each of R_1, R_2, R_3 and R_4 stands for alkyl, and each of R_6 and R_7 stands for a member of the group consisting of alkyl and alkenyl, each alkyl and each alkenyl group containing 1 to 3 carbon atoms, and each of A, A_1 and A_2 representing a member selected from the group consisting of halogen, lower alkyl sulfuric and sulfonic and monocyclic aryl sulfonic anions, and hydroxyl.

2,654,786

POLYETHYLENE GLYCOLS FROM ETHER-ESTERS OF GLYCOLIC ACID

William F. Gresham, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 8, 1949, Serial No. 131,939

5 Claims. (Cl. 260—615)

1. A process for the preparation of polyethylene glycols which comprises esterifying and etherifying hydroxyacetic acid with a glycol at a temperature between 100 and 225° C. in the presence of a weakly acidic catalyst and thereafter hydrogenating the resulting complex ether-ester of hydroxyacetic acid to polyethylene glycols.

2,654,787

COUPLING NONTERMINAL ALLYLIC HALIDES

Irving D. Webb, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 25, 1950, Serial No. 151,985

12 Claims. (Cl. 260—615)

1. The process which comprises coupling terminal carbon atoms of an organic compound containing non-terminal allylic halogen by reaction with nickel carbonyl, and separating from the resulting mixture the compound formed by the coupling of the said terminal carbon atoms.

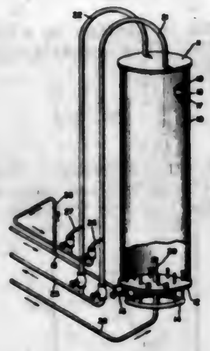
2,654,788

NITRATION OF ORGANIC COMPOUNDS

Walton H. Marshall, Jr., Bronxville, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Original application April 2, 1948, Serial No. 18,607. Divided and this application July 25, 1951, Serial No. 238,559

9 Claims. (Cl. 260—644)



1. In the process for reacting nitric acid with a hydrocarbon in the vapor phase to produce a nitrated hydrocarbon as the principal product, the method of operating the process to decrease the corrosive effects of liquid nitric acid which comprises contacting liquid nitric acid with a mass of finely divided solid material in a quantity and at a temperature sufficient to effect complete vaporization thereof, and then reacting the nitric acid vapor thus produced with the hydrocarbon reactant.

2,654,789

NEW CHLOROFLUORO DERIVATIVES OF CYCLOHEXANE AND METHOD OF MAKING SAME

Waldo B. Ligett, Berkley, Mich., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application March 12, 1948, Serial No. 14,646

3 Claims. (Cl. 260—648)

1. A new composition of matter comprising a dichlorododecafluoromethylcyclohexane having the formula $CF_3C_6Cl_2F_9$, and separated from the product obtained by reacting a ring-chlorinated benzotrifluoride with a metallic perfluoride until all the hydrogens of the chlorinated benzotrifluorides are replaced by fluorines and the benzene ring is converted to a saturated cyclohexane ring.

3. A method of fluorinating a ring chlorinated benzotrifluoride with reduced substitution of fluorine for chlorine, which method comprises vaporizing said benzotrifluoride, mixing the vapors with chlorine gas, and contacting the mixture with a metallic perfluoride fluorinating agent under fluorinating conditions.

2,654,790

MANUFACTURE OF DDT

Leo P. Curtin, Cranbury, N. J.

No Drawing. Application July 3, 1951, Serial No. 235,091

4 Claims. (Cl. 260—649)

1. In the manufacture of DDT the process which comprises condensing chloral and chlorobenzene in the presence of fuming sulfuric acid and from about 5 to 60 percent by weight based on the chloral employed of a catalytic agent selected from a class consisting of aromatic polysulfonic acids, containing from 2 to 4 sulfonic acid groups, which are soluble in but substantially non-reactive with the components of the reaction mixtures, cooling and agitating the resulting mixture within the range of from about −10° to +25° C. while slowly adding oleum and separating the resulting DDT from the reaction mixture; said oleum containing sufficient free SO_3 to supply from about 0.5 to 1.3 moles of free SO_3 per mole of chloral to the reaction mixture in addition to any required to raise the sulfuric acid concentration to 100 percent; sufficient chlorobenzene being used to supply a total of from about 2.2 to 4 moles chlorobenzene per mole of chloral.

2,654,791

PRODUCTION OF 2-CHLORO-1-PHENYLPROPANE

Arthur W. Weston, Waukegan, Ill., assignor to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois

No Drawing. Application November 20, 1948, Serial No. 61,201

5 Claims. (Cl. 260—651)

1. The process of producing 2-chloro-1-phenylpropane which comprises reacting benzene and allyl chloride in the presence of anhydrous aluminum chloride and a nitro hydrocarbon selected from the group consisting of nitromethane, nitroethane, nitropropane and nitrobenzene, at a temperature of about 0° C. to about +20° C., and recovering 2-chloro-1-phenylpropane from the reaction mixture.

2,654,792

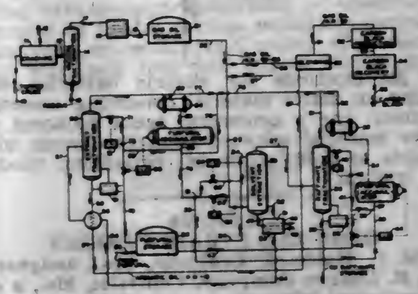
FURFURAL EXTRACTION PROCESS

Forrest E. Gilmore, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application December 19, 1949, Serial No. 133,902

7 Claims. (Cl. 260—674)

4. In a process for the furfural extraction of aromatic hydrocarbons from a gas oil by countercurrently contacting a feed stream of liquid furfural and a liquid feed stream of such a gas oil at a temperature within the range of 100–180° F., the improvement comprising recovering a furfural-containing phase from said furfural extraction and distilling said phase to produce furfural as vaporous overhead distillation product at a temperature within the range of 325–430° F., cooling said overhead distillation product to form a condensate at a temperature within the range of 200–320° F., returning condensate



formed as described with at least one of said liquid feed streams initially at a temperature within the range of 50–120° F. in a requisite amount for transfer of heat from said condensate to said feed stream to heat same to a temperature within the range of 100–180° F., and introducing the resulting feed stream furfural admixture into the zone of said extraction.

2,654,793

PROCESS OF PREPARING LIGHT-COLORED RUBBER HYDROCHLORIDES

Ludwig Orthner, Frankfurt am Main, and Martin Rieber, Frankfurt am Main Hoechst, Germany, assignors to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius und Brüning, Frankfurt am Main Hoechst, Germany, a company of Germany

No Drawing. Application February 6, 1951, Serial No. 209,708. In Germany February 9, 1950

4 Claims. (Cl. 260—771)

1. In the process of preparing light-colored rubber hydrochlorides the step which comprises dissolving chlorine dioxide at room temperature in a solution of a rubber hydrochloride.

ELECTRICAL

2,654,794

SEALED STORAGE CELL AND BATTERY AND METHOD OF MANUFACTURING THE SAME

Samuel Zaugg, Solothurn, Switzerland, assignor to La Societe des Accumulateurs Elbric, S. A., Lausanne, Switzerland, a corporation of Switzerland

Application December 15, 1949, Serial No. 133,129

17 Claims. (Cl. 136—7)

6. In the method of manufacturing wet storage cells the steps which comprise supplying a flat strip of foraminous sheet metal and forming thereon spaced receptacle-like sections of plastic material each consisting of bottom and side walls with the inner wall of the bottom in contact with said strip and with the adjacent portions of said strip molded and sealed between said bottom and side walls to form a liquid-tight seal between said



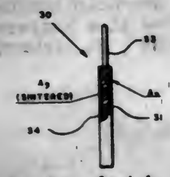
strip and said bottom and side walls with the portions of said strip between said receptacle-like sections protruding therefrom to form battery terminals.

2,654,795

ELECTRODE FOR ELECTRIC BATTERIES AND METHOD OF MAKING SAME

Otto H. Brill and Frank Solomon, New York, N. Y., assignors to Yardney International Corp., New York, N. Y., a corporation of New York

Application November 14, 1951, Serial No. 256,199
7 Claims. (Cl. 136—120)



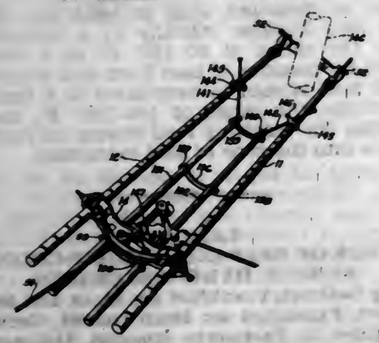
1. An electrode for electric batteries, comprising an active material consisting essentially of silver, and a protective agent adjacent said active material selected from the group which consists of gold, platinum, palladium, rhodium and iridium.

2,654,796

DEAD-END STRAIN CARRIER

David C. Hubbard, Centralia, Mo., assignor to A. B. Chance Company, Centralia, Mo., a corporation of Missouri

Application January 23, 1950, Serial No. 140,121
10 Claims. (Cl. 174—44)



1. In a dead end strain carrier, the combination of a pair of elongated cylindrical wooden insulating poles, said poles each having a tubular fixture carried by one end, and provided with an axial threaded bolt, a metal yoke provided at each of its ends with an upwardly open slot for receiving said bolts between a pair of legs, a threaded pin located in aligned apertures in said legs to hold the bolts in said slots, a trunnion member reacting against a nut on each bolt and having a bore surrounding each bolt, and having a pair of trunnions receivable in a pair of half bearings formed in said yoke adjacent each of said slots, said trunnions and half bearings having their axes at substantially right angles to the plane of said poles, means for pivotally securing said yoke to a line pole midway between the ends of the yoke, and means carried by said insulating poles for securement to a line conductor.

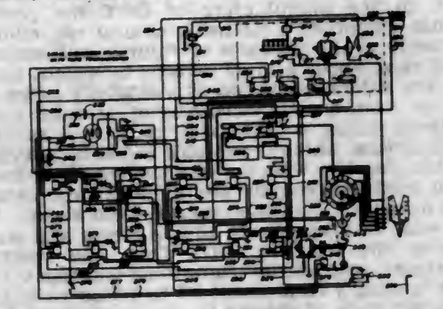
2,654,797

TELETYPEWRITER SWITCHING SYSTEM

George J. Knandel, Glen Rock, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application September 1, 1949, Serial No. 113,631
19 Claims. (Cl. 178—2)

2. In a telegraph switching system, a switching center, a plurality of remote telegraph stations, a line connecting each of said remote stations to said switching center, switching means at said switching center responsive to message-directing signals for selectively interconnecting any two of said lines, a signal recorder in said switching center, and means effective when a line represented by received message-directing signals is busy for connecting said recorder independently of the selecting attributes of said message directing signals to the line over which said message directing signals were received whereby to record the message signals for retransmission when said busy line becomes idle.

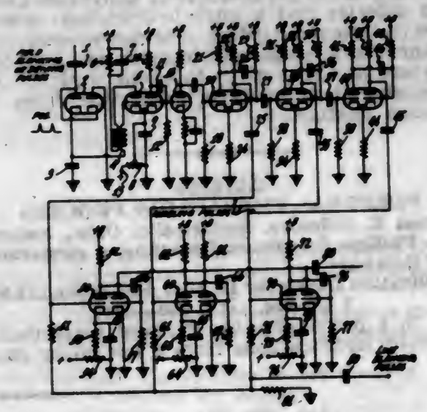


2,654,798

MEANS AND METHOD FOR OBTAINING IMPROVED COLOR FIDELITY IN COLOR TELEVISION SYSTEMS

Philip J. Herbst, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application January 2, 1951, Serial No. 203,938
10 Claims. (Cl. 178—5.4)



1. Apparatus for providing color balancing and improved color fidelity in a sequential color television system, comprising in combination, means providing a blanking pulse train, a countercircuit for dividing the blanking pulses in a ratio of 3 to 1, a series of three cascade coupled enabling pulse generating circuits, means coupling the divided blanking pulses for actuating the first pulse generating circuit to an unstable stage of operation, means causing each pulse generating circuit to actuate the succeeding pulse generating circuit into a like unstable stage of operation upon a return to a stable state of operation of the preceding pulse generating circuit, the generated enabling pulses lasting for an unstable operation period of fixed predetermined duration thus determining the image portion sequence period, and

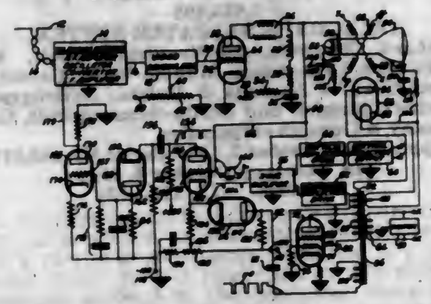
means for combining the generated pulses with an output amplitude individually determined for each pulse.

2,654,799

KEYED AUTOMATIC GAIN CONTROL WITH KEYING PULSE LIMITER

Karl Rinner Wendt, Hightstown, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application August 26, 1948, Serial No. 46,254
1 Claim. (Cl. 178—7.5)



In a television receiver adapted to receive a series of image signals interspersed with regularly recurrent black level signals, said receiver incorporating a combination kinescope power supply circuit for simultaneously supplying kinescope beam deflection signal energy as well as kinescope beam deflection accelerating potential, an automatic gain control circuit comprising in combination a variable conductance device, means maintaining said variable conductance device in a state of minimum conduction, circuit connections to the combination kinescope power supply for deriving therefrom a series of keying pulses recurring in synchronism with the received black level signals, said pulses having amplitude characteristics which are a function of the loading imposed upon the combination power supply, a first and second pulse amplitude responsive means for controlling the conductance of the variable conductance device, connections applying the received black level signals to said first pulse amplitude responsive means, a pulse amplitude limiting circuit to the input of which are applied said keying pulses, circuit connections applying the output of said amplitude limiting circuit to said second pulse amplitude responsive means for keying said variable conductance device into exhibiting a greater degree of conductance during the active periods of said pulses, and means for developing an automatic gain control potential in accordance with the conductance displayed by the variable conductance device during the intervals in which said keying impulses are active to increase the conductance of said conductance device.

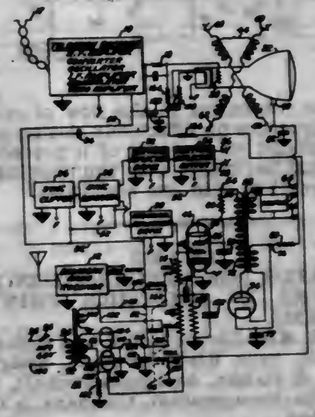
2,654,800

TELEVISION-TO-RADIO VOLTAGE CHANGING SYSTEM

Simeon I. Tourshou, Philadelphia, Pa., and Gerden E. Skerup, Oaklyn, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application October 26, 1948, Serial No. 56,563
10 Claims. (Cl. 178—7.5)

3. A disabling arrangement for a combination radio receiving system of type including a first electronic circuit for receiving and reproducing television image signal information and at least a second electronic circuit for communicating another form of signal information, said first circuit incorporating a cathode ray type image reproducing device having a cathode, a control grid and beam accelerating electrode with a first series of related thermoemissive electron tubes for operation thereof and said second circuit incorporating a second series of thermoemissive electron tubes, said first circuit having a disabling terminal to which control voltage may be applied for disabling said reproducing device electron beam, each of said circuits having respective terminals for application of heater energy and anode supply potential to the respective thermoemissive electron tube series, said disabling arrangement comprising in combination, a source of heater energy, switching means for selectively connecting said source of heater energy with said first and second circuit heater



energy supply terminals, a power supply developing an output terminal potential of substantially proper magnitude for anode supply of said first circuit but of excessive magnitude for proper anode supply of said second circuit, an anode supply circuit connected from said power supply output terminals to said second circuit anode supply terminals, a resistance connected in series with said second circuit anode supply terminals and said anode supply to effect a voltage drop of sufficient magnitude to permit application of a proper anode supply voltage to said second circuit anode supply terminals and electrical coupling between said resistance and said first circuit disabling terminal to apply thereto a voltage representative of the voltage drop across said resistance to effect discontinuance of the cathode ray image reproducing device electron beam upon the simultaneous supply of heater energy and anode potential to said second circuit.

2,654,801

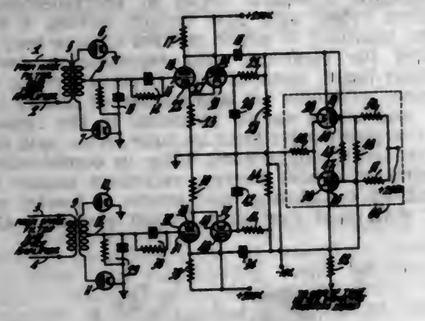
FREQUENCY SHIFT RECEIVER

John E. Atwood, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application October 20, 1951, Serial No. 252,284
14 Claims. (Cl. 178—66)

1. In a receiver for frequency shift telegraph signals with means for separately detecting the mark and space signals, a locking circuit having two conditions of electrical stability and comprising a pair of intercoupled electrode structures, so arranged that the flow of current in one structure causes a cessation of current in the other structure, and vice versa, means for applying one detected signal to said locking circuit

to cause current flow in one structure, thereby tripping said locking circuit to one condition, a controllable circuit for applying the other detected signal to said locking circuit to trip the same to its other condition, and circuit control-



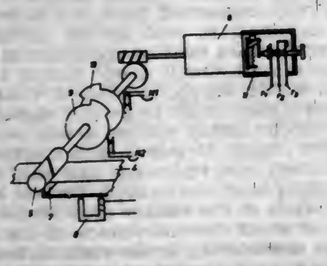
ling means responsive to the flow of current in said one structure for effectively closing said controllable circuit at the end of a predetermined time interval beginning with the tripping of said locking circuit to said one condition.

2,654,802

APPARATUS FOR SYNCHRONIZING RECEIVERS IN FACSIMILE PRINTING SYSTEMS

Rudolf Hell, Kiel-Dietrichsdorf, and Heinz Taudt, Blickstedt, near Kiel, Germany, assignors to Siemens & Halske, Aktiengesellschaft, Munich and Berlin-Siemensstadt, Germany, a German corporation

Application October 7, 1950, Serial No. 188,928
In Germany March 14, 1949
36 Claims. (Cl. 178—69.5)



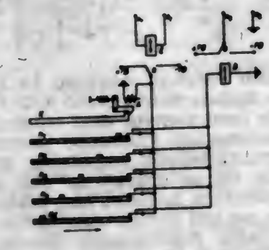
1. Apparatus for synchronizing receivers in the recording of transmitted symbols in a facsimile printer system of the type in which the symbols are within a symbol field individually subdivided in the form of fixed impulse series for the continuous scanning and printing thereof to form the corresponding symbols on a suitable record in the receiver having driving means including a motor, comprising a plurality of margin scanning means in the receiver, said margin scanning means being independent of the field scanning means for the reproduction of the image dots to form the symbols and being effective to scan the marginal zones to detect image dots appearing therein as a result of displacement of symbols from the predetermined symbol field due to non-synchronous operation of the receiver, a correction device, said correction device comprising contacts respectively associated with said margin scanning means, relay means controlled by said contacts, correction means controlled by said relay means, for respectively retarding or accelerating the speed of said driving means of the receiver depending on the detection of image dots in said marginal zones by said margin scanning means, and circuit control means for maintaining the operation of said correction means until such a time when no image dots are detected by said margin scanning means in said marginal zones when synchronous operation is restored.

2,654,803

TELEGRAPH REPEATER SYSTEM

Ehrhard Rossberg, Berlin-Siemensstadt, and Wilhelm Lockemann, Munich-Haar, Germany, assignors to Siemens & Halske, Aktiengesellschaft, Munich and Berlin-Siemensstadt, Germany, a German corporation

Application October 7, 1950, Serial No. 188,917
In Germany October 8, 1949
5 Claims. (Cl. 178—70)



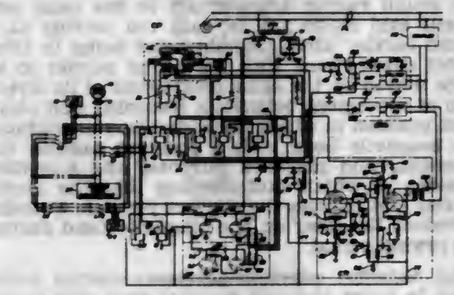
1. In a telegraph system having start-stop printer means and repeater apparatus in which a transmitter line terminates over which signals are received which include cyclically transmitted sets of code impulses comprising marker and spacing impulses and over which may be in addition transmitted prolonged current impulses signifying control signals, and having a line relay which is responsive to all said impulses, and having a code signal-receiving distributor for receiving said sets of marker and spacing impulses and transmitter means including a transmitter relay to which said received impulses are transmitted, a start-stop mechanism individual to said signal-receiving distributor, a release control magnet which forms part of said mechanism for releasing said receiving distributor for operation for predetermined periods coinciding with the periods of cyclic transmission of said marker and spacing impulses, circuit control means for causing the release operation of said release control magnet only at the instant coinciding with the change-over from a normal current condition on said line to a current condition signifying a start signal and for causing said release magnet to stop the operation of said distributor upon termination of each predetermined operating period irrespective of the presence of a prolonged current condition on said line which signifies a control signal, said circuit control means comprising a contact spring controlled by said line relay and connected with said release control magnet, a by-pass relay connected with said contact spring, contact means carrying predetermined potentials for connection with said contact spring in alternate positions thereof, and means governed by said by-pass relay for controlling said transmitter relay independent of the release of said signal-receiving distributor.

2,654,804

POWER LINE CARRIER TELEPHONE SYSTEM

Robert C. Edson, Livingston, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 27, 1949, Serial No. 95,683
4 Claims. (Cl. 179—2.5)



1. In combination in a power line carrier communication system, an alternating-current power line, a carrier terminal unit connected to a particular phase of said power line, a plurality of telephone stations, a two-conductor voice frequency line connecting said stations to said carrier terminal unit, said carrier terminal unit comprising means for demodulating carrier current incoming over said power line, first control means connected to said demodulating means for operation when carrier current is being received over said power line during half cycles of one polarity of said phase of the power line voltage, second control means connected to said demodulating means for operation when carrier current is being received over said power line during half cycles of the opposite polarity of said phase of the power line voltage, means including transformer means connected to said particular phase of said power line supplying operating potential to said first control means during half cycles of one polarity of said phase of the power line voltage and supplying operating potential to said second control means during half cycles of the opposite polarity of said phase of the power line voltage, a ringing current source, relay means connected to and operated by said first control means for connecting said source to one of the conductors of said voice frequency line to signal some of said stations, and relay means connected to and operated by said second control means for connecting said source to the other of the conductors of said voice frequency line to signal the remainder of said stations.

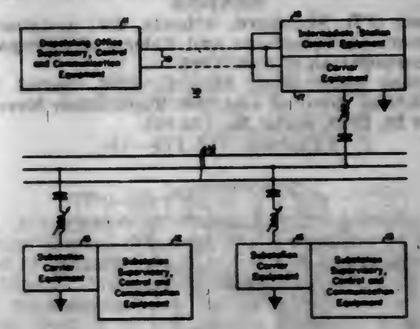
2,654,805

REMOTE-CONTROL SYSTEM

Willard A. Derr, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 28, 1949, Serial No. 124,217
11 Claims. (Cl. 179—2.5)

1. In a supervisory control system, a telephone line, dispatching office impulse signal sending and receiving equipment said equipment including a line relay, circuit means connecting the line relay to the telephone line, impulse means having contact means connected in circuit with the line and the line relay to apply impulse signals to the line in response to operation of the supervisory equipment, remote substation supervisory control impulse signal sending and receiving equipment including carrier frequency receiving and transmitting means, a carrier frequency signal channel, circuit means connecting the carrier receiving and transmitting means respectively to the signal channel to operate in response to carrier impulses of one frequency and to produce carrier frequency impulses in response to operation of said additional supervisory equipment, additional carrier frequency receiving and transmitting means operating on the same frequency, circuit means connecting said additional carrier frequency means to the signal channel at an intermediate station, said additional carrier receiving means including a receiving relay and a keying circuit for the additional transmitting means



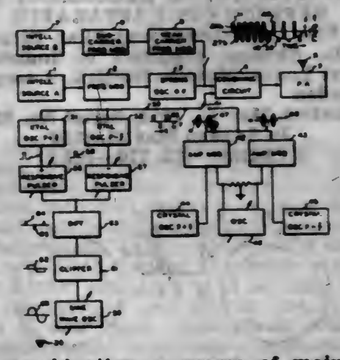
respectively, a line relay at the intermediate station, circuit means connecting the line relay in circuit relation with the telephone line and the line relay at the dispatching office to effect completion of the keying circuit, control means at the intermediate station including an impulse relay having contact means operable in response to operation of the receiving relay at the intermediate station, and circuit means connecting the contact means of said impulse relay to the telephone line to produce impulse signals to provide for energization of the telephone line and effect operation of the line relay at the dispatching office.

2,654,806

FM SYSTEM

Raymond M. Wilmotte, Washington, D. C., assignor to Padevco, Inc., Washington, D. C., a corporation of Delaware

Application July 12, 1950, Serial No. 173,345
12 Claims. (Cl. 179—15)



1. In combination, a source of main carrier having predetermined mean frequency, means for modulating said main carrier at a predetermined amplitude and with predetermined maximum frequency deviations, a source of auxiliary carrier having less than said predetermined amplitude, means for modulating said auxiliary car-

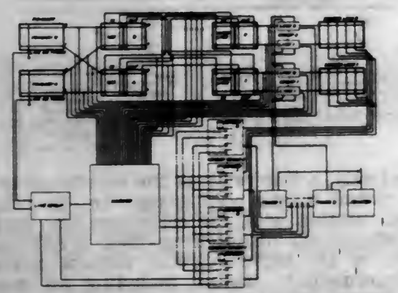
rier in frequency alternately in deviations of opposite sense and constant value, said main and auxiliary carriers being in the same frequency channel and overlapping in frequency, means for controlling the rate of occurrence of said last named deviations, and means for deriving the modulations of said auxiliary carrier in response to both transmitted modulated carriers.

2,654,807

MARKER FOR ALLOTTING A LINK AND A SENDER

Judson O'D. Shepherd, Atlanta, Ga., assignor to American Telephone and Telegraph Company, a corporation of New York

Original application May 5, 1943, Serial No. 485,690. Divided and this application November 30, 1949, Serial No. 130,105
8 Claims. (Cl. 179—18)



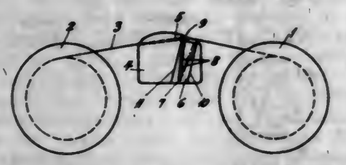
1. In a telephone system, the combination of a plurality of links arranged in groups and a plurality of senders arranged in groups, of a marker comprising means for connecting with each of said link groups, means for connecting with each of said sender groups, and means responsive to each operation of said marker for operating sequentially a different one of said link connecting and sender connecting means, thereby to connect said marker on each operation thereof to a different one of said link groups and a different one of said sender groups.

2,654,808

MAGNETIC SOUND RECORDING AND REPRODUCING APPARATUS

Robert Erik Olov Olsson and Allan Birger Dahl, Motala, Sweden, assignors to Industriaktiebolaget Luxor, Motala, Sweden, a corporation of Sweden

Application May 15, 1951, Serial No. 226,386
In Sweden May 25, 1950
2 Claims. (Cl. 179—100.2)



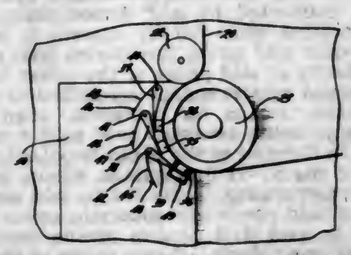
1. In a magnetic sound recording and reproducing apparatus, a supply reel and a take-up reel, a magnetic sound carrier movable between said reels, the sound carrier being wound onto the take-up reel during the recording and playback periods and onto the supply reel during the rewind periods and the rewind speed of the sound carrier being greater than the forward speed thereof, a magnetic head arranged between said two reels and provided with a guide groove through which the sound carrier is adapted to pass, an angularly bent rod carried by the magnetic head with its one leg rotatably mounted in the head and with its other leg extending under the sound carrier transversely to the same adjacent said guide groove, said rod serving as a sound carrier lifting member and being in frictional engagement with the sound carrier so as to be moved by the same on reversal of its direction of movement between a recording and playback position in which the sound carrier contacts the magnetic head with a pressure suitable for recording and playback purposes and a rewind position in which said member lifts the sound carrier and reduces the contact pressure in order to reduce the wear on the magnetic head during the rewind period.

2,654,809

MAGNETIC SOUND APPARATUS

Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill., a corporation of Illinois

Application August 30, 1947, Serial No. 771,494
6 Claims. (Cl. 179—100.2)



1. Magnetic recording and reproducing apparatus comprises a rotating film supporting constant speed rotating member arranged to carry a film having a magnetizable coating thereon, a main support member upon which said drive member is rotatably mounted, a head supporting member on said main support member, means for adjusting said head supporting member for limited movement parallel to the axis of rotation of said drive member, an erase head, a record head and a play-back head mounted on said head supporting member and disposed against said film as it passes over said drive member, said heads being respectively progressively smaller in width.

2,654,810

PHOTOELECTRIC TRANSLATING SYSTEM

Benjamin F. Miessner, Harding Township, Morris County, N. J., assignor to Miessner Inventions Inc., Harding Township, Morris County, N. J., a corporation of New Jersey

Application November 15, 1949, Serial No. 127,301
9 Claims. (Cl. 179—100.3)

1. In a photoelectric system for producing electrical variations in response to light rays reflected from a medium carrying recorded intelligence, the combination of a light source, a lens disposed between the light source and the medium and converting light rays from the source into a converging cone of light rays having an axis normal to the medium, said lens having a focal point beyond the medium whereby the cone of light rays reflected from the medium pass through a point of convergence above the medium; and a photoelectric cell disposed on the axis of the cone of light rays and having an



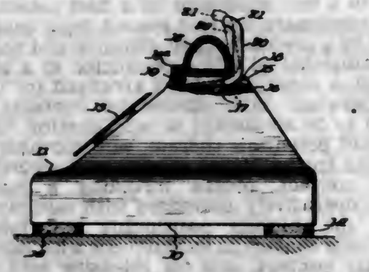
active surface receiving only the reflected light rays which pass through the said point of convergence.

2,654,811

TELEPHONE SET

Hans P. Boswau, Dundee, and Alexander C. Reid, Genoa, Ill., assignors to Leich Electric Company, Genoa, Ill., a corporation of Illinois

Original application July 20, 1944, Serial No. 545,760. Divided and this application July 27, 1949, Serial No. 107,036
8 Claims. (Cl. 179—146)



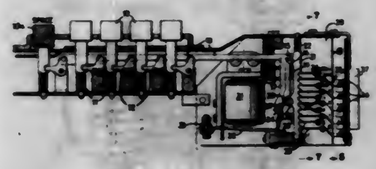
1. A telephone set for instant selective use as a set mounted on a horizontal surface such as formed by a desk or for use as a set mounted on a vertical surface such as formed by a wall, said set having a cover which comprises a cradle portion for supporting the handle element of a hand telephone and having switch plungers movably disposed in said cradle portion and tine means extending from said cradle portion at each end thereof, an adapter member disposed on said cradle portion, said adapter member comprising a platelike portion extending along the space between said tine means to form a first seat for the handle element of said hand telephone which extends underneath such handle element thereof when said set is mounted on a horizontal surface, an integral extension projecting from said plate-like portion at an angle thereto to form part of a second seat for the handle element of said hand telephone when said set is mounted on a vertical surface, and means for pivotally securing said adapter member on said cradle portion as a substantially permanent fixture thereof to make said first and said second seats effective for cooperation with said hand telephone in the two respective mounting positions of said set.

2,654,812

ALPHABETIC KEYBOARD CONTROLLER

James M. Cunningham and Arthur F. Smith, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York

Original application November 23, 1948, Serial No. 61,662, now Patent No. 2,566,931, dated September 4, 1951. Divided and this application July 2, 1951, Serial No. 234,802
8 Claims. (Cl. 200—18)



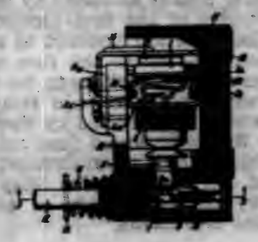
1. A keyboard for controlling the operation of a recording machine, having a plurality of keys, a set of contacts less in number than the number of keys, a plurality of actuating members for the contacts, a latch for each member to normally hold it in an inactive position, a spring biasing each member toward an active position to actuate a different combination of said set of contacts, and means controlled by each key for releasing the related latch, whereby the member will immediately under action of its spring move to its active position.

2,654,813

OVERLOAD PROTECTIVE RELAY

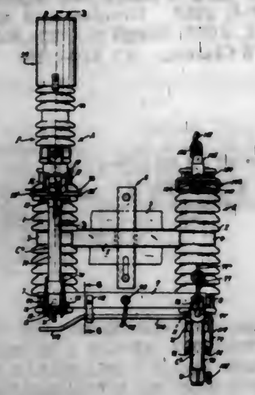
Chester I. Hall, Vischer's Ferry, N. Y., assignor to General Electric Company, a corporation of New York

Application February 8, 1952, Serial No. 270,641
7 Claims. (Cl. 200—116)



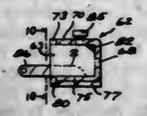
1. An electric circuit overload protective device comprising in combination, a thermally sensitive unit comprising a boiler, a bellows having communication with said boiler, a vaporizable liquid filling said unit in the fully compressed condition of said bellows and at a predetermined temperature of said liquid thereby to provide a negative pressure within said unit in a partially decompressed condition of said bellows and at a temperature of said liquid substantially lower than said predetermined temperature, contacts having open and closed operating positions and operable from one of said positions to the other in response to expansion of said bellows from said partially decompressed condition, and a heating element mounted in heat transfer relationship with said boiler and having input terminals for connection with a circuit to be protected.

2,654,814
ELECTRICAL SWITCH
Robert A. Geselschap, Kirkwood, Mo., assignor to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri
Application June 11, 1948, Serial No. 32,465
5 Claims. (Cl. 200—126)



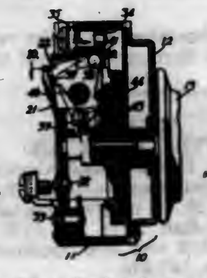
1. A switch structure comprising a switch having a fuse cartridge supported for pivotal movement into and out of the closed-switch position, spring means for urging said fuse cartridge toward the open-switch position, a latch engaging and latching said fuse cartridge in the closed-switch position and means comprising a relay for actuating said latch for releasing the fuse cartridge of the first-mentioned switch for movement out of the closed-switch position on interruption of the flow of current through said fuse cartridge of said first-mentioned switch, a second switch having a fuse cartridge supported for pivotal movement into and out of the closed-switch position and normally supported in an open-switch position when said first fuse cartridge is in the closed-switch position, normally inactive actuating means connected with said second switch, transfer means actuated by movement of the fuse cartridge of the first-mentioned switch out of the closed-switch position to actuate said actuating means to cause the fuse cartridge of the second-mentioned switch to be moved into the closed-switch position, said relay including coil means which is energized by flow of current through the first-mentioned fuse cartridge, and a member which is held in an elevated position by the energized coil means of the relay and which is released by de-energization of said coil for latch actuating movement.

2,654,815
ELECTRIC CIRCUIT INTERRUPTER
Martin Laverty, West Hempstead, N. Y., assignor to Murray Manufacturing Corporation, Brooklyn, N. Y., a corporation of New York
Application December 27, 1948, Serial No. 67,271
4 Claims. (Cl. 200—144)



1. In an electric circuit interrupter of the kind described, the combination comprising a stationary contact, a movable contact positioned to cooperate with the stationary contact, said stationary contact constituting a portion of a strap of metal that includes a portion extending at an angle to the contact portion and another portion spaced from, extending in the same direction as and substantially parallel to the contact portion, and fibre cooperating with said strap of metal to form a housing enclosing the contacts, the housing having openings therethrough for the passage of gases generated by an arc formed between the contacts.

2,654,816
ELECTRIC SWITCH
John J. Lawser, Philadelphia, Pa., assignor to Proctor Electric Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 31, 1951, Serial No. 254,037
11 Claims. (Cl. 200—144)



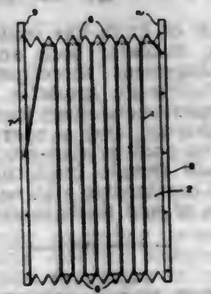
1. In a switching device for controlling an electrical heating load from an electrical supply line, a first stationary contact adapted to be connected to a line conductor at a first potential, a second stationary contact spaced from said first contact by a predetermined distance and adapted to be connected to a line conductor at a second potential, a movable contact arranged for movement between said stationary contacts and adapted to be connected to said heating load to apply said potentials thereto, said movable contact being spring-biased toward said second stationary contact, means including a movable member operatively associated with said movable contact for initially positioning and latching the movable contact in engagement with said first stationary contact, and for releasing said movable contact to permit it to move to said second stationary contact under its spring bias, and means for retarding movement of said member, to thus retard movement of said movable contact, sufficiently to permit dissipation of any arc drawn by said movable contact in moving from said first stationary contact and thereby prevent establishment of a continuous arc between said stationary contacts.

2,654,817
FUMBLELESS LAMP SWITCH
George Brenton, Corona, N. Y.
Application May 9, 1951, Serial No. 225,235
1 Claim. (Cl. 200—172)



A switch device comprising a housing, a push button switch including a push button mounted in said housing, rod members extending outwardly through the housing, said housing having vertically elongated openings for accommodating said rod members, a central structure lying over the push button switch and engageable with the push button thereof upon the rod members being depressed and means connecting each of the said rod members with the said central structure, and a closure plate conforming to the inner surface of the housing to keep the opening in the housing closed and a spring surrounding each rod and reacting between the central structure and the plate to hold the plate in friction engagement with the housing, and a ring connected to said rods and encircling said housing.

2,654,818
RESISTANCE THERMOMETER
Cyril C. Whitehead, Croydon, England, assignor to Bailey Meter Company, Cleveland, Ohio, a corporation of Delaware
Application February 15, 1952, Serial No. 271,714
In Great Britain February 20, 1951
8 Claims. (Cl. 201—63)



1. The method of forming a resistance thermometer resistance element for engagement with the inner surface of a tubular pocket which comprises, serrating opposite edges of a first sheet of insulating material, winding a wire resistance to and fro across one face of the first sheet with the return bends looped over the serrations, providing an elongated terminal member along an unserrated edge of the first sheet, adjusting the length of wire at an end thereof to give a desired resistance, connecting the end of the wire to the terminal member at an appropriate point in the length thereof, covering the face of the first sheet with a second sheet of insulating material, covering the parts of the resistance behind the serrations with insulating material, covering the sheets of insulating material with sheets of metal, bending the sheets of insulating material and the sheets of metal into arcuate form, and forming of the sheets of metal a sheath of metal in the form of a tube longitudinally split or apertured.

2,654,819
PHOTOCELL
Oran T. McIlvaine, St. Charles, Ill.
Application March 7, 1952, Serial No. 275,435
13 Claims. (Cl. 201—63)



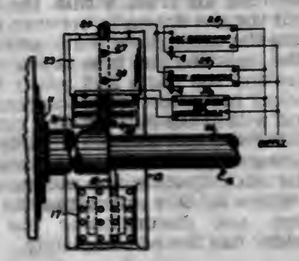
1. A method of making a photocell, comprising applying to a base a series of lines of conductive material, activating the material with a semiconductor, and separating the base into a multiplicity of individual cells each of which has at least a pair of said lines extending along the surface thereof.

2,654,820
ELECTRIC IMMERSION HEATER
Robert Irving, Newcastle-on-Tyne, England, assignor to The Thermal Syndicate Limited, Wallsend, England, a British company
Application May 26, 1950, Serial No. 164,386
In Great Britain June 8, 1949
16 Claims. (Cl. 201—67)



1. An electric immersion heater for heating a fluid contained in a vessel, comprising, in combination, a tube having a closed end and consisting at least partly of a dielectric material; a former arranged in said tube; an electric resistance wire serving as heating element arranged in said tube and wound on said former; and an independent ground wire arranged in said tube in proximity of and spaced from said electric resistance wire so that upon penetration of said fluid into said tube said fluid establishes electric connection between said resistance wire and said ground wire so as to ground said resistance wire within said tube, thus preventing the passage of a dangerous current through the fluid contained in the vessel.

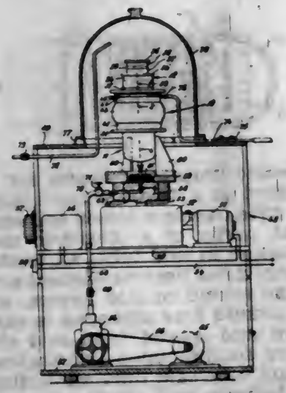
2,654,821
HOT MACHINING OF METALS
Horace W. Gillett, Columbus, Ohio, assignor, by mesne assignments, to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio
Application July 15, 1948, Serial No. 38,835
4 Claims. (Cl. 219—1)



1. The method of machining a metallic workpiece comprising establishing an electric arc between an electrode and the surface of the workpiece to heat a limited area of the latter sufficiently to materially reduce the hardness thereof, rotating the workpiece relative to the electrode so that the arc progressively rapidly heats successive contiguous limited areas of the workpiece, and then engaging a material removing tool with the heated portions of the workpiece a predetermined time after each of said limited areas thereof has passed beneath said electrode, the said time interval being determined from the nature of the material to be machined, the speed of rotation thereof and the electric power applied to

the arc and being sufficient to allow penetration of the heat to the depth necessary to materially reduce the hardness of the material throughout the depth of material removal.

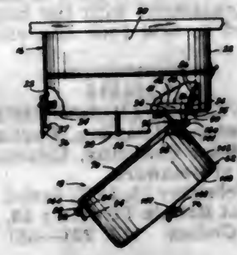
2,654,822
METHOD OF SEALING THE ENVELOPES OF VACUUM TUBES
George J. Agule, Stamford, Conn., assignor to Machlett Laboratories Incorporated, Springdale, Conn., a corporation of Connecticut
Application September 30, 1949, Serial No. 118,878
2 Claims. (Cl. 219—10)



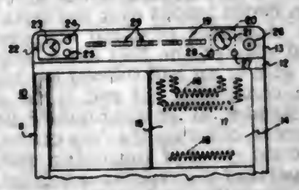
1. A method of making the final seal to close the envelope of a vacuum tube made up of a cathode sub-assembly and an anode sub-assembly provided with contacting marginal circumferential metal parts to be joined to form said seal which parts are well removed from dielectric portions of the envelope, one of said sub-assemblies having an outlet, which comprises mounting the tube with its axis vertical for rotation on said axis, applying solder along the entire outer edge of one of the parts adjacent the other part, maintaining an atmosphere of a non-oxidizing gas outside the tube and in contact with the parts, connecting the outlet to a source of vacuum and thereby removing air from within the tube and filling it with the gas drawn in between the parts, disconnecting the outlet from the source and closing the outlet, rotating the tube at low speed, inductively heating the parts and solder by means of an electrical induction coil positioned around the joint and within the surrounding non-oxidizing atmosphere and in a manner capable of limiting the heating of parts to a region imemdiately adjacent the seal, opening the outlet, after the solder has begun to flow and while the rotation is continuing, and discontinuing the heating, when the solder has flowed completely.

2,654,823
POPCORN MACHINE
Arthur D. Altemiller, Affton, Mo., assignor to Hercules Steel Products Corporation, Galion, Ohio, a corporation of Delaware
Application September 15, 1948, Serial No. 49,429
2 Claims. (Cl. 219—19)

2. In a popcorn machine, a fixed supporting assembly, and a movable popper assembly hinged to the supporting assembly, said popper assembly being adapted selectively to occupy either an operating or a non-operating position relative to said supporting assembly, said popper assembly comprising a kettle and electrical means for heating the kettle, said electrical means including one member of a bayonet type electrical contactor, there being a complementary member of the contactor in fixed relation to said supporting assembly, said respective contactor members being positioned for either conducting contact or non-conducting separation in accordance with the selected position of the popper assembly, said two contactor members comprising a male member and a female member, said male member including a pair of knife-like contact blades supported in an insulator body and extending in parallel arrangement therefrom, said female member including an insulator body having a pair of rectangular chambers in side-by-side arrangement therein, and a narrowed U-shaped blade-receiving contact element in each of said chambers, said female insulator body further having a slot coextensive with each chamber for pivotal access of said blade to said blade-receiving element.

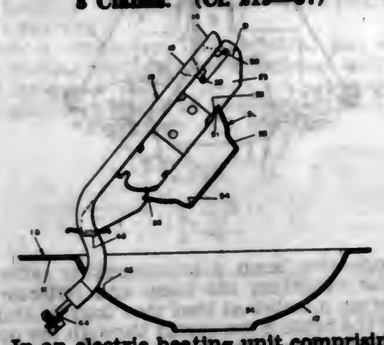


2,654,824
CONTROL FOR ELECTRIC OVENS
George W. Schroeder, Sandy Hook, Conn., assignor to General Electric Company, a corporation of New York
Application March 8, 1951, Serial No. 214,559
9 Claims. (Cl. 219—20)



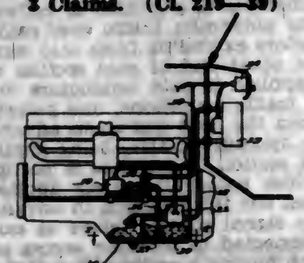
4. An electric baking oven comprising first and second electric baking units respectively disposed adjacent to the top of said oven and adjacent to the bottom of said oven, a first bus connected commonly to one terminal of said first baking unit and to one terminal of said second baking unit, a second bus connected commonly to the other terminal of said first baking unit and to the other terminal of said second baking unit, first and second conductors, first and second electric current supply lines, a unitary control switch having regular bake and time bake positions, said control switch being operative into its regular bake position to connect said first supply line to said first bus and to connect said second supply line to said second bus, said control switch being operative into its time bake position to connect said first supply line to said first conductor and to connect said second conductor to said second bus, and a timer switch having first and second positions, said timer switch being operative into its first position to connect said second supply line to said second conductor and to connect said first conductor to said first bus, said timer switch being operative into its second position to disconnect said second supply line from said second conductor and to disconnect said first conductor from said first bus.

2,654,825
ELECTRIC HEATING
Harry C. Cunningham, Pittsburgh, Pa., assignor to Edwin L. Wiegand Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 24, 1949, Serial No. 117,690
8 Claims. (Cl. 219—37)



4. In an electric heating unit comprising a top plate having a top portion and a depressed portion, and which depressed portion has a lateral opening for the passage of the terminals of an electric heating element therethrough, a heating element movable into and out of operative position, laterally extending terminal portions on said heating element adapted to extend through the lateral opening in said depressed portion and providing for an electrical connection to said heating element, and a plate through which the laterally extending terminal portions of the heating element extend, said plate being in advance of the lateral opening through the depressed portion and so positioned with respect to the laterally extending terminal portions of the heating element as to cover and shield the lateral opening in the said depressed portion when the heating element is in operative position and to move away from such covering and shielding position as the heating element is moved out of operative position.

2,654,826
ANTIFREEZE HEATER
Marcus A. Spurlin, San Francisco, Calif.
Application August 14, 1951, Serial No. 241,765
3 Claims. (Cl. 219—39)



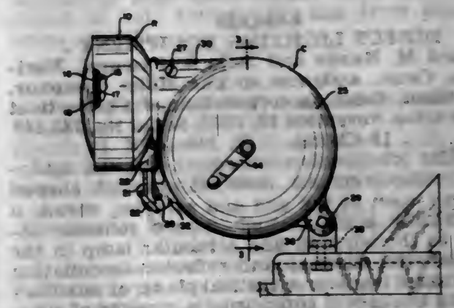
1. In a heating unit, the combination which comprises a coil having antifreeze therein, a pump connected to the coil for circulating the antifreeze through the coil, a heater connected to the coil for heating the antifreeze, a thermostat positioned adjacent to the coil, a timer, and a circuit connecting the timer, thermostat heater and motor of the pump to a battery to provide an independent heating system.

2,654,827
ARTIFICIAL WINDOW
Robert L. Pierce, San Antonio, Tex.
Application December 16, 1949, Serial No. 133,249
1 Claim. (Cl. 240—1)



A window including a framework, said framework comprising a plate forming the bottom thereof, a deflector supported on said plate, and extending upwardly therefrom and having means at its upper end for connection to a wall receiving said window to support said deflector, a glass wall mounted on said plate, a lip formed on said plate engaging and securing a portion of said glass wall on said plate, said glass wall extending outwardly and upwardly from said plate and being substantially vertically coextensive with said deflector, support means for said glass wall connected to the upper portion thereof comprising a facing plate having a portion extending upwardly from said glass wall, a member extending generally laterally of said wall and having horizontal surfaces adapted to contact the perimeter of a wall opening and an element intermediate and interconnecting said member and said facing plate to said glass wall, a second plate mounted on said deflector, and extending downwardly therefrom, a light reflector mounted on said second plate having lighting fixtures mounted adjacent thereto, said reflector extending between said glass wall and said deflector, and being so mounted that light from said fixtures will be directed by said reflector from said fixtures against said deflector and onto said glass wall.

2,654,828
LAMP WITH REMOVABLE REFLECTOR UNIT
Albert F. Vandemberg, Denver, Colo.
Application November 19, 1951, Serial No. 256,972
6 Claims. (Cl. 240—8.18)



3. An electric lamp comprising a housing having an opening, a reel in said housing, a second

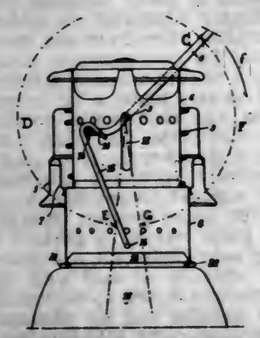
housing carrying a reflector and an electrical socket for a light bulb and being provided with a portion for fitting into the opening of the first housing, an electrical cord for winding on and off the reel and connected to the socket and extending through the first housing opening and onto the reel, means for connecting the cord to a source of electricity, and means comprising a clamp structure carried by the second housing for attaching the two housings together with the second fitted into the opening of the first, or in a position free of said opening or permitting their separation and the mounting of the second housing on a support other than the first housing.

2,654,829

GLASS LIFTING MECHANISM FOR HURRICANE LAMPS

Pierre François Marie Pitavy, Chalon-sur-Saone, France, assignor to Societe Anonyme dite: Societe Industrielle de Ferblanterie, Paris, France, a corporation of France

Application June 1, 1951, Serial No. 229,365
In France September 15, 1950
3 Claims. (Cl. 240—32)



1. A hurricane lamp comprising a fixed bonnet, a vertically slidable chimney mounted in said bonnet, a loading spring interposed between said fixed bonnet and said slidable chimney, a swingable bail hinged to the bonnet formed within the chimney with a double bend, a pair of diametrically opposite longitudinal slots in the wall of the chimney for the bail to project therethrough and a double-armed V-shaped clip within the chimney, hinged by its arms to the latter at the base thereof and separate from the double bend of the bail, the apex of the V-shaped clip being return-bent to provide a hook positioned in the path of swinging movement of the double bend upon rotation of the bail.

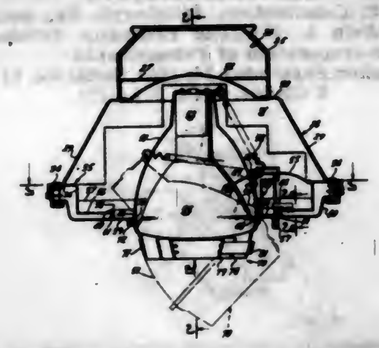
2,654,830

DIRECT LIGHTING EQUIPMENT.

Richard M. Runge and Julio A. Pascucci, Meriden, Conn., assignors to The Miller Company, Meriden, Conn., a corporation of Connecticut

Application November 13, 1947, Serial No. 785,648
11 Claims. (Cl. 240—78)

1. The combination with down lighting equipment comprising an inverted channel shaped wireway open at the end and carrying wiring, a downwardly acting trough-shaped reflector secured to the wireway and a tubular lamp in the reflector, the wireway and reflector terminating in the same transverse vertical plane, of auxiliary lighting equipment comprising a wireway of similar shape to the first wireway aligned with it and secured to it in abutting end-to-end relation so that the wiring may enter the latter wireway, a downwardly opening enclosure secured to the second wireway, the enclosure having a rectangular mouth at the same height as the reflector mouth and of the same width, an apertured bridging member carried by the enclosure,



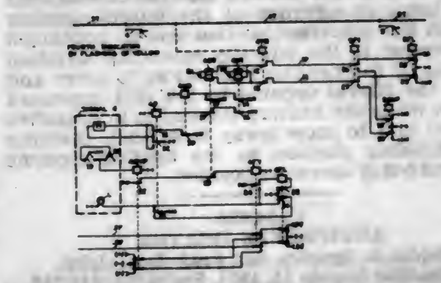
an incandescent lamp, a concentrating reflector, means for mounting the lamp and reflector on the bridging member so that they may be shifted to direct the beam downwardly through the opening in the bridging member in all azimuths, and a lamp housing having a contour to close the opening in the bridging member in all positions of the lamp.

2,654,831

RAILWAY SIGNALING SYSTEM

Joseph E. Willing, Rochester, and Glenn O. Ferm, Gates, N. Y., assignors to General Railway Signal Company, Rochester, N. Y.

Application November 9, 1950, Serial No. 194,842
2 Claims. (Cl. 246—50)



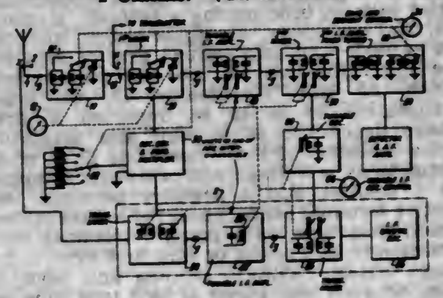
1. In combination, a section of railway track, a signal for governing traffic over said section, two conductors extending from said signal location to the other end of said section at which energy is applied to said conductors in accordance with traffic conditions, one polarity being applied when the next section in advance is occupied, the opposite polarity being applied when the second section in advance is occupied and both polarities being alternately applied at intervals when the third section in advance is occupied, two signal control relays at said signal location connected in multiple across said conductors each having a rectifier included in series with its windings, said rectifiers being oppositely connected to permit the energization of only one relay in response to either polarity of energization of said conductors, and each of said relays having slow acting structural characteristics, one of said relays having a permanent magnet associated therewith to render it responsive to only a particular polarity and the other having a permanent magnet associated therewith for rendering it responsive to only the opposite polarity, said relays both being steadily actuated in response to the intermittent alternate application of both polarities, and signal control circuits governed by said relays for causing said signal to give different proceed indications dependent upon whether one or the other or both of said signal control relays are actuated.

2,654,832

HIGHLY SELECTIVE AND STABLE WIDE RANGE FREQUENCY CONVERTING CIRCUITS

Harris A. Robinson, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application March 26, 1948, Serial No. 17,254
4 Claims. (Cl. 250—13)



1. In a frequency converting circuit arrangement adaptable for a radio receiver or transmitter, a double superheterodyne receiver and associated transmitter comprising a high frequency crystal oscillator, a plurality of crystals arranged for selective connection to said oscillator to cause the same to operate at a selected frequency, each crystal frequency determining a particular segment of the over-all frequency spectrum in which a desired frequency channel is located, a first mixer coupled to said oscillator, a tunable I. F. amplifier coupled to said mixer, said amplifier being tunable through the frequency interval separating adjacent crystal frequencies, a second mixer coupled to said amplifier to receive a first I. F. therefrom, a tunable oscillator coupled to said second mixer, the frequency of said tunable oscillator being selected to produce, by heterodyne action with the first I. F., a second I. F. mixer output of essentially fixed frequency, and a selective fixed tuned second I. F. amplifier coupled to said second mixer, with additional means for transmission, including means for converting in a first transmitter mixer the output of the said tunable oscillator and the output of a crystal oscillator which generates a frequency equal to the second I. F., a tunable amplifier which selects a frequency component equal to the first I. F., a second transmitter mixer for combining this first I. F. component with the selected high frequency crystal oscillator output, said second mixer having therein means for providing a desired signal side band in the output of this mixer.

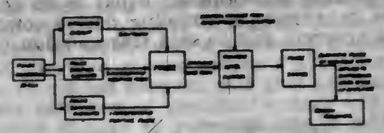
2,654,833

RADAR BEACON TRANSMITTER

Arthur Valentine Lord, Cambridge, England, assignor to Pye Limited, Cambridge, England, a British company

Application September 29, 1949, Serial No. 116,755
In Great Britain March 3, 1948
7 Claims. (Cl. 250—13)

4. In a radar beacon system comprising a beacon receiver and a beacon transmitter, apparatus for reducing the sensitivity of the beacon receiver as a function of the duty cycle of the beacon transmitter, comprising means for generating a train of pulses, means controlled by the



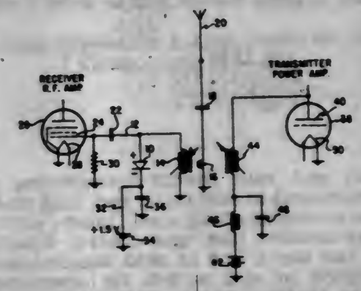
duty cycle of the transmitter for varying the width of the pulses, and means for reducing the sensitivity of the receiver in response to the pulses of variable width.

2,654,834

TRANSMIT-RECEIVE SWITCH

Bert Zarky, Chicago, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois

Application November 1, 1949, Serial No. 124,895
2 Claims. (Cl. 250—13)



1. In a radio transmitter-receiver system, the combination including a common antenna circuit, an input circuit for applying signals to the receiver portion of said system and including a high-Q inductance coil coupled to said antenna circuit, a metallic-oxide rectifier shunted across said inductance coil in said receiver input circuit presenting negligible capacitance to said input circuit, biasing means coupled to said rectifier to render said rectifier non-conductive to signals below a selected threshold so that optimum coupling between said input circuit and said antenna circuit is maintained for such signals, an output circuit for the transmitter portion of said system, a high-Q inductance coil included in said output circuit and coupled to said antenna circuit and to said receiver input circuit and supplying a signal to the latter circuit exceeding the aforesaid threshold to render said rectifier conductive and place a low resistance shunt across said inductance coil in said receiver input circuit reducing the Q thereof and decoupling said input circuit from the output circuit of said transmitter and from said antenna circuit.

2,654,835

APPARATUS FOR STATIC PULSE REJECTION

Morris M. Newman, St. Paul, Minn., assignor to Lightning & Transients Research Institute, Inc., Minneapolis, Minn., a corporation of Minnesota

Application January 30, 1950, Serial No. 141,217
7 Claims. (Cl. 250—20)

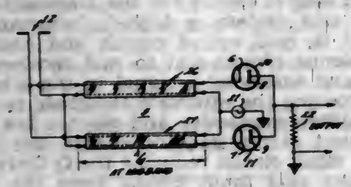
1. In apparatus for static pulse rejection for radio receivers, an antenna, energy transferring means coupled to the antenna and to the receiver and including a switch connected to the antenna circuit of the receiver and adapted upon actua-

tion to disconnect the receiver from the antenna, a pulse shortening transmission line shorted at its outer end and terminated at its input end in an impedance substantially equal to its characteristic impedance, a coupling device connected to said antenna and to said transmission line at



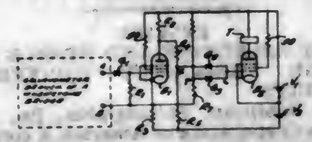
its input end, said energy transferring means being connected to said input end, said transmission line shortening long static pulses arriving at said transmission line, and control means coupled to the input end of said transmission line and coupled to said switch for operating said switch to blank out the static pulses prior to arrival at said receiver.

2,654,836
CONVERTER CIRCUIT
Francis X. Beck, Woodbury, and Harold T. Bent, Jr., Merchantville, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application April 24, 1952, Serial No. 284,162
9 Claims. (Cl. 250—20)



1. A bridge-type mixer circuit for high frequency signal receivers and the like, comprising in combination, a pair of two-conductor impedance-matching transformers; a pair of non-linear conducting devices; a first series circuit comprising a source of mixer waves, one conductor of each of said transformers and one of said non-linear devices; a second series circuit comprising said source, the other of said conductors of each of said transformers, and the other of said non-linear devices; and a source of modulated carrier waves connected across points of equal potential in said series circuits, whereby currents from said source of mixer waves are effectively isolated from said source of carrier waves.

2,654,837
WHEATSTONE BRIDGE TESTING ARRANGEMENT
Roelof M. M. Oberman and Antonie Snijders, The Hague, Netherlands
Application May 5, 1948, Serial No. 25,108
In the Netherlands May 8, 1947
8 Claims. (Cl. 250—27)

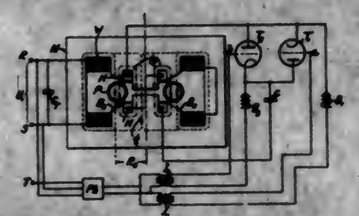


1. A testing arrangement for insertion into the galvanometer branch of a Wheatstone D. C. bridge arrangement, comprising, in combination, a first vacuum tube having a cathode, a control grid, and an anode; an input circuit including said cathode and said control grid of said first tube and being inserted into the galvanometer branch of the Wheatstone D. C. bridge arrangement so as to be imparted a direct voltage depending as to sign and magnitude on the condition of the Wheatstone D. C. bridge arrangement; a voltage source having a tapping and a positive and a negative terminal, said negative terminal being connected to said cathode of said first tube, said positive terminal being connected to said anode of said first tube; a first voltage divider having a tapping and being inserted between said anode of said first tube and said negative terminal of said voltage source; a second voltage divider having a tapping and being inserted between said cathode of said first tube and said positive terminal of said voltage source, whereby said tappings of said voltage dividers are imparted a potential difference depending on the sign and magnitude of the direct voltage imparted to said input circuit; a second vacuum tube having a cathode, a control grid and an anode, said cathode of said second tube being connected to said tapping of said voltage source; a first rectifier and a second rectifier inserted, respectively, between said control grid of said second tube and said tappings of said voltage dividers so that one of said rectifiers is conductive and the other non-conductive depending on the sign of the potential difference imparted to said tappings of said voltage dividers; and a testing device inserted between the anode of said second tube and said positive terminal of said voltage source, whereby the anode current of said second tube flowing through said testing device is responsive to the potential difference imparted to said tappings of said voltage dividers, which in turn depends on the sign and magnitude of the direct voltage imparted to said input circuit.

2,654,838
IMPULSE CIRCUIT
Rolf Widerøe, Zurich, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland, a joint-stock company
Application September 3, 1948, Serial No. 47,641
In Switzerland September 6, 1947
2 Claims. (Cl. 250—27)

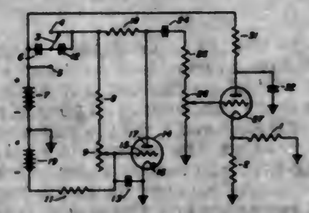
1. The combination with an electron accelerator of the type comprising an annular tube into which streams of electrons are injected for acceleration on an orbit established within the tube, a magnetic structure including a central core portion extending through the central opening within said tube and annular control pole portions confronting one another at said tube, a main

winding on said magnetic structure surrounding said control poles, and a source of alternating voltage connected across said main winding to establish an alternating current therein producing a time varied magnetic field comprising a first



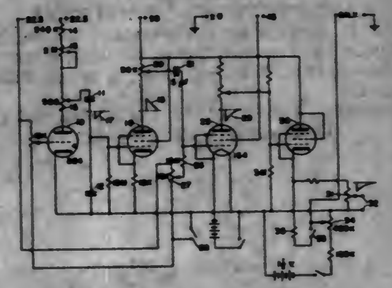
component through said central core portion effecting acceleration of said electrons and a second component through said control poles confining the electron streams during the accelerating period to a path of travel along an orbit of substantially fixed radius; of means for effecting a change in the radius of said electron orbit at the end of each acceleration period to discharge the electron stream from the accelerator, said means comprising, an auxiliary winding surrounding only said central core portion and which is inductively coupled with said main coil so as to cause an alternating voltage to be induced therein, a condenser, a pair of grid controlled gaseous discharge valves connected in parallel in back-to-front relation, means connecting said auxiliary winding, condenser and paralleled valves in series to form a series resonant circuit, and means deriving from said source of alternating voltage control voltages for the grids of said valves for rendering said valves periodically conductive in alternation at the end of each electron acceleration period to discharge a current pulse from said condenser through said auxiliary winding thereby effecting a change in the ratio between said flux components and hence a change in radius of the electron orbit, the conductive period of each valve including a peak of said alternating voltage whereby to effect full recharging of said condenser prior to the next discharge thereof.

2,654,839
ELECTRIC PULSE GENERATOR
Lyman R. Spaulding, Portland, Oreg.
Application February 24, 1949, Serial No. 78,201
3 Claims. (Cl. 250—27)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In combination a circuit including two condensers and a source of electrical potential connected in series and a manually operated switch arranged to selectively and alternately short-circuit each of said condensers, said circuit being connected in series with first and second resistors and arranged to produce upon operation of said switch a rapid change in the amount of electrical energy stored in the short-circuited condenser, said change causing a flow of electrical energy through said resistors, an electrical discharge device having a plate, a cathode and a control electrode, the plate-cathode circuit of said discharge device being connected in parallel with a circuit including said first resistor, the grid-cathode circuit of said discharge device being connected in series with a source of biasing potential and said second resistor, a second condenser connected between said grid and cathode, whereby said flow of electrical energy will cause an abrupt change of potential across said first resistor and whereby said electrical discharge device will become conductive and substantially short-circuit said first resistor at a predetermined time after the initiation of said energy flow to cause a square potential pulse to appear across said first mentioned resistor.

2,654,840
PULSE GENERATOR
Clyde E. Wiegand, Oakland, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application September 1, 1950, Serial No. 182,851
1 Claim. (Cl. 250—27)

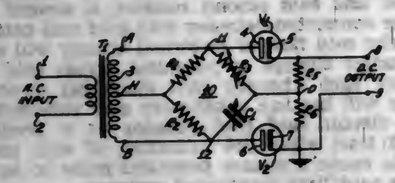


An impulse generator comprising a gaseous triode relaxation oscillator, a phase inverter, a hyperbolic translator and a cathode follower, said gaseous triode relaxation oscillator being adapted to generate negative sawtooth impulses, means electrically coupling the sawtooth oscillator to the phase inverter to thereby produce positive sawtooth impulses, said hyperbolic translator being a thermionic tube having at least a cathode, grid and anode, a source of adjustable bias, means for electrically impressing said bias on the grid-cathode circuit of said translator and adjusting the value to give an E_P-E_G characteristic of hyperbolic form, means for electrically injecting said positive sawtooth impulses serially in the translator cathode-grid circuit, means electrically coupling the grid-cathode circuit of the cathode follower in shunt substantially with the anode-cathode interelectrode space of the translator tube, and terminal means connected to the cathode-follower output.

2,654,841
FREQUENCY DISCRIMINATOR
Oscar B. Dutton, Redondo Beach, Calif., assignor to Radio Corporation of America, a corporation of Delaware
Application October 20, 1950, Serial No. 191,120
4 Claims. (Cl. 250—27)

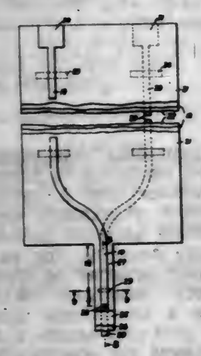
1. A frequency discriminator circuit comprising an input impedance having a pair of end terminals between which an alternating input voltage appears, a pair of rectifiers each having an input electrode and an output electrode, means coupling the input electrode of each rectifier

to a corresponding one of said terminals, a pair of output impedances coupled in series between the output electrodes of the two rectifiers, a bridge-type frequency-responsive phase shifting impedance network having four arms and having a pair of input and a pair of conjugate output



terminals, means connecting each of said input terminals to a corresponding one of said first-named terminals, means coupling one of said output terminals to an intermediate point on said input impedance, and means coupling the other output terminal to the junction of said pair of output impedances.

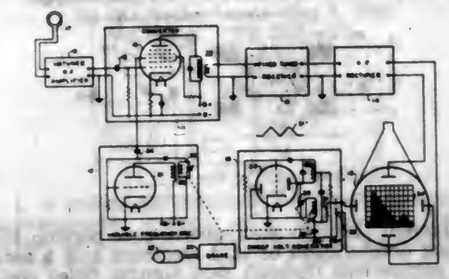
2,654,842
RADIO FREQUENCY ANTENNA
Herbert F. Engelmann, Mountain Lakes, N. J., assignor to Federal Telecommunication Laboratories, Inc., Nutley, N. J., a corporation of Delaware
Application July 21, 1951, Serial No. 237,857
13 Claims. (Cl. 250—33)



1. In a microwave system, a first conductor, a second conductor of planar shape wider than said first conductor, said second conductor being exposed conductively to open space on opposite sides of the plane thereof and having an opening therethrough across which extends said first conductor whereby part of the microwave energy propagated along said conductors is radiated by said opening into open space on both sides of the plane of said second conductor.

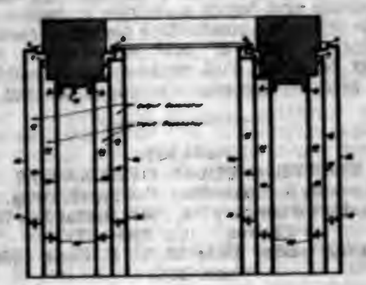
2,654,843
WAVE GENERATOR
Everett R. McCoppin, Dayton, Ohio
Original application November 7, 1945, Serial No. 627,273. Divided and this application July 27, 1949, Serial No. 107,132
8 Claims. (Cl. 250—36)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A sweep-voltage generator comprising a single source of alternating current, an impedance, means for deriving two alternating voltages from said single source, means for applying said two voltages in phase opposition across said impedance, means for rectifying the resultant voltage across said impedance, and means for periodically varying the amplitude of one of said



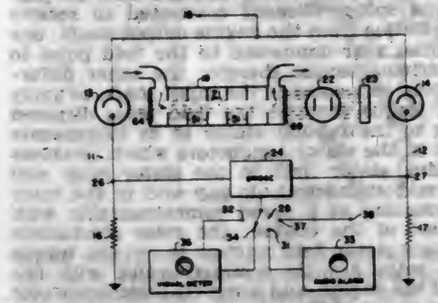
alternating voltages to vary the resultant voltage across said impedance, whereby a sweep-voltage is produced in the output of said rectifying means.

2,654,844
ULTRAHIGH-FREQUENCY GENERATOR AND ELECTRON TUBE
William W. Eitel, Woodside, Jack A. McCullough, Millbrae, and Harold E. Sorg, Redwood City, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California
Original application April 8, 1948, Serial No. 86,232, now Patent No. 2,573,196, dated October 30, 1951. Divided and this application June 19, 1951, Serial No. 232,294
2 Claims. (Cl. 250—36)



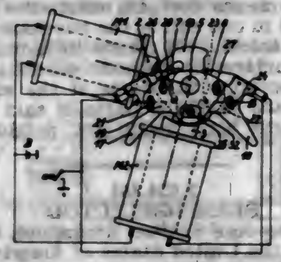
1. A radio-frequency generator having input and output cavity resonators comprising six concentric cylindrical conductors, a first pair of said conductors being innermost and outermost, a second pair lying between the first pair and a third pair lying between the second pair, the spaces between the first and second pairs of conductors forming a pair of concentric cavity sections of the output resonator and the spaces between the second and third pairs of conductors forming a pair of concentric cavity sections of the input resonator, and an annular electron tube coaxial with the conductors and having ring-shaped electrodes including a cathode and grid and anode, the ring-shaped anode being electrically connected to ends of the first pair of conductors, the ring-shaped grid being electrically connected to ends of the second pair of conductors and the ring-shaped cathode being electrically connected to ends of the third pair of conductors.

2,654,845
VAPOR DETECTOR
Cecil S. Pressey, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application November 7, 1952, Serial No. 319,231
6 Claims. (Cl. 250—43.5)



1. In a portable mercury vapor detector, the combination comprising a mercury vapor lamp, automatic starting means connected to said lamp, an elongated cylinder forming a sample chamber disposed with one end adjacent said lamp, a plurality of apertured baffles mounted in spaced-apart relation within said cylinder with the apertures in alignment, intake and outlet means mounted transversely of said cylinder at opposite ends thereof, a window transparent to ultraviolet light sealed across either end of said cylinder, blower means mounted on said outlet means to provide a continuous flow of air to be monitored through said cylinder, a tube disposed with one end adjacent said lamp, a second phototube disposed at the other end of said tube, a balanced parallel circuit including said first phototube in one branch and said second phototube in the other branch, a bridge circuit connected between equal voltage points of the branches of said balanced parallel circuit, and indicating means connected to said bridge circuit.

2,654,846
STEP-BY-STEP ELECTRIC MOTOR
Willy Lohs, Berlin-Siemensstadt, and Friedrich Sommer, Berlin-Nikolassee, Germany, assignors to Siemens & Halske Aktiengesellschaft, Munich and Berlin, Germany, a corporation of Germany
Application November 30, 1951, Serial No. 259,976
In Germany December 13, 1950
6 Claims. (Cl. 310—49)



1. A telephone switching device of the class described comprising a drive motor, said drive motor comprising a stationary frame, a shaft journalled in said frame, said shaft carrying a control cam and an armature, a plurality of coil-carrying cores on said frame for magnetic coaction with said armature to rotate said shaft, a plurality of contact sets operable by said cam responsive to rotation thereof for governing the actuation of said coils, and a device for adjusting the positions of said contact sets relative to the angular positions of said control cam to bring about actuation of said contact sets in predetermined angular positions of said armature, said device comprising a carrier for each contact set, a mounting member for each contact set, means for pivotally mounting each carrier on its associated mounting member, means for pivotally mounting said mounting members on a common axis, a polygonal adjusting disk carried on said motor shaft, said disk forming a plurality of straight edges, a straight baking surface formed on a stationary motor part, and a holder member for insertion between any one of the straight edges formed by said adjusting disk and said stationary surface to hold the motor shaft and associated parts including said cam and said armature in predetermined angular position for subsequent angular displacement of the respective carrier and mounting members of said contact sets to adjust said contact sets for predetermined actuation by said cam.

2,654,847
MOTORIZED DRINK MIXER
W. Arthur Ernst, Racine, Wis.
Application September 15, 1950, Serial No. 184,956
18 Claims. (Cl. 310—68)

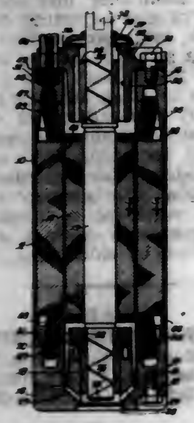


1. In a motor driven mixer, the combination with a stand comprising a generally upright column, of a head member comprising integrally a relatively narrow column cap portion, and a wider upwardly opening motor housing portion offset from the column and having an opening in its bottom, means connecting the cap portion to the column, a motor mounted on said member and disposed in the motor housing portion and projecting thereabove, said motor having a mixer-carrying drive shaft extension projecting downwardly through said opening and dependent on said motor for position, and a convex closure for said head member detachably connected thereto and covering said wider portion and enclosing the upper portion of the motor.

2,654,848
SUBMERGIBLE MOTOR CONSTRUCTION
Edward John Schaefer, Fort Wayne, Ind.
Application December 8, 1949, Serial No. 131,888
6 Claims. (Cl. 310—86)

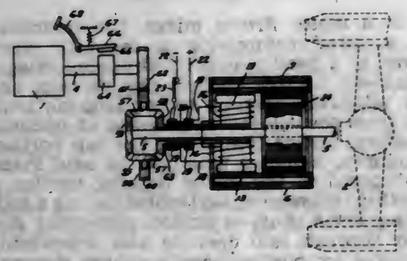
1. In a submersible electric motor, an annular stator adapted to be exposed to liquid both externally and internally and comprising an outer

shell, laminated core structure within said shell having a central bore and a plurality of longitudinal slots extending inwardly to said bore, windings in said slots, a thin cylindrical liner in the bore of said core structure, said liner being made of metal of high electrical resistance and being sufficiently thin to substantially avoid electrical losses and thereby having insufficient mechanical strength to be self-supporting, an adhesive layer between said liner and said core



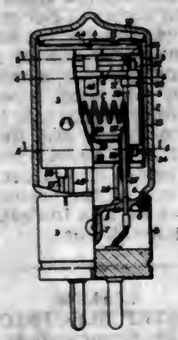
structure, said liner thereby being adhesively bonded to the core structure intermediate said slots, plastic filling material disposed in said slots and filling the interstices of the windings for retaining the latter, said filling material also operatively engaging and adhering to the portions of said liner extending across said slots whereby said portions are likewise firmly bonded and supported throughout the length thereof, and means for sealing the ends of said core structure.

2,654,849
ELECTRIC TORQUE-CONVERTER TRANSMISSION
Lev A. Trofimov, Willoughby, Ohio
Application September 25, 1950, Serial No. 186,554
2 Claims. (Cl. 310—99)



1. A power plant for automotive vehicles comprising an internal combustion engine having a rotary power output shaft whose speed is variable by the engine operator; a power input shaft to the vehicle driving axle; a transmission between the shafts comprising: a tubular stator body having stator conductors extending axially in the body and connected to end rings on the body; a rotor connected to drive the input shaft and comprising a rotor body having axially extending conductors connected to end rings on the body; the rotor body and stator body having coaxial cylindrical surfaces separated by a working air gap; a plurality of rotatable field poles of alternate polarity and energizing windings therefor, and circuit connections for energizing them with direct current, during rotation of the field poles; a differential gearing comprising a spider element rotatably supporting pinions and two differential gears both meshed with the pinions; the spider element connected to receive driving torque from the engine output shaft; one differential gear connected to the field poles to apply driving torque thereto; the other differential gear connected to the input shaft, to apply driving torque thereto; the field poles disposed relative to the tubular stator so as to generate current in the stator conductors which produces a rotating stator field in the stator body and across said cylindrical air gap and in the rotor body, rotating at a speed commensurable with the speed of the engine; the rotor conductors and rotary stator field reacting to develop torque on the rotor directly commensurable with the speed of the engine, and inversely commensurable with the speed of the rotor as determined by the speed of the driving axle.

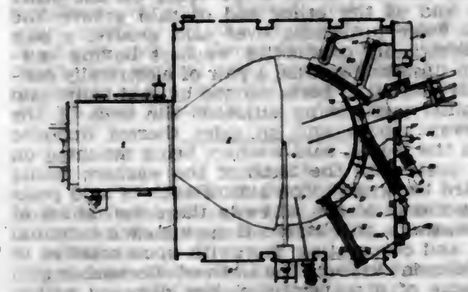
2,654,850
ELECTRODE ASSEMBLY FOR GAS TUBES
Earle K. Smith, West Orange, N. J., assignor to Electrons, Incorporated, Newark, N. J.
Application September 1, 1950, Serial No. 182,678
24 Claims. (Cl. 313—38)



1. In a grid control gas tube, a gas filled envelope containing a compact assembly of electrodes and supporting elements closely spaced to the walls of said envelope, said assembly comprising a cylindrical shield having separate compartments around a hot cathode and a control grid, an anode closely spaced to the grid compartment, supporting means for said electrodes including leads sealed in one end of the envelope and parts inside said shield, said means including metallic shielding surfaces at cathode potential electrostatically isolating the parts of the anode supporting means from the parts of said grid supporting means both inside and outside of said shield.

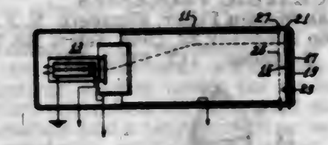
2,654,851
BEAM DEFLECTOR
Dominic Theodore Scalise, Richmond, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application January 24, 1952, Serial No. 268,071
18 Claims. (Cl. 313—62)

1. In a particle accelerator for the acceleration of ionized particles, a beam deflector comprising a plurality of curved and spaced conductive bars disposed about the path of travel of said ionized particles, a frame having the same general configuration as said bars radially and outwardly spaced from the latter, and a plurality of insu-



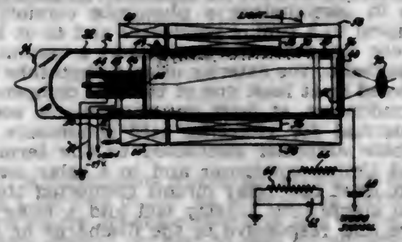
lating supporting means intermediate said bars and said frame and interconnecting the same providing thereby an inherently rigid, unitary assembly.

2,654,852
PHOTOCONDUCTIVE TARGET FOR CATHODE-RAY DEVICES
Robert R. Goodrich, Cranbury, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 1, 1951, Serial No. 229,429
3 Claims. (Cl. 313—65)



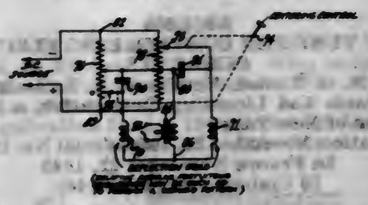
3. A cathode ray camera tube comprising an evacuated envelope containing an electron gun and a light-sensitive target assembly, said target assembly comprising a light-transparent supporting member, a light-transparent electrically-conductive film on said supporting member, and a coating comprising a mixture of red antimony tri-sulfide and antimony oxide on said conductive film said antimony oxide being in an amount of 1% to 5% of the mixture.

2,654,853
PHOTOELECTRIC APPARATUS
Paul K. Weimer, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 28, 1949, Serial No. 78,687
10 Claims. (Cl. 315—10)



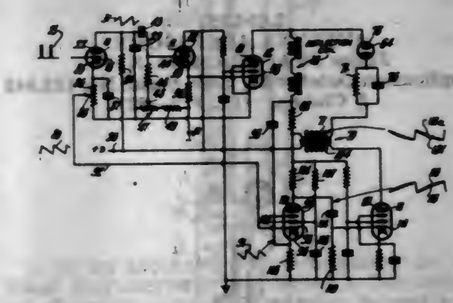
1. A light sensitive cell comprising a layer of selenium which is substantially completely of the red, amorphous variety, and two electrodes in contact with said layer.

2,654,854
IMAGE REGISTRATION IN COLOR TELEVISION SYSTEMS OR THE LIKE
Carl G. Seright, Trenton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 22, 1950, Serial No. 202,161
4 Claims. (Cl. 315—26)



1. In a cathode ray beam deflection system, in which an electromagnetic beam deflection yoke is employed for deflecting an electron beam such as to define a deflection raster, said yoke having a first and second deflection winding, each winding having two sections and the magnetic axes of said windings intersecting one another at such an angle, and the magnetic coupling between said windings being of such degree as to produce a skewed deflection raster, a skew correction arrangement comprising in combination: wave generating means connected with said deflection yoke for applying deflection signal to each section of said deflection windings, means connected with one of said windings for passing direct current through the sections thereof and means connected with said last named means and each winding section connected therewith for separately controlling the value of direct current passing through each of said winding sections.

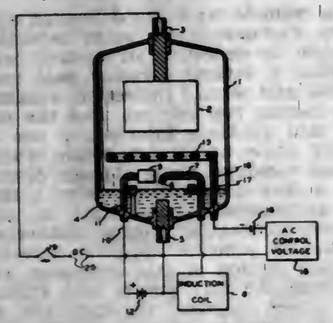
2,654,855
AUTOMATIC CONTROL FOR WAVE FORM
Bethel Edward Denton, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 28, 1949, Serial No. 96,113
6 Claims. (Cl. 315—27)



1. A system for maintaining a desired wave form comprising an electric wave source, a utilization circuit for said wave coupled to said source and comprising a branch circuit which includes a transformer secondary and a damper tube, a wave comparison device comprising an electronic amplifier having a plurality of terminals, means for applying an electric wave from said wave source to a terminal of said amplifier, means for applying a wave from said utilization circuit to another terminal of said amplifier in the same phase relationship as the wave applied from said wave source, said comparison device

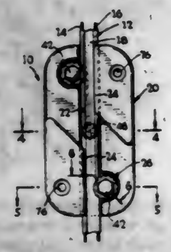
having means for deriving a differential effect, and means comprising the primary of said transformer for applying said differential effect to the branch circuit of said utilization circuit to offset a departure in the waveform appearing in said utilization device from the waveform supplied by said electric wave source.

2,654,856
IONIC TUBE FOR CONTROLLING ELECTRIC CURRENTS
Pierre M. G. Toulon, New York, N. Y., assignor to Products and Licensing Corporation, a corporation of New York
Application November 21, 1950, Serial No. 196,847
In France November 22, 1949
10 Claims. (Cl. 315—146)



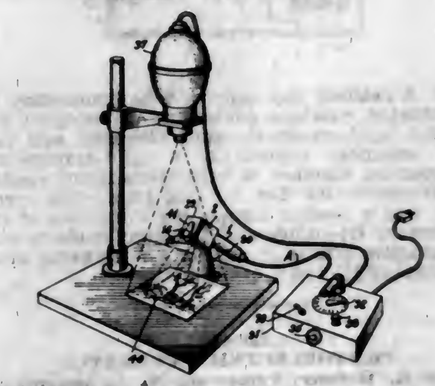
1. The combination of at least one pair of rectifiers, each of said rectifiers comprising a mercury pool cathode, an anode, a control grid, a first control electrode and a second control electrode, said second electrode physically separated from said cathode, a single induction coil for supplying voltage pulses of steep wave front to said second electrode of each of said rectifiers to initiate a spark at each of said cathodes, and means for supplying continuous direct voltage separately between each of said first electrodes and its mercury pool cathode to maintain an arc therebetween.

2,654,857
ANTENNA ACCESSORY
Julius Finkel, Brooklyn, N. Y.
Application October 27, 1949, Serial No. 123,948
2 Claims. (Cl. 317—62)



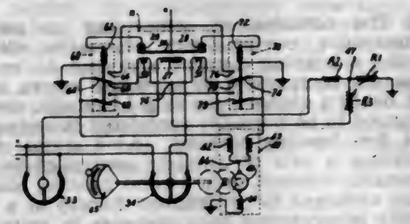
1. A lightning arrester for a twin lead transmission line constituting a ribbon of flexible electrically non-conductive material having conductors embedded in its opposite longitudinal edges, said arrester comprising a body of hard electrically non-conductive material adapted to be mounted on a supporting surface and having a wireway groove extending across a face thereof remote from said supporting surface, said groove being dimensioned to receive said line lying flat therein, said body having two non-overlapping overhanging ledges formed in one piece therewith, one ledge being on one side and at one end of said groove and the other ledge being on the other side and at the other end of said groove and each ledge projecting over said groove, a pair of electrically conductive washers having sawtooth upstanding rims, a pair of electrically conductive terminal posts carried by said body, said terminal posts being adjacent the ends of the wireway groove and on sides thereof opposite from the ledges, said washers being mounted on said posts with the teeth of the washers facing toward the groove, the axis of each of said posts being closer to the wireway than the radius of the washers, an element engaging each terminal post and cooperating therewith upon rotation of the element to force the teeth of the washer into an edge of a transmission line disposed within said wireway, an electrically conductive grounding post carried by said body, a pair of negative-glow discharge tubes whose break-down voltage is between 70 and 500 volts, said tubes being mounted within the interior of the insulating body, and circuit means connecting each tube in series between a different terminal post and the grounding post.

2,654,858
APPARATUS FOR THE INTEGRATION AND CONTROL OF RADIATION, PARTICULARLY FOR THE CONTROL OF EXPOSURE IN PHOTOGRAPHIC PROCESSES
Anton Martin Feller, Elizabeth, N. J.
Application February 23, 1949, Serial No. 77,768
9 Claims. (Cl. 317—128)



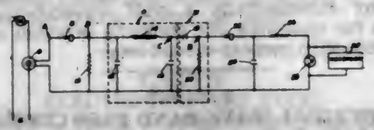
1. An improved apparatus for the automatic control of radiation, whereby said control is adapted to terminate the radiation according to a desired exponential time function, which comprises in combination a phototube conductively coupled to a timing condenser and to at least one rate compensating condenser, a conductive foil applied to the exterior of said phototube and connected to at least one of the rate compensating condensers, at least one controllable source of potential for charging said condensers, an electronic amplifier connected to one terminal of said timing condenser and to a relay circuit and at least one relay circuit connected thereto and comprising a relay coil and a relay armature and responsive to the discharge of said timing condenser, whereby the time of discharge of the said timing condenser previously charged to a controllable potential is made a desired function of the amount of radiation impressed upon said phototube by means of the application of said conductive foil to the exterior of said phototube, said foil being connected to independently adjustable sources of variable potential and adapted to cause a small amount of auxiliary variable current flow through the glass envelope of the phototube, whereby the discharge rate of the system is controllably altered, said control being accomplished by a rate variation of the potential applied to the exterior foil on said phototube.

2,654,859
MOTOR CONTROL
John L. Drnek, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Application December 14, 1949, Serial No. 132,903
15 Claims. (Cl. 318—29)



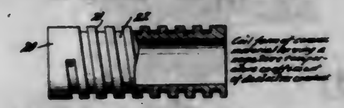
1. In a device for controlling a condition, the combination comprising a polarized relay having a main winding, means for applying voltage to said main winding in one direction or the other in accordance with the departure of the condition from a desired value, a condition controlling member, an electric motor for positioning said condition controlling member, said motor having an armature and a resistance in series therewith, said resistance providing a source of voltage which varies in accordance with the speed of the motor, means including contacts controlled by said relay for causing rotation of the motor in a direction to correct said condition, said relay having a feedback coil therein connected to said variable voltage source for excitation in a direction to oppose the effect of the main winding on said relay, and a source of reference voltage for said feedback coil for bucking said variable voltage and of such magnitude that under stall conditions there is substantially no feedback effect.

2,654,860
CONSISTENCY MEASURING APPARATUS RESPONSIVE TO MOTOR CURRENT
William R. Lewis, Kansas City, Mo., assignor to C. J. Patterson Company, a corporation of Missouri
Application November 23, 1949, Serial No. 128,942
7 Claims. (Cl. 318—490)



7. A consistency measuring apparatus comprising a stirring motor, an alternating electric current source, means connecting said source to said motor, means coupled to said connecting means for producing an alternating current proportional to the current supplied to said motor, means receiving said proportional alternating current for eliminating the power supply frequency from said proportional alternating current and permitting a second frequency produced by variations in the load requirements of said motor, and means responsive to said second frequency for differentiating the impulses of said second frequency and producing a non-pulsating direct current proportional to the load variations on said motor.

2,654,861
INDUCTANCE UNIT
Alfred S. Khouri, Milwaukee, Wis., assignor to Globe-Union Inc., Milwaukee, Wis., a corporation of Delaware
Application June 4, 1948, Serial No. 31,009
15 Claims. (Cl. 323—76)



1. A self-compensating inductance coil comprising a substantially cylindrical coil form of ceramic material having a negative temperature coefficient of dielectric constant substantially equal in value to but of opposite sign to its temperature coefficient of expansion and a conductor disposed spirally about said coil form and anchored to the coil form to cause the conductor and coil form to move together during movements of expansion and contraction due to temperature changes.

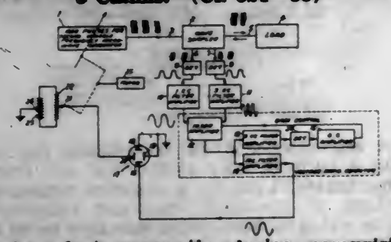
2,654,862
CELL FOR ELECTRICAL MEASUREMENT OF LIQUID DIELECTRICS
Clifford C. Petersen, Chicago, Ill., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Air Force
Application August 2, 1951, Serial No. 239,900
6 Claims. (Cl. 324—30)



1. In an apparatus for determining the electrical characteristics of a liquid, a first cylindrical dielectric supporting member having a portion closing one end thereof and the other end having a frustro-conical shape, a second cylindrical dielectric supporting member having a portion closing one end thereof and the other end having a frustro-conical shape, said cylindrical dielectric supporting members having different diameters and different lengths whereby a closed space, defined by the exterior of the cylindrical dielectric supporting member having the smaller dimension and the interior of the cylindrical dielectric supporting member having the larger dimension, is produced when the smaller cylindrical dielectric supporting member

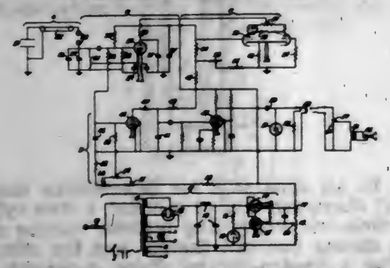
is inserted into the larger cylinder, a first electrode supported on the exterior of said cylindrical dielectric supporting member having the smaller dimensions and a second electrode supported on the interior of said cylindrical dielectric supporting member having the larger dimension.

2,654,863
MICROWAVE TEST EQUIPMENT
Henry J. Riblet, Belmont, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application December 1, 1949, Serial No. 130,422
3 Claims. (Cl. 324—58)



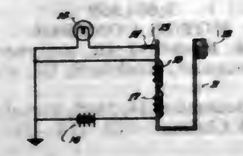
3. An electromagnetic device comprising a source of electromagnetic energy, means for transferring energy from said source to a load, means connected to said transferring means for measuring the magnitude of said energy in said transferring means at a pair of discrete points, means for varying the number of electrical wave lengths of said energy between said load and said measuring means comprising means for cyclically varying the frequency of said source, means responsive to said measuring means for computing the quotient of the amplitude of the energy at one of said points with respect to the amplitude of the energy at the other of said points, and means comprising a cathode ray tube responsive to said computing means for continuously displaying the relation between said quotient and the frequency of said energy.

2,654,864
MOISTURE METER
James Allen Tuck, New York, N. Y., assignor to Carolyn Lahr, Philadelphia, Pa.
Application July 23, 1949, Serial No. 106,412
6 Claims. (Cl. 324—61)



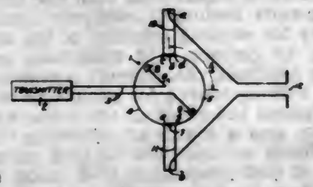
1. A moisture meter of the type wherein changes of the dielectric properties of a material to be tested are taken as a measure of moisture content, including a first electronic tube circuit and means for maintaining said tube in oscillation, a resistor in the input circuit of said oscillating tube, a capacitor connected to said resistor and having the material to be tested forming at least a portion of the dielectric thereof, whereby changes in the dielectric properties of said material alter the continuous current potential appearing across said resistor, means for indicating said potential and filter means interposed between said indicating means and said resistor, whereby substantially only continuous current potentials are indicated.

2,654,865
THERMALLY ACTUATED VOLTAGE INDICATOR
Charles W. Klug, Chicago, Ill.
Application March 16, 1950, Serial No. 150,013
3 Claims. (Cl. 324—106)



1. The combination comprising an ambient temperature compensated bimetallic element having a heating element arranged to be continuously energized from a voltage source, a second heating element for said bimetallic element arranged to be normally connected in series with said first heating element, and a shunt circuit including a pair of contacts controlled by said bimetallic element, said second heating element being arranged to be shunted thereby at a periodicity proportional to a decrease in voltage of the voltage source.

2,654,866
RADIO FREQUENCY AMPLITUDE CONTROL DEVICE
Laurin G. Fischer, North Arlington, N. J., assignor to Federal Telecommunication Laboratories, Inc., Nutley, N. J., a corporation of Delaware
Application August 23, 1951, Serial No. 243,283
14 Claims. (Cl. 332—56)

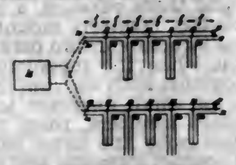


1. A radio frequency amplitude control device comprising two substantially half wavelength conductors and a pair of given loads coupling said conductors in series to form a loop, a third load, a pair of output connectors each equal to substantially a quarter wavelength, each of said connectors being coupled to said loop at the terminals of said given loads, means to couple said third load to said connectors, a pair of input coupling elements disposed in coupling relation to said loop at points spaced apart along said loop by substantially a half wavelength, and means for changing the coupling position of said elements with respect to said loop.

2,654,867
ELECTRICAL WAVE BAND PASS CIRCUITS
Edward Cecil Cork, Ealing, London, England, assignor to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain
Application October 5, 1949, Serial No. 119,617
In Great Britain October 1, 1948
6 Claims. (Cl. 333—9)

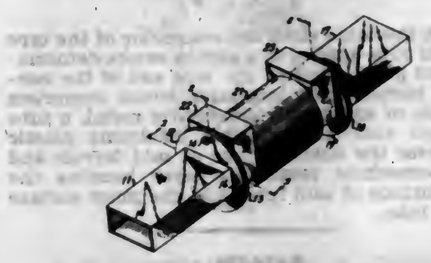
2. An electrical wave band-pass circuit comprising at least one pair of series-connected two-

conductor transmission line sections having respectively input and output ends and each having an electrical length of $2n-1$ quarter wavelengths at one frequency in the pass band of the circuit, n being any positive integer, a reactive impedance connected between the conductors at the output end of the first of said sections, a series resonant circuit tuned in said pass band and a



terminating load connected mutually in parallel between the conductors at the output end of the other section, the characteristic impedance of said sections being different and related to the shunt impedances at the ends of the respective sections to substantially annul the resistive component at the input end of the first section at a frequency in said pass band different from said frequency, due to variation in the electrical length of the sections from $2n-1$ quarter wavelengths at the different frequency.

2,654,868
MICROWAVE ROTATABLE JOINT
John F. Zaleski, Valhalla, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York
Application September 20, 1951, Serial No. 247,519
10 Claims. (Cl. 333—33)



1. A microwave rotatable joint comprising, a pair of hollow guides in axial alignment, a coaxial line containing a coaxial rotary joint, first transition means connecting one of said hollow guides to one end of said coaxial line in axial alignment therewith, said first transition means including a transverse hollow guide matching stub, and second transition means connecting the other of said hollow guides to the other end of said coaxial line in axial alignment therewith, said second transition means including a transverse hollow guide matching stub.

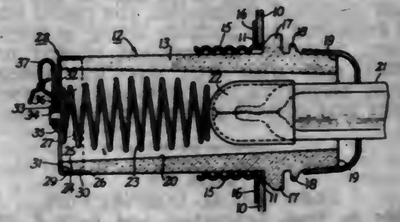
2,654,869
ELECTRIC SWIVEL PLUG
Ralph L. Mudd, Jr., Maplewood Park, Ill.
Application April 17, 1950, Serial No. 156,341
1 Claim. (Cl. 339—3)

The combination in a swivel plug of an outer casing having rigid prongs extending forwardly from the front thereof, said casing having a cylindrical chamber therein, a reduced bore from said chamber to the back end of said plug, a center piece rotatably mounted in said chamber and having a reduced portion extending outwardly through said bore, an electric cord connected thereto, a clamp on said cord, a pair of pin members connected to said clamp and engaging in openings in the end of the reduced portion of said center piece to operatively connect said cord and center piece together for rotary movement, and means for making an electric circuit between said prongs and said cord, said means



including a rotary track in said chamber, a spring pressed pivot on said center piece and a wiper engaging said track, said wiper connected to one wire in said cord and said pivot connected to the other, a cup connected by a wire embedded in said casing to one of said prongs, said pivot rotatable therein and said rotary track connected by another wire embedded in said casing to the other of said prongs.

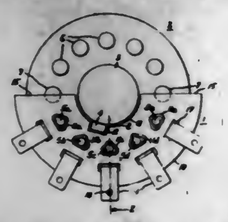
2,654,870
HIGH-VOLTAGE ELECTRODE HOUSING AND TERMINAL ASSEMBLY FOR GASEOUS DISCHARGE TUBES
Samuel C. Miller, New York, N. Y.; Rosalie E. Miller, executrix of said Samuel C. Miller, deceased
Application July 13, 1949, Serial No. 104,556
4 Claims. (Cl. 339—55)



1. In a high voltage tubular electrode housing of insulating material, for supporting an electrode tube on a frame, the housing having a substantially cylindrically contoured exterior body portion, a mouth at one end through which an electrode tube may pass, and a rim at the other end with flange means between said ends adjacent said mouth for mounting the housing to the frame, the interior of said housing being outlined by a wall continuously extended toward the rim end forming a drainage passage extended to the rim end and said rim end having indentations exteriorly positioned forming seat portions, the combination therewith of a supporting terminal mounting made of electrical conducting material adjacent said rim end having finger portions extending into said seat portions holding said mounting means against displacement relatively to said housing, the mounting means carrying a contact terminal extending inwardly toward the center of the tubular housing and

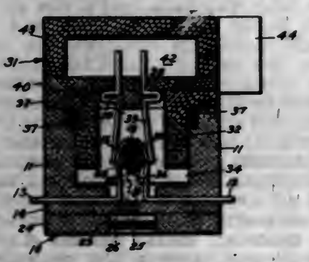
said mounting means also having other portions integral therewith and substantially covering said rim end solely, leaving a substantially clear passage for drainage.

2,654,871
CATHODE-RAY TUBE SOCKET
Donald B. Keim, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York
Application November 28, 1949, Serial No. 129,828
1 Claim. (Cl. 339—66)



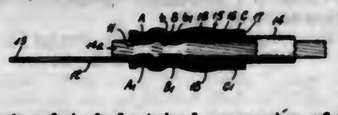
A sectoral tube socket for use with a cathode ray tube, or the like, of the type having provision for a plurality of equiangularly spaced contact pins positioned on an arc of less than 180° around a central keyed locating pin, comprising an annular segmented base portion of insulating material, the inner peripheral surface of said base portion provided with a reentrant keyway and shaped to conform to the contour of a part of said central keyed locating pin in only one position, said reentrant keyway acting as barrier means to facilitate alignment of said base portion with said tube base in said one position, and a plurality of equiangularly spaced electrical receptacles mounted and positioned on said base portion to engage said contact pins in said one position, said base portion having end portions extending circumferentially beyond each outermost electrical receptacle an arcuate distance at least equal to the arcuate distance between the centers of any two adjacent electrical receptacles, the radial edges of said extending end portions acting as barriers to prevent improper engagement of any of said contact pins with said electrical receptacles thereby permitting said electrical receptacles to engage said contact pins in only said one position.

2,654,872
ELECTRICAL CONNECTOR
Waldo A. Saul, Lexington, and Jack J. Staller, Waltham, Mass., assignors to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application September 21, 1951, Serial No. 247,602
3 Claims. (Cl. 339—75)



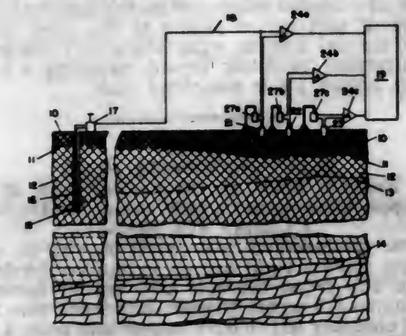
1. In an electrical connector, a first group of resilient contact members mounted in a first supporting structure in two parallel rows, a cam shaft mounted parallel to and between the rows of the contact members, said cam shaft having a cross section with portions of a large diameter and other portions of a small diameter, the portion of small diameter fitting freely between the rows of contact members, the portion of large diameter when adjacent to the rows of contact members forcing them outward, a second group of resilient contact members mounted in a second supporting structure in two parallel rows and so spaced that when the supporting structures are brought together with the cam shaft presenting a surface of small diameter to the second group of contact members, these members are in loose contact with the outer surface of the first group of contact elements and symmetrically arranged about the cam shaft so that when the shaft is positioned to present a surface of major diameter to the contacts they are forced into tight contact, and latch means under control of said cam shaft for locking the supporting structures together.

2,654,873
INSULATED ELECTRIC CONNECTOR
Robert C. Swengel, York, Pa., assignor to Aircraft-Marine Products Inc., Harrisburg, Pa., a corporation of New Jersey
Continuation of application Serial No. 523,004, February 19, 1944. This application October 16, 1951, Serial No. 251,466
4 Claims. (Cl. 339—213)



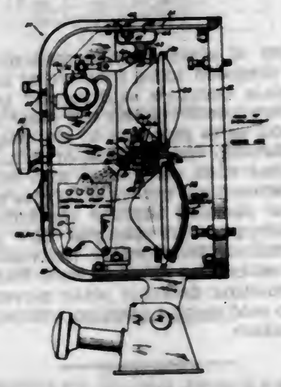
1. An insulated electrical connector of the type which is to be applied to a wire by severe deformation and plastic flow of the wire and of the connector including its insulation which comprises a ferrule of soft highly conductive metal, a tube of tough and stiffy flexible insulating plastic fitted over the outer surface of said ferrule and an intermediate cementing layer bonding the outer surface of said ferrule to the inner surface of said tube.

2,654,874
SEISMIC EXPLORATION SYSTEM
Frank Press, Palisades, N. Y., assignor, by mesne assignments, to Secony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of Texas
Application June 14, 1951, Serial No. 231,503
5 Claims. (Cl. 340—15)



1. In seismic exploration, the method which comprises releasing acoustical energy at a subsurface sending station for generating seismic waves which are reflected back to the surface from subsurface interfaces arriving a time interval after generation depending upon the depth of said interfaces, detecting reflected seismic waves upon arrival at a receiving station spaced a substantial distance from the sending station, said release of acoustical energy also generating surface waves which at said receiving station are of gradually increasing frequency and which tend to obscure reflected seismic waves, cancelling at said receiving station said obscuring effect of said surface waves in the range of frequencies where their phase velocity is approximately equal to that of sound in air by (*a*) generating signals from air waves produced by resonant coupling of earth movement produced by said surface waves at said receiving station, and (*b*) mixing said generated signals with those detected at said receiving station to cancel the obscuring effect of said ground waves upon said reflected seismic waves.

2,654,875
COMBINATION WARNING LIGHT AND STATIONARY HEADLIGHT
Arthur C. Hechler, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a corporation of New Jersey
Application August 22, 1950, Serial No. 180,775
21 Claims. (Cl. 240—49)



4. In a warning headlight, a lamp supporting frame, a lamp means in said frame, a bearing means supporting said frame for oscillatory movement about a vertical pivot axis, means connected to said frame to oscillate said frame about said bearing means, whereby said lamp means will project a movable pattern of light, said bearing means having a center passageway extending therethrough and conductor wires extending through said center passageway, one end of said wires being adapted for connection to said lamp means and the other end being adapted for connection to a current source, whereby the flexure of said conductor wires during oscillation of said frame will be minimized.

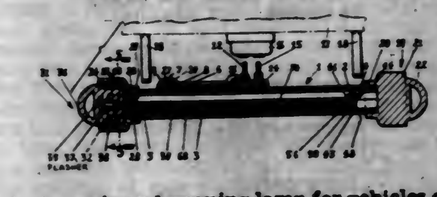
2,654,876
ROAD ACTUATED SAFETY SIGNAL FOR VEHICLES
Emery H. Austin, Stuart, Fla.
Application August 11, 1950, Serial No. 178,884
1 Claim. (Cl. 340—61)

A safety signal means comprising a pair of electric circuits, a signal circuit, a flashing relay interposed in said signal circuit, a signal operable by said relay a manually operable single pole double throw switch connected between said signal circuit and said pair of circuits, a second single pole double throw switch connected between said signal circuit and said pair of circuits, an operator engageable with said second switch, means mounting said operator on a vehicle in



a position to engage an upwardly projecting element in a roadway, a normally vertically disposed member engageable with said operator to effect engagement of the latter, and means mounting said member in a roadway, said second switch being selectively operable to close either circuit to energize said relay in accordance with the position of said first-mentioned switch.

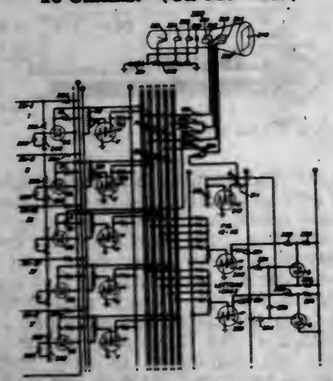
2,654,877
REPAIR AND WARNING LAMP FOR VEHICLES
Albert R. Sparace, Marlboro, N. Y.
Application September 3, 1952, Serial No. 307,647
2 Claims. (Cl. 340—146)



1. A repair and warning lamp for vehicles comprising a pair of longitudinal shells having their longitudinal edges detachably joined to one another so that the shells form a tubular body and being provided at their inner sides with insulation, a conductive member provided at the inner side of the end portion of one of said shells being insulated from the latter and extended through the insulation at the inner side of the shell, a conductive bolt connected to said conductive member being extended through the wall of the shell and insulated therefrom, a first cap member having a reduced cylindrical portion into which extends one end portion of each shell and having a main portion adjacent said cylindrical portion and a handle portion outwardly extending from that end of said main portion which is opposite said cylindrical portion, a second cap member having an enlarged cylindrical portion and a reduced cylindrical portion into which extends the other end portion of each shell so that said shells are held together by said cap members to form a tubular body, a pipe slidably extending through said second cap member into said tubular body, a head member secured to one end of said pipe having a hollow perforated cylindrical portion which is slidable into and out of the enlarged cylindrical portion of said second cap member and having a handle portion outwardly extending from that end of said perforated cylindrical portion which is opposite said pipe, a pair of sockets holding lamps being mounted within the perforated cylindrical portion of said head member, transparent members closing the perforations of said cylindrical portion of said head member, a double terminal plug adapted for being plugged into a plug-in-socket at the center portion of the rear of a vehicle being secured to the

outer side of one of said shells intermediate its ends and having one terminal conductively connected to the shell while its other terminal is insulated therefrom and is conductively connected to said conductive bolt, means for detachably securing said tubular member to the rear of a vehicle, and a pair of contact members provided at the other end of said pipe being in conductive connection with the terminals of the lamps in said sockets, one of said contact members being adapted for engaging the conductive member in one of said shells when the main portion of said pipe is pulled out from the tubular body, the other shell having its insulation interrupted by a longitudinal slot extending throughout the major portion of its length, and the other contact member being slidable in said slot in frictional engagement with the inner conductive portion of the shell.

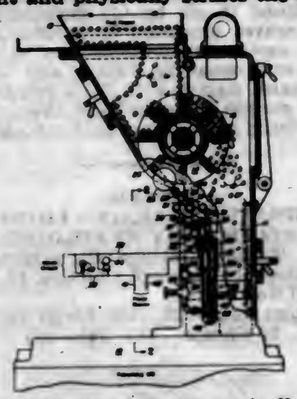
2,654,878
CATHODE-RAY TRANSLATING SYSTEM FOR PERMUTATION CODES
Wilton T. Rea, Manhasset, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Original application August 29, 1944, Serial No. 551,674, now Patent No. 2,458,030, dated January 4, 1949. Divided and this application December 4, 1948, Serial No. 63,597
16 Claims. (Cl. 340—165)



1. A permutation code signal responsive system comprising a plurality of code responsive circuit means, one for each unit of the code, and each having an output terminal, a cathode ray tube for translation of the incoming signals and including a first and a second plate for deflecting the beam horizontally and a third and fourth plate for deflecting the beam vertically, each of said plates being connected to a corresponding one of said output terminals, each of said receiving circuit means being adapted to establish at its output terminal two different potentials relative to the beam potential in response to the alernate conditions of its assigned code unit for effecting two different deflections of the beam.

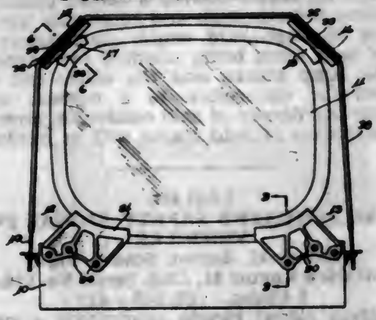
2,654,879
FLOW STOPPAGE DETECTOR FOR FUEL SUPPLY LINES
George P. Jackson, Flushing, N. Y., assignor to Combustion Engineering, Inc., New York, N. Y., a corporation of Delaware
Application April 17, 1950, Serial No. 156,477
4 Claims. (Cl. 340—239)

1. In a system comprising a conduit through which divided material normally flows, a flow detector plate disposed within said conduit, a shaft attached to one edge of said plate and providing therefor a hinge mounting around which the plate is free to swing between a first position wherein the plate body extends into the flow path of said material and a second position wherein the plate's free end has moved along the direction of flow towards one side of said path, and a counterweight also carried by said shaft and serving to hold said plate in said first position in the absence of said divided material flow but permitting plate movement into said second position when said material passes through the conduit and physically strikes the plate, the



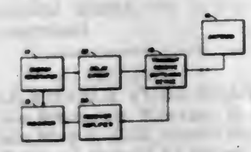
combination of alarm means controlled by said shaft and disposed to be inactive as long as said detector plate occupies said second position but to be rendered active when the plate goes to the first position as in response to stoppage in material flow through the conduit, and fluid-cylinder means linked with said shaft and organized to retard detector plate movement from said second to said first position thereby requiring that the aforesaid stoppage in material flow persist for a predetermined time before activation of said alarm means can be effected, said fluid-cylinder means permitting detector plate movement from said first to said second position without substantial retardation.

2,654,880
MOUNTING MEANS FOR TELEVISION PICTURE TUBES
Arthur Eisenkramer, Westbury, N. Y., assignor to Emerson Radio and Phonograph Corporation, New York, N. Y., a corporation of New York
Application July 2, 1951, Serial No. 234,720
4 Claims. (Cl. 340—367)



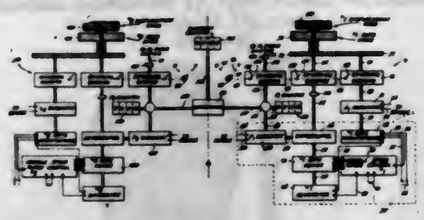
1. In a device for mounting a rectangular metal shell cathode ray tube on a television receiver chassis, the combination comprising a pair of brackets of electrical insulating material fixed to the chassis at the upper corner of the front wall thereof, said brackets having an upper surface shaped to conform to the forward portion of the metallic shell of the cathode ray tube and having an upwardly and rearwardly extending lip shaped to conform to a portion of the lip of the cathode ray tube and supporting the forward edge of the cathode ray tube, a pair of tube clamps resting upon the upper corners of the forward edge of the cathode ray tube, a pair of insulators one fastened to each of said clamps and a preformed rod extending through said insulators and fastened at its ends to the chassis to exert pressure on said insulators and said clamps to thereby clamp the cathode ray tube against said brackets.

2,654,881
ECHO RANGING SYSTEM
La Verne R. Philpott, Washington, D. C.
Application February 20, 1946, Serial No. 649,100
1 Claim. (Cl. 343—5)
(Granted under Title 35, U. S. Code (1952), sec. 266)



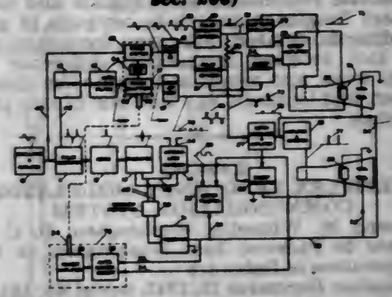
In a radar system which includes a pulse transmitter, a pulse receiver, an antenna, a switch device for coupling said pulse transmitter and receiver to said antenna, the improvement which comprises a pulse delay device, operative to provide a pulse delay at least equal to one-half the radiated pulse duration upon one way travel of energy through said delay device, connected between the pulse transmitter and the switch device.

2,654,882
AIRCRAFT RADIO APPARATUS
William K. Ergen, Indianapolis, Ind., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 15, 1945, Serial No. 622,461
22 Claims. (Cl. 343—7)



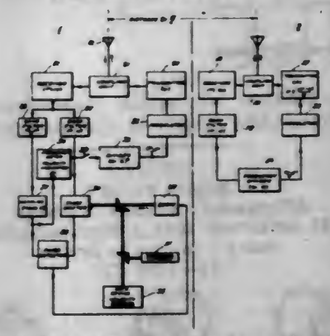
1. Means for responding to the rate and magnitude of the rotation of a shaft comprising, in combination: said shaft; means for driving said shaft at a variable rate; manually adjustable means for varying said rate in proportion to the extent of adjustment thereof; variable resistors operated by said shaft and said manual means; and means connecting said resistors to form adjacent arms of an electric bridge.

2,654,883
RADIO OBJECT LOCATING SYSTEM
Donald F. McAvoy, Belmar, N. J.
Application April 20, 1942, Serial No. 483,711
5 Claims. (Cl. 343—7.3)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A radio object locating system comprising an oscillator, a harmonic generator connected to and excited by said oscillator, first and second mechanically interconnected phase shifters for determining the range of a moving object producing an echo, said first phase shifter being connected to said oscillator and said second phase shifter being connected to said harmonic generator, a receiver, first and second parallel channels connected to said receiver, a circuit connected between said second phase shifter and said two parallel channels, said circuit generating first and second time discriminating pulses and impressing said first pulse on said first channel and said second pulse on said second channel in time relationship making said first pulse leading and said second pulse lagging said echo when the settings of said phase shifters correspond to the range of said object whereby any shift in phase of said echo with respect to said first and second pulses increases the conductivity of one channel and decreases the conductivity of the other channel.

2,654,884
RADIO DISTANCE MEASURING SYSTEM
Winslow Palmer, West Hempstead, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application October 21, 1947, Serial No. 781,093
9 Claims. (Cl. 343—9)

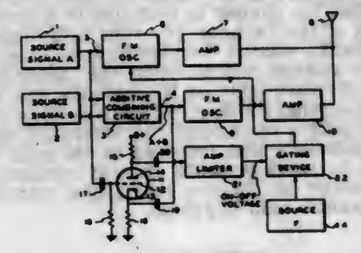


1. Distance measuring equipment adapted to indicate the distance between two locations comprising means at a first location to transmit a first continuous wave signal, means at a second location to transmit a second continuous wave signal of slightly different frequency, means at said second location to receive both signals, means responsive to said receiving means to obtain a

beat frequency between said signals, means adapted to transmit said beat frequency as a modulation, means at said first location to receive said first and second continuous wave signals and said modulation, means responsive to said last named receiving means to mix said first and second continuous wave signals and obtain the beat frequency, means to compare in phase said directly derived difference frequency wave with said received modulation difference frequency wave, and means to indicate the distance between said locations as a function of said phase difference.

2,654,885
MULTIPLEX FREQUENCY MODULATION COMMUNICATION SYSTEM
Raymond M. Wilmotte, Washington, D. C., assignor to Padevco, Inc., Washington, D. C., a corporation of Delaware
Application December 19, 1949, Serial No. 133,872
18 Claims. (Cl. 343—200)

1. A communication system, comprising, a first frequency modulation transmitter for continuously transmitting a first signal, a second co-channel frequency modulation transmitter for continuously transmitting a second signal, means connected with one of said transmitters for transmitting a monitoring signal only while said first

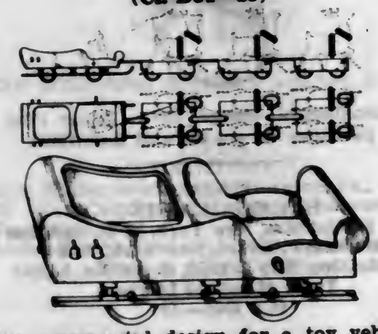


signal is greater in amplitude than said second signal, and means responsive to said monitoring signal for separately detecting said first and second signals each without interference from the other.

DESIGNS

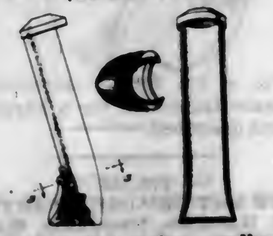
OCTOBER 6, 1953

170,516
TOY VEHICLE
Morris Barry, Lakewood, N. J.
Application June 5, 1952, Serial No. 20,056
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a toy vehicle, as shown and described.

170,517
COLLAPSIBLE TUBE STAND
James Bateman, Kearny, N. J.
Application May 6, 1953, Serial No. 24,869
Term of patent 14 years
(Cl. D4—3)



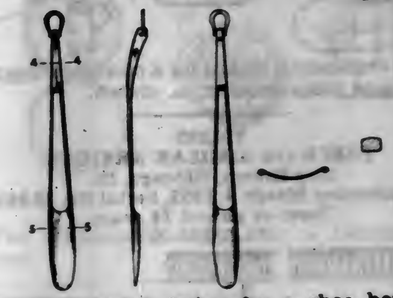
The ornamental design for a collapsible tube stand, as shown.

170,518
COMBINED EAR ORNAMENT AND HAIR ORNAMENT
Siegfried F. Behr, Flushing, N. Y.
Application September 17, 1952, Serial No. 21,509
Term of patent 3½ years
(Cl. D45—9)



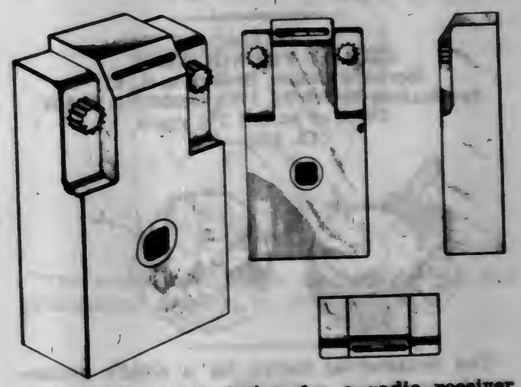
The ornamental design for a combined ear ornament and hair ornament, as shown.

170,519
SHOEHORN
Gerard Beroset, Toledo, Ohio
Application April 27, 1953, Serial No. 24,706
Term of patent 14 years
(Cl. D86—10)



The ornamental design for a shoe horn, as shown.

170,520
RADIO RECEIVER CASING
Louis Boji, Wadena, Iowa, and Paul J. Oslac, Chicago, Ill., assignors to McGregor Electronic Industries, Inc., McGregor, Iowa, a corporation of Delaware
Application January 22, 1953, Serial No. 23,261
Term of patent 3½ years
(Cl. D56—4)



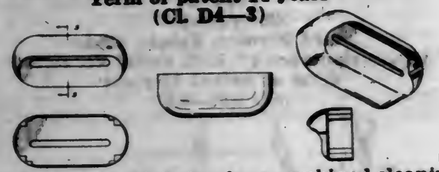
The ornamental design for a radio receiver casing, substantially as shown and described.

170,521
PIGGY BANK
Albert N. Brooks, Chicago, Ill.
Application April 1, 1952, Serial No. 19,151
Term of patent 7 years
(Cl. D34—11)



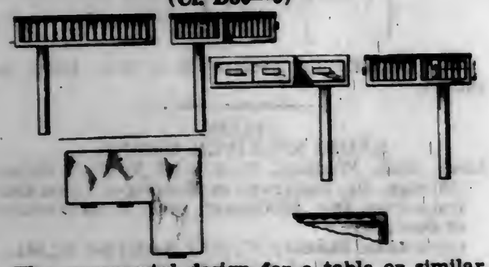
The ornamental design for a piggy bank, as shown.

170,522
COMBINED CLEANING TISSUE AND LAMP HOUSING
Harold D. Brown, Gridley, Kans.
Application May 25, 1953, Serial No. 25,185
Term of patent 14 years
(Cl. D4—3)



The ornamental design for a combined cleaning tissue and lamp housing, as shown.

170,523
TABLE OR SIMILAR ARTICLE
Roy Brown, Chicago, Ill.
Application March 9, 1953, Serial No. 23,963
Term of patent 14 years
(Cl. D80—9)



The ornamental design for a table or similar article, as shown.

170,524
CHILD'S PHONOGRAPH
Bernard Cohen, Brooklyn, N. Y.
Application March 26, 1953, Serial No. 24,208
Term of patent 3½ years
(Cl. D56—4)



The ornamental design for a child's phonograph, as shown.

170,525
CUFF LINK OR SIMILAR ARTICLE
Philip Colmar, New York, N. Y., assignor to George Jacobi and David Jacobi, doing business as Premier Gem Company, New York, N. Y.
Application March 25, 1952, Serial No. 19,048
Term of patent 14 years
(Cl. D17—7)



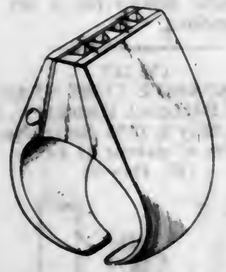
The ornamental design for a cuff link or similar article, substantially as shown and described.

170,526
FINGER RING FOR HOLDING PERFUME
Christy M. Del Mas, New York, N. Y., assignor to Michael P. Grace, New York, N. Y.
Application May 4, 1953, Serial No. 24,831
Term of patent 14 years
(Cl. D45—10)



The ornamental design for a finger ring for holding perfume, as shown and described.

170,527
HARMONICA RING
Christy M. Del Mas, New York, N. Y., assignor to Michael P. Grace, New York, N. Y.
Application May 4, 1953, Serial No. 24,834
Term of patent 14 years
(Cl. D45—10)



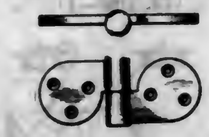
The ornamental design for a harmonica ring, as shown and described.

170,528
PLACE MAT OR SIMILAR ARTICLE
Kenneth C. Hamilton, Milwaukee, Wis., assignor to Milwaukee Lace Paper Company, Milwaukee, Wis., a corporation of Wisconsin
Application July 13, 1953, Serial No. 25,901
Term of patent 14 years
(Cl. D59—2)



The ornamental design for a place mat or similar article, substantially as shown and described.

170,529
HINGE
Emil Hämmerli, Toronto, Ontario, Canada
Application October 1, 1951, Serial No. 16,798
In Canada June 26, 1951
Term of patent 14 years
(Cl. D10—9)



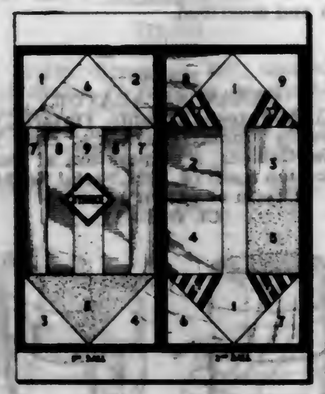
The ornamental design for a hinge, as shown.

170,530
LAVATORY
James M. Hendrickson, Kittanning, Pa., assignor to Eljer Co., Ford City, Pa., a corporation of Pennsylvania
Application November 13, 1952, Serial No. 22,272
Term of patent 14 years
(Cl. D4—3)



The ornamental design for a lavatory, as shown.

170,531
GAME BOARD
August J. Hennig and William L. Waechter, Chicago, Ill.
Application April 2, 1953, Serial No. 24,322
Term of patent 14 years
(Cl. D34—5)



The ornamental design for a game board, as shown and described.

170,532
HANDBAG
Julius J. Hemmer, Union, N. J.
Application March 2, 1953, Serial No. 23,847
Term of patent 7 years
(Cl. D87—3)



The ornamental design for a handbag, as shown.

170,533
HOLDER FOR FIRE EXTINGUISHER GRENADE
Cadwell C. Irwin, Littleton, Colo., assignor to Red Comet, Incorporated, Littleton, Colo., a corporation of Colorado
Application January 19, 1953, Serial No. 23,188
Term of patent 14 years
(Cl. D16—2)



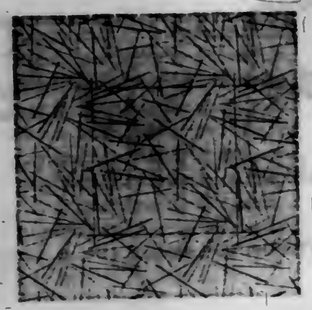
The ornamental design for a holder for fire extinguisher grenade, as shown.

170,534
KNIFE SHARPENER
Arthur Eugene Johnson and Irene Walls Johnson, Los Angeles, Calif.
Application January 9, 1953, Serial No. 23,091
Term of patent 14 years
(Cl. D37—1)



The ornamental design for a knife sharpener, as shown.

170,535
HARD SURFACE FLOOR COVERING OR SIMILAR ARTICLE
George W. Johnson, San Francisco, Calif., assignor to Pabco Products Inc., San Francisco, Calif., a corporation of Delaware
Application April 28, 1953, Serial No. 24,729
Term of patent 14 years
(Cl. D92—17)



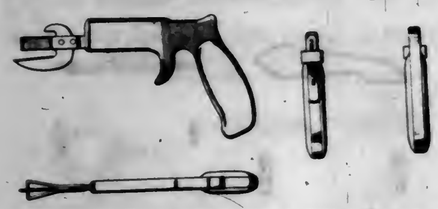
The ornamental design for a hard surface floor covering or similar article, substantially as shown and described.

170,536
CIGAR LIGHTER OR SIMILAR ARTICLE
Frederick Kaupmann, Brooklyn, N. Y., assignor to Ronson Art Metal Works, Inc., Newark, N. J., a corporation of New Jersey
Application March 13, 1953, Serial No. 24,019
Term of patent 14 years
(Cl. D48—27)



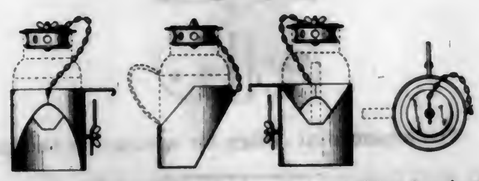
The ornamental design for a cigar lighter or similar article, substantially as shown.

170,537
COMBINED CAN AND BOTTLE OPENER
Jack H. Lanning, Washington, D. C.
Application March 9, 1953, Serial No. 23,951
Term of patent 14 years
(Cl. D22—2)



The ornamental design for a combined can and bottle opener, as shown.

170,538
COMBINED URINAL HOLDER AND DEODORANT CAP
Blanton D. Love, Houston, Tex., assignor to Hazel H. Crosby, Houston, Tex.
Application December 24, 1952, Serial No. 22,865
Term of patent 14 years
(Cl. D83—1)



The ornamental design for a combined urinal holder and deodorant cap, substantially as shown and described.

170,539
BALL-POINT PEN
Charles K. Lovejoy, Atlanta, Ga., assignor to Scripto, Inc., Atlanta, Ga., a corporation of Georgia
Application August 19, 1952, Serial No. 21,105
Term of patent 14 years
(Cl. D74—17)



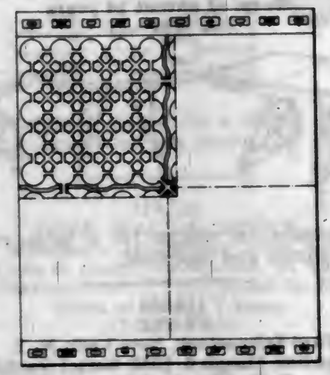
The ornamental design for a ball point pen, as shown and described.

170,540
CREAM SEPARATOR
Lawrie G. McIntosh, Toronto, Ontario, Canada, assignor to Massey-Harris Co. Ltd., Toronto, Ontario, Canada, a corporation of Canada
Application April 14, 1953, Serial No. 24,488
Term of patent 14 years
(Cl. D23—1)



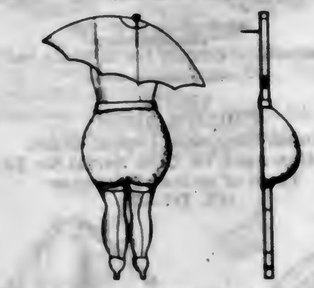
The ornamental design for a cream separator, substantially as shown.

170,541
GAME BOARD
Ralph F. Miles, Pasadena, Calif.
Application September 11, 1952, Serial No. 21,412
Term of patent 3½ years
(Cl. D34—5)



The ornamental design for a game board, as shown and described.

170,542
PINCUSHION
Arthur T. Moeglich, Jackson Heights, N. Y.
Application April 24, 1953, Serial No. 24,658
Term of patent 14 years
(Cl. D3—19)



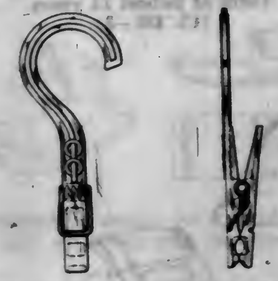
The ornamental design for a pincushion, as shown and described.

170,543
BOOT
Otis G. Murty, Riverdale, Md., assignor to the United States of America as represented by the Secretary of the Army
Application April 3, 1953, Serial No. 24,334
Term of patent 14 years
(Cl. D7—4)
(Granted under Title 35, U. S. Code (1952), sec. 266)



The ornamental design for a boot, substantially as shown and described.

170,544
COMBINED CLASP AND HOOK
George S. Nalle, Jr., Austin, Tex.
Application November 26, 1951, Serial No. 17,523
Term of patent 14 years
(Cl. D80—8)



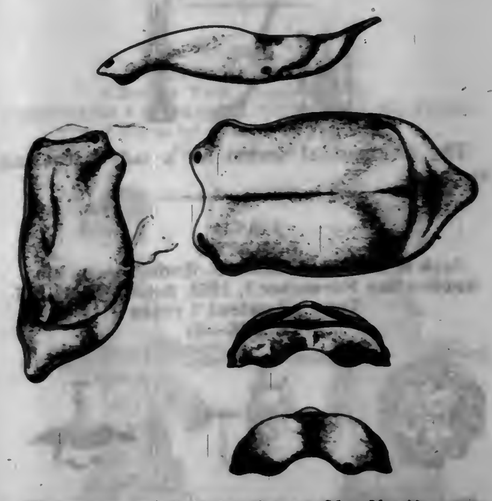
The ornamental design for a combined clasp and hook, as shown and described.

170,545
BASE FOR A PORTABLE MICROPHONE OR THE LIKE
Maurice M. Palo, Conneaut, Ohio
Application October 23, 1952, Serial No. 21,963
Term of patent 7 years
(Cl. D26—14)



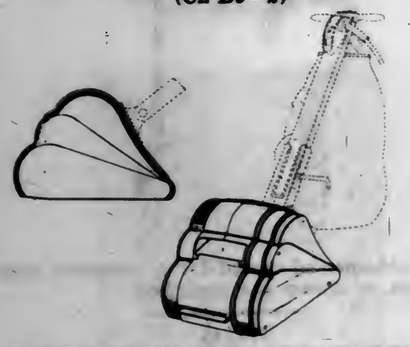
The ornamental design for a base for a portable microphone or the like, as shown and described.

170,546
SELF-ADJUSTING PERSONAL PROTECTIVE SHIELD
John L. Paul, Los Angeles, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application February 9, 1953, Serial No. 23,491
Term of patent 14 years
(Cl. D3—26)



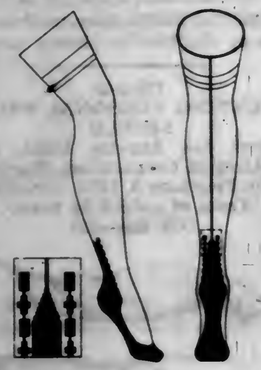
The ornamental design for a self-adjusting personal protective shield, as shown and described.

170,547
SANDING MACHINE
William L. Petersen, Muskegon, Mich., assignor to Clarke Sanding Machine Company, Muskegon, Mich., a corporation of Michigan
Application May 27, 1953, Serial No. 25,209
Term of patent 14 years
(Cl. D9—2)



The ornamental design for a sanding machine, as shown and described.

170,548
LADY'S STOCKING
Melvin A. Rickert, Lambertville, N. J., assignor to Amwell Full Fashioned Hosiery Company, Inc., Lambertville, N. J.
Application January 7, 1953, Serial No. 23,052
Term of patent 14 years
(Cl. D47—7)



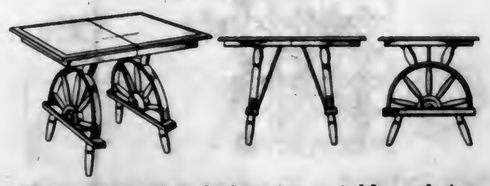
The ornamental design for a lady's stocking, as shown.

170,549
EARRING
Jack H. Rude and Mary E. Rude, Steele, Mo.
Application November 7, 1952, Serial No. 22,177
Term of patent 7 years
(Cl. D45—9)



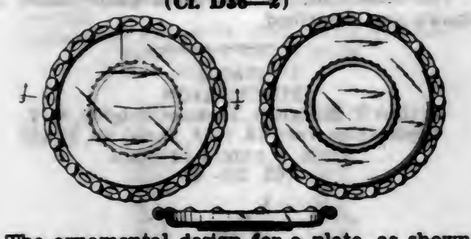
The ornamental design for an earring, as shown.

170,550
TABLE
Oscar L. Saenz, Los Angeles, Calif., assignor to Vinewood Products, Inc., Los Angeles, Calif., a corporation of California
Application June 8, 1953, Serial No. 25,382
Term of patent 14 years
(Cl. D33—14)



The ornamental design for a table, substantially as shown and described.

170,551
PLATE
Paul Schneeloch, New York, N. Y.
Application March 2, 1953, Serial No. 23,836
Term of patent 14 years
(Cl. D36—2)



The ornamental design for a plate, as shown.

170,552
CHILD'S SHOE
Rubin Sherman, Lowell, Mass.
Application April 10, 1953, Serial No. 24,447
Term of patent 3½ years
(Cl. D7—7)



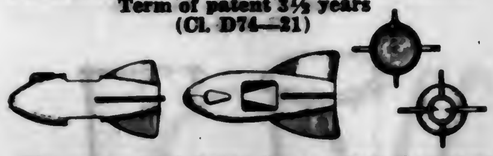
The ornamental design for a child's shoe, as shown.

170,553
LAMP BASE
Eli Silvestri, Pittsburgh, Pa.
Application March 19, 1953, Serial No. 24,103
Term of patent 7 years
(Cl. D48—20)



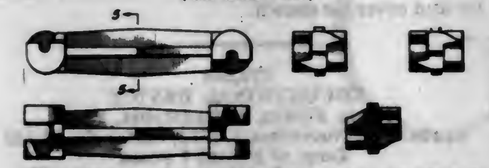
The ornamental design for a lamp base, as shown and described.

170,554
CRAYON SHARPENER OR THE LIKE
Joseph G. Squarcio, Denver, Colo.
Application December 31, 1952, Serial No. 22,940
Term of patent 3½ years
(Cl. D74—21)



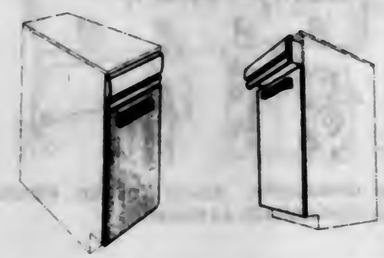
The ornamental design for a crayon sharpener or the like, substantially as shown.

170,555
WIRE SPACING DEVICE
John C. Steadman, Jacobsburg, Ohio, assignor to Lyda D. Curtis, McMechen, W. Va.
Application June 22, 1953, Serial No. 25,606
Term of patent 7 years
(Cl. D26—10)



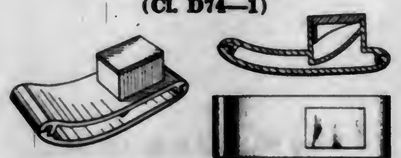
The ornamental design for a wire spacing device, as shown.

170,556
CABINET
Florence J. Sterling, Chicago, Ill., assignor to Sterling-Freeland Industries Inc., Chicago, Ill., a corporation of Illinois
Application June 19, 1952, Serial No. 20,255
Term of patent 3½ years
(Cl. D32—19)



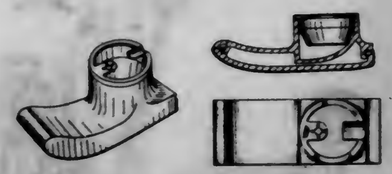
The ornamental design for a cabinet, as shown and described.

170,557
COMBINED BLOTTER AND STAMP BOX
Harold A. Swan, Coronado, Calif.
Application January 7, 1953, Serial No. 23,046
Term of patent 14 years
(Cl. D74—1)



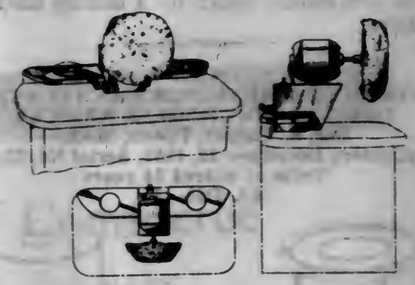
The ornamental design for a combined blotter and stamp box, as shown and described.

170,558
COMBINED BLOTTER AND ASH TRAY
Harold A. Swan, Coronado, Calif.
Application January 7, 1953, Serial No. 23,047
Term of patent 14 years
(Cl. D74—1)



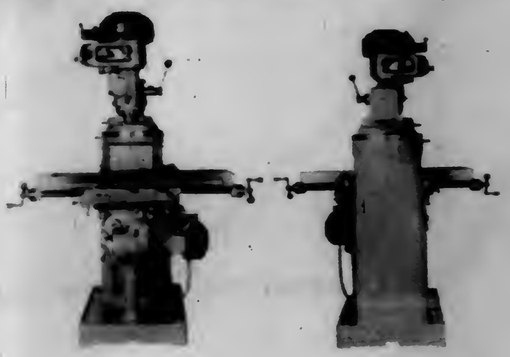
The ornamental design for a combined blotter and ash tray, as shown and described.

170,559
POLISHING MACHINE
James Lee Thompson, North Little Rock, Ark.
Application October 14, 1952, Serial No. 21,824
Term of patent 14 years
(Cl. D9—2)

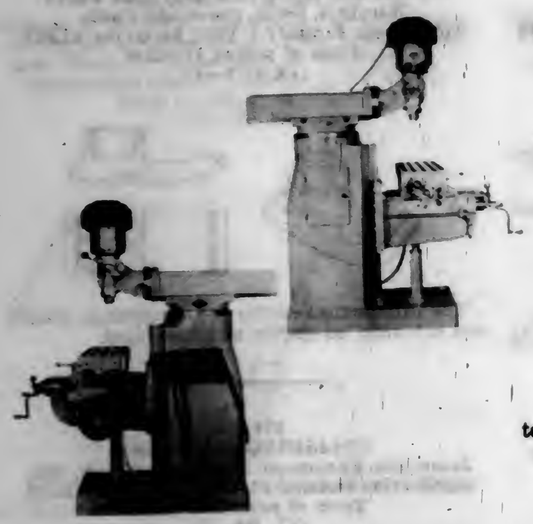


The ornamental design for a polishing machine, as shown and described.

170,560
MILLING MACHINE
Charles Tree, Racine, Wis.
Application February 14, 1952, Serial No. 18,518
Term of patent 14 years
(Cl. D54—14)

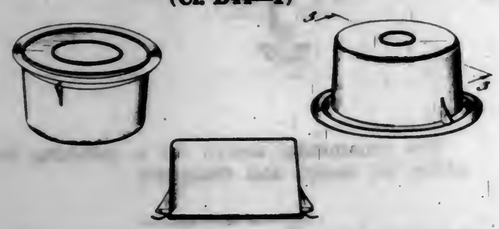


170,560—Continued



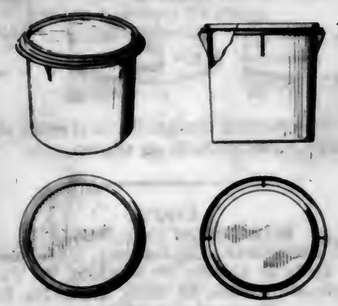
The ornamental design for a milling machine, as shown.

170,561
COMBINED CAKEHOLDER AND COVER THEREFOR OR SIMILAR ARTICLE
Earl S. Tupper, Upton, Mass.
Application December 23, 1952, Serial No. 22,826
Term of patent 14 years
(Cl. D44—1)



The ornamental design for a combined cakeholder and cover therefor or similar article, as shown.

170,562
COMBINED CANISTER AND COVER
Earl S. Tupper, Upton, Mass.
Application February 5, 1953, Serial No. 23,452
Term of patent 14 years
(Cl. D44—1)



The ornamental design for a combined canister and cover, as shown.

170,563
EDUCATIONAL DEVICE
Sylvia Zipkin, Philadelphia, Pa.
Application November 5, 1952, Serial No. 22,223
Term of patent 7 years
(Cl. D25—1)



The ornamental design for an educational device, substantially as shown.

October 13, 1953 Volume 675 Number 2

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce
SINCLAIR WEEKS, *Secretary*

U. S. Patent Office
ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business September 25, 1953

Total number of patent applications awaiting action, 102,944. Date of oldest new application, December 3, 1952; date of oldest amended application, December 2, 1952.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) BLUM, A. (Acting)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	1-12-53	1-13-53	1305
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	12-30-52	12-30-52	1236
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	1-27-53	1-27-53	1863
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	1-7-53	1-5-53	1538
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	1-14-53	1-14-53	997
6. SURLE, H., Carbon Chemistry (part)	12-3-52	12-4-52	2801
7. GONSALVES, J. E., Optics; Photography (part)	1-7-53	1-6-53	1728
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	1-21-53	1-22-53	1546
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	1-8-53	1-7-53	1219
10. REYNOLDS, E. R. (NEFF, P. R., Acting); Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	1-30-53	1-29-53	1297
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	1-13-53	1-12-53	1211
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	1-5-53	1-2-53	1246
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	12-23-52	12-22-52	1252
14. MANIAN, J. C., Fluid Pressure Brake; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	1-23-53	1-14-53	1450
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	12-22-52	12-20-52	1707
16. LOVEWELL, N. N., Television; Telephony; Recorders	12-13-52	12-16-52	1797
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters: Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	1-5-53	1-6-53	1516
18. KURZ, J. A., Power Plants; Speed Responsive Devices	1-23-53	1-5-53	735
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	12-12-52	12-12-52	1162
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	1-26-53	1-26-53	1264
21. MADER, R. C., Textiles	12-31-52	12-29-52	1386
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	1-12-53	1-12-53	1040
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	12-26-52	12-9-52	998
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machine; Textiles, Ironing or Smoothing	3-2-53	2-24-53	1112
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	12-18-52	12-16-52	1380
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	1-26-53	1-26-53	1963
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	1-12-53	1-8-53	1265
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	1-21-53	1-21-53	1179
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	12-26-52	1-5-53	1049
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	3-11-53	3-11-53	1382
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	12-23-52	12-23-52	2532
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	1-26-53	1-30-53	1304
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	12-23-52	12-22-52	1906
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	12-24-52	12-18-52	1281
35. BROMLEY, E. D., Dispensing; Filling and Closing Portable Receptacles	2-9-53	2-4-53	1243
36. McFADYEN, A. D., Measuring and Testing	1-12-53	1-5-53	1135
37. LEVY, M. L., Electricity-Switches, Welding, Heating	1-29-53	1-30-53	1761
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	1-21-53	1-26-53	1546
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handing (part)	1-19-53	2-18-53	1577
40. DRUMMOND, E. J., Receptacles (part); Packages	4-6-53	4-6-53	911
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	1-14-53	1-15-53	1650

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors.	12-26-52	12-27-52	2195
43. KNIGHT, W. G. (Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	12-24-52	12-23-52	1883
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	1-19-53	1-12-53	1342
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	12-8-52	12-12-52	1177
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	1-6-53	1-2-53	1640
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	12-23-52	12-24-52	2218
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	1-5-53	1-8-53	1453
50. BENGEL, W. G., Synthetic Resins; Rubber	3-23-53	3-23-53	1736
51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics.	1-16-53	1-16-53	1669
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	2-5-53	2-2-53	1985
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	1-29-53	1-29-53	1029
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	1-6-53	1-2-53	1854
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	1-22-53	1-7-53	1009
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	2-19-53	2-5-53	1328
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	1-12-53	1-21-53	1790
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	1-5-53	1-5-53	1419
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	1-21-53	1-21-53	1412
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	2-18-53	2-16-53	925
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.	2-3-53	1-30-53	1173
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	12-23 52	12-30-52	2013
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	1-2-53	1-5-53	1742
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	1-16-53	1-19-53	842
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	2-2-53	1-29-53	1610
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	2-3-53	1-27-53	1531
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording	1-8-53	1-8-53	1779
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	12-4-52	12-2-52	3671
DESIGNS: A—BREHM, G. L., Industrial Arts	4-28-53	5-22-53	1113
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	5-12-53	5-21-53	887

Number of new applications received week ending September 4, 1953

PATENTS 1,420 DESIGNS 92 REISSUES 4 TOTAL 1,516

Total number of trade-mark applications awaiting action (including renewals and republications), 10,814.
Date of oldest new application, April 27, 1953; date of oldest amended application, April 27, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	4-26-53	4-28-53	2692
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	4-27-53	4-27-53	2792
Renewals (All Classes)	7-24-53	8-26-53	316
Republications (All Classes)	7-21-53	9-1-53	221
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	5-14-53	5-11-53	2383
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	5-1-53	5-4-53	2410

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Aberfoyle Manufacturing Company, assignee: *See*—
Landenberger, J. W., & Co. Inc.

Advertising Promotion Products, New York, N. Y. Leather key cases, coin purses, card cases, etc. Serial No. 641,116, Oct. 13. Class 3.

Aerovox Corporation, New Bedford, Mass. Printed electric circuit assemblies. Serial No. 628,604, Oct. 13. Class 21.

Airmaid Hosiery Mills, Dallas, Tex. Women's hosiery. Serial No. 634,512, Oct. 13. Class 39.

Airmaid Hosiery Mills, Dallas, Tex. Women's hosiery. Serial No. 639,976, Oct. 13. Class 39.

Alfred Herbert Limited, Foleshill, Coventry, England. Lathes, milling machines, and drilling machines. Serial No. 636,077, Oct. 13. Class 23.

Allied Chemical & Dye Corporation, New York, N. Y. Nitrogen-containing solution, suitable for use as fertilizer. Serial No. 635,991, Oct. 13. Class 10.

American Association of Textile Chemists and Colorists, Lowell, Mass. Laboratory testing apparatus. Serial No. 635,803, Oct. 13. Class 26.

American Farm Bureau Federation, Chicago, Ill. Periodicals. Serial No. 640,771, Oct. 13. Class 38.

American Home Products Corporation, New York, N. Y., doing business as Wyeth Laboratories, Division of American Home Products Corporation, Philadelphia, Pa. Intestinal parasiticide. Serial No. 644,209, Oct. 13. Class 18.

American Instrument Company, Inc., Silver Spring, Md. Temperature and humidity-controlled cabinets. Serial No. 633,526, Oct. 13. Class 34.

American Woolen Company, New York, N. Y. Textile fabric. Serial No. 634,566, Oct. 13. Class 42.

Armour and Company, Chicago, Ill. Veterinary adrenocorticotropic hormone compositions. Serial No. 645,528, Oct. 13. Class 18.

Atlantis, Inc., New York, N. Y. Illustrated magazine. Serial No. 644,534, Oct. 13. Class 38.

Automotive Materials Corporation, Detroit, Mich. Vehicle body textile trimming fabrics. Serial No. 641,424, Oct. 13. Class 42.

Ayerst, McKenna & Harrison Limited, New York, N. Y. Inhaler. Serial No. 646,843, Oct. 13. Class 44.

Bag Service, Inc., Decatur, Ind. Textile bags. Serial No. 635,021, Oct. 13. Class 2.

Ballston-Stillwater Knitting Company, Inc., Ballston Spa, N. Y. Men's hosiery and more particularly socks. Serial No. 640,426, Oct. 13. Class 39.

Ballston-Stillwater Knitting Company, Inc., Ballston Spa, N. Y. Men's hosiery. Serial No. 642,061, Oct. 13. Class 39.

Balter, Alexander J., Pittsburgh, Pa. Textile rugs. Serial No. 647,388, Oct. 13. Class 42.

Barbet Mills, Inc., Gastonia, N. C. Knitted fabrics. Serial No. 647,389, Oct. 13. Class 42.

Bausch & Lomb Optical Company, Rochester, N. Y. Goggles and parts thereof. Serial No. 644,276, Oct. 13. Class 26.

Beacon Manufacturing Company, Swannanoa, N. C. Blankets. Serial No. 643,754, Oct. 13. Class 42.

Bear Brand Hosiery Co., Chicago, Ill. Men's hosiery. Serial No. 629,146, Oct. 13. Class 39.

Beatty, Clarence A., doing business under the name The Chicken Pickers, San Francisco, Calif. Prepared meals. Serial No. 648,720, Oct. 13. Class 46.

Beautergent Products: *See*—
Dupuy, Charles F. J.

Beaver Home Products Company, Inc., Camden, N. J. Soap. Serial No. 626,364, Oct. 13. Class 52.

Bernard Edward Company, Chicago, Ill. Supplies for pets—namely, bird cages, etc. Serial No. 631,982, Oct. 13. Class 3.

Better Brushes, Incorporated, Palmer, Mass. Metal cleaner and polish; silver polish; floor wax, etc. Serial No. 639,410, Oct. 13. Class 4.

Beverly Vogue Company, Los Angeles, Calif. Garter panties. Serial No. 633,297, Oct. 13. Class 39.

Bly, Simon, Jr., New York, N. Y. Dentifrice-containing capsules. Serial No. 642,865, Oct. 13. Class 51.

Bon Bon Chemical Co.: *See*—
McQuilkin, James A.

Brand, William, and Co. Inc., The, Willimantic, Conn. Electrical insulations. Serial No. 644,725, Oct. 13. Class 21.

Brand, William, and Co. Inc., The, Willimantic, Conn. Insulation—namely, plastic insulating tubing to cover insulating material intended for electrical insulation. Serial Nos. 644,726–7, Oct. 13. Class 21.

Brand, William, and Co. Inc., The, Willimantic, Conn. Electrical insulations. Serial Nos. 644,728–9, Oct. 13. Class 21.

Brand, William, and Co. Inc., The, Willimantic, Conn. Insulating materials for electrical insulation. Serial No. 644,730, Oct. 13. Class 21.

Brevitt Shoes Limited, Leicester, England. Boots, shoes, and slippers. Serial No. 637,910, Oct. 13. Class 39.

Brooks Oil Company, The, Cleveland, Ohio. Petroleum base lubricant, surface conditioner and coating oil. Serial No. 645,388, Oct. 13. Class 15.

Brownie Knitting Mills, New York, N. Y. Knitted sweaters. Serial No. 643,073, Oct. 13. Class 39.

Buckeye Soda Company, The, Painesville, Ohio. Controlled suds washing compound. Serial No. 626,853, Oct. 13. Class 52.

Burndy Engineering Company, Inc., New York, N. Y. Splice for electrical conductors. Serial No. 612,584, Oct. 13. Class 21.

Carlisle, R. L., Chemical & Manufacturing Company Inc., Brooklyn, N. Y. Chemical soil conditioner. Serial No. 635,996, Oct. 13. Class 10.

Chadbourn Hosiery Mills, Incorporated, Charlotte, N. C. Thrown yarn. Serial No. 645,390, Oct. 13. Class 43.

Chain Belt Company, Milwaukee, Wis. Mixing and agitating apparatus for concrete, mortar, chocolate, etc. Serial No. 615,926, Oct. 13. Class 23.

Cherry-Levis Food Products Company: *See*—
Levis, Adolph.

Chicken Pickers, The: *See*—
Beatty, Clarence A.

Chiksan Company, Houston, Tex. Tool joint compound—namely, a mixture of powdered lead, powdered graphite, lubricating oil, etc. Serial No. 631,468, Oct. 13. Class 15.

Childcraft Equipment Company, New York, N. Y. Playground equipment, sporting goods, card games, etc. Serial No. 632,153, Oct. 13. Class 22.

Cleveland Graphite Bronze Company, The, Cleveland, Ohio. Automotive vehicle chassis parts. Serial No. 635,062, Oct. 13. Class 19.

Collegiate Manufacturing Company, Inc., Ames, Iowa. Stuffed dog featuring school letters and initials, etc. Serial No. 605,400, Oct. 13. Class 22.

Continental Mills, Inc., Philadelphia, Pa. Knitted and woven fabrics. Serial No. 630,124, Oct. 13. Class 42.

Coventry Ware, Inc., Barberton, Ohio. Swimle sticks. Serial No. 637,702, Oct. 13. Class 23.

Cris-Krisp Company, Oswego, N. Y. Lettuce. Serial No. 635,406, Oct. 13. Class 46.

Dell Publishing Company, Inc., New York, N. Y. Magazine. Serial No. 643,897, Oct. 13. Class 38.

Douglas, Newhall, Hoboken, N. J. Photographic films. Serial No. 635,351, Oct. 13. Class 26.

Dupli-Color Products Co., Inc., Chicago, Ill. Protective coating. Serial No. 634,891, Oct. 13. Class 16.

Dupuy, Charles F. J., doing business under the trade-name Beautergent Products, Allendale, N. J. Sponge containing a detergent. Serial No. 618,915, Oct. 15. Class 52.

Electric & Musical Industries Limited, Hayes, England. Grooved phonograph records and record blanks. Serial No. 641,443, Oct. 13. Class 36.

Electro-Lab Processes, Inc., Cincinnati, Ohio. Electroplating new and re-electroplating used tips of electrically heated welding and soldering devices. Serial No. 623,505, Oct. 13. Class 106.

European & Overseas Trading Company Gesellschaft mit beschrinkter Haftung, Hamburg, Germany. Peat moss for horticultural use as fertiliser. Serial No. 645,703, Oct. 13. Class 10.

Evangelical Methodist Church, The, Altoona, Pa. Religious publications. Serial No. 641,179, Oct. 13. Class 38.

Everett, S. & R. J., Co. Ltd., Surrey, England. Hypodermic needles, hypodermic tubing, and dental broaches. Serial No. 591,920, Oct. 13. Class 44.

Fabergé, Inc., New York, N. Y. Soap. Serial No. 640,153, Oct. 13. Class 52.

Fabric Chemicals Company, Jersey City, N. J. Water repellent finishing agent. Serial No. 645,237, Oct. 13. Class 6.

Fansteel Metallurgical Corporation, North Chicago, Ill. Tantalum, tungsten, molybdenum and columbium, etc. Serial No. 634,037, Oct. 13. Class 14.

Fulton Bag and Cotton Mills, Atlanta, Ga. Composition for applying to cotton and burlap bags to render them rodent repellent. Serial No. 631,796, Oct. 13. Class 6.

General Latex and Chemical Corporation, Cambridge, Mass. Natural or synthetic latex compound. Serial No. 644,550, Oct. 13. Class 1.

Gibson, G. M., Corporation, Bellevue, Iowa. Ironing machines, clothes washing machines, and clothes driers. Serial No. 626,508, Oct. 13. Class 24.

Gillon, John W., doing business under the name Gillon Products, San Mateo, Calif. Stadimeters. Serial No. 642,543, Oct. 13. Class 26.

Gillon Products: *See*—
Gillon, John W.
Glyco Products Co. Inc., Brooklyn, N. Y. Ethylene diamine tetraacetic acid and salts of said acid. Serial No. 637,438, Oct. 13. Class 6.
Hannifin Corporation, Chicago, Ill. Air line filters. Serial No. 633,361, Oct. 13. Class 31.
Heath, L. S., & Sons, Inc., Robinson, Ill. Candy. Serial No. 637,773, Oct. 13. Class 46.
Hiawatha Equipment Company, Manistique, Mich. Animal equipment—namely cages, etc. Serial No. 636,129, Oct. 13. Class 3.
Hollywood Television Service, Inc., North Hollywood, Calif. Motion pictures. Serial No. 637,376, Oct. 13. Class 26.
Horex-Columbus-Werk K.-G. Fritz Kleemann, Bad Homburg, Germany. Motorcycles. Serial No. 636,912, Oct. 13. Class 19.
Hysan Products Company, Chicago, Ill. Toilet bowl sanitizer. Serial No. 639,756, Oct. 13. Class 52.
Infilco Incorporated, Tucson, Ariz. Precision chemical feeders for feeding measured quantities of liquid chemicals, etc. Serial No. 642,655, Oct. 13. Class 26.
Irwin, Neisler & Company, Decatur, Ill. Tablets for the relief of hypertension. Serial No. 644,757, Oct. 13. Class 18.
Johnson & Johnson, New Brunswick, N. J. Filter disks, rolls, and strips. Serial No. 641,381, Oct. 13. Class 31.
Kendall Company, The, Boston, Mass. Children's play nurse uniforms. Serial No. 643,165, Oct. 13. Class 39.
Koebel Diamond Tool Co., Detroit, Mich. Diamond carrying cutting tools and diamond carrying core bits. Serial No. 618,804, Oct. 13. Class 23.
Koodin-Lapow Associates, New York, N. Y. News letter or house organ. Serial No. 642,251, Oct. 13. Class 38.
Landenberger, J. W., & Co. Inc., assignor to Aberfoyle Manufacturing Company, Philadelphia, Pa. Hosiery. Serial No. 638,424, Oct. 13. Class 39.
Leopold Cosmetics: *See*—
Schlesinger, Leopold.
Levis, Adolph, trading as Cherry-Levis Food Products Company, Philadelphia, Pa. Polish sausage and hot sausage. Serial No. 642,481, Oct. 13. Class 46.
Levis, Adolph, trading as Cherry-Levis Food Products Company, Philadelphia, Pa. Lamb tongues. Serial No. 642,920, Oct. 13. Class 46.
Levis, Adolph, trading as Cherry-Levis Food Products Company, Philadelphia, Pa. Hot sausage, pigs feet, pigs knuckles. Serial No. 642,921, Oct. 13. Class 46.
Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. Serial No. 640,068, Oct. 13. Class 18.
Lincoln Engineering Company, St. Louis, Mo. Lubricant injection apparatus. Serial No. 628,767, Oct. 13. Class 23.
Lufkin Rule Company, The, Saginaw, Mich. Tape measures. Serial No. 642,233, Oct. 13. Class 26.
Lyon Distributors: *See*—
Moreines, Lewis.
Malcom, Kenneth, Co., Boston, Mass. Men's topcoats, overcoats, sport coats, etc. Serial No. 645,809, Oct. 13. Class 39.
Manhattan Novelty Corporation, New York, N. Y. Wallets, billfolds, and traveling cases. Serial No. 645,047, Oct. 13. Class 3.
Manufactures de Senones (Vosges) Société à Responsabilité Limitée, Paris, France. Textile fabrics. Serial No. 637,834, Oct. 13. Class 42.
Master Appliance Mfg. Co., Racine, Wis. Blower wheels for use in moving air in various appliances such as hair dryers. Serial No. 641,314, Oct. 13. Class 34.
McKesson & Robbins, Incorporated, New York, N. Y., and Fairfield, Conn. Preparation for the relief of stomach disorders. Serial No. 646,001, Oct. 13. Class 18.
McQuilkin, James A., doing business as Bon Bon Chemical Co., Philadelphia, Pa. Soap. Serial No. 639,486, Oct. 13. Class 52.
Mefco Sales and Service Corp., Glendale, Calif. Hydraulically operated combined load-lowering and weighing attachment for hoists. Serial No. 626,211, Oct. 13. Class 26.
Moreines, Lewis, doing business as Lyon Distributors, Rockaway Beach, N. Y. Ladies' hosiery. Serial No. 635,659, Oct. 13. Class 39.
Naxon Utilities Corporation, Chicago, Ill. Electric wringers, hand-operated wringers, and electric washing machines. Serial No. 645,332, Oct. 13. Class 24.
Newton, Paul D., & Co. Inc., Newark, N. Y. Cosmetics. Serial No. 612,754, Oct. 13. Class 51.
New York Herald Tribune Inc., New York, N. Y. Informational service rendered through the medium of a radio and television program. Serial No. 643,972, Oct. 13. Class 107.
Oakes Consumer Catalogs, Chicago, Ill. Fishing tackle catalogue. Serial No. 643,973, Oct. 13. Class 38.
Oberman Fabrics, Inc., New York, N. Y. Piece goods. Serial No. 647,518, Oct. 13. Class 42.
Oshkosh B'Gosh, Inc., Oshkosh, Wis. Overalls. Serial No. 558,915, Oct. 13. Class 39.
Palms From Florida, Inc., Miami, Fla. Small growing palms. Serial No. 644,251, Oct. 13. Class 1.
Parke, Davis & Company, Detroit, Mich. Medicinal combination. Serial No. 635,429, Oct. 13. Class 18.
Parke, Davis & Company, Detroit, Mich. Chemotherapeutic agent. Serial No. 642,898, Oct. 13. Class 18.
Philipp Brothers Chemicals, Inc., New York, N. Y. Sulfa drugs. Serial No. 634,482, Oct. 13. Class 18.
"Pilotlab," Evans City, Pa. Spices. Serial No. 615,245, Oct. 13. Class 46.
Pinch Frame Body Company, Fresno, Calif. Vehicle body frame. Serial No. 637,326, Oct. 13. Class 19.
Raynal Cycle Company Limited, The, Birmingham, England. Pedal cycles and motor cycles and parts of and fittings therefor. Serial No. 628,716, Oct. 13. Class 19.
Red Giant Oil Company, Council Bluffs, Iowa. Lubricating oils and greases. Serial No. 635,662, Oct. 13. Class 15.
Register and Tribune Company, The, Des Moines, Iowa. Newspaper and magazine feature. Serial No. 644,064, Oct. 13. Class 38.
Reichhold Chemicals, Inc., Detroit, Mich. Synthetic resin or solution thereof used as a base for paints and varnishes, etc. Serial No. 630,150, Oct. 13. Class 16.
Reimann Industries, Inc., Minneapolis, Minn. Nonalcoholic maltless beverages. Serial No. 595,471, Oct. 13. Class 45.
Revlon Products Corporation, New York, N. Y. Pressed powder make-up. Serial No. 642,421, Oct. 13. Class 51.
Richfield Oil Corporation, Los Angeles, Calif. Gasoline. Serial No. 581,900, Oct. 13. Class 15.
Riker Laboratories, Inc., Los Angeles, Calif. Medicinal tablets. Serial No. 640,963, Oct. 13. Class 18.
Rootie Kazootie, Inc., New York, N. Y. Children's dresses. Serial No. 645,834, Oct. 13. Class 39.
Rutgers Coat Co., Inc., New Brunswick, N. J. Boys' coats. Serial No. 594,066, Oct. 13. Class 39.
Sand Knitting Mills Co., Chicago, Ill., assignor to Sand Knitting Mills Corporation, Berlin, Wis. Football, wrestling and basket ball pants and wrestling and skating tights. Serial No. 642,308, Oct. 13. Class 39.
Sand Knitting Mills Corporation, assignee: *See*—
Sand Knitting Mills Co.
Sandpaper Incorporated, Rockland, Mass. Abrasive paper. Serial No. 630,684, Oct. 13. Class 4.
Schenley Laboratories, Inc., New York, N. Y. Oral fat emulsion. Serial No. 636,385, Oct. 13. Class 18.
Schlesinger, Leopold, doing business as Leopold Cosmetics, New York, N. Y. Antiseptic and medicated cosmetic cream. Serial No. 645,735, Oct. 13. Class 18.
Simpson, Wm., Sons & Co., Inc., Philadelphia, Pa. Print cloth. Serial No. 637,336, Oct. 13. Class 42.
Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa, Societa Per Azioni, Milan, Italy. Artificial textile fibres. Serial No. 641,747, Oct. 13. Class 1.
Société à Responsabilité Limitée: Porgès, Sarlat (Dordogne) and Paris, France. Medical and surgical instruments. Serial No. 624,220, Oct. 13. Class 44.
Starline Inc., Harvard, Ill. Farm barn hardware. Serial No. 638,033, Oct. 13. Class 13.
Stattler Mfg. Co., Chicago, Ill. Children's miniature steering wheel and seat for use in an automobile. Serial No. 643,001, Oct. 13. Class 19.
Stevens, J. P., & Co., Inc., New York, N. Y. Sheets and pillow cases. Serial No. 631,325, Oct. 13. Class 42.
Stitzel-Weller Distillery, Louisville, Ky. Whiskies. Serial No. 636,259, Oct. 13. Class 49.
Sunway Fruit Products, Chicago, Ill. Ice milk and ice cream mixes. Serial No. 639,526, Oct. 13. Class 46.
Supplee-Biddle-Steitz Company, Philadelphia, Pa. Catalogues. Serial No. 645,744, Oct. 13. Class 38.
Swan-Finch Oil Corporation, New York, N. Y. Core oils and core binders. Serial No. 642,497, Oct. 13. Class 5.
Tanner, Chas. S., Co., Providence, R. I. Chemical preparation. Serial No. 641,477, Oct. 13. Class 6.
Totem Farms, Edmonds, Wash. Equipment for raising animals, excluding fowl—namely, feeder boxes, etc. Serial No. 637,893, Oct. 13. Class 3.
Triumph Hosiery Mills, Inc., New York, N. Y. Women's hosiery and stockings, opera hose, etc. Serial No. 645,607, Oct. 13. Class 39.
Uhmann, Bernhard, Co. Inc., Long Island City, N. Y. Art needlework picture kits. Serial No. 643,929, Oct. 13. Class 40.
Ultra Chemical Works Inc., Paterson, N. J. Detergents, and ingredients thereof. Serial No. 638,985, Oct. 13. Class 52.
United States Playing Card Company, The, Cincinnati, Ohio. Playing cards. Serial No. 650,657, Oct. 13. Class 22.
United States Rubber Company, New York, N. Y. Textile fabrics. Serial No. 638,884, Oct. 13. Class 42.
Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. Serial No. 645,273, Oct. 13. Class 18.
V. G. Manufacturing Corp., Monrovia, Calif. Spark plugs. Serial No. 620,330, Oct. 13. Class 21.
Viavi Company, The, San Francisco, Calif. Preparation for the relief of functional constipation. Serial No. 645,447, Oct. 13. Class 18.
Viavi Company, The, San Francisco, Calif. Dietary supplement. Serial No. 645,448, Oct. 13. Class 18.
Viavi Company, The, San Francisco and Belmont, Calif. Rectal suppositories; cocoa butter capsules, a preparation for use in massage, etc. Serial No. 647,116, Oct. 13. Class 18.
Virginia Hickory Products Division, Marion Handle Mills, Inc., Marion, Va. Hickory wood disks. Serial No. 644,262, Oct. 13. Class 1.

Waring Products Corporation, New York, N. Y. Electrical disintegrators and mixers. Serial No. 606,582, Oct. 13. Class 21.
Warwick Wax Co. Inc., Long Island City, N. Y. Chemically microcrystalline wax. Serial No. 636,664, Oct. 13. Class 6.
Watson, Ira A., Co., Knoxville, Tenn. Women's hosiery. Serial No. 637,556, Oct. 13. Class 39.
Weller, E. E., Co., Providence, R. I. Shoe buckles. Serial No. 636,394, Oct. 13. Class 40.
Wheel-A-Matic Company of America, Inc., The, Franklin, N. H. Machines for testing caster, camber, toe-in and degree of turning radius of automotive vehicle front wheels. Serial No. 631,834, Oct. 13. Class 26.
Winthrop-Stearns Inc., New York, N. Y. Chemotherapeutic preparation. Serial No. 644,703, Oct. 13. Class 18.
Wyeth Laboratories, Division of American Home Products Corporation: *See*—
American Home Products Corporation.
Zip Abrasive Company, The, Cleveland, Ohio. Lapping or grinding compound, which is a mixture of abrasives. Serial No. 640,061, Oct. 13. Class 4.

LIST OF REGISTRANTS OF TRADE-MARKS

Alberts, Arthur S., New York, N. Y. Grooved phonograph records. 580,941, Oct. 13; Serial No. 620,947, published July 14, 1953. Class 36.
Alfried Krupp von Bohlen und Halbach: *See*—
Fried. Krupp Aktiengesellschaft.
Aluminum Specialty Company, Manitowoc, Wis. Anodized toy aluminum tea sets. 580,976, Oct. 13; Serial No. 630,820, published July 14, 1953. Class 22.
American Anode Inc., to The B. F. Goodrich Company, Akron, Ohio. Surgeon's rubber gloves. 304,533-4, renewed July 11, 1953. O. G. Oct. 13. Class 44.
American Anode Inc., to The B. F. Goodrich Company, Akron, Ohio. Surgeon's rubber gloves. 304,536, renewed July 11, 1953. O. G. Oct. 13. Class 44.
American Anode Inc., to The B. F. Goodrich Company, Akron, Ohio. Rubber toy balloons. 304,651, renewed July 11, 1953. O. G. Oct. 13. Class 22.
American Anode Inc., to The B. F. Goodrich Company, Akron, Ohio. Rubber-toy balloons. 304,652, renewed July 11, 1953. O. G. Oct. 13. Class 22.
American Anode Inc., to The B. F. Goodrich Company, Akron, Ohio. Rubber toy balloons. 304,654, renewed July 11, 1953. O. G. Oct. 13. Class 22.
American Anode Inc., to The B. F. Goodrich Company, Akron, Ohio. Household rubber gloves. 305,121, renewed Aug. 1, 1953. O. G. Oct. 13. Class 39.
American Anode Inc., to The B. F. Goodrich Company, Akron, Ohio. Household rubber gloves. 305,735, renewed Aug. 22, 1953. O. G. Oct. 13. Class 39.
American Art Clay Company, Indianapolis, Ind. Crayons. 580,965, Oct. 13; Serial No. 628,987, published June 30, 1953. Class 37.
American Colortype Company, Chicago, Ill., assignor to Armstrong Cork Company, Lancaster, Pa. Periodical publication. 581,076, Oct. 13; Serial No. 640,899, published June 30, 1953. Class 38.
American Cyanamid & Chemical Corporation to American Cyanamid Company, New York, N. Y. Synthetic tanning extract. 308,421, renewed Dec. 5, 1953. O. G. Oct. 13. Class 6.
American Cyanamid Company: *See*—
American Cyanamid & Chemical Corporation.
American District Steam Company, North Tonawanda, N. Y. Packless expansion joints for pipe lines. 580,898, Oct. 13; Serial No. 599,409, published July 21, 1953. Class 13.
American Hoist & Derrick Co., St. Paul, Minn. Rope clamps. 581,026, Oct. 13; Serial No. 638,388, published July 14, 1953. Class 13.
American Home Products Corporation: *See*—
S. M. A. Corporation.
American Hydrotherm Corp., New York, N. Y. Heating equipment. 523,426, Apr. 4, 1950. Amended. O. G. Oct. 13. Class 34.
American Lecithin Co. Inc., New York and Woodside, N. Y. Dietary supplements. 580,956, Oct. 13; Serial No. 627,659, published July 7, 1953. Class 18.
American-Marietta Company: *See*—
Marietta Paint & Color Co., The.
American Paper & Pulp Co., Inc., New York, N. Y. Bond paper. 581,047, Oct. 13; Serial No. 639,545, published June 30, 1953. Class 37.
American Porcelain Tooth Company Ltd., Nahlat Itzhak, near Tel-Aviv, Israel. Artificial teeth. 581,008, Oct. 13; Serial No. 636,191, published July 21, 1953. Class 44.
American Safety Razor Corporation: *See*—
Kampfe Bros.
Reichard, Jeremiah.
American Safety Razor Corporation, Brooklyn, N. Y. Safety razors and safety razor blades. 305,180, renewed Aug. 8, 1953. O. G. Oct. 13. Class 23.
Anquin Company, Lehighton, Pa. Women's full fashioned hosiery. 580,986, Oct. 13; Serial No. 632,820, published June 30, 1953. Class 39.
Arcos Corporation, Philadelphia, Pa. Electric arc welding electrodes. 580,944, Oct. 13; Serial No. 622,977, published July 14, 1953. Class 14.
Arkansas Company Inc., Newark, N. J. Textile treating compositions. 580,997, Oct. 13; Serial No. 635,020, published July 14, 1953. Class 6.
Armco Mercantile Co., Chicago, Ill. Magnifying spectacles. 581,049, Oct. 13; Serial No. 639,608, published June 16, 1953. Class 26.
Armsco Industries, Inc., Detroit, Mich. Hand operated feathering paddle for use at the stern of a boat. 581,124, Oct. 13; Serial No. 596,705. Class 19.
Armstrong Cork Company, assignee: *See*—
American Colortype Company.
Aronson-Caplin Company, Inc., to Seamprufe Incorporated, New York, N. Y. Rayon piece goods. 306,330, renewed Sept. 12, 1953. O. G. Oct. 13. Class 42.
Associated Brands, Inc.: *See*—
Lesma Products Co. Inc.
Atlantic Commission Co. Inc., New York, N. Y. Shelled salted peanuts, shelled salted assorted nut meats, etc. 581,102, Oct. 13; Serial No. 642,795, published June 30, 1953. Class 46.
Atlantic Powdered Metals Inc., New York, N. Y. Bronze powder. 581,136, Oct. 13; Serial No. 638,565. Class 6.
Atlas Baby Carriage Co., Inc., New York, N. Y. Baby carriages and strollers. 580,983, Oct. 13; Serial No. 632,144, published July 14, 1953. Class 19.
Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Synthetic resin pipe. 581,089, Oct. 13; Serial No. 641,597, published July 21, 1953. Class 13.
Automatic Buff Company, Chicago, Ill. Buffing wheels. 580,894, Oct. 13; Serial No. 592,184, published July 21, 1953. Class 4.
B. V. D. Company, Inc., The, Baltimore, Md., to The B. V. D. Company, Inc., New York, N. Y. Handkerchiefs. 306,603, renewed Sept. 26, 1953. O. G. Oct. 13. Class 39.
Bach, Edna A., doing business under the name and style of Bach's Peck-O-Egg Mfg. Co., Manhattan Beach, Calif. Bird biscuits. 581,018, Oct. 13; Serial No. 637,232, published June 30, 1953. Class 46.
Bach's Peck-O-Egg Mfg. Co.: *See*—
Bach, Edna A.
Bake-O-Nuts Company, assignee: *See*—
Bake-O-Nuts, Incorporated.
Bake-O-Nuts, Incorporated, Englewood, N. J., assignor to Bake-O-Nuts Company, New York, N. Y. Unshelled and shelled, baked, salted and unsalted nuts. 581,128, Oct. 13; Serial No. 622,478. Class 46.
Barbee Bait Company, Fort Wayne, Ind. Artificial fish lures. 580,959, Oct. 13; Serial No. 627,994, published July 14, 1953. Class 22.
Barmatic Products Company, Cleveland, Ohio. Drag links and tie rod ends for automotive vehicles. 580,909, Oct. 13; Serial No. 609,712, published July 14, 1953. Class 19.
Baxter, Don, Inc., Glendale, Calif. Blood anti-coagulant solutions. 580,931, Oct. 13; Serial No. 620,565, published June 30, 1953. Class 18.
Baxter, Don, Inc., Glendale, Calif. Blood anti-coagulant solutions. 580,932, Oct. 13; Serial No. 620,569, published June 30, 1953. Class 18.
Baxter, Don, Inc., Glendale, Calif. Solutions containing vitamins or constituents thereof and solutions for parenteral therapy. 580,933, Oct. 13; Serial No. 620,570, published June 30, 1953. Class 18.
Baxter, Don, Inc., Glendale, Calif. Solutions for parenteral use. 580,934, Oct. 13; Serial No. 620,574, published June 30, 1953. Class 18.
Baxter Laboratories, Inc., Morton Grove, Ill. Blood anti-coagulant solutions. 580,935, Oct. 13; Serial No. 620,575, published June 30, 1953. Class 18.
Baxter Laboratories, Inc., Morton Grove, Ill. Blood anti-coagulant solutions. 580,936, Oct. 13; Serial No. 620,579, published June 30, 1953. Class 18.
Baxter Laboratories, Inc., Morton Grove, Ill. Fluids for parenteral use, and solutions for parenteral therapy. 580,937, Oct. 13; Serial No. 620,581, published June 30, 1953. Class 18.
Baxter Laboratories, Inc., Morton Grove, Ill. Fluids for parenteral use. 580,938, Oct. 13; Serial No. 620,583, published June 30, 1953. Class 18.
Becton Dickinson and Company, Rutherford and East Rutherford, N. J. Glass specimen tube. 580,890, Oct. 13; Serial No. 577,472, published June 9, 1953. Class 33.
Bell & Howell Company, Chicago, Ill. Sound accompanied motion picture projectors. 581,050, Oct. 13; Serial No. 639,614, published June 16, 1953. Class 26.

Bennett, John C., assignee: *See*—
Paramount Publishing Company.

Beteo Corporation, The, Toledo, Ohio. Detergents. 581,111. Oct. 13; Serial No. 643,402, published July 14, 1953. Class 52.

Block Drug Company, Inc., doing business under the trade name and style of Emergency Laboratories, Jersey City, N. J. Water soluble base used in pharmaceutical preparations. 580,907, Oct. 13; Serial No. 608,913, published May 12, 1953. Class 18.

Blue, John, Company, Inc., Huntsville, Ala. Cultivator tool bars. 580,923, Oct. 13; Serial No. 616,542, published Apr. 28, 1953. Class 23.

Bolts, F. Walker, Los Angeles, Calif. Multiple-chamber ice cream freezer. 581,127, Oct. 13; Serial No. 618,440. Class 31.

Bona-Fido Dog Food Co.: *See*—
Cormier, Madeleine.

Bonne Bell Inc., Lakewood, Ohio. Face cream. 581,072, Oct. 13; Serial No. 640,437, published July 14, 1953. Class 51.

Borden Company, The, New York, N. Y. Butter. 581,027, Oct. 13; Serial No. 638,398, published July 7, 1953. Class 46.

Brach, E. J., & Sons, Chicago, Ill. Candy. 581,109, Oct. 13; Serial No. 643,276, published June 30, 1953. Class 46.

Brach, E. J., & Sons, Chicago, Ill. Candy. 581,110, Oct. 13; Serial No. 643,277, published July 7, 1953. Class 46.

Brake Linings Limited, Buxton, England. Brake linings. 304,349, renewed July 4, 1953. O. G. Oct. 13. Class 35.

Butterfield, George P., doing business as Slip Ease Products Co., Chicago, Ill. Chemical composition. 580,963, Oct. 13; Serial No. 629,844, published July 6, 1953. Class 6.

Buxton, Incorporated, Springfield, Mass. Billfolds. 581,135, Oct. 13; Serial No. 637,809. Class 3.

Bymart, Inc.: *See*—
Bymart-Tintair, Inc.

Bymart-Tintair, Inc., Dover, Del., and New York, N. Y., by change of name from Bymart, Inc. Home hair coloring. 580,904, Oct. 13; Serial No. 607,659, published June 30, 1953. Class 51.

Cadillac Dress Corp., New York, N. Y. Women's and children's dresses. 580,887, Oct. 13; Serial No. 568,712, published July 29, 1952. Class 39.

California Crushed Fruit Corporation, now by change of name Mission Dry Corporation, Ltd., by Mission Dry Corporation, Los Angeles, Calif. Non-alcoholic, maltless beverages. 288,155, Oct. 20, 1931. Republished Oct. 13. Class 45.

Campbell, Henry C., doing business as El-Bo-Ez Company, Skaneateles, N. Y. Polishing powder. 581,019, Oct. 13; Serial No. 637,264, published July 7, 1953. Class 4.

Capewell Manufacturing Company, The, Hartford, Conn. Ground flat metal stock. 580,980, Oct. 13; Serial No. 631,141, published July 14, 1953. Class 14.

Cardinal Chemical, Inc., Dallas, Tex. Liquid corrosion inhibitor. 581,105, Oct. 13; Serial No. 643,141, published July 21, 1953. Class 6.

Carey Press Corporation, New York, N. Y. Diaries. 580,977, Oct. 13; Serial No. 630,877, published June 30, 1953. Class 37.

Cargo-Guard Company, assignee: *See*—
Stampings Incorporated.

Casco Products Corporation, Bridgeport, Conn. Wire wheel hubs. 581,115, Oct. 13; Serial No. 644,010, published July 7, 1953. Class 19.

Caterpillar Tractor Co., Peoria, Ill. Toy replicas of wheel tractors, track-type tractors, bulldozers, etc. 581,016, Oct. 13; Serial No. 637,111, published July 7, 1953. Class 22.

Cement Gun Company: *See*—
Cement-Gun Company, Inc.

Cement-Gun Company, Inc., New York, N. Y., and Allentown, Pa., by Cement Gun Company, Allentown, Pa. Cementitious material. 308,005, Nov. 14, 1933. Republished Oct. 13. Class 12.

Center Products Co.: *See*—
Snyder, Dora C.

Centrifix Corporation, Cleveland, Ohio. Fluid separators. 235,267, Nov. 15, 1927. Republished Oct. 13. Class 13.

Centrifix Corporation, Cleveland, Ohio. Fluid separators. 442,791, May 31, 1949. Republished Oct. 13. Class 13.

Chambers, Harry C., doing business as U-Neek Manufacturing Co., St. Louis, Mo. Trailer hitches. 580,967, Oct. 13; Serial No. 629,555, published July 14, 1953. Class 14.

Chapman, Samuel, Inc., New York, N. Y. Fabrics. 580,957, Oct. 13; Serial No. 627,733, published July 14, 1953. Class 42.

Chemical Manufacturing & Distributing Company, by Lehigh Valley Chemical Company, Easton, Pa. Insecticides, disinfectants, deodorants, etc. 444,698, June 24, 1952. Republished Oct. 13. Classes 6, 18, and 52.

Chevron Ltd., assignee: *See*—
Hudnut, Richard.

Chicopee Manufacturing Corporation, New Brunswick, N. J., assignor to Chicopee Mills, Inc., New York, N. Y. Cotton linings. 580,920, Oct. 13; Serial No. 615,624, published July 14, 1953. Class 42.

Chicopee Mills, Inc., assignee: *See*—
Chicopee Manufacturing Corporation.

Chirardelli, D., Co., San Francisco, Calif. Chocolate, candy, cocoa, and mustard. 203,776, Nov. 17, 1925. Amended. O. G. Oct. 13. Class 46.

Ciba Limited, Basel, Switzerland. Coal tar colors. 581,097, Oct. 13; Serial No. 642,015, published July 21, 1953. Class 6.

Coca-Cola Bottling Company: *See*—
Porter, C. C.

Codekas, E. J.: *See*—
Johnson, Irene L.

Colonial Salt Company, Akron, Ohio, to Diamond Crystal Salt Co., St. Clair, Mich. Salt. 41,371, re-renewed Oct. 27, 1953. O. G. Oct. 13. Class 46.

Colorcrete Industries, Incorporated, Holland, Mich. Severable flower boxes, vases, urns, etc. 580,913, Oct. 13; Serial No. 611,018, published Nov. 25, 1952. Class 30.

Colorcrete Industries, Incorporated, Holland, Mich. Cementitious material. 580,914, Oct. 13; Serial No. 612,589, published Oct. 14, 1952. Class 12.

Columbia Ribbon & Carbon Manufacturing Company, Inc., Glen Cove, N. Y. Solution for making a master sheet out of paper or similar products to obtain reproductions therefrom. 581,001, Oct. 13; Serial No. 635,684, published July 21, 1953. Class 6.

Columbia River Packers Association, Inc., Astoria, Oreg. Canned, fresh, and fresh frozen fish. 581,074, Oct. 13; Serial No. 640,671, published July 7, 1953. Class 46.

Commercial Decal, Inc., Mount Vernon, N. Y. Ceramic decalcomanias. 580,994, Oct. 13; Serial No. 634,632, published Mar. 10, 1953. Class 38.

Comptoir de l'Industrie Cotonnière, Etablissements Boussac, Société à Responsabilité Limitée, Paris, France. Textile fabrics. 581,042, Oct. 13; Serial No. 639,417, published July 14, 1953. Class 42.

Comptoir des Textiles Artificiels, Paris, France. Textile fabrics. 580,985, Oct. 13; Serial No. 632,662, published July 14, 1953. Class 42.

Continental Blade Corporation, Brooklyn, N. Y. Razors and razor blades. 306,248, renewed Sept. 12, 1953. O. G. Oct. 13. Class 23.

Continental Blade Corporation, Brooklyn, N. Y. Razors and razor blades. 306,875, renewed Oct. 3, 1953. O. G. Oct. 13. Class 23.

Cormier, Madeleine, doing business as Bona-Fido Dog Food Co., New York, N. Y. Canned dog food. 581,011, Oct. 13; Serial No. 636,345, published June 16, 1953. Class 46.

Cunningham, Russ, Chicago, Ill. Periodically issued series of radio scripts. 581,041, Oct. 13; Serial No. 639,395, published June 30, 1953. Class 38.

Daitch Crystal Dairies, Inc., assignee. *See*—
Foodville Inc.

Daniel Feed and Seed Co., Douglas, Ga. Fresh eggs. 581,014, Oct. 13; Serial No. 636,882, published July 7, 1953. Class 46.

Davenport Hosiery Mills, Inc., Chattanooga, Tenn. Hosiery. 580,978, Oct. 13; Serial No. 630,992, published June 30, 1953. Class 39.

Davies, Theo. H., & Co., Ltd., Honolulu, Hawaii. Canned peas. 280,185, Feb. 10, 1931. Republished Oct. 13. Class 46.

Davis Manufacturing Co.: *See*—
Davis Manufacturing Co., Inc.

Davis Manufacturing Co., Inc., doing business as Davis Manufacturing Co., Knoxville, Tenn. Liquid preparation which is put on live or artificial bait. 580,953, Oct. 13; Serial No. 626,609, published July 21, 1953. Class 22.

Dearborn Supply Company, Chicago, Ill. Astringent powder and astringent cream. 581,077, Oct. 13; Serial No. 640,917, published July 14, 1953. Class 51.

Deering, Milliken & Co., Inc., New York, N. Y. Textile fabrics. 581,000, Oct. 13; Serial No. 635,350, published July 14, 1953. Class 42.

Dennis, W. J., & Company, Chicago, Ill. Weather strip. 580,893, Oct. 13; Serial No. 590,866, published July 14, 1953. Class 12.

Diadust Corporation, Manhasset, N. Y. Detergents. 580,924, Oct. 13; Serial No. 616,591, published July 14, 1953. Class 52.

Diamond Alkali Company, Cleveland, Ohio. Washing compound. 580,946, Oct. 13; Serial No. 623,651, published July 21, 1953. Class 52.

Diamond Crystal Salt Co.: *See*—
Colonial Salt Company.

Dietrich, Wilson G., doing business as Wilson Arts & Crafts, Faribault, Minn. Artists' hand paint. 581,137, Oct. 13; Serial No. 638,903. Class 16.

Disston, Henry, & Sons, Incorporated, Philadelphia, Pa. Saws. 94,719, re-renewed Dec. 30, 1953. O. G. Oct. 13. Class 23.

Disston, Henry, & Sons, Incorporated, Tacony, to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Saws. 308,511, renewed Dec. 5, 1953. O. G. Oct. 13. Class 23.

Disston, Henry, & Sons, Incorporated, Tacony, to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Saws. 308,513, renewed Dec. 5, 1953. O. G. Oct. 13. Class 23.

Diversey Corporation, The, Chicago, Ill. Solution feeding attachment for commercial can washers, bottle washers and the like. 580,916. Oct. 13; Serial No. 613,562, published June 16, 1953. Class 26.

Doehler-Jarvis Corporation, Toledo, Ohio, assignor to National Lead Company, New York, N. Y. Castings of brass alloy. 580,979, Oct. 13; Serial No. 630,996, published June 9, 1953. Class 14.

Donovan, Marion, Saugatuck, Conn. Facial tissue. 580,969, Oct. 13; Serial No. 630,061, published June 16, 1953. Class 37.

Doulton & Co., Limited, Burslem and London, England. Earthenware, porcelain or bone china dinnerware, decorative plates, etc. 580,990, Oct. 13; Serial No. 633,573, published June 2, 1953. Class 30.

Dow Corning Corporation, Midland, Mich. Organopolysiloxane fluids for use as polishes and polish additives. 581,078, Oct. 13; Serial No. 640,920, published July 21, 1953. Class 4.

Duraloom Carpet Mills, Inc., New York, N. Y. Textile carpets. 581,092, Oct. 13; Serial No. 641,703, published July 14, 1953. Class 42.

Eastern Electric, Inc., New Bedford, Mass. Thermostatically controlled instruments. 580,928, Oct. 13; Serial No. 618,630, published May 12, 1953. Class 26.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Vacuum diffusion pump fluids comprising chlorinated hydrocarbon oils. 581,066, Oct. 13; Serial No. 640,111, published July 21, 1953. Class 6.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. High vacuum gaskets. 581,067, Oct. 13; Serial No. 640,113, published July 21, 1953. Class 35.

Edwards, Dwight, Company, San Francisco, to Safeway Stores, Incorporated, Oakland, Calif. Coffee. 307,815, renewed Nov. 7, 1953. O. G. Oct. 13. Class 46.

El-Bo-Ez Company: *See*—
Campbell, Henry C.

Elgin Softener Corporation, Elgin, Ill. Water softener control valves incorporating automatic timers. 581,125, Oct. 13; Serial No. 607,248. Class 26.

Elna Brands, Inc., Chicago, Ill. Dog food. 581,117, Oct. 13; Serial No. 644,396, published July 7, 1953. Class 46.

Emergency Laboratories: *See*—
Block Drug Company, Inc.

Emmer J. Wiltz, doing business under the name of The Surfluoricide Co., New Iberia, La. Solution for preventing decay of the teeth. 581,060, Oct. 13; Serial No. 639,925, published July 14, 1953. Class 18.

Engel Mills, New York, N. Y. Clothing for men, clothing for babies, clothing for boys, etc. 580,901, Oct. 13; Serial No. 605,150, published June 30, 1953. Class 39.

Eutectic Welding Alloys Corporation, New York, N. Y. Metallic welding electrodes. 581,084, Oct. 13; Serial No. 641,134, published July 14, 1953. Class 14.

Everedy Company, The, Frederick, Md. Metal hollow ware ovens. 580,926, Oct. 13; Serial No. 617,438, published June 3, 1952. Class 13.

F. and M. Distributing Company, Little Rock, Ark. Prophylactics. 580,999, Oct. 13; Serial No. 635,176, published July 14, 1953. Class 44.

Fansteel Metallurgical Corporation, North Chicago, Ill. Tantalum, tungsten, molybdenum and columbium; etc. 581,051, Oct. 13; Serial No. 639,623, published July 14, 1953. Class 14.

Ferber Corporation, Englewood, N. J. Ball point pens, fountain pens, mechanical pencils, etc. 581,068, Oct. 13; Serial No. 640,155, published June 30, 1953. Class 37.

Finch, Joseph S., and Company: *See*—
Pennsylvania Distilling Co., Inc.

Fisher, Andrew, Cycle Co., Inc., New York, N. Y. Bicycles. 581,004, Oct. 13; Serial No. 635,877, published July 14, 1953. Class 19.

Flamort Chemical Co., San Francisco, Calif. Preparations for fireproofing wood, wood products, paper, etc. 581,052. Oct. 13; Serial No. 639,627, published July 21, 1953. Class 6.

Flaster, Marcella, doing business as The Theon Company, by The Theon Company, Inc., New York, N. Y. Nail polish. 312,491, May 1, 1934. Republished Oct. 13. Class 51.

Flavor Corporation of America, Chicago, Ill. Concentrated food flavoring material. 580,966, Oct. 13; Serial No. 629,161, published May 26, 1953. Class 46.

Fleming Co., Incorporated, The, Topeka, Kans. Canned vegetables, tomato puree, canned pumpkin, etc. 581,140. Oct. 13; Serial No. 645,759. Class 46.

Fli-Back Company: *See*—
Gibson, Rosena M.

Fli-Back Company, Inc., The: *See*—
Gibson, Rosena M.

Florists Marketing Organization, The: *See*—
Knoble, Herman P.

Florsheim Shoe Company, The, Chicago, Ill. Shoes. 305,602, renewed Aug. 22, 1953. O. G. Oct. 13. Class 39.

Foil Enterprises: *See*—
Gannon, Donn H.

Foodville Inc., Flushing, assignor to Daitch Crystal Dairies, Inc., Bronx, N. Y. Cheese. 580,908, Oct. 13; Serial No. 609,292, published Feb. 10, 1953. Class 46.

Forstmann Woolen Company, Passaic, N. J. Men's, women's and children's knitted apparel. 580,939, Oct. 13; Serial No. 620,845, published June 30, 1953. Class 39.

Fort Howard Paper Company, Green Bay, Wis. Paper napkins. 581,073, Oct. 13; Serial No. 640,508, published June 30, 1953. Class 37.

Frank, S. H., & Company, San Francisco, Calif. Sole leather. 304,845, renewed July 18, 1953. O. G. Oct. 13. Class 1.

Fraser, Malcolm, & Co.: *See*—
Wine & Spirit Vaults Limited.

Fraser, Malcolm, & Co. Limited: *See*—
Wine & Spirit Vaults Limited.

Fried. Krupp: *See*—
Fried. Krupp Aktiengesellschaft.

Fried. Krupp Aktiengesellschaft to Alfried Krupp von Bohlen und Halbach, doing business as Fried. Krupp, Essen, Germany. Steel and iron plates, bars, sheet-steel, etc. 92,767, re-renewed July 29, 1953. O. G. Oct. 13. Class 14.

Fried. Krupp Aktiengesellschaft, to Alfried Krupp von Bohlen und Halbach, doing business as Fried. Krupp, Essen, Germany. Machine-shafts, crank-shafts, straight shafts, etc. 92,973, re-renewed Aug. 12, 1953. O. G. Oct. 13. Class 23.

Fried. Krupp Aktiengesellschaft, to Alfried Krupp von Bohlen und Halbach, doing business as Fried. Krupp, Essen, Germany. Vehicle tires, wheels, axles, etc. 93,246, re-renewed Sept. 9, 1953. O. G. Oct. 13. Class 19.

Fried. Krupp Aktiengesellschaft, to Alfried Krupp von Bohlen und Halbach, doing business as Fried. Krupp, Essen, Germany. Metallic carbides and their alloys. 304,773, renewed July 18, 1953. O. G. Oct. 13. Class 14.

Fried. Krupp Aktiengesellschaft, to Alfried Krupp von Bohlen und Halbach, doing business as Fried. Krupp, Essen, Germany. Hand and machine tools. 306,108, renewed Nov. 21, 1953. O. G. Oct. 13. Class 23.

Futura Corporation, Chicago, Ill. Glassware. 581,017, Oct. 13; Serial No. 637,177, published June 9, 1953. Class 33.

Gannon, Donn H., doing business under the fictitious name and style of Foil Enterprises, Mill Valley, Calif. Aluminum foil. 581,044. Oct. 13; Serial No. 639,468, published July 14, 1953. Class 14.

Gard Industries, Skokie, Ill. Waterproofing composition. 580,910. Oct. 13; Serial No. 609,721, published July 21, 1953. Class 6.

Garden City Plating & Mfg. Co., Chicago, Ill. Sliding door sheaves, door tracks, door rollers, etc. 580,918, Oct. 13; Serial No. 613,841, published July 14, 1953. Class 18.

General Dyestuff Corporation, New York, N. Y. Dyestuff stripping agent. 581,106, Oct. 13; Serial No. 643,150, published July 21, 1953. Class 6.

General Time Corporation: *See*—
Western Clock Co.

Gering Products, Inc., Kenilworth, N. J. Plastic mix. 580,964. Oct. 13; Serial No. 632,367, published July 14, 1953. Class 6.

Gibson, Rosena M., doing business as Fli-Back Company, to The Fli-Back Company, Inc., High Point, N. C. Toy. 304,964, renewed July 25, 1953. O. G. Oct. 13. Class 22.

Gibson, Rosena M., doing business as Sock-It Company, to The Sock-It Company, Inc., High Point, N. C. Toy. 304,969, renewed July 25, 1953. O. G. Oct. 13. Class 22.

Gift House: *See*—
Smith, Stanley D.

Gloag, Matthew, & Son: *See*—
Gloag, Matthew W.

Gloag, Matthew, & Son Limited: *See*—
Gloag, Matthew W.

Gloag, Matthew W., doing business as Matthew Gloag & Son, to Matthew Gloag & Son Limited, Perth, Scotland. Whisky. 306,490, renewed Sept. 19, 1953. O. G. Oct. 13. Class 49.

Gold Eagle Products Co., Chicago, Ill. Liquid preparation for lubricating, freeing, and preventing the freezing of keyholes, etc. 581,126, Oct. 13; Serial No. 611,087. Class 15.

Goldstein, Jeff, Inc., New York, N. Y. Textile fabrics. 581,093. Oct. 13; Serial No. 641,721, published July 14, 1953. Class 42.

Goodman & Theise, Inc., New York, N. Y. Piece goods. 580,927, Oct. 13; Serial No. 618,576, published July 14, 1953. Class 42.

Goodrich, B. F., Company, The: *See*—
American Anode Inc.

Goodrich, B. F., Company, The, Akron, Ohio. Pulley lagging made of rubber and textile material for use with flat belting. 580,925, Oct. 13; Serial No. 616,766, published July 21, 1953. Class 35.

Gordon Chemical Co., Inc., Kansas City, Mo. Liquid wood preservative. 580,930, Oct. 13; Serial No. 620,501, published July 21, 1953. Class 6.

Graton & Knight Company, Worcester, Mass. Baseball sets. 581,119, Oct. 13; Serial No. 646,664, published July 21, 1953. Class 22.

Great Atlantic and Pacific Tea Company, The, New York, N. Y. Candy. 581,099, Oct. 13; Serial No. 642,347, published July 7, 1953. Class 46.

Greenwich Preserving Co., Inc., Dunkirk, N. Y. Jams, jellies, fruit preserves, etc. 580,972–3, Oct. 13; Serial Nos 630,708–9, published June 16, 1953. Class 46.

Gretener, Dr. Edgar, A. G., Zurich, Switzerland. Photographic films and sensitized photographic papers. 581,061, Oct. 13; Serial No. 639,930, published June 23, 1953. Class 26.

Gretsch, Fred, Mfg. Co., The, Brooklyn, N. Y. Cymbals. 228,592, June 7, 1927. Canceled Dec. 10, 1951. O. G. Oct. 13. Class 36.

Haeger Potteries, Inc., The, Dundee, Ill. Various ceramic products. 580,921, Oct. 13; Serial No. 615,829, published June 2, 1953. Class 30.

Handi Foods Company, Inc., Augusta, Ga. Frozen chopped beef. 546,459, Aug. 7, 1951. Canceled Sept. 11, 1953. O. G. Oct. 13. Class 46.

Hark Pharmacal Co., New York, N. Y. Medical and pharmaceutical cough mixture. 581,134, Oct. 13; Serial No. 637,310. Class 18.

Hartford Element Company, The, to L. E. Whelan Co., Hartford, Conn. Replacement electrical elements. 441,903, Jan. 25, 1949. New certificate. O. G. Oct. 13. Class 21.

Harwood Co., The, Farmingdale, N. J. Poultry watering fountains. 581,065, Oct. 13; Serial No. 640,041, published July 14, 1953. Class 13.

Hastogo Laboratories, Inc., assignee: *See*—
Sweetman's Laboratories, Inc.

Heddon's, James, Sons, Dowagiac, Mich. Fishing tackle. 581,012, Oct. 13; Serial No. 636,708, published July 21, 1953. Class 22.

Heise, Herman A., Milwaukee, Wis. Complementary pairs of magnetized metallic indicators. 580,952, Oct. 13; Serial No. 626,248, published June 23, 1953. Class 26.

Herald Products Company: *See*—
Schulenburg, George F.

Herb Juice-Penol Company, Inc., Danville, Va. Foot preparation. 367,555, May 23, 1939. Canceled July 29, 1953. O. G. Oct. 13. Class 18 (formerly Class 6).

Heublein, G. F., & Bro., Inc., Hartford, Conn. Canned soups; mustard; canned baked beans, etc. 581,007, Oct. 13; Serial No. 636,128, published June 30, 1953. Class 46.

Hoak Packing Company, Inc., Fresno, Calif. Fresh grapes. 580,988, Oct. 13; Serial No. 633,364, published July 7, 1953. Class 46.

Hobson, J. H., Company, Philadelphia, Pa. Food coating. 581,034–5, Oct. 13; Serial Nos. 639,051–2, published July 7, 1953. Class 46.

Holiday Ranch, Inc., Columbia Falls, Mont. Incense. 581,113, Oct. 13; Serial No. 643,548, published July 21, 1953. Class 6.

Houghton, E. F., & Co., Philadelphia, Pa. Carbonizing compounds; disinfectants; compounds for preventing oxidation, etc. 93,995, re-renewed Oct. 28, 1953. O. G. Oct. 13. Class 6.

Houghton, E. F., & Co., Philadelphia, Pa. Lubricating oils; lubricating greases; tempering oils, etc. 94,638, re-renewed Dec. 23, 1953. O. G. Oct. 13. Class 15.

Houghton, E. F., & Co., Philadelphia, Pa. Leather belting. 308,473–4, renewed Dec. 5, 1953. O. G. Oct. 13. Class 35.

Houghton, E. F., & Co., Philadelphia, Pa. Pickling compounds for removing scale from steel. 309,034, renewed Dec. 26, 1953. O. G. Oct. 13. Class 52.

House of Stuart, Incorporated, The, Newark, N. Y. Cleansing cream, cleansing lotion, dry complexion cream, etc. 580,900, Oct. 13; Serial No. 605,033, published July 21, 1953. Class 51.

House of Stuart Incorporated, The, Newark, N. Y. Antiseptic foot powder. 580,902, Oct. 13; Serial No. 605,258, published July 7, 1953. Class 18.

Houston-Fearless Corporation, assignee: *See*—
Monogram Manufacturing Company.

Hudnut, Richard, assignor to Chevron, Ltd., to Richard Hudnut, New York, N. Y. Shaving cream. 304,481, renewed July 11, 1953. O. G. Oct. 13. Class 51.

Humko Co., The, doing business under the name of Tri-State Refining Co., Memphis, Tenn. Hydrogenated lard. 580,955, Oct. 13; Serial No. 627,508, published June 16, 1953. Class 46.

Hunt, H. R., Putty Mfg. Co. Inc.: *See*—
Hunt, Harold E.

Hunt, Harold R., by H. R. Hunt Putty Mfg. Co. Inc., Los Angeles, Calif. Putty. 256,502, May 21, 1929. Republished Oct. 13. Class 12.

Illes, A. E., Company, Dallas, Tex. Syrup. 580,982, Oct. 13; Serial No. 632,087, published July 7, 1953. Class 46.

Imperial Chemical Industries Limited, London and Millbank, London, England. Lime, cement, plaster, etc. 580,896, Oct. 13; Serial No. 594,781, published July 14, 1953. Class 12.

Ingram, David, Detroit, Mich. Men's and women's hats and caps. 580,942, Oct. 13; Serial No. 620,965, published June 30, 1953. Class 39.

International Minerals & Chemical Corporation, Chicago, Ill. Bakery products. 581,096, Oct. 13; Serial No. 641,927, published July 21, 1953. Class 46.

International Nickel Company, Inc., The, New York, N. Y. Rolled carbon-bearing nickel anode bars. 581,022, Oct. 13; Serial No. 637,826, published July 14, 1953. Class 14.

Jackson, Byron, Co., Los Angeles, Calif. Monthly publication. 581,006, Oct. 13; Serial No. 636,080, published June 30, 1953. Class 38.

Jacobs, R., Inc., Philadelphia, Pa. Men's formal clothing. 580,989, Oct. 13; Serial No. 633,366, published Feb. 24, 1953. Class 39.

Jennings Musical Instruments Limited, Dartford, Kent, England. Portable electronic music tone reproducing keyboard instrument. 580,993, Oct. 13; Serial No. 634,596, published July 14, 1953. Class 36.

Johnson, Irene L., doing business as Sun Gold Gardens, Indio, by E. J. Codekas, Thermal, Calif. Fresh dates and fresh citrus fruit. 373,678, Dec. 19, 1939. Republished Oct. 13. Class 46.

Johnson, S. C., & Son, Inc., Racine, Wis. Cleaning and polishing preparation. 581,112, Oct. 13; Serial No. 643,491, published July 14, 1953. Class 4.

Kampfe Bros., New York, to American Safety Razor Corporation, Brooklyn, N. Y. Cases for razors and razor parts. 40,777, re-renewed July 14, 1953. O. G. Oct. 13. Class 2.

Kansas City Star Company, The, Kansas City, Mo. Newspapers. 570,692, Feb. 17, 1953. Corrected. O. G. Oct. 13. Class 38.

Kentile, Inc., Brooklyn, N. Y. Floor sweeping composition with incidental polishing properties. 581,036, Oct. 13; Serial No. 639,176, published July 14, 1953. Class 4.

Keuffel & Esser Company, Hoboken, N. J. Tracing-paper. 40,582, re-renewed June 16, 1953. O. G. Oct. 13. Class 37.

Knoble, Herman P., doing business as The Florists Marketing Organization, Cleveland, Ohio. Combined merchandising tags and labels. 351,588, Nov. 2, 1937. Canceled Sept. 11, 1953. O. G. Oct. 13. Class 37.

Kreisler, Jacques, Manufacturing Corporation, North Bergen, N. J. Watch bands. 581,104, Oct. 13; Serial No. 642,885, published June 9, 1953. Class 28.

Landers Corporation, The, Toledo, Ohio. Waterproofed and water-repellent textile fabrics. 418,689, Jan. 8, 1946. Amended. O. G. Oct. 13. Class 42.

Larus & Brother Company, Richmond, Va. Plug tobacco and cigarettes. 305,239, Aug. 8, 1933. Republished Oct. 13. Class 17.

Lehigh Valley Chemical Company: *See*—
Chemical Manufacturing & Distributing Company.

Leslie Co., Lyndhurst, N. J. Temperature-controlled valves, pressure operated and thermostatically operated valves, etc. 580,899, Oct. 13; Serial No. 600,543, published May 5, 1953. Class 26.

Lesma Products Co. Inc., to Associated Brands, Inc., New York, N. Y. Hair tonics, bay rum, skin cream, etc. 305,014, renewed July 25, 1953. O. G. Oct. 13. Class 51.

Lion Manufacturing, Inc., Columbus, Ohio. Electronic instrument which simultaneously registers the amplitude of vibration in linear displacement and the frequency of its occurrence, etc. 580,917, Oct. 13; Serial No. 613,647, published June 16, 1953. Class 26.

Loose-Wiles Biscuit Company, Boston, Mass., to Sunshine Biscuits, Inc., Long Island City, N. Y. Biscuits, cakes, and cookies. 91,099, re-renewed Apr. 15, 1953. O. G. Oct. 13. Class 46.

Lower, Ferol A., doing business as Pappy's Products, House Springs, Mo. Sassafras tea concentrate. 581,009, Oct. 13; Serial No. 636,240, published July 7, 1953. Class 46.

Lux Clock Manufacturing Company, Inc., The, Waterbury, Conn. Combination clocks and range timers. 433,017, Sept. 23, 1947. Republished Oct. 13. Class 27.

Lux Clock Manufacturing Company, Inc., The, Waterbury, Conn. Time controlled instruments. 436,634, Feb. 17, 1948. Republished Oct. 13. Class 26.

Magazine Publishers, Inc., Chicago, Ill. Comic magazines. 581,088, Oct. 13; Serial No. 641,455, published June 30, 1953. Class 38.

Maico Company, Incorporated, The, Minneapolis, Minn. Electronic hearing aids. 581,025, Oct. 6, 1953; Serial No. 638,304, published July 21, 1953. Class 44.

Marcus & Wiesen Inc., New York, N. Y., to Vanity Fair Mills, Inc., Reading, Pa. Girdles. 305,749, renewed Aug. 22, 1953. O. G. Oct. 13. Class 39.

Marietta Paint & Color Co., The, Marietta, Ohio, by American-Marietta Company, Chicago, Ill. Water and wear resisting finish for interior walls, etc. 303,812, June 6, 1933. Republished Oct. 13. Class 16.

Market Metal Products, Youngstown, Ohio. Mirror supporting fixture. 581,023, Oct. 13; Serial No. 637,932, published July 14, 1953. Class 13.

Markwell Manufacturing Co., Inc., New York, N. Y. Fountain pens. 580,949, Oct. 13; Serial No. 625,208, published June 30, 1953. Class 37.

Mars, Incorporated, Chicago, Ill. Candy. 308,958, renewed Dec. 26, 1953. O. G. Oct. 13. Class 46.

Marshall-Wells Company, Duluth, Minn. Laundry washing machines and laundry dryers. 581,101, Oct. 13; Serial No. 642,677, published July 14, 1953. Class 24.

Matter, A. J., Mfg. Co., Chicago, Ill. Table leveling glides. 581,040, Oct. 13; Serial No. 639,382, published July 21, 1953. Class 13.

Mattox and Moore, Inc., Indianapolis, Ind. Injectable estrogen-containing composition. 580,950, Oct. 13; Serial No. 626,039, published July 7, 1953. Class 18.

McBee Company, The, Athens, Ohio. Key and gang punches, manually or power operated numbering, slotting, punching machines, trimmers, dies, etc. 580,885, Oct. 13; Serial No. 543,619, published May 5, 1953. Class 23.

McCampbell & Company, Inc., New York, N. Y. All cotton sports denim, a fabric. 580,962, Oct. 13; Serial No. 628,363, published July 14, 1953. Class 42.

Merck & Co., Inc.: *See*—
Sharp & Dohme Incorporated.

Metropolitan Label Co., Brooklyn, N. Y. Printed cloth and paper labels and printed paper tags. 580,995, Oct. 13; Serial No. 634,796, published June 30, 1953. Class 38.

Mid-State Products Company, Cleveland, Ohio. Toothpaste dispensers. 580,992, Oct. 13; Serial No. 634,205, published July 14, 1953. Class 13.

Miles, H. G., Limited, London, to H. G. Miles Limited, Dunstable, England. Device in the form of a flexible strap or band to facilitate the carrying of articles. 301,438, renewed Feb. 28, 1953. O. G. Oct. 13. Class 3.

Milk-O-Meter Co.: *See*—
Rose, Robert E.

Miller, Louis, doing business as Louis Miller and Company, New York, N. Y. Men's dress shirts. 354,815, Feb. 22, 1938. Canceled Sept. 11, 1953. O. G. Oct. 13. Class 39.

Miller, Louis, and Company: *See*—
Miller, Louis.

Milliken, John T., & Company, St. Louis, Mo. Liquid preparation having tonic, diuretic, and other medicinal qualities. 224,039, Feb. 15, 1927. Amended. O. G. Oct. 13. (Formerly Class 6.) Class 18.

Milne-O'Berry Packing Co. Inc., St. Petersburg, Fla. Fresh oranges and grapefruit. 581,013, Oct. 13; Serial No. 636,856, published July 7, 1953. Class 46.

Milner Products Company, Jackson, Miss. Powdered bleach. 581,010, Oct. 13; Serial No. 636,243, published July 21, 1953. Class 6.

"Minex" Centrala Eksportowo-Importowa Wytworow Przemyslu Mineralnego Przedsiebiorstwo Panstwowe, Warsaw, Poland. Crystal table ware. 580,971, Oct. 13; Serial No. 630,367, published June 9, 1953. Class 33.

Minor, P. W., & Son, by P. W. Minor & Son, Inc., Batavia, N. Y. Leather boots and shoes. 40,816, July 28, 1903. Republished Oct. 13. Class 39.

Minor, P. W., & Son, Inc.: *See*—
Minor, P. W., & Son.

Mission Dry Corporation: *See*—
California Crushed Fruit Corporation.

Mission Dry Corporation, Ltd.: *See*—
California Crushed Fruit Corporation.

Modern Sales Company, Los Angeles, Calif. Carbonated beverage dispenser. 581,079, Oct. 13; Serial No. 640,949, published July 14, 1953. Class 13.

Monogram Manufacturing Company, Los Angeles and West Los Angeles, assignor, by mesne assignments, to Houston-Fearless Corporation, Los Angeles, Calif. Adjustable mechanical seal. 580,889, Oct. 13; Serial No. 574,153, published July 21, 1953. Class 35.

Monsanto Chemical Company, St. Louis, Mo. Soluble fertiliser concentrates. 581,091, Oct. 13; Serial No. 641,684, published July 21, 1953. Class 10.

Moore, John W., doing business as Moore Products Mfg. Co., Ames, Iowa. Cleaner. 580,948, Oct. 13; Serial No. 624,348, published July 21, 1953. Class 52.

Moore Products Mfg. Co.: *See*—
Moore, John W.

Morris, E., Manufacturing Company, Detroit, Mich. Razor strops. 580,884, Oct. 13; Serial No. 512,521, published July 7, 1953. Class 4.

Murphy Ranch Company, Whittier, Calif. Fresh citrus fruits. 581,021, Oct. 13; Serial No. 637,784, published June 16, 1953. Class 46.

Narmco, Inc., San Diego, Calif. Fiberglas scrim fabric impregnated with adhesive. 580,954, Oct. 13; Serial No. 626,899, published June 16, 1953. Class 5.

National Lead Company, assignee: *See*—
Doehler-Jarvis Corporation.

National Plastic Corporation, New York, N. Y. Lazy Susans. 581,046, Oct. 13; Serial No. 639,544, published July 14, 1953. Class 13.

National Plumbing Stores Corp., Columbus, Ohio. Semi-yearly periodical publication. 581,075, Oct. 13; Serial No. 640,750, published June 30, 1953. Class 38.

National Retailer-Owned Grocers, Inc., Chicago, Ill. Canned vegetables, canned mushrooms, canned prepared spaghetti, etc. 580,891, Oct. 13; Serial No. 584,146, published June 16, 1953. Class 46.

Newnan Cotton Mills, Newnan, Ga. Textile fabrics. 581,085, Oct. 13; Serial No. 641,148, published July 14, 1953. Class 42.

New Yorker Magazine, Inc., The, New York, N. Y. Magazine column. 581,020, Oct. 13; Serial No. 637,392, published June 30, 1953. Class 38.

Nilson, Carolyn, doing business under the name Carolyn Nilson, Cosmetics, Detroit, Mich. Cosmetics and toilet preparations. 581,082, Oct. 13; Serial No. 641,080, published July 21, 1953. Class 51.

Nilson, Carolyn, Cosmetics: *See*—
Nilson, Carolyn.

Noritake Co., Inc., New York, N. Y. Dinnerware and tableware made of china. 581,038–9, Oct. 13; Serial Nos. 639,235–6, published June 9, 1953. Class 30.

Norman Products, Inc., Cleveland, Ohio. Suds for dishes and free rinse. 581,116, Oct. 13; Serial No. 644,340, published July 21, 1953. Class 52.

Northern Milling Company, Wausau, Wis. Formula mixed feeds. 580,958, Oct. 13; Serial No. 627,829, published July 7, 1953. Class 46.

Northrop Aircraft, Inc., Hawthorne, Calif. Compositions for application to interfaces of optical elements to form light absorbing films, etc. 581,107, Oct. 13; Serial No. 643,239, published July 14, 1953. Class 6.

Northwestern Elevator & Mill Co., The, Mount Vernon and Toledo, Ohio. White wheat flour. 580,892, Oct. 13; Serial No. 588,449, published July 7, 1953. Class 46.

Nu-Side Corporation, assignee: *See*—
Re-Nu-It Corporation.

Ohio Paint & Color Company: *See*—
Wohlworth, Louis A.

Oil Recovery Chemicals, Austin, Tex. Chemical detergent. 581,129, Oct. 13; Serial No. 629,315. Class 52.

Orange-Crush Company, Chicago, Ill. Nonalcoholic, noncereal and maltless beverages and syrups, etc. 304,477, renewed July 11, 1953. O. G. Oct. 13. Class 45.

Orvis, Chas. F., Company, Inc., Manchester, Vt. Fishing rods, reels and reel cases, fishing lines, etc. 580,991, Oct. 13; Serial No. 633,626, published July 21, 1953. Class 22.

Owens-Corning Fiberglas Corporation, Toledo, Ohio. Acoustic tile and sound absorbing baffles. 580,998, Oct. 13; Serial No. 635,148, published June 16, 1953. Class 12.

Pappy's Products: *See*—
Lower, Ferol A.

Paramount Publishing Company, assignor to J. C. Bennett, Charlotte, N. C. Tax computation booklets. 581,015, Oct. 13; Serial No. 637,076, published June 30, 1953. Class 38.

Parker Pen Company, The, Janesville, Wis. Pen points. 410,557, Dec. 5, 1944. Republished Oct. 13. Class 37.

Paton, John G., Company, Inc., The, New York, N. Y. Canned pineapple juice. 581,103, Oct. 13; Serial No. 642,835, published June 30, 1953. Class 46.

Penney, Milton H., doing business as Penney Woodcraft Industries, Defiance, Ohio. Boat kits. 581,118, Oct. 13; Serial No. 644,565, published July 21, 1953. Class 19.

Penney Woodcraft Industries: *See*—
Penney, Milton H.

Pennsylvania Distilling Co., Inc., Logansport, Pa., and Brooklyn, N. Y., to Joseph S. Finch and Company, Schenley, Pa. Whisky. 308,777, renewed Dec. 19, 1953. O. G. Oct. 13. Class 49.

Pepperell Manufacturing Company, Boston, Mass. Blankets. 581,094, Oct. 13; Serial No. 641,860, published July 14, 1953. Class 42.

Perry, Saul H., doing business as Pickwick Ice Cream Company, to The Pickwick Ice Cream Company, Stamford, Conn. Ice cream. 305,282, renewed Aug. 8, 1953. O. G. Oct. 13. Class 46.

Phillips Petroleum Company, Bartlesville, Okla. Storage batteries. 308,807, renewed Dec. 19, 1953. O. G. Oct. 13. Class 21.

Phillips Petroleum Company, Bartlesville, Okla. Automobile and furniture polish and automobile touch-up enamel. 308,989, renewed Dec. 26, 1953. O. G. Oct. 13. Class 4.

Pickwick Ice Cream Company: *See*—
Perry, Saul H.

Pickwick Ice Cream Company, The: *See*—
Perry, Saul H.

Pillsbury Mills, Inc., Minneapolis, Minn. Feed for hogs. 581,132, Oct. 13; Serial No. 637,080. Class 46.

Plast-O-Matic Corporation, Fitchburg, Mass. Plastic toys. 581,100, Oct. 13; Serial No. 642,567, published July 21, 1953. Class 22.

Porter, C. C., by Coca-Cola Bottling Company, Holdrege, Nebr. Carbonated beverages. 92,121, June 17, 1913. Republished Oct. 13, 1953. Class 45.

Premier Mill Corporation, Geneva, N. Y. Motor-driven high speed centrifugal mixing apparatus. 580,943, Oct. 13; Serial No. 621,421, published May 5, 1953. Class 23.

Princeton Knitting Mills, Inc., New York, N. Y. Knitted fabrics. 581,033, Oct. 13; Serial No. 638,974, published July 14, 1953. Class 42.

Procter & Gamble Company, The, Cincinnati, Ohio. Suds-ing cleaner, cleanser and detergent. 581,139, Oct. 13; Serial No. 645,073. Class 52.

Pronto Products Co., Kansas City, Kans. Grain fumigants. 580,961, Oct. 13; Serial No. 628,051, published July 21, 1953. Class 6.

Quaker China of Salem, Inc., Salem, Ohio. Semivitreous china. 581,032, Oct. 13; Serial No. 638,870, published June 9, 1953. Class 30.

Quaker Lace Company, Philadelphia, Pa. Tablecloths and bedspreads. 581,002, Oct. 13; Serial No. 635,718, published July 14, 1953. Class 42.

Radiator Specialty Company, Charlotte, N. C. Flush tank balls. 580,911, Oct. 13; Serial No. 610,631, published July 21, 1953. Class 13.

Reaction Products Co., The, Richmond, Calif. Chemical cleanser for copper, stainless steel, etc. 580,897, Oct. 13; Serial No. 596,865, published July 21, 1953. Class 52.

Reeves, Peter, Markets, Inc., New York, N. Y. Coffee and tea. 580,964, Oct. 13; Serial No. 628,875, published July 7, 1953. Class 46.

Reichard, Jeremiah, New York, to American Safety Razor Corporation, Brooklyn, N. Y. Safety-razors and razor-blades. 41,201, re-renewed Sept. 9, 1953. O. G. Oct. 13. Class 23.

Reichhold Chemicals, Inc., Detroit, Mich. Castor oil base plasticisers. 581,069, Oct. 13; Serial No. 640,306, published July 21, 1953. Class 6.

Reichhold Chemicals, Inc., Detroit, Mich. Polyester resins. 581,098, Oct. 13; Serial No. 642,048, published July 21, 1953. Class 6.

Re-Nu-It Corporation, assignor to Nu-Side Corporation, New York, N. Y. Resurfacing material. 580,903, Oct. 13; Serial No. 606,175, published Oct. 28, 1952. Class 12.

Resistant Lubricant Co. of America: *See*—
Schwager, Henry A., Jr.

Reverman Enterprises, Columbus, Ohio. Chemical compounds. 580,996, Oct. 13; Serial No. 634,860, published July 14, 1953. Class 6.

Rexall Drug Company: *See*—
United Drug Company.

Rice Growers Association of California, Sacramento, Calif. Rice. 300,038, renewed Dec. 26, 1953. O. G. Oct. 13. Class 46.

Rice Growers Association of California, Sacramento, Calif. Rice polish. 581,063, Oct. 13; Serial No. 640,009, published June 16, 1953. Class 46.

Rich, Klinger Aktiengesellschaft, Gumpoldskirchen, near Vienna, Austria. High pressure packings. 306,397, renewed Sept. 19, 1953. O. G. Oct. 13. Class 35.

Richardson, Andrew J., doing business as The-Onlee Float Ball Valve Co., Lubbock, Tex. Ball type float valves. 581,086, Oct. 13; Serial No. 641,330, published July 21, 1953. Class 13.

Robertshaw-Fulton Controls Company, Greensburg, Pa. Shaft seals for preventing leakage of fluid around movable shafts. 580,960, Oct. 13; Serial No. 628,010, published July 14, 1953. Class 35.

Romero, Miguel A., Sr., doing business as Santa Rita Medicine Co., Las Vegas, N. Mex. Eye drops, laxative compounds, stomachic appetizers, etc. 580,888, Oct. 13; Serial No. 572,209, published May 6, 1952. Class 18.

Rose, Robert E., doing business as Milk-O-Meter Co., Minneapolis, Minn. Baby milk bottle thermometers. 581,130, Oct. 13; Serial No. 634,268. Class 26.

Royal Rubber Company, The, Akron, Ohio. Textile carpets and carpeting. 581,083, Oct. 13; Serial No. 641,090, published July 14, 1953. Class 42.

Rust Craft Publishers: *See*—
United Printers and Publishers (Incorporated).

S. M. A. Corporation, Cleveland, Ohio, to American Home Products Corporation, doing business as Wyeth Laboratories, Division of American Home Products Corporation, New York, N. Y. Cod liver oil, solutions of carotene in oil, etc. 307,117, renewed Oct. 17, 1953. O. G. Oct. 13. Class 18.

Safeway Stores, Incorporated: *See*—
Edwards, Dwight, Company.

Saffell, Gene E., Minneapolis, Minn. Combination mailing envelopes and partially printed business statements. 580,929, Oct. 13; Serial No. 618,762, published June 16, 1953. Class 37.

Salsbury's, Dr., Laboratories, Charles City, Iowa. Veterinary preparations. 580,906, Oct. 13; Serial No. 608,188, published Sept. 9, 1952. Class 18.

Sams, Howard W., & Co., Inc., Indianapolis, Ind. Publication. 580,919, Oct. 13; Serial No. 614,010, published June 30, 1953. Class 38.

Sandy Hill Iron & Brass Works, The, Hudson Falls, N. Y. Periodical. 581,058, Oct. 13; Serial No. 639,782, published June 30, 1953. Class 38.

Santa Rita Medicine Co.: *See*—
Romero, Miguel A., Sr.

Sartori, Mario, Rome, Italy. Medicines for the relief and treatment of various diseases and disorders. 581,133, Oct. 13; Serial No. 637,161. Class 18.

Schulenburg, George F., doing business as Herald Products Company, St. Louis, Mo. Preparation for treating hosiery to prevent runs. 581,005, Oct. 13; Serial No. 635,886, published July 21, 1953. Class 6.

Schwager, Henry A., Jr., doing business as Resistant Lubricant Co. of America, Royal Oak, Mich. Sealing compound or lubricant. 580,947, Oct. 13; Serial No. 623,683, published June 30, 1953. Class 15.

Seamprufe Incorporated: *See*—
Aronson-Caplin Company, Inc.

Seaporcel Metals, Inc., Long Island City, N. Y. Insulated porcelain enamel panels. 581,003, Oct. 13; Serial No. 635,790, published July 21, 1953. Class 12.

Servomechanisms, Inc., Westbury, N. Y. Analog computers, accelerometers, and highly calibrated potentiometers. 581,064, Oct. 13; Serial No. 640,013, published June 23, 1953. Class 26.

Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc. Anticholinergic preparation. 581,053, Oct. 13; Serial No. 639,662, published July 7, 1953. Class 18.

Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc. Antibiotic preparation. 581,054, Oct. 13; Serial No. 639,663, published July 7, 1953. Class 18.

Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc. Anticholinergic preparation. 581,055, Oct. 13; Serial No. 639,665, published July 7, 1953. Class 18.

Sherman-Klove Company, The, Chicago, Ill. Socket wrenches, socket wrench sets, and sockets for wrenches. 318,718, Oct. 30, 1934. Republished Oct. 13. Class 23.

Shoemaker, Maurice O.: *See*—
Wright Farm & Hatchery.

Siegel Brothers, Kiki Maid Coats, Inc., New York, N. Y. Ladies' and misses' coats and suits. 383,615, Dec. 17, 1940. Canceled Sept. 11, 1953. O. G. Oct. 13. Class 39.

Skinner, William, & Sons, Holyoke, Mass., and New York, N. Y. Fabrics. 580,974, Oct. 13; Serial No. 630,735, published July 14, 1953. Class 42.

Slip Ease Products Co.: *See*—
Butterfield, George P.

Smith, Stanley D., doing business as Gift House, Aberdeen, S. Dak. Trading or merchandise stamps. 581,024, Oct. 13; Serial No. 638,018, published June 30, 1953. Class 38.

Snyder, Dora C., doing business as Center Products Co., Ilion, N. Y. Foot cream. 581,059, Oct. 13; Serial No. 639,787, published July 7, 1953. Class 18.

Sock-It Company: *See*—
Gibson, Rosena M.

Sock-It Company, Inc., The: *See*—
Gibson, Rosena M.

Solin Sporting Goods Company, Nek York, N. Y. Baseballs, baseball gloves, baseball bats, etc. 580,945, Oct. 13; Serial No. 623,085, published July 14, 1953. Class 22.

Specialloy, Inc., Chicago, Ill. Metals and alloys in the form of electrodes, anodes, etc. 581,123, Oct. 13; Serial No. 594,073. Class 14.

Sporting News Publishing Company, Inc., The, St. Louis, Mo. Newspaper columns. 581,031, Oct. 13; Serial No. 638,783, published June 30, 1953. Class 38.

Spurgeon Hosiery Corporation, Philadelphia, Pa. Ladies' hosiery. 581,062, Oct. 13; Serial No. 639,962, published June 30, 1953. Class 39.

Staley Milling Company, North Kansas City, Mo. Feed for animals. 581,000, Oct. 13; Serial No. 641,644, published July 7, 1953. Class 46.

Stampings Incorporated, Davenport, Iowa, assignor, by mesne assignments, to Cargo-Guard Company, Portland, Maine. Heaters for trucks, trailer vans, etc. 581,121–2, Oct. 13; Serial Nos. 585,301–2. Class 19.

Standard Blade Co., Inc.: *See*—
Standard Safety Razor Corporation.

Standard Safety Razor Corporation, Wilmington, Del., and East Norwalk, Conn., by Standard Blade Co., Inc., New York, N. Y. Razors and razor blades. 304,241, June 27, 1933. Republished Oct. 13. Class 23.

Standard Safety Razor Corporation, Wilmington, Del., and East Norwalk, Conn., by Standard Blade Co., Inc., New York, N. Y. Razors and razor blades. 304,301–2, June 27, 1933. Republished Oct. 13, 1953. Class 23.

Stern Brothers, New York, N. Y. Shoe racks and hat racks. 581,045, Oct. 13; Serial No. 639,511, published July 21, 1953. Class 13.

Stimpson, Edwin B., Company, Inc., Brooklyn, N. Y. Screws, washers, rivets, rivet crowns, etc. 580,886, Oct. 13; Serial No. 551,415, published July 14, 1953. Class 13.

Street, E. E., & Co., Inc., Chicago, Ill. Dry cleaning soap. 581,114, Oct. 13; Serial No. 643,565, published July 21, 1953. Class 52.

Sun Gold Gardens: *See*—
Johnson, Irene L.

Sunny Selly Inc., Los Angeles, Calif. Fresh vegetables. 581,108, Oct. 13; Serial No. 643,248, published June 30, 1953. Class 46.

Sunshine Biscuits, Inc.: *See*—
Loose-Wiles Biscuit Company.

Supreme Pants Co., Inc., New York, N. Y. Boys' pants. 580,940, Oct. 13; Serial No. 620,935, published June 30, 1953. Class 39.

Surfluoricide Co., The: *See*—
Emmer, J. Wilts.

Surgi Manufacturing Co., Joplin, Mo. Portable tree saw. 580,975, Oct. 13; Serial No. 630,812, published Apr. 28, 1953. Class 23.

Sweetman's Laboratories, Inc., Winnsboro, La., assignor to Hastogo Laboratories, Inc., Monroe, La. Liquid preparation to be added to the cylinders, gasoline tank, or crankcase of internal combustion engines for purposes of freeing sticking valves, removing carbon, etc. 580,912, Oct. 13; Serial No. 610,869, published Dec. 9, 1952. Class 52.

Tar-Gon Products, Inc., Chicago, Ill. Preparation to be used as a windshield glare eliminator. 581,067, Oct. 13; Serial No. 641,400, published July 14, 1953. Class 6.

Technology Instrument Corporation, Acton, Mass. Measuring instrument. 581,043, Oct. 13; Serial No. 639,448, published June 16, 1953. Class 26.

TeleVision Guide, Inc., New York, N. Y., to Triangle Publications, Inc., Philadelphia, Pa. Column in a periodical. 574,131, May 5, 1953. New certificate. O. G. Oct. 13. Class 38.

Testrite Instrument Co., Inc., New York, N. Y. Metal reflectors for photographic lamps. 580,915, Oct. 13; Serial No. 612,938, published May 12, 1953. Class 26.

Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y. Petroleum, asphalt oils, etc. 150,620, Jan. 3, 1922. Amended. O. G. Oct. 13. Class 15.

The-Onlee Float Ball Valve Co.: *See*—
Richardson, Andrew J.

Theon Company, Inc., The: *See*—
Flaster, Marcella.

Theon Company, The: *See*—
Flaster, Marcella.

Toledo Scale Company: *See*—
Toledo Scale Manufacturing Company.

Toledo Scale Manufacturing Company, to Toledo Scale Company, Toledo, Ohio. Weighing scales. 309,174, renewed Jan. 2, 1954. O. G. Oct. 13. Class 26.

Ton-Tex Corporation, Grand Rapids, Mich., and New York, N. Y. Transmission belting. 581,070, Oct. 13; Serial No. 640,312, published July 21, 1953. Class 35.

Tragasol Products Limited, Hooton, Wirral, England. Sizing and finishing preparations for use in manufacturing or processing textiles, etc. 581,037, Oct. 13; Serial No. 639,201, published July 14, 1953. Class 6.

Transit Van Corporation, Redwood City, Calif. Transferable non-self-propelled cargo containers adapted to be mounted on trailer trucks, railway flatcars, etc. 580,895, Oct. 13; Serial No. 594,734, published July 14, 1953. Class 19.

Triangle Publications, Inc.: *See*—
TeleVision Guide, Inc.

Tri-State Redning Co.: *See*—
Humko Co., The.

Tyzack, W. A., & Co., to W. A. Tyzack & Company Limited, Sheffield, England. Plow and beater plates, shear-blades, tobacco-knives, etc. 90,762, re-renewed Mar. 18, 1953. O. G. Oct. 13. Class 23.

Tyzack, W. A., & Company Limited: *See*—
Tyzack, W. A., & Co.

U-Neek Manufacturing Co.: *See*—
Chambers, Harry C.

Union Packing Co. (Canada) Ltd., Toronto, Ontario, Canada. Canned hams. 581,030, Oct. 13; Serial No. 638,673, published June 16, 1953. Class 46.

United Drug Company, Boston, Mass., to Rexall Drug Company, Los Angeles, Calif. Household rubber gloves. 304,543, renewed July 11, 1953. O. G. Oct. 13. Class 39.

United Elastic Corporation, Easthampton, Mass. Wide elastic fabrics. 580,987, Oct. 13; Serial No. 633,280, published July 14, 1953. Class 42.

United Printers and Publishers (Incorporated), doing business under the name Rust Craft Publishers, Boston, Mass. Greeting cards. 580,961, Oct. 13; Serial No. 632,055, published June 30, 1953. Class 38.

United States Playing Card Company, The, Cincinnati, Ohio. Playing cards. 580,951, Oct. 13; Serial No. 626,125, published July 7, 1953. Class 22.

United States Rubber Company, New York, N. Y. Woven textile fabric. 580,922, Oct. 13; Serial No. 615,915, published July 14, 1953. Class 42.

United States Rubber Company, New York, N. Y. Inner tubes. 581,028, Oct. 13; Serial No. 638,454, published July 21, 1953. Class 35.

United States Rubber Company, New York, N. Y. Pneumatic tires and inner tubes. 581,029, Oct. 13; Serial No. 638,505, published July 21, 1953. Class 35.

Upjohn Company, The, Kalamazoo, Mich. Lipotropic preparation. 581,056, Oct. 13; Serial No. 639,679, published July 7, 1953. Class 18.

Vanity Fair Mills, Inc.: *See*—
Marcus & Wiesen Inc.

Vaughan Company, Chicago, Ill. Electrically operated meat and bone cutting machines. 191,418, Nov. 11, 1924. Republished Oct. 13. Class 21.

Victaulic Company of America, Union, N. J. Flexible pipe couplings. 581,095, Oct. 13; Serial No. 641,875, published July 21, 1953. Class 13.

Wagner Fur, Inc., New York, N. Y. Furred skins. 556,904–5, Apr. 1, 1952. Canceled Sept. 11, 1953. O. G. Oct. 13. Class 1.

Warren Foundry & Pipe Corp., Phillipsburg, N. J. Cast iron pipe. 580,905, Oct. 13; Serial No. 608,185, published July 14, 1953. Class 13.

Waterman, L. E., Company, New York, N. Y., to Waterman Pen Company, Inc., Seymour, Conn. Writing inks. 305,496, renewed Aug. 15, 1953. O. G. Oct. 13. Class 11.

Waterman Pen Company, Inc.: *See*—
Waterman, L. E., Company.

Watkins, J. R., Company, The, Winona, Minn. Toilet soap. 424,321, Oct. 1, 1946. Republished Oct. 13. Class 52.

Wawak Company, Inc., Chicago, Ill. Woolen piece goods. 430,013, June 3, 1947. Republished Oct. 13. Class 42.

Weidner Canning Company: *See*—
Weidner, Charles J.

Weidner, Charles J., doing business under the name Weidner Canning Company, Plymouth, Ind. Pickles and pickle relish. 580,970, Oct. 13; Serial No. 630,247, published June 16, 1953. Class 46.

West End Brewing Co., The, Utica, N. Y. Malt beverages. 307,538, renewed Oct. 31, 1953. O. G. Oct. 13. Class 48.

Western Clock Co., Peru, to General Time Corporation, La Salle, Ill. Clocks and watches. 91,282, re-renewed Apr. 22, 1953. O. G. Oct. 13. Class 27.

Whelan, L. E., Co., The: *See*—
Hartford Element Company, The.

Whitman Publishing Company, Racine, Wis. Jigsaw and picture puzzles. 581,120, Oct. 13; Serial No. 646,836, published July 21, 1953. Class 22.

Wildroot Company Inc., Buffalo, N. Y. Cream hair dressing and wave set. 581,071, Oct. 13; Serial No. 640,315, published July 21, 1953. Class 51.

Willson Products, Inc., Reading, Pa. Sun glasses. 581,048, Oct. 13; Serial No. 639,600, published June 16, 1953. Class 26.

Willys Motors, Inc., assignee: *See*—
Willys-Overland Motors, Inc.

Willys-Overland Motors, Inc., assignor to Willys Motors, Inc., Toledo, Ohio. Automobiles and structural parts thereof. 580,968, Oct. 13; Serial No. 629,878, published July 21, 1953. Class 19.

Wilson Arts & Crafts: *See*—
Dietrich, Wilson G.

Windsor Pen Corp., New York, N. Y. Fountain pens, ball point pens, mechanical pencils and combinations thereof. 581,057, Oct. 13; Serial No. 639,684, published June 30, 1953. Class 37.

Wine & Spirit Vaults Limited, doing business as Malcolm Fraser & Co., to Malcolm Fraser & Co. Limited, London, England. Whisky and other potable distilled liquors. 305,816, renewed Aug. 22, 1953. O. G. Oct. 13. Class 49.

Wisconsin Wire Works, Appleton, Wis. Fourdrinier wire. 581,131, Oct. 13; Serial No. 636,162. Class 13.

Wittek Manufacturing Co., Chicago, Ill. Hose clamps. 581,080, Oct. 13; Serial No. 640,989, published July 14, 1953. Class 13.

Wohlworth, Louis A., doing business as Ohio Paint & Color Company, Cleveland, Ohio. Paint. 581,138, Oct. 13; Serial No. 641,110. Class 16.

Wright Farm & Hatchery, to M. O. Shoemaker, doing business as Wright Hatcheries, Peebles, Ohio. Live baby chicks. 292,364, renewed Mar. 15, 1952. O. G. Oct. 13. Class 1.

Wright Hatcheries: *See*—
Wright Farm & Hatchery.

Wyeth Laboratories, Division of American Home Products Corporation: *See*—
S. M. A. Corporation.

Young Foods, Inc., Danville, Ill. Nuts. 581,081, Oct. 13; Serial No. 640,991, published June 16, 1953. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Furred skins. Wagner Fur, Inc. 556,904–5, Apr. 1, 1952. Canceled Sept. 11, 1953. O. G. Oct. 13.

Leather, Sole. S. H. Frank & Company. 304,845. renewed July 18, 1953. O. G. Oct. 13.

Live baby chicks. Wright Farm & Hatchery. 292,364, renewed Mar. 15, 1952. O. G. Oct. 13.

CLASS 2

Cases for razors and razor parts. Kampfe Bros. 40,777, re-renewed July 14, 1953. O. G. Oct. 13.

CLASS 3

Billfolds. Buxton, Incorporated. 581,135, Oct. 13; Serial No. 637,809.

Device in the form of a flexible strap or band to facilitate the carrying of articles. H. G. Miles Limited. 301,438, renewed Feb. 28, 1953. O. G. Oct. 13.

CLASS 4

Buffing wheels. Automatic Buff Company. 580,884, Oct. 13; Serial No. 592,184, published July 21, 1953.

Cleaning and polishing preparation. S. C. Johnson & Son, Inc. 581,112, Oct. 13; Serial No. 643,491, published July 14, 1953.

Floor sweeping composition with incidental polishing properties. Kentile, Inc. 581,036, Oct. 13; Serial No. 639,176, published July 14, 1953.

Organopolysiloxane fluids for use as polishes and polish additives. Dow Corning Corporation. 581,078, Oct. 13; Serial No. 640,920, published July 21, 1953.

Polish, Automobile and furniture, and automobile touch-up enamel. Phillips Petroleum Company. 308,989, renewed Dec. 26, 1953. O. G. Oct. 13.

Polishing powder. H. C. Campbell. 581,019, Oct. 13; Serial No. 637,264, published July 7, 1953.

Razor strops. E. Morris Manufacturing Company. 580,884, Oct. 13; Serial No. 512,521, published July 7, 1953.

CLASS 5

Fiberglas scrim fabric impregnated with adhesive. Narmco, Inc. 580,954, Oct. 13; Serial No. 626,899, published June 16, 1953.

CLASS 6

Bleach, Powdered. Milner Products Company. 581,010, Oct. 13; Serial No. 636,243, published July 21, 1953.
Bronze powder. Atlantic Powdered Metals, Inc. 581,136, Oct. 13; Serial No. 638,565.
Carbonizing compounds; disinfectants; compounds for preventing oxidation, etc. E. F. Houghton & Co. 93,995, re-renewed Oct. 28, 1953. O. G. Oct. 13.
Castor oil base plasticizers. Reichhold Chemicals, Inc. 581,069, Oct. 13; Serial No. 640,306, published July 21, 1953.
Chemical composition. G. P. Butterfield. 580,963, Oct. 13; Serial No. 628,844, published July 6, 1953.
Chemical compounds. Reverman Enterprises. 580,996, Oct. 13; Serial No. 634,860, published July 14, 1953.
Coal tar colors. Ciba Limited. 581,097, Oct. 13; Serial No. 642,015, published July 21, 1953.
Compositions for application to interfaces of optical elements to form light absorbing films, etc. Northrop Aircraft, Inc. 581,107, Oct. 13; Serial No. 643,239, published July 14, 1953.
Dyestuff stripping agent. General Dyestuff Corporation. 581,106, Oct. 13; Serial No. 643,150, published July 21, 1953.
Fumigants, Grain. Pronto Products Co. 580,961, Oct. 13; Serial No. 628,051, published July 21, 1953.
Incense. Holiday Ranch, Inc. 581,113, Oct. 13; Serial No. 643,548, published July 21, 1953.
Insecticides, disinfectants, deodorants, etc. Chemical Manufacturing & Distributing Company. 444,698, June 24, 1952. Republished Oct. 13.
Liquid corrosion inhibitor. Cardinal Chemical, Inc. 581,105, Oct. 13; Serial No. 643,141, published July 21, 1953.
Plastic mix. Gering Products, Inc. 580,984, Oct. 13; Serial No. 632,367, published July 14, 1953.
Polyester resins. Reichhold Chemicals, Inc. 581,098, Oct. 13; Serial No. 642,048, published July 21, 1953.
Preparation for treating hosiery to prevent runs. G. F. Schulenburg. 581,005, Oct. 13; Serial No. 635,886, published July 21, 1953.
Preparation to be used as a windshield glare eliminator. Tar-Gon Products, Inc. 581,087, Oct. 13; Serial No. 641,400. published July 14, 1953.
Preparations for fireproofing wood, wood products, paper, etc. Flamort Chemical Co. 581,052, Oct. 13; Serial No. 639,627, published July 21, 1953.
Sizing and finishing preparations for use in manufacturing or processing textiles, etc. Tragasol Products Limited. 581,037, Oct. 13; Serial No. 639,201, published July 14, 1953.
Solution for making a master sheet out of paper or similar products to obtain reproductions therefrom. Columbia Ribbon & Carbon Manufacturing Company, Inc. 581,001, Oct. 13; Serial No. 635,684, published July 21, 1953.
Synthetic tanning extract. American Cyanamid & Chemical Corporation. 308,421, renewed Dec. 5, 1953. O. G. Oct. 13.
Textile treating compositions. Arkansas Company Inc. 580,997, Oct. 13; Serial No. 635,020, published July 14, 1953.
Vacuum diffusion pump fluids comprising chlorinated hydrocarbon oils. Eastman Kodak Company. 581,066, Oct. 13; Serial No. 640,111, published July 21, 1953.
Waterproofing composition. Gard Industries. 580,910, Oct. 13; Serial No. 609,721, published July 21, 1953.
Wood preservative, Liquid. Gordon Chemical Co., Inc. 580,930, Oct. 13; Serial No. 620,501, published July 21, 1953.

CLASS 10

Fertilizer concentrates, Soluble. Monsanto Chemical Company. 581,091, Oct. 13; Serial No. 641,684, published July 21, 1953.

CLASS 11

Inks, Writing. L. E. Waterman Company. 305,496, renewed Aug. 15, 1953. O. G. Oct. 13.

CLASS 12

Acoustic tile and sound absorbing baffles. Owens-Corning Fiberglas Corporation. 580,998, Oct. 13; Serial No. 635,148, published June 16, 1953.
Cementitious material. Cement-Gun Company, Inc. 308,005, Nov. 14, 1933. Republished Oct. 13.
Cementitious material. Colorcrete Industries, Incorporated. 580,914, Oct. 13; Serial No. 612,589, published Oct. 14, 1952.
Insulated porcelain enamel panels. Seaporcel Metals, Inc. 581,003, Oct. 13; Serial No. 635,790, published July 21, 1953.
Lime, cement, plaster, etc. Imperial Chemical Industries Limited. 580,896, Oct. 13; Serial No. 594,781, published July 14, 1953.
Putty. H. R. Hunt. 256,502, May 21, 1929. Republished Oct. 13.
Resurfacing material. Re-Nu-It Corporation. 580,903, Oct. 13; Serial No. 606,175, published Oct. 28, 1952.
Weather strip. W. J. Dennis & Company. 580,893, Oct. 13; Serial No. 590,866, published July 14, 1953.

CLASS 13

Cast iron pipe. Warren Foundry & Pipe Corp. 580,905, Oct. 13; Serial No. 608,185, published July 14, 1953.
Dispenser, Carbonated beverage. Modern Sales Company. 581,079, Oct. 13; Serial No. 640,949, published July 14, 1953.
Dispensers, Toothpaste. Mid-State Products Company. 580,992, Oct. 13; Serial No. 634,205, published July 14, 1953.
Door sheaves, Sliding, door tracks, door rollers, etc. Garden City Plating & Mfg. Co. 580,918, Oct. 13; Serial No. 613,841, published July 14, 1953.
Fluid separators. Centrifix Corporation. 235,267, Nov. 15, 1927. Republished Oct. 13.
Fluid separators. Centrifix Corporation. 442,791, May 31, 1949. Republished Oct. 13.
Flush tank balls. Radiator Specialty Company. 580,911, Oct. 13; Serial No. 610,631, published July 21, 1953.
Fountains, Poultry watering. The Harwood Co. 581,065, Oct. 13; Serial No. 640,041, published July 14, 1953.
Fourdrinier wire. Wisconsin Wire Works. 581,131, Oct. 13; Serial No. 636,162.
Hose clamps. Wittek Manufacturing Co. 581,080, Oct 13; Serial No. 640,989, published July 14, 1953.
Lazy Susans. National Plastic Corporation. 581,046, Oct. 13; Serial No. 639,544, published July 14, 1953.
Metal hollow ware ovens. The Everedy Company. 580,926, Oct. 13; Serial No. 617,438, published June 3, 1952.
Mirror supporting fixture. Market Metal Products. 581,023, Oct. 13; Serial No. 637,932, published July 14, 1953.
Packless expansion joints for pipe lines. American District Steam Company. 580,898, Oct. 13; Serial No. 599,409, published July 21, 1953.
Pipe couplings, Flexible. Victaulic Company of America. 581,095, Oct. 13; Serial No. 641,875, published July 21, 1953.
Rope clamps. American Hoist & Derrick Co. 581,026, Oct. 13; Serial No. 638,388, published July 14, 1953.
Screws, washers, rivets, rivet crowns, etc. Edwin B. Stimpson Company, Inc. 580,886, Oct. 13; Serial No. 551,415, published July 14, 1953.
Shoe racks and hat racks. Stern Brothers. 581,045, Oct. 13; Serial No. 639,511, published July 21, 1953.
Synthetic resin pipe. The Atlas Mineral Products Company of Pennsylvania. 581,089, Oct. 13; Serial No. 641,597, published July 21, 1953.
Table leveling glides. A. J. Matter Mfg. Co. 581,040, Oct. 13; Serial No. 639,382, published July 21, 1953.
Valves, Ball type float. A. J. Richardson. 581,086, Oct. 13; Serial No. 641,330, published July 21, 1953.

CLASS 14

Aluminum foil. D. H. Gannon. 581,044, Oct. 13; Serial No. 639,468, published July 14, 1953.
Castings of brass alloy. Doehler-Jarvis Corporation. 580,979, Oct. 13; Serial No. 630,996, published June 9, 1953.
Electric arc welding electrodes. Arcos Corporation. 580,944, Oct. 13; Serial No. 622,977, published July 14, 1953.
Metal stock, Ground flat. The Capewell Manufacturing Company. 580,980, Oct. 13; Serial No. 631,141, published July 14, 1953.
Metallic carbides and their alloys. Fried. Krupp Aktiengesellschaft. 304,773, renewed July 18, 1953. O. G. Oct. 13.
Metallic welding electrodes. Eutectic Welding Alloys Corporation. 581,084, Oct. 13; Serial No. 641,134, published July 14, 1953.
Metals and alloys in the form of electrodes, anodes, etc. Speciality, Inc. 581,123, Oct. 13; Serial No. 594,073.
Rolled carbon-bearing nickel anode bars. The International Nickel Company, Inc. 581,022, Oct. 13; Serial No. 637,826, published July 14, 1953.
Steel and iron plates, bars, sheet-steel, etc. Fried. Krupp Aktiengesellschaft. 92,767, re-renewed July 29, 1953. O. G. Oct. 13.
Tantalum, tungsten, molybdenum, and columbium; etc. Fansteel Metallurgical Corporation. 581,051, Oct. 13; Serial No. 639,623, published July 14, 1953.
Trailer hitches. H. C. Chambers. 580,967, Oct. 13; Serial No. 629,555, published July 14, 1953.

CLASS 15

Liquid preparation for lubricating, freeing, and preventing the freezing of keyholes, etc. Gold Eagle Products Co. 581,126, Oct. 13; Serial No. 611,087.
Oils, Lubricating; lubricating greases; tempering oils, etc. E. F. Houghton & Co. 94,638, re-renewed Dec. 23, 1953. O. G. Oct. 13.
Petroleum, asphalt oils, etc. The Texas Company. 150,620. Jan. 3, 1922. Amended. O. G. Oct. 13.
Sealing compound or lubricant. H. A. Schwager, Jr. 580,947, Oct. 13; Serial No. 623,683, published June 30, 1953.

CLASS 16

Paint. L. A. Wohlworth. 581,138, Oct. 13; Serial No. 641,110.
Paint, Artists' hand. W. G. Dietrich. 581,137, Oct. 13; Serial No. 638,903.
Water and wear resisting finish for interior walls, etc. The Marietta Paint & Color Co. 303,812, June 6, 1933. Republished Oct. 13.

CLASS 17

Tobacco, Plug, and cigarettes. Larus & Brother Company. 305,239, Aug. 8, 1933. Republished Oct. 13.

CLASS 18

Antibiotic preparation. Sharp & Dohme Incorporated. 581,054, Oct. 13; Serial No. 639,663, published July 7, 1953.
Anticholinergic preparation. Sharp & Dohme Incorporated. 581,053, Oct. 13; Serial No. 639,662, published July 7, 1953.
Anticholinergic preparation. Sharp & Dohme Incorporated. 581,055, Oct. 13; Serial No. 639,665, published July 7, 1953.
Antiseptic foot powder. The House of Stuart Incorporated. 580,902, Oct. 13; Serial No. 605,258, published July 7, 1953.
Blood anti-coagulant solutions. Don Baxter, Inc. 580,931, Oct. 13; Serial No. 620,565, published June 30, 1953.
Blood anti-coagulant solutions. Don Baxter, Inc. 580,932, Oct. 13; Serial No. 620,569, published June 30, 1953.
Blood anti-coagulant solutions. Baxter Laboratories, Inc. 580,935, Oct. 13; Serial No. 620,575, published June 30, 1953.
Blood anti-coagulant solutions. Baxter Laboratories, Inc. 580,936, Oct. 13; Serial No. 620,579, published June 30, 1953.
Cod liver oil, solutions of carotene in oil, etc. S. M. A. Corporation. 307,117, renewed Oct. 17, 1953. O. G. Oct. 13.
Dietary supplements. American Lecithin Co. Inc. 580,956, Oct. 13; Serial No. 627,659, published July 7, 1953.
Eye drops, laxative compounds, stomachic appetizers, etc. M. A. Romero, Sr. 580,888, Oct. 13; Serial No. 572,209, published May 6, 1952.
Fluids for parenteral use. Baxter Laboratories, Inc. 580,938, Oct. 13; Serial No. 620,583, published June 30, 1953.
Fluids for parenteral use, and solutions for parenteral therapy. Baxter Laboratories, Inc. 580,937, Oct. 13; Serial No. 620,581, published June 30, 1953.
Foot cream. D. C. Snyder. 581,059, Oct. 13; Serial No. 639,787, published July 7, 1953.
Foot preparation. Herb Juice-Penol Company, Inc. 367,555, May 23, 1939. Canceled July 29, 1953. O. G. Oct. 13.
Injectable estrogen-containing composition. Mattox and Moore, Inc. 580,950, Oct. 13; Serial No. 626,039, published July 7, 1953.
Insecticides, disinfectants, deodorants, etc. Chemical Manufacturing & Distributing Company. 444,698, June 24, 1952. Republished Oct. 13.
Lipotropic preparation. The Upjohn Company. 581,056, Oct. 13; Serial No. 639,679, published July 7, 1953.
Liquid preparation having tonic, diuretic, and other medicinal qualities. John T. Milliken & Company. 224,039, Feb. 15, 1927. Amended. O. G. Oct. 13.
Medical and pharmaceutical cough mixture. Hark Pharmacal Co. 581,134, Oct. 13; Serial No. 637,310.
Medicines for the relief and treatment of various diseases and disorders. M. Sartori. 581,133, Oct. 13; Serial No. 637,161.
Solution for preventing decay of the teeth. J. W. Emmer. 581,060, Oct. 13; Serial No. 639,925, published July 14, 1953.
Solutions containing vitamins or constituents thereof and solutions for parenteral therapy. Don Baxter, Inc. 580,933, Oct. 13; Serial No. 620,570, published June 30, 1953.
Solutions for parenteral use. Don Baxter, Inc. 580,934, Oct. 13; Serial No. 620,574, published June 30, 1953.
Veterinary preparations. Dr. Salsbury's Laboratories. 580,906, Oct. 13; Serial No. 608,188, published Sept. 9, 1952.
Water soluble base used in pharmaceutical preparations. Block Drug Company, Inc. 580,907, Oct. 13; Serial No. 608,913, published May 12, 1953.

CLASS 19

Automobiles and structural parts thereof. Willys-Overland Motors, Inc. 580,968, Oct. 13; Serial No. 629,878, published July 21, 1953.
Bicycles. Andrew Fisher Cycle Co., Inc. 581,004, Oct. 13; Serial No. 635,877, published July 14, 1953.
Boat kits. M. H. Penney. 581,118, Oct. 13; Serial No. 644,565, published July 21, 1953.
Cargo containers adapted to be mounted on trailer trucks, railway flatcars, etc., Transferable, non-self-propelled. Transit Van Corporation. 580,895, Oct. 13; Serial No. 594,734, published July 14, 1953.
Carriages and strollers, Baby. Atlas Baby Carriage Co., Inc. 580,983, Oct. 13; Serial No. 632,144, published July 14, 1953.
Drag links and tie rod ends for automotive vehicles. Barmatic Products Company. 580,909, Oct. 13; Serial No. 609,712, published July 14, 1953.
Hand operated feathering paddle for use at the stern of a boat. Armsco Industries, Inc. 581,124, Oct. 13; Serial No. 596,705.
Heaters for trucks, trailer vans, etc. Stampings Incorporated. 581,121-2, Oct. 13; Serial Nos. 585,301-2.
Vehicle tires, wheels, axles, etc. Fried. Krupp Aktiengesellschaft. 93,346, re-renewed Sept. 9, 1953. O. G. Oct. 13.
Wheel hubs, Wire. Casco Products Corporation. 581,115, Oct. 13; Serial No. 644,010, published July 7, 1953.

CLASS 21

Batteries, Storage. Phillips Petroleum Company. 308,807, renewed Dec. 19, 1953. O. G. Oct. 13.
Electrical elements, Replacement. The Hartford Element Company. 441,903, Jan. 25, 1949. New certificate. O. G. Oct. 13.
Electrically operated meat and bone cutting machines. Vaughan Company. 191,418, Nov. 11, 1924. Republished Oct. 13.

CLASS 22

Balloons, Rubber toy. American Anode Inc. 304,651, renewed July 11, 1953. O. G. Oct. 13.
Balloons, Rubber-toy. American Anode Inc. 304,652, renewed July 11, 1953. O. G. Oct. 13.
Balloons, Rubber toy. American Anode Inc. 304,654, renewed July 11, 1953. O. G. Oct. 13.
Baseball sets. Graton & Knight Company. 581,119, Oct. 13; Serial No. 646,664, published July 21, 1953.
Baseballs, baseball gloves, baseball bats, etc. Solin Sporting Goods Company. 580,945, Oct. 13; Serial No. 623,085, published July 14, 1953.
Fish lures, Artificial. Barbee Bait Company. 580,950, Oct. 13; Serial No. 627,994, published July 14, 1953.
Fishing rods, reels and reel cases, fishing lines, etc. Chas. F. Orvis Company, Inc. 580,991, Oct. 13; Serial No. 633,626, published July 21, 1953.
Fishing tackle. James Heddon's Sons. 581,012, Oct. 13; Serial No. 636,708, published July 21, 1953.
Liquid preparation which is put on live or artificial bait. Davis Manufacturing Co., Inc. 580,953, Oct. 13; Serial No. 626,609, published July 21, 1953.
Playing cards. The United States Playing Card Company. 580,951, Oct. 13; Serial No. 626,125, published July 7, 1953.
Puzzles, Jigsaw and picture. Whitman Publishing Company. 581,120, Oct. 13; Serial No. 646,836, published July 21, 1953.
Toy. R. M. Gibson. 304,964, renewed July 25, 1953. O. G. Oct. 13.
Toy. R. M. Gibson. 304,969, renewed July 25, 1953. O. G. Oct. 13.
Toy aluminum tea sets. Anodized. Aluminum Specialty Company. 580,976, Oct. 13; Serial No. 630,820, published July 14, 1953.
Toy replicas of wheel tractors, track-type tractors, bulldozers, etc. Caterpillar Tractor Co. 581,016, Oct. 13; Serial No. 637,111, published July 7, 1953.
Toys, Plastic. Plast-O-Matic Corporation. 581,100, Oct. 13; Serial No. 642,367, published July 21, 1953.

CLASS 23

Key and gang punches, manually or power operated numbering, slotting, punching machines, trimmers, dies, etc. The McBee Company. 580,885, Oct. 13; Serial No. 543,619, published May 5, 1953.
Machine-shafts, crank-shafts, straight shafts, etc. Fried. Krupp Aktiengesellschaft. 92,973, re-renewed Aug. 12, 1953. O. G. Oct. 13.
Motor-driven high speed centrifugal mixing apparatus. Premier Mill Corporation. 580,943, Oct. 13; Serial No. 621,421, published May 5, 1953.
Plow and beater plates, shear-blades, tobacco-knives, etc. W. A. Tyrack & Co. 90,762, re-renewed Mar. 18, 1953. O. G. Oct. 13.
Razors and razor blades. Continental Blade Corporation. 306,248, renewed Sept. 12, 1953. O. G. Oct. 13.
Razors and razor blades. Continental Blade Corporation. 306,875, renewed Oct. 3, 1953. O. G. Oct. 13.
Razors and razor blades. Standard Safety Razor Corporation. 304,241, June 27, 1933. Republished Oct. 13.
Razors and razor blades. Standard Safety Razor Corporation. 304,301-2, June 27, 1933. Republished Oct. 13.
Razors, Safety, and safety razor blades. American Safety Razor Corporation. 305,180, renewed Aug. 8, 1953. O. G. Oct. 13.
Safety-razors and razor-blades. J. Reichard. 41,201, renewed Sept. 9, 1953. O. G. Oct. 13.
Saw, Portable tree. Surel Manufacturing Co. 580,975, Oct. 13; Serial No. 630,812, published Apr. 28, 1953.
Saws. Henry Disston & Sons, Incorporated. 94,719, renewed Dec. 30, 1953. O. G. Oct. 13.
Saws. Henry Disston & Sons, Incorporated. 308,511, renewed Dec. 5, 1953. O. G. Oct. 13.
Saws. Henry Disston & Sons, Incorporated. 308,513, renewed Dec. 5, 1953. O. G. Oct. 13.

Tool bars, Cultivator. John Blue Company, Inc. 580,923, Oct. 13; Serial No. 616,542, published Apr. 28, 1953.
Tools, Hand and machine. Fried. Krupp Aktiengesellschaft. 308,108, renewed Nov. 21, 1953. O. G. Oct. 13.
Wrenches, Socket, socket wrench sets, and sockets for wrenches. The Sherman-Klove Company. 318,718, Oct. 30, 1934. Republished Oct. 13.

CLASS 24

Washing machines, Laundry, and laundry dryers. Marshall-Wells Company. 581,101, Oct. 13; Serial No. 642,677, published July 14, 1953.

CLASS 26

Complementary pairs of magnetized metallic indicators. H. A. Heise. 580,952, Oct. 13; Serial No. 626,248, published June 23, 1953.
Computers, Analog, accelerometers, and highly calibrated potentiometers. Servomechanisms, Inc. 581,064, Oct. 13; Serial No. 640,013, published June 23, 1953.
Electronic instrument which simultaneously registers the amplitude of vibration in linear displacement and the frequency of its occurence, etc. Lion Manufacturing, Inc. 580,917, Oct. 13; Serial No. 613,647, published June 16, 1953.
Glasses, Sun. Willson Products, Inc. 581,048, Oct. 13; Serial No. 639,600, published June 16, 1953.
Measuring instrument. Technology Instrument Corporation. 581,043, Oct. 13; Serial No. 639,448, published June 16, 1953.
Metal reflectors for photographic lamps. Testrite Instrument Co., Inc. 580,915, Oct. 13; Serial No. 612,938, published May 12, 1953.
Motion picture projectors, Sound accompanied. Bell & Howell Company. 581,050, Oct. 13; Serial No. 639,614, published June 16, 1953.
Photographic films and sensitized photographic papers. Dr. Edgar Gretener A. G. 581,061, Oct. 13; Serial No. 639,930, published June 23, 1953.
Scales, Weighing. Toledo Scale Manufacturing Company. 309,174, renewed Jan. 2, 1954. O. G. Oct. 13.
Solution feeding attachment for commercial can washers, bottle washers and the like. The Diversey Corporation. 580,916, Oct. 13; Serial No. 613,562, published June 16, 1953.
Spectacles, Magnifying. Armco Mercantile Co. 581,049, Oct. 13; Serial No. 639,608, published June 16, 1953.
Temperature-controlled valves, pressure operated and thermostatically operated valves, etc. Leslie Co. 580,899, Oct. 13; Serial No. 600,543, published May 5, 1953.
Thermometers, Baby milk bottle. R. E. Rose. 581,130, Oct. 13; Serial No. 634,268.
Thermostatically controlled instruments. Eastern Electric, Inc. 580,928, Oct. 13; Serial No. 618,630, published May 12, 1953.
Time controlled instruments. The Lux Clock Manufacturing Company, Inc. 436,634, Feb. 17, 1948. Republished Oct. 13.
Water softener control valves incorporating automatic timers. Elgin Softener Corporation. 581,125, Oct. 13; Serial No. 607,248.

CLASS 27

Clocks and range timers, Combination. The Lux Clock Manufacturing Company, Inc. 433,017, Sept. 23, 1947. Republished Oct. 13.
Clocks and watches. Western Clock Co. 91,282, renewed Apr. 22, 1953. O. G. Oct. 13.

CLASS 28

Watch bands. Jacques Kreisler Manufacturing Corporation. 581,104, Oct. 13; Serial No. 642,885, published June 9, 1953.

CLASS 30

Ceramic products, Various. The Haeger Potteries, Inc. 580,921, Oct. 13; Serial No. 615,829, published June 2, 1953.
China, Semivitreous. Quaker China of Salem, Inc. 581,032, Oct. 13; Serial No. 638,870, published June 9, 1953.
Dinnerware and tableware made of china. Noritake Co., Inc. 581,038-9, Oct. 13; Serial Nos. 639,235-6, published June 9, 1953.
Earthenware, porcelain or bone china dinnerware, decorative plates, etc. Doulton & Co., Limited. 580,990, Oct. 13; Serial No. 633,573, published June 2, 1953.
Flower boxes, vases, urns, etc., Severable. Colorcrete Industries, Incorporated. 580,913, Oct. 13; Serial No. 611,018, published Nov. 25, 1952.

CLASS 31

Freezer, Multiple-chamber ice cream. F. W. Boltz. 581,127, Oct. 13; Serial No. 618,440.

CLASS 33

Crystal table ware. "Minex" Centrala Eksportowo-Importowa Wytworow Przemyslu Mineralnego Przedsiebiorstwo Panstwowe. 580,971, Oct. 13; Serial No. 630,367, published June 9, 1953.
Glass specimen tube. Becton Dickinson and Company. 580,890, Oct. 13; Serial No. 577,472, published June 9, 1953.
Glassware. Futura Corporation. 581,017, Oct. 13; Serial No. 637,177, published June 9, 1953.

CLASS 34

Heating equipment. American Hydrotherm Corp. 523,426, Apr. 4, 1950. Amended. O. G. Oct. 13.

CLASS 35

Adjustable mechanical seal. Monogram Manufacturing Company. 580,889, Oct. 13; Serial No. 574,153, published July 21, 1953.
Belting, Leather. E. F. Houghton & Co. 308,473-4, renewed Dec. 5, 1953. O. G. Oct. 13.
Belting, Transmission. Ton-Tex Corporation. 581,070, Oct. 13; Serial No. 640,312, published July 21, 1953.
Brake linings. Brake Linings Limited. 304,849, renewed July 4, 1953. O. G. Oct. 13.
Gaskets, High vacuum. Eastman Kodak Company. 581,067, Oct. 13; Serial No. 640,113, published July 21, 1953.
Inner tubes. United States Rubber Company. 581,028, Oct. 13; Serial No. 638,454, published July 21, 1953.
Packings, High pressure. Rich. Klinger Aktiengesellschaft. 306,397, renewed Sept. 19, 1953. O. G. Oct. 13.
Pulley lagging made of rubber and textile material for use with flat belting. The B. F. Goodrich Company. 580,925, Oct. 13; Serial No. 616,766, published July 21, 1953.
Shaft seals for preventing leakage of fluid around movable shafts. Robertshaw-Fulton Controls Company. 580,960, Oct. 13; Serial No. 628,010, published July 14, 1953.
Tires, Pneumatic, and inner tubes. United States Rubber Company. 581,029, Oct. 13; Serial No. 638,505, published July 21, 1953.

CLASS 36

Cymbals. The Fred Gretsch Mfg. Co. 228,592, June 7, 1927. Canceled Dec. 10, 1951. O. G. Oct. 13.
Music tone reproducing keyboard instrument, Portable electronic. Jennings Musical Instruments Limited. 580,993, Oct. 13; Serial No. 634,596, published July 14, 1953.
Phonograph records, Grooved. A. S. Alberts. 580,941, Oct. 13; Serial No. 620,947, published July 14, 1953.

CLASS 37

Crayons. American Art Clay Company. 580,965, Oct. 13; Serial No. 628,987, published June 30, 1953.
Diaries. Carey Press Corporation. 580,977, Oct. 13; Serial No. 630,877, published June 30, 1953.
Mailing envelopes and partially printed business statements, Combination. G. E. Saffell. 580,929, Oct. 13; Serial No. 618,762, published June 16, 1953.
Merchandising tags and labels, Combined. H. P. Knoble. 351,588, Nov. 2, 1937. Canceled Sept. 11, 1953. O. G. Oct. 13.
Paper, Bond. American Paper & Pulp Co., Inc. 581,047, Oct. 13; Serial No. 639,545, published June 30, 1953.
Paper napkins. Fort Howard Paper Company. 581,073, Oct. 13; Serial No. 640,508, published June 30, 1953.
Pen points. The Parker Pen Company. 410,557, Dec. 5, 1944. Republished Oct. 13.
Pens, Ball point, fountain pens, mechanical pencils, etc. Ferber Corporation. 581,068, Oct. 13; Serial No. 640,155, published June 30, 1953.
Pens, Fountain. Markwell Manufacturing Co., Inc. 580,949, Oct. 13; Serial No. 625,208, published June 30, 1953.
Pens, Fountain, ball point pens, mechanical pencils and combinations thereof. Windsor Pen Corp. 581,057, Oct. 13; Serial No. 639,684, published June 30, 1953.
Tissue, Facial. M. Donovan. 580,969, Oct. 13; Serial No. 630,061, published June 16, 1953.
Tracing-paper. Keuffel & Esser Company. 40,582, renewed June 16, 1953. O. G. Oct. 13.

CLASS 38

Booklets, Tax computation. Paramount Publishing Company. 581,015, Oct. 13; Serial No. 637,076, published June 30, 1953.
Column in a periodical. TeleVision Guide, Inc. 574,181, May 5, 1953. New certicate. O. G. Oct. 13.
Decalcomanias, Ceramic. Commercial Decal, Inc. 580,994, Oct. 13; Serial No. 634,632, published Mar. 10, 1953.
Greeting cards. United Printers and Publishers (Incorporated). 580,981, Oct. 13; Serial No. 632,055, published June 30, 1953.
Magazine column. The New Yorker Magazine, Inc. 581,020, Oct. 13; Serial No. 637,892, published June 30, 1953.
Magazines, Comic. Magazine Publishers, Inc. 581,088, Oct. 13; Serial No. 641,455, published June 30, 1953.
Newspaper columns. The Sporting News Publishing Company, Inc. 581,031, Oct. 13; Serial 638,783, published June 30, 1953.
Newspapers. The Kansas City Star Company. 570,692, Feb. 17, 1953. Corrected. O. G. Oct. 13.
Periodical. The Sandy Hill Iron & Brass Works. 581,058, Oct. 13; Serial No. 639,782, published June 30, 1953.

Printed cloth and paper labels and printed paper tags. Metropolitan Label Co. 580,995, Oct. 13; Serial No. 634,796, published June 30, 1953.
Publication. Howard W. Sams & Co., Inc. 580,919, Oct. 13; Serial No. 614,010, published June 30, 1953.
Publication, Monthly. Byron Jackson Co. 581,006, Oct. 13; Serial No. 636,080, published June 30, 1953.
Publication, Periodical. American Colortype Company. 581,076, Oct. 13; Serial No. 640,899, published June 30, 1953.
Publication, Semi-yearly periodical. National Plumbing Stores Corp. 581,075, Oct. 13; Serial No. 640,750, published June 30, 1953.
Series of radio scripts, Periodically issued. R. Cunningham. 581,041, Oct. 13; Serial No. 639,395, published June 30, 1953.
Trading or merchandise stamps. S. D. Smith. 581,024, Oct. 13; Serial No. 638,018, published June 30, 1953.
Boots and shoes, Leather. P. W. Minor & Son. 40,815, July 28, 1903. Republished Oct. 13.

CLASS 39

Clothing for men, clothing for babies, clothing for boys, etc. Engel Mills. 580,901, Oct. 13; Serial No. 605,150, published June 30, 1953.
Clothing, Men's formal. R. Jacobs, Inc. 580,989, Oct. 13; Serial No. 633,366, published Feb. 24, 1953.
Coats and suits, Ladies' and misses'. Siegel Brothers, Kiki Maid Koats, Inc. 383,615, Dec. 17, 1940. Canceled Sept. 11, 1953. O. G. Oct. 13.
Dresses, Women's and children's. Cadillac Dress Corp. 580,887, Oct. 13; Serial No. 568,712, published July 29, 1952.
Girdles. Marcus & Wiesen Inc. 305,749, renewed Aug. 22, 1953. O. G. Oct. 13.
Gloves, Household rubber. American Anode Inc. 305,121, renewed Aug. 1 1953. O. G. Oct. 13.
Gloves, Household rubber. American Anode Inc. 305,735, renewed Aug 22, 1953. O. G. Oct. 13.
Gloves, Household rubber. United Drug Company. 304,543, renewed July 11, 1953. O. G. Oct. 13.
Handkerchiefs. The B. V. D. Company, Inc. 306,603, renewed Sept. 26, 1953. O. G. Oct. 13.
Hats and caps, Men's and women's. D. Ingram. 580,942, Oct. 13; Serial No. 620,965, published June 30, 1953.
Hosiery. Davenport Hosiery Mills, Inc. 580,978, Oct. 13; Serial No. 630,992, published June 30, 1953.
Hosiery, Ladies'. Spurgeon Hosiery Corporation. 581,062, Oct. 13; Serial No. 639,962, published June 30, 1953.
Hosiery, Women's full fashioned. Anquin Company. 580,986, Oct. 13; Serial No. 632,820, published June 30, 1953.
Knitted apparel, Men's, women's and children's. Forstmann Woolen Company. 580,939, Oct. 13; Serial No. 620,845, published June 30, 1953.
Pants, Boys'. Supreme Pants Co., Inc. 580,940, Oct. 13; Serial No. 620,935, published June 30, 1953.
Shirts, Men's dress. L. Miller. 354,815, Feb. 22, 1938. Canceled Sept. 11, 1953. O. G. Oct. 13.
Shoes. The Florsheim Shoe Company. 305,602, renewed Aug. 22, 1953. O. G. Oct. 13.

CLASS 42

All cotton sports denim, a fabric. McCampbell & Company, Inc. 580,962, Oct. 13; Serial No. 628,363, published July 14, 1953.
Blankets. Pepperell Manufacturing Company. 581,094, Oct. 13; Serial No. 641,860, published July 14, 1953.
Carpets and carpeting, Textile. The Royal Rubber Company. 581,083, Oct. 13; Serial No. 641,090, published July 14, 1953.
Carpets, Textile. Duraloom Carpet Mills, Inc. 581,092, Oct. 13; Serial No. 641,703, published July 14, 1953.
Cotton linings. Chicopee Manufacturing Corporation. 580,920, Oct. 13; Serial No. 615,624, published July 14, 1953.
Fabric, Woven textile. United States Rubber Company. 580,922, Oct. 13; Serial No. 615,915, published July 14, 1953.
Fabrics. Samuel Chapman, Inc. 580,957, Oct. 13; Serial No. 627,733, published July 14, 1953.
Fabrics. William Skinner & Sons. 580,974, Oct. 13; Serial No. 630,735, published July 14, 1953.
Fabrics, Knitted. Princeton Knitting Mills, Inc. 581,033, Oct. 13; Serial No. 638,974, published July 14, 1953.
Fabrics, Textile. Comptoir de l'Industrie Cotonniere, Etablissements Boussac, Société à Responsabilité Limitée. 581,042, Oct. 13; Serial No. 639,417, published July 14, 1953.
Fabrics, Textile. Comptoir des Textiles Artificiels. 580,985, Oct. 13; Serial No. 632,662, published July 14, 1953.
Fabrics, Textile. Deering, Milliken & Co., Inc. 581,000, Oct. 13; Serial No. 635,350, published July 14, 1953.
Fabrics, Textile. Jeff Goldstein, Inc. 581,093, Oct. 13; Serial No. 641,721, published July 14, 1953.
Fabrics, Textile. Newnan Cotton Mills. 581,085, Oct. 13; Serial No. 641,148, published July 14, 1953.
Fabrics, Waterproofed and water-repellent textile. The Landers Corporation. 418,689, Jan. 8, 1946. Amended. O. G. Oct. 13.
Fabrics, Wide elastic. United Elastic Corporation. 580,987, Oct. 13; Serial No. 633,280, published July 14, 1953.
Piece goods. Goodman & Theise, Inc. 580,927, Oct. 13; Serial No. 618,576, published July 14, 1953.
Piece goods, Rayon. Aronson-Caplin Company, Inc. 306,330, renewed Sept. 12, 1953. O. G. Oct. 13.
Piece goods, Woolen. Wawak Company, Inc. 430,013, June 3, 1947. Republished Oct. 13.
Tablecloths and bedspreads. Quaker Lace Company. 581,002, Oct. 13; Serial No. 635,718, published July 14, 1953.

CLASS 44

Artificial teeth. American Porcelain Tooth Company Ltd. 581,008, Oct. 13; Serial No. 636,191, published July 21, 1953.
Hearing aids, Electronic. The Maico Company, Incorporated. 581,025, Oct. 13; Serial No. 638,304, published July 21, 1953.
Prophylactics. P. and M. Distributing Company. 580,999, Oct. 13; Serial No. 635,176, published July 14, 1953.
Surgeon's rubber gloves. American Anode Inc. 304,533-4, renewed July 11, 1953. O. G. Oct. 13.
Surgeon's rubber gloves. American Anode Inc. 304,536, renewed July 11, 1953. O. G. Oct. 13.

CLASS 45

Beverages and syrups, etc., Nonalcoholic, nóncereal and maltless. Orange-Crush Company. 304,477, renewed July 14, 1953. O. G. Oct. 13.
Beverages, Carbonated. C. C. Porter. 92,121, June 17, 1913. Republished Oct. 13.
Beverages, Non-alcoholic, maltless. California Crushed Fruit Corporation. 288,155, Oct. 20, 1931. Republished Oct. 13.

CLASS 46

Bakery products. International Minerals & Chemical Corporation. 581,096, Oct. 13; Serial No. 641,927, published July 21, 1953.
Beef, Frozen chopped. Handi Foods Company, Inc. 546,459, Aug. 7, 1951. Canceled Sept. 11, 1953. O. G. Oct. 13.
Biscuits, Bird. E. A. Bach. 581,018, Oct. 13; Serial No. 637,232, published June 30, 1953.
Biscuits, cakes, and cookies. Loose-Wiles Biscuit Company. 91,099, re-renewed Apr. 15, 1953. O. G. Oct. 13.
Butter. The Borden Company. 581,027, Oct. 13; Serial No. 638,398, published July 7, 1953.
Candy. E. J. Brach & Sons. 581,109, Oct. 13; Serial No. 643,276, published June 30, 1953.
Candy. E. J. Brach & Sons. 581,110, Oct. 13; Serial No. 643,277, published July 7, 1953.
Candy. The Great Atlantic and Pacific Tea Company. 581,099, Oct. 13; Serial No. 642,347, published July 7, 1953.
Candy. Mars, Incorporated. 308,958, renewed Dec. 26, 1953. O. G. Oct. 13.
Canned dog food. M. Cormier. 581,011, Oct. 13; Serial No. 636,345, published June 16, 1953.
Canned, fresh, and fresh frozen fish. Columbia River Packers Association, Inc. 581,074, Oct. 13; Serial No. 640,671, published July 7, 1953.
Canned hams. Union Packing Co. (Canada) Ltd. 581,030, Oct. 13; Serial No. 638,673, published June 16, 1953.
Canned peas. Theo. H. Davies & Co., Ltd. 280,185, Feb. 10, 1931. Republished Oct. 13.
Canned pineapple juice. The John G. Paton Company, Inc. 581,103, Oct. 13; Serial No. 642,835, published June 30, 1953.
Canned soups; mustard; canned baked beans, etc. G. F. Heublein & Bro., Inc. 581,007, Oct. 13; Serial No. 636,128, published June 30, 1953.
Canned vegetables, canned mushrooms, canned prepared spaghetti, etc. National Retailer-Owned Grocers, Inc. 580,891, Oct. 13; Serial No. 584,146, published June 16, 1953.
Canned vegetables, tomato puree, canned pumpkin, etc. The Fleming Co., Incorporated. 581,140, Oct. 13; Serial No. 645,759.
Cheese. Foodville Inc. 580,908, Oct. 13; Serial No. 609,292, published Feb. 10, 1953.
Chocolate, candy, cocoa, and mustard. D. Chirardelli Co. 205,776, Nov. 17, 1925. Amended. O. G. Oct. 13.
Coffee. Dwight Edwards Company. 307,815, renewed Nov. 7, 1953. O. G. Oct. 13.
Coffee and tea. Peter Reeves Markets, Inc. 580,964, Oct. 13; Serial No. 628,875, published July 7, 1953.
Dates, Fresh, and fresh citrus fruit. I. L. Johnson. 373,678, Dec. 19, 1939. Republished Oct. 13.
Eggs, Fresh. Daniel Feed and Seed Co. 581,014, Oct. 13; Serial No. 636,882, published July 7, 1953.
Feed for animals. Staley Milling Company. 581,090, Oct. 13; Serial No. 641,644, published July 7, 1953.
Feed for hogs. Pillsbury Mills, Inc. 581,132, Oct. 13; Serial No. 637,080.
Feeds, Formula mixed. Northern Milling Company. 580,958, Oct. 13; Serial No. 627,829, published July 7, 1953.

Flour, White wheat. The Northwestern Elevator & Mill Co. 580,892, Oct. 13; Serial No. 588,449, published July 7, 1953.
Food coating. J. H. Hobson Company. 581,034–5, Oct. 13; Serial Nos. 639,051–2, published July 7, 1953.
Food, Dog. Elna Brands, Inc. 581,117, Oct. 13; Serial No. 644,398, published July 7, 1953.
Food flavoring material, Concentrated. Flavor Corporation of America. 580,966, Oct. 13; Serial No. 629,161, published May 26, 1953.
Fruits, Fresh citrus. Murphy Ranch Company. 581,021, Oct. 13; Serial No. 637,784, published June 16, 1953.
Grapes, Fresh. Hoak Packing Company, Inc. 580,988, Oct. 13; Serial No. 633,364, published July 7, 1953.
Ice cream. S. H. Perry. 305,282, renewed Aug. 8, 1953. O. G. Oct. 13.
Jams, jellies, fruit preserves, etc. Greenwich Preserving Co., Inc. 580,972–3, Oct. 13; Serial Nos. 630,708–9, published June 16, 1953.
Lard, Hydrogenated. The Humko Co. 580,955, Oct. 13; Serial No. 627,508, published June 16, 1953.
Nuts. Young Foods, Inc. 581,081, Oct. 13; Serial No. 640,991, published June 16, 1953.
Nuts, Unshelled and shelled, baked, salted and unsalted. Bake-O-Nuts, Incorporated. 581,128, Oct. 13; Serial No. 622,478.
Oranges and grapefruit, Fresh. Milne-O'Berry Packing Co. Inc. 581,013, Oct. 13; Serial No. 636,856, published July 7, 1953.
Peanuts, Shelled salted, shelled salted assorted nut meats, etc. Atlantic Commission Co. Inc. 581,102, Oct. 13; Serial No. 642,795, published June 30, 1953.
Pickles and pickle relish. C. J. Weidner. 580,970, Oct. 13; Serial No. 630,247, published June 16, 1953.
Rice. Rice Growers Association of California. 309,038, renewed Dec. 26, 1953. O. G. Oct. 13.
Rice polish. Rice Growers Association of California. 581,063, Oct. 13; Serial No. 640,009, published June 16, 1953.
Salt. Colonial Salt Company. 41,371, re-renewed Oct. 27, 1953. O. G. Oct. 13.
Syrup. A. E. Iles Company. 580,982, Oct. 13; Serial No. 632,087, published July 7, 1953.
Tea concentrate, Sassafras. F. A. Lower. 581,009, Oct. 13; Serial No. 636,240, published July 7, 1953.
Vegetables, Fresh. Sunny Sally Inc. 581,108, Oct. 13; Serial No. 643,248, published June 30, 1953.

CLASS 48

Beverages, Malt. The West End Brewing Co. 307,338, renewed Oct. 31, 1953. O. G. Oct. 13.

CLASS 49

Whisky. M. W. Gloag. 306,490, renewed Sept. 19, 1953. O. G. Oct. 13.
Whisky. Pennsylvania Distilling Co., Inc. 308,777, renewed Dec. 19, 1953. O. G. Oct. 13.
Whisky and other potable distilled liquors. Wine & Spirit Vaults Limited. 305,816, renewed Aug. 22, 1953. O. G. Oct. 13.

CLASS 51

Astringent powder and astringent cream. Dearborn Supply Company. 581,077, Oct. 13; Serial No. 640,917, published July 14, 1953.
Cleansing cream, cleansing lotion, dry complexion cream, etc. The House of Stuart, Incorporated. 580,900, Oct. 13; Serial No. 605,033, published July 21, 1953.
Cosmetics and toilet preparations. C. Nilson. 581,082, Oct. 13; Serial No. 641,080, published July 21, 1953.
Face cream. Bonne Bell Inc. 581,072, Oct. 13; Serial No. 640,437, published July 14, 1953.
Hair coloring, Home. Bymart-Tintair, Inc. 580,904, Oct. 13; Serial No. 607,659, published June 30, 1953.
Hair dressing and wave set, Cream. Wildroot Company Inc. 581,071, Oct. 13; Serial No. 640,315, published July 21, 1953.
Nail polish. M. Flaster. 312,491, May 1, 1934. Republished Oct. 13.
Shaving cream. Richard Hudnut. 304,481, renewed July 11, 1953. O. G. Oct. 13.
Tonics, Hair, bay rum, skin cream, etc. Lesma Products Co. Inc. 305,014, renewed July 25, 1953. O. G. Oct. 13.

CLASS 52

Cleaner. J. W. Moore. 580,948, Oct. 13; Serial No. 624,348, published July 21, 1953.
Cleaner, cleanser and detergent, Sudsing. The Procter & Gamble Company. 581,139, Oct. 13; Serial No. 645,073.
Cleanser for copper, stainless steel, etc., Chemical. The Reaction Products Co. 580,897, Oct. 13; Serial No. 598,865, published July 21, 1953.
Detergent, Chemical. Oil Recovery Chemicals. 581,129, Oct. 13; Serial No. 629,315.
Detergents. The Betco Corporation. 581,111, Oct. 13; Serial No. 643,402, published July 14, 1953.
Detergents. Diadust Corporation. 580,924, Oct. 13; Serial No. 616,591, published July 14, 1953.
Insecticides, disinfectants, deodorants, etc. Chemical Manufacturing & Distributing Company. 444,695, June 24, 1952. Republished Oct. 13.
Liquid preparation to be added to the cylinders, gasoline tank, or crankcase of internal combustion engines for purposes of freeing sticking valves, removing carbon, etc. Sweetman's Laboratories, Inc. 580,912, Oct. 13; Serial No. 610,869, published Dec. 9, 1952.
Pickling compounds for removing scale from steel. E. F. Houghton & Co. 309,034, renewed Dec. 26, 1953. O. G. Oct. 13.
Soap, Dry cleaning. R. R. Street & Co., Inc. 581,114, Oct. 13; Serial No. 643,565, published July 21, 1953.
Soap, Toilet. The J. R. Watkins Company. 424,321, Oct. 1, 1946. Republished Oct. 13.
Suds for dishes and free rinse. Norsan Products, Inc. 581,116, Oct. 13; Serial No. 644,340, published July 21, 1953.
Washing compound. Diamond Alkali Company. 580,946, Oct. 13; Serial No. 623,651, published July 21, 1953.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 13TH DAY OF OCTOBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Allwein, Aloysius F., Philadelphia, Pa. assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Pressure gauge. Re. 23,723, Oct. 13.
Brown, Charles A., St. Louis County, assignor, by mesne assignments, to International Oil Burner Company, St. Louis, Mo. Multiple gaseous fuel burner and secondary air feed baffle. Re. 23,721, Oct. 13.
Du Pont, E. I., de Nemours and Company, assignee: *See*— Pike, Ralph E.
International Oil Burner Company, assignee: *See*— Brown, Charles A.
Minneapolis-Honeywell Regulator Company, assignee: *See*— Allwein, Aloysius F.
Pike, Ralph E., Flint, Mich., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Translucent metallic enamel and a process of making it. Re. 23,722, Oct. 13.
Radio Corporation of America, assignee: *See*— Seabert, John D.
Seabert, John D., Haddon Heights, N. J., assignor to Radio Corporation of America. Immersible electrodynamic loudspeaker. Re. 23,724, Oct. 13.

LIST OF PLANT PATENTEES

Boerner, Eugene S., assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 1,222, Oct. 13.
Hahn, Sylvan F., Pittsburgh, Pa. Sansevieria plant. 1,220, Oct. 13.
Hahn, Sylvan F., Pittsburgh, Pa. Sansevieria plant. 1,221, Oct. 13.
Jackson & Perkins Company, assignee: *See*— Boerner, Eugene S. Verschuren, Hendrikus A. M.
Verschuren, Hendrikus A. M., Hapa, Netherlands, assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 1,2223, Oct. 13.

LIST OF DESIGN PATENTEES

Better Packages, Inc., assignee: *See*— Krueger, Theodore H.
Bloss, Frederick J., Pasadena, Calif. Toy talking device. 170,564, Oct. 13.
Carol, Mary: *See*— Leonard, Nita, and Carol.
Castorani, Francesco P., Exton, assignor to Quaker Lace Company, Philadelphia, Pa. Tablecloth. 170,565, Oct. 13.
Castorani, Francesco P., Exton, assignor to Quaker Lace Company, Philadelphia, Pa. Tablecloth. 170,566, Oct. 13.
Castorani, Francesco P., Exton, assignor to Quaker Lace Company, Philadelphia, Pa. Tablecloth. 170,567, Oct. 13.
Coro, Inc., assignee: *See*— Katz, Adolph.
Davis, John E., Sherman Oaks, Calif., assignor to Revere Camera Company, Chicago, Ill. Stereoscopic camera. 170,568, Oct. 13.
Del Mas, Christy M., assignor to M. P. Grace, New York, N. Y. Coin holder and auto visor clip combination. 170,569, Oct. 13.
Essex, Evelyn H., Glenmont, assignor to F. C. Huyck & Sons, Rensselaer, N. Y. Toy animal figure. 170,570, Oct. 13.
Fulop, Charles, Cleveland, Ohio. Bolt. 170,571, Oct. 13.
Grace, Michael P., assignee: *See*— Del Mas, Christy M.
Hart, Farel, St. Peterbsurg, Fla. Pharmacy display globe. 170,572, Oct. 13.
Hennessy, Robert E., Summit, N. J., assignor to National Distillers Products Corporation, New York, N. Y. Decanter. 170,573, Oct. 13.
Hickey, John W., Long Island City, N. Y. Passbook bank. 170,574, Oct. 13.
Huyck, F. C., & Sons, assignee: *See*— Essex, Evelyn H.
Hyman, Edgar C., Co., Inc., assignee: *See*— Nicouline, Vsevolode.
Jepson, Ivar, Oak Park, assignor to Sunbeam Corporation, Chicago, Ill. Combination cooker and deep fat fryer. 170,575, Oct. 13.
Johnson, Imogene H., Tulsa, Okla. Automobile. 170,576, Oct. 13.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Link chain for a bracelet or the like. 170,577, Oct. 13.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Link chain for a necklace or the like. 170,578, Oct. 13.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 170,579, Oct. 13.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 170,580, Oct. 13.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 170,581, Oct. 13.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 170,582, Oct. 13.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 170,583, Oct. 13.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 170,584, Oct. 13.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Link chain for a bracelet or the like. 170,585, Oct. 13.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Link chain for a necklace or the like. 170,586, Oct. 13.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 170,587, Oct. 13.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 170,588, Oct. 13.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 170,589, Oct. 13.
Kelchel, Joseph J., Lehighton, Pa. Stocking. 170,590, Oct. 13.
Krueger, Theodore H., Stratford, Conn., assignor to Better Packages, Inc. Machine for taking finger-prints. 170,591, Oct. 13.
Lasar, Lionel, Lynbrook, N. Y. Sock or similar article. 170,592, Oct. 13.
Lasar, Lionel, Lynbrook, N. Y. Sock or similar article. 170,593, Oct. 13.
Leonard, Nita, and M. Carol, Chicago, Ill. Syringe and douche container. 170,594, Oct. 13.
Lewis, Arnold L., Los Angeles, Calif. Combination hair curler and comb. 170,595, Oct. 13.
Lipman, Herman, New York, N. Y. Dress ensemble. 170,596, Oct .13.
Lyon, George A., Detroit, Mich. Wheel cover member or similar article. 170,597, Oct. 13.
National Distillers Products Corporation, assignee: *See*— Hennessy, Robert E.
Neumann, Vera, Ossining, N. Y. Scarf. 170,598, Oct. 13.
Neumann, Vera, Ossining, N. Y. Scarf. 170,599, Oct. 13.
Neumann, Vera, Ossining, N. Y. Scarf. 170,600, Oct. 13.
Nicouline, Vsevolode, Milan, Italy, assignor to Edgar C. Hyman Co., Inc., New York, N. Y. Scarf. 170,601, Oct. 13.
O'Hare, Theresa C., Quincy, Mass. Medallion or similar article. 170,602, Oct. 13.
Pennington, Charles W., Union, N. J. Combined brush and shoehorn. 170,603, Oct. 13.
Petry, John, New York, assignor to Raylite Electric Corp., Bronx, N. Y. Music box Christmas ornament. 170,604, Oct. 13.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a necklace or the like. 170,605, Oct. 13.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a bracelet or the like. 170,606, Oct. 13.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or the like. 170,607, Oct. 13.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Bracelet or the like. 170,608, Oct. 13.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or the like. 170,609, Oct. 13.
Quaker Lace Company, assignee. *See*—
Castorani, Francesco P.
Raylite Electric Corp., assignee: *See*—
Petry, John.
Revere Camera Company, assignee: *See*—
Davis, John E.
Sebel, David, London, England. Child's bicycle. 170,610, Oct. 13.
Sharp, John S., Lido Beach, N. Y. Combined window handle and push plate for a door. 170,611, Oct. 13.
Shepler, James T., North Hollywood, Calif. Service man's chest. 170,612, Oct. 13.
Stack, Cedric C., Elwood, Ind. Frame of an outdoor baby seat. 170,613, Oct. 13.
Sunbeam Corporation, assignee: *See*—
Jepson, Ivar.
Thomson, Clytie A., Roanoke, Va. Vanity bench or similar article. 170,614, Oct. 13.
Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.
Troha, Edward, Miami, Fla. Combined jars and rack therefor. 170,615, Oct. 13.
Yarger, Milton E., Morgantown, W. Va. Combined adjustable lamp stand and table. 170,616, Oct. 13.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 13TH DAY OF OCTOBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A B Svenska Flaktfabriken, assignee: *See*—
Broberg, Georg K. J.
Asero Manufacturing Co., assignee: *See*—
Augspurger, Luther S., and Hasse.
Abbott Laboratories, assignee: *See*—
Turner, Milton L., and McGrew.
Weston, Arthur W., and Sommers.
Abelson, Robert C., Chattanooga, Tenn., assignor to Radio Corporation of America. Synchronizing system. 2,655,556, Oct. 13.
Achner, Martin, Munich, Germany. Infrared ray, indirectly heating heat bath. 2,655,155, Oct. 13.
Achs, Nicholas, Detroit, Mich. Refrigerator apparatus. 2,655,419, Oct. 13.
Acme Protection Equipment Company, assignee: *See*—
Glidden, Galen M.
Adams, Cecil E., and E. H. Born, assignors to The Denison Engineering Company, Columbus, Ohio. Reducing valve. 2,654,975, Oct. 13.
Adams, Fred M., Shreveport, La. Animal alarm scratching device. 2,655,122, Oct. 13.
Adams, Jack J., assignor to The Dow Chemical Company, Midland, Mich. Emulsifying polymerizable compounds and effecting polymerization with the emulsions. 2,655,496, Oct. 13.
Adglo, Inc., assignee: *See*—
Harrison, George R.
Aerojet-General Corporation, assignee: *See*—
Wolfe, Charles M., Shultise, and Grow.
Ager, Ronald; Miami Beach, Fla. Apparatus for applying cementious finish. 2,654,935, Oct. 13.
Agriculture, United States of America as represented by the, Secretary of, assignee: *See*—
Laundgren, Harold P., and Fong.
Aircraft-Marine Products Inc., assignee: *See*—
Asaff, Annis G.
Air Force, United States of America as represented by the Secretary of the, assignee: *See*—
Eckert, Ernst R. G., and Zobel.
Aktiebolaget Atlas Diesel, assignee: *See*—
Danielsson, Jan P.
Aktiebolaget Bofors, assignee: *See*—
Aldrin, Henry W., and Gerdin.
Palsson, Lennard P.
Aktiebolaget Elektrolux, assignee: *See*—
Bilde, Tord E. D., and Hultberg.
Hultberg, Rolf B. J.
Kogel, Wilhelm G.
Aktiebolaget Separator, assignee: *See*—
Hytte, Robert P. L.
Alden, Milton, Wellesley, Mass. Recorder. 2,655,427, Oct. 13.
Aldrin, Henry W., and S. G. Gerdin, assignors to Aktiebolaget Bofors, Bofors, Sweden. Loading mechanism for guns. 2,655,079, Oct. 13.
Alertronic Corporation, assignee: *See*—
Bagno, Samuel M.
Allen, Arthur C., assignor to Stewart-Warner Corporation, Chicago, Ill. Windshield cleaner. 2,654,907, Oct. 13.
Allen, George M., Swarthmore, and J. W. Pedlow, Chester, Pa., assignors to American Viscose Corporation, Wilmington, Del. Method and apparatus for liquid treating yarn traveling in a helical path. 2,655,429, Oct. 13.
Allen, Harry W., Dayton, Ohio. Waterproof and pressureproof connector. 2,655,638, Oct. 13.
Allen, Horace C., Princeton, and R. C. Ballard, Trenton, N. J., assignors to Radio Corporation of America. Zero check or calibrating system for pulse altimeters. 2,655,651, Oct. 13.
Allen, Leslie J.: *See*—
Davison, Alan, and Allen.
Allen, Louis N., Jr., Short Hills, N. J., and T. P. Forbath, assignors to Chemical Construction Corporation, New York, N. Y. Sulfuric acid production by absorption. 2,655,431, Oct. 13.
Allen, Nora J., Highland Creek, Ontario, Canada, assignor, by mesne assignments, to Coats & Clark Inc. Article of hosiery and making the same. 2,655,020, Oct. 13.
Allgaier Werkzeugbau G. m. b. H., assignee: *See*—
Hiltter, Ulrich.
Allied Chemical & Dye Corporation, assignee: *See*—
Kise, Mearl A.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Campbell, Richard D.
Charley, Walter G.
Sillers, Thomas G. A.
Allis, Louis Company, The, assignee: *See*—
Wieseman, Theodore R.
Almond, John R., assignor to The Midland Steel Products Company, Cleveland, Ohio. Gear shifting mechanism. 2,655,042, Oct. 13.
Almquist, Herman J., Modesto, Calif. Bleaching process for eggs. 2,655,449, Oct. 13.
American Box Board Company, assignee: *See*—
McClure, Nicholas, and Stacy.
American Cyanamid Company, assignee: *See*—
Cooper, Hal B. H., and Medcalf.
Hardy, William B., and Lecher.
Kropa, Edward L., and Malmberg.
Pidacks, Charles, and Starbird.
Price, John A.
Scalera, Mario, and Westlake.
American Metal Company Ltd., The, assignee: *See*—
Anderson, Philip K.
American Optical Company, assignee: *See*—
Barnes, Robert B., and Fraser.
Bennett, Alva H.
Lightburn, Robert A., and Palmer.
American Speedlight Corporation, assignee: *See*—
Parker, Harry L.
American Steel Foundries, assignee: *See*—
Bachman, Fred E.
Baselt, Walter H.
Simanek, Edward J.
Tack, Carl E., and Casey.
American Viscose Corporation, assignee: *See*—
Allen, George M., and Pedlow.
Ames, John B., Selma, Ala. Sausage package. 2,655,450, Oct. 13.
Amyx, Elmer, Cincinnati, and J. Kramer, Reading, Ohio, assignors, by mesne assignments, to The International Paper Box Machine Company. Score breaker. 2,655,082, Oct. 13.
Anaya, Martinez, Carlos, Mexico City, Mexico. Mounting for pictures, mirrors, and the like. 2,655,330, Oct. 13.
Andersen, Andrew W., Babylon, N. Y. Mounting and casing for scales. 2,655,367, Oct. 13.
Anderson, Frederick E., Elizabeth, W. Va., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Cutting machine for plastic sheeting. 2,655,213, Oct. 13.
Anderson, Philip K., Rahway, N. J., assignor to The American Metal Company Ltd., New York, N. Y. Producing copper oxychloride. 2,655,432, Oct. 13.
Anderson Products, Inc., assignee: *See*—
Ferguson, Warren T.
Anderson, Vernon H., Hermosa Beach, Calif. Drill pipe wiper. 2,654,906, Oct. 13.
Anderson, Walter A., Bridgeport, Conn., assignor to Underwood Corporation, New York, N. Y. Item retaining mechanism for accounting machines. 2,655,812, Oct. 13.
Anetsberger Brothers, Inc., assignee: *See*—
Whitehead, Dean, and Anetsberger.
Anetsberger, Joseph F.: *See*—
Whitehead, Dean, and Anetsberger.
Annen, Robert, assignor to Roulements a Billes Miniatures S. A., Bienne, Switzerland. Lubricating device. 2,655,416, Oct. 13.
Archer, James M.: *See*—
Hoen, Kenneth H., and Archer.
Archer, Ruby E., administratrix de bonis non: *See*—
Hoen, Kenneth H., and Archer.
Arco Company, The, assignee: *See*—
Kanning, Eugene W., and Hart.
Arkell Safety Bag Company, assignee: *See*—
Drew, Willis P.
Armbruster, Ludwig, Irvington, N. J., assignor to Forstner Chain Corporation. Watch bracelet end connector. 2,654,934, Oct. 13.
Armstrong, Harold, El Paso, Tex. Optical sighting device. 2,655,076, Oct. 13.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Ellis, Grenville B.
Arnot Sleeper Corporation, assignee: *See*—
Stevens, Clifford B.
Arvey Corporation, assignee: *See*—
Kleiman, Morton.
Asaff, Annis G., Watertown, Mass., assignor to Aircraft-Marine Products Inc., Harrisburg, Pa. Electrical connector having a mercury amalgam coating on its inner surface. 2,655,641, Oct. 13.

Ashton, Thomas R.: *See*—
Cuttell, John R., and Ashton.

Askue, Albert R., Euclid, assignor to The Cleveland Trencher Company, Cleveland, Ohio. Crumbing mechanism for excavating machines. 2,654,966, Oct. 13.

Astell Laboratory Service Company Limited, assignee: *See*—
Cuttell, John R., and Ashton.

Ateliers de Construction Oerlikon, assignee: *See*—
Boninsegni, Renato.

Atkins, Earle R., Whittier, Calif. High-temperature and pressure packing gland. 2,655,391, Oct. 13.

Atlantic Refining Company, The, assignee: *See*—
Nevison, John A.

Atlas Imperial Diesel Engine Co., assignee: *See*—
Laxo, Ed.

Augspurger, Luther S., and D. F. Hasse, assignors to Aaero Manufacturing Co., Rockford, Ill. Tank closure fastener. 2,655,397, Oct. 13.

Austin, Benjamin L.: *See*—
Baker, Reuben C., and Austin.

Automatic Telephone & Electric Company Limited, assignee: *See*—
Davison, Alan, and Allen.

Ayres, Robert J., Los Angeles, and D. G. Gumperts, North Hollywood, Calif., said Gumpertz assignor to said Ayres. Courtesy warning device for motor vehicles. 2,655,642, Oct. 13.

Babcock & Wilcox Company, The, assignee: *See*—
Langvand, Ivar L.

Babiskin, Sidney, New York, N. Y. Refrigerator with rotatable shelf. 2,655,421, Oct. 13.

Bachman, Fred E., St. Louis, Mo., assignor to American Steel Foundries, Chicago, Ill. Disk brake. 2,655,236, Oct. 13.

Baechli, George, New Philadelphia, Ohio, assignor to Joy Manufacturing Company, Pittsburgh, Pa. Swivel for conveyer troughs. 2,655,254, Oct. 13.

Bagnell, Edgar W., Glendale, Calif., assignor, by mesne assignments, to Johnston Testers, Inc., Houston, Tex. Flow regulating device. 2,655,217, Oct. 13.

Bagno, Samuel M., Astoria, N. Y., assignor to Alertronic Corporation. Method and apparatus for detecting motion in a confined space. 2,655,645, Oct. 13.

Baker Oil Tools, Inc., assignee: *See*—
Baker, Reuben C., and Austin.

Baker Perkins Limited, assignee: *See*—
Woodward, Stanley.

Baker, Reuben C., Coalinga, and B. L. Austin, Long Beach, assignors to Baker Oil Tools, Inc., Vernon, Calif. Positive shutoff ported casing apparatus. 2,655,216, Oct. 13.

Baldanza, Nicholas T., Rutherford, assignor, by mesne assignments, to Columbia Protektosite Co., Inc., Carlstadt, N. J. Art of and apparatus for molding brushes. 2,655,409, Oct. 13.

Baldwin Rubber Company, assignee: *See*—
McDonald, Angus.

Ballard, Randall C.: *See*—
Allen, Horace C., and Ballard.

Banes, Fred W., Westfield, W. P. Fitz-Gerald, Elizabeth, and J. F. Nelson, Rahway, N. J., assignors to Standard Oil Development Company. Sulfated alcohol detergents from reaction product of primary monohydric alcohols with ethylene. 2,655,525, Oct. 13.

Bankauf, William F., East Paterson, N. J., assignor to Hewitt-Robins Incorporated, Buffalo, N. Y. Reversible training idler. 2,655,251, Oct. 13.

Barbaro, Anthony F., Glendale, Calif. Apparatus for dispensing fluid. 2,655,286, Oct. 13.

Barcus, Edward L.: *See*—
Michel, Clarence A., Mead, Diedring, and Barcus.

Barer, David, assignee: *See*—
Force, Albert J., Jr.

Barnes, George W., Jr., Clifton Heights, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electric control circuit and recorder. 2,655,426, Oct. 13.

Barnes, Marion W., Wilmette, assignor to Universal Oil Products Company, Chicago, Ill. Heating of fluids. 2,655,136, Oct. 13.

Barnes, Robert B., Stamford, and W. A. Fraser, Ridgefield, Conn., assignors to American Optical Company, Southbridge, Mass. Glasses, compositions thereof, articles embodying said glasses, and making and using the same. 2,655,452, Oct. 13.

Baroch, Charles T.: *See*—
Hilliard, Robert V., and Baroch.

Bartleson, John D., Cleveland, and M. H. Campbell, Cleveland Heights, assignors to The Standard Oil Company, Cleveland, Ohio. Mineral lubricating oil containing an anticorrosive agent and an antioxidant detergent agent. 2,655,477, Oct. 13.

Barton, Gerald D., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Well formation packer assembly for measuring gas-oil ratios. 2,655,038, Oct. 13.

Barusch, Maurice R., Richmond, and R. Y. Mixer, Los Angeles, assignors to California Research Corporation, San Francisco, Calif. Diesel fuel oil. 2,655,440, Oct. 13.

Baselt, Walter H., assignor to American Steel Foundries, Chicago, Ill. Brake beam with fixed head and guide. 2,655,234, Oct. 13.

Beavin, Lewis R. Oklahoma City, Okla. Automobile heating and cooling apparatus. 2,655,349, Oct. 13.

Bebinger, Charles N., New Philadelphia, Ohio, assignor to Joy Manufacturing Company. Material loading apparatus. 2,655,246, Oct. 13.

Bechler, André, Moutier, Switzerland. Guard device for machine tools. 2,655,067, Oct. 13.

Beckley, Sherman D., assignee: *See*—
Niemann, Henry F.

Belford, Dale, assignee: *See*—
Thompson, Thomas F.

Bell & Howell Company, assignee: *See*—
Townsley, Malcolm G.

Bell, John E.: *See*—
Marchant, Francis C. I., and Bell.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Burton, Everett T.
Callahan, Vincent T., and Fry.
Ebers, Jewell J.
Malthaner, William A., and Vaughan.
Shockley, William.
Valdes, Leopoldo B.

Belsky, Charles, Detroit, Mich. Puzzle. 2,655,382, Oct. 13.

Benander, George B., Oaklawn, R. I., and G. R Lawson, Abington, Mass., assignors to General Electric Company. Electrical connector with insulation piercing means contacting the conductors of electric cords. 2,655,639, Oct. 13.

Bendix Aviation Corporation, assignee: *See*—
Digby, James J.
Lauricella, John W., and Hagen.
Neild, William G.
Peterson, John B.
Rossire, Francis H. S.
Seifried, Paul E.
Winkler, Albert H.

Bennett, Alva H., Kenmore, N. Y., assignor to American Optical Company, Southbridge, Mass. Microscope with means for modifying contrast in optical images. 2,655,077, Oct. 13.

Benson, Ary A., Detroit, Mich. Brake construction. 2,655,237, Oct. 13.

Bentley, John F., Roscommon, Mich. Freight car door lock. 2,655,371, Oct. 13.

Berge, Ralph I., Dayton, Ohio. Controlled damping servo mechanism. 2,654,999, Oct. 13.

Berk, Kenneth E.: *See*—
Hott, Ion V. K., and Berk.

Besag, Ernst, Streetly, and T. D. G. Wintle, Birmingham, assignors to J. A. Crabtree & Co. Limited, Walsall, England. Means for mounting magnets or the like within switch casings. 2,655,622, Oct. 13.

Beyer, Herbert G., Baltimore, Md. Ice shaving machine. 2,655,318, Oct. 13.

Bielfeldt, Paul W., Harvey, Ill., assignor to Whiting Corporation. Heat exchanger. 2,655,347, Oct. 13.

Bierlein, Carl A., Cleveland, Ohio, assignor to General Motors Corporation, Detroit, Mich. Pump priming. 2,655,139, Oct. 13.

Bilde, Tord E. D., and R. B. J. Hultberg, assignors to Aktiebolaget Elektrolux, Stockholm, Sweden. Apparatus for washing clothes and centrifugally extracting liquid therefrom. 2,655,023, Oct. 13.

Birbaum, Lester W., assignor to La Belle Industries, Inc., Oconomowoc, Wis. Safety device for doorknob locks. 2,655,398, Oct. 13.

Bishop, Charles A., and T. F. Reed, Mount Lebanon, Pa., assignors to United States Steel Corporation. Tank reactor. 2,655,436, Oct. 13.

Blanchard, Donn C., Miami, assignor to E. L. Denison, North Miami, Fla. Weather seal for jalousie windows. 2,654,921, Oct. 13.

Blaw-Knox Company, assignee: *See*—
Sarosdy, Louis J.

Blodgett, G. S., Co., Inc., The, assignee: *See*—
Neuls, Frederick C.

Bloomer Bros. Company, assignee: *See*—
Inman William H., and Holmes.

Bohaboy, Edward J., Berwyn, and L. A. Pojman, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Control for material working machines. 2,655,240, Oct. 13.

Bond, Orson H.: *See*—
Wright, William E., and Bond.

Boninsegni, Renato, Zurich, assignor to Ateliers de Construction Oerlikon, Zurich-Oerlikon, Switzerland. Gas turbine combustion chamber. 2,654,996, Oct. 13.

Borcherts, Herman F., Allison Park, Pa. Carburetor for internal-combustion engines. 2,655,356, Oct. 13.

Borda, Carlos J., Bogota, Columbia. Adjustable key. 2,655,029, Oct. 13.

Borg-Warner Corporation, assignee: *See*—
Schanzlin, Ernest H.

Born, Ellis H.: *See*—
Adams, Cecil E., and Born.

Böttcher, Paul, Hamburg-Grossflottbek, Germany. Differential gear for motor-driven vehicles. 2,655,055, Oct. 13.

Bourne, William G., Acton, London, assignor to Rotax Limited, London, England. Electrical switching apparatus. 2,655,568, Oct. 13.

Bowman, Robert S.: *See*—
Stevens, Donald R., and Bowman.

Braun, Leo, assignor to Dominion Bridge Company Limited, Montreal, Quebec, Canada. Welding machine. 2,655,585, Oct. 13.

Bray, Frederick H.: *See*—
Hartley, George C., Bray, and Hough.

Briggs & Stratton Corporation, assignee: *See*—
Jacobi, Edward N.

Brigthman, William S., St. Petersburg, Fla. Dress shield. 2,654,888, Oct. 13.

Briney, James W., assignee: *See*—
Briney, Ottis R., Jr.

Briney, Ottis R., Jr., Pontiac, Mich., assignor of one-half to J. W. Briney. Machine tool spindle. 2,655,414, Oct. 13.

Briney, Ottis R., Jr., Pontiac, Mich., assignor of one-half to J. W. Briney. Ball bearing. 2,655,415, Oct. 13.

Bristol Aeroplane Company Limited, assignee: *See*—
Marchant, Francis C. I. and Bell.
Owner, Frank M.

Broberg, Georg K. J., Solna, assignor to A B Svenska Flaktfabriken, Stockholm, Sweden. Deflector for ventilating grills. 2,655,093, Oct. 13.

Brodeske, John J., Joliet, Ill. Dump car for inclined tracks. 2,655,276, Oct. 13.

Brooks, John D.: *See*—
Holtsclaw, John B., and Brooks.

Brown, James W., Elizabeth, and C. E. Jahnig, Red Bank, N. J., assignors to Standard Oil Development Company. Residuum coking and cracking. 2,655,464, Oct. 13.

Brown, Joseph D., Eastchester, N. Y., assignor to Poloron Products, Inc. Picnic jug. 2,655,255, Oct. 13.

Brown, Theophilus, assignor to Deere & Company, Moline, Ill. Wheel and axle assembly for variable tread vehicles. 2,655,410, Oct. 13.

Brown, William E., D. C. Redick, and C. E. McWilliams, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Switch. 2,655,570, Oct. 13.

Brucker, Walter A., Miami, Fla. Bookkeeping mechanism. 2,655,390, Oct. 13.

Brundrett, George A.: *See*—
Funkhouser, Mearick, and Brundrett.

Brüning, Eberhard, Leverkusen-Bayerwerk, D. Delfs, Leverkusen, and G. Spielberger, Leverkusen-Bayerwerk, assignors to Farbenfabriken Bayer, Leverkusen, Germany. Manufacture of α,α-dimethylbenzylhydroperoxide. 2,655,545, Oct. 13.

Bryner, Fred, assignor to The Dow Chemical Company, Midland, Mich. Production of alkylphenols. 2,655,547, Oct. 13.

Buchanan Steel Products Corporation, assignee: *See*—
Mills, Edward L., and Donahue.

Buccicone, Dario, Gary, Ind. Metal sheet lapping apparatus and method. 2,655,248, Oct. 13.

Buckland, Bruce O., and C. S. Rice, Schenectady, N. Y., assignors to General Electric Company. Gas turbine rotor arrangement. 2,655,307, Oct. 13.

Budd Company, The, assignee: *See*—
Buyse, Edwin K.
Eksergian, Carolus L.

Bundy Tubing Company, assignee: *See*—
Payne, Arthur W.

Burchenal, Charles H., assignor to Cambridge Tile Manufacturing Company, Cincinnati, Ohio. Making blended tile. 2,654,912, Oct. 13.

Burger, Martin, Morris, Ill., assignor to General Package Corporation. Carton setup machine. 2,655,081, Oct. 13.

Burrell, Ellis, Rochester, N. Y., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Spin-testing device. 2,655,033, Oct. 13.

Burroughs, Howard N., Clarksville, Iowa. Mercury switch. 2,655,579, Oct. 13.

Burroughs Wellcome & Co. (U. S. A.) Inc., assignee: *See*—
Phillips, Arthur P., and Castillo.

Burton, Everett T., Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Semiconductor circuit element. 2,655,625, Oct. 13.

Buyse, Edwin K., St. Clair Shores, Mich., assignor to The Budd Company, Philadelphia, Pa. Disk brake mechanism. 2,655,230, Oct. 13.

Byron, Anthony J., Carnegie, Pa. Self-disengaging lift hook. 2,655,400, Oct. 13.

C-O-Two Fire Equipment Company, assignee: *See*—
Ensminger, Harry.

Calcraft Company, assignee: *See*—
Smith, Keith J.

Caldwell, Boyce H., Decatur, Ga. Banker's note and collateral indexing file. 2,655,156, Oct. 13.

California Institute Research Foundation, assignee: *See*—
Du Mond, Jesse W. M.

California Research Corporation, assignee: *See*—
Barusch, Maurice R., and Mixer.
Lewis, Allen H., and Stayner.
Walstrom, John E.

Callahan, Vincent T., Englewood, and L. D. Fry, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Power supply apparatus for alternately supplying a load. 2,655,603, Oct. 13.

Callahan, Vincent T., Englewood, and L. D. Fry, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Supervisory alarm system. 2,655,646, Oct. 13.

Cambridge Instrument Company, Inc., assignee: *See*—
Wood, Harvey W.

Cambridge Tile Manufacturing Company, assignee: *See*—
Burchenal, Charles H.

Caminati, Carlo, assignor to Tubcor International, Paris, France. Connection for scaffoldings, shelves, racks, and like structures. 2,655,394, Oct. 13.

Campbell, Milton H.: *See*—
Bartleson, John D., and Campbell.

Campbell, Richard D., Hartland, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Manufacture of impellers and the like. 2,654,943, Oct. 13.

Campbell, Thomas A., assignor to Stewart-Warner Corporation, Chicago, Ill. Farm bucket pump and booster gun. 2,655,287, Oct. 13.

Candee, Zenas P., Watertown, assignor to The Waterbury Farrel Foundry & Machine Company, Inc., Waterbury, Conn. Flexible power transmission coupling. 2,655,013, Oct. 13.

Cantor, Jacob J., Los Angeles, Calif. Vacuum breaker. 2,655,171, Oct. 13.

Cardwell Westinghouse Company, assignee: *See*—
Tucker, Herbert E.

Caretto, Louis, Lynbrook, N. Y., assignor of 33⅓% to R. Henderson, Summit, N. J. Dispenser for condiments or the like. 2,655,288, Oct. 13.

Carmack, George B.: *See*—
Simon, Otis W., and Carmack.

Carpenter, Arley D.: *See*—
Carpenter, John A. and A. D.

Carpenter, John A. and A. D., Los Angeles, Calif. Band clamp lock. 2,655,332, Oct. 13.

Carrick, Virgil P., and W. B. Cates, High Point, N. C. Drive means for double-ended socket wrenches. 2,655,083, Oct. 13.

Carroll, Ellsworth W., Redwood City, J. W. Edgemond, Jr., Los Altos, and H. J. Jespersen, Menlo Park, assignors to S & W Fine Foods, Inc., San Francisco, Calif. Cherry orientator. 2,655,247, Oct. 13.

Carter Carburetor Corporation, assignee: *See*—
Hayden, Arthur A.
Szwargulski, Alex N., and Larson.

Casady, Philip M. and R. R., Los Angeles, Calif. Apparatus for cleaning hypodermic needles. 2,655,160, Oct. 13.

Casady, Richard R.: *See*—
Casady, Philip M. and R. R.

Case, Rogers, Orange, N. J. Line transposition bracket with reinforcing gussets. 2,655,553, Oct. 13.

Casey, William J., III: *See*—
Tack, Carl E., and Casey.

Cash, George, Sandpoint, Idaho. Insect catcher for automobiles. 2,655,404, Oct. 13.

Castillo, Julio C.: *See*—
Phillips, Arthur P., and Castillo.

Catching, Walter L., Jr., Birmingham, Ala. Adjustable layout and construction jig for awning ends and the like. 2,655,188, Oct. 13.

Cates, Walter B.: *See*—
Carrick, Virgil P., and Cates.

Celanese Corporation of America, assignee: *See*—
Strickler, Allen, and Teeple.

Cepon, Rudolph J., assignor to Fansteel Metallurgical Corporation, North Chicago, Ill. Selenium rectifier. 2,655,626, Oct. 13.

Chalfin, Benjamin: *See*—
Chalfin, Philip and B.

Chalfin, Philip, Eatontown, N. J., and B. Chalfin, Philadelphia, Pa. Coin-controlled card displaying and vending machine. 2,655,242, Oct. 13.

Chambers Corporation, assignee: *See*—
Phares, Thomas E.

Chambers, Torrence H., Washington, D. C. Keying system. 2,655,595, Oct. 13.

Chapman, Frederick W., Highland Park, assignor to General Motors Corporation, Detroit, Mich. Frequency modulated torsional vibration analyser. 2,655,036, Oct. 13.

Chapman, John H.: *See*—
Evans, Ronald M., and Chapman.

Charley, Walter G., La Cresent, Minn., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Tool mounting. 2,655,088, Oct. 13.

Chauvin, Wilbrod A., Albuquerque, N. Mex. Cable pulling machine. 2,655,633, Oct. 13.

Chemical Construction Corporation, assignee: *See*—
Allen, Louis N., Jr., and Forbath.

Chester, Allan E., Highland Park, assignor to Poor & Company, Chicago, Ill. Chromium electroplating. 2,655,471, Oct. 13.

Chisholm, Gilbert G., Lucan, Ontario, assignor to Ferros Metals Research Company Limited, Toronto, Ontario, Canada. Ore pulp concentrator. 2,655,263, Oct. 13.

Choldun Manufacturing Corporation, assignee: *See*—
Dunn, Henry M., and Oles.

Cier, Harry E.: *See*—
Schutze, Henry G., and Cier.

Clapp, Edwin A.: *See*—
Schreiner, Norman G., and Clapp.

Clark, Donald L., assignor to Stromberg-Carlson Company, Rochester, N. Y. Erasing head for magnetic recording. 2,655,562, Oct. 13.

Clark, James D., Longview, Wash. Production of fibrous elements from woody material. 2,655,189, Oct. 13.

Clark, John W., Washington, D. C. Apparatus for treating carbonaceous material. 2,655,470, Oct. 13.

Clark, Joseph L., Brooklyn, N. Y., assignor to The Lufkin Rule Company, Saginaw, Mich. Detachable tape measure. 2,655,324, Oct. 13.

Clark, Lawrence A., Coalinga, Calif. Tire moving appliance. 2,655,341, Oct. 13.

Clark, Philip B., Stroudsburg, Pa., assignor to McGraw Electric Company, Milwaukee, Wis. Light projector for airport lighting. 2,655,591, Oct. 13.

Clark, Stephen J., Cheshire, Conn. Cosmetic container. 2,655,261, Oct. 13.

Clarke, William W.: *See*—
Zademach, Erich R., and Clarke.

Clerc, Jean, Detroit, Mich. Combined gift box and greeting card carrier. 2,655,260, Oct. 13.

Cleveland Trencher Company, The, assignee: *See*—
Askue, Albert R.

Clingan, Irvine C., assignor to Eastern Stainless Steel Corporation, Baltimore, Md. Oxide removing bath. 2,655,481, Oct. 13.

Clintsman, De Witt C., Watertown, N. Y. Automatic infinitely variable power transmission. 2,655,056, Oct. 13.

Cluett, Peabody & Co., Inc., assignee: *See*—
Ransom, John B.

Coats & Clark Inc., assignee: *See*—
Allen, Nora J.

Cobb, Leland D., Forestville, Conn., assignor to General Motors Corporation, Detroit, Mich. Demountable seal. 2,655,393, Oct. 13.

Cole, Earl S., and H. D. Vanderlip, assignors to Kellogg Company, Battle Creek, Mich. Bag pallet loader. 2,655,271, Oct. 13.

Cole, Richard W., Silver Spring, Md., assignor to the United States of America as represented by the Secretary of the Navy. Mechanical oscillation damper. 2,655,049, Oct. 13.

Coleman, William E., Pleasant Hills Borough, Pa., assignor to United States Steel Corporation. Control unit for pinhole detectors. 2,655,620, Oct. 13.

Colgate-Palmolive-Peet Company, assignee: *See*—
Ledgett, Lowell A.
Malkemus, John D.

Collins, Howard W., assignor to Tectum Corporation, Newark, Ohio. Forming wood wool panels. 2,655,458, Oct. 13.

Colton, Frank B., assignor to G. D. Searle & Co., Chicago, Ill. Estradienes. 2,655,518, Oct. 13.

Columbia Protektosite Co., Inc., assignee: *See*—
Baldanza, Nicholas T.

Columbia Ribbon and Carbon Manufacturing Company, Inc., assignee: *See*—
Newman, Douglas A.

Connell, Lawrence H., Detroit, Mich. Apparatus for magnetic recording. 2,655,561, Oct. 13.

Connell, Lawrence H., Detroit, Mich. Magnetic reproducing service for automobiles. 2,655,563, Oct. 13.

Consolidated Vultee Aircraft Corporation, assignee: *See*—
Savard, Arthur J.

Continental Can Company, Inc., assignee: *See*—
Maier, Curtis E.

Continental Elastic Corporation, assignee: *See*—
Dexter, Robert G.

Cook, George R.: *See*—
Manteuffel, Allan, Cook, and Gilson.

Cooper, Hal B. H., and E. C. Medcalf, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Separating predominantly aromatic hydrocarbons from predominantly saturated hydrocarbons by extractive distillation. 2,655,467, Oct. 13.

Cooper, James H., Grosse Pointe Park, assignor to McCord Corporation, Detroit, Mich. Tube construction. 2,655,181, Oct. 13.

Coopersmith, Rudolph, Clayton, Mo. Folding frame for sofa beds. 2,654,896, Oct. 13.

Cope, Arthur C., Belmont, Mass., assignor to Merck & Co., Inc. Preparation of mono-alkyl or -aralkyl cyanoacetic acid esters. 2,655,526, Oct. 13.

Coppock, Philip D., Epsom, L. Mulligan, New Malden, J. T. McCombie, London, and A. G. White, Bristol, England, assignors to The Distillers Company Limited, Edinburgh, Scotland. Treatment of streptomycin solutions. 2,655,497, Oct. 13.

Corbitt, Robert W., Tunstall, Sittingbourne, and J. H. Dale, Darley Abbey, assignors to Rolls-Royce Limited, Derby, England. Heat exchanger with tube matrix. 2,655,346, Oct. 13.

Cox, John W., Chicago, Ill., assignor to General Package Corporation. Molded pulp carton. 2,655,303, Oct. 13.

Crabtree, J. A., & Co. Limited, assignee: *See*—
Besag, Ernst, and Wintle.

Crain, Robert L., assignor to Gray Tool Company, Houston, Tex. Equipment for treating wells. 2,655,218, Oct. 13.

Cramer, Roy A., Kansas City, Mo. Table with retractable casters. 2,655,387, Oct. 13.

Creed and Company Limited, assignee: *See*—
Salmon, Reginald D.

Crocker, John C., Ware Shoals, S. C. Parallel tongue and picker stick check for looms. 2,655,183, Oct. 13.

Crookshank, Fred T.: *See*—
Deutser, Alton J., and Crookshank.

Cross, Thomas, Jr.: *See*—
McNulty, George M., and Cross.

Cuneo, John J., Golden Meadow, La. Automatic boat bailer. 2,655,121, Oct. 13.

Cupp, Charles D., assignor to Scott Aviation Corporation, Lancaster, N. Y. Breathing apparatus. 2,655,130, Oct. 13.

Curtis, Chalmer C., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Conveyer belt and making same. 2,655,195, Oct. 13.

Cutler-Hammer, Inc., assignee: *See*—
Richardson, Linwood T., and Swinehart.

Cuttell, John R., Banstead, and T. R. Ashton, Eltham, London, assignors to Astell Laboratory Service Company Limited, London, England. Bung or stopper. 2,655,280, Oct. 13.

Daigle, Bert J., Sulphur, assignor of one sixty-fourth to E. W. Thompson, Calcasieu Parish, La. Suction hood holder. 2,654,950, Oct. 13.

Dale, John H.: *See*—
Corbitt, Robert W., and Dale.

Dalenberg, William R., Riverdale, Ill., assignor to International Harvester Company. Seal structure for use between a wall and a plate assembled therewith. 2,655,135, Oct. 13.

Dallin, David, Stenkullen, Ronninge, Sweden. Extended surface heat exchanger. 2,655,352, Oct. 13.

Dalton, Thomas B., assignor to West Michigan Steel Foundry Co., Muskegon, Mich. Support for semitrailers. 2,655,340, Oct. 13.

Daniels, Lee C., Harvey, Ill., assignor to Towmotor Corporation, Cleveland, Ohio. Barrel top grab mechanism. 2,655,278, Oct. 13.

Danielsson, Jan P., assignor to Aktiebolaget Atlas Diesel, Stockholm, Sweden. Method and means for tunneling or the like in rock. 2,655,360, Oct. 13.

Davis, Edgar B., Tangerine, Fla. Absorbent holder. 2,655,281, Oct. 13.

Davis, George K., Jr., Long Beach, Calif. Brush. 2,654,905, Oct. 13.

Davison, Alan, and L. J. Allen, assignors to Automatic Telephone & Electric Company Limited, Liverpool, England. Circuit arrangement including low-frequency relaxation oscillators. 2,655,560, Oct. 13.

Davoren, William F., Huntsville, Ala. Tablet container. 2,655,259, Oct. 13.

Debrie, André V. L. C., Paris, France. Vertically adjustable supporting device. 2,655,334, Oct. 13.

Deckel, Friedrich W., assignee: *See*—
Gebele, Kurt.

Deckel, Hans, assignee: *See*—
Gebele, Kurt.

Deere & Company, assignee: *See*—
Brown, Theophilus.

De Garmo, Oliver, St. Louis, and D. B. Guthrie, Glendale, assignors to Monsanto Chemical Company, St. Louis, Mo. Preparation of alpha-acetamido-beta-hydroxypropiophenones. 2,655,536, Oct. 13.

Delafosse, Georges, Courbevoie, France. Binding means for containers. 2,654,926, Oct. 13.

Delenk, Wolfram N., Lakewood, assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Rotary surface-finishing tool. 2,654,978, Oct. 13.

Delfs, Detlef: *See*—
Brüning, Eberhard, Delfs, and Spielberger.

Denison, Edward L., assignee: *See*—
Blanchard, Donn C.

Denison Engineering Company, The, assignee: *See*—
Adams, Cecil E., and Born.

Dentists' Supply Company of New York, The, assignee: *See*—
Sharlip, Edgar Y., and Dunbrack.
Whiteley, Joseph O., Jr., and Fritz.

Depolilly, Paul, Flixecourt, assignor to Société dite: Saint Frères, Société Anonyme, Paris, France. Current-supply means for weft stop motions. 2,655,184, Oct. 13.

De Scranage, Candirus, New York, N. Y. Shower head curtain suspension adapter. 2,654,893, Oct. 13.

Deslongchamps, Eudes, Caramat, Ontario, Canada. Raker gauge. 2,654,959, Oct. 13.

De Stefano, Bartholomew, City Island, N. Y. Hedge clipper. 2,654,947, Oct. 13.

Duetser, Alton J., Northville, Mich., and F. T. Crookshank, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y. Noncorrosive soluble oil containing active sulfur. 2,655,478, Oct. 13.

Devere Company, assignee: *See*—
Goudie, Wayne F.

Dexter, Robert G., Lexington, assignor, by mesne assignments to Continental Elastic Corporation, New Bedford, Mass. Hank winding machine. 2,654,980, Oct. 13.

Diamond Crystal Salt Co., assignee: *See*—
Gilkey, William K., and Shuman.

Dickert, Robert S.: *See*—
Gary, Charles V., and Dickert.

Diedring, John H.: *See*—
Michel, Clarence A., Mead, Diedring, and Barcus.

Diesfeld, Gerhard J., deceased, by R. S. Diesfeld, executrix, Olean, N. Y. Lantern bracket. 2,655,337, Oct. 13.

Diesfeld, Rose S., executrix: *See*—
Diesfeld, Gerhard J.

Digby, James J., Elmira, N. Y., assignor to Bendix Aviation Corporation, Engine starter drive. 2,655,048, Oct. 13.

Di Palo, Giuseppe, Turin, Italy. Fluid pressure operated rotary work or tool holder. 2,655,383, Oct. 13.

Distillers Company Limited, The, assignee: *See*—
Coppock, Philip D., Mulligan, McCombie, and White

Divette, Randolph E., Minneapolis, W. H. Gille, St. Paul, and W. L. Huntington, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Anti-backlash gearing. 2,655,050, Oct. 13.

Dominion Bridge Company Limited, assignee: *See*—
Braun, Leo.

Donahue, Dennis A.: *See*—
Mills, Edward L., and Donahue.

Donath, George A., Los Angeles, Calif. Storage battery grid plate casting and trimming machine. 2,654,939, Oct. 13.

Doolittle, Howard D., W. A. Zarth, and R. H. Rheaume, Stamford, Conn., assignors to Machlett Laboratories, Incorporated. Electron tube. 2,655,614, Oct. 13.

Doric, Charles A., West Warwick, R. I. Collar stay. 2,654,889, Oct. 13.

Dover, Cherrietta, assignee: *See*—
Neal, William E.

Dow Chemical Company, The, assignee: *See*—
Adams, Jack J.
Bryner, Fred.
Edmunds, Alvin M., and Sonnabend.
Sonnabend, Lawrence F., and Edmunds.

Dow Corning Corporation, assignee: *See*—
Hoffman, Kenneth R.

Drew, Willis P., La Grange, Ill., assignor to Arkell Safety Bag Company, New York, N. Y. Method of and machine for forming linings. 2,655,080, Oct. 13.

Dreyfuss, Henry, Pasadena, Calif., W. Winterbottom, New York, N. Y., and K. L. Maier, Philadelphia, Pa., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control panel. 2,655,176, Oct. 13.

Du Mond, Jesse W. M., assignor to California Institute Research Foundation, Pasadena, Calif. High vacuum gauge. 2,655,044, Oct. 13.

Du Mont, Allen B., Laboratories, Inc., assignee: *See*—
Seldin, Leon.

Dunbar, Norman R., Downey, assignor to Eldon Manufacturing Co., Los Angeles, Calif. Container and seal. 2,655,282, Oct. 13.

Dunbrack, Alvin P.: *See*—
Sharlip, Edgar Y., and Dunbrack.

Dunkelow, Henry J., assignor to Twin Disc Clutch Company, Racine, Wis. Control valve. 2,655,167, Oct. 13.

Dunlop, Andrew P., Riverside, and S. Swadesh, Broadview, assignors to The Quaker Oats Company, Chicago, Ill. Preparation of 2-acylpyrroles from 2-acylfurans. 2,655,512, Oct. 13.

Dunn, Henry M., and D. Oles, assignors to Choldun Manufacturing Corporation, New Haven, Conn. Fluid separating and preserving means for apparatus for cleaning vehicle radiators or the like. 2,655,161, Oct. 13.

Du Pont, E. I., de Nemours and Company, assignee: *See*—
Anderson, Frederick E.
Linch, Adrian L.
Lawson, William D.
Searle, Norman E.
Todd, Charles W.

Dutro, Lyle V.: *See*—
Dutro, Orville V. and L. V., and Nameth.

Dutro, Orville V. and L. V., La Canada, and J. F. Nameth, Los Angeles, Calif., assignors to The McBee Company, Athens, Ohio. Printing, punching, and cutting machine. 2,655,098, Oct. 13.

Dynamatic Corporation, assignee: *See*—
Jaeschke, Ralph L.

Eastern Stainless Steel Corporation, assignee: *See*—
Clingan, Irvine C.

Eberl, James J., Chester, and A. R. Ingram, Glenshaw, Pa., assignors to Johnson & Johnson. Adhesive for plaster of Paris for bandage use. 2,655,148, Oct. 13.

Ebers, Jewell J., Whippany, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Semiconductor signal translating device. 2,655,610, Oct. 13.

Ebin, Benjamin, New York, N. Y. Meat broiling apparatus. 2,655,096, Oct. 13.

Eckart, De Merle E., Abilene, and J. R. Rosenleaf, Enterprise, Kans. Mattress with reinforced opening. 2,654,898, Oct. 13.

Eckert, Ernst R. G., Lakewood, and T. W. Zobel, Dayton, Ohio, assignors to the United States of America as represented by the Secretary of the Air Force. Interference—Schlieren apparatus with simplified compensation principle. 2,655,074, Oct. 13.

Eckert, John P., Jr., Gladwyne, and J. W. Mauchly, Ambler, assignors to Eckert-Mauchly Computer Corporation, Philadelphia, Pa. Signal processing apparatus. 2,655,598, Oct. 13.

Eckert-Mauchly Computer Corporation, assignee: *See*—
Eckert, John P., Jr., and Mauchly.

Ecremeuses Melotte, Societe Anonyme, assignee: *See*—
Henrard, Fernand J. J. J.

Edgar, Albert C., Palos Heights, Ill., assignor to Wilson & Co., Inc. Coated food containers. 2,655,451, Oct. 13.

Edgemond, John W., Jr.: *See*—
Carroll, Ellsworth W., Edgemond, and Jespersen.

Edmunds, Alvin M.: *See*—
Sonnabend, Lawrence F., and Edmunds.

Edmunds, Alvin M., and L. F. Sonnabend, assignors to The Dow Chemical Company, Midland, Mich. Self-hardening furan resin compositions using a mixture of benzene sulfonyl chloride and trichloroacetic acid as catalysts. 2,655,491, Oct. 13.

Edwards, Curtis V., assignor to Edwards Equipment Company, Yakima, Wash. Cultivating device. 2,654,982, Oct. 13.

Edwards Equipment Company, assignee: *See*—
Edwards, Curtis V.

Edwards, Miles L., Portland, Oreg. Mixing valve. 2,655,316, Oct. 13.

Eichelman, Francis J., Brookfield, assignor to National Cylinder Gas Company, Chicago, Ill. Cutting torch tip, including high and low velocity preheat passages. 2,655,206, Oct. 13.

Eksergian, Carolus L., Media, assignor to The Budd Company, Philadelphia, Pa. Disk brake. 2,655,227, Oct. 13.

Eksergian, Carolus L., Media, assignor to The Budd Company, Philadelphia, Pa. Self-energizing brake. 2,655,228, Oct. 13.

Eksergian, Carolus L., Media, assignor to The Budd Company, Philadelphia, Pa. Disk brake mechanism. 2,655,229, Oct. 13.

Elberta Crate & Box Company, assignee: *See*—
Simmons, Jack W.

Eldon Manufacturing Co., assignee: *See*—
Dunbar, Norman R.

Electraulic Presses Limited, assignee: *See*—
Towler, John M., and F. H.

Electric & Musical Industries Limited, assignee: *See*—
Johnson, Charles A.

Ellis, Grenville B., Red Bank, N. J., assignor to the United States of America as represented by the Secretary of the Army. Magnesium-cuprous chloride reserve battery. 2,656,551, Oct. 13.

Engineering & Research Corporation, assignee: *See*—
Weick, Fred E.

Engle, Merlin E., St. Paul, Minn. Marble game. 2,655,380, Oct. 13.

English Electric Valve Company Limited, assignee: *See*—
Rollin, Bernard V.

Enos, John P., Union, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Ornamental stitching attachment for sewing machines. 2,655,119, Oct. 13.

Ensign, Elbert E., Ypsilanti, and R. A. Van Patten, Garden City, assignors to Ford Motor Company, Dearborn, Mich. Precision casting process. 2,654,925, Oct. 13.

Ensminger, Harry, Milburn, assignor to C-O-Two Fire Equipment Company, Newark, N. J. Fire extinguisher discharge device. 2,655,219, Oct. 13.

Erickson, Gustave A.: *See*—
Kirby, Leonard, Jr., and Erickson.

Ernest, Fred, Gardena, Calif. Container holder. 2,655,403, Oct. 13.

Erwin, Wesley S., assignor to General Motors Corporation, Detroit, Mich. Ultrasonic transmission testing. 2,655,035, Oct. 13.

Eschenburg, William A., and D. D. Pettigrew, Milwaukee, Wis., and C. Johnson, South Euclid, Ohio, assignors to Rockwell Manufacturing Company, Pittsburgh, Pa. Power feed mechanism. 2,655,058, Oct. 13.

Etherton, Murray D., Kirkwood, assignor to McDonnell Aircraft Corporation, St. Louis, Mo. Metering pin for aircraft landing gear. 2,655,232, Oct. 13.

Evans, Cyril G.: *See*—
Gordon, James E., and Evans.

Evans, Ronald M., Ickenham, and J. H. Chapman, Ruislip, assignors to Glaxo Laboratories Limited, Greenford, England. New unsaturated carbinols and preparing same. 2,655,548, Oct. 13.

Falla, Fernando, Maplewood, N. J., assignor to Kennedy-Van Saun Mfg. & Eng. Corporation, New York, N. Y. Air heater mounted in the convection section of furnaces. 2,655,138, Oct. 13.

Fansteel Metallurgical Corporation, assignee: *See*—
Cepon, Rudolph J.
Verdi, Columbus.

Farbenfabriken Bayer, assignee: *See*—
Brüning, Eberhard, Delfs, and Spielberger.

Farber, Eduard, and M. Sciascia, assignors to Timber Engineering Company, Washington, D. C. Wood treating process and composition. 2,655,454, Oct. 13.

Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius und Brüning, assignee: *See*—
Jensch, Heinrich.
Schmidt-Thomé, Josef.

Feibelman, Hans J., Providence, R. I. Separable connector for bracelets and the like. 2,654,929, Oct. 13.

Felck, Daniel E., Duquesne, Pa., assignor to United States Steel Corporation. Apparatus for detecting cobbles in sheet handling equipment. 2,655,249, Oct. 13.

Ferguson, Warren T., Newton Highlands, assignor to Anderson Products, Inc., Cambridge, Mass. Air vent for water systems. 2,655,170, Oct. 13.

Ferling, Harry J., Baltimore, Md. Travel game board and pegs. 2,655,381, Oct. 13.

Ferros Metals Research Company Limited, assignee: *See*—
Chisholm, Gilbert G.

Fieldhouse, John N.: *See*—
Nayler, Joshua C., and Fieldhouse.

Fiess, Roland, Ephrata, Wash. Harvesting reel. 2,654,984, Oct. 13.

Figore, Roland E., Tarentum, Pa., and E. A. Otto, Reseda, Calif. Hydraulic windshield wiper motor. 2,655,134, Oct. 13.

Fine, Norman: *See*—
Spitzer, Joseph G., Reich, and Fine.

Finkl, Charles W., Evanston, Ill. Throttle control. 2,655,051, Oct. 13.

Finneburgh, Lewis H., Jr., Cleveland Heights, Ohio. All band television antenna. 2,655,599, Oct. 13.

Fischer, Paul W., Long Beach, and R. A. Rogers, Wilmington, assignors to Union Oil Company of California, Los Angeles, Calif. Drilling mud. 2,655,475, Oct. 13.

FitzGerald, William P.: *See*—
Banes, Fred W., FitzGerald, and Nelson.

Floersch, Bernard W., assignor to The Ryan Aeronautical Co., San Diego, Calif. Compounded fluoborate chemical surface treatment of aluminum and aluminum alloys. 2,655,439, Oct. 13.

Fong, Willie: *See*—
Laundgren, Harold P., and Fong.

Fons, Silas C., Waukegan, Ill., and John Kramer, deceased, Waukegan, Ill. (Franklyn Alfred Kramer, administrator), assignors to United States Steel Corporation. Apparatus for drawing a wire tie through and around annular articles and twisting the ends together. 2,655,097, Oct. 13.

Food Machinery and Chemical Corporation, assignee: *See*—
Southwick, Philip L.

Forbath, Thomas P.: *See*—
Allen, Louis N., Jr., and Forbath.

Force, Albert J., Jr., Oakland, assighor of fifty percent to D. Barer, Los Angeles, Calif. Vibratory massage apparatus. 2,655,146, Oct. 13.

Ford Motor Company, assignee: *See*—
Ensign, Elbert E., and Van Patten.

Forstner Chain Corporation, assignee: *See*—
Armbruster, Ludwig.

Francis, Arthur F., Newark, N. J. Measuring instrument. 2,654,956, Oct. 13.

Francis, Harlis J., Morrill, Nebr. Unitary flag and banner standard. 2,655,126, Oct. 13.

Fraser, Walter A.: *See*—
Barnes, Robert B., and Fraser.

Frear, Jenness B., Altadena, Calif., assignor to Watkins Patents, Inc., Quincy, Ill. Nailing machine attachment. 2,654,886, Oct. 13.

Fredrickson, Milton O., Los Angeles, Calif. Lamp clip for dry cells. 2,655,593, Oct. 13.

Fritz, Carroll S.: *See*—
Whiteley, Joseph O., Jr., and Fritz.

Fry, Lloyd D.: *See*—
Callahan, Vincent T., and Fry.

Frystak, Theodore K., St. Louis Park, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Steering mechanism. 2,655,328, Oct. 13.

Fuller, Leonard, London, and J. A. Szper, Barking, England, assignors, by mesne assignments, to L. Fuller, London, and E. W. Sudlow, Berkeley Gardens, England. Separator for electric secondary batteries. 2,655,552, Oct. 13.

Funkhouser, Mearick, and G. A. Brundrett, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Shock absorber. 2,655,233, Oct. 13.

Garbo, Paul W., Freeport, assignor to Hydrocarbon Research, Inc., New York, N. Y. Fluidized solids reactor. 2,655,437, Oct. 13.

Gardner, Daniel, New York, N. Y. Production of unctuous graphite. 2,655,433, Oct. 13.

Gardner, Robert P. G., London, England, assignor to The Ohio Crankshaft Company, Cleveland, Ohio. Induction heating apparatus. 2,655,590, Oct. 13.

Garibaldi, Joseph G., Saticoy, Calif. Lacing needle for leathercraft. 2,655,297, Oct. 13.

Garner, Herman H., assignee: *See*—
Russell, Kenneth F.

Gary, Charles V., Elmhurst, and R. S. Dickert, Chicago, assignors to Henry Valve Company, Incorporated, Melrose Park, Ill. Liquid indicator device. 2,655,124, Oct. 13.

Gasbarro, Armando, Jersey City, N. J. Calendar clock. 2,654,988, Oct. 13.

Gaylord, William M., Jr., Cleveland, Ohio, assignor to Union Carbide and Carbon Corporation. Tube arrangement for heat exchangers. 2,655,350, Oct. 13.

Gebauer, Florian J., Akron, Ohio. Rake attachment for tractors. 2,655,277, Oct. 13.

Gebele, Kurt, Munich, assignor to H. Deckel, Munich-Solln, and F. W. Deckel, Post Tutzing, Germany. Photographic shutter with adjustable flash synchronizing mechanism. 2,655,085, Oct. 13.

Geiger, Rex W., York, Nebr. Filter. 2,655,091, Oct. 13.

Gelis, Robert H.: *See*—
Keyl, Alexander C., and Gelis.

General Aniline & Film Corporation, assignee: *See*—
Slifkin, Sam C.
Trump, Frederick O.

General Electric Company, assignee: *See*—
Benander, George B., and Lawson.
Buckland, Bruce O., and Rice.
Godfrey, Ronald G., and Krajcik.
Low, Frank D.
Scoles, Graham J.
Sway, Henry C.
Von Hoorn, Fred G.
Walker, Chapman J.

General Motors Corporation, assignee: *See*—
Bierlein, Carl A.
Brown, William E., Redick, and McWilliams.
Chapman, Frederick W.
Cobb, Leland D.
Erwin, Wesley S.
Funkhouser, Mearick, and Brundrett.
Kelley, Oliver K.
Kenlock, Albert A. H.
Krause, Herbert A.
Kuhn, Albert J.
Marvin, John T.
Michel, Clarence A., Mead, Diedring, and Barcus.
Soroka, Theodore J.
Squibb, George R., and Urquhart.

General Package Corporation, assignee: *See*—
Burger, Martin.
Cox, John W.
Schilling, Paul K.

General Steel Castings Corporation, assignee: *See*—
Travilla, James C.

Gerdin, Sven G.: *See*—
Aldrin, Henry W., and Gerdin.

Gess, Louis, Jenkintown, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Force measuring instrument. 2,655,037, Oct. 13.

Gilkerson, Marian H.: *See*—
Sloan, Jervis H., and Gilkerson.

Gilkey, William K., Cuyahoga Falls, Ohio, and A. C. Shuman, Mountain Lakes, N. J., assignors, by mesne assignments, to Diamond Crystal Salt Co., St. Clair, Mich. Salt crystallization process. 2,655,438, Oct. 13.

Gille, Willis H.: *See*—
Divette, Randolph E., Gille, and Huntington.

Gillette Company, The, assignee: *See*—
Testi, Nicholas.

Gilson, William D.: *See*—
Manteuffel, Allan, Cook, and Gilson.

Glaxo Laboratories Limited, assignee: *See*—
Evans Ronald M., and Chapman.

Glenn, Annie M., trustee, assignee: *See*—
House, Samuel G., and Hobbs.

Glidden, Galen M., Wheaton, assignor to Acme Protection Equipment Company, Chicago, Ill. Exhaust valve for gas masks. 2,655,175, Oct. 13.

Godbold, Nat H., Idaho Falls, Idaho, assignor to the United States of America as represented by the United States Atomic Energy Commission. Electromagnetic fluid pump. 2,655,107, Oct. 13.

Goddard, Esther C., executrix: *See*—
Goddard, Robert H.

Goddard, Robert H., deceased, Annapolis, Md., by E. C. Goddard, executrix, Worcester, Mass. Two-liquid combustion chamber for rocket apparatus. 2,654,997, Oct. 13.

Godfrey, Ronald G., Southport, and F. J. Krajcik, Bridgeport, Conn., assignors to General Electric Company. Angle socket for electric lamps. 2,655,637, Oct. 13.

Gohr, Edwin J., New York, N. Y., and H. Z. Martin, Cranford, C. E. Jahnig, Red Bank, C. W. Tyson, Summit, and J. M. Graham, Plainfield, N. J., assignors to Standard Oil Development Company. Shutting-down catalytic apparatus employed for the conversion of hydrocarbons. 2,655,466, Oct. 13.

Gold, Byrd M., Tampa, Fla. Spinnerflex mowing machine cutterhead. 2,654,986, Oct. 13.

Golle, Horst, Berlin-Steglitz, Germany. Dual function indicator. 2,655,125, Oct. 13.

Goodrich, B. F., Company, The, assignee: *See*—
Curtis, Chalmer C.
Krupp, Carroll P.
L'Hollier, Leslie H.
Morrison, Burton W.
Sternad, Frank S., and Sapp.

Gordon, James E., Rollright, Fleet, and C. G. Evans, Farnborough, assignors to the Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England. Producing an aerofoil having a core and a laminated molded skin. 2,655,459, Oct. 13.

Goslin-Birmingham Manufacturing Company, Inc., assignee: *See*—
Little, John W.

Gottfried, Louis, New York, N. Y. Baby tender. 2,655,202, Oct. 13.

Gottsche, Adolph, Inc., assignee: *See*—
Hirschey, Malcolm.

Goudie, Wayne F., Kenosha, assignor to Devere Company, Racine, Wis. Sheet clamping device. 2,654,932, Oct. 13.

Gould, Byron C., assignor to The Murray Corporation of America, Detroit, Mich. Spring cushion having the load supporting portion reinforced by fabric. 2,655,204, Oct. 13.

Gowland, John P., Santa Barbara, Calif. Tilting track amusement apparatus. 2,655,116, Oct. 13.

Graham, John M.: *See*—
Gohr, Edwin J., Martin, Jahnig, Tyson, and Graham.

Granberg, Albert J., Oakland, Calif. Liquid dispensing apparatus having protected quantity control mechanism and counter. 2,655,285, Oct. 13.

Grant, Lee A., Flint, Mich. Feeler gauge. 2,654,957, Oct. 13.

Grant Pulley & Hardware Corporation, assignee: *See*—
Gussack, Seymour I.

Gray Tool Company, assignee: *See*—
Crain, Robert L.

Greaves, Joseph, Toston, Mont. Storage bin. 2,654,917, Oct. 13.

Greene, Robert L., Westfield, N. J., assignor to Standard Oil Development Company. Recovering solvent from process steam. 2,655,468, Oct. 13.

Grodzinski, Paul, and A. L. K. Penkuhn, London, England. Method of and device for producing specifically orientated polished faces on diamonds. 2,654,979, Oct. 13.

Groebe, John L., Dewey, Okla., assignor to Phillips Petroleum Company. Refortification of aluminum halide-hydrocarbon complex catalyst. 2,655,484, Oct. 13.

Groeger, Alfred H., New Hyde Park, assignor to Kason Hardware Corporation, Brooklyn, N. Y. Lock for refrigerator doors or other closures. 2,655,395, Oct. 13.

Grow, Clyde W.: *See*—
Wolfe, Charles M., Shultise, and Grow.

Guercio, Charles C., Smithtown Branch, N. Y. Storm shutter. 2,655,094, Oct. 13.

Guest, Maurice C., Hialeah, Fla. Cap protector. 2,655,256, Oct. 13.

Gulf Research & Development Company, assignee: *See*—
Stevens, Donald R., and Bowman.

Gullett, William W., College Park, assignor to Manganese Battery Corporation, Riverdale, Md. Manganese dioxide for primary cells. 2,655,456, Oct. 13.

Gumperts, Donald G.: *See*—
Ayres, Robert J., and Gumperts.

Gunther, William A., Cumberland, Md. Mechanical stage for microscopes. 2,655,078, Oct. 13.

Gussack, Seymour I., assignor, by mesne assignments, to Grant Pulley & Hardware Corporation, Flushing, N. Y. Pivotally movable sliding bracket for drawers or shelves and locking means therefor. 2,655,422, Oct. 13.

Guthrie, David B.: *See*—
De Garmo, Oliver, and Guthrie.

Hadley, John V., Kenilworth, England. Article of furniture. 2,655,420, Oct. 13.

Haehnel, Herbert E., West Reading, assignor to Textile Machine Works, Wyomissing, Pa. Method and fashioning means for knitting machines. 2,655,018, Oct. 13.

Hagen, Frank E.: *See*—
Lauricella, John W., and Hagen.

Haley, Kenneth M.: *See*—
Trask, Harold V., and Haley.

Halvorsen, Russell V., Antioch, W. F. Kranse, Chicago, and R. J. Polivka, Berwyn, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Tool operating machine having apparatus for positioning work in a plurality of positions. 2,655,059, Oct. 13.

Hamilton Watch Company, assignee: *See*—
Le Van, James O.
Van Haaften, Egbert.

Hancock Manufacturing Company, assignee: *See*—
Marple, Rollo.

Hanchett, George D., Jr., Millburn, N. J., assignor to Radio Corporation of America. Railway signaling system. 2,655,594, Oct. 13.

Hansche, George E., Albuquerque, N. Mex., assignor to the United States of America as represented by the Secretary of the Navy. Motor dropper. 2,655,105, Oct. 13.

Hanse, Arthur R.: *See*—
Marlatt, Paul E., Hanse, McIntosh, and Levin.

Hardy, Paul E.: *See*—
Young, David W., and Hardy.

Hardy, William B., Bound Brook, and H. Z. Lecher, Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y. Sulfur trioxide compounds of pentaalkylguanidines. 2,655,528, Oct. 13.

Harraway, Leonard G., Nottingham, England. Container for yarn packages. 2,655,019, Oct. 13.

Harris, Marcus R., Indianapolis, Ind. Vehicle barrier. 2,655,225, Oct. 13.

Harrison, George R., assignor to Adglo, Inc., Chicago, Ill. Luminous sign. 2,654,971, Oct. 13.

Hart, Edward G.: *See*—
Kanning, Eugene W., and Hart.

Hart, John V., Havertown, and E. E. Lakjer, Philadelphia, Pa., assignors, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Mercury manometer. 2,655,043, Oct. 13.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Verhoeff, Adrianus.

Hartley, George C., F. H. Bray, and G. H. Hough, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Alternating current switching device. 2,655,605, Oct. 13.

Hasse, Delmas F.: *See*—
Augspurger, Luther S., and Hasse.

Hayden, Arthur A., Kenosha, Wis., assignor to Carter Carburetor Corporation, St. Louis, Mo. Carburetor deicer. 2,655,141, Oct. 13.

Hayes, Loren A., and W. C. Swancott, Elyria City, Ohio, assignors to United States Steel Corporation. Pipe testing head assembly. 2,655,182, Oct. 13.

Hecht, Elmer R., Lakefield, Minn. License plate fastening device. 2,654,933, Oct. 13.

Heeren, Vernon L., Waverly, Iowa. Automatic gain control circuit. 2,655,596, Oct. 13.

Heger, Guillaume, Paris, France. Apparatus for a percutaneous treatment. 2,655,145, Oct. 13.

Hehn, Louis F., assignor to Mills Industries, Incorporated, Chicago, Ill. Coin changer. 2,655,243, Oct. 13.

Hempel, Herbert W., assignor to Marsh Stencil Machine Company, Belleville, Ill. Machine for mechanically electrically measuring and dispensing gummed tape. 2,655,372, Oct. 13.

Henderson, Robert, assignee: *See*—
Caretto, Louis.

Henrard, Fernand J. J. J., assignor to Ecremeuses Melotte, Societe Anonyme, Remicourt, Belgium. Pulsator for milking machines. 2,655,168, Oct. 13.

Henry Valve Company, Incorporated, assignee: *See*—
Gary, Charles V., and Dickert.

Herald Press, Inc., The, assignee: *See*—
Stewart, Ralph T.

Herbster, George B., assignor to Herbster-Schmiler, Inc., Cleveland, Ohio. Fuel burning air heater with upright tubes. 2,655,143, Oct. 13.

Herbster-Schmiler, Inc., assignee: *See*—
Herbster, George B.

Herman, Daniel F., Queens, assignor to National Lead Company, New York, N. Y. Preparation of alkyl titanates. 2,655,523, Oct. 13.

Hester, Levi C., assignor to Hester Plow Co. Inc., Jacksonville, Fla. Ditching side plow for use on tractors. 2,655,087, Oct. 13.

Hester Plow Co. Inc., assignee: *See*—
Hester, Levi C.

Hewitt, John: *See*—
Spencer, Arthur, and Hewitt.

Hewitt, John C., Long Beach, Calif. Well instrument, including pressurized battery. 2,654,960, Oct. 13.

Hewitt-Robins Incorporated, assignee: *See*—
Bankauf, William F.

Heyden, Leslie G.: *See*—
Pfeifer, Raymond B., and Heyden.

Hice, Jaxon O., and J. J. Meadows, assignors to Seapak Corporation, St. Simons Island, Ga. Batter applying apparatus. 2,655,127, Oct. 13.

Hilliard, Robert V., and C. T. Baroch, Boulder City, Nev. Extracting and recovering metals by leaching and electrolysis. 2,655,472, Oct. 13.

Hillison, Harold R., Amboy, Ill. Stacked antenna array for television signal reception. 2,655,600, Oct. 13.

Hirschey, Malcolm, Woodside, N. Y., assignor, by mesne assignments, to Adolph Gottscho, Inc., Hillside, N. J. Printing apparatus. 2,655,103, Oct. 13.

Hobbs, Oscar K.: *See*—
House, Samuel G., and Hobbs.

Hoen, Kenneth H., and J. M. Archer, deceased (by G. M. Williams, administrator, R. E. Archer, administratrix de bonis non), assignors to Pioneer Fencing Co., Inc., Billings, Mont. Fencing machine. 2,655,006, Oct. 13.

Hoffman, Alfred E., Clarendon Hills, assignor to Universal Oil Products Company, Chicago, Ill. Desulfurization of hydrocarbons. 2,655,463, Oct. 13.

Hoffman, Kenneth R., assignor to Dow Corning Corporation, Midland, Mich. Siloxane structural foams. 2,655,485, Oct. 13.

Hoffmann-La Roche Inc., assignee: *See*—
Steiger, Norbert.

Hogg, John A., J. Korman, W. B. Reid, Jr., and A. H. Nathan, assignors to The Upjohn Company, Kalamazoo, Mich. Carbethoxycyclohexanones. 2,655,527, Oct. 13.

Hogg, John A., J. Korman, W. B. Reid, Jr., and A. H. Nathan, assignors to The Upjohn Company, Kalamazoo, Mich. Disubstituted aminoethylcyclohexanones. 2,655,537, Oct. 13.

Hohl, John, and R. A. Pim, Toledo, Ohio, assignors to Owens-Illinois Glass Company. Machine for applying screw caps to containers. 2,655,302, Oct. 13.

Holdeman, Lloyd H., and H. K. Hybarger, assignors to Manning, Maxwell & Moore, Inc., Muskegon, Mich. Drop pit apparatus. 2,655,114, Oct. 13.

Holdeman, Lloyd H., and H. K. Hybarger, assignors to Manning, Maxwell & Moore, Inc., Muskegon, Mich. Drop pit apparatus. 2,655,113, Oct. 13.

Hollingsworth, Stanley J., Jenks, Okla. Fishing line signal light. 2,654,972, Oct. 13.

Holmdahl, Arthur C., assignor to Midwest Metal Stamping Co., Kellogg, Iowa. Support for hoops for basketball games. 2,655,377, Oct. 13.

Holmes, Raynor M.: *See*—
Inman, William H., and Holmes.

Holt-Seeland, Aage, Los Angeles, Calif. Obtaining stereophonic sound. 2,655,564, Oct. 13.

Holtsclaw, John B., Roselle, and J. D. Brooks, Elizabeth, N. J., assignors to Standard Oil Development Company. Recovery of useful product from spent doctor. 2,655,482, Oct. 13.

Holtzclaw, John B., Roselle, N. J., assignor to Standard Oil Development Company. Recovery of useful product from spent doctor. 2,655,483, Oct. 13.

Homrighous, John H., Oak Park, Ill. Multiplex time division telephone systems. 2,655,632, Oct. 13.

Hookstratten, Kathleen L., Whittier, Calif. Lady's shoulder protector. 2,654,887, Oct. 13.

Hoover Ball & Bearing Company, assignee: *See*—
Lighthall, Cone W.

Hoover Company, The, assignee: *See*—
White, Harry B.

Hopff, Heinrich, and H. Spaenig, Ludwigshafen (Rhine), Germany. Calcium choline citrate salt of P-amino salicylic acid. 2,655,329, Oct. 13.

Hopff, Heinrich, and H. Spaenig, Ludwigshafen (Rhine), Germany. N-oxoalkyl-para-aminosalicylic acids. 2,655,332, Oct. 13.

Hopff, Heinrich, Ludwigshafen (Rhine), and K. Vierling, am Muehlrain, Neckargemuend, Germany. Preparation of choline chloride. 2,655,541, Oct. 13.

Hott, Ion V. K., and K. E. Berk, assignors to The Joyce-Cridland Company, Dayton, Ohio. Door control for the rear lifting mechanism of two post lifts. 2,655,224, Oct. 13.

Hough, George H.: *See*—
Hartley, George C., Bray, and Hough.

House, Samuel G., and O. K. Hobbs, assignors to J. F. Nevins, A. M. Glenn, and C. G. Teague, Abilene, Tex., as trustees. Dual rotor compressor. 2,655,309, Oct. 13.

Hudson, Richard, Madison, N. J. Sump-drained dish structure. 2,655,016, Oct. 13.

Huffman, Warren C.: *See*—
Soehl, John, and Huffman.

Hughes, Everett C., Shaker Heights, and E. C. Milberger, Maple Heights, assignors to The Standard Oil Company, Cleveland, Ohio. Thickened lubricants. 2,655,476, Oct. 13.

Hull, Chester A., Raceland, Ky. Skipper bar. 2,655,376, Oct. 13.

Hull, Henry E., Worthington, assignor, by mesne assignments, to Rockwell Tools, Inc., Columbus, Ohio. Saw filing machine. 2,655,057, Oct. 13.

Hultberg, Rolf B. J.: *See*—
Bilde, Tord E. D., and Hultberg.

Hultberg, Rolf B. J., assignor to Aktiebolaget Elektrolux, Stockholm, Sweden. Driving arrangement and control for clothes-washing apparatus and the like. 2,655,241, Oct. 13.

Huntington, William L.: *See*—
Divette, Randolph E., Gille, and Huntington.

Hutsell, Thomas A., Renton, Wash. Yardage reading device for attachment to revolving wheels. 2,655,314, Oct. 13.

Hütter, Ulrich, Kirchheim (Teck), assignor to Allgaier Werkzeugbau G. m. b. H., Uhingen Wurttemberg, Germany. Wind-driven power plant with centrifugal governor. 2,655,604, Oct. 13.

Hybarger, Hugh K.: *See*—
Holdeman, Lloyd H., and Hybarger.

Hydraulik A/S, assignee: *See*—
Vestre, Rasmus.

Hydrocarbon Research, Inc., assignee: *See*—
Garbo, Paul W.

Hydropress Inc., assignee: *See*—
Terhune, Howard.

Hytte, Robert P. L., Lund, assignor to Aktiebolaget Separator, Stockholm, Sweden. Temperature control for heat exchangers. 2,655,351, Oct. 13.

I/S Interply, assignee: *See*—
Moe, Halfdan N.

Ihle Manufacturing Company, assignee: *See*—
Ihle, Orden E., and Kapteyn.

Ihle, Orden E., Glendale, and E. J. Kapteyn, Los Angeles, assignors to Ihle, doing business as Ihle Manufacturing Company, Glendale, Calif. Combined container and dispenser for liquids. 2,655,011, Oct. 13.

Illinois Tool Works, assignee: *See*—
Poupitch, Ouglicea J.

Imperial Chemical Industries Limited, assignee: *See*—
Lodge, Frank, and Wardleworth.

Industrial Rayon Corporation, assignee: *See*—
Stanley, Richard W.

Ingell, Nelson C., Brooklyn, N. Y. Self-filling, hand-operated atomizer or spraying device. 2,655,407, Oct. 13.

Ingraham, E., Company, The, assignee: *See*—
Nichols, Malcolm P.

Ingram, Alvin R.: *See*—
Eberl, James J., and Ingram.

Inman, William H., and R. M. Holmes, assignors to Bloomer Bros. Company, Newark, N. Y. Collapsible carton. 2,655,304, Oct. 13.

International Harvester Company, assignee: *See*—
Dalenberg, William R.

International Nickel Company, Inc., The, assignee: *See*—
Rhodes, Edwin C., and Rhys.

International Paper Box Machine Company, The, assignee: *See*—
Amyx, Elmer, and Kramer.

International Postal Supply Company, The, assignee: *See*—
Persson, Ernest.

International Standard Electric Corporation, assignee: *See*—
Hartley, George C., Bray, and Hough.
Reeves, Alec H.

Jack & Heintz, Inc., assignee: *See*—
Kroko, Leonard J.

Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Rear compartment lock. 2,655,028, Oct. 13.

Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Weather sealed lock mechanism. 2,655,031, Oct. 13.

Jacobsson, Wilgot J., Plainfield, N. J., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Flowmeter. 2,655,041, Oct. 13.

Jaeschke, Ralph L., assignor to Dynamatic Corporation, Kenosha, Wis. Electronic control for inductive apparatus. 2,655,612, Oct. 13.

Jahnig, Charles E.: *See*—
Brown, James W., and Jahnig.
Gohr, Edwin J., Martin, Jahnig, Tyson, and Graham.

Jensch, Heinrich, assignor to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius und Brüning, Frankfurt am Main Hochst, Germany. Bis-hydrazones. 2,655,538, Oct. 13.

Jensch, Heinrich, assignor to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius und Brüning, Frankfurt am Main Hochst, Germany. Bis-hydrazones. 2,655,539, Oct. 13.

Jensch, Heinrich, assignor to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius und Brüning, Frankfurt am Main Hochst, Germany. Bis-hydrazones. 2,655,540, Oct. 13.

Jespersen, Holger J.: *See*—
Carroll, Ellsworth W., Edgemond, and Jespersen.

Jobb, Walter S., Cicero, Ill. Inking mechanism for printing presses. 2,655,104, Oct. 13.

Johns-Manville Corporation, assignee: *See*—
Siering, Robert L.

Johnson, Alvin L., Worcester, Mass. Wood joint connector. 2,654,923, Oct. 13.

Johnson, Charles A., Berlin, N. H. Wood chipper disk with radially oriented knives of graduated bevels. 2,655,319, Oct. 13.

Johnson, Charles A., East Twickenham, assignor to Electric & Musical Industries Limited, Hayes, England. Generation of picture signals for television transmission. 2,655,554, Oct. 13.

Johnson, Clarence: *See*—
Eschenburg, William A., Pettigrew, and Johnson.

Johnson, Elmer, Middlesboro, Ky. Bottle handling device. 2,655,402, Oct. 13.

Johnson, Elmer M., Lafox, Ill. Adjustable stand for rug hooking or embroidery hoops or the like. 2,655,235, Oct. 13.

Johnson, JB, assignor of 24% to W. C. Thompson and 24% to P. Morris, Tyler, Tex. Refrigeration system for vehicles. 2,655,009, Oct. 13.

Johnson & Johnson, assignee: *See*—
Eberl, James J., and Ingram.

Johnston, Earl W., Worcester, Mass., assignor to United States Steel Corporation. Profile tracing machine. 2,654,951, Oct. 13.

Johnston Testers, Inc., assignee: *See*—
Bagnell, Edgar W.

Jones, Jack, Eden, Tex. Lift for ceiling boards. 2,655,412, Oct. 13.

Jones, Reginald E.: *See*—
Milne, Winford G., and Jones.

Jones, Reuben G., assignor to Eli Lilly and Company, Indianapolis, Ind. Pyrazole compounds. 2,655,506, Oct. 13.

Jones, Reuben G., assignor to Eli Lilly and Company, Indianapolis, Ind. Pyrazole compounds. 2,655,507, Oct. 13.

Jones, Reuben G., assignor to Eli Lilly and Company, Indianapolis, Ind. Pyrazole compound. 2,655,508, Oct. 13.

Jörgensen, Hans J., Hamburg-Stellingen, Germany. Regulating valve for refrigerating installations. 2,654,976, Oct. 13.

Joy Manufacturing Company, assignee: *See*—
Baechli, George.
Bebinger, Charles N.
Rollins, Lester G.
Woolf, James W.

Joyce-Cridland Company, The, assignee: *See*—
Hott, Ion V. K., and Berk.

Kanning, Eugene W., and E. G. Hart, assignors to The Arco Company, Cleveland, Ohio. Interpolymer of vinyl-aromatic compound and conjugated oil fatty acid. 2,655,488, Oct. 13.

Kapteyn, Edwin J.: *See*—
Ihle, Orden E., and Kapteyn.

Kason Hardware Corporation, assignee: *See*—
Groeger, Alfred H.

Keating, Richard T., Chicago, Ill. Deep fryer. 2,655,144, Oct. 13.

Kelk, George F., Leaside, Ontario, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada. Electronic control for contour milling machines. 2,655,630, Oct. 13.

Keller, Harry L., assignor to The Ohio Crankshaft Company, Cleveland, Ohio. Means for continuous heating and cooling of long flexible elements. 2,655,368, Oct. 13.

Keller, William M.: *See*—
Steins, Carleton K., and Keller.

Kelley, Oliver K., Birmingham, assignor to General Motors Corporation, Detroit, Mich. Cross drive for heavy vehicles. 2,655,054, Oct. 13.

Kelley, Walter T., Paducah, Ky. Ventilating cover for beehives. 2,654,900, Oct. 13.

Kellogg Company, assignee: *See*—
Cole, Earl S., and Vanderlip.

Kellogg, M. W., Company, The, assignee: *See*—
Morfit, Oliver.

Kelso, Clarence L., Oilton, Okla. Pipe carrying clamp. 2,655,401, Oct. 13.

Kenlock, Albert A. H., Stoke Hammond, near Bletchley, England, assignor to General Motors Corporation, Detroit, Mich. Connector strip. 2,655,239, Oct. 13.

Kennedy, Robert J., Heaton, Bradford, England. Textile yarn clearer. 2,654,938, Oct. 13.

Kennedy-Van Saun Mfg. & Eng. Corporation, assignee: *See*—
Falla, Fernando.

Kertes, John, Pittsburgh, Pa. Automatically stepped pocket punch. 2,655,215, Oct. 13.

Kessler, Frank, Rochester, N. Y., assignor to Stromberg-Carlson Company. Telephone pay station adapter common to a plurality of lines. 2,655,558, Oct. 13.

Kessler, Ward P., near Bristol, Ind., assignor to V. M. Langsett, Chicago, Ill., as trustee. Insulated metal window closure. 2,654,920, Oct. 13.

Keyl, Alexander C., Bensenville, and R. H. Geils, Downers Grove, Ill., assignors to Fred't A. Stresen-Reuter, Inc. Tetrahydrophthalic alkyd resins. 2,655,486, Oct. 13.

Keyl, Alexander C., Bensenville, and R. H. Geils, Downers Grove, Ill., assignors to Fred't A. Stresen-Reuter, Inc. Tetrahydrophthalic acid half ester compounds. 2,655,487, Oct. 13.

King, Geo. W., Limited, assignee: *See*—
Warwick, Kenneth B.

Kinneman, William P., Westfield, N. J., assignor to Raymond Concrete Pile Company, New York, N. Y. Wharf fender. 2,655,005, Oct. 13.

Kirby, Leonard, Jr., and G. A. Erickson, Mendham, assignors to Mepco, Inc., Morristown, N. J. Noninductive electrical resistor. 2,655,582, Oct. 13.

Kise, Mearl A., Portsmouth, Va., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Dibasic silver salts of alkenyl succinic acids and combating fungus infestations therewith. 2,655,460, Oct. 13.

Kise, Mearl A., Portsmouth, Va., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Complex zinc- and silver-ammonia salts of alkenyl succinic acids, preparing them, and combating fungi therewith. 2,655,461, Oct. 13.

Kleiman, Morton, Chicago, Ill., assignor to Arvey Corporation. Pesticidal compounds. 2,655,513, Oct. 13.

Kleiman, Morton, Chicago, Ill., assignor to Arvey Corporation. Pesticidal compounds. 2,655,514, Oct. 13.

Kley, Peter T.: *See*—
Peake, Andrew E., and Kley.

Klotz, Henry J., St. Louis, Mo. Surgical apparatus. 2,655,153, Oct. 13.

Knopf, George R., Paterson, N. J. Corpse-concealing stretcher. 2,654,897, Oct. 13.

Kocher, Erich J.: *See*—
Sloan, Harry, and Kocher.

Kogel, Wilhelm G., assignor to Aktiebolaget Elektrolux, Stockholm, Sweden. Absorption refrigeration. 2,655,010, Oct. 13.

Konchan, Anton W., Berwyn, Ill. Radiator pressure cap. 2,655,284, Oct. 13.

Korman, Jerome: *See*—
Hogg, John A., Korman, Reid, and Nathan.

Kraft Foods Company, assignee: *See*—
Riemer, John.

Krajcik, Frank J.: *See*—
Godfrey, Ronald G., and Krajcik.

Kramer, Franklyn A., administrator: *See*—
Foss, Silas C., and Kramer.

Kramer, John: *See*—
Foss, Silas C., and Kramer.

Kramer, Joseph: *See*—
Amyx, Elmer, and Kramer.

Krause, Herbert A., Brookfield, Ill., assignor to General Motors Corporation, Detroit, Mich. Brush spring retractor. 2,655,061, Oct. 13.

Krause, William F.: *See*—
Halvorsen, Russell V., Krause, and Polivka.

Krimmel, Carl P., Mundelein, assignor to G. D. Searle & Co., Chicago, Ill. N,N-disubstituted aminoalkanol esters of α,α-diacyltoluic acids and their salts. 2,655,504, Oct. 13.

Kroko, Leonard J., Shaker Heights, assignor to Jack & Heintz, Inc., Cleveland, Ohio. Elapsed time indicator. 2,655,634, Oct. 13.

Kropa, Edward L., Old Greenwich, Conn., and E. W. Malmberg, Dublin, Ohio, assignors to American Cyanamid Company, New York, N. Y. Polymerizable acrylonitrile compositions and polymerization products thereof. 2,655,494, Oct. 13.

Krupp, Carroll P., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Inflatable closing strip for aircraft. 2,654,922, Oct. 13.

Kuettler, Arthur, Jr., Berwyn, and F. Radakovich, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Strand guiding and tensioning device. 2,655,325, Oct. 13.

Kuhn, Albert J., assignor to General Motors Corporation, Dayton, Ohio. Electrical apparatus, including plural generators and loads. 2,655,602, Oct. 13.

Kunkel, Elsy O., assignor of one-half to W. E. Leigan, Great Bend, Kans. Combination space heater or cooler. 2,655,317, Oct. 13.

Kutschera, Vigo V., Spillmacheen, British Columbia, Canada. Ski binding. 2,655,386, Oct. 13.

La Belle Industries, Inc., assignee: *See*—
Birbaum, Lester W.

Ladd, Elbert C., Passaic, N. J., and H. Sargent, San Anselmo, Calif., assignors to United States Rubber Company, New York, N. Y. Production of halogeno fatty acid esters. 2,655,521, Oct. 13.

Laird, John A., Coventry, assignor to Joseph Lucas Limited, Birmingham, England. Electric spark ignition apparatus. 2,655,617, Oct. 13.

Lakjer, Earl E.: *See*—
Hart, John V., and Lakjer.

La Lone, Ralph, Detroit, Mich. Bending and shearing machine. 2,655,192, Oct. 13.

Lamagna, Vincent, Rutherford, N. J. Automatically closing cap for collapsible tubes of cream. 2,655,293, Oct. 13.

Lange, Per G., and R. O. J. Möller, Finspong, Sweden. Means for applying sealing bands to labyrinth packing disks. 2,655,364, Oct. 13.

Langerman, I. Newton, Portland, Oreg. Portable acetylene generator. 2,655,441, Oct. 13.

Langsett, Victor M., trustee, assignee: *See*—
Kessler, Ward P.

Langvand, Ivar L., Barberton, Ohio, assignor to The Babcock & Wilcox Company, Rockleigh, N. J. Fluid heater casing. 2,655,238, Oct. 13.

Lansa, Sergio, Savona, Italy. Device for the setting of the multiplier into motor-driven calculating machines. 2,655,313, Oct. 13.

Larson, Paul R.: *See*—
Szwarguiski, Alex N., and Larson.

Lattner, Emert J., Cedar Rapids, Iowa. Mobile spraying equipment. 2,655,405, Oct. 13.

Laurenty, François, Loos-les-Lille, France. Apparatus for the continuous fermentation of pulverised vegetable products. 2,655,434, Oct. 13.

Lauricella, John W., Passaic, and F. E. Hagen, Cliffside Park, assignors to Bendix Aviation Corporation, Teterboro, N. J. Control system. 2,655,629, Oct. 13.

Law, Harold B., Princeton, N. J., assignor to Radio Corporation of America. Mounting screens for cathode-ray tubes. 2,654,940, Oct. 13.

Lawrence, James D., Woodson, Ark. Roof framer. 2,654,954, Oct. 13.

Lawson, Gustaf R.: *See*—
Benander, George B., and Lawson.

Lawson, William D., Springfield, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Coating compositions comprising polyethylene and alkyl polysiloxane and making same. 2,655,459, Oct. 13.

Laxo, Ed, assignor to Atlas Imperial Diesel Engine Co., Oakland, Calif. Feeding mechanism. 2,655,373, Oct. 13.

Lazar, Joseph H., assignor to Refrigeration Systems, Inc., Chicago, Ill. Shell freezer and freezing liquids. 2,655,007, Oct. 13.

Leavitt, Frank, assignee: *See*—
Meatte, Henry C.

Lecher, Hans Z.: *See*—
Hardy, William B., and Lecher.

Ledgett, Lowell A., Ridgewood, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Chemical reaction tower. 2,655,435, Oct. 13.

Lee, Ferman N., Danvers, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe bottom ironing device. 2,654,903, Oct. 13.

Lee, Paul R., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control apparatus. 2,655,621, Oct. 13.

Lee, Royal, Elm Grove, Wis. Fuel injection apparatus. 2,655,140, Oct. 13.

Leigan, William E., assignee: *See*—
Kunkel, Elsy O.

Lemelson, Jerome H., Staten Island, N. Y. Toy cap. 2,654,973, Oct. 13.

Lemos, Anthony G., Plainfield, N. J. Window. 2,654,918, Oct. 13.

Le Tourneau, R. G., Inc., assignee: *See*—
Le Tourneau, Robert G.

Le Tourneau, Robert G., Longview, Tex., assignor to R. G. Le Tourneau, Inc., Longview, Tex., and Peoria, Ill. Earth working tool. 2,655,089, Oct. 13.

Le Van, James O., assignor to Hamilton Watch Company, Lancaster, Pa. Equitorque bearing. 2,654,990, Oct. 13.

Levay, Eugene, New York, N. Y. Drum. 2,655,071, Oct. 13.

Levin, Robert H.: *See*—
Marlatt, Paul E., Hanse, McIntosh, and Levin.

Levin, Robert H., A V. McIntosh, Jr., and G. B. Spero, assignors to The Upjohn Company, Kalamazoo, Mich. Adducts of 3-substituted-9,11-oxido-5,7-pregnadien-20-ones. 2,655,499, Oct. 13.

Levin, Robert H., A V. McIntosh, Jr., and G. B. Spero, assignors to The Upjohn Company, Kalamazoo, Mich. 3 - beta - acyloxy - 5,7,9(11) - pregnatrien - 12,20 - diones. 2,655,516, Oct. 13.

Levinson, Doris M.: *See*—
Trope, Davida R., Mock, and Levinson.

Lewis, Allen H., and R. D. Stayner, Berkeley, assignors to California Research Corporation, San Francisco, Calif. Diguanidine amides of alkane phosphonic acids. 2,655,533, Oct. 13.

Lewis, Ernest H., Beverly Hills, Calif, assignor to The Patent and Licensing Corporation, New York, N. Y. Container for collable material. 2,655,262, Oct. 13.

Lewis, John H. W., Chaldon, near Caterham, England. Ironing stand. 2,654,968, Oct. 13.

L'Hollier, Leslie H., Newton, Mass., assignor to The B. F. Goodrich Company, New York, N. Y. Footwear last and assembly thereon. 2,654,904, Oct. 13.

Lightburn, Robert A., Fayson Lakes, N. J., and M. W. Palmer, New York, N. Y., assignors to American Optical Company, Southbridge, Mass. Projector slide film changer. 2,655,075, Oct. 13.

Lighthall, Cone W., assignor to Hoover Ball & Bearing Company, Ann Arbor, Mich. Shielded antifriction bearing. 2,655,392, Oct. 13.

Lilly, Eli, and Company, assignee: *See*—
Jones, Reuben G.
Mills, Jack.

Linch, Adrian L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Stabilized aromatic amines. 2,655,543, Oct. 13.

Lincoln, Edward H.: *See*—
Wright, John B., and Lincoln.

Linder, François, Bois-Colombes, France. Thermally releasable torque limiting clutch. 2,655,015, Oct. 13.

Linderoth, Erik T., Stockholm, Sweden. Regenerative heating apparatus. 2,655,205, Oct. 13.

Lindman, Philip C., Dallas County, Tex. Ornamental ironwork structure. 2,655,345, Oct. 13.

Lintern, A. R., Inc., assignee: *See*—
Spooner, Richard C.

Lister, R. A., & Company Limited, assignee: *See*—
Morris, Alberto J.

Little, John W., Birmingham, Ala., assignor to Goslin-Birmingham Manufacturing Company, Inc. Continuous rotary pressure or vacuum filter. 2,655,265, Oct. 13.

Lodge, Frank, and J. Wardleworth, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Arylaminoacedianthrone isothiouronium salts. 2,655,515, Oct. 13.

Loggins, Lumpkin D., Commerce, Ga. Pressure indicator for pneumatic tires. 2,655,571, Oct. 13.

Longfellow, Harold R., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Winding arbor. 2,655,322, Oct. 13.

Lopker, Frank J.: *See*—
Minor, Burt S., and Lopker.

Lorenz, Anton, Buffalo, N. Y. Reclining article of furniture. 2,655,200, Oct. 13.

Lorenz, Anton, Buffalo, N. Y. Reclining article of furniture. 2,655,201, Oct. 13.

Louckes, Frank L., Memphis, Tenn. Hobbyhorse. 2,655,375, Oct. 13.

Low, Frank D., La Grange Park, Ill., assignor to General Electric Company. Water impervious closure for washing apparatus. 2,655,165, Oct. 13.

Lowe, Alfred B., and R. A. Lowe, Oak Harbor, Ohio. Crop harvesting equipment. 2,655,274, Oct. 13.

Lowe, Raymond A.: *See*—
Lowe, Alfred B., and R. A.

Lowenheim, Frederick A., Plainfield, N. J., assignor to Metal & Thermit Corporation, New York, N. Y. Electrolytic detinning. 2,655,473, Oct. 13.

Loy, Cyril W., and M. H. Mullis, York, S. C. Fluent material distributor. 2,655,406, Oct. 13.

Lucas, Joseph, Limited, assignee: *See*—
Laird, John A.

Lufkin Rule Company, The, assignee: *See*—
Clark, Joseph L.

Luketa, Frank J., Seattle, Wash. Lounge chair. 2,655,199, Oct. 13.

Lundgren, Harold P., Berkeley, and W. Fong, San Francisco, Calif., assignors to United States of America as represented by the Secretary of Agriculture. Wool scouring with composition containing suint, alcohols, ketones, and inorganic electrolytes. 2,655,428, Oct. 13.

Lundquist, Hjalmer, Duluth, Minn. Battery terminal connector. 2,655,640, Oct. 13.

Luttman, Horace C., Etobicoke Township, York County, Ontario, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada. Anticing of compressors of aircraft gas turbine engines. 2,655,308, Oct. 13.

Lyman, Homer F., Nutley, N. J. Dishwashing machine and activating means therefor. 2,655,163, Oct. 13.

Lyman, Homer F., Nutley, N. J. Dishwashing apparatus. 2,655,164, Oct. 13.

Lynxwiler, Thomas L. D., Ingleside, assignor to Mills Industries, Incorporated, Chicago, Ill. Door latch. 2,655,027, Oct. 13.

Lyon Metal Products, Incorporated, assignee: *See*—
O'Connor, John B.

Machlett Laboratories, Incorporated, assignee: *See*—
Doolittle, Howard D., Zarth and Rheaume.

Magnani, Alessandro, Broni, Italy. Method and machine for manufacturing corrugated fibrocement slabs. 2,655,196, Oct. 13.

Maier, Curtis E., Riverside, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Making closure seals by molding and curing. 2,654,913, Oct. 13.

Maier, Curtis E., Riverside, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Forming closure caps by molding and partially fluxing a paste resin composition with subsequent final fluxing thereafter. 2,654,914, Oct. 13.

Maier, Karl L.: *See*—
Dreyfuss, Henry, Winterbottom, and Maier.

Maldague, Pierre E. J. M., assignor to Societe Anonyme John Cockerill, Seraing, Belgium. Installation for the production of hot gases under pressure. 2,655,364, Oct. 13.

Malkemus, John D., Allendale, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Producing monoesters of polyhydric alcohol. 2,655,522, Oct. 13.

Mallory, Roy, Coquille, Oreg. Manually actuated cable hoist. 2,655,342, Oct. 13.

Malmberg, Earl W.: *See*—
Krope, Edward L., and Malmberg.

Malthaner, William A., Summit, and H. E. Vaughan, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. High-speed electronic telephone switching system. 2,655,559, Oct. 13.

Manecke, Siegfried E., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Clothes-drying apparatus. 2,654,961, Oct. 13.

Manganese Battery Corporation, assignee: *See*—
Gullett, William W.

Manning, Maxwell & Moore, Inc., assignee: *See*—
Holdeman, Lloyd H., and Hybarger.

Mansperger, Richard C., North Kansas City, Mo. Soap dispenser. 2,655,290, Oct. 13.

Manteuffel, Allan, Union, G. R. Cook, Northfield, and W. D. Gilson, Crystal Lake, assignors to The Pure Oil Company, Chicago, Ill. Removing active sulfur from sulfurized organic compounds. 2,655,469, Oct. 13.

Marchant, Francis C. I., and J. E. Bell, assignors to The Bristol Aeroplane Company Limited, Bristol, England. Apparatus for preventing or reducing the formation of ice on the air ducts of gas turbine engines. 2,654,992, Oct. 13.

Markle, Frederick J., Tujunga, Calif. Signal for vehicles. 2,655,643, Oct. 13.

Marlatt, Paul E., A. R. Hanze, A. V. McIntosh, Jr., and R. H. Levin, assignors to The Upjohn Company, Kalamazoo, Mich. Steroid ketone adducts. 2,655,500, Oct. 13.

Marple, Rollo, assignor to Hancock Manufacturing Company, Jackson, Mich. Latch mechanism. 2,655,025, Oct. 13.

Marsh Stencil Machine Company, assignee: *See*—
Hempel, Herbert W.

Marshall, John N., Bryn Mawr, Pa., assignor to Radio Corporation of America. Radar ground approach system. 2,655,650, Oct. 13.

Marshall, Joseph F., Cambridge, Mass., assignor to Stromberg-Carlson Company. Means for and method of tuning vibrating bars or rods. 2,655,069, Oct. 13.

Martin, Homer Z.: *See*—
Gohr, Edwin J., Martin, Jahnig, Tyson, and Graham.

Martin, Homer Z., Cranford, N. J., assignor to Standard Oil Development Company. Residuum coking and cracking. 2,655,465, Oct. 13.

Martin, James, Higher Denham, near Uxbridge, England. Parachute and seat harness. 2,655,329, Oct. 13.

Marvin, John T., Dayton, Ohio, assignor to General Motors Corporation, Detroit Mich. Sealing strip. 2,654,919, Oct. 13.

Mason, Charles O. M., Hingham, and H. J. Perry, Atlantic, Mass. Method of and apparatus for forming an open filling-receiving groove in frankfurter rolls and other bakery products. 2,655,190, Oct. 13.

Master Vibrator Company, assignee: *See*—
McCrery, Harold E.

Mauchly, John W.: *See*—
Eckert, John P., Jr., and Mauchly.

Maxim Silencer Company, The, assignee: *See*—
Tyskewicz, John P.

May, Otto H., Schwabisch Gmund, Germany. Making cupped shells. 2,654,942, Oct. 13.

Mayland, Bertrand J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Process and apparatus for the manufacture of synthesis gas. 2,655,442, Oct. 13.

McBee Company, The, assignee: *See*—
Dutro, Orville V., and L. V. Dutro, and Nameth.

McClure, Nicholas, Chicago, Ill., and S. D. Stacy, assignors to American Box Board Company, Grand Rapids, Mich. Sheet stacking and delivering machine. 2,655,272, Oct. 13.

McCombie, John T.: *See*—
Coppock, Mulligan, McCombie and White.

McCord Corporation, assignee: *See*—
Cooper, James H.

McCrery, Harold E., assignor to Master Vibrator Company, Dayton, Ohio. Flexible shaft. 2,655,012, Oct. 13.

McCullough, Paul J., assignor to The Toastswell Company, Inc., St. Louis, Mo. Toaster with quick release crumb tray. 2,655,095, Oct. 13.

McDonald, Angus, assignor to Baldwin Rubber Company, Pontiac, Mich. Apparatus for manufacturing floor mats. 2,654,910, Oct. 13.

McDonald, Harry W., Minneapolis, Minn., assignor to McDonald Hydraulic Drilling Co., Inc., Aberdeen, S. Dak. Rotary bit operating mechanism. 2,655,344, Oct. 13.

McDonald Hydraulic Drilling Co., Inc., assignee: *See*—
McDonald, Harry W.

McDonnell Aircraft Corporation, assignee: *See*—
Etherton, Murray D.
Ostroff, Harold H.

McGoldrick, William J., Edina, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control apparatus for aircraft. 2,655,327, Oct. 13.

McGowan, Dorothy M., assignor of 50% to J. R. McGowan, Parkland, Wash. Combination curtain, shade, and drapery bracket. 2,655,336, Oct. 13.

McGowan, John R., assignee: *See*—
McGowan, Dorothy M.

McGraw Electric Company, assignee: *See*—
Clark, Philip B.

McGrew, Robert F.: *See*—
Turner, Milton L., and McGrew.

McIntosh, A Vern, Jr.: *See*—
Levin, Robert H., McIntosh, and Spero.
Marlatt, Paul E., Hanze, McIntosh, and Levin.

McMillan, Gilbome W. J., Montebello, Calif. Lifting device for substructure covers. 2,655,399, Oct. 13.

McNulty, George M., and T. Cross, Jr., Union, N. J., assignors to Standard Oil Development Company. Alkylation of phenols with polypropylene. 2,655,544, Oct. 13.

McWade, John E., Havertown, Pa., assignor to Radio Corporation of America. Electric motor type of servo mechanism for filter tuning. 2,655,627, Oct. 13.

McWilliams, Carl E.: *See*—
Brown, William E., Redick, and McWilliams.

Mead, Howard C.: *See*—
Michel, Clarence A., Mead, Diedring, and Barcus.

Meadows, James J.: *See*—
Hice, Jaxon O., and Meadows.

Meaker, Stanleigh R., Clyde, N. Y. Amalgamator mixer. 2,655,353, Oct. 13.

Meatte, Henry C., assignor of fifty percent to F. Leavitt, St. Louis, Mo. Magazine fed sinker applying pliers. 2,655,062, Oct. 13.

Medcalf, Eugene C.: *See*—
Cooper, Hal B. H., and Medcalf.

Meeker, Willard F.: *See*—
Slaymaker, Frank H., and Meeker.

Mepco, Inc., assignee: *See*—
Kirby, Leonard, Jr., and Erickson.

Merck & Co., Inc., assignee: *See*—
Cope, Arthur C.

Merritt, Norman A., Wilmington, N. C. Christmas tree support. 2,655,331, Oct. 13.

Metal & Thermit Corporation, assignee: *See*—
Lowenheim, Frederick A.

Metalwash Machinery Company, assignee: *See*—
Zademach, Erich R., and Clarke.

Michel, Clarence A., H. C. Mead, J. H. Diedring, and E. L. Barcus, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Vehicle auxiliary light. 2,655,592, Oct. 13.

Midland Steel Products Company, The, assignee: *See*—
Almond, John R.

Midwest Metal Stamping Co., assignee: *See*—
Holmdahl, Arthur C.

Milberger, Ernest C.: *See*—
Hughes, Everett C., and Milberger.

Miller, Arthur E., Milwaukee, Wis. Lawn trimmer and edger. 2,654,965, Oct. 13.

Miller, Francis C., Red Lion, Pa. Table game. 2,655,379, Oct. 13.

Miller, H. B., Limited, assignee: *See*—
Miller, Peter S.

Miller, Louis, Wathena, Kans. Chinchilla cage. 2,655,129, Oct. 13.

Miller, Peter S., St. Laurent, Quebec, assignor to H. B. Miller Limited, Montreal, Quebec, Canada. Combination display device and mailing piece. 2,654,970, Oct. 13.

Miller Printing Machinery Co., assignee: *See*—
Ross, Frank A.

Mills, Edward L., and D. A. Donahue, assignors to Buchanan Steel Products Corporation, Buchanan, Mich. Sickle guard. 2,654,987, Oct. 13.

Mills Industries, Incorporated, assignee: *See*—
Hehn, Louis F.
Lynxwiler, Thomas L. D.

Mills, Jack, assignor to Eli Lilly and Company, Indianapolis, Ind. 1 - p - chlorophenyl-2-phenyl - 4 - (N-pyrrolidino)-butenes. 2,655,509, Oct. 13.

Milne, Winford G., Hamilton, Ontario, and R. E. Jones, Toronto, Ontario, assignors to N. Slater Company Limited, Hamilton, Ontario, Canada. Drop out fuse switch. 2,655,576, Oct. 13.

Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, assignee: *See*—
Gordon, James E., and Evans.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Barnes, George W., Jr.
Divette, Randolph E., Gille, and Huntington.
Dreyfuss, Henry, Winterbottom, and Maier.
Frystak, Theodore K.
Gess, Louis.
Hart, John V., and Lakjer.
McGoldrick, William J.
Roetter, Robert P.

Minor, Burt S., Whittier, and F. J. Lopker, Los Angeles, assignors to Regan Forge & Engineering Co., San Pedro, Calif. Apparatus for measuring pipe in or out of holes. 2,655,633, Oct. 13.

Mixer, Robert Y.: *See*—
Barusch, Maurice R., and Mixer.

Mixxy, Inc., assignee: *See*—
Rubin, Louis B.

Mobley, Shelton L., Waycross, Ga. Signaling device for motor vehicles. 2,655,123, Oct. 13.

Mock, Flora C.: *See*—
Trope, Davida R., Mock, and Levinson.

Moe, Halfdan N., assignor to I/S Interply, Oslo, Norway. Means for producing tubular bodies from wood by coiling up veneer sheets. 2,655,187, Oct. 13.

Moldt, Verne G., Trenton, N. J., assignor to St. Regis Paper Company, New York, N. Y. Box construction. 2,655,283, Oct. 13.

Möller, Ragnar O. J.: *See*—
Lange, Per G., and Möller.

Monsanto Chemical Company, assignee: *See*—
De Garmo, Oliver, and Guthrie.
Weinkauff, Oliver J.

Montalto, George J., assignor to Telephonics Corporation, Huntington, N. Y. Impulse switch silencer. 2,655,052, Oct. 13.

Moore, Frederic H., Long Beach, Calif., assignor to The Texas Company, New York, N. Y. Synthesis gas generation. 2,655,443, Oct. 13.

Mordt, Oliver, Hartsdale, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J. Recovery of phenol from extracts. 2,655,462, Oct. 13.

Morris, Alberto J., assignor to R. A. Lister & Company Limited, Dursley, England. Control device for fuel systems. 2,654,994, Oct. 13.

Morris, Pickens, assignee: *See*—
Johnson J. B.

Morrison, Burton W., Boxboro, Mass., assignor to The B. F. Goodrich Company, New York, N. Y. Pressing apparatus for footwear and the like. 2,654,901, Oct. 13.

Moser, Edward F., Kane, Pa. Measuring apparatus. 2,654,955, Oct. 13.

Mount Sinai Hospital Research Foundation, Inc., assignee: *See*—
Sobotka, Harry.

Mueller Co., assignee: *See*—
Smith, John J.

Mulligan, Lily: *See*—
Coppock, Philip D., Mulligan, McCombie and White.

Mullis, Maxwell H.: *See*—
Loy, Cyril W., and Mullis.

Munday, John C., Cranford, and D. T. Rogers, Summit, N. J., assignors to Standard Oil Development Company. Polyester pour depressants. 2,655,479, Oct. 13.

Murphree, Eger V., Summit, N. J., assignor to Standard Oil Development Company. Electrical resistivity dip meter. 2,655,632, Oct. 13.

Murphy, Hugh, Lambertville, N. J. Wrench having leaf spring jaw. 2,655,065, Oct. 13.

Murray Corporation of America, The, assignee: *See*—
Gould, Byron C.

Murray, Jerome L., Stamford, Conn., assignor to Pollard & Johnston, New York, N. Y. Mixer and processor for home use and the like. 2,655,354, Oct. 13.

Musilli, Louis C., Detroit, Mich. Shock absorbing device. 2,655,369, Oct. 13.

Nabors, William C., Mansfield, La. Spring suspension for vehicle trailers. 2,655,388, Oct. 13.

Nameth, James F.: *See*—
Dutro, Orville V., and L. V. Dutro, and Nameth.

Napoli, John, Monterey, Calif. Pump and turbine hydraulic drive. 2,655,001, Oct. 13.

Nathan, Alan H.: *See*—
Hogg, John A., Korman, Reid., and Nathan.

National Cash Register Company, The, assignee: *See*—
Sandberg, Robert W.

National Cylinder Gas Company, assignee: *See*—
Eichelman, Francis J.

National Lead Company, assignee: *See*—
Herman, Daniel F.

National Supply Company, The, assignee: *See*—
Young, Forrest J.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Burrell, Ellis.
Cole, Richard W.
Hansche, George E.

Naylor, Joshua C., and J. N. Fieldhouse, assignors to Vickers-Armstrongs Limited, London, England. Pump and double-acting motor hydraulic system, including control valve mechanism. 2,654,998, Oct. 13.

Neal, William E., Houston, Tex., assignor, by decree of court, of one-half to C. Dover. Selective charge-firing equipment. 2,655,619, Oct. 13.

Neff, Henry W., assignor to Power Brake Parts Manufacturing Company, Detroit, Mich. Air compressor system. 2,655,306, Oct. 13.

Neher, Milton L., Coral Gables, Fla. Cylinder feeding device for progressive washing machines. 2,655,021, Oct. 13.

Neild, William G., Fairlawn, assignor to Bendix Aviation Corporation, Teterboro, N. J. Carbon pile regulator. 2,655,581, Oct. 13.

Nelson, Joseph F.: *See*—
Banes, Fred W., Fitzgerald, and Nelson.

Neschke, Richard J., Los Angeles, Calif. Toe stop for roller skates. 2,655,385, Oct. 13.

Nettel, Frederick, Manhasset, N. Y. Control for engine turbosupercharger systems. 2,654,991, Oct. 13.

Neuls, Frederick C., assignor to The G. S. Blodgett Co., Inc., Burlington, Vt. Sheet metal mixer for gas burners. 2,655,210, Oct. 13.

Nevins, J. F., trustee, assignee: *See*—
House, Samuel G., and Hobbs.

Nevison, John A., Media, assignor to The Atlantic Refining Company, Philadelphia, Pa. Purifying alkylated aryl sulfonate detergents. 2,655,530, Oct. 13.

Newman, Douglas A., Port Washington, assignor to Columbia Ribbon and Carbon Manufacturing Company, Inc., Glen Cove, N. Y. Planographic plate and making same. 2,655,101, Oct. 13.

Newton, David L., Niagara Falls, Ontario, Canada. Oil burner. 2,655,209, Oct. 13.

Nichols, Mabel T., executrix: *See*—
Nichols, Malcolm P.

Nichols, Malcolm P., deceased, North Haven, Conn., by M. T. Nichols, executrix, assignor to The E. Ingraham Company, Bristol, Conn. Timekeeping magnetic escapement and rotor unit therefor. 2,654,989, Oct. 13.

Niemann, Henry F. assignor of fifty percent to S. D. Beckley, Sedalia, Mo. Device for recrimping the head seams of drums. 2,655,120, Oct. 13.

Nilsson, Einar W., Youngstown, Ohio. Apparatus for processing round bars and tubes. 2,655,194, Oct. 13.

Oblasney, Joseph F., Camden, N. J. Cellar window hook. 2,655,396, Oct. 13.

O'Brien, Laurence A., South Orange, N. J., assignor to the United States of America as represented by the Secretary of War. Ice guard. 2,655,106, Oct. 13.

O'Connor, John B., assignor to Lyon Metal Products, Incorporated, Aurora, Ill. Locker wardrobe. 2,655,424, Oct. 13.

Oerding, Charles H., Coquille, Oreg. Automatic cigarette dispenser. 2,655,418, Oct. 13.

Oglebay, Norton and Company, assignee: *See*—
Trask, Harold V., and Haley.

Ohio Crankshaft Company, The, assignee: *See*—
Gardner, Robert P. G.
Keller, Harry L.
Pliske, Berthold H.
Sorensen, Phillips N.
Wadhams, James B.

Oles, David: *See*—
Dunn, Henry M., and Oles.

Olin Industries, Inc., assignee: *See*—
Zvanut, Carl M.

Olson, Oliver D., assignee: *See*—
Thompson, Thomas F.

Osborn Manufacturing Company, The, assignee: *See*—
Delenk, Wolfram N.

Osborne, Herbert C., assignor to Webster Electric Company, Racine, Wis. Pump. 2,655,108, Oct. 13.

Ostroff, Harold H., Ferguson, assignor to McDonnell Aircraft Corporation, St. Louis, Mo. Maximum-minimum fuel flow regulator responsive to ram jet engine ram pressure. 2,654,995, Oct. 13.

Otto, Earl A.: *See*—
Figore, Roland E., and Otto.

Outterson, George G., Mexico, N. Y. Safety control system for fuel burners. 2,655,207, Oct. 13.

Outterson, George G., Mexico, N. Y. Electrical control for combustion systems. 2,655,208, Oct. 13.

Overbeke, John W., Cleveland Heights, assignor to The Parker Appliance Company, Cleveland, Ohio. Piston actuated sleeve type relief valve. 2,655,173, Oct. 13.

Owens-Illinois Glass Company, assignee: *See*—
Hohl, John, and Pim.

Owens, Jesse C., Los Angeles, Calif. Antisiphonic and sound-reducing valve. 2,655,172 Oct. 13.

Owner, Frank M., assignor to The Bristol Aeroplane Company Limited, Bristol, England. Gas turbine engine with multiple turbines. 2,654,993, Oct. 13.

Palmer, Mervyn W.: *See*—
Lightburn, Robert A., and Palmer.

Palsson, Lennart P., Karlskoga, assignor to Aktiebolaget Bofors, Bofors, Sweden. Servo mechanism. 2,655,133, Oct. 13.

Parker Appliance Company, The, assignee: *See*—
Overbeke, John W.

Parker, Harry L., St. Albans, assignor to American Speedlight Corporation, New York, N. Y. Electronic flash device. 2,655,618, Oct. 13.

Parker, William N., Lancaster, Pa., assignor to Radio Corporation of America. Electrical transformer. 2,655,623, Oct. 13.

Parkey, Catherine L., Wishram, Wash. Hair curling device. 2,655,159, Oct. 13.

Parre, Edwin: *See*—
Stoner, Harry B., Parre, and Rogers.

Partin, Allen G., Pontiac, Mich. Meat holding device. 2,655,191, Oct. 13.

Parva Products Company, assignee: *See*—
White, Paul W.

Patch, Harry M., Seattle, Wash. Torque proportioning differential. 2,655,053, Oct. 13.

Patent and Licensing Corporation, The, assignee: *See*—
Lewis, Ernest H.

Paterson, George M.: *See*—
Paterson, John M. and G. M.

Paterson, John M., Glendale, and G. M. Paterson, Los Angeles, Calif. Carpet anchoring strip. 2,654,909, Oct. 13.

Payne, Arthur W., assignor to Bundy Tubing Company, Detroit, Mich. Apparatus for bending tubing into serpentine form. 2,655,193, Oct. 13.

Peake, Andrew E., and P. T. Kley, Primghar, Iowa. Tractor mounted windrowing attachment. 2,654,983, Oct. 13.

Peal, J. Floyd, Los Angeles, Calif. Sanitary cream dispenser. 2,655,289, Oct. 13.

Pedlow, John W.: *See*—
Allen, George M., and Pedlow.

Penkuhn, Arno L. K.: *See*—
Grodzinski, Paul, and Penkuhn.

Pennsylvania Railroad Company, The, assignee: *See*—
Steins, Carleton K., and Keller.

Perry, Henry J.: *See*—
Mason, Charles O. M., and Perry.

Persson, Ernest, New York, assignor to The International Postal Supply Company, Brooklyn, N. Y. Rotary numbering machine. 2,655,100, Oct. 13.

Persson, Ernest, New York, assignor to The International Postal Supply Company, Brooklyn, N. Y. Operational lock means for postage metering devices. 2,655,315, Oct. 13.

Pestarini, Joseph M., Staten Island, N. Y. Drilling device. 2,655,343, Oct. 13.

Peters, Harry, Middletown, and W. J. Tilton, Franklin, assignors to The Raymond Bag Company, Middletown, Ohio. Bunching and counting mechanism. 2,655,083, Oct. 13.

Peterson, Elwin L., Falls Church, Va. Preloaded air release chuck. 2,655,384, Oct. 13.

Peterson, George, Jr., St. Davids, Pa., assignor to Riverside Metal Company, Riverside, N. J. Position indicator. 2,655,647, Oct. 13.

Peterson, John B., deceased, Bethesda, Md.; R. L. Peterson, administratrix, assignor to Bendix Aviation Corporation. Water speed integrator and indicator. 2,655,040, Oct. 13.

Peterson, Ruth L., administratrix: *See*—
Peterson, John B.

Petro-Chem Process Company Incorporated, assignee: *See*—
Throckmorton, John W., and Wallis.

Pettigrew, David D.: *See*—
Eschenburg, William A., Pettigrew, and Johnson.

Pfeifer, Raymond B., and L. G. Heyden, assignors of one-third to R. H. Wendt, Chicago, Ill. Visor supported pocket for automotive vehicles. 2,655,299, Oct. 13.

Phares, Thomas E., Shelbyville, Ind., assignor to Chambers Corporation. Safety device for gas ovens. 2,655,142, Oct. 13.

Phelps, Louis F., Flint, Mich. Scribing instrument. 2,654,953, Oct. 13.

Phillips, Arthur P., New York, and J. C. Castillo, White Plains, assignors to Burroughs Wellcome & Co., (U. S. A.) Inc., Tuckahoe, N. Y. Quaternary salts of γ-stilbazolines. 2,655,503, Oct. 13.

Phillips Petroleum Company, assignee: *See*—
Groebe, John L.
Mayland, Bertrand J.
Snow, Robert D.

Pidacks, Charles, Spring Valley, and E. E. Starbird, Nanuet, assignors to American Cyanamid Company, New York, N. Y. Recovery of chlortetracycline. 2,655,535, Oct. 13.

Pim, Richard A.: *See*—
Hohl, John, and Pim.

Pioneer Fencing Co., Inc., assignee: *See*—
Hoen, Kenneth H., and Archer.

Pitman, Henry L., Melbourne, Fla., assignor to Underwood Corporation, New York, N. Y. Automatic clear sign printing mechanism. 2,655,311, Oct. 13.

Pittinger, Abraham L., China Lake, Calif. Explosion-proof acoustic device. 2,655,566, Oct. 13.

Planeta, Paul H., East Hampton, Conn. Combination drainer basket and receptacle support. 2,655,267, Oct. 13.

Pliske, Berthold H., assignor to The Ohio Crankshaft Company, Cleveland, Ohio. Variable ratio transformer. 2,655,636, Oct. 13.

Pojman, Louis A.: *See*—
Bobaboy, Edward J., and Pojman.

Polivka, Rudolph J.: *See*—
Halvorsen, Russell V., Krause, and Polivka.

Pollard & Johnston, assignee: *See*—
Murray, Jerome L.

Poloron Products, Inc., assignee: *See*—
Brown, Joseph D.

Polymer Corporation Limited, assignee: *See*—
Williams, Harry L.

Poor & Company, assignee: *See*—
Chester, Allan E.

Poupitch, Ougljesa J., Itasca, assignor to Illinois Tool Works, Chicago, Ill. Fastener with spreading means. 2,655,072, Oct. 13.

Power Brake Parts Manufacturing Company, assignee: *See*—
Neff, Henry W.

Power Jets (Research & Development) Limited, assignee: *See*—
Walker, Daniel N.

Prance, Edgar E., Quitman, Ga. Truss. 2,655,149, Oct. 13.

Pratt, John H., La Crescenta, Calif., assignor to Radio Corporation of America. Scan apparatus. 2,655,628, Oct. 13.

Precision Building System, Inc., assignee: *See*—
Zagray, Harold F.

Price, John A., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Polymerizable and polymerized compositions comprising an O-allylisourea. 2,655,493, Oct. 13.

Przybylski, Daniel F., Winona, Minn. Bucket carrying turn post for diggers. 2,655,269, Oct. 13.

Pure Oil Company, The, assignee: *See*—
Manteuffel, Allan, Cook, and Gilson.

Quaker Oats Company, The, assignee: *See*—
Dunlop, Andrew P., and Swadesh.

Radakovich, Fred: *See*—
Kuettler, Arthur, Jr., and Radakovich.

Radio Corporation of America, assignee: *See*—
Abelson, Robert C.
Allen, Horace C., and Ballard.
Hanchett, George D., Jr.
Law, Harold B.
Marshall, John N.
McWade, John E.
Parker, William N.
Pratt, John H.
Schrader, Harold J.
Woodward, Oakley M., Jr.

Rakowitsky, Eli, administrator: *See*—
Rakowitsky, Gregor H.

Rakowitsky, Gregor H., deceased, Kings County, N. Y.; E. Rakowitsky, administrator. Slide fastener. 2,654,930, Oct. 13.

Ransburg, Edwin M., assignor, by mesne assignments, to Ransburg Electro-Coating Corp., Indianapolis, Ind. Electrostatic coating apparatus. 2,655,128, Oct. 13.

Ransburg Electro-Coating Corp., assignee: *See*—
Ransburg, Edwin M.

Ransom, John B., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y. Collar support. 2,655,295, Oct. 13.

Raymond Bag Company, The, assignee: *See*—
Peters, Harry, and Tilton.

Raymond Concrete Pile Company, assignee: *See*—
Kinneman, William P.

Redick, David C.: *See*—
Brown, William E., Redick, and McWilliams.

Reed, Thomas F.: *See*—
Bishop, Charles A., and Reed.

Rees, Frank X., Chili, N. Y. Remote-control system. 2,655,644, Oct. 13.

Reeves, Alec H., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electric delay device employing semiconductors. 2,655,607, Oct. 13.

Refrigeration Systems, Inc., assignee: *See*—
Lazar, Joseph H.

Regan Forge & Engineering Co., assignee: *See*—
Minor, Burt S., and Lopker.

Reich, Irving: *See*—
Spitzer, Joseph G., Reich, and Fine.

Reid, William B., Jr.: *See*—
Hogg, John A., Korman, Reid, and Nathan.

Rheaume, Raymond H.: *See*—
Doolittle, Howard D., Zarth, and Rheaume.

Rhodes, Edwin C., London, and D. W. Rhys, Hounslow, England, assignors to The International Nickel Company, Inc., New York, N. Y. Soldered joint for chromium alloy gas turbine structures. 2,654,946, Oct. 13.

Rhys, David W.: *See*—
Rhodes, Edwin C., and Rhys.

Rice, Chester S.: *See*—
Buckland, Bruce O., and Rice.

Richardson, Dow C., Metropolis, Ill. Single cylinder fluid-actuated log turner. 2,655,185, Oct. 13.

Richardson, Dow C., Metropolis, Ill. Power-operated log turner with fulcrum stop. 2,655,186, Oct. 13.

Richardson, Linwood T., Waukesha, and M. R. Swinehart, Genesee Township, Waukesha County, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Electrical contact. 2,654,945, Oct. 13.

Richter, Bruno, Glen Ellyn, Ill. Valvulotome. 2,655,154, Oct. 13.

Rickenbach, Harry C., Gibsonia, Pa. Stamp holder for embossing dies. 2,655,009, Oct. 13.

Riemer, John, Green Bay, Wis., assignor to Kraft Foods Company. Container handling device with plural container magazines for feeding containers to the handling devices in filling machines. 2,655,901, Oct. 13.

Riley, John W., State College, N. Mex. Gun carriage attachment for vehicle dash panels. 2,655,298, Oct. 13.

Riverside Metal Company, assignee: *See*—
Peterson, George, Jr.

Robinson, George B., Napa, Calif. Mechanical pronating and supinating wrist. 2,654,891, Oct. 13.

Rockwell Manufacturing Company, assignee: *See*—
Eschenburg, William A., Pettigrew, and Johnson.

Rockwell Tools, Inc., assignee: *See*—
Hull, Henry E.

Roe, A. V., Canada Limited, assignee: *See*—
Kelk, George F.
Luttman, Horace C.

Roe, Herbert J.: *See*—
Wood, David H., and Roe.

Roehrig, Frederick L. O., Yucaipa, Calif. Swing lens camera. 2,655,084, Oct. 13.

Roetter, Robert P., Gary, Ind., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Pneumatic motor for unit ventilators. 2,655,180, Oct. 13.

Rogers, Dilworth T.: *See*—
Munday, John C., and Rogers.

Rogers, Gordon: *See*—
Stoner, Harry B., Parre, and Rogers.

Rogers, Raymond A.: *See*—
Fischer, Paul W., and Rogers.

Rohrer, Waymond C., Norfolk, Nebr. Scalp massaging exhilarating and dandruff removing device. 2,655,147, Oct. 13.

Rollin, Bernard V., Oxford, England, assignor to English Electric Valve Company, Limited. Magnetron. 2,655,616, Oct. 13.

Rollins, Lester G., Franklin, assignor to Joy Manufacturing Company, Pittsburgh, Pa. Chain guide for disintegrating apparatus. 2,655,362, Oct. 13.

Rolls-Royce Limited, assignee: *See*—
Corbitt, Robert W., and Dale.

Roof, Jay L., Hamburg, N. Y. Furnace valve construction. 2,655,363, Oct. 13.

Rosenleaf, John R.: *See*—
Eckart, De Merle E., and Rosenleaf.

Rosenthal, Daniel, Brooklyn, N. Y. Drinking vessel with animated display. 2,654,974, Oct. 13.

Ross, Frank A., Ross Township, Allegheny County, assignor to Miller Printing Machinery Co., Pittsburgh, Pa. Intaglio printing press. 2,655,102, Oct. 13.

Rossire, Francis H. S., Leonia, assignor to Bendix Aviation Corporation, Teterboro, N. J. Brake mechanism. 2,655,231, Oct. 13.

Rotax Limited, assignee: *See*—
Bourne, William G.

Roulements a Billes Miniatures S. A., assignee: *See*—
Annen, Robert.

Roundtree, John C., Pampa, Tex. Measuring and packaging machine. 2,655,291, Oct. 13.

Ruben, Louis A., Bayonne, N. J. Chord-playing harmonica. 2,655,068, Oct. 13.

Rubin, Louis B., Springfield Gardens, assignor to Mixy, Inc., New York, N. Y. Dental cavity lining device. 2,654,948, Oct. 13.

Russell, Homer A., Portland, Oreg. Adjustable connector device for mop or broom handles. 2,655,413, Oct. 13.

Russell, Kenneth F., assignor to H. H. Garner, Claremont, Calif. Air cleaner for automotive vehicles. 2,655,221, Oct. 13.

Ryan Aeronautical Co., The, assignee: *See*—
Floersch, Bernard W.

Ryon, Eppa H., Pasadena, Calif. Floor furnace valve. 2,655,177, Oct. 13.

S & W Fine Foods, Inc., assignee: *See*—
Carroll, Ellsworth W., Edgemond, and Jespersen.

Sacchetti, Nicholas, Upper Darby, Pa. Shoulder press machine. 2,655,294, Oct. 13.

Sagner, Walter T., West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y. Tabulating mechanism for typewriters and like machines. 2,655,245, Oct. 13.

St. John, George E., Palmdale, Calif. Automatic key ejector. 2,655,569, Oct. 13.

St. Regis Paper Company, assignee: *See*—
Moldt, Verne G.

Salmon, Reginald D., assignor to Creed and Company Limited, Croydon, England. Printing telegraph apparatus. 2,655,535, Oct. 13.

Sanborn, William L., Whitefish Bay, Wis. Multiple pump. 2,655,110, Oct. 13.

Sandberg, Robert W., assignor to The National Cash Register Company, Dayton, Ohio. Manifold sheet having a crush-resistant transfer film. 2,655,453, Oct. 13.

Sapp, John P.: *See*—
Sternad, Frank S., and Sapp.

Sargent, Herbert: *See*—
Ladd, Elbert C., and Sargent.

Sarosdy, Louis J., assignor, by mesne assignments, to Law-Knox Company, Pittsburgh, Pa. Valved water inlet nozzle for concrete mixers or the like. 2,655,178, Oct. 13.

Savard, Arthur J., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Thermal shroud for engine mounts. 2,655,090, Oct. 13.

Scalera, Mario, and H. E. Westlake, Jr., Somerville, N. J., assignors to American Cyanamid Company, New York, N. Y. Dyestuffs of the benzanthrone acridine series. 2,655,502, Oct. 13.

Schaap, Theodore, Muskegon, Mich. Collapsible closure. 2,655,211, Oct. 13.

Schanslin, Ernest H., Cleveland, Ohio, assignor to Borg-Warner Corporation, Chicago, Ill. Fluid circulating arrangement for hydraulic pressure systems. 2,655,111, Oct. 13.

Scheib, Richard, Jr., Hempstead, N. Y., assignor to The Sperry Corporation. Linear motion magnetic motor. 2,655,132, Oct. 13.

Schiermeier, Knapel F., Alton, Ill., assignor to Shell Development Company, San Francisco, Calif. Making calcium sulfate from refinery waste acid. 2,655,430, Oct. 13.

Schilling, Paul K., Waterville, Maine, assignor, by mesne assignments, to General Package Corporation. Egg carton. 2,655,305, Oct. 13.

Schlage, Ernest L., Burlingame, Calif., assignor to Schlage Lock Company. Faceplate for door locks. 2,655,030, Oct. 13.

Schlage Lock Company, assignee: *See*—
Schlage, Ernest L.

Schleimer, Floyd V., San Francisco, Calif. Flexible-conduit cutting tool. 2,654,941, Oct. 13.

Schlumbohm, Peter, New York, N. Y. Centrifugal fan. 2,655,310, Oct. 13.

Schmidt-Thomé, Josef, Frankfurt am Main Unterliederbach, assignor to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius and Brüning, Frankfurt am Main Hochst, Germany. Preparing aminocompounds of the steroid series. 2,655,519, Oct. 13.

Schmidt-Thomé, Josef, Frankfurt am Main Unterliederbach, assignor to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius und Brüning Frankfurt am Main Hochst, Germany. Preparing aminocompounds of the steroid series. 2,655,520, Oct. 13.

Schofield, Earl L., Rockford, Ill., assignors, by mesne assignments, to Superior Coach Corporation, Lima, Ohio. Convertible seat. 2,655,197, Oct. 13.

Schrader, Harold J., Haddonfield, N. J., assignor to Radio Corporation of America. Radio navigation system. 2,655,648, Oct. 13.

Schreiner, Norman G., Philadelphia, Pa., and E. A. Clapp, Niagara Falls, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Multiple electrode polyphase arc welding. 2,655,586, Oct. 13.

Schulze, Arthur R., Youngstown, Ohio, assignor to United States Steel Corporation. Resilient cushion utilising side-loaded helical springs. 2,655,370, Oct. 13.

Schutze, Henry G., and H. E. Cler, Baytown, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Photochemical production of olefinic hydrocarbons. 2,655,474, Oct. 13.

Schwaneke, Fred C., assignor to Dormeyer Corporation, Chicago, Ill. Switch. 2,655,372, Oct. 13.

Sciascia, Matthew: *See*—
Farber, Eduard, and Sciascia.

Scoles, Graham J., London, England, assignor to General Electric Company. Limiting amplifier. 2,655,597, Oct. 13.

Scott Aviation Corporation, assignee: *See*—
Cupp, Charles D.

Scott, Bessie L., Altus, Okla. Frame for making scalloped crochet edging. 2,655,017, Oct. 13.

Sea Island Mills, Inc., assignee: *See*—
Wright, William E.
Wright, William E., and Bond.

Seapak Corporation, assignee: *See*—
Hice, Jaxon O., and Meadows.

Searle, G. D., & Co., assignee: *See*—
Colton, Frank B.
Krimmel, Carl P.

Searle, Norman E., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparation of N-aromatic-N'-aliphatic hydrocarbon ureas. 2,655,534, Oct. 13.

Seifried, Paul E., New City, N. Y., assignor to Bendix Aviation Corporation, Teterboro, N. J. Gyroscope instrument. 2,655,046, Oct. 13.

Seldin, Leon, River Edge, assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J. Television circuit. 2,655,615, Oct. 13.

Serniuk, George E.: *See*—
Welch, Lester M., and Serniuk.

Serval Slide Fasteners, Inc., assignee: *See*—
Voity, Maurice.

Sharlip, Edgar Y., Philadelphia, and A. P. Dunbrack, Springfield, Pa., assignors to The Dentists' Supply Company of New York, New York, N. Y. Automatic mold cleaning machine. 2,654,911, Oct. 13.

Sheffer, Andrew D., Brighton, Mich. Golf instruction apparatus. 2,655,378, Oct. 13.

Shell Development Company, assignee: *See*—
Schiermeier, Knapel F.

Sherman, Floyd A., Birmingham, assignor to Whitsser Motor Company, Pontiac, Mich. Alternating current generator. 2,655,611, Oct. 13.

Shockley, William, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Bistable circuits, including transistors. 2,655,600, Oct. 13.

Shultise, Quido M.: *See*—
Wolfe, Charles M., Shultise, and Grow.

Shuman, Albert C.: *See*—
Gilkey, William K., and Shuman.

Siegerist, Walter, University City, Mo. Feeding and clamping means for centerless bar turning machines. 2,655,066, Oct. 13.

Siering, Robert L., assignor to Johns-Manville Corporation, New York, N. Y. Heat exchange and sound absorbing wall unit. 2,655,348, Oct. 13.

Silcraft Corporation, assignee: *See*—
Smith, Edward J.

Sillers, Thomas G. A., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Arc chute with notched barrier plates. 2,655,578, Oct. 13.

Simanek, Edward J., assignor to American Steel Foundries, Chicago, Ill. Fabricated brake beam. 2,655,235, Oct. 13.

Simmons, Jack W., assignor to Elberta Crate & Box Company, Tallahassee, Fla. Chick crate water holder. 2,655,130, Oct. 13.

Simon, Otis W., and G. B. Carmack, Bonners Ferry, Idaho. Ratcheting wrench. 2,655,064, Oct. 13.

Singer Manufacturing Company, The, assignee: *See*—
Enos, John P.

Slack, Alfred W., Plainfield, and R. A. Snyder, Gillette Heights, assignors to Worthington Corporation, Harrison, N. J. Batch meter for concrete mixing apparatus. 2,655,355, Oct. 13.

Slater, N., Company Limited, assignee: *See*—
Milne, Winford G., and Jones.

Slaymaker, Frank H., and W. F. Meeker, Rochester, N. Y., assignors to Stromberg-Carlson Company. Damping means for tone generators. 2,655,070, Oct. 13.

Slifkin, Sam C., Holyoke, Mass., assignor to General Aniline & Film Corporation, New York, N. Y. Diazotype photoprinting process. 2,655,448, Oct. 13.

Sloan, Harry, Brookfield, and E. J. Kocher, assignors to The Vilter Manufacturing Co., Milwaukee, Wis. Liquid refrigerant transfer in refrigeration system. 2,655,008, Oct. 13.

Sloan, Jervis H., St. Louis, and M. H. Gilkerson, Chesterfield, Mo. Shoe with insole exposable to view. 2,654,965, Oct. 13.

Slomp, George, Jr., assignor to The Upjohn Company, Kalamazoo, Mich. Steroid cyanohydrins. 2,655,517, Oct. 13.

Slovin, David G., Providence, R. I., assignor to United States Rubber Company, New York, N. Y. Ribbon rubber thread splitter. 2,654,936, Oct. 13.

Small, Everett T., Los Angeles, Calif. Scarifier tooth attachment for bulldozers. 2,654,967, Oct. 13.

Smith, Edward J., Paxton, assignor to Silcraft Corporation, Worcester, Mass. Starting device. 2,655,047, Oct. 13.

Smith, John J., assignor to Mueller Co., Decatur, Ill. Pipe line stopper. 2,655,339, Oct. 13.

Smith, Keith J., Alhambra, assignor to Calcraft Company, Pasadena, Calif. Hand loom. 2,654,937, Oct. 13.

Smith, Lester H., Maplewood, N. J., assignor to Standard Oil Development Company. Method and apparatus for handling fluidizable finely divided solid materials. 2,655,411, Oct. 13.

Smolensky, Michael, Cleveland, Ohio. Double-acting liquid dispensing fixture. 2,655,179, Oct. 13.

Snead, Edwin B., Austin, Tex. Supporting and auxiliary driving means for conveyer belts. 2,655,253, Oct. 13.

Snow, Robert D., Bartlesville, Okla., assignor to Phillips Petroleum Company. Method and apparatus for evenly distributing solid contact material. 2,655,273, Oct. 13.

Snyder, Robert A.: *See*—
Slack, Alfred W., and Snyder.

Sobotka, Harry, assignor to Mount Sinai Hospital Research Foundation, Inc., New York, N. Y. Water-soluble mono-betaine hydrazones of the aminochromes and preparing same. 2,655,510, Oct. 13.

Societe Anonyme dite: Compagnie des Freins & Signaux Westinghouse, assignee: *See*—
Welker, Heinrich.

Societe Anonyme John Cockerill, assignee: *See*—
Maldague, Pierre E. J. M.

Société dite: Saint Frères, Societe Anonyme, assignee: *See*—
Depoilly, Paul.

Soehl, John, and W. C. Huffman, Winthrop, Minn. Ensilage cutter. 2,655,361, Oct. 13.

Solon, Philip O., Oakland, Calif. Ellipsograph. 2,654,952, Oct. 13.

Sommers, Armiger H.: *See*—
Weston, Arthur W., and Sommers.

Sonnabend, Lawrence F.: *See*—
Edmunds, Alvin M., and Soansbend.

Sonnabend, Lawrence F., and A. M. Edmunds, assignors to The Dow Chemical Company, Midland, Mich. Catalytic hardening of phenol-formaldehyde resins and compositions comprising same. 2,655,490, Oct. 13.

Sorensen, Phillips N., assignor to The Ohio Crankshaft Company, Cleveland, Ohio. High-frequency inductor. 2,655,589, Oct. 13.

Soroka, Theodore J., Indianapolis, Ind., assignor to General Motors Corporation, Detroit, Mich. Fender shield. 2,655,389, Oct. 13.

Souter, John C., West Newbury, Mass., assignor to Western Electric Company, Incorporated, New York, N. Y. Welding electrode. 2,655,583, Oct. 13.

Southwick, Philip L., Pittsburgh, Pa., assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Making naphthaleneacetic acid. 2,655,531, Oct. 13.

Sowa, Frank J., Crandon, N. J. Addition compounds of amines and halides of aluminum and boron. 2,655,524, Oct. 13.

Spaenig, Hermann: *See*—
Hopf, Heinrich, and Spaenig.

Spatola, Albert, New York, N. Y., assignor to United Shoe Machinery Corporation, Flemington, N. J. Stitchdown lasting machine. 2,654,902, Oct. 13.

Spencer, Arthur, and J. Hewitt, assignors to Vickers-Armstrongs Limited, London, England. Hydraulic driving means for winding and rolling machines. 2,655,060, Oct. 13.

Spero, George B.: *See*—
Levin, Robert H., McIntosh, and Spero.

Sperry Corporation, The, assignee: *See*—
Scheib, Richard, Jr.

Spielberger, Georg: *See*—
Brüning, Eberhard, Delfs, and Spielberger.

Spitser, Joseph G., Yonkers, I. Reich, Brooklyn, and N. Fine, Mount Vernon, N. Y., said Reich and said Fine assignors to said Spitser. Lather producing composition. 2,655,480, Oct. 13.

Spooner, Richard C., Cleveland, Ohio, assignor to A. R. Lintern Inc. Vehicle heater and system. 2,655,092, Oct. 13.

Spurgeon, Samuel J., Birmingham, Ala. Self-aligning idler for conveyers and the like. 2,655,252, Oct. 13.

Squibb, George R., and D. A. Urquhart, Birmingham, assignors to General Motors Corporation, Detroit, Mich. Process and apparatus for grinding piston rings. 2,654,977, Oct. 13.

Stacy, Samuel D.: *See*—
McClure, Nicholas, and Stacy.

Stanbury, Keith S., Christchurch, New Zealand. Apparatus for use in telephone or like communication systems. 2,655,557, Oct. 13.

Standard Oil Company, The, assignee: *See*—
Bartleson, John D., and Campbell.
Hughes, Everett C., and Milberger.

Standard Oil Development Company, assignee: *See*—
Banes, Fred W., FitzGerald, and Nelson.
Brown, James W., and Jahnig.
Gohr, Edwin J., Martin, Jahnig, Tyson, and Graham.
Greene, Robert L.
Holtzclaw, John B.
Holtzclaw, John B., and Brooks.
Martin, Homer Z.
McNulty, George M., and Cross.
Munday, John C., and Rogers.
Murphree, Eger V.
Schutze, Henry G., and Cler.
Smith, Lester H.
Welch, Lester M., and Serniuk.
Young, David W., and Hardy.

Stanley, John C., Duquesne, Pa., assignor to United States Steel Corporation. Checkerwork for heat regenerators. 2,655,366, Oct. 13.

Stanley, Richard W., Rocky River, assignor to Industrial Rayon Corporation, Cleveland, Ohio. Thread processing reel. 2,654,962, Oct. 13.

Stanolind Oil and Gas Company, assignee: *See*—
Barton, Gerald D.

Starbird, Edward E.: *See*—
Pidacks, Charles, and Starbird.

Stayner, Richard D.: *See*—
Lewis, Allen H., and Stayner.

Steele, William C., Seattle, Wash. Decarbonising a burner pot. 2,655,455, Oct. 13.

Steffen, Joseph A., Chicago, Ill. Injector carburetor. 2,655,357, Oct. 13.

Steiger, Norbert, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Bibenzothiazoles and producing the same. 2,655,505, Oct. 13.

Steingruber, George, deceased, Atlanta, Ga.: M. B. Steingruber, executrix. Wall-mountable electric heater and housing assembly therefor. 2,655,587, Oct. 13.

Steingruber, Minnie B., executrix: *See*—
Steingruber, George.

Steins, Carleton K., Overbrook, and W. M. Keller, Merion, assignors to The Pennsylvania Railroad Company, Philadelphia, Pa. Detector valve for hot bearing indicating systems. 2,655,166, Oct. 13.

Stenger, Richard C., assignor to Sutherland Paper Company, Kalamazoo, Mich. Machine for conveying and closing cartons. 2,654,981, Oct. 13.

Sternad, Frank S., Cuyahoga Falls, and J. P. Sapp, Kent, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Tire building apparatus. 2,655,321, Oct. 13.

Stevens, Clifford B., Fox Point, Wis., assignor to Arnot Sleeper Corporation, Baltimore, Md. Sleeping car section. 2,654,995, Oct. 13.

Stevens, Donald R., Wilkinsburg, and R. S. Bowman, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Preparation of tertiary alkyl aryl ethers. 2,655,546, Oct. 13.

Stewart, Ralph T., Winston-Salem, N. C., assignor to The Herald Press, Inc. Web handling machine. 2,655,212, Oct. 13.

Stewart-Warner Corporation, assignee: *See*—
Allen, Arthur C.
Campbell, Thomas A.

Stirling, John W., Jr.: *See*—
Wallace, James M., and Stirling.

Stoger, George F., Kenosha, Wis. Tissue package holder. 2,655,338, Oct. 13.

Stoll, Robert, Greeley, Colo. Emergency cutting means for wearing apparel. 2,654,964, Oct. 13.

Stoner, Harry B., Aurora, E. Parre, and G. Rogers, Batavia, assignors to Stoner Manufacturing Corporation, Aurora, Ill. Coin-controlled mechanism. 2,655,244, Oct. 13.

Stoner Manufacturing Corporation, assignee: *See*—
Stoner, Harry B., Parre, and Rogers.

Strayer, Arthur C., Beaver, Pa. Sliding drawer transfer file. 2,655,423, Oct. 13.

Streeen-Reuter, Fred'k A., Inc., assignee: *See*—
Keyl, Alexander C., and Geils.

Strickler, Allen, Los Angeles, Calif., and J. H. Teeple, Wausau, Wis., assignors to Celanese Corporation of America, New York, N. Y. Optical thickness gauge. 2,655,073, Oct. 13.

Stromberg-Carlson Company, assignee: *See*—
Clark, Donald L.
Kessler, Frank.
Marshall, Joseph P.
Slaymaker, Frank H., and Meeker.

Sudlow, Edmund W., assignee: *See*—
Fuller, Leonard, and Esper.

Sunroe Refrigeration Company, assignee: *See*—
Wehrwein, John G.

Superior Coach Corporation, assignee: *See*—
Schofield, Earl L.

Sutherland Paper Company, assignee: *See*—
Stenger, Richard C.

Swadesh, Samuel: *See*—
Dunlop, Andrew P., and Swadesh.

Swancott, Walter C.: *See*—
Hayes, Loren A., and Swancott.

Sway, Henry C., Louisville, Ky., assignor to General Electric Company. Washing machine water inlet system. 2,655,024, Oct. 13.

Swinehart, Merle B.: *See*—
Richardson, Linwood T., and Swinehart.

Syler, Harrison R., Los Angeles, Calif. Combination lock. 2,655,026, Oct. 13.

Szabo, Alexander, Perth Amboy, N. J. Relief container for automobiles. 2,654,892, Oct. 13.

Szper, Jonas A.: *See*—
Fuller, Leonard, and Szper.

Szwarguiski, Alex N., St. Louis, and P. R. Larson, Pine Lawn, assignors to Carter Carburetor Corporation, St. Louis, Mo. Fluid pressure switch. 2,655,573, Oct. 13.

Tack, Carl E., Chicago, and W. J. Casey, III, Highland Park, assignors to American Steel Foundries, Chicago, Ill. Duplex brake. 2,655,226, Oct. 13.

Tansman, Alex, New York, N. Y. Covered separable button. 2,654,927, Oct. 13.

Taylor, Etta M., Seattle, Wash. Safety stand for steam irons. 2,655,333, Oct. 13.

Teague, Christine G., trustee, assignee: *See*—
House, Samuel G., and Hobbs.

Tectum Corporation, assignee: *See*—
Collins, Howard W.

Teeple, John H.: *See*—
Strickler, Allen, and Teeple.

Telephonics Corporation, assignee: *See*—
Montalto, George J.

Terhune, Howard, Alliance, Ohio, assignor to Hydropress Inc., New York, N. Y. Liquid pressure transmission system. 2,655,002, Oct. 13.

Testi, Nicholas, Boston, Mass., assignor to The Gillette Company. Blade dispensing magazine. 2,655,257, Oct. 13.

Tetrault, Andrew T., Indian Orchard, Mass. Safety switch for welding holders. 2,655,580, Oct. 13.

Texas Company, The, assignee: *See*—
Deutser, Alton J., and Crookshank.
Moore, Frederic H.

Textile Machine Works, assignee: *See*—
Haehnel, Herbert E.

Thompson, Caney A., Georgetown, S. C. Pulpwood boxcar unloader. 2,655,275, Oct. 13.

Thompson, Ellis W., assignee: *See*—
Daigle, Bert J.

Thompson, Richard B., assignee: *See*—
Thompson, Thomas F.

Thompson, Thomas F., Eugene, assignor of one-third to D. Belford and one-third to O. D. Olson, Portland, and one-sixth to R. B. Thompson, Eugene, Oreg. Radio-phonograph adapter. 2,655,565, Oct. 13.

Thomason, Wilford C., assignee: *See*—
Johnson, JB.

Thorne, Herbert C., Vinton, La. Waste-packed oil filter. 2,655,264, Oct. 13.

Throckmorton, John W., and J. S. Wallis, assignors to Petro-Chem Process Company Incorporated, New York, N. Y. Upright boiler. 2,655,137, Oct. 13.

Tilton, William J.: *See*—
Peters, Harry, and Tilton.

Timber Engineering Company, assignee: *See*—
Farber, Eduard, and Sciascia.

Toastswell Company, Inc., assignee: *See*—
McCullough, Paul J.

Todd, Charles W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. 3-(halophenyl)-1,1-dialkyl ureas and weed control compositions and methods. 2,655,444, Oct. 13.

Todd, Charles W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. 3-(halophenyl)-1-methyl 1-(methyl or ethyl) ureas and herbicidal compositions and methods employing same. 2,655,445, Oct. 13.

Todd, Charles W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical compositions and methods. 2,655,446, Oct. 13.

Todd, Charles W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Composition and method. 2,655,447, Oct. 13.

Towler, Frank H.: *See*—
Towler, John M. and F. H.

Towler, John M., Cumberland, and F. H. Towler, Otley, assignors to Electraulic Presses Limited, Rodley, England. Automatic unloading valve for hydraulic pumps. 2,655,169, Oct. 13.

Towler, John M., Harrogate, and F. H. Towler, Otley, assignors to Electraulic Presses Limited, Rodley, England. Pilot controlled pressure relief valve. 2,655,174, Oct. 13.

Towmotor Corporation, assignee: *See*—
Daniels, Lee C.

Townsley, Malcolm G., Park Ridge, assignor to Bell & Howell Company, Chicago, Ill. Automatic sheet feeding mechanism. 2,655,374, Oct. 13.

Trask, Harold V., and K. M. Haley, Ashland, Ky., assignors to Oglebay, Norton and Company, Cleveland, Ohio. Apparatus for discharging solid material. 2,655,365, Oct. 13.

Travilla, James C., University City, Mo., assignor to General Steel Castings Corporation, Granite City, Ill. Railway vehicle body and truck central bearing. 2,655,117, Oct. 13.

Trimble, Cebern B., Dayton, Ohio. Receiving apparatus for controlling garage doors and lights. 2,655,606, Oct. 13.

Trope, Davida R., and F. C. Mock, Beverly Hills, and D. M. Levinson, Los Angeles, Calif. Garter belt. 2,654,890, Oct. 13.

Trump, Frederick O., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Storage tank and conveying means for liquid material. 2,655,292, Oct. 13.

Tubcor International, assignee: *See*—
Caminati, Carlo.

Tucker, Herbert E., Chicago, Ill., assignor to Cardwell Westinghouse Company. Draft gear. 2,655,270, Oct. 13.

Turner, Milton L., Towson, Md., and R. F. McGrew, Waukegan, assignors to Abbott Laboratories, North Chicago, Ill. Blood sampling apparatus. 2,655,152, Oct. 13.

Twin Disc Clutch Company, assignee: *See*—
Dunkelow, Henry J.

Tyskewicz, John P., assignor to The Maxim Silencer Company, Hartford, Conn. Silencer for outside installation. 2,655,220, Oct. 13.

Tyson, Charles W.: *See*—
Gohr, Edwin J., Martin, Jahnig, Tyson, and Graham.

Underwood Corporation, assignee: *See*—
Anderson, Walter A.
Pitman, Henry L.
Sagner, Walter T.

Union Carbide and Carbon Corporation, assignee: *See*—
Gaylord, William M., Jr.
Jacobson, Wilgot J.
Schreiner, Norman G., and Clapp.

Union Oil Company of California, assignee: *See*—
Fischer, Paul W., and Rogers.

United Shoe Machinery Corporation, assignee: *See*—
Lee, Ferman N.
Spatola, Albert.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Godbold, Nat H.

United States Rubber Company, assignee: *See*—
Ladd, Elbert C. and Sargent.
Slovin, David G.

United States Steel Corporation, assignee: *See*—
Bishop, Charles A., and Reed.
Coleman, William E.
Feick, Daniel E.
Fons, Silas C., and Kramer.
Hayes, Loren A., and Swancott.
Johnston, Earl W.
Schulze, Arthur R.
Stanley, John C.
Weber, Gilbert W.

Universal Oil Products Company, assignee: *See*—
Barnes, Marion W.
Hoffman, Alfred E.

Universal Railway Devices Co., assignee: *See*—
Wilson, Jack.

Upjohn Company, The, assignee: *See*—
Hogg, John A., Korman, Reid, and Nathan.
Levin, Robert H., McIntosh, and Spero.
Marlatt, Paul E., Hanze, McIntosh, and Levin.
Slomp, George, Jr.
Woodruff, Eugene H.
Wright, John B., and Lincoln.

Urquhart, Donald A.: *See*—
Squibb, George R., and Urquhart.

Valdes, Leopoldo B., New Providence, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Semiconductor circuit controlling device. 2,655,606, Oct. 13.

Van Cleef, Paul, Los Angeles, Calif. Tape cutting device. 2,655,214, Oct. 13.

Vanderlip, Herbert D.: *See*—
Cole, Earl S., and Vanderlip.

Van Dijck, Charles M. G., Antwerp, Belgium. Foot bath. 2,654,894, Oct. 13.

Van Dijck, Charles M. G., Antwerp, Belgium. Educational device. 2,654,963, Oct. 13.

Van Haaften, Egbert, Lancaster Township, Lancaster County, assignor to Hamilton Watch Company, Lancaster, Pa. Mainspring dynamometer. 2,655,039, Oct. 13.

Van Patten, Royal A.: *See*—
Ensign, Elbert E., and Van Patten.

Vaughan, Henry E.: *See*—
Malthaner, William A., and Vaughan.

Verdi, Columbus, Waukegan, assignor to Fansteel Metallurgical Corporation, North Chicago, Ill. Heat-treating tungsten-nickel alloys. 2,655,457, Oct. 13.

Verhoeff, Adrianus, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electron microscope. 2,655,601, Oct. 13.

Vestre, Rasmus, Oslo, assignor to Hydraulik A/S, Brattvaag, near Aalesund, Norway. Pump and motor hydraulic system and control valve means therefor. 2,655,000, Oct. 13.

Vickers-Armstrongs Limited, assignee: *See*—
Naylor, Joshua C., and Fieldhouse.
Spencer, Arthur, and Hewitt.

Vierling, Karl: *See*—
Hopf, Heinrich, and Vierling.

Villars, Julio, Versoix, Switzerland. Lifting device for vehicles. 2,655,223, Oct. 13.

Vilter Manufacturing Co., The, assignee: *See*—
Sloan, Harry, and Kocher.

Voity, Maurice, Manhasset, assignor to Serval Slide Fasteners, Inc., Flushing, N. Y. Slide fastener. 2,654,931, Oct. 13.

Von Hoorn, Fred G., Trumbull, Conn., assignor to General Electric Company. Renewable fuse end washer. 2,655,577, Oct. 13.

Wadhams, James B., assignor to The Ohio Crankshaft Company, Cleveland, Ohio. High-frequency inductor. 2,655,588, Oct. 13.

Walker, Chapman J., Schenectady, N. Y., assignor to General Electric Company. Flexible coupling with thrust link. 2,655,014, Oct. 13.

Walker, Daniel N., Ashby Parva, near Rugby, assignor to Power Jets (Research & Development) Limited, London, England. Pressure fluid supply system. 2,655,109, Oct. 13.

Walker, Neville E., Portland, Oreg. Automatic camera light aperture control. 2,655,086, Oct. 13.

Wallace, James M., East McKeesport, and J. W. Stirling, Jr., Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Automatic reclosing circuit breaker. 2,655,575, Oct. 13.

Wallis, John S.: *See*—
Throckmorton, John W., and Wallis.

Walstrom, John E., Danville, assignor to California Research Corporation, San Francisco, Calif. Method and apparatus for detecting fluid movement in well bores. 2,655,631, Oct. 13.

War, United States of America as represented by the Secretary of, assignee: *See*—
O'Brien, Laurence A.

Ward, Warren F., Dallas, Tex. Stager and guide. 2,655,113, Oct. 13.

Wardleworth, James: *See*—
Lodge, Frank, and Wardleworth.

Warwick, Kenneth B., assignor to Geo. W. King Limited, Hitchin, England. Means for lubricating chains. 2,655,222, Oct. 13.

Wassom, Lennis M.: *See*—
Wassom, Roy A. and L. M.

Wassom, Roy A. and L. M., Nardin, Okla. Infant's band. 2,655,151, Oct. 13.

Waterbury Farrel Foundry & Machine Company, Inc., assignee: *See*—
Candee, Zenas P.

Watkins Patents, Inc., assignee: *See*—
Frear, Jenness B.

Webber, Joseph T., Galesburg, Mich. Specific-gravity tester. 2,655,034, Oct. 13.

Weber, Gilbert W., Cleveland, Ohio, assignor to United States Steel Corporation. Wire bundle splitter. 2,654,958, Oct. 13.

Webster Electric Company, assignee: *See*—
Osborne, Herbert C.

Wegner, Robert A., San Diego, Calif. Combination upholstered chair and ottoman. 2,655,203, Oct. 13.

Wehrwein, John G., Havertown, Pa., assignor to Sunroc Refrigeration Company, Dover, Del. Float switch for water coolers. 2,655,574, Oct. 13.

Weick, Fred E., Calvert Hills, assignor to Engineering & Research Corporation, Riverdale, Md. Gust-alleviating flap system for aircraft. 2,655,326, Oct. 13.

Weigler, John, Mansfield, Ohio. Cigarette case. 2,655,258, Oct. 13.

Weinkauf, Oliver J., assignor to Monsanto Chemical Company, St. Louis, Mo. Making 5-formamido-6-amino uracils. 2,655,501, Oct. 13.

Weintraub, Louis M., Chicago, Ill. Cigarette holder. 2,655,157, Oct. 13.

Welch, Lester M., Madison, and G. E. Serniuk, Roselle, N. J., assignors to Standard Oil Development Company. Preparation of lubricating oil additives. 2,655,549, Oct. 13.

Welker, Heinrich, Vaucresson, assignor to Societe Anonyme dite: Compagnie des Freins & Signaux Westinghouse, Paris, France. Multielectrode semiconductor crystal element. 2,655,624, Oct. 13.

Wells, Willis L., Clayton, Mo. Towel dispensing and laundering apparatus. 2,655,022, Oct. 13.

Welts, Henry F., Shawano, Wis. Sash rack. 2,655,286, Oct. 13.

Wendt, Robert H., assignee: *See*—
Pfeifer, Raymond B., and Heyden.

Wendt, Robert H., Evanston, Ill. Device for protecting and reinforcing the projecting ends of paper wrapped crayons. 2,655,131, Oct. 13.

Werts, Louis S., Cleveland Heights, Ohio. Composition for and method of solidifying porous masses and structures. 2,655,004, Oct. 13.

West Michigan Steel Foundry Co., assignee: *See*—
Dalton, Thomas B.

Western Electric Company, Incorporated, assignee: *See*—
Bohaboy, Edward J., and Pojman.
Halvorsen, Russell V., Krause, and Polivka.
Kuettler, Arthur, Jr., and Radakovich.
Longfellow, Harold B.
Souter, John C.

Westinghouse Electric Corporation, assignee: *See*—
Lee, Paul R.
Manecke, Siegfried E.
Wallace, James M., and Stirling.

Westlake, Harry E., Jr.: *See*—
Scalera, Mario, and Westlake.

Weston, Arthur W., and A. H. Sommers, Waukegan, assignors to Abbott Laboratories, North Chicago, Ill. N-benzhydryl - N'-alkyl - substituted - homopiperazines. 2,655,495, Oct. 13.

Westrate, John M., Pleasant Ridge, Mich. Bottle-breaker. 2,655,320, Oct. 13.

Whaley, Arthur G., Oak Harbor, Ohio. Extensible rack. 2,655,268, Oct. 13.

White, Alan G.: *See*—
Coppock, Philip D., Mulligan, McCombie, and White.

White, Ambrose, Kentwood, La. Rotary pump or motor. 2,655,112, Oct. 13.

White, Harry B., Canton, assignor to The Hoover Company, North Canton, Ohio. Converter for suction cleaners. 2,654,908, Oct. 13.

White, Paul W., New Haven, Conn., assignor to Parva Products Company, Chicago, Ill. Buckle. 2,654,928, Oct. 13.

Whitehead, Dean, Oak Park, and J. F. Ametsberger, Northbrook, assignors to Ametsberger Brothers, Inc., Northbrook, Ill. Dough sheeting apparatus for bakery machines. 2,655,118, Oct. 13.

Whiteley, Joseph O., Jr., Menlo Park, Calif., and C. S. Fritz, York, Pa., assignors to The Dentists' Supply Company of New York, N. Y. Artificial tooth and forming the same. 2,654,940, Oct. 13.

Whiting Corporation, assignee: *See*—
Bielfeldt, Paul W.

Whitmer Motor Company, assignee: *See*—
Sherman, Floyd A.

Wieseman, Theodore R., assignor to The Louis Allis Company, Milwaukee, Wis. Rotor for dynamoelectric machines. 2,655,613, Oct. 13.

Wiggan, Beresford O., Vallejo, Calif. Bundle transporting device. 2,655,323, Oct. 13.

Williams, Charlie D., Pasadena, Calif. Nozzle. 2,655,408, Oct. 13.

Williams, Everard M., State College, Pa. Object location relay system. 2,655,649, Oct. 13.

Williams, Gilbert M., administrator: *See*—
Hoen, Kenneth H., and Archer.

Williams, Harry L., assignor to Polymer Corporation Limited, Sarnia, Ontario, Canada. Arsenite catalyst activator. 2,655,495, Oct. 13.

Williams, Mildred D.: *See*—
Williams, Walter P. and M. D.

Williams, Walter P. and M. D., Minneapolis, Minn. Baby exerciser. 2,655,198, Oct. 13.

Williamson, Warren, Santa Rosa, Calif. Smoking pipe. 2,655,156, Oct. 13.

Wilms, Frits N., Tonasket, Wash. Pipe handle adapter. 2,655,300, Oct. 13.

Wilson & Co., Inc., assignee: *See*—
Edgar, Albert C.

Wilson, Jack, Chicago, Ill., assignor to Universal Railway Devices Co. Making gears. 2,654,944, Oct. 13.

Winkler, Albert H., Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Carburetor. 2,655,359, Oct. 13.

Winterbottom, William: *See*—
Dreyfuss, Henry, Winterbottom, and Maier.

Wintle, Thomas D. G.: *See*—
Besag, Ernest, and Wintle.

Winser, Godfrey E., Evanston, Ill. Garment hanger. 2,655,296, Oct. 13.

Wolf, Andrew, assignor to M. I. Wolf, Cleveland, Ohio. Nursing appliance. 2,655,279, Oct. 13.

Wolf, Mary I., assignee: *See*—
Wolf, Andrew.

Wolfe, Charles M., Glendora, Q. M. Shultise, Pasadena, and C. W. Grow, Sierra Madre, Calif., assignors, by mesne assignments, to Aerojet-General Corporation, Cincinnati, Ohio. Pressure measuring device. 2,655,043, Oct. 13.

Wood, David H., B. Green, and H. J. Roe, Knowle, England. Closure device for feed chambers for finely divided materials. 2,654,924, Oct. 13.

Wood, Harvey W., Ossining, assignor to Cambridge Instrument Company, Inc., New York, N. Y. Electrocardiograph. 2,655,425, Oct. 13.

Woodruff, Eugene H., assignor to The Upjohn Company, Kalamazoo, Mich. 1-pyrrolidyl esters. 2,654,511, Oct. 13.

Woodward, Oakley M., Jr., Princeton, N. J., assignor to Radio Corporation of America. Transmission line termination. 2,655,635, Oct. 13.

Woodward, Stanley, assignor to Baker Perkins Limited, Peterborough, England. Feeding of sheets to multiroll laundry ironing machines. 2,654,969, Oct. 13.

Woolf, James W., Franklin, assignor to Joy Manufacturing Company, Pittsburgh, Pa. Reel controlling apparatus for cable reels of mine cars. 2,655,567, Oct. 13.

Woolling, John L., Indianapolis, Ind. Conveyer chain. 2,655,250, Oct. 13.

Worthington Corporation, assignee: *See*—
Slack, Alfred W., and Snyder.

Wright, John B., and E. H. Lincoln, assignors to The Upjohn Company, Kalamazoo, Mich. Aminobetenes. 2,655,542, Oct. 13.

Wright, William E., West Palm Beach, Fla., assignor to Sea Island Mills, Inc., New York, N. Y. Decorticator. 2,654,915, Oct. 13.

Wright, William E., West Palm Beach, and O. H. Bond, Moore Haven, Fla., assignors to Sea Island Mills, Inc., New York, N. Y. Combined harvester and decorticator. 2,654,916, Oct. 13.

Yacsola, Anna, Pittsburgh, Pa. Hospital mattress construction. 2,654,899, Oct. 13.

Young, David W., Roselle, and P. E. Hardy, Elizabeth, N. J., assignors to Standard Oil Development Company. Polyethylene compositions containing styreneisobutylene copolymers. 2,655,492, Oct. 13.

Young, Forrest J., Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Power plant for drilling rigs. 2,655,003, Oct. 13.

Zademach, Erich R., Hillside, and W. W. Clarke, Summit, assignors to Metalwash Machinery Company, Irvington, N. J. Washing machine with endless work conveyer. 2,655,162, Oct. 13.

Zagray, Harold F., assignor, by mesne assignments, to Precision Building System, Inc., Canton, Ohio. Building brick. 2,655,032, Oct. 13.

Zalkind, Albert M., Arlington, Va. Folding table. 2,655,417, Oct. 13.

Zarth, William A.: *See*—
Doolittle, Howard D., Zarth, and Rheaume.

Zobel, Theodor W.: *See*—
Eckert, Ernst R. G., and Zobel.

Zvanut, Carl M., Alton, assignor to Olin Industries, Inc., East Alton, Ill. Melting furnace with thermocouple reception means. 2,655,550, Oct. 13.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 13TH DAY OF OCTOBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Burner and secondary air feed baffle, Multiple gaseous fuel. C. A. Brown. Re. 23,721, Oct. 13.
Enamel and making it, Translucent metallic. R. E. Pike. Re. 23,722, Oct. 13.
Loudspeaker, Immersible electrodynamic. J. D. Seabert. Re. 23,724, Oct. 13.
Pressure gauge. A. F. Allwein. Re. 23,723, Oct. 13.

LIST OF PLANT INVENTIONS

Rose plant. E. S. Boerner. 1,222, Oct. 13.
Rose plant. H. A. M. Verschuren. 1,223, Oct. 13.
Sansevieria plant. S. F. Hahn. 1,220–1, Oct. 13.

LIST OF DESIGN INVENTIONS

Automobile. I. H. Johnson. 170,576, Oct. 13.
Bank, Passbook. J. W. Hickey. 170,574, Oct. 13.
Bicycle, Child's. D. Sebel. 170,610, Oct. 13.
Bolt. C. Fulop. 170,571, Oct. 13.
Bracelet or the like. A. Katz. 170,581, Oct. 13.
Bracelet or the like. A. Katz. 170,583, Oct. 13.
Bracelet or the like. A. Katz. 170,587, Oct. 13.
Bracelet or the like. A. Philippe. 170,608, Oct. 13.
Brooch or the like. A. Katz. 170,579, Oct. 13.
Brush and shoehorn, Combined. C. W. Pennington. 170,603, Oct. 13.
Camera, Stereoscopic. J. E. Davis. 170,568, Oct. 13.
Chain for a bracelet or the like, Link. A. Katz. 170,577, Oct. 13.
Chain for a bracelet or the like, Link. A. Katz. 170,585, Oct. 13.
Chain for a bracelet or the like, Link. A. Philippe. 170,606, Oct. 13.
Chain for a necklace or the like, Link. A. Katz. 170,578, Oct. 13.
Chain for a necklace or the like, Link. A. Philippe. 170,605, Oct. 13.
Chest, Service man's. J. T. Shepler. 170,612, Oct. 13.
Christmas ornament, Music box. J. Petry. 170,604, Oct. 13.
Coin holder and auto visor clip combination. C. M. Del Mas. 170,569, Oct. 13.
Cooker and deep fat fryer, Combination. I. Jepson. 170,575, Oct. 13.
Curler and comb, Combination hair. A. L. Lewis. 170,595, Oct. 13.
Decanter. R. E. Hennessy. 170,573, Oct. 13.
Display globe, Pharmacy. F. Hart. 170,572, Oct. 13.
Dress ensemble. H. Lipman. 170,596, Oct. 13.
Earring or the like. A. Katz. 170,580, Oct. 13.
Frame of an outdoor baby seat. C. C. Stack. 170,613, Oct. 13.
Jars and rack therefor, Combined. E. Troha. 170,615, Oct. 13.
Lamp stand and table, Combined adjustable. M. E. Yarger. 170,616, Oct. 13.
Link chain for a necklace or the like. A. Katz. 170,586, Oct. 13.
Machine for taking fingerprints. T. H. Krueger. 170,591, Oct. 13.
Medallion or similar article. T. C. O'Hare. 170,602, Oct. 13.
Necklace or the like. A. Katz. 170,582, Oct. 13.
Necklace or the like. A. Katz. 170,584, Oct. 13.
Necklace or the like. A. Katz. 170,588–9, Oct. 13.
Necklace or the like. A. Philippe. 170,607, Oct. 13.
Necklace or the like. A. Philippe. 170,609, Oct. 13.
Scarf. V. Neumann. 170,598–600, Oct. 13.
Scarf. V. Nicouline. 170,601, Oct. 13.
Sock or similar article. L. Lasar. 170,592–3, Oct. 13.
Stocking. J. J. Keichel. 170,590, Oct. 13.
Syringe and douche container. N. Leonard and M. Carol. 170,594, Oct. 13.
Tablecloth. F. P. Castorani. 170,565–7, Oct. 13.
Toy animal figure. E. H. Essex. 170,570, Oct. 13.
Toy talking device. F. J. Bloss. 170,564, Oct. 13.
Vanity bench or similar article. C. A. Thomson. 170,614, Oct. 13.
Wheel cover member or similar article. G. A. Lyon. 170,597, Oct. 13.
Window, handle, and push plate for a door, Combined. J. S. Sharp. 170,611, Oct. 13.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 13TH DAY OF OCTOBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Absorbent holder. E. B. Davis. 2,655,281, Oct. 13.
Absorption refrigeration. W. G. Kogel. 2,655,010, Oct. 13.
Acoustic device, Explosion-proof. A. L. Pittinger. 2,655,566, Oct. 13.
Addition compounds of amines and halides of aluminum and boron. F. J. Sowa. 2,655,524, Oct. 13.
Adducts of 3-substituted-9,11-oxido-5,7-pregnadien-20-ones. R. H. Levin, A. V. McIntosh, Jr., and G. B. Spero. 2,655,499, Oct. 13.
Adhesive for plaster of Paris for bandage use. J. J. Eberl and A. R. Ingram. 2,655,148, Oct. 13.
Air cleaner for automotive vehicles. K. F. Russell. 2,655,221, Oct. 13.
Air compressor system. H. W. Neff. 2,655,306, Oct. 13.
Air vent for water systems. W. T. Ferguson. 2,655,170, Oct. 13.
Alarm scratching device, Animal. F. M. Adams. 2,655,122, Oct. 13.
Alarm system, Supervisory. V. T. Callahan and L. D. Fry. 2,655,646, Oct. 13.
Alkyl titanates, Preparation of. D. F. Herman. 2,655,523, Oct. 13.
Alkylation of phenols with polypropylene. G. M. McNulty and T. Cross, Jr. 2,655,544, Oct. 13.
Alkylphenols, Production of. F. Bryner. 2,655,547, Oct. 13.
Alpha-acetamido-beta-hydroxypropiophenones, Preparation of. O. De Garmo and D. B. Guthrie. 2,655,536, Oct. 13.
α,α-dimethylbenzylhydroperoxide, Manufacture of. E. Brüning, D. Delfs, and G. Spielberger. 2,655,545, Oct. 13.
Alternating current generator. F. A. Sherman. 2,655,611, Oct. 13.
Amalgamator mixer. S. R. Meaker. 2,655,333, Oct. 13.
Amino-compounds of the steroid series, Preparing. J. Schmidt-Thomé. 2,655,519–20, Oct. 13.
Aminoketones. J. B. Wright and E. H. Lincoln. 2,655,542, Oct. 13.
Amplifier, Limiting. G. J. Scoles. 2,655,597, Oct. 13.
Amusement apparatus, Tilting track. J. P. Gowland. 2,656,116, Oct. 13.
Angle socket for electric lamps. R. G. Godfrey and F. J. Krajcik. 2,655,637, Oct. 13.
Antenna, All band television. L. H. Finneburgh, Jr. 2,655,599, Oct. 13.
Antenna array for television signal reception, Stacked. H. R. Hillison. 2,655,600, Oct. 13.
Antibacklash gearing. R. E. Divette, W. H. Gille, and W. L. Huntington. 2,655,050, Oct. 13.
Anticing of compressors of aircraft gas turbine engines. H. C. Luttman. 2,655,308, Oct. 13.
Antisiphonic and sound-reducing valve. J. C. Owens. 2,655,172, Oct. 13.
Apparatus for a percutaneous treatment. G. Heger. 2,655,145, Oct. 13.
Apparatus for applying cementitious finish. R. Ager. 2,654,935, Oct. 13.
Apparatus for bending tubing into serpentine form. A. W. Payne. 2,655,193, Oct. 13.
Apparatus for cleaning hypodermic needles. P. M. and R. R. Casady. 2,655,160, Oct. 13.
Apparatus for detecting cobbles in sheet handling equipment. D. E. Feick. 2,655,240, Oct. 13.
Apparatus for discharging solid material. H. V. Trask and K. M. Haley. 2,655,365, Oct. 13.
Apparatus for dispensing fluid. A. F. Barbaro. 2,655,286, Oct. 13.
Apparatus for drawing a wire tie through and around annular articles and twisting the ends together. S. C. Foss and J. Kramer. 2,655,097, Oct. 13.
Apparatus for magnetic recording. L. H. Connell. 2,655,561, Oct. 13.
Apparatus for manufacturing floor mats. A. McDonald. 2,654,910, Oct. 13.
Apparatus for measuring pipe in or out of holes. B. S. Minor and F. J. Lopker. 2,655,633, Oct. 13.
Apparatus for preventing or reducing the formation of ice on the air ducts of gas turbine engines. F. C. I. Marchant and J. E. Bell. 2,654,992, Oct. 13.
Apparatus for processing round bars and tubes. E. W. Nilsson. 2,655,194, Oct. 13.
Apparatus for the continuous fermentation of pulverized vegetable products. F. Laurenty. 2,655,434, Oct. 13.
Apparatus for treating carbonaceous material. J. W. Clark. 2,655,470, Oct. 13.
Apparatus for use in telephone or like communication systems. K. Stanbury. 2,655,557, Oct. 13.
Apparatus for washing clothes and centrifugally extracting liquid therefrom. T. E. D. Bilde and E. B. J. Hultberg. 2,655,023, Oct. 13.
Applying sealing bands to labyrinth packing disks, Means for. P. G. Lange and R. O. J. Möller. 2,655,584, Oct. 13.
Arbor, Winding. H. R. Longfellow. 2,655,322, Oct. 13.
Arc chute with notched barrier plates. T. G. A. Sjöers. 2,655,578, Oct. 13.
Aromatic amines, Stabilized. A. L. Linch. 2,655,543, Oct. 13.
Arsenite catalyst activator. H. L. Williams. 2,655,495, Oct. 13.
Art of and apparatus for molding brushes. N. T. Baldanza. 2,655,409, Oct. 13.
Article of furniture. J. V. Hadley. 2,655,420, Oct. 13.
Article of furniture, Reclining. A. Lorenz. 2,655,200–1, Oct. 13.
Artificial tooth and forming the same. J. O. Whiteley, Jr., and C. S. Fritz. 2,654,949, Oct. 13.
Aryliminoacedianthrone isothiouronium salts. F. Lodge and J. Wardleworth. 2,655,515, Oct. 13.
Atomizer or spraying device, Self-filling, hand-operated. N. C. Ingell. 2,655,407, Oct. 13.
Automatic cigarette dispenser. C. H. Oerding. 2,655,418, Oct. 13.
Automatic gain control circuit. V. L. Heeren. 2,655,596, Oct. 13.
Automatic infinitely variable power transmission. D. C. Clintsman. 2,655,056, Oct. 13.
Baby tender. L. Gottfried. 2,655,202, Oct. 13.
Bag pallet loader. E. S. Cole and H. D. Vanderlip. 2,655,271, Oct. 13.
Ball bearing. O. R. Briney, Jr. 2,655,415, Oct. 13.
Band clamp lock. J. A. and A. D. Carpenter. 2,655,332, Oct. 13.
Band, Infant's. R. A. and L. M. Wasson. 2,655,151, Oct. 13.
Bar: *See*—
Skipping bar.
Barrel top grab mechanism. L. C. Daniels. 2,655,278, Oct. 13.
Batch meter for concrete mixing apparatus. A. W. Slack and R. A. Snyder. 2,655,355, Oct. 13.
Batter applying apparatus. J. O. Hice and J. J. Meadows. 2,655,127, Oct. 13.
Battery grid plate casting and trimming machine, Storage. G. A. Donath. 2,654,939, Oct. 13.
Battery terminal connector. H. Lundquist. 2,655,640, Oct. 13.
Bearing: *See*—
Ball bearing.
Equitorque bearing.
Shield antifriction bearing.
Belt, Garter. D. R. Trope, F. C. Mock, and D. M. Levinson. 2,654,890, Oct. 13.
Bending and shearing machine. R. La Lone. 2,655,192, Oct. 13.
Bibenzothiazoles and producing the same. N. Steiger. 2,655,505, Oct. 13.
Bin, Storage. J. Greaves. 2,654,917, Oct. 13.
Binding means for containers. G. De Lafosse. 2,654,926, Oct. 13.
Bis-hydrazones. H. Jensch. 2,655,538–40, Oct. 13.
Bleaching process for eggs. H. J. Almquist. 2,655,449, Oct. 13.
Blended tile, Making. C. H. Burchenal. 2,654,912, Oct. 13.
Blood sampling apparatus. M. L. Turner and R. F. McGrew. 2,655,152, Oct. 13.
Boat bailer, Automatic. J. J. Cuneo. 2,655,121, Oct. 13.
Boiler: *See*—
Upright boiler.
Bookkeeping mechanism. W. A. Brucker. 2,655,390, Oct. 13.
Bottle-breaker. J. M. Westrate. 2,655,320, Oct. 13.
Bottle handling device. E. Johnson. 2,655,402, Oct. 13.
Boxcar unloader, Pulpwood. C. A. Thompson. 2,655,275, Oct. 13.
Box construction. V. G. Moldt. 2,655,283, Oct. 13.
Bracket: *See*—
Combination curtain, shade, and drapery bracket.
Lantern bracket.
Bracket for drawers or shelves and locking means therefor, Pivotally movable sliding. S. I. Gusack. 2,655,422, Oct. 13.

Brake: *See*—
Disk brake. Self-energizing brake.
Duplex brake.
Brake beam, Fabricated. E. J. Simanek. 2,655,235, Oct. 13.
Brake beam with fixed head and guide. W. H. Baselt. 2,655,234, Oct. 13.
Brake construction. A. A. Benson. 2,655,237, Oct. 13.
Brake mechanism. F. H. S. Roesire. 2,655,231, Oct. 13.
Brake mechanism, Disk. E. K. Buyse. 2,655,230, Oct. 13.
Brake mechanism, Disk. C. L. Eksergian. 2,655,229, Oct. 13.
Breathing apparatus. C. D. Cupp. 2,655,150, Oct. 13.
Brick, Building. H. F. Zagray. 2,655,032, Oct. 13.
Broiling apparatus, Meat. B. Ebin. 2,655,096, Oct. 13.
Brush. G. K. Davis, Jr. 2,654,905, Oct. 13.
Brush spring retractor. H. A. Krause. 2,655,061, Oct. 13.
Buckle. P. W. White. 2,654,928, Oct. 13.
Bunching and counting mechanism. H. Peters and W. J. Tilton. 2,655,083, Oct. 13.
Bundle transporting device. B. O. Wiggan. 2,655,323, Oct. 13.
Bung or stopper. J. R. Cuttell and T. R. Ashton. 2,655,280, Oct. 13.
Burner: *See*—
Oil burner.
Button, Covered separable. A. Tansman. 2,654,927, Oct. 13.
Cable pulling machine. W. A. Chauvin. 2,655,653, Oct. 13.
Cage, Chinchilla. L. Miller. 2,655,129, Oct. 13.
Calcium choline citrate salt of P-amino salicylic acid. H. Hopff and H. Speenig. 2,655,529, Oct. 13.
Calcium sulfate from refinery waste acid, Making. K. F. Schiermeier. 2,655,430, Oct. 13.
Camera light aperture control, Automatic. N. E. Walker. 2,655,086, Oct. 13.
Camera, Swing lens. F. L. O. Roehrig. 2,655,084, Oct. 13.
Cap: *See*—
Radiator pressure cap. Toy cap.
Cap protector. M. C. Guest. 2,655,256, Oct. 13.
Car section, Sleeping. C. B. Stevens. 2,654,895, Oct. 13.
Carbethoxycyclohexanones. J. A. Hogg, J. Korman, W. B. Reid, Jr., and A. H. Nathan. 2,655,527, Oct. 13.
Carbon pile regulator. W. G. Neild. 2,655,581, Oct. 13.
Carburetor. A. H. Winkler. 2,655,359, Oct. 13.
Carburetor for internal-combustion engines. H. F. Borcherts. 2,655,356, Oct. 13.
Carburetor, Injector. J. A. Steffen. 2,655,357, Oct. 13.
Card displaying and vending machine, Coin-controlled. P. and B. Chalfin. 2,655,242, Oct. 13.
Carpet anchoring strip. J. M. and G. M. Paterson. 2,654,909, Oct. 13.
Carton, Collapsible. W. H. Inman and R. M. Holmes. 2,655,304, Oct. 13.
Carton, Egg. P. K. Schilling. 2,655,305, Oct. 13.
Carton, Molded pulp. J. W. Cox. 2,655,303, Oct. 13.
Carton setup machine. M. Burger. 2,655,081, Oct. 13.
Case: *See*—
Cigarette case.
Catalytic hardening of phenol-formaldehyde resins and compositions comprising same. L. F. Sonnabend and A. M. Edmunds. 2,655,490, Oct. 13.
Cellar window hook. J. F. Oblazney. 2,655,396, Oct. 13.
Chain: *See*—
Conveyer chain.
Chain guide for disintegrating apparatus. L. G. Rollins. 2,655,362, Oct. 13.
Chair: *See*—
Lounge chair.
Chair and ottoman, Combination upholstered. R. A. Wegner. 2,655,203, Oct. 13.
Checkerwork for heat regenerators. J. C. Stanley. 2,655,366, Oct. 13.
Chemical compositions and methods. C. W. Todd. 2,655,446, Oct. 13.
Chemical reaction tower. L. A. Ledgett. 2,655,435, Oct. 13.
Chick crate water holder. J. W. Simmons. 2,655,130, Oct. 13.
Choline chloride, Preparation of. H. Hopff and K. Vierling. 2,655,541, Oct. 13.
Christmas tree support. N. A. Merritt. 2,655,331, Oct. 13.
Chromium electroplating. A. E. Chester. 2,655,471, Oct. 13.
Chuck, Preloaded air release. E. L. Peterson. 2,655,384, Oct. 13.
Cigarette case. J. Weigler. 2,655,258, Oct. 13.
Cigarette holder. L. M. Weintraub. 2,655,157, Oct. 13.
Circuit: *See*—
Automatic gain control cir- Television circuit.
cuit.
Circuit and recorder, Electric control. G. W. Barnes, Jr. 2,655,426, Oct. 13.
Circuit arrangement including low-frequency relaxation oscillators. A. Davidson and L. J. Allen. 2,655,560, Oct. 13.
Circuit breaker, Automatic reclosing. J. M. Wallace and J. W. Stirling, Jr. 2,655,575, Oct. 13.
Circuit controlling device, Semiconductor. L. B. Valdes. 2,655,608, Oct. 13.
Circuit element, Semiconductor. E. T. Burton. 2,655,625, Oct. 13.
Circuits, including transistors, Bistable. W. Shockley. 2,655,609, Oct. 13.
Clamp: *See*—
Pipe carrying clamp.
Clamping device, Sheet. W. F. Goudie. 2,654,932, Oct. 13.
Cleaner: *See*—
Windshield cleaner.
Clock, Calendar. A. Gasbarro. 2,654,988, Oct. 13.
Clipper, Hedge. B. De Stefano. 2,654,947, Oct. 13.
Closing cap for collapsible tubes of cream, Automatically. V. Lamagna. 2,655,293, Oct. 13.
Closing strip for aircraft, Inflatable. C. P. Krupp. 2,654,922, Oct. 13.
Closure device for feed chambers for finely divided materials. D. H. Wood and H. J. Roe. 2,654,924, Oct. 13.
Closure seals by molding and curing, Making. C. E. Maier. 2,654,913, Oct. 13.
Clothes-drying apparatus. S. E. Manecke. 2,654,961, Oct. 13.
Clutch: *See*—
Thermally releasable
torque limiting clutch.
Coated food container. A. C. Edgar. 2,655,451, Oct. 13.
Coating apparatus, Electrostatic. E. M. Ranseburg. 2,655,128, Oct. 13.
Coating compositions comprising polyethylene and alkyl polysiloxane and making same. W. D. Lawson. 2,655,489, Oct. 13.
Coin changer. L. F. Hehn. 2,655,243, Oct. 13.
Coin-controlled mechanism. H. B. Stoner, E. Parre, and G. Rogers. 2,655,244, Oct. 13.
Collapsible closure. T. Schaap. 2,655,211, Oct. 13.
Collar stay. C. A. Doric. 2,654,889, Oct. 13.
Collar support. J. B. Ransom. 2,655,295, Oct. 13.
Combination curtain, shade, and drapery bracket. D. M. McGowan. 2,655,336, Oct. 13.
Combination lock. H. B. Syler. 2,655,026, Oct. 13.
Combustion chamber for rocket apparatus, Two-liquid. R. H. Goddard. 2,654,997, Oct. 13.
Combustion chamber, Gas turbine. R. Bonimsegni. 2,654,996, Oct. 13.
Complex zinc- and silver-ammonia salts of alkenyl succinic acids, preparing them, and combating fungi therewith. M. A. Kise. 2,655,461, Oct. 13.
Composition and method. C. W. Todd. 2,655,447, Oct. 13.
Composition for and method of solidifying porous masses and structures. L. S. Wertz. 2,655,004, Oct. 13.
Compounded fluoborate chemical surface treatment of aluminum and aluminum alloys. B. W. Floersch. 2,655,439, Oct. 13.
Compressor, Dual rotor. S. G. House and O. K. Hobbs. 2,655,309, Oct. 13.
Connection for scaffoldings, shelves, racks, and like structures. C. Caminati. 2,655,394, Oct. 13.
Connector: *See*—
Battery terminal connec- Waterproof and pressure-
tor. proof connector.
Watch bracelet end connec- Wood joint connector.
tor.
Connector device for mop or broom handles, Adjustable. H. A. Russell. 2,655,413, Oct. 13.
Connector for bracelets and the like, Separable. H. J. Feibelman. 2,654,929, Oct. 13.
Connector having a mercury amalgam coating on its inner surface, Electrical. A. G. Asaff. 2,655,641, Oct. 13.
Connector strip. A. A. H. Kenlock. 2,655,239, Oct. 13.
Connector with insulation piercing means contacting the conductors of electric cords, Electrical. G. B. Benander and G. R. Lawson. 2,655,639, Oct. 13.
Container: *See*—
Coated food container. Tablet container.
Cosmetic container.
Container and dispenser for liquids, Combined. O. E. Ihle and E. J. Kapteyn. 2,655,011, Oct. 13.
Container and seal. N. R. Dunbar. 2,655,282, Oct. 13.
Container for automobiles, Relief. A. Szabo. 2,654,892, Oct. 13.
Container for collable material. E. H. Lewis. 2,655,262, Oct. 13.
Container for yarn packages. L. G. Harraway. 2,655,019, Oct. 13.
Container handling device with plural container magazines for feeding containers to the handling devices in filling machines. J. Riemer. 2,655,301, Oct. 13.
Container holder. F. Ernest. 2,655,403, Oct. 13.
Continuous heating and cooling of long flexible elements, Means for. H. L. Keller. 2,655,368, Oct. 13.
Continuous rotary pressure or vacuum filter. J. W. Little. 2,655,265, Oct. 13.
Control apparatus. P. R. Lee. 2,655,621, Oct. 13.
Control apparatus for aircraft. W. J. McGoldrick. 2,655,327, Oct. 13.
Control device for fuel systems. A. J. Morris. 2,654,994, Oct. 13.
Control for engine turbosupercharger systems. F. Nettel. 2,654,991, Oct. 13.
Control for material working machines. E. J. Bohaboy and L. A. Pojman. 2,655,240, Oct. 13.
Control panel. H. Dreyfuss, W. Winterbottom, and K. L. Maier. 2,655,176, Oct. 13.
Control system. J. W. Lauricella and F. E. Hagen. 2,655,629, Oct. 13.

Control unit for pinhole detectors. W. E. Coleman. 2,655,620, Oct. 13.
Control valve. H. J. Dunkelow. 2,655,167, Oct. 13.
Controlled damping servo mechanism. R. I. Berge. 2,654,999, Oct. 13.
Converter for suction cleaners. H. B. White. 2,654,906, Oct. 13.
Convertible seat. E. L. Schofield. 2,655,197, Oct. 13.
Conveyer belt and making same. C. C. Curtis. 2,655,195, Oct. 13.
Conveyer chain. J. L. Woolling. 2,655,250, Oct. 13.
Copper oxychloride, Producing. P. K. Anderson. 2,655,432, Oct. 13.
Cosmetic container. S. J. Clark. 2,655,261, Oct. 13.
Coupling: *See*—
Flexible power transmis-
sion coupling.
Coupling with thrust link, Flexible. C. J. Walker. 2,655,014, Oct. 13.
Cover for beehives, Ventilating. W. T. Kelley. 2,654,900, Oct. 13.
Cross drive for heavy vehicles. O. K. Kelley. 2,655,054, Oct. 13.
Crumbing mechanism for excavating machines. A. R. Askue. 2,654,966, Oct. 13.
Crystal element, Multielectrode semiconductor. H. Walker. 2,655,624, Oct. 13.
Cultivating device. C. V. Edwards. 2,654,962, Oct. 13.
Cupped shells, Making. O. H. May. 2,654,942, Oct. 13.
Curling device, Hair. C. L. Parkey. 2,655,159, Oct. 13.
Current-supply means for weft stop motions. P. Depoilly. 2,655,194, Oct. 13.
Cushion having the load supporting portion reinforced by fabric, Spring. B. C. Gould. 2,655,204, Oct. 13.
Cushion utilizing side-loaded helical springs, Resilient. A. E. Schulze. 2,655,370, Oct. 13.
Cutter: *See*—
Ensilage cutter.
Cutting machine for plastic sheeting. F. E. Anderson. 2,655,213, Oct. 13.
Cutting torch tip, including high and low velocity preheat passages. F. J. Eichelman. 2,655,206, Oct. 13.
Cylinder feeding device for progressive washing machines. M. L. Neher. 2,655,021, Oct. 13.
Damper, Mechanical oscillation. R. W. Cole. 2,655,049, Oct. 13.
Damping means for tone generators. F. H. Slaymaker and W. F. Meeker. 2,655,070, Oct. 13.
Decarbonizing a burner pot. W. C. Steele. 2,655,455, Oct. 13.
Decorticator. W. E. Wright. 2,654,915, Oct. 13.
Deflector for ventilating grills. G. K. J. Broberg. 2,655,093, Oct. 13.
Deicer, Carburetor. A. A. Hayden. 2,655,141, Oct. 13.
Demountable seal. L. D. Cobb. 2,655,393, Oct. 13.
Dental cavity lining device. L. B. Rubin. 2,654,948, Oct. 13.
Desulfurization of hydrocarbons. A. E. Hoffman. 2,655,463, Oct. 13.
Detecting fluid movement in well bores, Method and apparatus for. J. E. Walstrom. 2,655,631, Oct. 13.
Device for protecting and reinforcing the projecting ends of paper wrapped crayons. E. H. Wendt. 2,655,131, Oct. 13.
Device for recrimping the head seams of drums. H. F. Niemann. 2,655,120, Oct. 13.
Device for the setting of the multiplier into motor-driven calculating machines. S. Lanza. 2,655,313, Oct. 13.
Dibasic silver salts of alkenyl succinic acids and combating fungus infestations therewith. M. A. Kise. 2,655,460, Oct. 13.
Differential, Torque proportioning. H. M. Patch. 2,655,053, Oct. 13.
Diguanidine amides of alkane phosphonic acids. A. H. Lewis and R. D. Stayner. 2,655,533, Oct. 13.
Dish structure, Sump-drained. R. Hudson. 2,655,016, Oct. 13.
Dishwashing apparatus. H. F. Lyman. 2,655,164, Oct. 13.
Dishwashing machine and activating means therefor. H. F. Lyman. 2,655,163, Oct. 13.
Disk brake. F. E. Bachman. 2,655,236, Oct. 13.
Disk brake. C. L. Eksergian. 2,655,227, Oct. 13.
Dispenser: *See*—
Automatic cigarette dis- Sanitary cream dispenser.
penser. Soap dispenser.
Dispenser for condiments or the like. L. Caretto. 2,655,288, Oct. 13.
Dispensing apparatus having protected quantity control mechanism and counter, Liquid. A. J. Granberg. 2,655,285, Oct. 13.
Dispensing fixture, Double-acting liquid. M. Smolensky. 2,655,179, Oct. 13.
Dispensing magazine, Blade. N. Testi. 2,655,257, Oct. 13.
Display device and mailing piece, Combination. P. S. Miller. 2,654,970, Oct. 13.
Disubstituted aminoethylcyclohexanones. J. A. Hogg, J. Korman, W. B. Reid, Jr., and A. H. Nathan. 2,655,537, Oct. 13.
Door control for the rear lifting mechanism of two post lifts. I. V. K. Hott and K. E. Berk. 2,655,224, Oct. 13.
Door latch. T. L. D. Lynxwiler. 2,655,027, Oct. 13.
Dough sheeting apparatus for bakery machines. D. Whitehead and J. F. Anetsberger. 2,655,118, Oct. 13.
Draft gear. H. E. Tucker. 2,655,270, Oct. 13.
Drainer basket and receptacle support, Combination. P. H. Planeta. 2,655,267, Oct. 13.
Dress shield. W. S. Brightman. 2,654,898, Oct. 13.
Drill pipe wiper. V. H. Anderson. 2,654,906, Oct. 13.
Drilling device. J. M. Pestarini. 2,655,342, Oct. 13.
Drilling mud. P. W. Fischer and R. A. Rogers. 2,655,475, Oct. 13.
Drinking vessel with animated display. D. Rosenthal. 2,654,974, Oct. 13.
Drive means for double-ended socket wrenches. V. P. Carrick and W. B. Cates. 2,655,062, Oct. 13.
Driving arrangement and control for clothes-washing apparatus and the like. R. B. J. Hultberg. 2,655,241, Oct. 13.
Drop out fuse switch. W. G. Milne and R. E. Jones. 2,655,576, Oct. 13.
Drop pit apparatus. L. H. Holdeman and H. K. Hybarger. 2,655,114-5, Oct. 13.
Drum. E. Levay. 2,655,071, Oct. 13.
Dual function indicator. H. Golle. 2,655,125, Oct. 13.
Dump car for inclined tracks. J. J. Brodeske. 2,655,276, Oct. 13.
Duplex brake. C. E. Tack and W. J. Casey. 2,655,226, Oct. 13.
Dyestuffs of the benzanthrone acridine series. M. Scalera and H. E. Westlake, Jr. 2,655,502, Oct. 13.
Dynamometer, Mainspring. E. Van Haaften. 2,655,089, Oct. 13.
Earth working tool. R. G. Le Tourneau. 2,655,089, Oct. 13.
Educational device. C. M. G. Van Dijck. 2,654,963, Oct. 13.
Elapsed time indicator. L. J. Kroko. 2,655,634, Oct. 13.
Electric delay device employing semiconductors. A. H. Reeves. 2,655,607, Oct. 13.
Electric motor type of servo mechanism for filter tuning. J. E. McWade. 2,655,627, Oct. 13.
Electric spark ignition apparatus. J. A. Laird. 2,655,617, Oct. 13.
Electrical apparatus, including plural generators and loads. A. J. Kuhn. 2,655,602, Oct. 13.
Electrical contact. L. T. Richardson and M. B. Swinehart. 2,654,945, Oct. 13.
Electrical control for combustion systems. G. G. Outterson. 2,655,208, Oct. 13.
Electrical resistivity dip meter. E. V. Murphree. 2,655,632, Oct. 13.
Electrocardiograph. H. W. Wood. 2,655,425, Oct. 13.
Electrolytic detinning. F. A. Lowenheim. 2,655,473, Oct. 13.
Electromagnetic fluid pump. N. H. Godbold. 2,655,107, Oct. 13.
Electron tube. H. D. Doolittle, W. A. Zarth, and R. H. Rheaume. 2,655,614, Oct. 13.
Electronic control for contour milling machines. G. F. Kelk. 2,655,590, Oct. 13.
Electronic control for inductive apparatus. R. L. Jaeschke. 2,655,612, Oct. 13.
Ellipsograph. P. O. Solon. 2,654,952, Oct. 13.
Emergency cutting means for wearing apparel. R. Stoll. 2,654,964, Oct. 13.
Emulsifying polymerizable compounds and effecting polymerization with the emulsions. J. J. Adams. 2,655,496, Oct. 13.
Engine starter drive. J. J. Digby. 2,655,048, Oct. 13.
Engine with multiple turbines, Gas turbine. F. M. Owner. 2,654,993, Oct. 13.
Ensilage cutter. J. Socal and W. C. Huffman. 2,655,361, Oct. 13.
Equipment for treating wells. R. L. Crain. 2,655,218, Oct. 13.
Equitorque bearing. J. O. Le Van. 2,654,990, Oct. 13.
Erasing head for magnetic recording. D. L. Clark. 2,655,562, Oct. 13.
Estradienes. F. B. Colton. 2,655,518, Oct. 13.
Evenly distributing solid contact material, Method and apparatus for. R. D. Snow. 2,655,273, Oct. 13.
Exerciser, Baby. W. P., and M. D. Williams. 2,655,198, Oct. 13.
Extensible rack. A. G. Whaley. 2,655,268, Oct. 13.
Extracting and recovering metals by leaching and electrolysis. R. V. Hilliard and C. T. Baroch. 2,655,472, Oct. 13.
Faceplate for door locks. E. L. Schlage. 2,655,030, Oct. 13.
Fan, Centrifugal. P. Schlumbohm. 2,655,310, Oct. 13.
Fastener: *See*—
Slide fastener. Tank closure fastener.
Fastener with spreading means. O. J. Poupitch. 2,655,072, Oct. 13.
Fastening device, License plate. E. R. Hecht. 2,654,933, Oct. 13.
Feeding and clamping means for centerless bar turning machines. W. Siegerist. 2,655,066, Oct. 13.
Feeding mechanism. E. Laxo. 2,655,373, Oct. 13.
Feeding of sheets to multiroll laundry ironing machines. S. Woodward. 2,654,969, Oct. 13.
Feeler gauge. L. A. Grant. 2,654,957, Oct. 13.
Fencing machine. K. H. Hoen and J. M. Archer. 2,655,006, Oct. 13.

Fibrous elements from woody material, Production of. J. d'A. Clark. 2,655,189, Oct. 13.
File, Banker's note and collateral indexing. B. H. Caldwell. 2,655,156, Oct. 13.
File, Sliding drawer transfer. A. C. Strayer. 2,655,423, Oct. 13.
Filing machine, Saw. H. E. Hull. 2,655,057, Oct. 13.
Filter: *See*—
Continuous rotary pressure or vacuum filter. Waste-packed oil filter.
Filter. R. W. Geiger. 2,655,091, Oct. 13.
Fire extinguisher discharge device. H. Ensminger. 2,655,219, Oct. 13.
Fishing line signal light. S. J. Hollingsworth. 2,654,972, Oct. 13.
5-formamido-6-amino uracils, Making. O. J. Weinkauff. 2,655,501, Oct. 13.
Flag and banner standard, Unitary. H. J. Francis. 2,655,126, Oct. 13.
Flash device, Electronic. H. L. Parker. 2,655,618, Oct. 13.
Flexible-conduit cutting tool. F. V. Schleimer. 2,654,941, Oct. 13.
Flexible power transmission coupling. Z. P. Candee. 2,655,013, Oct. 13.
Flexible shaft. H. E. McCrery. 2,655,012, Oct. 13.
Floor furnace valve. E. H. Ryon. 2,655,177, Oct. 13.
Flowmeter. W. J. Jacobsson. 2,655,041, Oct. 13.
Flow regulating device. E. W. Bagnell. 2,655,217, Oct. 13.
Fluent material distributor. C. W. Loy and M. H. Mullis. 2,655,406, Oct. 13.
Fluid circulating arrangement for hydraulic pressure systems. E. H. Schanzlin. 2,655,111, Oct. 13.
Fluid pressure operated rotary work or tool holder. G. Di Palo. 2,655,383, Oct. 13.
Fluid pressure switch. A. N. Sawarguiski and P. R. Larson. 2,655,573, Oct. 13.
Fluid separating and preserving means for apparatus for cleaning vehicle radiators or the like. H. M. Dunn and D. Oles. 2,655,161, Oct. 13.
Fluidized solids reactor. P. W. Garbo. 2,655,437, Oct. 13.
Folding table. A. M. Zalkind. 2,655,417, Oct. 13.
Foot bath. C. M. G. Van Dijck. 2,654,894, Oct. 13.
Footwear last and assembly thereon. L. H. L'Hollier. 2,654,904, Oct. 13.
Forming an open filling-receiving groove in frankfurter rolls and other bakery products, Method of and apparatus for. C. O. M. Mason and H. J. Perry. 2,655,190, Oct. 13.
Forming closure caps by molding and partially fluxing a paste resin composition with subsequent final fluxing thereafter. C. E. Maier. 2,654,914, Oct. 13.
Forming wood wool panels. H. W. Collins. 2,655,458, Oct. 13.
Frame for making scalloped crochet edging. B. L. Scott. 2,655,017, Oct. 13.
Frame for sofa beds, Folding. R. Coopersmith. 2,654,896, Oct. 13.
Freezer and freezing liquids, Shell. J. H. Lazar. 2,655,007, Oct. 13.
Freight car door lock. J. F. Bentley. 2,655,371, Oct. 13.
Frequency modulated torsional vibration analyzer. F. W. Chapman. 2,655,036, Oct. 13.
Fryer, Deep. R. T. Keating. 2,655,144, Oct. 13.
Fuel injection apparatus. R. Lee. 2,655,140, Oct. 13.
Game board and pegs, Travel. H. J. Ferling. 2,655,381, Oct. 13.
Game, Marble. M. Engle. 2,655,380, Oct. 13.
Game, Table. F. C. Miller. 2,655,379, Oct. 13.
Garment hanger. G. K. Winzer. 2,655,296, Oct. 13.
Gas turbine rotor arrangement. B. O. Buckland and C. S. Rice. 2,655,307, Oct. 13.
Gauge: *See*—
Feeler gauge. Pressure gauge.
High vacuum gauge. Baker gauge.
Optical thickness gauge.
Gear: *See*—
Draft gear.
Gear for motor-driven vehicles, Differential. P. Böttcher. 2,655,055, Oct. 13.
Gear shifting mechanism. J. R. Almond. 2,655,042, Oct. 13.
Gears, making. J. Wilson. 2,654,944, Oct. 13.
Generation of picture signals for television transmission. C. A. Johnson. 2,655,554, Oct. 13.
Generator: *See*—
Alternating current generator. Portable acetylene generator.
Gift box and greeting card carrier, Combined. J. Clerc. 2,655,260, Oct. 13.
Glasses, compositions thereof, articles embodying said glasses, and making and using the same. R. B. Barnes and W. A. Fraser. 2,655,452, Oct. 13.
Golf instruction apparatus. A. D. Sheffer. 2,655,378, Oct. 13.
Grinding piston rings, Process and apparatus for. G. R. Squibb and D. A. Urquhart. 2,654,977, Oct. 13.
Guard device for machine tools. A. Bechler. 2,655,067, Oct. 13.
Gun carriage attachment for vehicle dash panels. J. W. Riley. 2,655,298, Oct. 13.
Gust-alleviating flap system for aircraft. F. E. Weick. 2,655,326, Oct. 13.
Gyroscope instrument. P. E. Selfried. 2,655,046, Oct. 13.
Halogeno fatty acid esters, Production of. E. C. Ladd and H. Sargent. 2,655,521, Oct. 13.
Hand loom. K. J. Smith. 2,654,937, Oct. 12.
Handling fluidizable finely divided solid materials, Method and apparatus for. L. H. Smith. 2,655,411, Oct. 13.
Hanger: *See*—
Garment hanger.
Harmonica, Chord-playing. L. A. Ruben. 2,655,068, Oct. 13.
Harvester and decorticator, Combined. W. E. Wright and O. H. Bond. 2,654,916, Oct. 13.
Harvesting equipment, Crop. A. B. and R. A. Lowe. 2,655,274, Oct. 13.
Harvesting reel. R. Fiess. 2,654,984, Oct. 13.
Heat bath, Infrared ray, indirectly heating. M. Aehner. 2,655,155, Oct. 13.
Heat exchange and sound absorbing wall unit. R. L. Siering. 2,655,348, Oct. 13.
Heat exchanger. P. W. Bielfeldt. 2,655,347, Oct. 13.
Heat exchanger, Extended surface. D. Dallin. 2,655,352, Oct. 13.
Heat exchanger with tube matrix. R. W. Corbitt and J. H. Dale. 2,655,346, Oct. 13.
Heat-treating tungsten-nickel alloys. C. Verdi. 2,655,457, Oct. 13.
Heater and housing assembly therefor, Wall-mountable electric. G. Steingruber. 2,655,587, Oct. 13.
Heater and system, Vehicle. R. C. Spooner. 2,655,092, Oct. 13.
Heater casing, Fluid. I. L. Langvand. 2,655,238, Oct. 13.
Heater mounted in the convection section of furnaces, Air. F. Falla. 2,655,138, Oct. 13.
Heater or cooler, Combination space. E. O. Kunkel. 2,655,317, Oct. 13.
Heater with upright tubes, Fuel burning air. G. B. Herbster. 2,655,143, Oct. 13.
Heating and cooling apparatus, Automobile. L. R. Beavin. 2,653,349, Oct. 13.
Heating apparatus, Regenerative. E. T. Linderoth. 2,655,205, Oct. 13.
Heating of fluids. M. W. Barnes. 2,655,136, Oct. 13.
High-frequency inductor. P. N. Sorensen. 2,655,589, Oct. 13.
High-frequency inductor. J. B. Wadhams. 2,655,588, Oct. 13.
High vacuum gauge. J. W. M. Du Mond. 2,655,044, Oct. 13.
Hobbyhorse. F. I. Louckes. 2,655,375, Oct. 13.
Hoist, Manually actuated cable. R. Mallory. 2,655,342, Oct. 13.
Holder: *See*—
Absorbent holder. Fluid pressure operated rotary work or tool holder.
Chick crate water holder. Suction hood holder.
Cigarette holder. Tissue package holder.
Container holder.
Hook: *See*—
Cellar window hook. Self-disengaging life hook.
Hosiery and making the same, Article of. N. J. Allen. 2,655,020, Oct. 13.
Hydraulic driving means for winding and rolling machines. A. Spencer and J. Hewitt. 2,655,060, Oct. 13.
Hydraulic windshield wiper motor. R. E. Figore and E. A. Otto. 2,655,134, Oct. 13.
Ice guard. L. A. O'Brien. 2,655,106, Oct. 13.
Ice shaving machine. H. G. Beyer. 2,655,318, Oct. 13.
Idler for conveyers and the like, Self-aligning. S. J. Spurgeon. 2,655,252, Oct. 13.
Idler, Reversible training. W. F. Bankauf. 2,655,251, Oct. 13.
Impellers and the like, Manufacture of. R. D. Campbell. 2,654,943, Oct. 13.
Indicator: *See*—
Dual function indicator. Position indicator.
Elapsed time indicator.
Indicator for pneumatic tires, Pressure. L. D. Loggins. 2,655,571, Oct. 13.
Induction heating apparatus. R. P. G. Gardner. 2,655,590, Oct. 13.
Inking mechanism for printing presses. W. S. Jobb. 2,655,104, Oct. 13.
Insect catcher for automobiles. G. Cash. 2,655,404, Oct. 13.
Installation for the production of hot gases under pressure. P. E. J. M. Maldague. 2,655,364, Oct. 13.
Intaglio printing press. F. A. Ross. 2,655,102, Oct. 13.
Integrator and indicator, Water speed. J. B. Peterson. 2,655,040, Oct. 13.
Interference—Schlieren apparatus with simplified compensation principle. E. R. G. Eckert and T. W. Zobel. 2,655,074, Oct. 13.
Interpolymer of vinylaromatic compound and conjugated oil fatty acid. E. W. Kanning and E. G. Hart. 2,655,488, Oct. 13.
Ironing device, Shoe bottom. F. N. Lee. 2,654,903, Oct. 13.
Ironing stand. J. H. W. Lewis. 2,654,968, Oct. 13.
Ironwork structure, Ornamental. P. C. Lindman. 2,655,345, Oct. 13.
Item retaining mechanism for accounting machines. W. A. Anderson. 2,655,312, Oct. 13.
Joint for chromium alloy gas turbine structures, Soldered. E. C. Rhodes and D. W. Rhys. 2,654,946, Oct. 13.

Jug, Picnic. J. D. Brown. 2,655,255, Oct. 13.
Key, Adjustable. C. J. Borda. 2,655,029, Oct. 13.
Key ejector, Automatic. G. E. St. John. 2,655,569, Oct. 13.
Keying system. T. H. Chambers. 2,655,595, Oct. 13.
Lady's shoulder protector. K. L. Hookstratten. 2,654,887, Oct. 13.
Lamp clip for dry cells. M. O. Fredrickson. 2,655,593, Oct. 13.
Lantern bracket. G. J. Diesfeld. 2,655,337, Oct. 13.
Lasting machine, Stitchdown. A. Spatola. 2,654,902, Oct. 13.
Latch: *See*—
Door latch.
Latch mechanism. R. Marple. 2,655,025, Oct. 13.
Lather producing composition. J. G. Spitzer, I. Reich, and N. Fine. 2,655,480, Oct. 13.
Lawn trimmer and edger. A. E. Miller. 2,654,985, Oct. 13.
Layout and construction jig for awning ends and the like, Adjustable. W. L. Catching, Jr. 2,655,188, Oct. 13.
Lift for ceiling boards. J. Jones. 2,655,412, Oct. 13.
Lifting device for substructure covers. G. W. J. McMillan. 2,655,399, Oct. 13.
Lifting device for vehicles. J. Villars. 2,655,223, Oct. 13.
Light: *See*—
Fishing line signal light. Vehicle auxiliary light.
Light projector for airport lighting. P. B. Clark. 2,655,591, Oct. 13.
Line transposition bracket with reinforcing gussets. R. Case. 2,655,553, Oct. 13.
Linear motion magnetic motor. R. Scheib, Jr. 2,655,132, Oct. 13.
Liquid indicator device. C. V. Gary and R. S. Dickert. 2,655,124, Oct. 13.
Liquid pressure transmission system. H. Terhune. 2,655,002, Oct. 13.
Liquid treating yarn traveling in a helical path, Method and apparatus for. G. M. Allen and J. W. Podlow. 2,655,429, Oct. 13.
Loading apparatus, Material. C. N. Bebinger. 2,655,246, Oct. 13.
Loading mechanism for guns. H. W. Aldrin and S. G. Gerdin. 2,655,079, Oct. 13.
Lock: *See*—
Band clamp lock. Freight car door lock.
Combination lock. Rear compartment lock.
Lock for refrigerator doors or other closures. A. H. Groeger. 2,655,395, Oct. 13.
Lock means for postage metering devices, Operational. E. Persson. 2,655,315, Oct. 13.
Lock mechanism, Weather sealed. H. N. Jacobi. 2,655,031, Oct. 13.
Log turner, Single cylinder fluid-actuated. D. C. Richardson. 2,655,185, Oct. 13.
Log turner with fulcrum stop, Power-operated. D. C. Richardson. 2,655,186, Oct. 13.
Loom: *See*—
Hand loom.
Lounge chair. F. J. Lubeta. 2,655,199, Oct. 13.
Lubricants, Thickened. E. C. Hughes and E. C. Milberger. 2,655,476, Oct. 13.
Lubricating chains, Means for. K. B. Warwick. 2,655,222, Oct. 13.
Lubricating device. R. Annen. 2,655,416, Oct. 13.
Lubricating oil additives, Preparation of. L. M. Welch and G. E. Serniuk. 2,655,549, Oct. 13.
Luminous sign. G. R. Harrison. 2,654,971, Oct. 13.
Machine for applying screw caps to containers. J. Hohl and R. A. Pim. 2,655,302, Oct. 13.
Machine for conveying and closing cartons. R. C. Stenger. 2,654,981, Oct. 13.
Machine for mechanically electrically measuring and dispensing gummed tape. H. W. Hempel. 2,655,372, Oct. 13.
Machine tool spindle. O. R. Briney, Jr. 2,655,414, Oct. 13.
Magnesium-cuprous chloride reserve battery. G. B. Ellis. 2,655,551, Oct. 13.
Magnetic reproducing service for automobiles. L. H. Connell. 2,655,563, Oct. 13.
Magnetron. B. V. Rollin. 2,655,616, Oct. 13.
Manganese dioxide for primary cells. W. W. Gullett. 2,655,456, Oct. 13.
Manifold sheet having a crush-resistant transfer film. R. W. Sandberg. 2,655,453, Oct. 13.
Manometer, Mercury. J. V. Hart and E. E. Lakjer. 2,655,045, Oct. 13.
Massage apparatus, Vibratory. A. J. Force, Jr. 2,655,146, Oct. 13.
Massaging exhilarating and dandruff removing device, Scalp. W. C. Rohrer. 2,655,147, Oct. 13.
Mattress construction, Hospital. A. Yaczola. 2,654,899, Oct. 13.
Mattress with reinforced opening. D. E. Eckart and J. R. Rosenleaf. 2,654,898, Oct. 13.
Measuring and packaging machine. J. C. Roundtree. 2,655,291, Oct. 13.
Measuring apparatus. E. F. Moser. 2,654,955, Oct. 13.
Measuring instrument. A. F. Francis. 2,654,966, Oct. 13.
Measuring instrument, Force. L. Gess. 2,655,037, Oct. 13.
Meat holding device. A. G. Partin. 2,655,191, Oct. 13.
Mechanical pronating and supinating wrist. G. B. Robinson. 2,654,891, Oct. 13.
Melting furnace with thermocouple reception means. C. M. Zvanut. 2,655,550, Oct. 13.
Mercury switch. H. N. Burroughs. 2,655,579, Oct. 13.
Metal sheet lapping apparatus and method. D. Buccicone. 2,655,248, Oct. 13.
Meter: *See*—
Electrical resistivity dip meter.
Method and apparatus for detecting motion in a confined space. S. M. Bagno. 2,655,645, Oct. 13.
Method and fashioning means for knitting machines. H. E. Haehnel. 2,655,018, Oct. 13.
Method and machine for manufacturing corrugated fibro-cement slabs. A. Magnani. 2,655,196, Oct. 13.
Method of and device for producing specifically orientated polished faces on diamonds. P. Grodzinski and A. L. K. Penkuhn. 2,654,979, Oct. 13.
Method of and machine for forming linings. W. P. Drew. 2,655,080, Oct. 13.
Microscope, Electron. A. Verhoeff. 2,655,601, Oct. 13.
Microscope with means for modifying contrast in optical images. A. H. Bennett. 2,655,077, Oct. 13.
Mineral lubricating oil containing an anticorrosive agent and an antioxidant detergent agent. J. D. Bartleson and M. H. Campbell. 2,655,477, Oct. 13.
Mixer: *See*—
Amalgamator mixer.
Mixer and processor for home use and the like. J. L. Murray. 2,655,354, Oct. 13.
Mixer for gas burners, Sheet metal. F. C. Neuls. 2,655,210, Oct. 13.
Mixing valve. M. L. Edwards. 2,655,316, Oct. 13.
Mold cleaning machine, Automatic. E. Y. Sharlip and A. P. Dunbrack. 2,654,911, Oct. 13.
Mono-alkyl or -aralkyl cyanoacetic acid esters, Preparation of. A. C. Cope. 2,655,526, Oct. 13.
Monoesters of polyhydric alcohol, Producing. J. D. Malkemus. 2,655,522, Oct. 13.
Motor: *See*—
Hydraulic windshield wiper motor. Linear motion magnetic motor.
Motor dropper. G. E. Hamsche. 2,655,105, Oct. 13.
Motor for unit ventilators, Pneumatic. R. P. Reetter. 2,655,180, Oct. 13.
Mounting: *See*—
Tool mounting.
Mounting and casing for scales. A. W. Andersen. 2,655,567, Oct. 13.
Mounting for pictures, mirrors, and the like. C. Anaya Martinez. 2,655,330, Oct. 13.
Mounting magnets or the like within switch castings, Means for. H. Besag and T. D. G. Wintle. 2,655,622, Oct. 13.
Mounting screens for cathode-ray tubes. H. B. Law. 2,654,940, Oct. 13.
Mowing machine cutterhead, Spinnerflex. B. M. Gold. 2,654,996, Oct. 13.
Multiple electrode polyphase arc welding. N. G. Schreiner and E. A. Clapp. 2,655,586, Oct. 13.
Multiple pump. W. L. Sanborn. 2,655,110, Oct. 13.
N-aromatic-N'-aliphatic hydrocarbon ureas, Preparation of. N. E. Searle. 2,655,534, Oct. 13.
N-benzhydryl-N'-alkyl-substituted-homopiperazines. A. W. Weston and A. H. Sommers. 2,655,496, Oct. 13.
N, N-disubstituted aminoalkanol esters of α,α-diacyltoluic acids and their salts. C. P. Krimmel. 2,655,504, Oct. 13.
N-oxoalkyl-para-aminosalicylic acids. H. Hopff and H. Spaenig. 2,655,532, Oct. 13.
Nailing machine attachment. J. B. Frear. 2,654,886, Oct. 13.
Naphthaleneacetic acid, Making. P. L. Southwick. 2,655,531, Oct. 13.
Navigation system, Radio. H. J. Schrader. 2,655,648, Oct. 13.
Needle for leathercraft, Lacing. J. G. Garibaldi. 2,655,297, Oct. 13.
New unsaturated carbinols and preparing same. R. M. Evans and J. H. Chapman. 2,655,548, Oct. 13.
Noncorrosive soluble oil containing active sulfur. A. J. Deutser and F. T. Crookshank. 2,655,478, Oct. 13.
Noninductive electrical resistor. L. Kirby, Jr., and G. A. Erickson. 2,655,582, Oct. 13.
Nozzle. C. D. Williams. 2,655,408, Oct. 13.
Nozzle for concrete mixers or the like, Valved water inlet. L. J. Sarosdy. 2,655,178, Oct. 13.
Numbering machine, Rotary. E. Persson. 2,655,100, Oct. 13.
Nursing appliance. A. Wolf. 2,655,279, Oct. 13.
Object location relay system. E. M. Williams. 2,655,649, Oct. 13.
Obtaining stereophonic sound. A. Holt-Seeland. 2,655,564, Oct. 13.
Oil burner. D. L. Newton. 2,655,209, Oct. 13.
Oil, Diesel fuel. M. R. Barusch and R. Y. Mixer. 2,655,440, Oct. 13.
1-p-chlorophenyl-2-phenyl-4-(N-pyrrolidino)-butenes. J. Mills. 2,655,509, Oct. 13.
1-pyrrolidyl esters. E. H. Woodruff. 2,655,511, Oct. 13.
Optical sighting device. H. Armstrong. 2,655,076, Oct. 13.

Optical thickness gauge. A. Strickler and J. H. Teeple. 2,655,073, Oct. 13.
Ore pulp concentrator. G. G. Chisholm. 2,655,263, Oct. 13.
Orientator, Cherry. E. W. Carroll, J. W. Edgemond, Jr., and H. J. Jespersen. 2,655,247, Oct. 13.
Oxide removing bath. L. C. Clingan. 2,655,481, Oct. 13.
Packing gland, High-temperature and pressure. E. R. Atkins. 2,655,391, Oct. 13.
Parachute and seat harness. J. Martin. 2,655,329, Oct. 13.
Pesticidal compounds. M. Kleiman. 2,655,513–14, Oct. 13.
Photochemical production of olefinc hydrocarbons. H. G. Schutze and H. E. Cler. 2,655,474, Oct. 13.
Photographic shutter with adjustable flash synchronizing mechanism. K. Gebele. 2,655,085, Oct. 13.
Photoprinting process, Diazotype. S. C. Slifkin. 2,655,448, Oct. 13.
Pilot controlled pressure relief valve. J. M. and F. H. Towler. 2,655,174, Oct. 13.
Pin for aircraft landing gear, Metering. M. D. Etherton. 2,655,282, Oct. 13.
Pipe: *See*—
Smoking pipe.
Pipe carrying clamp. C. L. Kelso. 2,655,401, Oct. 13.
Pipe handle adapter. F. N. Willms. 2,655,900, Oct. 13.
Pipe testing head assembly. L. A. Hayes and W. C. Swancott. 2,655,182, Oct. 13.
Piston actuated sleeve type relief valve. J. W. Overbeke. 2,655,173, Oct. 13.
Planographic plate and making same. D. A. Newman. 2,655,101, Oct. 13.
Pliers, Magazine fed sinker applying. H. C. Meattle. 2,655,062, Oct. 13.
Plow for use on tractors, Ditching side. L. C. Hester. 2,655,067, Oct. 13.
Pocket punch, Automatically stepped. J. Kertes. 2,655,215, Oct. 13.
Polyester pour depressants. J. C. Munday and D. T. Rogers. 2,655,479, Oct. 13.
Polyethylene compositions containing styreneisobutylene copolymers. D. W. Young and P. E. Hardy. 2,655,492, Oct. 13.
Polymerizable acrylonitrile compositions and polymerization products thereof. E. L. Kropa and E. W. Malmberg. 2,655,494, Oct. 13.
Polymerizable and polymerized compositions comprising an O-allylisourea. J. A. Price. 2,655,493, Oct. 13.
Portable acetylene generator. I. N. Langerman. 2,655,441, Oct. 13.
Position indicator. G. Peterson, Jr. 2,655,647, Oct. 13.
Positive shutoff ported casing apparatus. R. C. Baker and B. L. Austin. 2,655,216, Oct. 13.
Power feed mechanism. W. A. Escheburg, D. D. Pettigrew, and C. Johnson. 2,655,058, Oct. 13.
Power plant for drilling rigs. F. J. Young. 2,655,003, Oct. 13.
Power plant with centrifugal governor, Wind-driven. U. Hütter. 2,655,604, Oct. 13.
Power supply apparatus for alternately supplying a load. V. T. Callahan and L. D. Fry. 2,655,603, Oct. 13.
Precision casting process. E. E. Ensign and R. A. Van Patten. 2,654,925, Oct. 13.
Press: *See*—
Intaglio printing press.
Pressing apparatus for footwear and the like. B. W. Morrison. 2,654,901, Oct. 13.
Pressure fluid supply system. D. N. Walker. 2,655,109, Oct. 13.
Pressure measuring device. C. M. Wolfe, Q. M. Shultise, and C. W. Grow. 2,655,043, Oct. 13.
Printing apparatus. M. Hirschey. 2,655,103, Oct. 13.
Printing mechanism, Automatic clear sign. H. L. Pitman. 2,655,311, Oct. 13.
Printing, punching, and cutting machine. O. V. and L. V. Dutro, and J. F. Nameth. 2,655,098, Oct. 13.
Printing telegraph apparatus. R. D. Salmon. 2,655,555, Oct. 13.
Process and apparatus for the manufacture of synthesis gas. B. J. Mayland. 2,655,442, Oct. 13.
Producing an aerofoil having a core and a laminated molded skin. J. E. Gordon and C. G. Evans. 2,655,459, Oct. 13.
Producing tubular bodies from wood by coiling up veneer sheets, Means for. H. N. Moe. 2,655,187, Oct. 13.
Profile tracing machine. E. W. Johnston. 2,654,951, Oct. 13.
Protector: *See*—
Cap protector. Lady's shoulder protector.
Pulsator for milking machines. F. J. J. J. Henrard. 2,655,168, Oct. 13.
Pump: *See*—
Electromagnetic fluid pump. Multiple pump.
Pump. H. C. Osborne. 2,655,108, Oct. 13.
Pump and booster gun, Farm bucket. T. A. Campbell. 2,655,287, Oct. 13.
Pump and double-acting motor hydraulic system, including control valve mechanism. J. C. Naylor and J. N. Fieldhouse. 2,654,998, Oct. 13.
Pump and motor hydraulic system and control valve means therefor. R. Vestre. 2,655,000, Oct. 13.
Pump and turbine hydraulic drive. J. Napoli. 2,655,001, Oct. 13.
Pump or motor, Rotary. A. White. 2,655,112, Oct. 13.
Pump priming. C. A. Bierlein. 2,655,139, Oct. 13.
Purifying alkylated aryl sulfonate detergents. J. A. Nevison. 2,655,530, Oct. 13.
Puzzle. C. Belsky. 2,655,382, Oct. 13.
Pyrazole compound. R. G. Jones. 2,655,508, Oct. 13.
Pyrazole compounds. R. G. Jones. 2,655,506–7, Oct. 13.
Quaternary salts of γ-stilbazolines. A. P. Phillips and J. C. Castillo. 2,655,503, Oct. 13.
Rack: *See*—
Extensible rack. Sash rack.
Radar ground approach system. J. N. Marshall. 2,655,650, Oct. 13.
Radiator pressure cap. A. W. Konchan. 2,655,284, Oct. 13.
Radio-phonograph adapter. T. F. Thompson. 2,655,565, Oct. 13.
Railway vehicle body and truck central bearing. J. C. Travilla. 2,655,117, Oct. 13.
Rake attachment for tractors. F. J. Gebauer. 2,655,277, Oct. 13.
Raker gauge. E. Deslongchamps. 2,654,959, Oct. 13.
Ratcheting wrench. O. W. Simon and G. B. Carmack. 2,655,064, Oct. 13.
Ratio transformer, Variable. B. H. Pliske. 2,655,636, Oct. 13.
Rear compartment lock. E. N. Jacobi. 2,655,028, Oct. 13.
Receiving apparatus for controlling garage doors and lights. C. B. Trimble. 2,655,606, Oct. 13.
Recorder. M. Alden. 2,655,427, Oct. 13.
Recovering solvent from process steam. R. L. Greene. 2,655,468, Oct. 13.
Recovery of chlortetracycline. C. Pidacks and E. E. Starbird. 2,655,535, Oct. 13.
Recovery of phenol from extracts. O. Morfit. 2,655,462, Oct. 13.
Recovery of useful product from spent doctor. J. B. Holtsclaw and J. D. Brooks. 2,655,482, Oct. 13.
Recovery of useful product from spent doctor. J. B. Holtsclaw. 2,655,483, Oct. 13.
Reducing valve. C. E. Adams and E. H. Born. 2,654,975, Oct. 13.
Reel: *See*—
Harvesting reel. Thread processing reel.
Reel controlling apparatus for cable reels of mine cars. J. W. Woolf. 2,655,567, Oct. 13.
Refortification of aluminum halide-hydrocarbon complex catalyst. J. L. Groebe. 2,655,484, Oct. 13.
Refrigerant transfer in refrigeration system, Liquid. H. Sloan and E. J. Kocher. 2,655,008, Oct. 13.
Refrigeration system for vehicles. JB Johnson. 2,655,000, Oct. 13.
Refrigerator apparatus. N. Achs. 2,655,419, Oct. 13.
Refrigerator with rotatable shelf. S. Babiskin. 2,655,421, Oct. 13.
Regulator: *See*—
Carbon pile regulator.
Regulator responsive to ram jet engine ram pressure, Maximum-minimum fuel flow. H. H. Ostroff. 2,654,995, Oct. 13.
Remote-control system. F. X. Rees. 2,655,644, Oct. 13.
Removing active sulfur from sulfurised organic compounds. A. Manteuffel, G. R. Cook, and W. D. Gilson. 2,655,469, Oct. 13.
Renewable fuse end washer. F. G. von Hoorn. 2,655,577, Oct. 13.
Residuum coking and cracking. J. W. Brown and C. E. Jahnig. 2,655,464, Oct. 13.
Residuum coking and cracking. H. Z. Martin. 2,655,465, Oct. 13.
Roof framer. J. D. Lawrence. 2,654,954, Oct. 13.
Rotary bit operating mechanism. H. W. McDonald. 2,655,344, Oct. 13.
Rotary surface-finishing tool. W. N. Delenk. 2,654,978, Oct. 13.
Rotor for dynamoelectric machines. T. R. Wiseman. 2,655,613, Oct. 13.
Safety control system for fuel burners. G. G. Outterson. 2,655,207, Oct. 13.
Safety device for doorknob locks. L. W. Birbaum. 2,655,398, Oct. 13.
Safety device for gas ovens. T. E. Phares. 2,655,142, Oct. 13.
Salt crystallization process. W. K. Gilkey and A. C. Shuman. 2,655,438, Oct. 13.
Sanitary cream dispenser. J F. Peal. 2,655,289, Oct. 13.
Sash rack. H. F. Weitz. 2,655,266, Oct. 13.
Sausage package. J. B. Ames. 2,655,450, Oct. 13.
Scan apparatus. J. H. Pratt. 2,655,628, Oct. 13.
Scarifier tooth attachment for bulldozers. E. T. Small. 2,654,967, Oct. 13.
Score breaker. E. Amyx and J. Kramer. 2,655,082, Oct. 13.
Scribing instrument. L. F. Phelps. 2,654,953, Oct. 13.
Seal structure for use between a wall and a plate assembled therewith. W. R. Dalenberg. 2,655,185, Oct. 13.
Sealing strip. J. T. Marvin. 2,654,919, Oct. 13.
Seat: *See*—
Convertible seat.
Selective charge-firing equipment. W. H. Neal. 2,655,619, Oct. 13.
Selenium rectifier. R. J. Copon. 2,655,626, Oct. 13.

Self-disengaging lift hook. A. J. Byron. 2,655,400, Oct. 13.
Self-energising brake. C. L. Ekstergian. 2,655,228, Oct. 13.
Self-hardening furan resin compositions using a mixture of benzene sulfonyl chloride and trichloroacetic acid as catalysts. A. M. Edmunds and L. F. Bonnabend. 2,655,401, Oct. 13.
Separating predominantly aromatic hydrocarbons from predominantly saturated hydrocarbons by extractive distillation. H. B. H. Cooper and E. C. Medcalf. 2,655,467, Oct. 13.
Separator for electric secondary batteries. L. Fuller and J. A. Esper. 2,655,552, Oct. 13.
Servo mechanism. L. P. Paison. 2,655,123, Oct. 13.
Sheet feeding mechanism, Automatic. M. G. Townsley. 2,655,374, Oct. 13.
Sheet stacking and delivering machine. N. McClure and S. D. Stacy. 2,655,272, Oct. 13.
Shield, Fender. T. J. Soroka. 2,655,289, Oct. 13.
Shock absorber. M. Funkhouser and G. A. Brundrett. 2,655,233, Oct. 13.
Shielded antifriction bearing. C. W. Lighthall. 2,655,392, Oct. 13.
Shock absorbing device. L. C. Musilli. 2,655,269, Oct. 13.
Shoe with insole exposable to view. J. H. Sloan and M. H. Gilkerson. 2,654,945 Oct. 13.
Shoulder press machine. N. Sacchetti. 2,655,294, Oct. 13.
Shower head curtain suspension adapter. C. De Seranage. 2,654,893, Oct. 13.
Shutting-down catalytic apparatus employed for the conversion of hydrocarbons. E. J. Gohr, H. Z. Martin, C. E. Jahnig, C. W. Tyson, and J. M. Graham. 2,655,466, Oct. 13.
Sickle guard. R. L. Mills and D. A. Donahue. 2,654,987, Oct. 13.
Sign: *See*—
Luminous sign.
Signal for vehicles. F. J. Markle. 2,655,643, Oct. 13.
Signal processing apparatus. J. P. Eckert, Jr. and J. W. Mauchly. 2,655,598, Oct. 13.
Signal translating device, Semiconductor. J. J. Ebers. 2,655,610, Oct. 13.
Signaling device for motor vehicles. S. L. Mobley. 2,655,123, Oct. 13.
Signaling system, Railway. G. D. Hanchett, Jr. 2,655,594, Oct. 13.
Silencer for outside installation. J. P. Tyskewicz. 2,655,220, Oct. 13.
Siloxane structural foams. K. R. Hoffman. 2,655,485, Oct. 13.
Ski binding. V. V. Kutschera. 2,655,386, Oct. 13.
Skipping bar. C. A. Hull. 2,655,376, Oct. 13.
Slide fastener. G. H. Rakowitzky. 2,654,930, Oct. 13.
Slide fastener. M. Voity. 2,654,931, Oct. 13.
Slide film changer, Projector. R. A. Lightburn and M. W. Palmer. 2,655,075, Oct. 13.
Smoking pipe. W. Williamson. 2,655,158, Oct. 13.
Soap dispenser. R. C. Mansperger. 2,655,290, Oct. 13.
Specific-gravity tester. J. T. Webber. 2,655,034, Oct. 13.
Spin-testing device. E. Burrell. 2,655,033, Oct. 13.
Spraying equipment, Mobile. E. J. Lattner. 2,655,405, Oct. 13.
Spring suspension for vehicle trailers. W. C. Nabors. 2,655,388, Oct. 13.
Stage for microscopes, Mechanical. W. A. Gunther. 2,655,078, Oct. 13.
Stager and guide. W. F. Ward. 2,655,113, Oct. 13.
Stamp holder for embossing dies. H. C. Richenbach. 2,655,099, Oct. 13.
Stand: *See*—
Ironing stand.
Stand for rug hooking or embroidery hoops or the like, Adjustable. E. M. Johnson. 2,655,335, Oct. 13.
Stand for steam irons, Safety. E. M. Taylor. 2,655,333, Oct. 13.
Starting device. E. J. Smith. 2,655,047, Oct. 13.
Steering mechanism. T. K. Frystak. 2,655,328, Oct. 13.
Steroid cyanohydrins. G. Slomp, Jr. 2,655,517, Oct. 13.
Steroid ketone adducts. P. E. Marlatt, A. R. Hanze, A. V. McIntosh, Jr., and E. H. Levin. 2,655,500, Oct. 13.
Stitching attachment for sewing machines, Ornamental. J. P. Enos. 2,655,119, Oct. 13.
Stopper, Pipe line. J. J. Smith. 2,655,339, Oct. 13.
Storm shutter. C. C. Guercio. 2,655,094, Oct. 13.
Strand guiding and tensioning device. A. Kuettler, Jr., and F. Radakovich. 2,655,325, Oct. 13.
Stretcher, Corpse-concealing. G. R. Knopf. 2,654,897, Oct. 13.
Suction hood holder. B. J. Daigle. 2,654,950, Oct. 13.
Sulfated alcohol detergents from reaction product of primary monohydric alcohols with ethylene. F. W. Banes, W. P. FitzGerald, and J. F. Nelson. 2,655,525, Oct. 13.
Sulfur trioxide compounds of pentaalkylguanidines. W. B. Hardy and H. Z. Lecher. 2,655,528, Oct. 13.
Sulfuric acid production by absorption. L. N. Allen, Jr. and T. P. Forbath. 2,655,431, Oct. 13.
Support: *See*—
Christmas tree support. Collar support.
Support for hoops for basketball games. A. C. Holmdahl. 2,655,377, Oct. 13.
Support for semitrailers, T. B. Dalton. 2,655,240, Oct. 13.
Supporting and auxiliary driving means for conveyer belts. E. B. Snead. 2,655,253, Oct. 13.
Surgical apparatus. H. J. Klotz. 2,655,158, Oct. 13.
Switch: *See*—
Drop out fuse switch. Mercury switch.
Fluid pressure switch.
Switch. W. E. Brown, D. C. Redick, and C. E. McWilliams. 2,655,570, Oct. 13.
Switch. F. C. Schwaneke. 2,655,572, Oct. 13.
Switch for water coolers, Float. J. G. Wehrwein. 2,655,574, Oct. 13.
Switch for welding holders, Safety. A. T. Tetrault. 2,655,580, Oct. 13.
Switch silencer, Impulse. G. J. Montalto. 2,655,052, Oct. 13.
Switching apparatus, Electrical. W. G. Bourne. 2,655,568, Oct. 13.
Switching device, Alternating current. G. C. Hartley, F. H. Bray, and G. H. Hough. 2,655,605, Oct. 13.
Switching system, High-speed electronic telephone. W. A. Malthaner and H. E. Vaughan. 2,655,559, Oct. 13.
Swivel for conveyer troughs. G. Baechli. 2,655,254, Oct. 13.
Synchronizing system. R. C. Abelson. 2,655,556, Oct. 13.
Synthesis gas generation. F. H. Moore. 2,655,443, Oct. 13.
Table: *See*—
Folding table.
Table with retractable casters. R. A. Cramer. 2,655,387, Oct. 13.
Tablet container. W. F. Davoren. 2,655,259, Oct. 13.
Tabulating mechanism for typewriters and like machines. W. T. Segner. 2,655,245, Oct. 13.
Tank and conveying means for liquid material, Storage. F. O. Trump. 2,655,292, Oct. 13.
Tank closure fastener. L. S. Augspurger and D. F. Hasse. 2,655,397, Oct. 13.
Tank reactor. C. A. Bishop and T. F. Reed. 2,655,436, Oct. 13.
Tape cutting device. P. Van Cleef. 2,655,214, Oct. 13.
Tape measure, Detachable. J. L. Clark. 2,655,324, Oct. 13.
Telephone pay station adapter common to a plurality of lines. F. Kessler. 2,655,558, Oct. 13.
Telephone systems, Multiplex time division. J. H. Homrighous. 2,655,562, Oct. 13.
Television circuit. L. Seldin. 2,655,615, Oct. 13.
Temperature control for heat exchangers. R. P. L. Hytte. 2,655,351, Oct. 13.
Tertiary alkyl aryl ethers, Preparation of. D. R. Stevens and R. S. Bowman. 2,655,546, Oct. 13.
Tetrahydrophthalic acid half ester compounds. A. C. Keyl and R. H. Geils. 2,655,487, Oct. 13.
Tetrahydrophthalic alkyd resins. A. C. Keyl and R. H. Geils. 2,655,496, Oct. 13.
Textile yarn clearer. R. J. Kennedy. 2,654,938, Oct. 13.
Thermal shroud for engine mounts. A. J. Savard. 2,655,090, Oct. 13.
Thermally releasable torque limiting clutch. F. Linder. 2,655,015, Oct. 13.
Thread processing reel. R. W. Stanley. 2,654,962, Oct. 13.
Thread splitter, Ribbon rubber. D. G. Slovin. 2,654,936, Oct. 13.
3-beta-acyloxy-5,7,9(11)-pregnatrien-12,20-diones. R. H. Levin, A V. McIntosh, Jr., and G. B. Spero. 2,655,516, Oct. 13.
3-(halophenyl)-1,1-dialkyl ureas and weed control compositions and methods. C. W. Todd. 2,655,444, Oct. 13.
3-(halophenyl)-1-methyl-1-(methyl or ethyl) ureas and herbicidal compositions and methods employing same. C. W. Todd. 2,655,445, Oct. 13.
Throttle control. C. W. Finkl. 2,655,051, Oct. 13.
Timekeeping magnetic escapement and rotor unit therefor. M. P. Nichols. 2,654,989, Oct. 13.
Tire building apparatus. F. S. Sternad and J. P. Sapp. 2,655,321, Oct. 13.
Tire moving appliance. L. A. Clark. 2,655,341, Oct. 13.
Tissue package holder. G. F. Stoger. 2,655,338, Oct. 13.
Toaster with quick release crumb tray. P. J. McCullough. 2,655,095, Oct. 13.
Toe stop for roller skates. R. J. Neschke. 2,655,385, Oct. 13.
Tongue and picker stick check for looms, Parallel. J. C. Crocker. 2,655,183, Oct. 13.
Tool: *See*—
Earth working tool. Rotary surface - finishing tool.
Flexible-conduit tool.
Tool mounting. W. G. Charley. 2,655,088, Oct. 13.
Tool operating machine having apparatus for positioning work in a plurality of positions. R. V. Halvorsen, W. F. Krause, and R. J. Polivka. 2,655,059, Oct. 13.
Towel dispensing and laundering apparatus. W. L. Wells. 2,655,022, Oct. 13.
Toy cap. J. H. Lemelson. 2,654,973, Oct. 13.
Transformer, Electrical. W. N. Parker. 2,655,623, Oct. 13.
Transmission line termination. O. M. Woodward, Jr. 2,655,635, Oct. 13.
Treatment of streptomycin solutions. P. D. Coppock, L. Mulligan, J. T. McCombie, and A. G. White. 2,655,497, Oct. 13.
Truss. E. H. Prance. 2,655,149, Oct. 13.

Tube: *See*—
Electron tube.
Tube arrangement for heat exchangers. W. M. Gaylord, Jr. 2,655,350, Oct. 13.
Tube construction. J. H. Cooper. 2,655,181, Oct. 13.
Tuning vibrating bars or rods, Means for and method of. J. F. Marshall. 2,655,069, Oct. 13.
Tunneling or the like in rock, Method and means for. J. P. Danielsson. 2,655,360, Oct. 13.
Turn post for diggers, Bucket carrying. D. F. Przybylski. 2,655,209, Oct. 13.
2-acylpyrroles from 2-acylfurans, Preparation of. A. P. Dunlop and S. Swadesh. 2,655,512, Oct. 13.
Ultrasonic transmission testing. W. S. Erwin. 2,655,035, Oct. 13.
Unctuous graphite, Production of. D. Gardner. 2,655,433, Oct. 13.
Upright boiler. J. W. Throckmorton and J. S. Wallis. 2,655,137, Oct. 13.
Vacuum breaker. J. J. Cantor. 2,655,171, Oct. 13.
Valve: *See*—
Antisiphonic and sound-reducing valve.
Control valve.
Floor furnace valve.
Mixing valve.
Pilot controlled pressure relief valve.
Piston actuated sleeve type relief valve.
Reducing valve.
Valve construction, Furnace. J. L. Roof. 2,655,363, Oct. 13.
Valve for gas masks, Exhaust. G. M. Glidden. 2,655,175, Oct. 13.
Valve for hot bearing indicating systems, Detector. C. K. Steins and W. M. Keller. 2,655,166, Oct. 13.
Valve for hydraulic pumps, Automatic unloading. J. M. and F. H. Towler. 2,655,109, Oct. 13.
Valve for refrigerating installations, Regulating. H. J. Jörgensen. 2,654,976, Oct. 13.
Valvu otome. B. Richter. 2,655,154, Oct. 13.
Vehicle auxiliary light. C. A. Michel, H. C. Mead, J. H. Diedring, and E. L. Barcus. 2,655,592, Oct. 13.
Vehicle barrier. M. R. Harris. 2,655,225, Oct. 13.
Vertically adjustable supporting device. A. V. L. C. Debrie. 2,655,334, Oct. 13.
Visor supported pocket for automotive vehicles. R. B. Pfeifer and L. G. Heyden. 2,655,299, Oct. 13.
Wardrobe, Locker. J. B. O'Connor. 2,655,424, Oct. 13.
Warning device for motor vehicles, Courtesy. R. J. Ayres and D. G. Gumpertz. 2,655,642, Oct. 13.
Washer: *See*—
Renewable fuse end washer.
Washing machine water inlet system. H. C. Sway. 2,655,024, Oct. 13.
Washing machine with endless work conveyer. E. R. Zademach and W. W. Clarke. 2,655,162, Oct. 13.
Waste-packed oil filter. H. C. Thorne. 2,655,264, Oct. 13.
Watch bracelet end connector. L. Armbruster. 2,654,934, Oct. 13.
Water impervious closure for washing apparatus. F. D. Low. 2,655,165, Oct. 13.
Waterproof and pressureproof connector. H. W. Allen. 2,655,638, Oct. 13.
Water-soluble mono-betaine hydrazones of the aminochromes and preparing same. H. Sobotka. 2,655,510, Oct. 13.
Weather seal for jalousie windows. D. C. Blanchard. 2,654,921, Oct. 13.
Web handling machine. R. T. Stewart. 2,655,212, Oct. 13.
Welding electrode. J. C. Souter. 2,655,583, Oct. 13.
Welding machine. L. Braun. 2,655,585, Oct. 13.
Well formation packer assembly for measuring gas-oil ratios. G. D. Barton. 2,655,038, Oct. 13.
Well instrument, including pressurized battery. J. C. Hewitt. 2,654,960, Oct. 13.
Wharf fender. W. P. Kinneman. 2,655,005, Oct. 13.
Wheel and axle assembly for variable tread vehicles. T. Brown. 2,655,410, Oct. 13.
Winding machine, Hank. R. G. Dexter. 2,654,930, Oct. 13.
Window. A. G. Lemos. 2,654,918, Oct. 13.
Window closure, Insulated metal. W. P. Kessler. 2,654,920, Oct. 13.
Windrowing attachment, Tractor mounted. A. E. Peake and P. T. Kley. 2,654,983, Oct. 13.
Windshield cleaner. A. C. Allen. 2,654,907, Oct. 13.
Wire bundle splitter. G. W. Weber. 2,654,958, Oct. 13.
Wood chipper disk with radially oriented knives of graduated bevels. C. A. Johnson. 2,655,319, Oct. 13.
Wood joint connector. A. L. Johnson. 2,654,923, Oct. 13.
Wood treating process and composition. E. Farber and M. Sciascia. 2,655,454, Oct. 13.
Wool scouring with composition containing sulnt, alcohols, ketones, and inorganic electrolytes. H. P. Lundgren and W. Fong. 2,655,428, Oct. 13.
Wrench: *See*—
Ratcheting wrench.
Wrench having leaf spring jaw. H. Murphy. 2,655,065, Oct. 13.
Yardage reading device for attachment to revolving wheels. T. A. Hutsell. 2,655,314, Oct. 13.
Zero check or calibrating system for pulse altimeters. H. C. Allen and R. C. Ballard. 2,655,651, Oct. 13.

CLASSIFICATION OF PATENTS

ISSUED OCTOBER 13, 1953

NOTE.—First number—class, second number—subclass, third number—patent number

1— 8.1: 2,654,896
2— 2: 2,654,897
53: 2,654,898
132: 2,654,899
203: 2,654,900
3— 12.4: 2,654,901
4— 110: 2,654,902
154: 2,654,903
182: 2,654,904
5— 9: 2,654,905
36: 2,654,906
86: 2,654,907
91: 2,654,908
2,654,909
6— 1: 2,654,910
8— 139: 2,655,428
181.1: 2,655,429
12— 1: 2,654,911
7.5: 2,654,912
51: 2,654,913
141: 2,654,914
13— 24: 2,655,550
15— 108: 2,654,915
210: 2,654,916
253: 2,654,917
337: 2,654,918
16— 16: 2,654,919
18— 4: 2,654,920
48.8: 2,654,912
50: 2,654,913
2,654,914
19— 11: 2,654,915
12: 2,654,916
20— 1.2: 2,654,917
42: 2,654,918
56.4: 2,654,919
56.8: 2,654,920
82: 2,654,921
89: 2,654,922
92: 2,654,923
22— 10: 2,654,924
103: 2,654,925
23— 122: 2,655,430
168: 2,655,431
203: 2,655,432
209.1: 2,655,433
209.1: 2,655,434
263: 2,655,435
285: 2,655,436
288: 2,655,437
303: 2,655,438
24— 16: 2,654,926
82: 2,654,927
194: 2,654,928
201: 2,654,929
205.13: 2,654,930
205.14: 2,654,931
243: 2,654,932
2,654,933
248: 2,654,934
25— 1: 2,654,935
26— 1: 2,654,936
18: 2,654,937
64: 2,654,938
29— 2: 2,654,939
35.17: 2,654,940
60: 2,654,941
148.2: 2,654,942
156.8: 2,654,943
159.2: 2,654,944
182.5: 2,654,945
194: 2,654,946
30— 200: 2,654,947
32— 1: 2,654,948
8: 2,654,949
58: 2,654,950
33— 23: 2,654,951
30: 2,654,952
42: 2,654,953
94: 2,654,954
134: 2,654,955
147: 2,654,956
169: 2,654,957
169: 2,654,958
202: 2,654,959
208.5: 2,654,960
34— 45: 2,654,961
34— 183: 2,654,962
35— 70: 2,654,963
36— 4: 2,654,964
3.4: 2,654,965
37— 80: 2,654,966
145: 2,654,967
38— 107: 2,654,968
143: 2,654,969
40—134.1: 2,654,970
134: 2,654,971
41— 42: 2,655,439
43— 17: 2,654,972
44— 57: 2,655,440
46— 56: 2,654,973
118: 2,654,974
47— 89: Pl.Pt.1, 220
Pl.Pt.1, 221
61: Pl.Pt.1, 222
Pl.Pt.1, 223
48— 33.3: 2,655,441
192: 2,655,442
208: 2,655,443
50— 11: 2,654,975
21: 2,654,976
51— 103: 2,654,977
103: 2,654,978
220: 2,654,979
58— 49: 2,654,980
145: 2,654,981
59— 61: 2,654,982
60— 23: 2,654,983
228: 2,654,984
246: 2,654,985
305: 2,654,986
310: 2,654,987
59— 5: 2,654,988
116: 2,654,989
140: 2,654,990
60— 13: 2,654,991
39.09: 2,654,992
39.16: 2,654,993
39.28: 2,654,994
2,654,995
39.65: 2,654,996
39.66: 2,654,997
52: 2,654,998
53: 2,654,999
2,655,000
54: 2,655,001
54.5: 2,655,002
97: 2,655,003
61— 36: 2,655,004
48: 2,655,005
73: 2,655,006
62— 104: 2,655,007
115: 2,655,008
117: 2,655,009
119.5: 2,655,010
149: 2,655,011
64— 2: 2,655,012
18: 2,655,013
23: 2,655,014
30: 2,655,015
65— 18: 2,655,016
66— 1: 2,655,017
89: 2,655,018
128: 2,655,019
178: 2,655,020
68— 10: 2,655,021
22: 2,655,022
26: 2,655,023
207: 2,655,024
70— 135: 2,655,025
146: 2,655,026
208: 2,655,027
367: 2,655,028
411: 2,655,029
450: 2,655,030
455: 2,655,031
71— 2.6: 2,655,444
2,655,445
2,655,446
2,655,447
72— 41: 2,655,032
73— 1: 2,655,033
32: 2,655,034
67: 2,655,035
73— 68: 2,655,036
141: 2,655,037
156: 2,655,038
161: 2,655,039
183: 2,655,040
189: 2,655,041
338: 2,655,042
368: Re.23,723
382: 2,655,043
389: 2,655,044
401: 2,655,045
74— 5.2: 2,655,046
7: 2,655,047
2,655,048
99: 2,655,049
409: 2,655,050
536: 2,655,051
570: 2,655,052
650: 2,655,053
710.5: 2,655,054
711: 2,655,055
752: 2,655,056
75— 25: 2,655,057
77— 33.5: 2,655,058
64: 2,655,059
80— 32: 2,655,060
81— 3: 2,655,061
15: 2,655,062
57: 2,655,063
99: 2,655,064
119: 2,655,065
89— 20: 2,655,066
34: 2,655,067
84— 377: 2,655,068
404: 2,655,069
2,655,070
422: 2,655,071
85— 5: 2,655,072
88— 14: 2,655,073
2,655,074
28: 2,655,075
33: 2,655,076
39: 2,655,077
40: 2,655,078
89— 45: 2,655,079
93— 8: 2,655,080
27: 2,655,081
52: 2,655,082
93: 2,655,083
95— 11: 2,655,084
11.5: 2,655,085
64: 2,655,086
88: 2,655,448
97—47.36: 2,655,087
198.1: 2,655,088
226.1: 2,655,089
98— 1: 2,655,090
2: 2,655,091
2,655,092
41: 2,655,093
99.8: 2,655,094
99— 113: 2,655,449
175: 2,655,450
187: 2,655,451
400: 2,655,095
421: 2,655,096
100— 12: 2,655,097
101— 19: 2,655,098
28: 2,655,099
76: 2,655,100
149.2: 2,655,101
157: 2,655,102
350: 2,655,103
365: 2,655,104
102— 49: 2,655,105
70: 2,655,106
103— 1: 2,655,107
3: 2,655,108
5: 2,655,109
6: 2,655,110
11: 2,655,111
125: 2,655,112
225: 2,655,113
104— 32: 2,655,114
2,655,115
88: 2,655,116
106— 190: 2,655,117
106— 82: 2,655,452
173: Re.23,722
107— 12: 2,655,118
119— 102: 2,655,119
113— 7: 2,655,120
114— 183: 2,655,121
116— 1: 2,655,122
29: 2,655,123
117: 2,655,124
124.1: 2,655,125
173: 2,655,126
117— 26: 2,655,453
147: 2,655,454
118— 2: 2,654,911
20: 2,655,127
51: 2,655,128
119— 17: 2,655,129
18: 2,655,130
84: 2,655,131
121— 41: 2,655,132
2,655,133
97: 2,655,134
194: 2,655,135
122— 264: 2,655,136
281: 2,655,137
336: 2,655,138
123— 33: 2,655,140
41.09: 2,655,139
123: 2,655,141
126— 42: 2,655,142
110: 2,655,143
201: 2,655,144
125— 24.1: 2,655,145
38: 2,655,146
67: 2,655,147
91: 2,655,148
104: 2,655,149
148: 2,655,150
167: 2,655,151
276: 2,655,152
283: 2,655,153
305: 2,655,154
374: 2,655,155
120— 16.7: 2,655,156
131— 182: 2,655,157
216: 2,655,158
132— 40: 2,655,159
134— 2: 2,655,455
99: 2,655,160
111: 2,655,161
125: 2,655,162
141: 2,655,163
2,655,164
183: 2,655,165
136— 100: 2,655,551
139: 2,655,456
145: 2,655,552
137— 72: 2,655,166
102: 2,655,167
103: 2,655,168
105: 2,655,169
197: 2,655,170
218: 2,655,171
413: 2,655,172
469: 2,655,173
469: 2,655,174
525: 2,655,175
552: 2,655,176
556: 2,655,177
614.2: 2,655,178
630.17: 2,655,179
700: 2,655,180
138— 87: 2,655,181
90: 2,655,182
139— 150: 2,655,183
371: 2,655,184
143— 101: 2,655,185
2,655,186
144— 268: 2,655,187
288: 2,655,188
300: 2,655,189
146— 78: 2,655,190
218: 2,655,191
149— 13: 2,655,457
153— 26: 2,655,192
40: 2,655,193
103: 2,655,194
154— 4: 2,655,195
19: 2,655,321
30: 2,655,196
101: 2,655,458
110: 2,655,459
155— 7: 2,655,197
20: 2,655,198
105: 2,655,199
2,655,200
110: 2,655,201
124: 2,655,202
152: 2,655,203
179: 2,655,204
158— 4.5: 2,655,205
27.4: 2,655,206
28: 2,655,207
2,655,208
2,655,209
104: Re.23,721
118: 2,655,210
160— 84: 2,655,211
164— 23: 2,655,212
68: 2,655,213
84.5: 2,655,214
89: 2,655,215
166— 1: 2,655,216
2,655,217
14: 2,655,218
167— 22: 2,655,460
2,655,461
169— 11: 2,655,219
174— 147: 2,655,583
178— 7.2: 2,655,584
32: 2,655,585
69.5: 2,655,586
179— 1: 2,655,587
6.3: 2,655,588
18: 2,655,589
84: 2,655,590
100.2: 2,655,591
2,655,592
2,655,593
100.3: 2,655,594
100.11: 2,655,595
115.5: Re.23,724
2,655,596
181— 55: 2,655,220
183— 18: 2,655,221
184— 15: 2,655,222
187— 8.59: 2,655,223
8.62: 2,655,224
188— 33: 2,655,225
59: 2,655,226
2,655,227
72: 2,655,228
2,655,229
2,655,230
83: 2,655,231
88: 2,655,232
2,655,233
223.1: 2,655,234
228.6: 2,655,235
264: 2,655,237
189— 34: 2,655,238
78: 2,655,239
191— 12.2: 2,655,567
192— 127: 2,655,240
136: 2,655,241
194— 10: 2,655,242
2,655,243
85: 2,655,244
196—14.42: 2,655,462
31: 2,655,463
49: 2,655,464
2,655,465
52: 2,655,466
197— 178: 2,655,245
198— 7: 2,655,246
33: 2,655,247
35: 2,655,248
37: 2,655,249
182: 2,655,250
202: 2,655,251
2,655,252
203: 2,655,253
220: 2,655,254
200— 5: 2,655,596
42: 2,655,569
44: 2,655,570
61.26: 2,655,571
61.58: 2,655,572
83: 2,655,573
84: 2,655,574
89: 2,655,575
114: 2,655,576
132: 2,655,577
144: 2,655,578
152: 2,655,579
187: 2,655,580
201— 51: 2,655,581
73: 2,655,582
203— 39.5: 2,655,467
42: 2,655,468
46: 2,655,469
99: 2,655,470
204— 51: 2,655,471
116: 2,655,472
121: 2,655,473
162: 2,655,474
206— 4: 2,655,265
8: 2,655,266
16: 2,655,267
41.2: 2,655,268
42: 2,655,269
45.34: 2,655,270
56: 2,655,271
59: 2,655,272
209— 211: 2,655,273
210— 191: 2,655,274
200: 2,655,275
211— 13: 2,655,276
74: 2,655,277
87: 2,655,278
140: 2,655,279
653: 2,655,278
215— 11: 2,655,279
47: 2,655,280
100.5: 2,655,281
219— 4: 2,655,583
2,655,584
8: 2,655,585
10: 2,655,586
39: 2,655,587
47: 2,655,588
2,655,589
2,655,590
220— 21: 2,655,282
22: 2,655,283
44: 2,655,284
222— 20: 2,655,285
82: 2,655,286
123: 2,655,287
142.3: 2,655,288
162: 2,655,289
181: 2,655,290
2,655,291
305: 2,655,292
511: 2,655,293
223— 57: 2,655,294
83: 2,655,295
88: 2,655,296
103: 2,655,297
224— 1: 2,655,298
29: 2,655,299
45: 2,655,300
49: 2,655,301
88: 2,655,302
229— 2.5: 2,655,303
39: 2,655,304
44: 2,655,305
230— 4: 2,655,306
116: 2,655,307
132: 2,655,308
141: 2,655,309
252: 2,655,310

235—60. 17: 2,655,311	242— 55: 2,655,479	260—306. 6: 2,655,505	260— 661: 2,655,546	292— 92: 2,655,295	316— 208: 2,655,618
60. 21: 2,655,312	90: 2,655,480	310: 2,655,506	671: 2,655,549	128: 2,655,296	317— 80: 2,655,619
62: 2,655,313	135: 2,655,481	2,655,507	261— 39: 2,655,356	266. 60: 2,655,297	123: 2,655,620
95: 2,655,314	183: 2,655,482	2,655,508	44: 2,655,357	366: 2,655,298	122: 2,655,621
101: 2,655,315	2,655,483	313: 2,655,509	72: 2,655,358	294— 17: 2,655,299	196: 2,655,622
236— 12: 2,655,316	411: 2,655,484	319: 2,655,510	262— 1: 2,655,360	53: 2,655,490	210: 2,655,623
237— 16: 2,655,317	254— 98: 2,655,340	328. 5: 2,655,511	20: 2,655,361	88: 2,655,491	285: 2,655,624
240— 1. 2: 2,655,301	131: 2,655,341	328. 5: 2,655,512	28: 2,655,362	97. 24: 2,655,492	2,655,625
8. 18: 2,655,302	134. 3: 2,655,483	348. 2: 2,655,513	269— 18: 2,655,363	99: 2,655,493	241: 2,655,626
10. 61: 2,655,303	136: 2,655,342	2,655,514	19: 2,655,364	296— 44: 2,655,494	318— 28: 2,655,627
241— 69: 2,655,318	255— 3: 2,655,343	351: 2,655,515	39: 2,655,365	298— 42: 2,655,495	2,655,628
4: 2,655,319	4: 2,655,344	367. 4: 2,655,516	51: 2,655,366	88: 2,655,496	212: 2,655,629
99: 2,655,320	256— 23: 2,655,345	2,655,517	265— 68: 2,655,367	89: 2,655,497	321— 16: 2,655,630
242— 72: 2,655,322	257— 16: 2,655,346	2,655,518	268— 9: 2,655,368	164: 2,655,498	324— 2: 2,655,631
79: 2,655,323	29: 2,655,347	367. 5: 2,655,519	267— 1: 2,655,369	300— 21: 2,655,499	10: 2,655,632
84. 9: 2,655,324	126: 2,655,348	2,655,520	2,655,370	301— 1: 2,655,410	34: 2,655,633
151: 2,655,325	138: 2,655,349	408: 2,655,521	268— 44: 2,655,371	302— 49: 2,655,411	68: 2,655,634
244— 76: 2,655,326	258: 2,655,350	410. 6: 2,655,522	271— 2 4: 2,655,372	304— 9: 2,655,412	323— 22: 2,655,635
77: 2,655,327	345: 2,655,351	429: 2,655,523	32: 2,655,373	306— 18: 2,655,413	328— 138: 2,655,636
2,655,328	262. 16: 2,655,352	442: 2,655,524	36: 2,655,374	307— 32: 2,655,605	330— 7: 2,655,637
122: 2,655,329	269— 75: 2,655,353	459: 2,655,525	273— 32: 2,655,375	40: 2,655,606	28: 2,655,638
245— 84: 2,655,304	102: 2,655,354	464: 2,655,526	74: 2,655,376	88: 2,655,607	69: 2,655,639
249— 23: 2,655,330	162: 2,655,355	468: 2,655,527	273— 1. 8: 2,655,377	2,655,608	220: 2,655,640
46: 2,655,331	269— 2. 8: 2,655,435	500: 2,655,528	38: 2,655,378	2,655,609	275: 2,655,641
73: 2,655,332	28: 2,655,436	501: 2,655,529	85: 2,655,379	2,655,610	340— 83: 2,655,642
117. 2: 2,655,333	2,655,437	506: 2,655,530	128: 2,655,380	308— 6: 2,655,414	136: 2,655,643
157: 2,655,334	29: 2,655,438	515: 2,655,531	130: 2,655,381	2,655,415	163: 2,655,644
168: 2,655,335	30. 1: 2,655,439	519: 2,655,532	188: 2,655,382	134. 1: 2,655,416	227: 2,655,645
209: 2,655,336	38: 2,655,440	541: 2,655,533	274— 4: 2,655,383	310— 42: 2,655,611	253: 2,655,646
210: 2,655,337	41: 2,655,441	558: 2,655,534	2,655,384	98: 2,655,612	278: 2,655,647
211: 2,655,338	45. 5: 2,655,442	559: 2,655,535	280— 11. 2: 2,655,385	194: 2,655,613	343— 6: 2,655,648
260— 17: 2,655,305	77. 5: 2,655,443	562: 2,655,536	11. 35: 2,655,386	311— 88: 2,655,417	2,655,649
20: 2,655,306	2,655,444	563: 2,655,537	44: 2,655,387	313— 75: 2,655,418	11: 2,655,650
27: 2,655,307	82. 5: 2,655,445	564: 2,655,538	104. 5: 2,655,388	227: 2,655,419	13: 2,655,651
2,655,308	84. 5: 2,655,446	2,655,539	188: 2,655,389	282: 2,655,420	204: 2,655,652
33: 2,655,309	210: 2,655,447	565: 2,655,540	282— 39: 2,655,390	306: 2,655,421	346— 28: 2,655,425
35. 57: 2,655,609	269: 2,655,448	567. 5: 2,655,541	285— 97. 1: 2,655,391	333: 2,655,422	32: 2,655,426
49. 5: 2,655,631	280. 55: 2,655,449	570. 5: 2,655,542	286— 5: 2,655,392	346: 2,655,423	74: 2,655,427
251— 69: 2,655,339	2,655,450	576: 2,655,543	2,655,393	351: 2,655,424	
269— 5. 5: 2,655,475	289. 4: 2,655,301	608: 2,655,544	287— 54: 2,655,394	249: 2,655,614	
28: 2,655,476	274: 2,655,302	610: 2,655,545	290— 4: 2,655,602	313— 315— 27: 2,655,615	
32. 7: 2,655,477	288: 2,655,303	612: 2,655,546	2,655,603	40: 2,655,616	
32. 3: 2,655,478	294. 3: 2,655,304	620: 2,655,547	55: 2,655,604	180: 2,655,617	

Classification of Designs

D 3—12: Des. 170,598	D15—11: Des. 170,614	D45— 4: Des. 170,585	D45—16: Des. 170,598	D47— 7: Des. 170,588	D64—11: Des. 170,591
Des. 170,599	D33—14: Des. 170,616	Des. 170,587	Des. 170,599	D52— 4: Des. 170,589	D81—10: Des. 170,575
Des. 170,600	D34— 2: Des. 170,570	Des. 170,606	Des. 170,605	D64— 9: Des. 170,571	D83— 1: Des. 170,594
Des. 170,601	11: Des. 170,574	Des. 170,608	Des. 170,607	D68— 1: Des. 170,604	D86— 8: Des. 170,595
26: Des. 170,586	15: Des. 170,584	9: Des. 170,580	Des. 170,609	D68— 8: Des. 170,572	10: Des. 170,603
D12— 1: Des. 170,611	Des. 170,610	16: Des. 170,578	19: Des. 170,579	Des. 170,573	D92—28: Des. 170,565
D14— 3: Des. 170,576	D45— 4: Des. 170,577	Des. 170,582	Des. 170,602	12. 6: Des. 170,612	Des. 170,596
20: Des. 170,597	Des. 170,581	Des. 170,584	D47— 7: Des. 170,590	26: Des. 170,615	Des. 170,597
D15— 1: Des. 170,613	Des. 170,583	Des. 170,586	Des. 170,592	D81— 1: Des. 170,568	

U. S. GOVERNMENT PRINTING OFFICE: 0—1953

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE EISLER

No. 5966. Decided April 15, 1953

[203 F.2d 726; — USPQ —]

1. DOUBLE PATENTING—SECTION 121 OF PATENT ACT OF 1952—APPLICANT'S PATENT IS REFERENCE IF DIVISION WAS REQUIRED BEFORE JANUARY 1, 1953.

Since the restriction as to the use of an applicant's patent as a reference imposed by section 121 of the Patent Act of 1952 applies only to cases where there has been a requirement for restriction under that section, *Held* that the legislation has no application to a case where the requirement for division was made final prior to January 1, 1953.

2. PATENTABILITY—PARTICULAR SUBJECT MATTER—PRODUCTION OF ELECTRIC AND MAGNETIC CIRCUITS.

Certain claims relating to the production of electric and magnetic circuits and parts thereof *Held* properly rejected as failing to define invention over the appellant's prior patent.

APPEAL from the Patent Office. Serial No. 11,796.

AFFIRMED.

Frederick E. Hane (*Abraham J. Nydick, A. M. Holcombe*, and *Joseph F. Brisebois* of counsel) for the appellant.

E. L. Reynolds (*H. S. Miller* of counsel) for the Commissioner of Patents.

O'CONNELL, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner rejecting (*a*) claims 1, 4, 6, 7 and 8 of appellant's application for a patent on an invention relating to the manufacture of electrical apparatus, particularly to the production of electric and magnetic circuits and parts thereof, known as the printed circuit art, and rejecting (*b*) claims 2, 3, 5, 9 and 10 as not readable upon the elected species.

Claim 1 is illustrative:

1. A method of producing the conductive metal portions of three-dimensional electric and magnetic circuit components in which the metal portions do not lie in one plane in the finished component and cannot without severance of the conductive circuit be developed into one plane, which consists in printing a dissection of the circuit, preparing from the print a flexible metal pattern of the circuit upon a flexible insulating support, and folding said support and pattern to bring into register predetermined zones of the pattern adapted to be conductively joined in circuit and to give the pattern the desired three-dimensional form.

The following stipulation of record is deemed necessary to a proper understanding and disposition of the issues presented:

It is hereby stipulated and agreed by and between counsel for appellant and the Solicitor of the Patent Office • • • that the specification and drawings of appellant's application Serial No. 11,796 may be omitted, being identical with the specification and drawings of appellant's Patent No. 2,441,960, to be included in said record, with the following addition on the last page • • • at the end of the description • • • namely:—This application is a division of my original application Serial No. 520,991, filed February 3, 1944, now Patent No. 2,441,960, dated May 25, 1948, entitled "Manufacture of Electric Circuit Components."—

It is further stipulated and agreed that in response to the Examiner's requirement for an election of species between species (*a*) and (*b*) as set forth in his action of February 8, 1950, applicant (appellant) elected species (*a*) and requested that action on species (*b*) be suspended pending allowance of a generic claim.

Claims in group (*a*) define a species of electric circuit in which the printed circuit is folded over to be joined at selected points or areas to complete a circuit involving crossing electric conductors. The involved subject matter was described by the Board more particularly in the following excerpt from its decision, reference to specific figures of the drawing being omitted here as indicated by asterisks:

The application discloses a method for making an assembly of electric circuits or for making parts of electric apparatus such as induction coils for example. The conductive circuits are formed on the surface of a sheet-like insulation member by a process involving printing. In the electric circuits illustrated in • • • the drawing, for example, certain of the conductors cross and obviously cannot be located on the same surface of the insulation sheet and be maintained out of contact with each other as they must be. The circuits are divided by the engineer into two portions which are illustrated • • • respectively and none of the conductive elements of a circuit in each of the portions crosses any of the other elements in that portion. The circuits are metallic and are applied to a sheet of insulation. These sheets are assembled back to back with the conductive parts on the two outer sides of the assembly. Some of the circuits are then partly on one surface of the assembly and partly on the other surface and to complete them the associated ends of the interrupted parts are connected by conductive elements, such as rivets or wires, which are punched through the assembly making up the insulating backing or support. The supports may be rigid or flexible and in the modification to which claims 1, 4, 6, 7 and 8 are directed, the assembly of the portions is performed by folding the single sheets upon which the two circuit portions are located. The conductive circuits are applied to the insulating sheets by a printing process. In one way of applying the circuits, sheets are first covered with a thin layer of conductive material upon which the circuit parts are printed in acid resistant ink. The sheets are then subjected to acid in an etching process by which the unprinted parts of the metal are removed by the acid. The application discloses several modifications • • • in which inductance coils or the windings of dynamo electric machines may be formed by a similar process. The modification illustrated • • • involves the application of printed circuits or electrodes upon glass which may be formed into the elements of electronic tubes.

No generic claim was found allowable. Claims 1, 4, 6, 7 and 8 were rejected by the Examiner on the

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ground of double patenting for the stated reason that they were not patentably distinct from the claims, particularly claim 5, of the patent issued by the United States Patent Office May 25, 1948 to appellant Eisler, No. 2,441,960, based upon a British application filed February 2, 1943.

Claim 6 was also rejected by the Examiner as defining no more than the product of the Eisler patent in which seven claims, all directed to a circuit involving cross connections, the present elected species, were allowed.

The Examiner defined the involved issue as resolving itself into a question of appellant's right to obtain broad claims for an invention on which he had already received specific claims, pointing out that the species claimed in claim 5 of the Eisler patent included every step recited broadly and merely differing in scope from the limitations recited in claims 1, 7 and 8 now before the court.

The embossing on the base sheet, more specifically defined by claim 4, was considered by the Examiner as an obvious but nowise critical step to facilitate further operations to be performed on the base sheet.

For the reasons hereinbefore described, the Examiner finally concluded that appellant was not entitled to extend the period of his patented invention on the ground of a mere difference in the scope of the claims contained in the two applications, citing *In re Woodsome et al.*, 56 App. D. C. 138, 10 F.2d 1003. See also *In re Muskat et al.*, 38 CCPA (Patents) 909, 187 F.2d 626, 88 USPQ 142.

On remand, the Examiner in a supplementary statement of January 18, 1952 acknowledged appellant's right to the benefits of section 1, Public Law 690, 35 U. S. C. §§ 101–114, the Boykin Act, but held no provision of such legislation avoided the rejection on the ground of double patenting of claims 1, 4, 6, 7, and 8.

The Board of Appeals affirmed all of the grounds of rejection advanced by the Examiner, having explained the basic position of the Patent Office in detail, as noted, for example, in the following excerpt from its decision:

> Appellant bases much of his argument on the fact that claims 1, 4, 7 and 8 recite that the metal pattern prepared is flexible and is prepared on a flexible support. This does not differentiate the claims patentably from claim 5 of the patent since it is obvious that the foil layer and the insulation backing layer referred to in claim 5 must be flexible at least to a degree sufficient to permit the folding step recited therein.

A petition for reconsideration submitted to the Board was denied with respect to making any change in its decision.

Appellant cites section 121 of Public Law 593, and argues in his brief to the following effect:

> It is the consistent practice of the Patent Office that a patent issuing on an application with respect to which a requirement of division has been made shall not be used as a reference either in the Patent Office or in the courts against a divisional application if the divisional application is filed before the issuance of the patent on the parent application.

[1] The Solicitor notes, however, that the cited statute refers to divisional applications and is not a codification of existing or prior practice but sets up a new practice which provides for the requirement of restriction which shall have been made "under this section." Appellant's parent application matured into a patent May 25, 1948, and section 121 became effective January 1, 1953; thus, the legislation was inapplicable to the situation presented. *Manual of Patent Examining Procedure*, December 10, 1952, page 2, Change Sheet, paragraph 4(*b*). See also *In re Seebach*, 24 CCPA (Patents) 1101, 88 F.2d 722, 33 USPQ 149.

[2] We find no error in the decision of the Board and feel upon the record presented that it would serve no useful purpose to discuss other points argued by counsel. For the reasons stated, the decision appealed from is affirmed.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,046,312. (See Re. 21,566.)

2,128,239, E. T. Ferngren, Process of molding plastic materials; 2,175,053, same, Process and apparatus for working organic plastic material and producing containers therefrom; 2,230,188, same, Process of and apparatus for forming articles from plastic materials; 2,349,177, W. H. Kopitke, Method of and apparatus for making blown plastic articles, D. C., N. D. Ill. (Chicago), Doc. 50c234, *Plax Corp.* v. *Elmer E. Mills Corp.* Judgment of June 16, 1952, is vacated, claims 7, 8, 19, 20, 21, 23, and 26 of 2,128,239 and claim 6 of 2,349,177 held valid, but not infringed, claims 10 and 11 of 2,175,053 held invalid, claim 16 of 2,230,188 and claim 6 of 2,349,177 held not infringed; complaint as amended dismissed for want of equity July 3, 1953.

2,175,053. (See 2,128,239.)

2,198,929, M. E. Whiteman, Cement floor finisher, D. C., S. D. Calif. (Los Angeles), Doc. 12634–(WM)T, *M. E. Whiteman* v. *L. G. Matheus*. Judgment holding claims 1 to 7 inclusive invalid, complaint dismissed Jan. 16, 1953.

2,230,188. (See 2,128,239.) 2,294,497. (See 2,480,278.)

2,349,177. (See 2,128,239.)

2,371,357, W. R. Schindler, Process for manufacturing a tying member, filed July 10, 1953, D. C. Oreg. (Portland), Doc. 7066, *Germain's, Inc., et al.* v. *General Container Corp. et al.*

2,410,321, W. S. Watts, Electrical connector, D. C., S. D. Calif. (Los Angeles), Doc. 12516–WB, *Aircraft-Marine Products, Inc.* v. *Burndy Engineering Co.* Action dismissed by plaintiff Mar. 10, 1951.

2,462,399. (See Des. 139,568.)

2,480,278, 2,529,441, M. Zawistowski, Cloth-cutting machine; 2,294,497, same, Portable cutting machine, filed July 9, 1953, D. C., S. D. N. Y., Doc. 86/246, *Simplex Cloth Cutting Machine Co., Inc.* v. *H. Miamin Co., Inc.*

2,529,441. (See 2,480,278.)

2,551,110, R. Fuller, Portable form for lining irrigation ditches; 2,625,754, J. F. Morgan, Ditch forming plow, filed Apr. 16, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 1265–ND, *Fullerform, Inc.* v. *Valley Concrete Ditch Liners et al.* Same, D. C. Ariz. (Phoenix), Doc. 1879, *Fullerform, Inc.* v. *W. N. Shawver, et al.* Judgment and decree enjoining defendants from further infringement July 13, 1953. Doc. 1881, *Fullerform, Inc.* v. *Warren & Watkins et al.* Decree as above.

2,551,759, same, Kitchen range; Des. 154,874, F. M. Pence, Domestic range, filed July 9, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15702–WM, *Thermador Electrical Mfg. Co.* v. *Western Holly Appliance Co.*

2,566,287, same, Television antenna system; 2,630,531, L. H. Finneburgh, Jr., Television antenna, filed July 17, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15731–C, *The Finney Co.* v. *Clear Beam Antenna Co.*

2,572,259, M. Gottschall, White side wall tire; Des. 165,098, M. G. Muszynski et al., Pneumatic tire, filed July 8, 1953, D. C., S. D. Iowa (Des Moines), Doc. 2389, *U. S. Rubber Co.* v. *Armstrong Rubber Mfg. Co.*

2,606,377, L. B. Edwards, Method and apparatus for treating fabric garments during the pressing operation, filed July 22, 1953, D. C., S. D. Tex. (Houston), Doc. 7586, *Cameron Iron Works, Inc.* v. *Speed-O-Valve Co.* Same, D. C., N. D. Ill. (Chicago), Doc. 53c334 and 52c1783, *Fabricare Chemical Corp. et al.* v. *Sta-Nu Corp. et al.* Order holding patent invalid entered July 6, 1953.

2,621,075, W. Sedar, Multiple irrigation tubing, filed July 14, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15718–C, *Resin Industries* v. *A. M. Andrews Co. et al.*

2,621,138, B. Messing, Method of forming laminated quilted material; 2,621,139, same, Laminated sheet material and method of making such material, filed July 14, 1953, D. C., M. D. N. C. (Greensboro), Doc. 7689, *The Jason Corp. et al.* v. *Bolta Products Sales, Inc.*

2,621,139. (See 2,621,138.) 2,625,754. (See 2,551,110.)

2,629,710, C. H. McBurney, Halomethylated vinyl-aromatic copolymers, filed July 16, 1953, D. C. Del., Doc. 1551, *Rohm & Haas Co.* v. *The Permutit Co.*

2,630,531. (See 2,566,287.)

Re. 21,566 (of 2,046,312), L. D. Anderson, Process of concentrating ores, filed July 13, 1953, D. C. N. Mex. (Albuquerque), Doc. 2393, *Potash Co. of America* v. *Duval Sulphur & Potash Co.*

Des. 139,568, 2,462,399, W. H. Hinchman, Conduit spacer, D. C., E. D. Mich. (Detroit), Doc. 11036, *Underground Products Co.* v. *Jim Robbins Co.* Judgment for defendant, patent and design held invalid (notice July 14, 1953).

Des. 154,874. (See 2,551,759.)

Des. 161,025, Hoffmann & Atkins, Combined electrical jig saw and sander; Des. 162,279, Andresen & Andresen, Jig saw, D. C., N. D. Ill. (Chicago), Doc. 50c1710, *Burgess Vibrocrafters, Inc.* v. *Atkins Industries, Inc., et al.* Filed mandate USCA, judgment of District Court reversed; remanded to District Court for dismissal of counterclaim and supplemental counterclaim and to enter judgment, and that Des. 161,025 is invalid June 8, 1953.

Des. 162,279. (See Des. 161,025.)

Des. 165,098. (See 2,572,259.)

NOTICES

Annual Index of Patents

The 1952 edition of the Annual Index of Patents has been published. Copies may be obtained from the Superintendent of Documents, Government Printing Office, Washington 25, D. C.

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Adjudicated Patents

(C. A. Mo.) Novy Patent No. 2,327,662, for a garment, *Held* invalid. *Weil-Kalter Manufacturing Company* v. *Sel-Mor Garment Company et al.*, 205 F.2d 535; 98 USPQ 60.

(D. C. Mich.) Hinchman Patent No. 2,462,399, for a conduit spacer, *Held* invalid. *Hinchman et al.* v. *Jim Robbins Company*, 113 F. Supp. 302; 98 USPQ 91.

(D. C. Mich.) Hinchman Design Patent No. 139,568, for a conduit spacer, *Held* invalid. *Id.*

Bound Volume of Commissioners' Decisions

The 1952 bound volume of the Decisions of the Commissioner of Patents is released from the printer and available from the Superintendent of Documents, Government Printing Office, Washington 25, D. C., price $2.00.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

E. I. du Pont de Nemours and Company has placed 415 additional patents on the Register under Schedules XXVII, XXVIII, XXIX, XXX, XXXI, XXXII, XXXIII, XXXIV, and XXXV. Listing of these patents began in the *Register* section of the OFFICIAL GAZETTE, Sept. 22, 1953, and is continuing in succeeding issues of the OFFICIAL GAZETTE until the listing is completed. These patents, which are available for licensing on reasonable terms as indicated at the beginning of each schedule, are in addition to more than 5,800 patents registered previously by the Du Pont Company and listed during 1948–1953 in the *Register* sections of the OFFICIAL GAZETTE. The present listing includes Reg. Nos. 51,856 through 51,950.

Inquiries concerning these patents should be addressed to: Patent Division, E. I. du Pont de Nemours and Company, Wilmington 98, Del.

SCHEDULE XXVII (310 patents)—*Continued*

Unrestricted licenses will be granted under these patents.

Pat. 2,598,407. Cross-Linked Polymeric Materials and Method of Making Same. May 27, 1952. Cross-linking of hydroxyethyl cellulose acetate chloroacetate or cellulose acetate chloroacetate by reacting with a compatible polythiol or mercaptide thereof. Group 28—83.

Pat. 2,599,430. Register Control System for Web Cutting Mechanisms. June 3, 1952. A register control system for web cutting mechanisms wherein the controlling means is a photoelectric device. Group 36—19.

Pat. 2,599,620. Carboxymethyl Ethers. June 10, 1952. Etherification of starch with monochloroacetic acid in presence of alcohol and at elevated temperatures. Group 28—89.

Pat. 2,600,031. Cellulose Ester Manufacture. June 10, 1952. Preparation of cellulose acetate from cellulose impregnated with ammonium thiosulfate. Group 28—89.

Pat. 2,600,606. Water-Soluble Derivatives of Unsulfonated Lignin. June 17, 1952. A water-soluble derivative of lignin obtained by reacting lignin with boric acid and a phenol and then alkalising the resulting product. Group 28—89.

Pat. 2,600,649. Process for Producing Crystal Violet. June 17, 1952. A process for improving the quality of crystal violet containing crystal violet-zinc chloride complex impurities which comprises treating the contaminated color with a solution of a water-soluble ferrocyanide. Group 28—12—89.

Pat. 2,600,831. Light Sensitive Silver Halide Photographic Element. June 17, 1952. A photographic light sensitive silver halide element having an outer layer containing a small amount of a compound such as a sodium-p-tertiary - octyl - phenoxy - ethoxy - ethyl-sulfonate. Group 39—12.

Pat. 2,602,285. Process of Producing Crepeable Yarn. July 8, 1952. A crepeable spun yarn is produced on a direct spinner by combining yarns displaying widely different orientation, crystallinity and shrinkage properties. Group 22—23.

Pat. 2,602,800. Recovery of Phthalocyanine Coloring Matters. July 8, 1952. The isolation of copper-phthalocyanine prepared by the urea-process from the reaction mass by treatment with 85%–100% H_2SO_4 and separating the components by treatment with water. Group 28—89.

Pat. 2,604,817. Light Polarizing Composition. July 29, 1952. Light polarizing sheet, useful for automobile headlights, comprising birefringent oriented fibers of a transparent polymeric substance, such as polyethylene terephthalate, embedded in a transparent binder having a refractive index near that of the lower index of the birefringent material. Groups 28—83; 38—31.

Pat. 2,605,006. Apparatus for Charging Metal Ingots Into Molten Metal. July 29, 1952. An apparatus for charging solid metal ingots into a body of molten metal in a melt pot comprising an elevator containing a pivotal dumping ingot carrier. Group 33—12.

Pat. 2,605,238. Molybdena-Amorphous Titania Catalysts. July 29, 1952. Catalyst composition containing molybdenum trioxide and amorphous titanium dioxide having a surface area of at least 150 square meters per gram in specified proportions, and process for preparation of the composition. Group 28—89.

Pat. 2,605,239. Coprecipitated Silver-Beryllium Oxide Catalyst. July 29, 1952. A silver-beryllium oxide catalyst, adapted for oxidation of ethylene to ethylene oxide, made by coprecipitating a reducible oxygen-containing compound of silver and a corresponding compound of beryllium in an Ag : Be ratio of from 10 : 1 to 5000 : 1 and reducing the precipitate. Group 28—89.

Pat. 2,605,240. Silver-Beryllium Oxide Catalyst and Method for Making Same. July 29, 1952. A silver-beryllium oxide catalyst made by coprecipitating a reducible oxygen-containing compound of silver and a corresponding compound of beryllium, mixing the coprecipitate with additional reducible silver compound, reducing, and then heating at 350° to 600° C. for 3 to 10 hours. Group 28—89.

Pat. 2,605,555. Spinning Device. Aug. 5, 1952. Apparatus for separating a travelling filament from a fluid which comprises a hollow member having a tapered end section. Group 35—52.

Pat. 2,606,832. Photographic Elements, Having an Anchoring Substratum Composed of a Water-Insoluble Vinyl-Pyridine Polymer. Aug. 12, 1952. A laminated photographic element comprising a support, a water permeable colloid layer, anchored to a surface of said support by means of an intercalated layer composed of a water insoluble vinylpyridine polymer. Group 39—12.

Pat. 2,606,834. Photographic Elements With Light Filtering Layers. Aug. 12, 1952. Photographic elements, including a light filtering layer and a light sensitive silver halide emulsion layer, said filter layer comprising a salt of a vinylpyridine polymer with an acid dye. Group 39—12.

Pat. 2,606,894. Preparation of Organic Solvent-Soluble Vinylidene Chloride-Acrylonitrile Interpolymers. Aug. 12, 1952. Process for preparing an organic solvent-soluble vinylidene chloride-acrylonitrile interpolymer which comprises reacting a mixture of the materials in aqueous solution in the presence of sulfated methyl oleate as emulsifying agent, ammonium persulfate as catalyst and meta sodium bisulfite as activator. Group 28—89.

Pat. 2,607,081. Inhibiting Polymerization During Preparation of Synthetic Resin Sheets. Aug. 19, 1952. Process step in polymerizing methyl methacrylate over an aqueous salt solution, involving use of nitrite salts of alkali or alkaline earth metals to inhibit polymerization below the interface. Group 28—83.

Pat. 2,607,480. Shell Inspection Apparatus. Aug. 19, 1952. Automatic shell inspection apparatus for blasting cap shells. Groups 28—84; 35—59.

Pat. 2,607,672. Ignition Composition. Aug. 19, 1952. An ignition composition comprising bismuth, selenium and a minor percentage of an inorganic oxygen-supplying ingredient. Group 28—84.

Pat. 2,607,775. Vinylpyridine-Mercaptan Adducts. Aug. 19,1952. Alkylthioethylpyridines. Group 28—89.

Pat. 2,607,776. Mercaptoethyl Pyridines and Method of Preparing Same. Aug. 19, 1952. Acylthioethylpyridines and mercaptoethylpyridines and preparation by reacting a vinyl pyridine with a carbothiolic acid. Group 28—31—89.

Pat. 2,609,048. Shaping Device. Sept. 2, 1952. Process and device for obtaining shaped articles from block material, particularly pipe insulation from foamed material, involving several arcuately shaped cutters reciprocated in the lengthwise direction. Group 39—81.

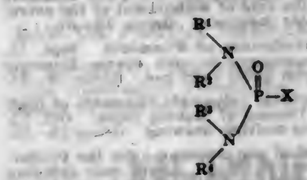
Pat. 2,609,371. Carbocyanine Dye. Sept. 2, 1952. Symmetrical carboxy substituted oxacarbocyanines having a hydrocarbon substituent on the trimethine chain. Group 28—89.

Pat. 2,610,213. Manufacture of DDT. Sept. 9, 1952. DDT is prepared by condensing chloral and monochlorobenzene in emulsion in 95% to 98% H_2SO_4 at a temperature below 40° C. while adding monochlorobenzene to prevent separation of solid phase. Group 28—33.

Pat. 2,610,806. Constant Tension Winding. Sept. 16, 1952. A magnetic eddy current spindle adaptor for winding yarn at constant tension. Group 35—52.

Pat. 2,612,500. N-(P-Aminophenyl) Hexamethylenimines. Sept. 30, 1952. Compounds taken from the class consisting of an N-(p-aminophenyl) hexamethylenimine and its acid addition salts useful as photographic color developers. Group 39—12.

Pat. 2,613,224. Process for Making Phosphoramides. Oct. 7, 1952. Process for making oil having insecticidal properties by heating metallic sodium with



where R^1, R^2, R^3 and R^4 are alkyl of 1 to 5 carbons and X is chlorine or bromine. Group 28—89.

Pat. 2,614,029. Purification of Silver Nitrate Solutions. Oct. 14, 1952. Process of purifying an aqueous solution of silver nitrate by treating the solution with silver oxide to obtain a specified pH and passing the resulting solution into contact with a water insoluble porous solid absorbent, e. g., alumina or magnesia. Group 28—89.

Pat. 2,615,899. Catalyst and Process for Ethylene Oxide Manufacture. Oct. 28, 1952. A catalyst composition containing a silver catalyst and granular artificial graphite, the graphite comprising from 25% to 75% of the volume of the composition; and process for making ethylene oxide using the catalyst. Group 28—89.

Pat. 2,615,900. Process and Catalyst for Producing Ethylene Oxide. Oct. 28, 1952. Catalyst composition containing metallic silver, a metal halide other than a fluoride in amount not exceeding one-half the weight of the silver, a support for the silver and from 25% to 75% by volume of granular artificial graphite; and ethylene oxide process employing the catalyst. Group 28—89.

Pat. 2,615,959. Apparatus for Measuring Moisture in Yarn. Oct. 28, 1952. Apparatus for measuring moisture content of packaged yarn by contacting it with fluid-actuated electrodes in a self-balancing bridge circuit. Group 35—52—65.

Pat. 2,618,574. Surfaces of Plastics Coated With Ink Containing a Chlorinated or Chlorosulfonated Polymer of Ethylene. Nov. 18, 1952. Polyethylene displaying adherent, smear-resistant indicia of ink containing chlorinated or chlorosulfonated polymer of ethylene. Group 28—89.

Pat. 2,618,660. Controlled Oxidation of Alcohols to Aldehydes Using Sulfur Compounds. Nov. 18, 1952. Process step in air oxidation of alcohol over silver, involving presence of small amounts of organic sulfur to suppress by-product formation. Group 28—89.

Pat. 2,619,188. Monofilament Screen Pack. Nov. 25, 1952. A self-supporting screen pack comprising a plurality of woven, crimped screens made from monofilaments containing vinylidene chloride. Group 28—89.

Pat. 2,619,292. Slurry Pump With Screened Discharge for Preventing Lump Accumulation. Nov. 25, 1952. An improved rotary positive displacement pump of the gear-within-a-gear type wherein the discharge port is made of a perforated plate. Group 35—61.

Pat. 2,619,429. Preparation of Water Soluble Potassium Polymetaphosphate From Potassium Kurrol Salt. Nov. 25, 1952. Process for preparing a water soluble potassium polymetaphosphate by contacting potassium Kurrol salt with a solution of hydrogen peroxide; and product obtained. Group 28—89.

Pat. 2,620,290. Alpha,Omega-Thiocyanoalkanol Insecticidal Compositions and Their Use. Dec. 2, 1952. Insecticidal composition containing 4-thiocyanobutanol-1 or 5-thiocyanopentanol-1 in solution in a ketone or water, and method for controlling insects employing the composition. Group 28—33.

Pat. 2,620,903. Web Winding Device. Dec. 9, 1952. An apparatus for transferring traveling continuous web running to a roll being wound to an empty rapidly rotating core comprising means for shifting the roll being wound from a winding position to a position for unloading and for simultaneously shifting the rotating empty core to the winding position in contact with the traveling web. The improvement lies in control of the knife or severing mechanism and transfer means by compressed air. Group 35—52.

Pat. 2,621,040. Apparatus for Assembling Sheets of Material. Dec. 9, 1952. A collating machine for assembling sheets of paper with sheets of carbon interposed between each two sheets of paper. Group 35—59.

Pat. 2,621,232. Apparatus for Measuring Moisture. Dec. 9, 1952. Apparatus for measuring moisture in material such as staple fiber by sampling the electrical resistance at several locations, translating the results into equivalent moisture values and indicating the average. Group 36—13.

Pat. 2,621,233. Apparatus for Measuring Moisture in Sheet Material. Dec. 9, 1952. Apparatus for measuring moisture in pulp sheet by sampling the electrical resistance through the sheet at several locations successively, translating the results into equivalent moisture value and indicating the average. Group 36—13.

Pat. 2,622,769. Device for Discharging Nonflowing Materials. Dec. 23, 1952. Rotatable conical discharge device which forms the bottom of a continuous or semi-continuous aging tower. Group 35—52.

Pat. 2,624,916. Glossy Molding Process for Ethylene Polymers. Jan. 13, 1953. Process steps involving use of metal molds surfaced with a layer of thermoset resin 0.5 to 5 mils thick. Group 28—83.

Pat. 2,628,152. Process of Dyeing Modified Polyacrylonitrile Staple Fabric. Feb. 10, 1953. Dyeing modified polyacrylonitrile staple fabric in rope form with an acid dye in the presence of salicylic acid. Group 22—96.

Pat. 2,628,167. Method of Making Colloid Silver Halide Emulsions Containing Thallium. Feb. 10, 1953. Method of making a light sensitive colloid silver halide emulsion comprising adding a water soluble thallous salt and precipitating silver halide. Group 28—89.

Pat. 2,628,952. Butadiene Hydrocarbon Elastomers Having Improved Light Stability. Feb. 17, 1953. Butadiene hydrocarbon elastomers having incorporated therein 0.05%–10% of a nickel salt of a dialkyldithiocarbamic acid. Group 28—83.

Pat. 2,629,181. Cutoff Gauge for Winding Machines. Feb. 24, 1953. A gauge for setting a trip mechanism for shut-off of a winding machine. Group 35—52—65.

Pat. 2,629,713. Heterogeneous Acidic Hydrolysis of Polymeric Esters. Feb. 24, 1953. Heterogeneous hydrolysis of cellulose acetate with substituted sulfonic, phosphonic, or phosphinic acids containing at least five carbon atoms and of polyvinyl acetate with dodecyl benzene sulfonic acid. Group 28—89.

Pat. 2,629,716. Preparation and Hydrolysis of Esters. Feb. 24, 1953. Use of trifluoroacetic acid as a hydrolysis catalyst and as a catalyst for esterification of organic esters, both monomeric and polymeric particularly cellulose esters. Group 28—89.

Pat. 2,629,755. Method of Plasticizing Rubber. Feb. 24, 1953. Incorporating in unvulcanized rubber 0.05%–5% of an acyl ester of a naphthyl thiol devoid of amino substituents wherein acyl group contains less than 9 carbon atoms. Group 28—83.

Pat. 2,631,924. Preparation of Hydrolyzable Titanium Sulfate Solutions. Mar. 17, 1953. Hydrolyzable titanium sulfate solution preparation by reacting a titaniferous ore-titaniferous slag mixture with strong sulfuric acid and dissolving sulfated mix in an aqueous solvent. Group 28—89.

SCHEDULE XXVIII—51 patents

Licenses will be granted under these patents to make, use, and sell (1) clear polyhexamethyleneadipamide finishes, (2) polyhexamethyleneadipamide in the form of flakes, molding powders, yarn, staple and uniform diameter filaments and bristles, and (3) polyhexamethylenesebacamide in the form of filaments, bristles, flakes, and molding powders.

Pat. 2,071,250. Linear Condensation Polymers. Feb. 16, 1937. This patent relates broadly to fiber-forming synthetic linear condensation polymers and their preparation. Group 28—51.

Pat. 2,071,251. Fiber and Method of Producing It. Feb. 16, 1937. Oriented fibers from synthetic linear condensation polymers and methods for producing. Group 28—51.

Pat. 2,071,253. Linear Condensation Polymers. Feb. 16, 1937. Synthetic linear condensation polyamides, particularly of the amino acid type and methods of producing same. Group 28—51.

Pat. 2,130,523. Linear Polyamides and Their Production. Sept. 20, 1938. Synthetic linear condensation polyamides having a unit length of at least nine derived from dibasic acids and aliphatic diamines and methods for producing. Group 28—51.

Pat. 2,130,948. Synthetic Fiber. Sept. 20, 1938. Fiber-forming polyamides of the diamine-dibasic acid type, their fibers and methods of preparation. Group 28—51.

Pat. 2,137,235. Shaped Articles From Polymeric Materials. Nov. 22, 1938. Improved cold-drawing of fiber-forming synthetic polymers via preliminary soaking in a hydroxylated non-solvent. Group 28—51.

Pat. 2,163,584. Preparation of Polyamides. June 27, 1939. A process for making superpolyamides which comprises mixing in an aqueous medium the diamine and dicarboxylic acid in such proportions that the pH of the mixture is at the inflection (equivalency) point. Group 28—51.

Pat. 2,163,636. Process for Preparing Linear Condensation Polyamides. June 27, 1939. Polyamide-forming reactants are heated in the presence of sufficient added water to keep the mass liquid to effect the first stage of polymerization whereupon the water is removed by vaporization and the polymerization completed. Group 28—51.

Pat. 2,165,253. Preparation of Polyamides. July 11, 1939. Light colored polyamides are prepared in inert metal reactors constructed or lined with silver, tantalum, chromium containing ferrous metals or chromium plated metals, under oxygen-free conditions. Group 28—51.

Pat. 2,174,527. Polyamides. Oct. 3, 1939. Viscosity stable polyamides and the method of preparing by polymerizing or heating the polymers in the presence of a monofunctional amide-forming compound. Group 28—51.

Pat. 2,201,741. Polymeric Materials. May 21, 1940. Extraction of polyamides with alkali. Group 28—51.

Pat. 2,205,722. Process for Preparing Delustered Synthetic Fibers and the Like. June 25, 1940. Delustered polyamide filaments, pellicles and the like are prepared by adding a delusterant to a polyamide-forming composition, then polymerising and spinning. Group 28—51.

Pat. 2,212,772. Synthetic Polymers and Shaped Articles Therefrom. Aug. 27, 1940. Rapid chilling of shaped polymer to improve toughness and drawability. Group 28—51.

Pat. 2,214,402. Polymeric Materials. Sept. 10, 1940. Improvement in pliability by plasticizing with phenol and H_2O or alcohol. Group 28—51.

Pat. 2,217,743. Apparatus. Oct. 15, 1940. In an apparatus for melt spinning, the combination of melting grid, spinning pump, and spinneret in an assembly removable from the heating jacket at the spinning position. Group 35—52.

Pat. 2,226,529. Synthetic Filament. Dec. 31, 1940. Improving bristle qualities by subjecting oriented filaments to hot water treatment. Group 28—51.

Pat. 2,244,208. Polymeric Material. June 3, 1941. Cold rolling of polyamides. Group 28—51.

Pat. 2,253,176. Method and Apparatus for Production of Structures. Aug. 19, 1941. Films, yarns, ribbons and the like are melt-spun from nylon by bringing solid flake in contact with a heated metal grid and then extruding the molten composition. Groups 28—51; 35—52.

Pat. 2,266,363. Apparatus for the Production of Filaments. Dec. 16, 1941. Spinneret assembly comprising a spinneret and a spinneret pack containing finely divided granular material. Group 35—52.

Pat. 2,266,368. Apparatus for the Production of Artificial Structures. Dec. 16, 1941. A spinneret assembly useful in the melt spinning of nylon comprises screens and layers of sand of varying particle size. Group 35—52.

Pat. 2,273,105. Method and Apparatus for the Production of Artificial Structures. Feb. 17, 1942. Freshly extruded filamentary streams of molten nylon are passed into a chimney through which air passes in a straight line, non-turbulent flow, in a direction transverse to the path of travel of the filaments. Groups 28—51; 35—52.

Pat. 2,278,875. Method and Apparatus for the Production of Artificial Structures. Apr. 7, 1942. The melt spinning of organic filament-forming compositions which tend to decompose with the formation of gaseous decomposition products are subjected to pressure before being metered to the extrusion means. Groups 28—51; 35—52.

Pat. 2,278,878. Method for Delustering and Pigmenting. Apr. 7, 1942. Nylon polymers are delustered or pigmented by adding the pigment to the partially polymerized mass in the autoclave, preferably by means of a lock. Group 28—51.

Pat. 2,285,552. Production of Filaments. June 9, 1942. Extruding molten polyhexamethylene adipamide through a circular orifice into a non-solvent liquid maintained at 35°–45° C. Group 28—51.

Pat. 2,289,232. Method and Apparatus for Producing Filamentary Structures. July 7, 1942. In the step of cold-drawing synthetic yarns, the undrawn yarn is passed at least one turn about a snubbing pin. Groups 28—51; 35—52.

Pat. 2,289,774. Process and Apparatus for Shaping Polymeric Materials. July 14, 1942. Nylon flake suitable for melt spinning is prepared by continuously extruding the polymer as a rough ribbon, quenching, cutting the still hot ribbon into flake and collecting the hot flake. Groups 28—51; 35—52.

Pat. 2,289,860. Process and Apparatus for the Production of Artificial Fibers and the Like. July 14, 1942. Melt-spun yarns are steamed immediately after quenching. Groups 28—51; 35—52.

Pat. 2,292,905. Artificial Filament. Aug. 11, 1942. Process and apparatus for production of tapered filaments by uniformly varying the rate of withdrawal of the extrudate at repeated regular intervals. Group 28—51.

Pat. 2,295,942. Manufacture of Filaments. Sept. 15, 1942. Process and equipment to spin coarse filaments involving screw extrusion under inert gas. Group 28—51.

Pat. 2,298,868. Synthetic Polyamide Filaments of High Impact Strength and Process of Making Same. Oct. 13, 1942. Process involving multiple drawing. Group 28—51.

Pat. 2,300,083. Method and Apparatus for the Production of Structures. Oct. 27, 1942. In the melt spinning of organic filament-forming compositions, bridging of polymer is prevented in the hopper above the melting grid by a confining skirt and an insulating ring in the melting assembly. Groups 28—51; 35—52.

Pat. 2,324,397. Method for Production of Continuous Structures. July 13, 1943. Melt-extruded synthetic linear polymer structures, particularly monofils, are quenched by means of a downwardly flowing liquid quenching medium. Group 28—51.

Pat. 2,341,423. Process of Producing Synthetic Linear Polyamide Filaments. Feb. 8, 1944. Treating a polyamide filament with a solution of phenol in a non-solvent for the polyamide, then heating to remove the phenol. Group 28—51.

Pat. 2,341,759. Method of Dispersing Pigments in Polyamides. Feb. 15, 1944. Mixing polyamide forming material with a dispersion of pigment in an aqueous system containing a protective colloid, heating to polymerise. Group 28—51.

Pat. 2,343,174. Treatment for Polyamides. Feb. 29, 1944. Method and apparatus for recovering polyamide waste by depolymerizing in a lock and repolymerising in an autoclave. Group 28—51.

Pat. 2,343,887. Apparatus for Cutting Tapered Filaments. Mar. 14, 1944. Apparatus for cutting tapered filaments of synthetic linear polymers into the units of substantially identical length and shape. Groups 28—51; 35—52.

Pat. 2,345,533. Process for Incorporating Finely Divided Materials in Molten Compositions. Mar. 28, 1944. Pigmented synthetic linear superpolymer articles are prepared by coating particles of the polymer, such as flakes, with pigment, either in dry powdered form or in a liquid dispersion, then melting and extruding. Group 28—51.

Pat. 2,348,751. Treatment for Polyamides. May 16, 1944. Process for depolymerizing a solid synthetic linear polyamide to a fluid mass by heating with water, removing the water, and polymerizing the residue. Group 28—51.

Pat. 2,369,553. Extrusion Apparatus. Feb. 13, 1945. A process and apparatus for measuring and controlling the pressure developed in a screw pump used to extrude molten synthetic linear polymers to a spinneret in the spinning of filaments. Groups 28—51; 35—52.

Pat. 2,378,667. Phenol-Formaldehyde Resin and Polyamide Composition. June 19, 1945. Composition of a polyamide and a phenol-formaldehyde resin. Group 28—51.

Pat. 2,385,890. Spinning Process. Oct. 2, 1945. Very small amounts of a finely divided inert material are used in the polyamide when preparing bright nylon yarns to improve the drawing characteristics of the yarn. Group 28—51.

Pat. 2,391,719. Apparatus for Cutting Filaments. Dec. 25, 1945. Apparatus comprising a rotary cutting assembly, particularly adapted for cutting tapered filaments of synthetic linear polymers. Group 35—52.

TRADE-MARKS

OFFICIAL GAZETTE, OCTOBER 13, 1953

[VOL. 675. No. 2]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.
As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 641,747. Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa, Societa per Azioni, Milan, Italy. Filed Feb. 4, 1953.

MERINOVA

Applicant claims ownership of Italian Registration No. 108,207, dated Oct. 15, 1951.
For Artificial Textile Fibres Constituted Wholly or in Part by Protein Substances.

Ser. No. 644,251. Palms From Florida, Inc., Miami, Fla. Filed Mar. 26, 1953.

MINIPALM

For Small Growing Palms.
Claims use since on or about Aug. 26, 1952.

Ser. No. 644,262. Virginia Hickory Products Division, Marion Handle Mills, Inc., Marion, Va. Filed Mar. 26, 1953.

SMOKE RINGS

For Hickory Wood Disks Having Apertures Therein Intended for Use as a Hickory Flavor-Imparting Supplemental Fuel in Barbecuing, Grilling, and Broiling Meats, Fish, Fowl, and the Like.
Claims use since Mar. 19, 1953.

Ser. No. 644,350. General Latex and Chemical Corporation, Cambridge, Mass. Filed Apr. 1, 1953.

PEBLGRIP

For Natural or Synthetic Latex Compound Containing Granular Rubber or Rubberlike Particles.
Claims use since Dec. 15, 1952.

CLASS 2

RECEPTACLES

Ser. No. 635,021. Bag Service, Inc., Decatur, Ind. Filed Sept. 9, 1952.



"BAGDAD"
THE PROPHET OF PROFIT

No claim is made to the word "Bagdad" apart from the mark as shown.
For Textile Bags.
Claims use since Aug. 15, 1944.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 631,982. Bernard Edward Company, Chicago, Ill. Filed June 30, 1952.

beco

For Supplies for Pets—Namely, Bird Cages, Dog Feeding Dishes, Bird Cage Stands, and Parakeet Toys.
Claims use since August 1951.

Ser. No. 636,129. Hiawatha Equipment Company, Manistique, Mich. Filed Oct. 3, 1952.

HIAWATHA

For Animal Equipment—Namely, Cages, Feed Trays, Feeding Dishes, Dusting Pans, Carrying Cages, Cage Covers, Rest Boards, Cage Floor Screens, Dropping Pans, Nest Boxes, and Cage Pedestals.
Claims use since Feb. 16, 1950.

Ser. No. 637,893. Totem Farms, Edmonds, Wash. Filed Nov. 10, 1952.

HOP-A-HEAD

For Equipment for Raising Animals, Excluding Fowl—Namely, Feeder Boxes, Feeder Box Guards, Nest Boxes, Hutch Card Holders, Hutches, and Salt Holders.
Claims use since on or about July 15, 1952.

Ser. No. 641,115. Advertising Promotion Products, New York, N. Y. Filed Jan. 22, 1953.

The KEYNOTER Line

No claim is made to the word "Line" and to the representation of the key apart from the mark shown on the drawing.
For Leather Key Cases, Coin Purses, Card Cases, Billfolds, and Wallets.
Claims use since November 1952.

Ser. No. 645,047. Manhattan Novelty Corporation, New York, N. Y. Filed Apr. 10, 1953.

TIMELY

For Wallets, Billfolds, and Traveling Cases.
Claims use since Mar. 26, 1953.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 630,684. Sandpaper Incorporated, Rockland, Mass. Filed June 3, 1952.

U-BOND

The word "Bond" is disclaimed apart from the mark as shown.
For Abrasive Paper.
Claims use since Feb. 1, 1952.

Ser. No. 639,410. Better Brushes, Incorporated, Palmer, Mass. Filed Dec. 13, 1952. (Sec. 2f.)

BETTER BRUSHES

Applicant claims ownership of Registration No. 206,542.
For Metal Cleaner and Polish, Silver Polish, Floor Wax, and Furniture Polish.
Claims use since January 1926.

Ser. No. 640,061. The Zip Abrasive Company, Cleveland, Ohio. Filed Dec. 26, 1952.

ZIP

Applicant claims ownership of Registration No. 129,950.
For Lapping or Grinding Compound, Which Is a Mixture of Abrasives Free From Oil and Other Lubricant, Adapted to Uses in All Industries Where Two Metal or Other Surfaces Touch and a Perfect or Complete Contact, Union, or Joint Between Such Surfaces Is Required by Abrasion, Such as Grinding All Kinds of Valves, Grinding Pipes Into Joints, Lapping in of Pistons, Links, and the Like.
Claims use since August 1918.

CLASS 5

ADHESIVES

Ser. No. 642,497. Swan-Finch Oil Corporation, New York, N. Y. Filed Feb. 19, 1953.

SAFCO

Applicant claims ownership of Registrations Nos. 307,001, 363,784, and 425,344.
For Core Oils and Core Binders.
Claims use since May 5, 1937.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 631,796. Fulton Bag and Cotton Mills, Atlanta, Ga. Filed June 26, 1952.



The name "Fulton," the words "Rodent," "Repellent," "Treated," "Bags" and the pictorial representation of the bag are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 305,415.
For Composition for Applying to Cotton and Burlap Bags To Render Them Rodent Repellent.
Claims use since May 1, 1952.

Ser. No. 636,664. Warwick Wax Co. Inc., Long Island City, N. Y. Filed Oct. 15, 1952.

POLYMEKON

Applicant claims ownership of Registration No. 436,541.
For Chemically Microcrystalline Wax Derived From Petroleum.
Claims use since Aug. 12, 1952.

Ser. No. 637,438. Glyco Products Co. Inc., Brooklyn, N. Y. Filed Oct. 31, 1952.

TETRINE

For Ethylene Diamine Tetraacetic Acid and Salts of Said Acid Used as Sequestering Agents.
Claims use since Sept. 12, 1952.

Ser. No. 641,477. Chas. S. Tanner Co., Providence, R. I. Filed Jan. 28, 1953.

LUBRITONE

For Chemical Preparation for Use in Processing Textile Material Such as Cloth, Thread, and Yarn.
Claims use since June 13, 1952.

Ser. No. 645,237. Fabric Chemicals Company, Jersey City, N. J. Filed Apr. 14, 1953.

FABRI-PEL

For Water Repellent Finishing Agent for Use on Textiles and Leather.
Claims use since Nov. 5, 1952.

CLASS 10

FERTILIZERS

Ser. No. 635,991. Allied Chemical & Dye Corporation, New York, N. Y. Filed Oct. 1, 1952.

URAN 32

For Nitrogen-Containing Solution, Suitable for Use as Fertilizer.
Claims use since Aug. 3, 1952.

Ser. No. 635,996. R. L. Carlisle Chemical & Manufacturing Company Inc., Brooklyn, N. Y. Filed Oct. 1, 1952.

Acripol

For Chemical Soil Conditioner.
Claims use since Aug. 1, 1952.

Ser. No. 645,703. European & Overseas Trading Company Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Filed Apr. 22, 1953.

EUCO

For Peat Moss for Horticultural Use as Fertilizer.
Claims use since January 1951; and first used in commerce between Germany and the United States in January 1951.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 638,033. Starline Inc., Harvard, Ill. Filed Oct. 29, 1952.
Applicant claims ownership of Registrations Nos. 200,639, 206,738, and others.

STARLINE

For Farm Barn Hardware—Namely, Curb Clamps, Alignment Devices for Aligning Cattle in Stalls, Livestock Automatic Drinking Bowls and Operating Nose Paddles Therefor, Cement Anchors, Gable Door and Hay Chute Door Tracks and Hangers, Up-and-Over Garage Door Hardware, Door Stops, Stay Rollers, Rust Shields for Stall Partitions, Stall Partition Sockets, Adjustable Arms for Stalls, Adjustable Arms for Special Width Stalls Attaching to Steel Columns, Rust-Proof Column Savers, Metal Plates Used To Partition a Manger Into Individual Feed Boxes, Manger Guard Rails, Neck Chains, Water Seal Drains, Milk Can Racks, Horse Stall Racks, Horse Stall Guards and Fixtures, California Type Milking Panels, Stanchions With and Without Lever Operating Devices, Pipe Line Strainers, Manger Drains, Bell Trap Drains, Partition Clamps, Offset Hinges, Door Hangers, Door Tracks, Chain Gates, and Hay Rack Clamps.
Claims use since 1931 in its present form; and since July 1896 in a different form.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 634,037. Fansteel Metallurgical Corporation, North Chicago, Ill. Filed Aug. 16, 1952.



For Tantalum, Tungsten, Molybdenum, and Columbium; Alloys of Tantalum, Tungsten, Molybdenum, and Columbium; Powder Metallurgy Compositions and Alloys of Refractory Metals, Precious Metals and Metallic and Nonmetallic Elements—Namely, Powder Metallurgy Composi-

tions and Alloys Containing Tungsten, Molybdenum, Silver, Copper, Gold, Platinum, Ruthenium, Iridium, Palladium, Cobalt, Cadmium, Nickel, Germanium, Iron, Carbon, and Tungsten Carbide.
Claims use since on or about October 1951.

CLASS 15

OILS AND GREASES

Ser. No. 581,900. Richfield Oil Corporation, Los Angeles, Calif. Filed July 13, 1949.

"YEARS AHEAD"

For Gasoline.
Claims use since Apr. 23, 1948.

Ser. No. 631,468. Chiksan Company, Houston, Tex. Filed June 20, 1952.

LO-TORK

For Tool Joint Compound—Namely, a Mixture of Powdered Lead, Powdered Graphite, Lubricating Oil, and Tacky Additive Used as Lubricant on the Threaded Ends of Joints of Drill Pipe Used in the Drilling of Oil Wells.
Claims use since May 29, 1952.

Ser. No. 635,662. Red Giant Oil Company, Council Bluffs, Iowa. Filed Sept. 23, 1952.



The figure is fanciful. That portion consisting of the figure is usually printed in red, but no particular color is claimed and the lining is intended to indicate shading only.
For Lubricating Oils and Greases.
Claims use since January 1926.

Ser. No. 645,388. The Brooks Oil Company, Cleveland, Ohio. Filed Apr. 16, 1953.

ROLLENE

For Petroleum Base Lubricant, Surface Conditioner and Coating Oil Used in the Manufacture of Steel.
Claims use since Jan. 29, 1953.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 630,150. Reichhold Chemicals, Inc., Detroit, Mich. Filed May 23, 1952.

HYDROPHEN

Applicant claims ownership of Registration No. 518,740.
For Synthetic Resin or Solution Thereof Used as a Base for Paints and Varnishes and in Coating Compositions for Water-Proofing Masonry and Curing Concrete.
Claims use since Mar. 15, 1948.

Ser. No. 634,891. Dupli-Color Products Co., Inc., Chicago, Ill. Filed Sept. 5, 1952.

KROME-FIX

No claim is made to the word "Krome" apart from the mark shown in the drawing.
For Protective Coating for Application to the Chrome Surfaces of Automobiles and the Like.
Claims use since July 30, 1952.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 634,482. Philipp Brothers Chemicals, Inc., New York, N. Y. Filed Aug. 26, 1952.



The drawing is lined for shading only.
For Sulfa Drugs.
Claims use since Apr. 17, 1947.

Ser. No. 635,429. Parke, Davis & Company, Detroit, Mich. Filed Sept. 18, 1952.

AMPHEDASE

For Medicinal Combination Containing a Diastatic Enzyme.
Claims use since Aug. 14, 1952.

Ser. No. 636,385. Schenley Laboratories, Inc., New York, N. Y. Filed Oct. 8, 1952.

EDIOL

For Oral Fat Emulsion.
Claims use since Aug. 26, 1952.

Ser. No. 640,068. Eli Lilly and Company, Indianapolis, Ind. Filed Dec. 27, 1952.

ILOTYCIN

For Medicinal Preparation of Erythromycin, an Antibiotic Used in the Treatment of Bacterial Infections.
Claims use since Nov. 3, 1952.

Ser. No. 640,963. Riker Laboratories, Inc., Los Angeles, Calif. Filed Jan. 19, 1953.

Rauwiloid

For Medicinal Tablets for Treatment of Hypertension.
Claims use since Oct. 28, 1952.

Ser. No. 642,898. Parke, Davis & Company, Detroit, Mich. Filed Feb. 27, 1953.

MIDICEL

For Chemotherapeutic Agent for Treatment of Infection.
Claims use since Feb. 2, 1953.

Ser. No. 644,209. American Home Products Corporation, New York, N. Y., doing business as Wyeth Laboratories, Division of American Home Products Corporation, Philadelphia, Pa. Filed Mar. 26, 1953.

AMEBAMAGMA

For Intestinal Parasiticide.
Claims use since Feb. 26, 1953.

Ser. No. 644,703. Winthrop-Stearns Inc., New York, N. Y. Filed Apr. 3, 1953.

EQUILITE

For Chemotherapeutic Preparation for the Treatment of Tuberculosis.
Claims use since Mar. 6, 1953.

Ser. No. 644,757. Irwin, Neisler & Company, Decatur, Ill. Filed Apr. 6, 1953.

UNITENSEN

For Tablets for the Relief of Hypertension.
Claims use since Feb. 6, 1953.

Ser. No. 645,273. The Upjohn Company, Kalamazoo, Mich. Filed Apr. 14, 1953.

Syrasulfas

Applicant claims ownership of Registration No. 436,656.
For Medicinal Preparation for the Treatment of Infectious Diseases.
Claims use since Jan. 16, 1953.

Ser. No. 645,447. The Viavi Company, San Francisco, Calif. Filed Apr. 16, 1953.



No claim is made to the word "Tablets" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 300,553, 378,493, and others.
For Preparation for the Relief of Functional Constipation Due to Lack of Bulk in the Diet.
Claims use since January 1952, as to the composite mark as shown; since June 3, 1890, as to "Viavi"; and since January 1952, as to "Vi-Phil."

Ser. No. 645,448. The Viavi Company, San Francisco, Calif. Filed Apr. 16, 1953.



Applicant claims ownership of Registrations Nos. 300,553, 378,493, and others.
For Dietary Supplement Comprised of Vitamins and Minerals.
Claims use since February 1951.

Ser. No. 645,528. Armour and Company, Chicago, Ill. Filed Apr. 20, 1953.

ADRENOMONE

For Veterinary Adrenocorticotropic Hormone Compositions.
Claims use since Oct. 18, 1952.

Ser. No. 645,735. Leopold Schlesinger, doing business as Leopold Cosmetics, New York, N. Y. Filed Apr. 22, 1953.

Miracelle

For Antiseptic and Medicated Cosmetic Cream, in Particular for the Prevention and Treatment of Athlete's Foot; Relief of Skin Irritations, Itchings, and Sunburn.
Claims use since March 1953.

Ser. No. 646,001. McKesson & Robbins, Incorporated, New York, N. Y., and Fairfield, Conn. Filed Apr. 27, 1953.

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For Preparation for the Relief of Stomach Disorders.
Claims use since Feb. 4, 1953.

Ser. No. 647,116. The Viavi Company, San Francisco and Belmont, Calif. Filed May 15, 1953.



Applicant claims ownership of Registrations Nos. 300,553, 378,493, and others.

For Rectal Suppositories; Cocoa Butter Capsules; a Preparation for Use in Massage in Stimulating Circulation and as a Dressing for Minor Burns, Skin Irritations, and Simple Skin Leisons; Bitters; a Stomachic Preparation Combined With Vitamins To Improve the Appetite and Aid Nutrition; Laxative Pellets for Use in Simple Constipation; Eye Liquid; Lubricative Laxative Emulsion; Vaginal Douche Powders; Vitamin B Complex; Vitamin Dietary Supplements; Vitamin B Complex With Liver; Laxative Preparation for Supplementing the Action of Natural Bile; Antacid Preparation for Temporary Relief of Heartburn, Sour Stomach, and Acid Indigestion; Nose Drops, Vaginal Tablets for the Relief of Minor Irritations of the Vaginal Tract; Vitamin and Mineral Dietary Supplement; and a Preparation for the Relief of Functional Constipation Due to Lack of Bulk in the Diet.

Claims use since 1888.

CLASS 19

VEHICLES

Ser. No. 628,716. The Raynal Cycle Company Limited, Birmingham, England. Filed Apr. 25, 1952.

Raynal

For Pedal Cycles and Motor Cycles and Parts of and Fittings Therefor.

Claims use since prior to 1937; and since September 1951, in commerce between foreign nations and the United States.

Ser. No. 635,082. The Cleveland Graphite Bronze Company, Cleveland, Ohio. Filed Sept. 10, 1952.

CLEVITE

Applicant claims ownership of Registration No. 310,954.

For Automotive Vehicle Chassis Parts—Namely, King Bolt Sets, Shackle Sets, Spring Bolt and Bushing Sets, Tie Rod and Tie Rod End Sets, Drag Link Sets and Drag Link End Sets, Wheel Suspension Parts Sets, Radius Rod Sets, and Knee-Action Coil Spring Sets.

Claims use since Aug. 2, 1938.

Ser. No. 636,912. Horex-Columbus-Werk K.-G. Fritz Kleemann, Bad Homburg, Germany. Filed Sept. 5, 1952.

HOREX

For Motorcycles.

Claims use since June 14, 1923, in Germany; and since Sept. 25, 1925, in commerce between foreign nations and the United States.

Ser. No. 637,326. Pinch Frame Body Company, Fresno, Calif. Filed Oct. 29, 1952.



For Vehicle Body Frame.

Claims use since Aug. 1, 1952.

Ser. No. 643,001. Statler Mfg. Co., Chicago, Ill. Filed Mar. 2, 1953.

JUNIOR

Applicant claims ownership of Registration No. 508,485.

For Children's Miniature Steering Wheel and Seat for Use in an Automobile.

Claims use since July 10, 1947.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 606,582. Waring Products Corporation, New York, N. Y. Filed Nov. 17, 1950. (Sec. 2f.)

BLENDOR

For Electrical Disintegrators and Mixers for Producing Fluid Substances From Solid Foods and Other Organic Matter and for Intermixing Fluids.

Claims use since May 18, 1939.

Ser. No. 612,584. Burndy Engineering Company, Inc., New York, N. Y. Filed Apr. 13, 1951.

INSULINK

Applicant claims ownership of Registration No. 552,851.

For Splice for Electrical Conductors.

Claims use since Oct. 1, 1950.

Ser. No. 620,330. V. G. Manufacturing Corp., Monrovia, Calif. Filed Oct. 22, 1951.



GAP

The word "Gap" and the pictorial representative of a spark plug are disclaimed apart from the mark as shown.

For Spark Plugs.

Claims use since June 1, 1950.

Ser. No. 628,604. Aerovox Corporation, New Bedford, Mass. Filed Apr. 24, 1952.

PA

For Printed Electric Circuit Assemblies for Electronic Equipment.

Claims use since Jan. 23, 1952.

Ser. No. 644,725. The William Brand and Co. Inc., Willimantic, Conn. Filed Apr. 6, 1953.

TURBONITE

Applicant claims ownership of Registrations Nos. 211,714, 241,485, and others.

For Electrical Insulations—Namely, Hard Paper Sheets for Phenolic Condensation Products.

Claims use since July 1923.

Ser. No. 644,726. The William Brand and Co. Inc., Willimantic, Conn. Filed Apr. 6, 1953.

TURBOLEX

Applicant claims ownership of Registrations Nos. 211,714, 241,485, and others.

For Insulation—Namely, Plastic Insulating Tubing To Cover Insulating Material Intended for Electrical Insulation.

Claims use since July 1951.

Ser. No. 644,727. The William Brand and Co. Inc., Willimantic, Conn. Filed Apr. 6, 1953.

TURBOZONE

Applicant claims ownership of Registrations Nos. 211,714, 241,485, and others.

For Insulation—Namely, Plastic Insulating Tubing To Cover Insulating Material Intended for Electrical Insulation.

Claims use since July 1951.

Ser. No. 644,728. The William Brand and Co. Inc., Willimantic, Conn. Filed Apr. 6, 1953.

TURBOTHERM

Applicant claims ownership of Registrations Nos. 211,714, 241,485, and others.

For Electrical Insulations—Namely, Plastic Insulating Tubing and Insulating Material for Electrical Wires and Plastic Insulated Electrical Wires.

Claims use since October 1946.

Ser. No. 644,729. The William Brand and Co. Inc., Willimantic, Conn. Filed Apr. 6, 1953.

TURBOTRANS

Applicant claims ownership of Registrations Nos. 211,714, 241,485, and others.

For Electrical Insulations—Namely, Plastic Insulating Tubing and Insulating Material for Electrical Wires and Plastic Insulated Electrical Wires.

Claims use since February 1948.

Ser. No. 644,730. The William Brand and Co. Inc., Willimantic, Conn. Filed Apr. 6, 1953.

TURBOGLAS

Applicant claims ownership of Registrations Nos. 211,714, 241,485, and others.

For Insulating Materials for Electrical Insulation in the Form of Fibrous Glass Braid Coated With Insulating Varnishes or Lacquers.

Claims use since August 1951.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 605,409. Collegiate Manufacturing Company, Inc., Ames, Iowa. Filed Oct. 25, 1950.

CHEER-UP

For Stuffed Dog Featuring School Letters and Initials, Etc., Which Are Attached to an Ear of the Dog, Sold as a Novelty.

Claims use since Feb. 7, 1950.

Ser. No. 632,153. Childcraft Equipment Company, New York, N. Y. Filed July 5, 1952.

childcraft



For Playground Equipment—Namely, Climbing Houses and Ladders, Climbing Net, Ladders, Tumbling and Gymnasium Mats, Ladder Box, Walking and Balance Boards, Rocking Boats, Rock and Row Boats, Nesting Bridges, Kegs, Climbing Fences, Saw Horses, Portable Turning

Bars, Swinging Gates, Hollow Blocks, Slides, Swings, and Sand Boxes and Tables; Sets of Various Shaped Molds for Sand Play, Children's Sand Tools—Namely, Shovels, Pails, Cans, and Carts: Metal Toy Trucks, Dump Trucks, Scrapers, Steam Shovels, Excavators; Sporting Goods—Namely, Rubber Balls of All Types, Baseballs, Softballs, Baseball Bats, Punching Bags, Boxing Gloves, Bat Tennis and Table Tennis Balls, Bats, Nets, and Tables, Quoit Sets; Card Games, Board Games With Moving Pieces, Simulated Athletic Games, Word and Sentence Building Games, Checkers; Toy Chemistry Sets; Wood and Metal Toy Construction Sets; Toy Building Blocks of All Types and Shapes, Wooden Trains, Train Signals, Boats, Airplanes, Autos, Jig-Saw and Picture Puzzles, Racks for the Storing of Puzzles; Children's Tricycles, Wagons, Wheelbarrows, Push Trucks, Locomotives, and Trucks; Wood and Rubber Toy Figures of Vehicles, People, and Animals; Dolls, Toy Hand Puppets, Doll Carriages, Doll Furniture—Namely, Beds, Cradles, Dressers, Rockers, Chest of Drawers, Dolls' Bottle Sterilizing Kits; Toy Tables, Kitchen Utensils, Dishes, Stoves, Sinks, Cabinets, Refrigerator, Ironing Boards, Iron, Baskets, Cleaning Tools, Laundry Appliances; Play Stores and Equipment—Namely, Cash Registers, Telephones, Switchboards, Scales, Change Makers, Rubber Fruits and Vegetables, Carts, Milk Bottles, Barber Shop Equipment, Play Money; Toy Blackboards, Children's Looms, Gear Models To Be Used as Toys, Children's Microscope Sets.

Claims use since September 1949.

Ser. No. 650,657. The United States Playing Card Company, Cincinnati, Ohio. Filed July 22, 1953. (Sec. 2f.)

AMERICAN PLAYING CARD COMPANY

Applicant disclaims the exclusive right to the use of the words "Playing Card" per se. Applicant claims ownership of Registration No. 311,804.

For Playing Cards.

Claims use since 1919.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 615,926. Chain Belt Company, Milwaukee, Wis. Filed June 30, 1951.

SKIPPER

For Mixing and Agitating Apparatus for Concrete, Mortar, Chocolate, Dough, Glass, Foundry Sand, Soap, and the Like.

Claims use since Oct. 13, 1950.

Ser. No. 618,804. Koebel Diamond Tool Co., Detroit, Mich. Filed Sept. 14, 1951.

Rib-Kut

No claim is made to the exclusive use of the word "Kut" apart from the mark shown.

For Diamond Carrying Cutting Tools and Diamond Carrying Core Bits.

Claims use since May 28, 1951.

Ser. No. 628,767. Lincoln Engineering Company, St. Louis, Mo. Filed Apr. 26, 1952.

MULTI-LUBER

For Lubricant Injection Apparatus Comprising an Injector for Feeding Lubricant.

Claims use since Apr. 11, 1952.

Ser. No. 636,077. Alfred Herbert Limited, Foleshill, Coventry, England. Filed Oct. 2, 1952.

PREOPTIVE

Applicant claims ownership of British Registration No. 529,007, dated Jan. 30, 1932.

For Lathes, Milling Machines, and Drilling Machines.

Ser. No. 637,702. Coventry Ware, Inc., Barberton, Ohio. Filed Nov. 6, 1952.

ZULU-LULU

For Swizzle Sticks.

Claims use since June 10, 1952.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 626,508. G. M. Gibson Corporation, Bellevue, Iowa. Filed Mar. 15, 1952.

LAUN-DRYER

Exclusive use of the word "Dryer" is disclaimed apart from the mark shown.

For Ironing Machines, Clothes Washing Machines, and Clothes Driers.

Claims use since Feb. 27, 1952.

Ser. No. 645,382. Naxon Utilities Corporation, Chicago, Ill. Filed Apr. 15, 1953.

DAINTYDUDS

For Electric Wringers, Hand-Operated Wringers, and Electric Washing Machines.

Claims use since Jan. 15, 1953.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 626,211. Mefco Sales and Service Corp., Glendale, Calif. Filed Mar. 10, 1952.

HYDRA-SET

For Hydraulically Operated Combined Load-Lowering and Weighing Attachment for Hoists.

Claims use since Oct. 18, 1951.

Ser. No. 631,834. The Wheel-A-Matic Company of America, Inc., Franklin, N. H. Filed June 26, 1952.

WHEEL-A-MATIC

Applicant disclaims exclusive appropriation of the words "Wheel," "America," and "Trade-Mark," and the representation of the tire and wheel shown on the drawing, apart from the mark as shown.

For Machines for Testing Caster, Camber, Toe-In, and Degree of Turning Radius of Automotive Vehicle Front Wheels.

Claims use since Apr. 10, 1952.

Ser. No. 635,351. Newhall Douglas, Hohokus, N. J. Filed Sept. 17, 1952.

TECHNIMOTION

For Photographic Films for an Electrically Controlled Picture Projection Apparatus.

Claims use since Oct. 16, 1951.

Ser. No. 635,803. American Association of Textile Chemists and Colorists, Lowell, Mass. Filed Sept. 26, 1952.

ACCELEROTOR

For Laboratory Testing Apparatus for Accelerated Wear Testing of Fabrics and Other Flexible Materials for Aid in Determining Wear Resistance, Color Fastness, Strength, Shrinkage, and the Like.

Claims use since Nov. 18, 1950.

Ser. No. 637,376. Hollywood Television Service, Inc., North Hollywood, Calif. Filed Oct. 30, 1952.



No claim is made to the words "Hollywood," "Television," and "Service Inc." except as the same are used in connection with the other features of the mark.

For Motion Pictures.

Claims use since Aug. 27, 1951.

Ser. No. 642,233. The Lufkin Rule Company, Saginaw, Mich. Filed Feb. 13, 1953. (Sec. 2f.)

CHROME FACE

Applicant claims ownership of Registration No. 391,333.

For Tape Measures.

Claims use since Jan. 11, 1940.

Ser. No. 642,543. John Warren Gillon, doing business under the name Gillon Products, San Mateo, Calif. Filed Feb. 20, 1953.

Golfscope

The lining on the letters is an integral part of the mark and has no color significance.

For Stadimeters.

Claims use since Oct. 27, 1952.

Ser. No. 642,655. Infilco Incorporated, Tucson, Ariz. Filed Feb. 24, 1953.

NEUSOL

For Precision Chemical Feeders for Feeding Measured Quantities of Liquid Chemicals, and Parts Thereof.

Claims use since Aug. 10, 1949.

Ser. No. 644,276. Bausch & Lomb Optical Company, Rochester, N. Y. Filed Mar. 27, 1953.

BL

Applicant claims ownership of Registrations Nos. 251,463, 354,005, and 542,359.

For Goggles and Parts Thereof.

Claims use since September 1945.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 633,361. Hannifin Corporation, Chicago, Ill. Filed Aug. 1, 1952.

HANNIFIN

For Air Line Filters.

Claims use since in the year 1948.

Ser. No. 641,381. Johnson & Johnson, New Brunswick, N. J. Filed Jan. 27, 1953.

J & J

Applicant claims ownership of Registrations Nos. 521,309, 529,111, and 554,342.
For Filter Disks, Rolls, and Strips.
Claims use since April 1886.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 633,826. American Instrument Company, Inc., Silver Spring, Md. Filed Aug. 13, 1952.

AMINCO-AIRE

The word "Aire" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 350,227 and 414,036.
For Temperature and Humidity-Controlled Cabinets in Which Different Atmospheric Conditions Can Be Reproduced.
Claims use since Jan. 10, 1952.

Ser. No. 641,314. Master Appliance Mfg. Co., Racine, Wis. Filed Jan. 26, 1953.

Plasturbo

For Blower Wheels Formed From Molded Plastic for Use in Moving Air in Various Appliances Such as Hair Dryers.
Claims use since July 14, 1950.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 641,443. Electric & Musical Industries Limited, Hayes, England. Filed Jan. 28, 1953.

Emidisc

Applicant claims ownership of British Registration No. 645,252, dated Feb. 26, 1946, and United States Registration No. 569,348.
For Grooved Phonograph Records and Record Blanks.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 640,771. American Farm Bureau Federation, Chicago, Ill. Filed Jan. 15, 1953. COLLECTIVE MARK.



No claim is made to the outline map of the United States, apart from the mark as shown.
For Periodicals Published Weekly, Monthly, or From Time to Time.
Claims use since at least as early as the year 1921.

Ser. No. 641,179. The Evangelical Methodist Church, Altoona, Pa. Filed Jan. 23, 1953. (Sec. 2f.)

The Evangelical Methodist

For Religious Publications Published Periodically.
Claims use since May 1, 1945.

Ser. No. 642,251. Koodin-Lapow Associates, New York, N. Y. Filed Feb. 9, 1953.

packaging pulse

The descriptive term "Packaging" is hereby disclaimed separately from the entire mark shown in the drawing.
For News Letter or House Organ Published Periodically.
Claims use since Oct. 17, 1952.

Ser. No. 643,897. Dell Publishing Company, Inc., New York, N. Y. Filed Mar 19, 1953. (Sec. 2f.)

Modern Romances

Applicant claims ownership of Registration No. 295,391.
For Magazine Published Monthly.
Claims use since Dec. 11, 1930.

Ser. No. 643,973. Oakes Consumer Catalogs, Chicago, Ill. Filed Mar. 20, 1953.

Good Fishin'

The word "Fishin'" is disclaimed apart from the mark as shown in the drawing.
For Fishing Tackle Catalogue Published Annually.
Claims use since Oct. 20, 1952.

Ser. No. 644,064. The Register and Tribune Company, Des Moines, Iowa. Filed Mar. 23, 1953.

[redacted]

The words "Mail Order" appearing in the mark are disclaimed apart from the mark.
For Newspaper and Magazine Feature.
Claims use since Jan. 5, 1953.

Ser. No. 644,534. Atlantis, Inc., New York, N. Y. Filed Apr. 1, 1953.

ΑΤΛΑΝΤΙΣ

The drawing is lined for red. The words "Monthly Illustrated" are disclaimed apart from the mark as shown in the drawing. The white print lettering on the upper red band consists of two words in the Greek language which translated into English means "Monthly Illustrated." The black print lettering on the white field is also in the Greek language which consists of the name "Atlantis." Applicant claims ownership of Registrations Nos. 29,904 and 399,326.
For Illustrated Magazine.
Claims use since Oct. 27, 1952.

Ser. No. 645,744. Supplee-Biddle-Steits Company, Philadelphia, Pa. Filed Apr. 22, 1953.

Santa's WONDERLAND

The word "Santa's" is disclaimed.
For Catalogues Published Annually.
Claims use since Nov. 1, 1952.

CLASS 39

CLOTHING

Ser. No. 558,915. Oshkosh B'Gosh, Inc., Oshkosh, Wis. Filed June 10, 1948.



The mark consists of an inverted isosceles triangle, white in color, having a base approximately equal to its altitude superimposed upon the darker background of the overall material itself at a point immediately below the apex formed at the juncture of the two suspender straps at the back of the overall, the background material usually being blue. No exclusive right in the portion of the overall displayed in the drawing is claimed apart from the mark as shown.
For Overalls.
Claims use since December 1925.

Ser. No. 594,066. Rutgers Coat Co., Inc., New Brunswick, N. J. Filed Mar. 16, 1950.

"SIMPUL HEM"

Apart from the mark shown on the drawing, the word "Hem" is disclaimed.
For Boys' Coats.
Claims use since Jan. 3, 1950.

Ser. No. 629,146. Bear Brand Hosiery Co., Chicago, Ill. Filed May 3, 1952.

SAMSON

For Men's Hosiery.
Claims use since Dec. 12, 1951.

Ser. No. 633,297. Beverly Vogue Company, Los Angeles, Calif. Filed July 31, 1952.

PANTI-Q

The term "Panti" is disclaimed apart from the mark as shown in the drawing.
For Garter Panties.
Claims use since July 17, 1951.

Ser. No. 634,512. Airmaid Hosiery Mills, Dallas, Tex. Filed Aug. 27, 1952.

AIRMAID SEAM GUIDE

The words "Seam Guide" are disclaimed apart from the mark as a whole. Applicant claims ownership of Registration No. 287,851.
For Women's Hosiery.
Claims use since Aug. 6, 1952.

Ser. No. 635,659. Lewis Moreines, doing business as Lyon Distributors, Rockaway Beach, N. Y. Filed Sept. 23, 1952.

Shirl-Lee

For Ladies' Hosiery.
Claims use since Sept. 11, 1952.

Ser. No. 637,556. Ira A. Watson Co., Knoxville, Tenn. Filed Nov. 3, 1952.

Nyla Maid

For Women's Hosiery.
Claims use since Sept. 15, 1952.

Ser. No. 637,910. Brevitt Shoes Limited, Leicester, England. Filed Nov. 12, 1952.

MIDDIES

Priority under Sec. 44(d): British application filed Sept. 25, 1952, Reg. No. 710,862 dated Sept. 25, 1952.
For Boots, Shoes, and Slippers for Men, Women, or Children.
Claims use since Oct. 17, 1952; and use in commerce between foreign nations and the United States since Oct. 17, 1952.

Ser. No. 638,424. J. W. Landenberger & Co. Inc., Philadelphia, Pa., assignor to Aberfoyle Manufacturing Company, Philadelphia, Pa. Filed Nov. 21, 1952.

'Spun Ny Foyle'

The word "Spun" is disclaimed apart from the mark as shown.
For Hosiery for Men, Women, Boys, and Girls.
Claims use since Feb. 11, 1952.

Ser. No. 639,976. Airmaid Hosiery Mills, Dallas, Tex. Filed Dec. 24, 1952.



The word "Hosiery" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 287,851.
For Women's Hosiery.
Claims use since Dec. 27, 1930; and since July 8, 1948, in its present form.

Ser. No. 640,426. Ballston-Stillwater Knitting Company, Inc., Ballston Spa, N. Y. Filed Jan. 7, 1953.



The words "America's Best Known and Finest Work Sock" are disclaimed apart from the mark as shown.
For Men's Hosiery and More Particularly Socks of Cotton, Wool, and Mixtures Thereof; Wool and Wool Mixed Hunting Socks, and Athletic Socks.
Claims use since February 1952.

Ser. No. 642,061. Ballston-Stillwater Knitting Company, Inc., Ballston Spa, N. Y. Filed Feb. 11, 1953. (Sec. 2f.)



For Men's Hosiery.
Claims use since 1918.

Ser. No. 642,308. Sand Knitting Mills Co., Chicago, Ill., assignor to Sand Knitting Mills Corporation, Berlin, Wis., a corporation of Wisconsin. Filed Feb. 16, 1953.

RIBETT

For Football, Wrestling, and Basket Ball Pants; and Wrestling and Skating Tights.
Claims use since May 16, 1952.

Ser. No. 643,073. Brownie Knitting Mills, New York, N. Y. Filed Mar. 4, 1953.

KARA-LON

For Knitted Sweaters for Women and Misses.
Claims use since Dec. 1, 1952.

Ser. No. 643,165. The Kendall Company, Boston, Mass. Filed Mar. 5, 1953.

Miss Curity

Applicant claims ownership of Registrations Nos. 103,242, 284,697, and others.
For Children's Play Nurse Uniforms.
Claims use since Feb. 19, 1953.

Ser. No. 645,607. Triumph Hosiery Mills, Inc., New York, N. Y. Filed Apr. 20, 1953.

DANSKIN

For Women's Hosiery and Stockings, and for Opera Hose and Stockings and Opera Tights.
Claims use since Feb. 20, 1953.

Ser. No. 645,809. Malcom Kenneth Co., Boston, Mass. Filed Apr. 23, 1953.

Glenburnie

For Men's Topcoats, Overcoats, Sport Coats, Suits, Work and Armed Service Uniforms, and Women's Coats.
Claims use since January 1952.

Ser. No. 645,834. Rootie Kazootie, Inc., New York, N. Y. Filed Apr. 23, 1953.

Polka Dottie

For Children's Dresses.
Claims use since Nov. 20, 1952.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 636,394. E. E. Weller Co., Providence, R. I. Filed Oct. 8, 1952.

STUDETTE

For Shoe Buckles of Non-Precious Metal.
Claims use since Oct. 2, 1952.

Ser. No. 643,929. Bernhard Ulmann Co. Inc., Long Island City, N. Y. Filed Mar. 19, 1953.

PICTURAMA

For Art Needlework Picture Kits Consisting of Stamped Fabric and Trimmings To Be Used by the Customer in Completing Pictures.
Claims use since Feb. 24, 1953.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 630,124. Continental Mills, Inc., Philadelphia, Pa. Filed May 23, 1952. (Sec. 2f.)

ZEPHYRDOWN

For Knitted and Woven Fabrics Made of Wool, Silk, Cotton, Synthetic Fibers, or Any Combination Thereof, Sold in the Piece.
Claims use since on or about Feb. 26, 1930.

Ser. No. 631,325. J. P. Stevens & Co., Inc., New York, N. Y. Filed June 17, 1952.

ONEIDA

For Sheets and Pillow Cases.
Claims use since Jan. 19, 1866.

Ser. No. 634,566. American Woolen Company, New York, N. Y. Filed Aug. 28, 1952.

AMERON

Applicant claims ownership of Registrations Nos. 511,055 and 574,756.
For Textile Fabric Composed of Wool and Synthetic Fiber Sold in the Piece for Making Into Garments.
Claims use since Aug. 20, 1952.

Ser. No. 637,336. Wm. Simpson, Sons & Co., Inc., Philadelphia, Pa. Filed Oct. 29, 1952.

TWINTONE

For Print Cloth of Cotton.
Claims use since July 19, 1952.

Ser. No. 637,834. Manufactures de Senones (Vosges) Société à Responsabilité Limitée, Paris, France. Filed Nov. 8, 1952.

TRIOMPH' ANTIFROISS

Priority under Sec. 44(d). French application filed June 27, 1952, Reg. No. 511,741, dated June 27, 1952.
For Textile Fabrics in the Piece Made of Wool, Silk, Cotton, Rayon, Linen, and Nylon.

Ser. No. 638,884. United States Rubber Company, New York, N. Y. Filed Dec. 2, 1952.

SHANTONE

For Textile Fabrics in the Piece of Cotton and/or Synthetic Fibers.
Claims use since Oct. 22, 1952.

Ser. No. 641,424. Automotive Materials Corporation, Detroit, Mich. Filed Jan. 28, 1953.

AMCOR

For Vehicle Body Textile Trimming Fabrics—Namely, Corduroy, Velours, Head Linings, and Curtain, Trimming, and Upholstery Fabrics, All in the Piece and Made of Cotton, Wool, and Synthetic Fibres, and of Plastic Yarn.
Claims use since May 26, 1927.

Ser. No. 643,754. Beacon Manufacturing Company, Swannanoa, N. C. Filed Mar. 17, 1953.

Alaskan

Applicant claims ownership of Registration No. 209,981.
For Blankets Made of Cotton, Wool, or Synthetic Fibers or Combinations Thereof.
Claims use since Jan. 7, 1925.

Ser. No. 647,388. Alexander J. Balter, Pittsburgh, Pa. Filed May 21, 1953.

HEIRLOOM RUGS

The word "Rugs" is disclaimed apart from the mark as shown, and the representation of a person is fanciful.
For Textile Rugs.
Claims use since May 18, 1953.

Ser. No. 647,389. Barbet Mills, Inc., Gastonia, N. C. Filed May 21, 1953.

Rosspun

Applicant claims ownership of Registration No. 521,354.
For Knitted Fabrics in the Piece Made of Cotton, Synthetic Fibres, and Combinations Thereof.
Claims use since Jan. 15, 1948.

Ser. No. 647,518. Oberman Fabrics, Inc., New York, N. Y. Filed May 22, 1953.

"A COLORBORN FABRIC"

Applicant disclaims exclusive right to the words "A" and "Fabric" apart from the mark as shown.
For Piece Goods of Silk, Rayon, Cotton, Synthetic Fibers, and Mixtures Thereof.
Claims use since on or about Mar. 31, 1953.

CLASS 43

THREAD AND YARN

Ser. No. 645,390. Chadbourn Hosiery Mills, Incorporated, Charlotte, N. C. Filed Apr. 16, 1953.



Applicant disclaims the exclusive right to use the words "Quality" and "Yarns" and the representation of the yarn apart from the mark as shown in the drawing.
For Thrown Yarn.
Claims use since Apr. 10, 1953.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL

Ser. No. 591,920. S. & R. J. Everett Co. Ltd., Surrey, England. Filed Feb. 3, 1950.

Laminex

Applicant claims ownership of British Registration No. 625,081.
For Hypodermic Needles, Hypodermic Tubing, and Dental Broaches.
Claims use since Sept. 30, 1947; and since Sept. 30, 1947, in commerce among the several States of the United States.

Ser. No. 634,220. Société à Responsabilité Limitée: Porgès, Sarlat (Dordogne) and Paris, France. Filed Aug. 20, 1952.

NEOPLEX

Applicant claims ownership of French Registration No. 451,394, dated Dec. 17, 1948.
For Medical and Surgical Instruments Made of Rubber or Plastic Material—Namely, Catheters, Bougies, and Tubes.

Ser. No. 646,843. Ayerst, McKenna & Harrison Limited, New York, N. Y. Filed May 12, 1953.

NAPRO

For Inhaler for Use With Anesthetics.
Claims use since Apr. 3, 1953.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 595,471. Reimann Industries, Inc., Minneapolis, Minn. Filed Apr. 8, 1950.



The trade-mark consists in the word "Tot" with a boy's face being formed within the "o" thereof.
For Nonalcoholic Maltless Beverages Sold as Soft Drinks and Bases, Concentrates, Syrups, and Extracts for Making Same.
Claims use since Apr. 1, 1950.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 615,245. "Pilotlab," Evans City, Pa. Filed June 15, 1951.

"PEPOGEN CAPSO-LETTES"

No claim is made to the word "Capso-Lettes" appearing on the drawing apart from the mark shown.
For Spices.
Claims use since Feb. 10, 1951.

Ser. No. 635,408. Cris-Krisp Company, Oswego, N. Y. Filed Sept. 18, 1952.

CRISPINIZED

For Lettuce.
Claims use since May 20, 1952.

Ser. No. 637,773. L. S. Heath & Sons, Inc., Robinson, Ill. Filed Nov. 7, 1952. (Sec. 2f as to "Heath.")

HEATH English Toffee CHIPS

No claim is made to the words "English Toffee Chips." Applicant claims ownership of Registrations Nos. 319,967, 389,755, and others.
For Candy.
Claims use since Sept. 24, 1952; and since Mar. 1, 1922, as to "Heath."

Ser. No. 639,526. Sunway Fruit Products, Chicago, Ill. Filed Dec. 15, 1952.

Freshie

For Ice Milk and Ice Cream Mixes.
Claims use since July 10, 1952.

Ser. No. 642,481. Adolph Levis, trading as Cherry-Levis Food Products Company, Philadelphia, Pa. Filed Feb. 19, 1953. (Sec. 2f.)

PENROSE



For Polish Sausage and Hot Sausage.
Claims use since Nov. 1, 1946.

Ser. No. 642,920. Adolph Levis, trading as Cherry-Levis Food Products Company, Philadelphia, Pa. Filed Feb. 19, 1953. (Sec. 2f.)

PENROSE



For Lamb Tongues.
Claims use since Nov. 1, 1946.

Ser. No. 642,921. Adolph Levis, trading as Cherry-Levis Food Products Company, Philadelphia, Pa. Filed Feb. 19, 1953. (Sec. 2f.)

PENROSE

For Hot Sausage, Pigs Feet, Pigs Knuckles.
Claims use since Nov. 1, 1946.

Ser. No. 648,720. Clarence A. Beatty, doing business under the name The Chicken Pickers, San Francisco, Calif. Filed June 15, 1953.

"WILLIE" THE WESTERN WOOSTER

For Prepared Meals Consisting of Fried Chicken, Soup, Salad, Mashed Potatoes, Biscuits, and Dessert.
Claims use since Nov. 15, 1952.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 636,259. Stitzel-Weller Distillery, Louisville, Ky. Filed Oct. 6, 1952. (Sec. 2f.)

Old W. L. Weller 1849

The name "W. L. Weller" is that of one of the founders of the applicant company and now deceased. Applicant claims ownership of Registrations Nos. 310,529, 327,363, 410,008, and 553,765.
For Whiskies.
Claims use since June 30, 1942.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 612,754. Paul D. Newton & Co. Inc., Newark, N. Y. Filed Apr. 17, 1951.

Peggy Newton

"Peggy Newton" is the popular name of "Margaret Scribner Newton." Consent is of record.
For Cosmetics—Namely, Throat Cream, Eye Cream, Dry Skin Cream, Hand Cream, Normal Skin Cleanser, Oily Skin Cleanser, Skin Lotion, Skin Freshener, Personal Deodorant in Cream and Liquid Form, Talcum Powder, Face Powder, Make-Up Film, Complexion Film, Nail Polish, Nail Polish Base Coat, Nail Polish Remover in Liquid Form, Lipstick, Rouge, Perfume, and Cologne.
Claims use since April 1941.

Ser. No. 642,421. Revlon Products Corporation, New York, N. Y. Filed Feb. 18, 1953.

'LOVE-PAT'

The word "Pat" is disclaimed apart from the mark as shown.
For Pressed Powder Make-Up.
Claims use since Feb. 3, 1953.

Ser. No. 642,865. Simon Bly, Jr., New York, N. Y. Filed Feb. 27, 1953.

CAPS U-DENT PASTE

No claim is made to the words "Caps" and "Paste" and to the representation of the toothbrushes and capsules apart from the mark shown on the drawing.
For Dentifrice-Containing Capsules.
Claims use since August 1952.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 618,915. Charles F. J. Dupuy, doing business under the trade-name Beautergent Products, Allendale, N. J. Filed Sept. 18, 1951.

BEAUTERGENT

For Sponge Having a Pouch Therein Containing a Detergent in Cake Form, and Used for Cleansing or Bathing the Face and Body.
Claims use since Sept. 15, 1950.

Ser. No. 626,364. Beaver Home Products Company, Inc., Camden, N. J. Filed Mar. 13, 1952.

"START" ...stops dirt!

The notation ". . . Stops Dirt!" is disclaimed apart from the mark as shown on the drawing.
For Soap.
Claims use since Sept. 10, 1951.

Ser. No. 626,653. The Buckeye Soda Company, Painesville, Ohio. Filed Mar. 19, 1952.

Mat-o-Wash

The word "Wash" is disclaimed apart from the mark as shown.
For Controlled Suds Washing Compound Especially for Washing Textiles in Automatic Washing Machines.
Claims use since Mar. 3, 1952.

Ser. No. 638,985. Ultra Chemical Works Inc., Paterson, N. J. Filed Dec. 4, 1952.

SULFRAMIN AB

Applicant claims ownership of Registration No. 384,258.
For Detergents and Ingredients Thereof.
Claims use since Mar. 28, 1947.

Ser. No. 639,486. James A. McQuilkin, doing business as Bon Bon Chemical Co., Philadelphia, Pa. Filed Dec. 15, 1952.

Dobotonne

For Soap.
Claims use since Nov. 7, 1952.

Ser. No. 639,756. Hysan Products Company, Chicago, Ill. Filed Dec. 19, 1952.

HyZax

Applicant claims ownership of Registration No. 554,784.
For Toilet Bowl Sanitizer—Namely, a Preparation Which Cleans, Disinfects, Deodorizes, and De-Scales Toilet Bowls.
Claims use since July 23, 1952.

Ser. No. 640,153. Fabergé, Inc., New York, N. Y. Filed Dec. 30, 1952.

WOODHUE

Applicant claims ownership of Registration No. 339,773.
For Soap.
Claims use since September 1951.

SERVICE MARKS

CLASS 106

MATERIAL TREATMENT

Ser. No. 623,505. Electro-Lab Processes, Inc., Cincinnati, Ohio. Filed Jan. 12, 1952.

ETERNALLOY

For Electroplating New and Re-Electroplating Used Tips of Electrically Heated Welding and Soldering Devices.
Claims use since Sept. 27, 1951.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 643,972. New York Herald Tribune Inc., New York, N. Y. Filed Mar. 20, 1953.

THE WORLD WE WANT

For Informational Service Rendered Through the Medium of a Radio and Television Program Consisting of Youth Forum Discussions.
Claims use since Mar. 3, 1946.

TRADE-MARK REGISTRATIONS GRANTED
ACT OF 1946, PRINCIPAL REGISTER

580,884. Razor Strops. E. Morris Manufacturing Company, Detroit, Mich.
Original filed, act of 1905, Nov. 13, 1946; amended to application under act of 1946, Principal Register, Dec. 23, 1949, Serial No. 512,521. Published July 7, 1953. Class 4.

580,885. Key and Gang Punches; Manually or Power Operated Numbering, Slotting, Punching Machines, Trimmers, Dies, Master Plates for Punching or Slotting Machines; Combination Slotting, Punching, or Numbering Machines. The McBee Company, Athens, Ohio.
Filed Dec. 6, 1947, Serial No. 543,619. Published May 5, 1953. Class 23.

580,886. Screws, Washers, Rivets, Rivet Crowns, Nails, Posts and Screws, Handles for Doors and Drawers, Glides for Furniture, Etc. Edwin B. Stimpson Company, Inc., Brooklyn, N. Y.
Filed Mar. 6, 1948, Serial No. 551,415. Published July 14, 1953. Class 13.

580,887. Women's and Children's Dresses. Cadillac Dress Corp., New York, N. Y.
Filed Nov. 13, 1948, Serial No. 568,712. Published July 29, 1953. Class 39.

580,888. Eye Drops, Laxative Compounds, Stomachic Appetizers, and Liniments. Miguel A. Romero, Sr., doing business as Santa Rita Medicine Co., Las Vegas, N. Mex.
Filed Jan. 14, 1949, Serial No. 572,209. Published May 6, 1952. Class 18.

580,889. Adjustable Mechanical Seal for Maintaining a Seal Between a Rotatable Member and Its Bearing by Means of Liquid Under Pressure. Monogram Manufacturing Company, Los Angeles and West Los Angeles, Calif., assignor, by mesne assignments, to Houston-Fearless Corporation, Los Angeles, Calif., a corporation of California.
Filed Feb. 19, 1949, Serial No. 574,153. Published July 21, 1953. Class 35.

580,890. Glass Specimen Tube. Becton Dickinson and Company, Rutherford and East Rutherford, N. J.
Filed Apr. 21, 1949, Serial No. 577,472. Published June 9, 1953. Class 33.

580,891. Canned Vegetables, Canned Mushrooms, Canned Prepared Spaghetti, Pork and Beans, Etc. National Retailer-Owned Grocers, Inc., Chicago, Ill.
Filed Aug. 27, 1949, Serial No. 584,146. Published June 16, 1953. Class 46.

580,892. White Wheat Flour for Cake or Bread. The Northwestern Elevator & Mill Co., Mount Vernon and Toledo, Ohio.
Filed Nov. 28, 1949, Serial No. 588,449. Published July 7, 1953. Class 46.

580,893. Weather Strip. W. J. Dennis & Company, Chicago, Ill.
Filed Dec. 31, 1949, Serial No. 590,866. Published July 14, 1953. Class 12.

580,894. Buffing Wheels, Both Single and as Assembled Into Units. Automatic Buff Company, Chicago, Ill.
Filed Feb. 9, 1950, Serial No. 592,184. Published July 21, 1953. Class 4.

580,895. Transferable Non-Self-Propelled Cargo Containers Adapted To Be Mounted on Trailer Trucks, Railway Flatcars, and Other Conveyances. Transit Van Corporation, Redwood City, Calif.
Filed Mar. 27, 1950, Serial No. 594,734. Published July 14, 1953. Class 19.

580,896. Lime for Building and Construction Purposes, Cement, Plaster, Etc. Imperial Chemical Industries Limited, London and Millbank, London, England.
Filed Mar. 28, 1950, Serial No. 594,781. Published July 14, 1953. Class 12.

580,897. Chemical Cleanser for Copper, Stainless Steel, Chrome, Brass, Enamel Ware, Tile, and Porcelain. The Reaction Products Co., Richmond, Calif.
Filed June 9, 1950, Serial No. 598,865. Published July 21, 1953. Class 52.

580,898. Packless Expansion Joints for Pipe Lines. American District Steam Company, North Tonawanda, N. Y.
Filed June 20, 1950, Serial No. 599,409. Published July 21, 1953. Class 13.

580,899. Temperature-Controlled Valves, Self-Operated by Bellows, or Diaphragm Operated, Etc. Leslie Co., Lyndhurst, N. J.
Filed July 12, 1950, Serial No. 600,543. Published May 5, 1953. Class 26.

580,900. Cleansing Cream, Cleansing Lotion, Dry Complexion Cream, Etc. The House of Stuart, Incorporated, Newark, N. Y.
Filed Oct. 17, 1950, Serial No. 605,033. Published July 21, 1953. Class 51.

580,901. Clothing for Men—Namely, Undershirts, Hosiery, Outer Shirts, Etc. Engel Mills, New York, N. Y.
Filed Oct. 19, 1950, Serial No. 605,150. Published June 30, 1953. Class 39.

580,902. Antiseptic Foot Powder. The House of Stuart, Incorporated, Newark, N. Y.
Filed Oct. 21, 1950, Serial No. 605,258. Published July 7, 1953. Class 18.

580,903. Resurfacing Material, Comprising an Asbestos and Mica Mixture in Liquid Form Used To Insulate, Etc. Re-Nu-It Corporation, New York, N. Y., assignor to Nu-Side Corporation, New York, N. Y., a corporation of New York.
Filed Nov. 9, 1950, Serial No. 606,175. Published Oct. 28, 1952. Class 12.

580,904. Home Hair Coloring. Bymart-Tintair, Inc., Dover, Del., and New York, N. Y., by change of name from Bymart, Inc.
Filed Dec. 14, 1950, Serial No. 607,659. Published June 30, 1953. Class 51.

580,905. Cast Iron Pipe. Warren Foundry & Pipe Corp., Phillipsburg, N. J.
Filed Nov. 24, 1950, Serial No. 608,185. Published July 14, 1953. Class 13.

580,906. Veterinary Preparations for Internal Use, Particularly, Worm Removing Remedies for Use in Poultry and Livestock. Dr. Salsbury's Laboratories, Charles City, Iowa.
Filed Dec. 23, 1950, Serial No. 608,188. Published Sept. 9, 1952. Class 18.

580,907. Water Soluble Base Used in Pharmaceutical Preparations Sold by the Trade-Mark Owner, and as a Carrier for the Active Ingredients of Such Pharmaceutical Preparations. Block Drug Company, Inc., doing business under the trade name and style of Emergency Laboratories, Jersey City, N. J.
Filed Jan. 18, 1951, Serial No. 608,913. Published May 12, 1953. Class 18.

580,908. Cheese. Foodville Inc., Flushing, N. Y., assignor to Daitch Crystal Dairies, Inc., Bronx, N. Y.
Filed Jan. 26, 1951, Serial No. 609,292. Published Feb. 10, 1953. Class 46.

580,909. Drag Links and Tie Rod Ends for Automotive Vehicles. Barmatic Products Company, Cleveland, Ohio.
Filed Feb. 7, 1951, Serial No. 609,712. Published July 14, 1953. Class 19.

580,910. Waterproofing Composition Suitable for Waterproofing Various Types of Materials Including Fabrics, Leather, Paper, Etc., and Articles or Products Made Therefrom. Gard Industries, Skokie, Ill.
Filed Feb. 7, 1951, Serial No. 609,721. Published July 21, 1953. Class 6.

580,911. Flush Tank Balls. Radiator Specialty Company, Charlotte, N. C.
Filed Feb. 28, 1951, Serial No. 610,631. Published July 21, 1953. Class 13.

580,912. Liquid Preparation To Be Added to the Cylinders, Gasoline Tank, Etc. Sweetman's Laboratories, Inc., Winnsboro, La., assignor to Hastogo Laboratories, Inc., Monroe, La., a corporation of Louisiana.
Filed Mar. 5, 1951, Serial No. 610,869. Published Dec. 9, 1952. Class 52.

580,913. Severable Flower Boxes, Vases, Urns, and Jars, All Made of Artificial Stoneware. Colorcrete Industries, Incorporated, Holland, Mich.
Filed Mar. 8, 1951, Serial No. 611,018. Published Nov. 25, 1952. Class 30.

580,914. Cementitious Material To Be Mixed With Water and Applied to Walls and Other Building Components, and to Other Objects, as a Protective and Decorative Coating. Colorcrete Industries, Incorporated, Holland, Mich.
Filed Apr. 13, 1951, Serial No. 612,589. Published Oct. 14, 1952. Class 12.

580,915. Metal Reflectors for Photographic Lamps. Testrite Instrument Co., Inc., New York, N. Y.
Filed Apr. 20, 1951, Serial No. 612,938. Published May 12, 1953. Class 26.

580,916. Solution Feeding Attachment for Commercial Can Washers, Bottle Washers and the Like Provided With an Electronically Operated Mechanism, Etc. The Diversey Corporation, Chicago, Ill.
Filed May 5, 1951, Serial No. 613,562. Published June 16, 1953. Class 26.

580,917. Electronic Instrument Which Simultaneously Registers the Amplitude of Vibration in Linear Displacement and the Frequency of Its Occurrence, Etc. Lion Manufacturing, Inc., Columbus, Ohio.
Filed May 8, 1951, Serial No. 613,647. Published June 16, 1953. Class 26.

580,918. Sliding Door Sheaves, Door Tracks, Door Rollers, Etc. Garden City Plating & Mfg. Co., Chicago, Ill.
Filed May 14, 1951, Serial No. 613,841. Published July 14, 1953. Class 13.

580,919. Publication Published Periodically. Howard W. Sams & Co., Inc., Indianapolis, Ind.
Filed May 17, 1951, Serial No. 614,010. Published June 30, 1953. Class 38.

580,920. Cotton Linings for Garments Sold by the Piece, by the Yard, or in the Bolt. Chicopee Manufacturing Corporation, New Brunswick, N. J., assignor to Chicopee Mills, Inc., New York, N. Y., a corporation of New York.
Filed June 25, 1951, Serial No. 615,624. Published July 14, 1953. Class 42.

580,921. Various Ceramic Products—Namely, Vases, Bowls, Fish Bowls, Pots, Flower Pots, Console Sets, Novelty Plant Holders, Novelty Flower Holders, and Mugs. The Haeger Potteries, Inc., Dundee, Ill.
Filed June 28, 1951, Serial No. 615,829. Published June 2, 1953. Class 30.

580,922. Woven Textile Fabric Formed of Continuous Synthetic Filaments. United States Rubber Company, New York, N. Y.
Filed June 29, 1951, Serial No. 615,915. Published July 14, 1953. Class 42.

580,923. Cultivator Tool Bars for Attachment to a Wheeled Vehicle To Support Earth-Engaging Implements. John Blue Company, Inc., Huntsville, Ala.
Filed July 16, 1951, Serial No. 616,542. Published Apr. 28, 1953. Class 23.

580,924. Detergents for Cleaning Objects Made of Silver, Aluminum, Stainless Steel, or Porcelain, and Painted or Enameled Surfaces. Diadust Corporation, Manhasset, N. Y.
Filed July 17, 1951, Serial No. 616,591. Published July 14, 1953. Class 52.

580,925. Pulley Lagging Made of Rubber and Textile Material for Use With Flat Belting. The B. F. Goodrich Company, Akron, Ohio.
Filed July 21, 1951, Serial No. 616,766. Published July 21, 1953. Class 35.

580,926. Metal Hollow Ware Ovens for Use on the Top of Stoves for Heating, Baking, and Cooking Purposes—Namely, Dutch Ovens. The Everedy Company, Frederick, Md.
Filed Aug. 8, 1951, Serial No. 617,428. Published June 3, 1952. Class 13.

580,927. Piece Goods of Rayon, Nylon, Silk, Cotton, Wool, and Combinations Thereof for Making Into Wearing Apparel. Goodman & Theise, Inc., New York, N. Y.
Filed Sept. 10, 1951, Serial No. 618,576. Published July 14, 1953. Class 42.

580,928. Thermostatically Controlled Instruments Responsive to Sudden Temperature Changes Such as Fire Detectors and Controls for Heating and Cooling Units. Eastern Electric, Inc., New Bedford, Mass.
Filed Sept. 11, 1951, Serial No. 618,630. Published May 12, 1953. Class 26.

580,929. Combination Mailing Envelopes and Partially Printed Business Statements. Gene E. Saffell, Minneapolis, Minn.
Filed Sept. 13, 1951, Serial No. 618,762. Published June 16, 1953. Class 37.

580,930. Liquid Wood Preservative for Preventing Rot and for Prevention of Termites, Bluebugs, and Other Insects. Gordon Chemical Co., Inc., Kansas City, Mo.
Filed Oct. 26, 1951, Serial No. 620,501. Published July 21, 1953. Class 6.

580,931. Blood Anti-Coagulant Solutions of Various Concentrations of Sodium Citrate in Water. Don Baxter, Inc., Glendale, Calif.
Filed Oct. 29, 1951, Serial No. 620,565. CONCURRENT USE. Published June 30, 1953. Class 18.

580,932. Blood Anti-Coagulant Solutions of Various Concentrations of Sodium Citrate in Water, Etc. Don Baxter, Inc., Glendale, Calif.
Filed Oct. 29, 1951, Serial No. 620,569. CONCURRENT USE. Published June 30, 1953. Class 18.

580,933. Solutions Containing Vitamins or Constituents Thereof and Solutions for Parenteral Therapy Containing Synthesized Constituents of Vitamin B-Complex. Don Baxter, Inc., Glendale, Calif.
Filed Oct. 29, 1951, Serial No. 620,570. CONCURRENT USE. Published June 30, 1953. Class 18.

580,934. Solutions for Parenteral Use Comprising: Various Concentrations of Hydrolyzed Protein in Water, Etc. Don Baxter, Inc., Glendale, Calif.
Filed Oct. 29, 1951, Serial No. 620,574. CONCURRENT USE. Published June 30, 1953. Class 18.

580,935. Blood Anti-Coagulant Solutions of Various Concentrations of Sodium Citrate in Water. Baxter Laboratories, Inc., Morton Grove, Ill.
Filed Oct. 29, 1951, Serial No. 620,575. CONCURRENT USE. Published June 30, 1953. Class 18.

580,936. Blood Anti-Coagulant Solutions of Various Concentrations of Sodium Citrate in Water, and Dextrose, Sodium Citrate, and Citric Acid in Water. Baxter Laboratories, Inc., Morton Grove, Ill.
Filed Oct. 29, 1951, Serial No. 620,579. CONCURRENT USE. Published June 30, 1953. Class 18.

580,937. Fluids for Parenteral Use Comprising Solutions Containing Vitamins or Constituents Thereof, Etc. Baxter Laboratories, Inc., Morton Grove, Ill.
Filed Oct. 29, 1951, Serial No. 620,581. CONCURRENT USE. Published June 30, 1953. Class 18.

580,938. Fluids for Parenteral Use Comprising Water for Injection; Dextrose in Water, Etc. Baxter Laboratories, Inc., Morton Grove, Ill.
Filed Oct. 29, 1951, Serial No. 620,583. CONCURRENT USE. Published June 30, 1953. Class 18.

580,939. Men's, Women's, and Children's Knitted Apparel—Namely, Sweaters, Jackets, Stockings, Socks, and Scarves. Forstmann Woolen Company, Passaic, N. J.
Filed Nov. 3, 1951, Serial No. 620,845. Published June 30, 1953. Class 39.

580,940. Boys' Pants. Supreme Pants Co., Inc., New York, N. Y.
Filed Nov. 6, 1951, Serial No. 620,935. Published June 30, 1953. Class 39.

580,941. Grooved Phonograph Records. Arthur S. Alberts, New York, N. Y.
Filed Nov. 7, 1951, Serial No. 620,947. Published July 14, 1953. Class 36.

580,942. Men's and Women's Hats and Caps. David Ingram, Detroit, Mich.
Filed Nov. 7, 1951, Serial No. 620,965. Published June 30, 1953. Class 39.

580,943. Motor-Driven High Speed Centrifugal Mixing Apparatus for Mixing Fluids. Premier Mill Corporation, Geneva, N. Y.
Filed Nov. 19, 1951, Serial No. 621,421. Published May 5, 1953. Class 23.

580,944. Electric Arc Welding Electrodes of Metal for Welding Low Alloy High Tensile Steel. Arcos Corporation, Philadelphia, Pa.
Filed Dec. 29, 1951, Serial No. 622,977. Published July 14, 1953. Class 14.

580,945. Baseballs, Baseball Gloves, Baseball Bats, Basketballs, Boxing Gloves, Footballs, Football Helmets, Soccer Balls, Softballs, Softball Gloves, and Softball Bats. Solin Sporting Goods Company, New York, N. Y.
Filed Jan. 2, 1952, Serial No. 623,085. Published July 14, 1953. Class 22.

580,946. Washing Compound Especially Suited for Scouring Fabrics Impregnated With Grease. Diamond Alkali Company, Cleveland, Ohio.
Filed Jan. 16, 1952, Serial No. 623,651. Published July 21, 1953. Class 52.

580,947. Sealing Compound or Lubricant Which Is Resistant to Solvents, Etc. Henry A. Schwager, Jr., doing business as Resistant Lubricant Co. of America, Royal Oak, Mich.
Filed Jan. 16, 1952, Serial No. 623,683. Published June 30, 1953. Class 15.

580,948. Cleaner for the Removal of Smoke, Smudge, Grease, Dye Matter, and Other Household Dirt From Hard Surfaces Such as Wood, Metal, Glass, Paint, and Porcelain. John W. Moore, doing business as Moore Products Mfg. Co., Amea, Iowa.
Filed Jan. 31, 1952, Serial No. 624,348. Published July 21, 1953. Class 32.

580,949. Fountain Pens. Markwell Manufacturing Co., Inc., New York, N. Y.
Filed Feb. 19, 1952, Serial No. 625,208. Published June 30, 1953. Class 37.

580,950. Injectable Estrogen-Containing Composition for Administration to Poultry and Other Animals. Mattox and Moore, Inc., Indianapolis, Ind.
Filed Mar. 6, 1952, Serial No. 626,039. Published July 7, 1953. Class 18.

580,951. Playing Cards. The United States Playing Card Company, Cincinnati, Ohio.
Filed Mar. 7, 1952, Serial No. 626,125. Published July 7, 1953. Class 22.

580,952. Complementary Pairs of Magnetised Metallic Indicators, Etc. Herman A. Heise, Milwaukee, Wis.
Filed Mar. 11, 1952, Serial No. 626,248. Published June 23, 1953. Class 26.

580,953. Liquid Preparation Which Is Put on Live or Artificial Bait To Attract Fish by Scent. Davis Manufacturing Co., Inc., doing business as Davis Manufacturing Co., Knoxville, Tenn.
Filed Mar. 18, 1952, Serial No. 626,609. Published July 21, 1953. Class 22.

580,954. Fiberglass Scrim Fabric Impregnated With Adhesive for Use as Bonding Material Between Metal, Cotton, Fiberglas, or Paper Honeycomb Core Material and Metal, Laminated Papers and Fabric Faces. Narmco, Inc., San Diego, Calif.
Filed Mar. 22, 1952, Serial No. 626,890. Published June 16, 1953. Class 5.

580,955. Hydrogenated Lard. The Humko Co., doing business under the name of Tri-State Refining Co., Memphis, Tenn.
Filed Apr. 3, 1952, Serial No. 627,508. Published June 16, 1953. Class 46.

580,956. Dietary Supplements for Feeding Dogs Containing Lecithin, Vitamins, and Nutritional Essentials. American Lecithin Co. Inc., New York and Woodside, N. Y.
Filed Apr. 7, 1952, Serial No. 627,659. Published July 7, 1953. Class 18.

580,957. Fabrics Made of Cotton, Wool, Silk, Linen, and Synthetic Fibers. Samuel Chapman Inc., New York, N. Y.
Filed Apr. 8, 1952, Serial No. 627,733. Published July 14, 1953. Class 42.

580,958. Formula Mixed Feeds for Live Stock and Poultry. Northern Milling Company, Wausau, Wis.
Filed Apr. 9, 1952, Serial No. 627,829. Published July 7, 1953. Class 46.

580,959. Artificial Fish Lures. Barbee Bait Company, Fort Wayne, Ind.
Filed Apr. 12, 1952, Serial No. 627,994. Published July 14, 1953. Class 22.

580,960. Shaft Seals for Preventing Leakage of Fluid Around Movable Shafts. Robertshaw-Fulton Controls Company, Greensburg, Pa.
Filed Apr. 12, 1952, Serial No. 628,010. Published July 14, 1953. Class 35.

580,961. Grain Fumigants. Pronto Products Co., Kansas City, Kans.
Filed Apr. 14, 1952, Serial No. 628,051. Published July 21, 1953. Class 6.

580,962. All Cotton Sports Denim, a Fabric. McCampbell & Company, Inc., New York, N. Y.
Filed Apr. 19, 1952, Serial No. 628,363. Published July 14, 1953. Class 42.

580,963. Chemical Composition for Application on Fabrics To Prevent or Reduce the Formation of Static Electrical Charges Thereon. George P. Butterfield, doing business as Slip Ease Products Co., Chicago, Ill.
Filed Apr. 29, 1952, Serial No. 628,844. Published July 21, 1953. Class 6.

580,964. Coffee and Tea. Peter Reeves Markets, Inc., New York, N. Y.
Filed Apr. 29, 1952, Serial No. 628,875. Published July 7, 1953. Class 46.

580,965. Crayons, Including Specifically Both Chalk Crayons and Wax Crayons in Various Colors and Grades. American Art Clay Company, Indianapolis, Ind.
Filed May 1, 1952, Serial No. 628,987. Published June 30, 1953. Class 37.

580,966. Concentrated Food Flavoring Material Containing Spice Essential Oils. Flavor Corporation of America, Chicago, Ill.
Filed May 8, 1952, Serial No. 629,161. Published May 26, 1953. Class 46.

580,967. Trailer Hitches. Harry C. Chambers, doing business as U-Neek Manufacturing Co., St. Louis, Mo.
Filed May 12, 1952, Serial No. 629,555. Published July 14, 1953. Class 19.

580,968. Automobiles and Structural Parts Thereof. Willys-Overland Motors, Inc., Toledo, Ohio., assignor to Willys Motors, Inc., Toledo, Ohio, a corporation of Pennsylvania.
Filed May 17, 1952, Serial No. 629,878. Published July 21, 1953. Class 19.

580,969. Facial Tissue. Marion Donovan, Saugatuck, Conn.
Filed May 22, 1952, Serial No. 630,061. Published June 16, 1953. Class 37.

580,970. Pickles and Pickle Relish. Charles J. Weidner, doing business under the name Weidner Canning Company, Plymouth, Ind.
Filed May 24, 1952, Serial No. 630,247. Published June 16, 1953. Class 46.

580,971. Crystal Table Ware. "Minex" Centrala Eksportowo-Importowa Wytworow Przemyslu Mineralnego Przedsiebiorstwo Panstwowe, Warsaw, Poland. Priority under Sec. 44(d). Polish Registration No. 35,714, filed Mar. 6, 1952.
Filed May 27, 1952, Serial No. 630,367. Published June 9, 1953. Class 33.

580,972. Jams, Jellies, Fruit Preserves, and Chili Sauce. Greenwich Preserving Co., Inc., Dunkirk, N. Y.
Filed June 4, 1952, Serial No. 630,708. Published June 16, 1953. Class 46.

580,973. Jams, Jellies, Fruit Preserves, and Chili Sauce. Greenwich Preserving Co., Inc., Dunkirk, N. Y.
Filed June 4, 1952, Serial No. 630,709. Published June 16, 1953. Class 46.

580,974. Fabrics of Silk, Wool, Cotton, Man Made Fibers, and Combinations Thereof. William Skinner & Sons, Holyoke, Mass., and New York, N. Y.
Filed June 4, 1952, Serial No. 630,735. Published July 14, 1953. Class 42.

580,975. Portable Tree Saw. Surgi Manufacturing Co., Joplin, Mo.
Filed June 5, 1952, Serial No. 630,812. Published Apr. 28, 1953. Class 23.

580,976. Anodized Toy Aluminum Tea Sets for Children. Aluminum Specialty Company, Manitowoc, Wis.
Filed June 6, 1952, Serial No. 630,820. Published July 14, 1953. Class 22.

580,977. Diaries. Carey Press Corporation, New York, N. Y.
Filed June 7, 1952, Serial No. 630,877. Published June 30, 1953. Class 37.

580,978. Hosiery for Women and Girls. Davenport Hosiery Mills, Inc., Chattanooga, Tenn.
Filed June 10, 1952, Serial No. 630,992. Published June 30, 1953. Class 39.

580,979. Castings of Brass Alloy. Doehler-Jarvis Corporation, Toledo, Ohio, assignor to National Lead Company, New York, N. Y., a corporation of New Jersey.
Filed June 10, 1952, Serial No. 630,996. Published June 9, 1953. Class 14.

580,980. Ground Flat Metal Stock. The Capewell Manufacturing Company, Hartford, Conn.
Filed June 13, 1952, Serial No. 631,141. Published July 14, 1953. Class 14.

580,981. Greeting Cards. United Printers and Publishers (Incorporated), doing business under the name Rust Craft Publishers, Boston, Mass.
Filed July 1, 1952, Serial No. 632,055. Published June 30, 1953. Class 38.

580,982. Syrup Used in the Making of Ice Cream. A. E. Iiles Company, Dallas, Tex.
Filed July 2, 1952, Serial No. 632,087. Published July 7, 1953. Class 46.

580,983. Baby Carriages and Strollers. Atlas Baby Carriage Co., Inc., New York, N. Y.
Filed July 5, 1952, Serial No. 632,144. Published July 14, 1953. Class 19.

580,984. Plastic Mix Including Pigment for Making Plastic Articles and Materials. Gering Products, Inc., Kenilworth, N. J.
Filed July 10, 1952, Serial No. 632,367. Published July 14, 1953. Class 6.

580,985. Textile Fabrics Composed of Hair, Wool, Silk, and Regenerated Cellulose Used for Upholstery, Seat Covers, Baggage Covers, and Furniture Covers. Comptoir des Textiles Artificiels, Paris, France.
Priority under Sec. 44(d). French Registration No. 506,977 filed Jan. 17, 1952.
Filed July 17, 1952, Serial No. 632,662. Published July 14, 1953. Class 42.

580,986. Women's Full Fashioned Hosiery. Anquin Company, Lehighton, Pa.
Filed July 21, 1952, Serial No. 632,820. Published June 30, 1953. Class 39.

580,987. Wide Elastic Fabrics for Corsets, Girdles, and Other Garments. United Elastic Corporation, Easthampton, Mass.
Filed July 30, 1952, Serial No. 633,280. Published July 14, 1953. Class 42.

580,988. Fresh Grapes. Hoak Packing Company, Inc., Fresno, Calif.
Filed Aug. 1, 1952, Serial No. 633,364. Published July 7, 1953. Class 46.

580,989. Men's Formal Clothing—Namely, Tuxedos, Full Dress Suits, Summer Formal Dinner Jackets, and Dress Trousers. R. Jacobs, Inc., Philadelphia, Pa.
Filed Aug. 1, 1952, Serial No. 633,366. Published Feb. 24, 1953. Class 39.

580,990. Earthenware, Porcelain, or Bone China Dinnerware, Decorative Plates, Vases, and Toby Jugs. Doulton & Co., Limited, Burslem and London, England.
Filed Aug. 7, 1952, Serial No. 633,573. Published June 2, 1953. Class 30.

580,991. Fishing Rods, Reels, and Reel Cases, Fishing Lines, Artificial Flies, and Lures, Etc. Chas. F. Orvis Company, Inc., Manchester, Vt.
Filed Aug. 8, 1952, Serial No. 633,626. Published July 21, 1953. Class 22.

580,992. Toothpaste Dispensers Designed To Be Attached to a Wall or Other Supporting Surface. Mid-State Products Company, Cleveland, Ohio.
Filed Aug. 20, 1952, Serial No. 634,205. Published July 14, 1953. Class 13.

580,993. Portable Electronic Music Tone Reproducing Keyboard Instrument Used as an Attachment for Pianos and Organs or for Use Independently Thereof. Jennings Musical Instruments Limited, Dartford, Kent, England.
Filed Aug. 28, 1952, Serial No. 634,596. Published July 14, 1953. Class 36.

580,994. Ceramic Decalcomanias Sold to Manufacturers of Earthenware and China as Decorations for Such Ware. Commercial Decal, Inc., Mount Vernon, N. Y.
Filed Aug. 29, 1952, Serial No. 634,632. Published Mar. 10, 1953. Class 38.

580,995. Printed Cloth and Paper Labels and Printed Paper Tags. Metropolitan Label Co., Brooklyn, N. Y.
Filed Sept. 3, 1952, Serial No. 634,796. Published June 30, 1953. Class 38.

580,996. Chemical Compounds for Allaying Dust on Ground Surfaces—Namely, Race Tracks, Ball Parks, Etc. Reverman Enterprises, Columbus, Ohio.
Filed July 29, 1952, Serial No. 634,860. Published July 14, 1953. Class 6.

580,997. Textile Treating Compositions Containing Optical Bleaching Agents, Useful in Overcoming Yellow and Off-White Shades Often Occurring in Textile Materials, Thereby Imparting to Said Textiles a High Degree of Whiteness. Arkansas Company Inc., Newark, N. J.
Filed Sept. 9, 1952, Serial No. 635,020. Published July 14, 1953. Class 6.

580,998. Acoustic Tile and Sound Absorbing Baffles in the Form of Boards and Slabs of Interbonded Fibrous Glass. Owens-Corning Fiberglas Corporation, Toledo, Ohio.
Filed Sept. 11, 1952, Serial No. 635,148. Published June 16, 1953. Class 12.

580,999. Prophylactics. F. and M. Distributing Company, Little Rock, Ark.
Filed Sept. 12, 1952, Serial No. 635,176. Published July 14, 1953. Class 44.

581,000. Textile Fabrics Made of Wool, Cotton, and Synthetic Fibers, and Combinations Thereof. Deering, Milliken & Co., Inc., New York, N. Y.
Filed Sept. 17, 1952, Serial No. 635,350. Published July 14, 1953. Class 42.

581,001. Solution for Making a Master Sheet Out of Paper or Similar Products To Obtain Reproductions Therefrom. Columbia Ribbon & Carbon Manufacturing Company, Inc., Glen Cove, N. Y.
Filed Sept. 24, 1952, Serial No. 635,684. Published July 21, 1953. Class 6.

581,002. Tablecloths and Bedspreads. Quaker Lace Company, Philadelphia, Pa.
Filed Sept. 24, 1952, Serial No. 635,718. Published July 14, 1953. Class 42.

581,003. Insulated Porcelain Enamel Panels Which May Be Used for Curtain Wall Construction, Etc. Seaporcel Metals, Inc., Long Island City, N. Y.
Filed Sept. 25, 1952, Serial No. 635,790. Published July 21, 1953. Class 12.

581,004. Bicycles. Andrew Fisher Cycle Co., Inc., New York, N. Y.
Filed Sept. 27, 1952, Serial No. 635,877. Published July 14, 1953. Class 19.

581,005. Preparation for Treating Hosiery To Prevent Runs. George F. Schulenburg, doing business as Herald Products Company, St. Louis, Mo.
Filed Sept. 27, 1952, Serial No. 635,886. Published July 21, 1953. Class 6.

581,006. Monthly Publication, Containing Items Principally of Interest to Applicant's Employees. Byron Jackson Co., Los Angeles, Calif.
Filed Oct. 2, 1952, Serial No. 636,080. Published June 30, 1953. Class 38.

581,007. Canned Soups; Mustard; Canned Baked Beans; and Sauces Containing Vegetables and Spices for Foods, Such as Meats, Sea Foods, Vegetables, Vegetable and Fruit Juices, and Spaghetti. G. F. Heublein & Bro., Inc., Hartford, Conn.
Filed Oct. 3, 1952, Serial No. 636,128. Published June 30, 1953. Class 46.

581,008. Artificial Teeth. American Porcelain Tooth Company Ltd., Nahlat Itshak, near Tel-Aviv, Israel.
Filed Oct. 6, 1952, Serial No. 636,191. Published July 21, 1953. Class 44.

581,009. Sassafras Tea Concentrate. Ferol A. Lower, doing business as Pappy's Products, House Springs, Mo.
Filed Oct. 6, 1952, Serial No. 636,240. Published July 7, 1953. Class 46.

581,010. Powdered Bleach. Milner Products Company, Jackson, Miss.
Filed Oct. 6, 1952, Serial No. 636,243. Published July 21, 1953. Class 6.

581,011. Canned Dog Food. Madeleine Cormier, doing business as Bona-Fido Dog Food Co., New York, N. Y.
Filed Oct. 8, 1952, Serial No. 636,345. Published June 16, 1953. Class 46.

581,012. Fishing Tackle—Namely, Stringers and Snaps Therefor, Floats and Reels. James Heddon's Sons, Dowagiac, Mich.
Filed Oct. 16, 1952, Serial No. 636,708. Published July 21, 1953. Class 22.

581,013. Fresh Oranges and Grapefruit. Milne-O'Berry Packing Co. Inc., St. Petersburg, Fla.
Filed Oct. 18, 1952, Serial No. 636,856. Published July 7, 1953. Class 46.

581,014. Fresh Eggs. Daniel Feed and Seed Co., Douglas, Ga.
Filed Oct. 20, 1952, Serial No. 636,882. Published July 7, 1953. Class 46.

581,015. Tax Computation Booklets Published Annually. Paramount Publishing Company, Charlotte, N. C., assignor to John C. Bennett, Charlotte, N. C.
Filed Oct. 23, 1952, Serial No. 637,076. Published June 30, 1953. Class 38.

581,016. Toy Replicas of Wheel Tractors, Track-Type Tractors, Bulldozers, Dump Wagons, Motor Graders, Scrapers, and Rippers. Caterpillar Tractor Co., Peoria, Ill.
Filed Oct. 24, 1952, Serial No. 637,111. Published July 7, 1953. Class 22.

581,017. Glassware—Namely, Beverage Glasses. Futura Corporation, Chicago, Ill.
Filed Oct. 25, 1952, Serial No. 637,177. Published June 9, 1953. Class 33.

581,018. Bird Biscuits. Edna Andrelle Bach, doing business under the name and style of Bach's Peck-O-Egg Mfg. Co., Manhattan Beach, Calif.
Filed Oct. 27, 1952, Serial No. 637,232. Published June 30, 1953. Class 46.

581,019. Polishing Powder for Use on All Wax Surfaces To Produce a Lustrous Finish. Henry C. Campbell, doing business as El-Bo-Ex Company, Skaneateles, N. Y.
Filed Oct. 28, 1952, Serial No. 637,264. Published July 7, 1953. Class 4.

581,020. Magazine Column. The New Yorker Magazine, Inc., New York, N. Y.
Filed Oct. 30, 1952, Serial No. 637,392. Published June 30, 1953. Class 38.

581,021. Fresh Citrus Fruits. Murphy Ranch Company, Whittier, Calif.
Filed Nov. 7, 1952, Serial No. 637,784. Published June 16, 1953. Class 46.

581,022. Rolled Carbon-Bearing Nickel Anode Bars. The International Nickel Company, Inc., New York, N. Y.
Filed Nov. 8, 1952, Serial No. 637,826. Published July 14, 1953. Class 14.

581,023. Mirror Supporting Fixture for Mounting on Dressers, Bureaus, Vanity Tables, and the Like. Market Metal Products, Youngstown, Ohio.
Filed Nov. 12, 1952, Serial No. 637,932. Published July 14, 1953. Class 13.

581,024. Trading or Merchandise Stamps. Stanley D. Smith, doing business as Gift House, Aberdeen, S. Dak.
Filed Nov. 13, 1952, Serial No. 638,018. Published June 30, 1953. Class 38.

581,025. Electronic Hearing Aids. The Maico Company, Incorporated, Minneapolis, Minn.
Filed Nov. 19, 1952, Serial No. 638,304. Published July 21, 1953. Class 44.

581,026. Rope Clamps. American Hoist & Derrick Co., St. Paul, Minn.
Filed Nov. 21, 1952, Serial No. 638,388. Published July 14, 1953. Class 13.

581,027. Butter. The Borden Company, New York, N. Y.
Filed Nov. 21, 1952, Serial No. 638,398. Published July 7, 1953. Class 46.

581,028. Inner Tubes. United States Rubber Company, New York, N. Y.
Filed Nov. 21, 1952, Serial No. 638,454. Published July 21, 1953. Class 35.

581,029. Pneumatic Tires and Inner Tubes. United States Rubber Company, New York, N. Y.
Filed Nov. 22, 1952, Serial No. 638,505. Published July 21, 1953. Class 35.

581,030. Canned Hams. Union Packing Co. (Canada) Ltd., Toronto, Ontario, Canada.
Filed Nov. 26, 1952, Serial No. 638,673. Published June 16, 1953. Class 46.

581,031. Newspaper Columns. The Sporting News Publishing Company, Inc., St. Louis, Mo.
Filed Nov. 29, 1952, Serial No. 638,783. Published June 30, 1953. Class 38.

581,032. Semi-Vitreous China—Namely, Baby Bowls, Etc. Quaker China of Salem, Inc., Salem, Ohio.
Filed Dec. 2, 1952, Serial No. 638,870. Published June 9, 1953. Class 30.

581,033. Knitted Fabrics Made of Synthetic and Wool Fibers. Princeton Knitting Mills, Inc., New York, N. Y.
Filed Dec. 4, 1952, Serial No. 638,974. Published July 14, 1953. Class 42.

581,034. Food Coating Made From Sweet Chocolate and Vegetable Fat. J. H. Hobson Company, Philadelphia, Pa.
Filed Dec. 5, 1952, Serial No. 639,051. Published July 7, 1953. Class 46.

581,035. Food Coating Made From Sweet Chocolate and Vegetable Fat for Ice Cream Bars. J. H. Hobson Company, Philadelphia, Pa.
Filed Dec. 5, 1952, Serial No. 639,052. Published July 7, 1953. Class 46.

581,036. Floor Sweeping Composition With Incidental Polishing Properties. Kentile, Inc., Brooklyn, N. Y.
Filed Dec. 8, 1952, Serial No. 639,176. Published July 14, 1953. Class 4.

581,037. Sizing and Finishing Preparations for Use in Manufacturing or Processing Textiles, Paper, and Leather. Tragasol Products Limited, Hooton, Wirral, England.
Filed Dec. 8, 1952, Serial No. 639,201. Published July 14, 1953. Class 6.

581,038. Dinnerware and Tableware Made of China. Noritake Co., Inc., New York, N. Y.
Filed Dec. 9, 1952, Serial No. 639,235. Published June 9, 1953. Class 30.

581,039. Dinnerware and Tableware Made of China. Noritake Co., Inc., New York, N. Y.
Filed Dec. 9, 1952, Serial No. 639,236. Published June 9, 1953. Class 30.

581,040. Table Leveling Glides. A. J. Matter Mfg. Co., Chicago, Ill.
Filed Dec. 12, 1952, Serial No. 639,382 Published July 21, 1953. Class 13.

581,041. Periodically Issued Series of Radio Scripts Sold as Such. Russ Cunningham, Chicago, Ill.
Filed Dec. 12, 1952, Serial No. 639,395. Published June 30, 1953. Class 38.

581,042. Textile Fabrics Made of Wool, Silk, Cotton, Rayon, Linen, and Nylon. Comptoir de l'Industrie Cotonniere, Etablissements Boussac, Société à Responsabilité Limitée, Paris, France.
Filed Dec. 13, 1952, Serial No. 639,417. Published July 14, 1953. Class 42.

581,043. Measuring Instrument for Determining the Resistance of One Leg of a Wye Network. Technology Instrument Corporation, Acton, Mass.
Filed Dec. 13, 1952, Serial No. 639,448. Published June 16, 1953. Class 26.

581,044. Aluminum Foil for Household Use. Donn H. Gannon, doing business under the fictitious name and style of Foil Enterprises, Mill Valley, Calif.
Filed Dec. 15, 1952, Serial No. 639,468. Published July 14, 1953. Class 14.

581,045. Shoe Racks and Hat Racks Designed To Be Affixed to a Wall or Other Supporting Surface. Stern Brothers, New York, N. Y.
Filed Dec. 15, 1952, Serial No. 639,511. Published July 21, 1953. Class 13.

581,046. Lazy Susans Made of Plastic. National Plastic Corporation, New York, N. Y.
Filed Dec. 2, 1952, Serial No. 639,544. Published July 14, 1953. Class 13.

581,047. Bond Paper. American Paper & Pulp Co., Inc., New York, N. Y.
Filed Dec. 16, 1952, Serial No. 639,545. Published June 30, 1953. Class 37.

581,048. Sun Glasses. Willson Products, Inc., Reading, Pa.
Filed Dec. 16, 1952, Serial No. 639,600. Published June 16, 1953. Class 26.

581,049. Magnifying Spectacles. Armco Mercantile Co., Chicago, Ill.
Filed Dec. 17, 1952, Serial No. 639,608. Published June 16, 1953. Class 26.

581,050. Sound Accompanied Motion Picture Projectors. Bell & Howell Company, Chicago, Ill.
Filed Dec. 17, 1952, Serial No. 639,614. Published June 16, 1953. Class 26.

581,051. Tantalum, Tungsten, Molybdenum, and Columbium, Etc. Fansteel Metallurgical Corporation, North Chicago, Ill.
Filed Dec. 17, 1952, Serial No. 639,623. Published July 14, 1953. Class 14.

581,052. Preparations for Fireproofing Wood, Wood Products, Paper, Paper Products, and Textiles, and Insecticidal Sprays. Flamort Chemical Co., San Francisco, Calif.
Filed Dec. 17, 1952, Serial No. 639,627. Published July 21, 1953. Class 6.

581,053. Anticholinergic Preparation. Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc., a corporation of New Jersey.
Filed Dec. 17, 1952, Serial No. 639,662. Published July 7, 1953. Class 18.

581,054. Antibiotic Preparation for Use in Antibacterial Therapy. Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc., a corporation of New Jersey.
Filed Dec. 17, 1952, Serial No. 639,663. Published July 7, 1953. Class 18.

581,055. Anticholinergic Preparation. Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc., a corporation of New Jersey.
Filed Dec. 17, 1952, Serial No. 639,665. Published July 7, 1953. Class 18.

581,056. Lipotropic Preparation. The Upjohn Company, Kalamazoo, Mich.
Filed Dec. 17, 1952, Serial No. 639,679. Published July 7, 1953. Class 18.

581,057. Fountain Pens, Ball Point Pens, Mechanical Pencils, and Combinations Thereof in Sets. Windsor Pen Corp., New York, N. Y.
Filed Dec. 17, 1952, Serial No. 639,684. Published June 30, 1953. Class 37.

581,058. Periodical in the Nature of an Employee's Magazine Published From Time to Time. The Sandy Hill Iron & Brass Works, Hudson Falls, N. Y.
Filed Dec. 19, 1952, Serial No. 639,782. Published June 30, 1953. Class 38.

581,059. Foot Cream Indicated for the Relief of Pain and Soreness Caused by Corns and Callouses or Walking or Standing Long Periods. Dora Center Snyder, doing business as Center Products Co., Ilion, N. Y.
Filed Dec. 19, 1952, Serial No. 639,787. Published July 7, 1953. Class 18.

581,060. Solution for Preventing Decay of the Teeth. J. Wiltz Emmer, doing business under the name of The Surfluoricide Co., New Iberia, La.
Filed Dec. 23, 1952, Serial No. 639,925. Published July 14, 1953. Class 18.

581,061. Photographic Films and Sensitized Photographic Papers. Dr. Edgar Gretener A. G., Zurich, Switzerland.
Filed Dec. 23, 1952, Serial No. 639,930. Published June 23, 1953. Class 26.

581,062. Ladies' Hosiery. Spurgeon Hosiery Corporation, Philadelphia, Pa.
Filed Dec. 23, 1952, Serial No. 639,962. Published June 30, 1953. Class 39.

581,063. Rice Polish Used in the Preparation of Foods and for Animal and Poultry Feeds. Rice Growers Association of California, Sacramento, Calif.
Filed Dec. 24, 1952, Serial No. 640,009. Published June 16, 1953. Class 46.

581,064. Analog Computers, Accelerometers, and Highly Calibrated Potentiometers. Servomechanisms, Inc., Westbury, N. Y.
Filed Dec. 24, 1952, Serial No. 640,013. Published June 23, 1953. Class 26.

581,065. Poultry Watering Fountains Designed To Be Connected to a Permanent Water Supply. The Harwood Co., Farmingdale, N. J.
Filed Dec. 26, 1952, Serial No. 640,041. Published July 14, 1953. Class 13.

581,066. Vacuum Diffusion Pump Fluids Comprising Chlorinated Hydrocarbon Oils. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed Dec. 29, 1952, Serial No. 640,111. Published July 21, 1953. Class 6.

581,067. High Vacuum Gaskets. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed Dec. 29, 1952, Serial No. 640,113. Published July 21, 1953. Class 35.

581,068. Ball Point Pens, Fountain Pens, Mechanical Pencils, and Pen and Pencil Desk Sets. Ferber Corporation, Englewood, N. J.
Filed Dec. 30, 1952, Serial No. 640,155. Published June 30, 1953. Class 37.

581,069. Castor Oil Base Plasticizers. Reichhold Chemicals, Inc., Detroit, Mich.
Filed Jan. 2, 1953, Serial No. 640,306. Published July 21, 1953. Class 6.

581,070. Transmission Belting. Ton-Tex Corporation, Grand Rapids, Mich., and New York, N. Y.
Filed Jan. 2, 1953, Serial No. 640,312. Published July 21, 1953. Class 35.

581,071. Cream Hair Dressing and Wave Set. Wildroot Company Inc., Buffalo, N. Y.
Filed Jan. 2, 1953, Serial No. 640,315. Published July 21, 1953. Class 51.

581,072. Face Cream. Bonne Bell Inc., Lakewood, Ohio.
Filed Jan. 7, 1953, Serial No. 640,437. Published July 14, 1953. Class 51.

581,073. Paper Napkins. Fort Howard Paper Company, Green Bay, Wis.
Filed Jan. 8, 1953, Serial No. 640,508. Published June 30, 1953. Class 37.

581,074. Canned, Fresh, and Fresh Frozen Fish. Columbia River Packers Association, Inc., Astoria, Oreg.
Filed Jan. 13, 1953, Serial No. 640,671. Published July 7, 1953. Class 46.

581,075. Semi-Yearly Periodical Publication in the Form of Catalogs Sold to Accounts. National Plumbing Stores Corp., Columbus, Ohio.
Filed Jan. 14, 1953, Serial No. 640,750. Published June 30, 1953. Class 38.

581,076. Periodical Publication. American Colortype Company, Chicago, Ill., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania.
Filed Jan. 19, 1953, Serial No. 640,899. Published June 30, 1953. Class 38.

581,077. Astringent Powder and Astringent Cream. Dearborn Supply Company, Chicago, Ill.
Filed Jan. 19, 1953, Serial No. 640,917. Published July 14, 1953. Class 51.

581,078. Organopolysiloxane Fluids for Use as Polishes and Polish Additives. Dow Corning Corporation, Midland, Mich.
Filed Jan. 19, 1953, Serial No. 640,920. Published July 21, 1953. Class 4.

581,079. Carbonated Beverage Dispenser To Release Soda or Carbonated Beverages From a Bottle. Modern Sales Company, Los Angeles, Calif.
Filed Jan. 19, 1953, Serial No. 640,949. Published July 14, 1953. Class 13.

581,080. Hose Clamps. Wittek Manufacturing Co., Chicago, Ill.
Filed Jan. 19, 1953, Serial No. 640,989. Published July 14, 1953. Class 13.

581,081. Nuts—Namely, Shelled Almonds, Walnuts, Pecans, Filberts, Brazil Nuts, Spanish-Type Peanuts, and Ordinary-Type Peanuts, Etc. Young Foods, Inc., Danville, Ill.
Filed Jan. 19, 1953, Serial No. 640,991. Published June 16, 1953. Class 46.

581,082. Cosmetics and Toilet Preparations—Namely, Face Cream, Etc. Carolyn Nilson, doing business under the name Carolyn Nilson, Cosmetics, Detroit, Mich.
Filed Jan. 21, 1953, Serial No. 641,080. Published July 21, 1953. Class 51.

581,083. Textile Carpets and Carpeting Having a Rubber Cushion Backing. The Royal Rubber Company, Akron, Ohio.
Filed Jan. 21, 1953, Serial No. 641,090. Published July 14, 1953. Class 42.

581,084. Metallic Welding Electrodes. Eutectic Welding Alloys Corporation, New York, N. Y.
Filed Jan. 22, 1953, Serial No. 641,134. Published July 14, 1953. Class 14.

581,085. Textile Fabrics of Wool and Synthetic Fibres. Newnan Cotton Mills, Newnan, Ga.
Filed Jan. 22, 1953, Serial No. 641,148. Published July 14, 1953. Class 42.

581,086. Ball Type Float Valves for Commode Tanks. Andrew J. Richardson, doing business as The-Onlee Float Ball Valve Co., Lubbock, Tex.
Filed Jan. 26, 1953, Serial No. 641,330. Published July 21, 1953. Class 13.

581,087. Preparation To Be Used as a Windshield Glare Eliminator. Tar-Gon Products, Inc., Chicago, Ill.
Filed Jan. 27, 1953, Serial No. 641,400. Published July 14, 1953. Class 6.

581,088. Comic Magazines. Magazine Publishers, Inc., Chicago, Ill.
Filed Jan. 28, 1953, Serial No. 641,455. Published June 30, 1953. Class 38.

581,089. Synthetic Resin Pipe. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa.
Filed Feb. 2, 1953, Serial No. 641,597. Published July 21, 1953. Class 13.

581,090. Feed for Animals—Namely, Hogs and Pigs. Staley Milling Company, North Kansas City, Mo.
Filed Feb. 2, 1953, Serial No. 641,644. Published July 7, 1953. Class 46.

581,091. Soluble Fertilizer Concentrates. Monsanto Chemical Company, St. Louis, Mo.
Filed Feb. 3, 1953, Serial No. 641,684. Published July 21, 1953. Class 10.

581,092. Textile Carpets. Duraloom Carpet Mills, Inc., New York, N. Y.
Filed Feb. 2, 1953, Serial No. 641,703. Published July 14, 1953. Class 42.

581,093. Textile Fabrics in the Piece Made of Synthetic Fibres. Jeff Goldstein, Inc., New York, N. Y.
Filed Feb. 4, 1953, Serial No. 641,721. Published July 14, 1953. Class 42.

581,094. Blankets. Pepperell Manufacturing Company, Boston, Mass.
Filed Feb. 6, 1953, Serial No. 641,860. Published July 14, 1953. Class 42.

581,095. Flexible Pipe Couplings Comprising a Multiple Section Housing Made of Metal, Etc. Victaulic Company of America, Union, N. J.
Filed Feb. 6, 1953, Serial No. 641,875. Published July 21, 1953. Class 13.

581,096. Bakery Products—Namely, Bread. International Minerals & Chemical Corporation, Chicago, Ill.
Filed Feb. 9, 1953, Serial No. 641,927. Published July 21, 1953. Class 46.

581,097. Coal Tar Colors. Ciba Limited, Basel, Switzerland.
Priority under Sec. 44(d). Swiss Registration No. 144,268, filed Nov. 10, 1952.
Filed Feb. 10, 1953, Serial No. 642,015. Published July 21, 1953. Class 6.

581,098. Polyester Resins. Reichhold Chemicals, Inc., Detroit, Mich.
Filed Feb. 10, 1953, Serial No. 642,048. Published July 21, 1953. Class 6.

581,099. Candy. The Great Atlantic and Pacific Tea Company, New York, N. Y.
Filed Feb. 17, 1953, Serial No. 642,347. Published July 7, 1953. Class 46.

581,100. Plastic Toys. Plast-O-Matic Corporation, Fitchburg, Mass.
Filed Feb. 17, 1953, Serial No. 642,367. Published July 21, 1953. Class 22.

581,101. Laundry Washing Machines and Laundry Dryers. Marshall-Wells Company, Duluth, Minn.
Filed Feb. 24, 1953, Serial No. 642,677. Published July 14, 1953. Class 24.

581,102. Shelled Salted Peanuts, Shelled Salted Assorted Nut Meats, Shelled Walnut Meats, and Shelled Pecan Meats. Atlantic Commission Co. Inc., New York, N. Y.
Filed Feb. 26, 1953, Serial No. 642,795. Published June 30, 1953. Class 46.

581,103. Canned Pineapple Juice. The John G. Paton Company, Inc., New York, N. Y.
Filed Feb. 26, 1953, Serial No. 642,835. Published June 30, 1953. Class 46.

581,104. Watch Bands. Jacques Kreisler Manufacturing Corporation, North Bergen, N. J.
Filed Feb. 27, 1953, Serial No. 642,885. Published June 9, 1953. Class 28.

581,105. Liquid Corrosion Inhibitor for Use in Oil and Gas Wells. Cardinal Chemical, Inc., Dallas, Tex.
Filed Mar. 5, 1953, Serial No. 643,141. Published July 21, 1953. Class 6.

581,106. Dyestuff Stripping Agent for Textile Processing, Particularly Zinc Formaldehyde Sulfoxylate, Modifications Thereof and Compositions Containing the Same. General Dyestuff Corporation, New York, N. Y.
Filed Mar. 5, 1953, Serial No. 643,150. Published July 21, 1953. Class 6.

581,107. Compositions for Application to Interfaces of Optical Elements To Form Light Absorbing Films, Coatings, and Layers Thereon for the Purpose of Reducing Internal Reflections in Said Optical Elements. Northrop Aircraft, Inc., Hawthorne, Calif.
Filed Mar. 6, 1953, Serial No. 643,239. Published July 14, 1953. Class 6.

581,108. Fresh Vegetables. Sunny Sally Inc., Los Angeles, Calif.
Filed Mar. 6, 1953, Serial No. 643,248. Published June 30, 1953. Class 46.

581,109. Candy. E. J. Brach & Sons, Chicago, Ill.
Filed Mar. 9, 1953, Serial No. 643,276. Published June 30, 1953. Class 46.

581,110. Candy. E. J. Brach & Sons, Chicago, Ill.
Filed Mar. 9, 1953, Serial No. 643,277. Published July 7, 1953. Class 46.

581,111. Detergents. The Betco Corporation, Toledo, Ohio.
Filed Mar. 10, 1953, Serial No. 643,402. Published July 14, 1953. Class 52.

581,112. Cleaning and Polishing Preparation for Household and Automotive Hard Surfaces. S. C. Johnson & Son, Inc., Racine, Wis.
Filed Mar. 11, 1953, Serial No. 643,491. Published July 14, 1953. Class 4.

581,113. Incense. Holiday Ranch, Inc., Columbia Falls, Mont.
Filed Mar. 12, 1953, Serial No. 643,548. Published July 21, 1953. Class 6.

581,114. Dry Cleaning Soap. R. R. Street & Co., Inc., Chicago, Ill.
Filed Mar. 12, 1953, Serial No. 643,565. Published July 21, 1953. Class 52.

581,115. Wire Wheel Hubs. Casco Products Corporation, Bridgeport, Conn.
Filed Mar. 23, 1953, Serial No. 644,010. Published July 7, 1953. Class 19.

581,116. Suds for Dishes (a Detergent) and Free Rinse (a Detergent). Norsan Products, Inc., Cleveland, Ohio.
Filed Mar. 27, 1953, Serial No. 644,340. Published July 21, 1953. Class 52.

581,117. Dog Food. Elna Brands, Inc., Chicago, Ill.
Filed Mar. 30, 1953, Serial No. 644,398. Published July 7, 1953. Class 46.

581,118. Boat Kits Consisting of Pre-Cut Parts for Small Boats, Etc. Milton H. Penney, doing business as Penney Woodcraft Industries, Defiance, Ohio.
Filed Apr. 1, 1953, Serial No. 644,565. Published July 21, 1953. Class 19.

581,119. Baseball Sets, Consisting of Leather Baseball Gloves, Baseballs, and Baseball Bats. Graton & Knight Company, Worcester, Mass.
Filed May 8, 1953, Serial No. 646,664. Published July 21, 1953. Class 22.

581,120. Jigsaw and Picture Puzzles. Whitman Publishing Company, Racine, Wis.
Filed May 11, 1953, Serial No. 646,836. Published July 21, 1953. Class 22.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

581,121. (Class 19. Vehicles.) Stampings Incorporated, Davenport, Iowa, assignor, by mesne assignments, to Cargo-Guard Company, Portland, Maine, a corporation of Maine. Original filed, act of 1946, Principal Register, Sept. 24, 1949; amended to application, Supplemental Register, Aug. 10, 1953, Serial No. 585,301.

CARGO-GUARD

For Heaters for Trucks, Trailer Vans, Box Cars, and Buses.
Claims use since Aug. 3, 1949.

581,122. (Class 19. Vehicles.) Stampings Incorporated, Davenport, Iowa, assignor, by mesne assignments, to Cargo-Guard Company, Portland, Maine, a corporation of Maine. Original filed, act of 1946, Principal Register, Sept. 24, 1949; amended to application, Supplemental Register, Aug. 10, 1953, Serial No. 585,302.



For Heaters for Trucks, Trailer Vans, Box Cars, and Buses.
Claims use since Aug. 3, 1949.

581,123. (Class 14. Metals and Metal Castings and Forgings.) Specialloy, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Mar. 16, 1950; amended to application, Supplemental Register, Dec. 12, 1951, Serial No. 594,073.

ZINC EGGE

For Metals and Alloys in the Form of Electrodes, Anodes, and Metallurgical Shot, for Use in Electroplating, Alloying, and the Like.
Claims use since Feb. 28, 1950.

581,124. (Class 19. Vehicles.) Armco Industries, Inc., Detroit, Mich. Original filed, act of 1946, Principal Register, May 2, 1950; amended to application, Supplemental Register, Jan. 31, 1952, Serial No. 596,705.

HYDRO-FIN

For Hand Operated Feathering Paddle for Use at the Stern of a Boat.
Claims use since July 1947.

581,125. (Class 26. Measuring and Scientific Appliances.) Elgin Softener Corporation, Elgin, Ill. Original filed, act of 1946, Principal Register, Dec. 4, 1950; amended to application, Supplemental Register, June 24, 1953, Serial No. 607,248.

AUTORINSE

For Water Softener Control Valves Incorporating Automatic Timers for Timing Rinsing.
Claims use since May 3, 1950.

581,126. (Class 15. Oils and Greases.) Gold Eagle Products Co., Chicago, Ill. Original filed, act of 1946, Principal Register, Mar. 9, 1951; amended to application, Supplemental Register, July 17, 1953, Serial No. 611,087.



For Liquid Preparation for Lubricating, Freeing, and Preventing the Freezing of Keyholes and Removing and Preventing the Accumulation of Frost and Ice on Windshields and Windows of Automotive Vehicles.
Claims use since July 6, 1950.

581,127. (Class 31. Filters and Refrigerators.) F. Walker Boltz, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Sept. 6, 1951; amended to application, Supplemental Register, July 29, 1952, Serial No. 618,440.

FAULTLESS

For Multiple-Chamber Ice Cream Freezer, Operated From a Common Refrigeration Unit.
Claims use since July 24, 1951.

581,128. (Class 46. Foods and Ingredients of Foods.) Bake-O-Nuts, Incorporated, Englewood, N. J., assignor to Bake-O-Nuts Company, New York, N. Y., a copartnership. Original filed, act of 1946, Principal Register, Dec. 14, 1951; amended to application, Supplemental Register, Aug. 3, 1953, Serial No. 622,478.

Bake-O-Nuts

For Unshelled and Shelled, Baked, Salted, and Unsalted Nuts.
Claims use since November 1951.

581,129. (Class 52. Detergents and Soaps.) Oil Recovery Chemicals, Austin, Tex. Original filed, act of 1946, Principal Register, May 7, 1952; amended to application, Supplemental Register, May 15, 1953, Serial No. 629,315.

AQUA-BLOC

For Chemical Detergent To Be Circulated With Oil Under Pressure Into an Oil Producing Formation Area Surrounding a Well Bore To Force Water Outwardly From Such Area and To Form a Film on the Formation Particles, With the Result That Oil Production Thereafter May Be Increased While Water Production Is Abated and Minimized.
Claims use since Apr. 10, 1952.

581,130. (Class 26. Measuring and Scientific Appliances.) Robert E. Rose, doing business as Milk-O-Meter Co., Minneapolis, Minn. Original filed, act of 1946, Principal Register, Aug. 21, 1952; amended to application, Supplemental Register, Aug. 3, 1953, Serial No. 634,268.

MILK-O-METER

For Baby Milk Bottle Thermometers.
Claims use since July 26, 1952.

581,131. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Wisconsin Wire Works, Appleton, Wis. Original filed, act of 1946, Principal Register, Oct. 3, 1952; amended to application, Supplemental Register, July 17, 1953, Serial No. 636,162.

FLEXEDGE

For Fourdrinier Wire.
Claims use since Feb. 27, 1952.

581,132. (Class 46. Foods and Ingredients of Foods.) Pillsbury Mills, Inc., Minneapolis, Minn. Original filed, act of 1946, Principal Register, Oct. 23, 1952; amended to application, Supplemental Register, Aug. 11, 1953, Serial No. 637,060.

PIG FEAST

For Feed for Hogs.
Claims use since Jan. 11, 1952.

581,133. (Class 18. Medicines and Pharmaceutical Preparations.) Mario Sartori, Rome, Italy. Filed Oct. 21, 1952, Serial No. 637,161.

SARTORI

Applicant claims ownership of Italian Registration No. 92,624, dated Nov. 25, 1949.
For Medicines for the Relief and Treatment of Various Diseases and Disorders—Namely, Arthritis, Rheumatism.

581,134. (Class 18. Medicines and Pharmaceutical Preparations.) Hark Pharmacal Co., New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 29, 1952; amended to application, Supplemental Register, June 22, 1953, Serial No. 637,310.

KOF-EZE

For Medical and Pharmaceutical Cough Mixture.
Claims use since Nov. 20, 1950.

581,135. (Class 3. Baggage, Animal Equipments, Portfolios, and Pocketbooks.) Buxton, Incorporated, Springfield, Mass. Original filed, act of 1946, Principal Register, Nov. 7, 1953; amended to application, Supplemental Register, July 23, 1953, Serial No. 637,809.

SUPERFOLD

For Billfolds.
Claims use since July 2, 1952.

581,136. (Class 6. Chemicals and Chemical Compositions.) Atlantic Powdered Metals Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 25, 1952; amended to application, Supplemental Register, June 26, 1953, Serial No. 638,565.

MIRROR-GOLD

For Bronze Powder.
Claims use since Jan. 10, 1949.

581,137. (Class 16. Protective and Decorative Coatings.) Wilson G. Dietrich, doing business as Wilson Arts & Crafts, Faribault, Minn. Original filed, act of 1946, Principal Register, Dec. 3, 1952; amended to application, Supplemental Register, July 6, 1953, Serial No. 638,903.

NU MEDIA

For Artists' Hand Paint.
Claims use since Jan. 20, 1952.

581,138. (Class 16. Protective and Decorative Coatings.) Louis A. Wohlworth, doing business as Ohio Paint & Color Company, Cleveland, Ohio. Original filed, act of 1946, Principal Register, Jan. 21, 1953; amended to application, Supplemental Register, June 29, 1953, Serial No. 641,110.

CINDRSEAL

For Paint Having an Oil Base and Adapted for Use on the Exterior and Interior of Building Walls of Concrete, Stucco, and Masonry.
Claims use since June 2, 1950.

581,139. (Class 52. Detergents and Soaps.) The Procter & Gamble Company, Cincinnati, Ohio. Filed Apr. 10, 1953, Serial No. 645,073.



The drawing is lined for red, blue, and yellow but no claim is made to color. Applicant claims ownership of Registration No. 523,221.

For Sudsing Cleaner, Cleanser, and Detergent.

Claims use since Mar. 4, 1952.

581,140. (Class 46. Foods and Ingredients of Foods.) The Fleming Co., Incorporated, Topeka, Kans. Filed Apr. 13, 1953, Serial No. 645,759.

GOOD VALUE

For Canned Vegetables, Tomato Puree, Canned Pumpkin, Canned Sauerkraut, Canned Fruits, Canned Fruit Cocktail, Evaporated Fruits, Cocoa, Chocolate Candy, Food Flavoring Extracts, Corn Meal, Rolled Oats, Macaroni, Spaghetti, Vermicelli, Pancake Flour, Cornstarch for Food Purposes, Table Syrup, Canned Spaghetti, Canned Soup, Chili Beans in Chili Gravy, Canned Hominy, Canned Beans With Pork, Fruit Jelly, Apple Butter, Fruit Preserves, Evaporated Milk, Tea, Mincemeat, Salted Peanuts, Peanut Butter, Olives, Pickles, Spices, Catsup, Horseradish, Prepared Mustard, and Vinegar.

Claims use since Nov. 20, 1924.

TRADE-MARK REGISTRATIONS RENEWED

40,582. ALBA. Registered June 16, 1903. Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey. Re-renewed June 16, 1953. Tracing-Paper. Class 37.

40,777. REPRESENTATION OF THREE STARS. Registered July 14, 1903. Kampfe Bros., New York, N. Y. Re-renewed July 14, 1953, to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia. Cases for Razors and Razor Parts. Class 2.

41,201. "YANKEE" AND DESIGN. Registered Sept. 29, 1903. Jeremiah Reichard, New York, N. Y. Renewed Sept. 29, 1953, to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia. Safety-Razors and Razor-Blades. Class 23.

41,371. LOG CABIN. Registered Oct. 27, 1903. Colonial Salt Company, Akron, Ohio. Re-renewed Oct. 27, 1953, to Diamond Crystal Salt Co., St. Clair, Mich., a corporation of Michigan. Salt. Class 46.

90,762. "HORSEMAN" AND DESIGN. Registered Mar. 18, 1913. W. A. Tyzack & Co. Re-renewed Mar. 18, 1953, to W. A. Tyzack & Company Limited, Sheffield, England, a limited liability company organized under the laws of the United Kingdom. Plow and Beater Plates, Shear-Blades, Tobacco-Knives, Etc. Class 23.

91,099. HYDROX. Registered Apr. 15, 1913. Loose-Wiles Biscuit Company, Boston, Mass. Re-renewed Apr. 15, 1953, to Sunshine Biscuits, Inc., Long Island City, N. Y., a corporation of New York. Biscuits, Cakes, and Cookies. Class 46.

91,282. TOM THUMB. Registered Apr. 22, 1913. Western Clock Co., Peru, Ill. Re-renewed Apr. 22, 1953, to General Time Corporation, La Salle, Ill., a corporation of Delaware. Clocks and Watches. Class 27.

92,767. KRUPP. Registered July 29, 1913. Fried. Krupp Aktiengesellschaft. Re-renewed July 29, 1953, to Alfried Krupp von Bohlen und Halbach, doing business as Fried. Krupp, Essen, Germany. Steel and Iron Plates, Bars, Sheet-Steel, Etc. Class 14.

92,973. KRUPP. Registered Aug. 12, 1913. Fried. Krupp Aktiengesellschaft. Re-renewed Aug. 12, 1953, to Alfried Krupp von Bohlen und Halbach, doing business as Fried. Krupp, Essen, Germany. Machine-Shafts, Crank-Shafts, Straight Shafts, Etc. Class 23.

93,346. KRUPP. Registered Sept. 9, 1913. Fried. Krupp Aktiengesellschaft. Re-renewed Sept. 9, 1953, to Alfried Krupp von Bohlen und Halbach, doing business as Fried. Krupp, Essen, Germany. Vehicle Tires, Wheels, Axles, Shafts, and Springs. Class 19.

93,995. HOUGHTON'S. Registered Oct. 28, 1913. E. F. Houghton & Co., Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed Oct. 28, 1953. Carbonizing Compounds; Disinfectants; Compounds for Preventing Oxidation, and Soluble Tallow Compound. Class 6.

94,638. HOUGHTON'S. Registered Dec. 23, 1913. E. F. Houghton & Co., Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed Dec. 23, 1953. Lubricating Oils; Lubricating Greases; Tempering Oils; Metal Cutting Oils; and Wood Oils. Class 15.

94,719. "FOR BEAUTY, FINISH, AND UTILITY, THIS SAW CANNOT BE EXCELLED" ETC. Registered Dec. 30, 1913. Henry Disston & Sons, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Dec. 30, 1953. Saws. Class 23.

292,364. "ALL-WRIGHT CHICKS" AND DRAWING LINED FOR RED. Registered Mar. 15, 1932. Wright Farm & Hatchery. Renewed Mar. 15, 1952, to Maurice O. Shoemaker, doing business as Wright Hatcheries, Peebles, Ohio. Live Baby Chicks. Class 1.

301,438. SPANDIT. Registered Feb. 28, 1933. H. G. Miles Limited, London, England. Renewed Feb. 28, 1953, to H. G. Miles Limited, Dunstable, England, a limited stock company organized under the laws of England. Device in the Form of a Flexible Strap or Band To Facilitate the Carrying of Articles. Class 3.

304,349. DURON. Registered July 4, 1933. Brake Linings Limited, Buxton, England, a company organized under the laws of Great Britain. Renewed July 4, 1953. Brake Linings. Class 35.

304,477. OCCO. Registered July 11, 1933. Orange-Crush Company, Chicago, Ill., a corporation of Illinois. Renewed July 11, 1953. Nonalcoholic, Noncereal and Maltless Beverages and Syrups, Compounds and Concentrates for Making the Same. Class 45.

304,481. CHEVRON. Registered July 11, 1933. Richard Hudnut, assignor to Chevron, Ltd. Renewed July 11, 1953, to Richard Hudnut, New York, N. Y., a corporation of New York. Shaving Cream. Class 51.

304,533. ANOTEX. Registered July 11, 1933. American Anode Inc. Renewed July 11, 1953, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York. Surgeon's Rubber Gloves. Class 44.

304,534. ANODE. Registered July 11, 1933. American Anode Inc. Renewed July 11, 1953, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York. Surgeon's Rubber Gloves. Class 44.

304,536. ANODEX. Registered July 11, 1933. American Anode Inc. Renewed July 11, 1953, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York. Surgeon's Rubber Gloves. Class 44.

304,543. "DEFENDER" AND DESIGN. Registered July 11, 1933. United Drug Company, Boston, Mass. Renewed July 11, 1953, to Rexall Drug Company, Los Angeles, Calif., a corporation of Delaware. Household Rubber Gloves. Class 39.

304,651. ANOTEX. Registered July 11, 1933. American Anode Inc. Renewed July 11, 1953, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York. Rubber Toy Balloons. Class 22.

304,652. ANODE. Registered July 11, 1933. American Anode Inc. Renewed July 11, 1953, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York. Rubber Toy Balloons. Class 22.

304,654. ANODEX. Registered July 11, 1933. American Anode Inc. Renewed July 11, 1953, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York. Rubber Toy Balloons. Class 22.

304,773. ELMARID. Registered July 18, 1933. Fried. Krupp Aktiengesellschaft. Renewed July 18, 1953, to Alfried Krupp von Bohlen und Halbach, doing business as Fried. Krupp, Essen, Germany. Metallic Carbides and Their Alloys. Class 14.

304,845. LOGGERS-OAK. Registered July 18, 1933. S. H. Frank & Company, San Francisco, Calif., a corporation of California. Renewed July 18, 1953. Sole Leather. Class 1.

304,964. FLI-BACK. Registered July 25, 1933. Rosena M. Gibson, doing business as Fli-Back Company. Renewed July 25, 1953, to The Fli-Back Company, Inc., High Point, N. C., a corporation of North Carolina. Toy, Said Toy Comprising a Board-Like Handle Having One End of a Rubber Strand Attached Thereto, Etc. Class 22.

304,969. SOCK-IT. Registered July 25, 1933. Rosena M. Gibson, doing business as Sock-It Company. Renewed July 25, 1953, to The Sock-It Company, Inc., High Point, N. C., a corporation of North Carolina. Toy, Said Toy Comprising a Board-Like Handle Having One End of a Rubber Strand Attached Thereto, Etc. Class 22.

305,014. DANDRFALL. Registered July 25, 1933. Lesma Products Co. Inc. Renewed July 25, 1953, to Associated Brands, Inc., New York, N. Y., a corporation of New York. Hair Tonics, Bay Rum, Skin Cream, Hair Restorer, Lilac Toilet Water, Eau de Quinine, Etc. Class 51.

305,121. ANODE. Registered Aug. 1, 1933. American Anode Inc. Renewed Aug. 1, 1953, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York. Household Rubber Gloves. Class 39.

305,180. RIALTO. Registered Aug. 8, 1933. American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia. Renewed Aug. 8, 1953. Safety Razors and Safety Razor Blades. Class 23.

305,282. PICKWICK. Registered Aug. 8, 1933. Saul H. Perry, doing business as Pickwick Ice Cream Company. Renewed Aug. 8, 1953, to The Pickwick Ice Cream Company, Stamford, Conn., a corporation of Connecticut. Ice Cream. Class 46.

305,496. "ENCRE" ETC. AND DESIGN. Registered Aug. 15, 1933. L. E. Waterman Company, New York, N. Y. Renewed Aug. 15, 1953, to Waterman Pen Company, Inc., Seymour, Conn., a corporation of New York. Writing Inks. Class 11.

305,602. "PED-FLEX PROCESS" AND DESIGN. Registered Aug. 22, 1933. The Florsheim Shoe Company, Chicago, Ill., a corporation of Illinois. Renewed Aug. 22, 1953. Shoes Made of Leather. Class 39.

305,735. ANODEX. Registered Aug. 22, 1933. American Anode Inc. Renewed Aug. 22, 1953, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York. Household Rubber Gloves. Class 39.

305,749. VANITY FAIR. Registered Aug. 22, 1933. Marcus & Wiesen Inc., New York, N. Y. Renewed Aug. 22, 1953, to Vanity Fair Mills, Inc., Reading, Pa., a corporation of Pennsylvania. Girdles. Class 39.

305,816. "MALCOLM FRASER'S" ETC. AND DESIGN. Registered Aug. 22, 1933. Wine & Spirit Vaults Limited, doing business as Malcolm Fraser & Co. Renewed Aug. 22, 1953, to Malcolm Fraser & Co. Limited, London, England, a company incorporated under the laws of Great Britain. Whisky and Other Potable Distilled Liquors. Class 49.

306,248. CONTINENTAL. Registered Sept. 12, 1933. Continental Blade Corporation, Brooklyn, N. Y., a corporation of New York. Renewed Sept. 12, 1953. Razors and Razor Blades. Class 23.

306,330. CREPE LAURETTE. Registered Sept. 12, 1933. Aronson-Caplin Company, Inc. Renewed Sept. 12, 1953, to Seamprufe Incorporated, New York, N. Y., a corporation of New York. Rayon Piece Goods. Class 42.

306,397. „KLINGERIT-1000". Registered Sept. 19, 1933. Rich. Klinger Aktiengesellschaft, Gumpoldskirchen, near Vienna, Austria, a corporation organized under the laws of Austria. Renewed Sept. 19, 1953. High Pressure Packings in Plates, Rings, and Form Pieces, Consisting of Asbestos, Etc. Class 35.

306,490. "THE FAMOUS GROUSE BRAND", ETC. AND DESIGN. Registered Sept. 19, 1933. Matthew William Gloag, doing business as Matthew Gloag & Son. Renewed Sept. 19, 1953, to Matthew Gloag & Son Limited, Perth, Scotland, a company incorporated under the laws of Great Britain. Whisky. Class 49.

306,603. B. V. D. Registered Sept. 26, 1933. The B. V. D. Company, Inc., Baltimore, Md. Renewed Sept. 26, 1953, to The B. V. D. Company, Inc., New York, N. Y., a corporation of Delaware. Handkerchiefs. Class 39.

306,875. BUDGET. Registered Oct. 3, 1933. Continental Blade Corporation, Brooklyn, N. Y., a corporation of New York. Renewed Oct. 3, 1953. Razors and Razor Blades. Class 23.

307,117. "SMACO" AND DESIGN. Registered Oct. 17, 1933. S. M. A. Corporation, Cleveland, Ohio. Renewed Oct. 17, 1953, to American Home Products Corporation, doing business as Wyeth Laboratories, Division of American Home Products Corporation, New York, N. Y., a corporation of Delaware. Cod Liver Oil, Solutions of Carotene in Oil, Vitamin Concentrates, and Maltose and Dextrin Preparations. Class 18.

307,538. THE FAMOUS UTICA BEER. Registered Oct. 31, 1933. The West End Brewing Co., Utica, N. Y., a corporation of New York. Renewed Oct. 31, 1953. Malt Beverages With Not More Than the Legal Alcoholic Content. Class 48.

307,815. AIRWAY. Registered Nov. 7, 1933. Dwight Edwards Company, San Francisco, Calif. Renewed Nov. 7, 1953, to Safeway Stores, Incorporated, Oakland, Calif., a corporation of Maryland. Coffee. Class 46.

308,108. ELMARID. Registered Nov. 21, 1933. Fried. Krupp Aktiengesellschaft. Renewed Nov. 21, 1953, to Alfried Krupp von Bohlen und Halbach, doing business as Fried. Krupp, Essen, Germany. Hand and Machine Tools for Working Metals, Wood, and Fabricated Materials—Namely, Turning and Planing Tools, Etc. Class 23.

308,421. TANAK. Registered Dec. 5, 1933. American Cyanamid & Chemical Corporation. Renewed Dec. 5, 1953, to American Cyanamid Company, New York, N. Y., a corporation of Maine. Synthetic Tanning Extract. Class 6.

308,473. OKAY TRED. Registered Dec. 5, 1933. E. F. Houghton & Co., Philadelphia, Pa., a corporation of Pennsylvania. Renewed Dec. 5, 1953. Leather Belting. Class 35.

308,474. VIM TRED-OAK. Registered Dec. 5, 1933. E. F. Houghton & Co., Philadelphia, Pa., a corporation of Pennsylvania. Renewed Dec. 5, 1953. Leather Belting. Class 35.

308,511. "K-6" ETC. AND DESIGN. Registered Dec. 5, 1933. Henry Disston & Sons, Incorporated, Tacony, Philadelphia, Pa. Renewed Dec. 5, 1953, to Henry Disston & Sons, Incorporated, Philadelphia, Pa., a corporation of Philadelphia. Saws. Class 23.

308,513. "LEADER" ETC. AND DESIGN. Registered Dec. 5, 1933. Henry Disston & Sons, Incorporated, Tacony, Philadelphia, Pa. Renewed Dec. 5, 1953, to Henry Disston & Sons, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania. Saws. Class 23.

308,777. OLD ECONOMY. Registered Dec. 19, 1933. Pennsylvania Distilling Co., Inc., Logansport, Pa., and Brooklyn, N. Y. Renewed Dec. 19, 1953, to Joseph S. Finch and Company, Schenley, Pa., a corporation of Pennsylvania. Whisky. Class 49.

308,807. IGLOO. Registered Dec. 19, 1933. Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Renewed Dec. 19, 1953. Storage Batteries. Class 21.

308,958. "MARS ALMONETS" AND REPRESENTATION OF STAR. Registered Dec. 26, 1933. Mars, Incorporated, Chicago, Ill., a corporation of Delaware. Renewed Dec. 26, 1953. Candy. Class 46.

308,989. 66. Registered Dec. 26, 1933. Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Renewed Dec. 26, 1953. Automobile and Furniture Polish and Automobile Touch-Up Enamel. Class 4.

309,034. FERRITROL. Registered Dec. 26, 1933. E. F. Houghton & Co., Philadelphia, Pa., a corporation of Pennsylvania. Renewed Dec. 26, 1953. Pickling Compounds in Liquid and Powdered Form for Removing Scale From Steel. Class 52.

309,038. "LITTLE COLONEL" AND DESIGN. Registered Dec. 26, 1933. Rice Growers Association of California, Sacramento, Calif., a corporation of California. Renewed Dec. 26, 1953. Rice. Class 46.

309,174. DUPLEX. Registered Jan. 2, 1934. Toledo Scale Manufacturing Company. Renewed Jan. 2, 1954, to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey. Weighing Scales. Class 26.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

150,620. "TEXACO" AND DESIGN. Registered Jan. 3, 1922. The Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Petroleum, Asphalt Oils, Etc. Class 15. Amended as follows: In the statement, line 11, "and the circular border" is deleted, and the drawing is amended to appear as follows:



205,776. GHIRARDELLI'S. Registered Nov. 17, 1925. D. Ghirardelli Co., San Francisco, Calif. Chocolate, Candy, Cocoa, and Mustard. Class 46. Amended as follows: In the statement, line 9, after "candy," *and* is inserted; same line, "and mustard," is deleted; and the drawing is amended to appear as follows:

GHIRARDELLI

224,039. FORMA TROPIN. Registered Feb. 15, 1927. John T. Milliken & Company, St. Louis, Mo. Liquid Preparation Having Tonic, Diuretic, and Other Medicinal Qualities. Class 18 (formerly Class 6). The drawing is hereby amended to appear as follows:

FORMATROPIN

418,689. "FLANELAN" AND DESIGN. Registered Jan. 8, 1946. The Landers Corporation, Toledo, Ohio. Waterproofed and Water-Repellent Textile Fabrics of Cotton. Class 42. The drawing is hereby amended to appear as follows:

FLANELAN

523,426. HYDROTHERM. Registered Apr. 4, 1950. American Hydrotherm Corp., New York, N. Y. Heating Equipment—Namely, Heat Exchangers; Etc. Class 34. Amended as follows: In the statement, line 9, after "heat exchangers" *free of any combustion process* is inserted; and in line 10, after "water radiators" *for high temperature liquids above 220° F., for use in large buildings and in industrial and district heating systems* is inserted.

570,692. WEEKLY STAR FARMER. Registered Feb. 17, 1953. The Kansas City Star Company, Kansas City, Mo. Newspapers Issued Weekly. Class 38. Corrected as follows: In the statement, column 2, line 8, "172,601" should be *173,601*.

TRADE-MARK REGISTRATIONS CANCELED AND SURRENDERED

228,592. "CYMBALE TURQUE" AND DESIGN. Registered June 7, 1927. The Fred. Gretsch Mfg. Co., Brooklyn, N. Y. Cymbals. Class 36. Canceled Dec. 10, 1951. Canc. 5486.

351,588. PROTECTO TAG. Registered Nov. 2, 1937. Herman P. Knoble, doing business as The Florists Marketing Organization, Cleveland, Ohio. Combined Merchandising Tags and Labels. Class 37. Canceled Sept. 11, 1953. Canc. 6003.

354,815. KING LOUIS. Registered Feb. 22, 1938. Louis Miller, doing business as Louis Miller and Company, New York, N. Y. Men's Dress Shirts. Class 39. Canceled Sept. 11, 1953. Canc. 6040.

367,555. "F. R. #97" AND DESIGN. Registered May 23, 1939. Herb Juice-Penol Company, Inc., Danville, Va. Foot Preparation. Class 18 (formerly Class 6). Canceled July 29, 1953. Canc. 5962.

383,615. HEATHERBLOOM. Registered Dec. 17, 1940. Siegel Brothers, Kiki Maid Coats, Inc., New York, N. Y. Ladies' and Misses' Coats and Suits. Class 39. Canceled Sept. 11, 1953. Through Intf. 5003, Sec. 18.

546,459. HANDI. Registered Aug. 7, 1951. Handi Foods Company, Inc., Augusta, Ga. Frozen Chopped Beef in Moulded, Sliced Form. Class 46. Canceled Sept. 11, 1953. Canc. 6007.

556,904. BLU MYST. Registered Apr. 1, 1952. Wagner Fur, Inc., New York, N. Y. Furred Skins. Class 1. Canceled Sept. 11, 1953. Through Intf. 4937, Sec. 18.

556,905. GOLDEN BROWN MYST. Registered Apr. 1, 1952. Wagner Fur, Inc., New York, N. Y. Furred Skins. Class 1. Canceled Sept. 11, 1953. Through Intf. 4937, Sec. 18.

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

441,903. "JIFFY" AND DESIGN. Registered Jan. 25, 1949. The Hartford Element Company, Hartford, Conn. Replacement Electrical Elements. Class 21. New certificate under section 7(c) issued Oct. 13, 1953, to L. E. Whelan Co., Hartford, Conn.

574,131. READER REVIEWS. Registered May 5, 1953. TeleVision Guide, Inc., New York, N. Y. Column in a Periodical. Class 38. New certificate under section 7(c) issued Oct. 13, 1953, to Triangle Publications, Inc., Philadelphia, Pa., a corporation of Delaware.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 444,698. Registered June 24, 1952. (Classified in Class 52.) Chemical Manufacturing & Distributing Company, Easton, Pa. Republished by Lehigh Valley Chemical Company, Easton, Pa., a corporation of Pennsylvania.

See this number in Class 52 for goods and mark.

Claims use since Mar. 1, 1940.

CLASS 12

CONSTRUCTION MATERIALS

Reg. No. 256,502. Registered May 21, 1929. Harold Richard Hunt, Los Angeles, Calif. Republished by H. R. Hunt Putty Mfg. Co. Inc., Los Angeles, Calif., a corporation of California



The words "For Better" and "Putty" are disclaimed apart from the mark as shown.

For Putty.

Claims use since Nov. 5, 1928.

Reg. No. 308,005. Registered Nov. 14, 1933. Cement-Gun Company, Inc., New York, N. Y., and Allentown, Pa. Republished by Cement Gun Company, Allentown, Pa., a corporation of Delaware.

GUNITE

For Cementitious Material for Stack Construction and Repair, Zoological Dens, Cementitious Material for Surfacing and Backing of Dams, Gutters and Canals, Cement, Mortar, Concrete, Reinforced Concrete, Walls of Cementitious Material, Cement Floors, Cement and Concrete To Be Applied to Walls and Floors, Cement Building-Blocks, Chimneys, Cornices, and Moldings, Interior Partitions, Window and Door Sills, Cement Material for Incasing Steel Girders and Bridges, Cement Material for Protection of Metal Pipe, Concrete Slabs and Pipe, Roofing Slabs, Cement Coal-Bunker Linings, Stucco To Be Applied or Used on Brick, Tile, Lath and Other Wall Surfaces, Cement Linings To Be Applied in Mine-Shafts, Tunnels, and Cellars.

Claims use since about August 1914.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Reg. No. 235,267. Registered Nov. 15, 1927. Centrifix Corporation, Cleveland, Ohio, a corporation of Ohio. Republished by registrant.

CENTRIFIX

For Fluid Separators of the Fixed Type Without Moving Parts for Purifying or Separating Rapidly-Moving Fluids, Such as Oil, Water, Steam, Air, and Blast Furnace, Producer, Coke-Oven, City, or Natural Gas.
Claims use since May 1, 1924.

Reg. No. 442,791. Registered May 31, 1949. Centrifix Corporation, Cleveland, Ohio, a corporation of Ohio. Republished by registrant.



For Fluid Separators of the Fixed Type Without Moving Parts for Purifying or Separating Rapidly-Moving Fluids, Such as Oil, Water, Steam, Air, and Blast Furnace, Producer, Coke-Oven, City, or Natural Gas.
Claims use since 1926.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Reg. No. 303,812. Registered June 6, 1933. The Marietta Paint & Color Co., Marietta, Ohio. Republished by American-Marietta Company, Chicago, Ill., a corporation of Illinois.

GLOW TONE

For Water and Wear Resisting Finish for Interior Walls, Wood-Work, and Furniture.
Claims use since Nov. 1, 1929.

CLASS 17

TOBACCO PRODUCTS

Reg. No. 305,239. Registered Aug. 8, 1933. Larus & Brother Company, Richmond, Va., a corporation of Virginia. Republished by registrant.

DOMINO

For Plug Tobacco and Cigarettes.
Claims use since the year 1885.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 444,698. Registered June 24, 1952. (Classified in Class 52.) Chemical Manufacturing & Distributing Company, Easton, Pa. Republished by Lehigh Valley Chemical Company, Easton, Pa., a corporation of Pennsylvania.
See this number in Class 52 for goods and mark.
Claims use since Mar. 1, 1940.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 191,418. Registered Nov. 11, 1924. Vaughan Company, Chicago, Ill., a corporation of Illinois. Republished by registrant.

"Jim Vaughan"

For Electrically Operated Meat and Bone Cutting Machines.
Claims use since Feb. 15, 1924.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 304,241. Registered June 27, 1933. Standard Safety Razor Corporation, Wilmington, Del., and East Norwalk, Conn. Republished by Standard Blade Co., Inc., New York, N. Y., a corporation of New York.



The word "Blades" is disclaimed apart from the mark as shown.
For Razors and Razor Blades.
Claims use since June 2, 1930.

Reg. No. 304,301. Registered June 27, 1933. Standard Safety Razor Corporation, Wilmington, Del., and East Norwalk, Conn. Republished by Standard Blade Co., Inc., New York, N. Y., a corporation of New York.



The word "Blades" is disclaimed apart from the mark as shown.
For Razors and Razor Blades.
Claims use since Jan. 10, 1931.

Reg. No. 304,302. Registered June 27, 1933. Standard Safety Razor Corporation, Wilmington, Del., and East Norwalk, Conn. Republished by Standard Blade Co., Inc., New York, N. Y., a corporation of New York.



The words "Finest Blades" are disclaimed apart from the mark as shown.
For Razors and Razor Blades.
Claims use since June 2, 1930.

Reg. No. 318,718. Registered Oct. 30, 1934. The Sherman-Klove Company, Chicago, Ill., a corporation of Illinois. Republished by registrant.



The words "Tools" and "Chicago, U. S. A." are disclaimed apart from the mark as shown. The drawing is lined for red, black, and gold.
For Socket Wrenches, Socket Wrench Sets, and Sockets for Wrenches.
Claims use since on or about December 1932.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Reg. No. 436,634. Registered Feb. 17, 1948. The Lux Clock Manufacturing Company, Inc., Waterbury, Conn., a corporation of Pennsylvania. Republished by registrant.

WASHER MINDER

For Time Controlled Instruments to Shut Off Washing Machines.
Claims use since May 3, 1946.

CLASS 27

HOROLOGICAL INSTRUMENTS

Reg. No. 433,017. Registered Sept. 23, 1947. The Lux Clock Manufacturing Company, Inc., Waterbury, Conn., and elsewhere, a corporation of Connecticut. Republished by registrant, present address Waterbury, Conn.

OVEN MINDER

The word "Oven" is disclaimed apart from the mark as shown.
For Combination Clocks and Range Timers.
Claims use since May 3, 1946.

CLASS 37

PAPER AND STATIONERY

Reg. No. 410,557. Registered Dec. 5, 1944. The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin. Republished by registrant.

PLATHENIUM

For Pen Points of Precious Metal.
Claims use since June 14, 1943.

CLASS 39

CLOTHING

Reg. No. 40,815. Registered July 28, 1903. P. W. Minor & Son, Batavia, N. Y. Republished by P. W. Minor & Son, Inc., Batavia, N. Y., a corporation of New York.

TREADEASY

For Leather Boots and Shoes.
Claims use since February 1896.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 430,013. Registered June 3, 1947. Wawak Company, Inc., Chicago, Ill., a corporation of Illinois. Republished by registrant.

DREDMILL

For Woolen Piece Goods.
Claims use since Apr. 22, 1924.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Reg. No. 92,121. Registered June 17, 1913. C. C. Porter, Holdrege, Nebr. Republished by Coca-Cola Bottling Company, Holdrege, Nebr., a corporation of Nebraska.

KRAVEMOR

For Carbonated Beverages.
Claims use since January 1909.

Reg. No. 288,155. Registered Oct. 20, 1931. California Crushed Fruit Corporation, Los Angeles, Calif., now by change of name Mission Dry Corporation, Ltd. Republished by Mission Dry Corporation, Los Angeles, Calif., a corporation of Delaware.

MISSION

For Non-Alcoholic, Maltless Beverages Sold as Soft Drinks and Ginger Ale.
Claims use since Dec. 1, 1919.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 280,185. Registered Feb. 10, 1931. Theo. H. Davies & Co., Ltd., Honolulu, Territory of Hawaii, and San Francisco, Calif., a corporation organized under the laws of the Territory of Hawaii. Republished by registrant, present address Honolulu, Territory of Hawaii.

SUNNY SCENE

For Canned Peas.
Claims use since Aug. 10, 1930.

Reg. No. 373,678. Registered Dec. 19, 1939. Irene L. Johnson, doing business as Sun Gold Gardens, Indio, Calif. Republished by E. J. Codekas, Thermal, Calif.

SUN-GOLD

For Fresh Dates and Fresh Citrus Fruit.
Claims use since Mar. 1, 1924.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 312,491. Registered May 1, 1934. Marcella Flaster, doing business as The Theon Company, New York, N. Y. Republished by The Theon Company, Inc., New York, N. Y., a corporation of New York.

For Nail Polish.
Claims use since June 1932.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 424,321. Registered Oct. 1, 1946. The J. R. Watkins Company, Winona, Minn., a corporation of Delaware. Republished by registrant.

For Toilet Soap.
Claims use since Mar. 10, 1930.

Reg. No. 444,698. Registered June 24, 1952. Chemical Manufacturing & Distributing Company, Easton, Pa. Republished by Lehigh Valley Chemical Company, Easton, Pa., a corporation of Pennsylvania.

For Insecticides, Disinfectants, Deodorants, Pipe Coil and Drain Cleaners, Lye, and Germicides.
Claims use since Mar. 1, 1940.

REISSUES

OCTOBER 13, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

23,721
MULTIPLE GASEOUS FUEL BURNER AND SECONDARY AIR FEED BAFFLE

Charles A. Brown, St. Louis County, Mo., assignor, by mesne assignments, to International Oil Burner Company, St. Louis, Mo., a corporation of Missouri
Original No. 2,547,850, dated April 3, 1951, Serial No. 636,711, December 22, 1945. Application for reissue November 29, 1951, Serial No. 258,841
6 Claims. (Cl. 158—104)



5. A multiple gaseous fuel burner adapted for arrangement within the enclosing wall of the combustion chamber of a furnace and comprising a group of individual upstanding Bunsen type burner units each having an outwardly directed side face having a flame discharge opening adjacent only the upper end thereof, each burner unit having a gas and primary air inlet thereinto at its lower end, a deflector plate substantially covering the space between the rears of all of said burner units of said group and with its outer peripheral edge terminating sufficiently closely adjacent said discharge openings to form therewith horizontally directed secondary air passages above the level of all of said discharge openings, and a second deflector plate encircling the outer periphery of said group of burner units and of an horizontal area adapted to extend inwardly substantially from said enclosing wall of said combustion chamber and having an inner terminal edge spaced horizontally from said units and below said flame discharge openings to form with said burner units vertical secondary air supply passages that are below the level of said flame openings, whereby the flow of secondary air prevents impingement of the flames from their openings onto both of said deflector plates.

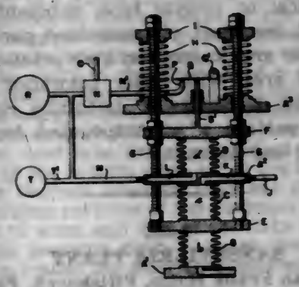
23,722
TRANSLUCENT METALLIC ENAMEL AND A PROCESS OF MAKING IT

Ralph E. Pike, Flint, Mich., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
Original No. 2,604,414, dated July 22, 1952, Serial No. 51,883, September 30, 1948. Application for reissue July 31, 1953, Serial No. 370,909
17 Claims. (Cl. 106—173)

1. A coating composition adapted to yield a tough, durable finish having a metallic appearance of great depth and brilliance comprising a vehicle and pigment, the said pigment consisting of A prime pigment selected from material of the group consisting of colloidal hydrous iron oxide and chromium tetrahydroxide; B *transparent* pigment substantially complementary in color to the said prime pigment in amount to yield a gray when mixed separately therewith; C at least one colored tinting pigment and D finely divided flake aluminum metal.

23,723
PRESSURE GAUGE

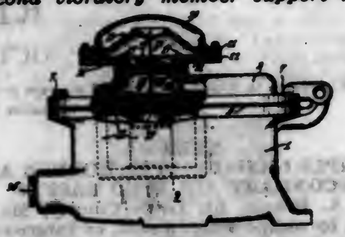
Aloysius F. Allwein, Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Original No. 2,527,171, dated October 24, 1950, Serial No. 720,201, January 4, 1947. Application for reissue October 19, 1951, Serial No. 252,020
6 Claims. (Cl. 73—393)



6. In a device of the class described, means for developing forces corresponding to a changing variable to be measured, adjustable mechanism for applying a selected force opposing said first-mentioned forces, means for supplying a pneumatically-controlled force opposing said first-mentioned forces, mechanism responsive to ambient temperatures serving also to apply forces corresponding to said temperatures in opposition to said first-mentioned forces to compensate for ambient temperature variations, a manually adjustable element for adjusting said adjustable mechanism, means for detecting any unbalance between the first-mentioned forces and the remaining forces, mechanism responsive to any unbalance detected by said detecting means for controlling the magnitude of the pneumatically-controlled force proportionally to the detected unbalance, and an instrument actuated in accordance with the pneumatically-controlled forces.

2,724
IMMERSIBLE ELECTRODYNAMIC LOUDSPEAKER
John D. Seabert, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Original No. 2,517,138, dated August 1, 1950, Serial No. 542,745, June 29, 1944. Application for reissue July 28, 1951, Serial No. 239,125
12 Claims. (Cl. 179—115.5)

12. In a signal translating apparatus, the combination of a fluid-tight casing comprising a pot and a cover adapted to be brought into fluid-tight relation with said pot, said pot and cover excluding the ambient, an electromechanical motor mounted within said pot, said motor including a first vibratory member, a second vibratory member carried by said cover on the outside thereof, said cover including a support for said second vibratory member, said first vibratory member being concealed within said casing, and said second vibratory member support having



apertures therein for exposing both sides of said last named vibratory member to the ambient, and means coupling said vibratory members to each other for movement in unison.

PLANT PATENTS

GRANTED OCTOBER 13, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,220
SANSEVIERIA PLANT
Sylvan Frank Hahn, Pittsburgh, Pa.
Application August 15, 1952, Serial No. 304,664
1 Claim. (Cl. 47—59)

A new and distinct variety of sansevieria plant of the spiral or rosette type, substantially as shown and described, characterized particularly by the silver gray coloration over practically the entire leaf area, with other coloration as described; and its ability to faithfully reproduce this color pattern when propagated from both suckers and leaf cuttings.

1,221
SANSEVIERIA PLANT
Sylvan Frank Hahn, Pittsburgh, Pa.
Application August 15, 1952, Serial No. 304,665
1 Claim. (Cl. 47—59)

A new and distinct variety of sansevieria plant of the spiral or rosette type, substantially as shown and described, characterized particularly by its narrow band of white to pale yellow coloration along the leaf margin, and its habit of faithfully reproducing this novel feature only when propagated by using suckers.

1,222
ROSE PLANT
Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York
Application October 9, 1952, Serial No. 313,996
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the large-flowered polyantha class, substantially as herein shown and described, characterized particularly as to novelty by the white color of its flowers, by its prolific production of cut-flowers when grown under greenhouse conditions, by the long-lasting quality of its flowers, and by its hardiness when grown out-of-doors.

1,223
ROSE PLANT
Hendrikus Antonie Maria Verschuren, Haps, Netherlands, assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York
Application October 6, 1952, Serial No. 313,379
1 Claim. (Cl. 47—61)

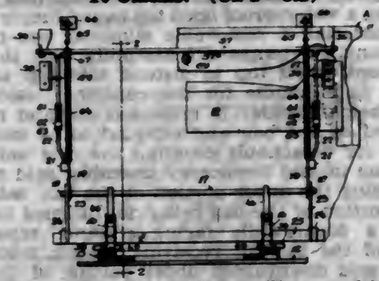
A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by the bright Spectrum Red color of its flowers, lightly overcast with Scarlet Red and suffused with Lemon Chrome at the base of the petals, by the quick repetition of growth, with the top eyes under the flowers breaking into long shoots even before the flowers are in full bloom, and by the long stems of the flowers, substantially as herein shown and described.

PATENTS

GRANTED OCTOBER 13, 1953

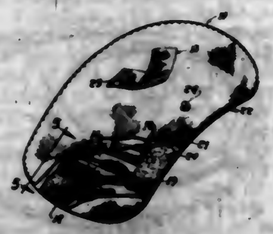
GENERAL AND MECHANICAL

2,654,896
NAILING MACHINE ATTACHMENT
Jenness B. Frear, Altadena, Calif., assignor to Watkins Patents, Inc., Quincy, Ill., a corporation of Illinois
Application March 23, 1951, Serial No. 217,179
10 Claims. (Cl. 1—8.1)



1. In combination with a nailing machine having nailing chucks and a work table over which the parts to be nailed are moved and positioned beneath the nailing chucks, a form for receiving and maintaining the parts in their proper relation for nailing and having a plurality of upstanding abutments thereon and at the opposite sides of the form, an attachment mounted on the nailing machine and movable with the cross head of the nailing machine, a transverse member mounted on the machine and spaced stops adjustably mounted on said member and depending over the work table for engaging the abutments on the form and thereby intercepting and retaining the form in accurately located position beneath the chucks during each of the successive nailing operations or strokes of the machine.

2,654,887
LADY'S SHOULDER PROTECTOR
Kathleen L. Hookstratten, Whittier, Calif.
Application November 24, 1950, Serial No. 197,195
9 Claims. (Cl. 2—3)



2. A lady's shoulder protector comprising a body of flexible material to be interposed between a wearer's shoulder and a garment support strap, means for fastening the body to the strap with the strap extending thereacross in a predetermined direction, and a plurality of relatively stiff stay members carried by the body and extending thereacross transversely of said direction in which the strap is adapted to extend to spread the force exerted by the strap over an extended area of the shoulder, said stay members being separately formed and free for relative movement to conform to the contour of a wearer's shoulder.

2,654,888
DRESS SHIELD
William Samuel Brightman, St. Petersburg, Fla.
Application May 23, 1950, Serial No. 163,667
2 Claims. (Cl. 2—53)



1. A pad of the class described having a generally moon shape with top and bottom edges, and comprising a double-wall shield, each wall consisting of a single ply, means for securing said plies together at the top edge of the shield, the bottom edge of each ply remaining free and spaced-apart, an absorbent filler enclosed between the walls of the shield and a plurality of tabs carried outwardly by the said walls, some of said tabs being secured at the opposite corners of the moon-shaped pad along the top edge, and others of said tabs being secured at the medial portion of the bottom edge, all of the tabs having adhesive thereon whereby they are securable to the adjoining portions of the garment with which the pad is worn and one of the tabs at the bottom edge securing both walls of the shield together to retain the filler therebetween.

2,654,889
COLLAR STAY
Charles Andrew Deric, West Warwick, R. I.
Application July 9, 1951, Serial No. 235,811
3 Claims. (Cl. 2—132)



1. A collar stay comprising an elongated member having a flat strip relatively stiff core with a textile fabric covering tightly embracing said core, a collar-engaging pointed element at the end portion of said member with its point extending beyond the member and located between said covering and core in secure frictional engagement therewith, said element having a head positioned outwardly of the covering, and a narrow band tightly encircling said member and said element at the location of said head for additionally securing the said element in place.

2,654,890
GARTER BELT
Davida R. Trope and Flora Clar Mock, Beverly Hills, and Doris M. Levinson, Los Angeles, Calif.
Application February 26, 1951, Serial No. 212,782
1 Claim. (Cl. 2—396)



A garter belt comprising a pair of bands each having crossed portions adjacent the ends thereof permanently secured together to provide a closed loop and a pair of free end portions extending beyond the crossed portions outside the loop, the loops of said bands being adapted to engage opposite sides of a user's waist, one loop on each side, and said bands forming said loops adapted to extend from said sides obliquely across the front and back to the hip at the relatively opposite side of the user's body whereby said free end portions of the two bands may be disposed adjacent the respective legs of the user, hose supporters provided at the extremities of said free end portions, said loops crossing each other at front and rear points spaced downwardly from the waistline and being permanently secured together at their front and rear points of crossing, said points of crossing separating each loop into an upper waist engaging portion and a lower hip engaging portion disposed at the relatively opposite sides of the garter belt, and a pair of longitudinally curved triangular panels disposed at the opposite sides of the garter belt, each panel having an upper edge coextensive with and secured to the waist engaging portion of the adjacent loop and downwardly convergent edges coextensive with and secured to the hip engaging portion of the other loop.

2,654,891
MECHANICAL PRONATING AND SUPINATING WRIST
George B. Robinson, Napa, Calif.
Application July 2, 1952, Serial No. 296,979
4 Claims. (Cl. 3—12.4)
(Granted under Title 35, U. S. Code (1952), sec. 266)



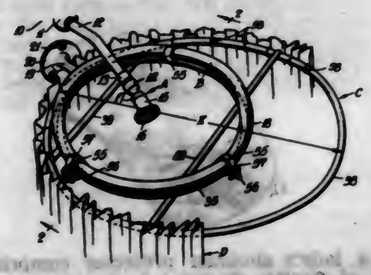
3. A prosthesis comprising an upper arm, a forearm articulated to said upper arm with an elbow bolt; a wrist mounted for rotation relative to said forearm about the longitudinal axis of said forearm; and means responsive to change of elbow angle for rotating said wrist about said axis, said last-named means including a lever arm fixed to rotate with said elbow bolt; a mechanism for pronating and supinating said wrist including a link pivoted to said forearm; a connecting rod pivoted to said lever arm and to said link; and means for alternatively fixing said lever arm against movement relative to said upper arm and against movement relative to said forearm.

2,654,892
RELIEF CONTAINER FOR AUTOMOBILES
Alexander Szabo, Perth Amboy, N. J.
Application July 20, 1950, Serial No. 174,235
1 Claim. (Cl. 4—110)



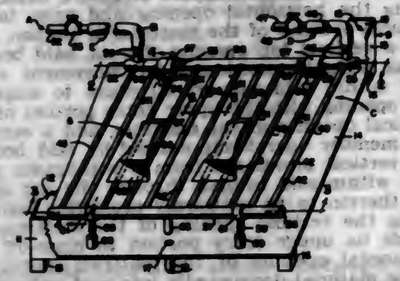
As a new article of manufacture, a portable emergency container for the uses described, comprising a water-proof open top bag of limply flexible material, a removable elliptical non-planar ring unit for temporary assembly with the bag adjacent to its top to distend said top and to serve as a handle for the container, said ring unit being circular in cross-section, and means carried by the bag and adapted to be manipulated for detachably coupling the ring unit and the bag in said temporary assembly, said means including the upper portion of the bag, said upper portion of the bag being downturned to provide a downwardly facing channel extending around the bag for receiving therein said ring unit, said downturned upper portion of the bag near the lower edge of said downturned portion incorporating a tunnel running around the bag and having an aperture, and a drawstring extending along said tunnel and having its end portions passed through said aperture to the outside of the bag, said ring unit having opposed half-sections with aligned end portions, said aligned end portions having axially disposed socket portions extending inwardly from their ends, and preformed elastic inserts having their ends inserted into adjacent socket portions for connecting said aligned end portions of the half-sections of the ring unit, said inserts being elastically biased to hold said half-sections extended upwardly and outwardly, said bag and ring unit constituting a transportable container.

2,654,893
SHOWER HEAD CURTAIN SUSPENSION ADAPTER
Candirus De Seranage, New York, N. Y.
Application July 5, 1951, Serial No. 235,271
4 Claims. (Cl. 4—154)



1. A shower ring curtain supporter enlargement adapter for attachment to a small-size shower curtain circular ring supporter comprising a small inside circular ring and a large outside circular ring and cross braces connecting the same, said large outside circular ring supporting the shower curtain and said small inside circular ring being connected to said circular ring support, said small inside circular ring and said large outside circular ring being in tangential contact and being welded together at the point of support of the curtain ring supporter and being formed of solid rod of smaller outside diameter and of less cross section than the shower curtain ring and said cross braces being welded to the lower faces of said small inside ring on the side away from said curtain ring and each brace having four points of contact with said small and large rings.

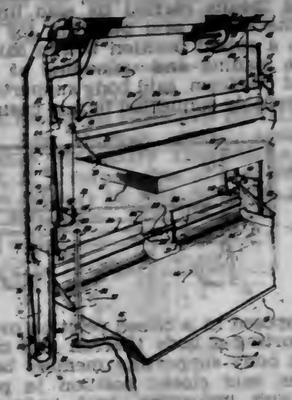
2,654,894
FOOT BATH
Charles M. G. Van Dijck, Antwerp, Belgium
Application March 14, 1952, Serial No. 276,610
4 Claims. (Cl. 4—182)



1. A foot bath including a stationary tub having a bottom wall provided with a tub drain port; rockable means within the tub to receive liquid and discharge the liquid into the tub including a plurality of spaced-apart rigid conduits; a foot sole-receiving member having an upwardly-extending portion provided with a pair of arcuate recesses accommodating portions of two adjacent conduits, a foot sole-receiving portion extending from an end thereof to form an obtuse angle and a portion extending downwardly from the other end thereof, disposed between said two adjacent conduits, and with its lower end resting upon said bottom wall; and means operable upon rocking of said rockable means to selectively open and close said port.

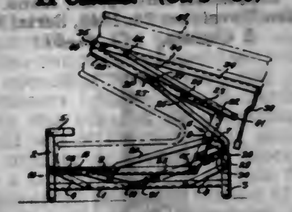
2,654,895
SLEEPING CAR SECTION
Clifford Brooks Stevens, Fox Point, Wis., assignor to Arnot Sleeper Corporation, Baltimore, Md.
Application August 11, 1948, Serial No. 43,641
7 Claims. (Cl. 5—9)

1. A folding berth for railroad cars and the like, comprising: a pan-like bed member; a carriage including a pair of end plates from which the bed member is adapted to be pivotally mounted, disposed adjacent to each end of the bed member and parallel to one another, and means holding said end plates in alignment with one another and with said bed member; a pair of vertical rails in guiding engagement with each of said end plates, enabling said carriage to travel vertically between defined limits, said pairs of rails being spaced apart a distance substantially equal to the length of the bed member; means mounting the bed member at its ends to said end plates, said means enabling said bed member to be swung from an operative horizontal position to an inoperative vertical position and allowing it to travel vertically with said carriage between said defined limits when in its inoperative position; means counteracting a substantial portion of the weight of said bed member and carriage to enable



the same to be pushed upwardly with slight effort; and means for readily detachably locking said carriage at each of said defined limits.

2,654,896
FOLDING FRAME FOR SOFA BEDS
Rudolph Coopersmith, Clayton, Mo.
Application September 19, 1949, Serial No. 116,463
11 Claims. (Cl. 5—36)



2. A folding sofa bed comprising a stationary frame, a mattress supporting frame section, means supporting said frame section for vertical movement with respect to said stationary frame, a second mattress supporting frame section pivotally connected to said frame and to said frame section, a third mattress supporting frame section pivotally connected to said second mattress frame section and foldable to a position above said frame section, a fourth mattress supporting frame section pivotally connected to said third mattress frame section; and a sectional mattress on said mattress supporting frame section, one section foldable between said frame section, said second, and third frame sections, the other section of said mattress disposed upon said fourth frame section and forming a support for sofa cushions when said frame and mattress are folded.

2,654,897
CORPSE-CONCEALING STRETCHER
George E. Knopf, Paterson, N. J.
Application November 6, 1950, Serial No. 194,262
2 Claims. (Cl. 5—96)

1. In a stretcher construction, a body supporting member, an undercarriage, a corpse-concealing casing interposed between said member and said undercarriage and having sides and an open top, said undercarriage having upwardly extending supports fixed to said casing for mounting the latter above said undercarriage, said casing having a platform slidably mounted

2,654,890
GARTER BELT
Davida R. Trope and Flora Clar Mock, Beverly Hills, and Doris M. Levinson, Los Angeles, Calif.
Application February 26, 1951, Serial No. 212,782
1 Claim. (Cl. 2—396)



A garter belt comprising a pair of bands each having crossed portions adjacent the ends thereof permanently secured together to provide a closed loop and a pair of free end portions extending beyond the crossed portions outside the loop, the loops of said bands being adapted to engage opposite sides of a user's waist, one loop on each side, and said bands forming said loops adapted to extend from said sides obliquely across the front and back to the hip at the relatively opposite side of the user's body whereby said free end portions of the two bands may be disposed adjacent the respective legs of the user, hose supporters provided at the extremities of said free end portions, said loops crossing each other at front and rear points spaced downwardly from the waistline and being permanently secured together at their front and rear points of crossing, said points of crossing separating each loop into an upper waist engaging portion and a lower hip engaging portion disposed at the relatively opposite sides of the garter belt, and a pair of longitudinally curved triangular panels disposed at the opposite sides of the garter belt, each panel having an upper edge coextensive with and secured to the waist engaging portion of the adjacent loop and downwardly convergent edges coextensive with and secured to the hip engaging portion of the other loop.

2,654,891
MECHANICAL PRONATING AND SUPINATING WRIST
George B. Robinson, Napa, Calif.
Application July 2, 1952, Serial No. 296,979
4 Claims. (Cl. 3—12.4)
(Granted under Title 35, U. S. Code (1952), sec. 266)



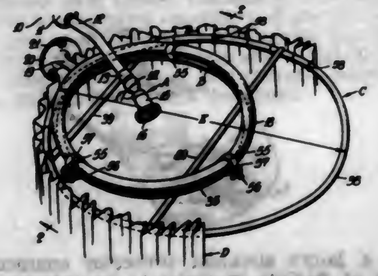
3. A prosthesis comprising an upper arm, a forearm articulated to said upper arm with an elbow bolt; a wrist mounted for rotation relative to said forearm about the longitudinal axis of said forearm; and means responsive to change of elbow angle for rotating said wrist about said axis, said last-named means including a lever arm fixed to rotate with said elbow bolt; a mechanism for pronating and supinating said wrist including a link pivoted to said forearm; a connecting rod pivoted to said lever arm and to said link; and means for alternatively fixing said lever arm against movement relative to said upper arm and against movement relative to said forearm.

2,654,892
RELIEF CONTAINER FOR AUTOMOBILES
Alexander Szabo, Perth Amboy, N. J.
Application July 20, 1950, Serial No. 174,835
1 Claim. (Cl. 4—110)



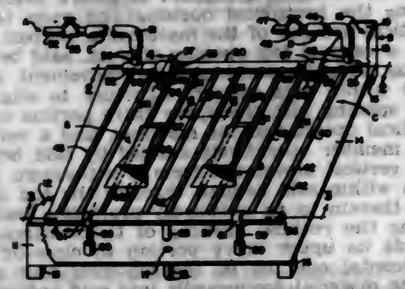
As a new article of manufacture, a portable emergency container for the uses described, comprising a water-proof open top bag of limply flexible material, a removable elliptical non-planar ring unit for temporary assembly with the bag adjacent to its top to distend said top and to serve as a handle for the container, said ring unit being circular in cross-section, and means carried by the bag and adapted to be manipulated for detachably coupling the ring unit and the bag in said temporary assembly, said means including the upper portion of the bag, said upper portion of the bag being downturned to provide a downwardly facing channel extending around the bag for receiving therein said ring unit, said downturned upper portion of the bag near the lower edge of said downturned portion incorporating a tunnel running around the bag and having an aperture, and a drawstring extending along said tunnel and having its end portions passed through said aperture to the outside of the bag, said ring unit having opposed half-sections with aligned end portions, said aligned end portions having axially disposed socket portions extending inwardly from their ends, and preformed elastic inserts having their ends inserted into adjacent socket portions for connecting said aligned end portions of the half-sections of the ring unit, said inserts being elastically biased to hold said half-sections extended upwardly and outwardly, said bag and ring unit constituting a transportable container.

2,654,893
SHOWER HEAD CURTAIN SUSPENSION ADAPTER
Candirus De Seramage, New York, N. Y.
Application July 5, 1951, Serial No. 235,271
4 Claims. (Cl. 4—154)



1. A shower ring curtain supporter enlargement adapter for attachment to a small-size shower curtain circular ring supporter comprising a small inside circular ring and a large outside circular ring and cross braces connecting the same, said large outside circular ring supporting the shower curtain and said small inside circular ring being connected to said circular ring support, said small inside circular ring and said large outside circular ring being in tangential contact and being welded together at the point of support of the curtain ring supporter and being formed of solid rod of smaller outside diameter and of less cross section than the shower curtain ring and said cross braces being welded to the lower faces of said small inside ring on the side away from said curtain ring and each brace having four points of contact with said small and large rings.

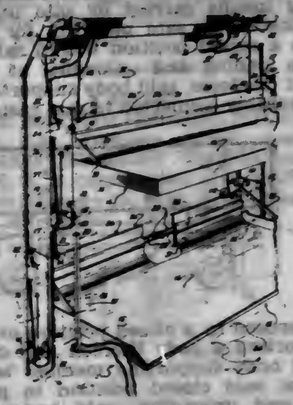
2,654,894
FOOT BATH
Charles M. G. Van Dijck, Antwerp, Belgium
Application March 14, 1952, Serial No. 276,610
4 Claims. (Cl. 4—182)



1. A foot bath including a stationary tub having a bottom wall provided with a tub drain port; rockable means within the tub to receive liquid and discharge the liquid into the tub including a plurality of spaced-apart rigid conduits; a foot sole-receiving member having an upwardly-extending portion provided with a pair of arcuate recesses accommodating portions of two adjacent conduits, a foot sole-receiving portion extending from an end thereof to form an obtuse angle and a portion extending downwardly from the other end thereof, disposed between said two adjacent conduits, and with its lower end resting upon said bottom wall; and means operable upon rocking of said rockable means to selectively open and close said port.

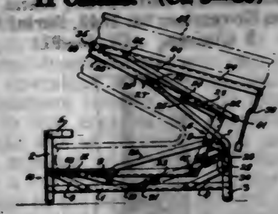
2,654,895
SLEEPING CAR SECTION
Clifford Brooks Stevens, Fox Point, Wis., assignor to Arnet Sleeper Corporation, Baltimore, Md.
Application August 11, 1948, Serial No. 43,641
7 Claims. (Cl. 5—9)

1. A folding berth for railroad cars and the like, comprising: a pan-like bed member; a carriage including a pair of end plates from which the bed member is adapted to be pivotally mounted, disposed adjacent to each end of the bed member and parallel to one another, and means holding said end plates in alignment with one another and with said bed member; a pair of vertical rails in guiding engagement with each of said end plates, enabling said carriage to travel vertically between defined limits, said pairs of rails being spaced apart a distance substantially equal to the length of the bed member; means mounting the bed member at its ends to said end plates, said means enabling said bed member to be swung from an operative horizontal position to an inoperative vertical position and allowing it to travel vertically with said carriage between said defined limits when in its inoperative position; means counteracting a substantial portion of the weight of said bed member and carriage to enable



the same to be pushed upwardly with slight effort; and means for readily detachably locking said carriage at each of said defined limits.

2,654,896
FOLDING FRAME FOR SOFA BEDS
Rudolph Coopersmith, Clayton, Mo.
Application September 19, 1949, Serial No. 116,443
11 Claims. (Cl. 5—36)



2. A folding sofa bed comprising a stationary frame, a mattress supporting frame section, means supporting said frame section for vertical movement with respect to said stationary frame, a second mattress supporting frame section pivotally connected to said frame and to said frame section, a third mattress supporting frame section pivotally connected to said second mattress frame section and foldable to a position above said frame section, a fourth mattress supporting frame section pivotally connected to said third mattress frame section; and a sectional mattress on said mattress supporting frame section, one section foldable between said frame section, said second, and third frame sections, the other section of said mattress disposed upon said fourth frame section and forming a support for sofa cushions when said frame and mattress are folded.

2,654,897
CORPSE-CONCEALING STRETCHER
George E. Knopf, Paterson, N. J.
Application November 6, 1950, Serial No. 194,362
2 Claims. (Cl. 5—96)

1. In a stretcher construction, a body supporting member, an undercarriage, a corpse-concealing casing interposed between said member and said undercarriage and having sides and an open top, said undercarriage having upwardly extending supports fixed to said casing for mounting the latter above said undercarriage, said casing having a platform slidably mounted

therein between said sides and constituting the bottom wall of said casing for supporting thereon a corpse for concealment within said casing, elevating means carried by said undercarriage and connected to said platform for raising the latter to a raised position within said casing to facilitate loading and unloading of said corpse onto said platform, said body supporting member being pivotably connected to said casing and nor-



mally disposed in a closed position over said top for supporting a body thereon and closing said top, said body supporting member being pivotable from said closed position to permit said loading and unloading, said body supporting member being equipped with masking material draped about said sides for masking said casing from view when said body supporting member is in said closed position.

2,654,896

MATTRESS WITH REINFORCED OPENING

De Merle E. Eckart, Abilene, and John R. Rosenleaf, Enterprise, Kans.

Application November 26, 1948, Serial No. 62,115
2 Claims. (Cl. 5—91)



1. A mattress for an invalid's bed, said mattress being formed with a substantially vertical opening therethrough constructed and arranged for the passage of a bed pan therethrough and having an upper mouth and a lower mouth, tubular, axially collapsible sleeve means defining perimetral walls for said opening, a first substantially rigid tubular element formed adjacent one end with outwardly projecting-perimetrally-arranged flange means, said element being located wholly within said sleeve means and laterally sustaining the latter, with its flange means disposed near the lower mouth of said opening and perimetrally outwardly distorting said sleeve means to anchor said element relative to said sleeve means, and said element projecting upwardly beyond a predetermined plane intermediate the upper and lower surfaces of said mattress, and a second substantially rigid tubular element formed adjacent one end with outwardly-projecting, perimetrally-arranged flange means, said second element being located wholly within said sleeve means and laterally sustaining the latter, with its flange means disposed near the upper mouth of said opening and perimetrally outwardly distorting said sleeve means to anchor said second element relative to said sleeve means, said second element projecting downwardly past said plane and being telescopically engaged with said first tubular element to provide for axial movement of said tubular elements, relative to each other.

2,654,899

HOSPITAL MATTRESS CONSTRUCTION

Anna Yacenia, Pittsburgh, Pa.

Application September 22, 1949, Serial No. 117,195
13 Claims. (Cl. 5—91)



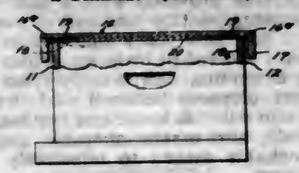
10. In a hospital mattress having a vertical opening therethrough provided with an upper entry portion and a horizontal opening extending transversely therethrough across the vertical opening and entrant from at least one side of the mattress, a support structure extending along the horizontal opening and open to the vertical opening of the mattress, a bedpan having a vertical top opening therein, said bedpan being slidably positioned for movement along and within said support structure to align its top opening with the upper entry portion of the vertical opening in the mattress, and a connector member operatively carried by said bedpan for vertical movement from a withdrawn position within said bedpan through the top opening therein to an outwardly-projecting position along the vertical opening of the mattress towards its upper entry portion to close-off the horizontal opening of the mattress and guide waste material downwardly into said bedpan.

2,654,900

VENTILATING COVER FOR BEEHIVES

Walter T. Kelley, Paducah, Ky.

Application January 31, 1950, Serial No. 141,550
2 Claims. (Cl. 6—1)



1. As a new article of manufacture, a ventilating cover for a bee hive, comprising a rectangular panel having a substantially uniplanar lower surface and having a length greater than the length of the hive with which it is used, and rails depending from opposed ends of said panel, said panel having equidistantly spaced recesses formed in its lower surface extending inwardly from said rails so as to admit air to the interior of the hive from both directions when the cover is centered on the hive, the recesses at one end of the panel being closed against air admittance when the cover is shifted endwise to move a rail into abutting relation with respect to an opposed side wall of the hive.

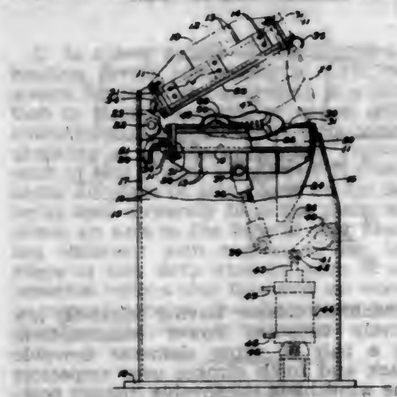
2,654,901

PRESSING APPARATUS FOR FOOTWEAR AND THE LIKE

Burton W. Morrison, Berbere, Mass., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application January 28, 1950, Serial No. 140,993
10 Claims. (Cl. 12—1)

5. A pressing apparatus for pressing articles which comprises an upper pressure chamber having an open bottom face, said chamber being rigidly secured in an inclined position, a lower pressure chamber having an open top face mating with the open face of said upper chamber, said lower chamber being pivotally mounted for rotational movement about an axis adjacent the lowermost portion of said inclined upper chamber to and from an open position in which the open face of said lower chamber is substantially horizontal and a closed position in which the open faces of said chambers are in substantially parallel opposing relationship, a compressible sealing means disposed along the extent of the margin of each said open face, a normally flat



thin flexible expansible elastic diaphragm disposed over the open face of each said chamber with the margin of said diaphragm overlying said sealing means, at least one relatively thin flexible expansible elastic reinforcing member disposed across a restricted zone of the outer pressing face of each said diaphragm, means for rotatably moving said lower chamber to and from said open and closed position, and means for introducing a fluid under pressure into said chambers while said chambers are in the closed position to press said diaphragms toward each other and to stretch them about the entire outer face of said article disposed therebetween.

2,654,902

STITCHDOWN LASTING MACHINE

Albert Spatola, New York, N. Y., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application June 23, 1947, Serial No. 756,399
1 Claim. (Cl. 12—7.5)



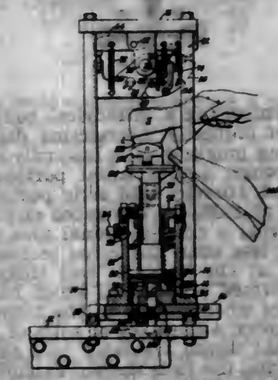
In a stitchdown lasting machine a pair of wipers pivotally mounted adjacent to the toe end of a shoe arranged in upright position in the machine, said wipers being constructed and arranged to operate on the toe portion of the shoe and on opposite side portions rearwardly to the heel end, a plate for supporting the forepart and the shank portion of a sole to be secured to the shoe, said plate having a recess in its upper surface at its heel end, a slide mounted in said recess and constructed and arranged to support the heel end portion of the sole, a shoe upper engaging member carried by the slide, and means for advancing said slide to bring said member into engagement with the heel end portion of the shoe in the machine thereby to advance the shoe toewardly into the wipers.

2,654,903

SHOE BOTTOM IRONING DEVICE

Forman N. Lee, Danvers, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application January 29, 1952, Serial No. 268,715
18 Claims. (Cl. 12—51)



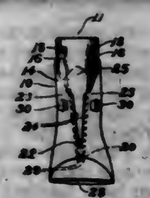
1. A device for use in ironing the shank and heel-seat portions of the bottoms of shoes comprising a heel-ironing block provided with a generally flat operating surface, two sets of shank-ironing members hinged to said ironing block, adjacent to one edge of its operating surface, each of said sets of shank-ironing members including a number of articulated blocks shaped to provide a curved operating surface forming a continuation of the operating surface of the heel-ironing block, and means associated with said heel-ironing block and said sets of shank-ironing members for causing the generally flat operating surface of the heel-ironing block and the curved operating surfaces of said sets of shank-ironing members to conform to the shape of the flat heel seat and curved shank portion of a shoe, in response to pressure of the shoe bottom against said surfaces.

2,654,904

FOOTWEAR LAST AND METHOD OF ASSEMBLY THEREON

Leslie H. L'Hollier, Newton, Mass., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application June 20, 1951, Serial No. 232,542
10 Claims. (Cl. 12—141)



1. A last for footwear comprising a body member having the general contour of an article of footwear, and at least one relatively rigid elongated restraining member extending externally

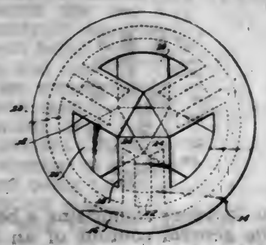
along the face of said body member from its upper portion to its lower portion, each end of each said restraining member being detachably secured to said body member.

2,654,905
BRUSH
George K. Davis, Jr., Long Beach, Calif.
Application September 10, 1947, Serial No. 773,285
1 Claim. (Cl. 15—198)
(Granted under Title 35, U. S. Code (1952), sec. 266)



A brush comprising a cylindrical body having a plurality of mutually intersecting diametrical slots extending longitudinally inwardly from one end and through a substantial portion of the length thereof whereby said body portion is divided into a plurality of elongated circular sectors each having a cross-sectional area which is substantially less than the cross sectional area of the body at the opposite end thereof, said body being formed of material which has spring characteristics when shaped in the form of said elongated sectors, a plurality of tufts of resilient brush material woven yieldably into said slots, said tufts having the ends thereof extending substantially radially of the body and having the intermediate portions thereof bighted within adjacent slots, the bights of said brush tufts bearing against each other in back-to-back relation within said body, a pre-formed annular groove on the exterior of said body near said first-mentioned end thereof and interrupted by said slots, said groove having a rectangular cross section, and a retaining snap ring releasably seated in said interrupted groove for holding said tufts in said slots, said ring having a rectangular cross section matching that of the groove for free seating of the ring therein, said ring being rigid and having an inner diameter approximately equal to the diameter of the body at the bottom of said groove and less than the exterior diameter of the body between the groove and said end of the body adjacent thereto both before and after the ring is seated in the groove, said segments and tufts being yieldably compressible to permit slipping of the ring onto the exterior surface of the body followed by snap action movement of the ring into the groove.

2,654,906
DRILL PIPE WIPER
Vernon H. Anderson, Hermosa Beach, Calif.
Application April 27, 1950, Serial No. 158,499
4 Claims. (Cl. 15—210)



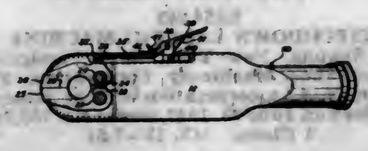
1. In a drill pipe wiper, a body having an open inner area, a set of wiper tongues of flexible material secured to said body and extending into said open area and a pair of laterally spaced resilient stiffeners carried by and extending longitudinally of at least some of said tongues on opposite sides of the center lines of the tongues.

2,654,907
WINDSHIELD CLEANER
Arthur C. Allen, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application August 19, 1949, Serial No. 111,270
20 Claims. (Cl. 15—253)



17. A windshield cleaner having relatively low and relatively constant power consumption, comprising a pair of wiper elements movable through back and forth strokes over respective areas of the windshield, a movable linkage positively interconnecting the wiper elements to position the latter a fraction of a stroke apart, and a single power operated motor means for moving the linkage to move the wiper elements simultaneously, with one element out of phase with the other by said fraction of a stroke.

2,654,908
CONVERTER FOR SUCTION CLEANERS
Harry B. White, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application February 28, 1951, Serial No. 213,207
11 Claims. (Cl. 15—337)



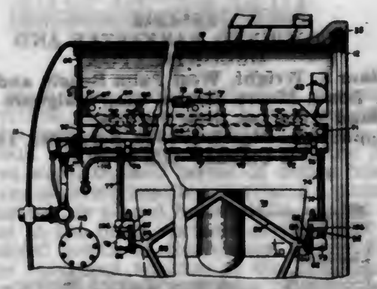
6. A converter comprising a tube having a first wall formed with an open ended opening to mate with the fan eye of a suction cleaner and a second wall spaced therefrom having a slot to form spaced legs to straddle the pulley shaft extending through the fan eye of the suction cleaner, a shutter pivoted to each of the inner edges of said legs adjacent the bight of said slot, said shutters having inner edges meeting on a line within said slot when in closed position, said edges being formed with mating notches to encompass the shaft extending through the fan eye, said first and second walls and said shutters being formed to close off the fan eye of a suction cleaner from the suction passageway thereof, a latch pivoted to said converter for locking it in the converter passage of a suction cleaner and linkage means connecting said latch to said shutters and operative to move said shutters away from each other as said latch is moved to unlatching position.

2,654,909
CARPET ANCHORING STRIP
John M. Paterson, Glendale, and George M. Paterson, Los Angeles, Calif.
Application September 6, 1950, Serial No. 183,448
7 Claims. (Cl. 16—16)



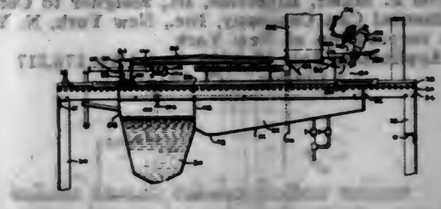
1. As a new article of manufacture, a carpet-holding device comprising a sheet metal strip, means for fastening said strip to a floor in position to underlie a piece of carpet adjacent and substantially parallel to an edge thereof, and a plurality of prongs upstanding from said strip, each of said prongs being severed from said strip along all edges of said prong except its base and being bent upwardly from the plane of said strip about an axis in the base of said prong extending obliquely with respect to the longitudinal edges of said strip whereby each of said prongs presents both a side face and an edge to carpet to oppose tension in said carpet exerted in a direction transverse to said strip.

2,654,910
APPARATUS FOR MANUFACTURING FLOOR MATS
Angus McDonald, Pontiac, Mich., assignor to Baldwin Rubber Company, Pontiac, Mich., a corporation of Michigan
Application April 19, 1948, Serial No. 21,883
17 Claims. (Cl. 18—4)



1. In apparatus for curing a sheet of vulcanizable stock, a heating chamber having an opening, a hanger assembly supported in the chamber for movement into and out of the chamber through the opening in the latter, means continually urging the hanger assembly to a position within the chamber, selectively operable means for moving the hanger assembly through the opening in the chamber to a position exteriorly of the chamber against the action of the first named means, a form having a surface against which a sheet of vulcanizable material is adapted to be placed and means supporting the form on the hanger assembly with the supporting surface of the form in a substantially upright position, said last named means including pivots enabling swinging movement of the form from the substantially upright position to a substantially horizontal position.

2,654,911
AUTOMATIC MOLD CLEANING MACHINE
Edgar Y. Sharlip, Philadelphia, and Alvin P. Dunbrack, Springfield, Pa., assignors to The Dentists' Supply Company of New York, New York, N. Y., a corporation of New York
Application December 17, 1948, Serial No. 65,824
5 Claims. (Cl. 118—8)



5. In a mold washing machine, a conveyor comprising a plurality of closely spaced parallel rolls, a driving sprocket on one end of each of said rolls, said sprockets being staggered to form two rows of aligned sprockets with all of the sprockets of alternate rolls being positioned in one or the other of said rows, chain-belt means operable to drive said rows of sprockets, a spray apparatus for treating the surfaces of molds or mold parts passing along said conveyor, and a switch mechanism for controlling the operation of said spray apparatus and including an actuating member positioned between a pair of said rolls and projected above the top thereof for engagement with and actuation by said molds and mold parts.

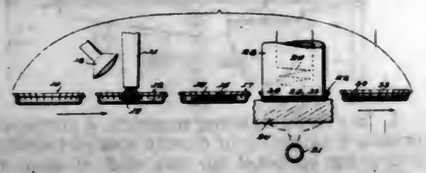
2,654,912
METHOD OF MAKING BLENDED TILE
Charles H. Burchenal, Cincinnati, Ohio, assignor to Cambridge Tile Manufacturing Company, Cincinnati, Ohio, a corporation of Ohio
Application July 28, 1948, Serial No. 41,057
1 Claim. (Cl. 18—46.2)



The method of making tile which comprises discharging a plurality of streams of differently colored dry powdered ceramic materials into a shaker box, mixing said stream sufficiently to blend the different colors and prevent stratification thereof, but not sufficiently to accomplish homogeneous admixture of the colors, and discharging the powder in the shaker box into a plurality of individual tile molds, compressing the powder into tile pieces and firing them, whereby an assemblage of individual tile pieces is provided, said individual tile pieces being like one another in that the color of each comprises an admixture of shades resulting from blending

of the constituting colors, but being different from one another in that the shades vary qualitatively and quantitatively from tile to tile.

2,654,913
ART OF MAKING CLOSURE SEALS BY MOLDING AND CURING
Curtis E. Maier, Riverside, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application July 27, 1950, Serial No. 176,217
5 Claims. (Cl. 18—59)



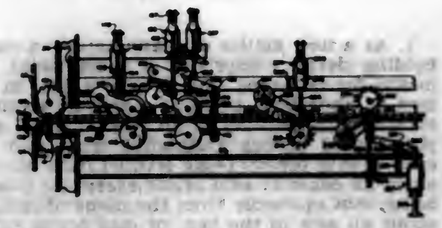
1. The method of forming sealing pads for closure seals, which comprises depositing in a closure shell having an internal lacquer coating, a measured quantity of a semi-liquid paste composition consisting for essential components thereof of a normally liquid plasticizer and a finely divided resin which is paste-forming with the plasticizer at a temperature below the fluxing temperature of the resin-plasticizer components, said composition being substantially free from vaporizable components and capable, upon being heated to the fluxing temperature of the resin-plasticizer components thereof and thereafter being cooled, of forming a permanent rubbery gel having essentially the same volume as said measured quantity, pressing a heated forming plunger into sealing relation with the shell and against the deposited material for shaping the same into a sealing pad of the desired contour, and maintaining said shaped pad under heat and pressure at a fluxing temperature until the shaped pad has adhered to the closure shell and the said resin-plasticizer components have fluxed together.

2,654,914
METHOD OF FORMING CLOSURE CAPS BY MOLDING AND PARTIALLY FLUXING A PASTE RESIN COMPOSITION WITH SUBSEQUENT FINAL FLUXING THEREAFTER
Curtis E. Maier, Riverside, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application July 27, 1950, Serial No. 176,218
8 Claims. (Cl. 18—59)



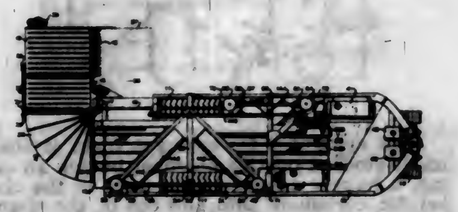
1. The method of forming sealing pads for closure seals, comprising discharging into a closure shell a quantity of a semi-liquid resinous material comprising particles of a resin dispersed in a fluid resin plasticizer, pressing a heated forming plunger against the material while the closure shell is on a heated support for shaping the material into a sealing pad, maintaining the heat and pressure until the materal adheres to the closure shell and has partially gelled into a shaped form-maintaining mass, and then disengaging the plunger and further heating the shaped mass until the material has become a cured essentially uniform mass.

2,654,915
DECORTICATOR
William E. Wright, West Palm Beach, Fla., assignor to Sea Island Mills, Inc., New York, N. Y.
Application June 18, 1946, Serial No. 677,537
58 Claims. (Cl. 19—11)



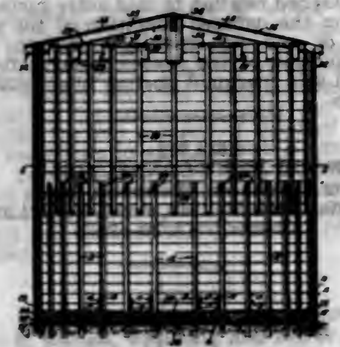
30. Ramie decorticating apparatus comprising a generally rectangular frame; carrier means mounted on said frame including a pair of upper and a pair of lower flexible members having guided flights intermediate the height of said frame and cross members spaced apart a distance slightly greater than the length of ramie stalks fed into said apparatus; and fiber cleaning means supported in said frame along said guided flights, said cross members being operative to clamp the butt end portions of ramie stalks and carry said stalks in a continuously clamped condition through said cleaning means.

2,654,916
COMBINED HARVESTER AND DECORTICATOR
William E. Wright, West Palm Beach, and Orson H. Bond, Moore Haven, Fla., assignors to Sea Island Mills, Inc., New York, N. Y.
Application March 9, 1948, Serial No. 13,918
8 Claims. (Cl. 19—12)



8. A decorticator for ramie comprising in combination a chassis, conveyer means constructed and arranged to convey ramie stalks to a feeding table on said chassis, means on said chassis for cleaning the upper portions of said stalks, a second means on said chassis for cleaning the butt end portions of said stalks, gripping means for engaging said stalks adjacent the butt ends thereof and for pulling the upper portions of said stalks through said first cleaning means, said gripping means comprising a pair of chains arranged vertically in the same plane and extending longitudinally of the chassis, the links of said chains being provided with resilient blocks whereby said ramie stalks will be gripped between opposing blocks on said chains, backing plates engaging said chains, resilient means yieldably holding said plates against said chains whereby said resilient blocks are held in engagement with said stalks, a second gripping means similar to said first gripping means for engaging said stalks at a point removed from the point of said first engagement and for pulling said butt end portions through said second cleaning means, ramie stripping means disposed adjacent the discharge end of said second gripping means and including co-operating means on said chain and stripping means to vibrate the latter upon movement of said chain whereby the ramie will be stripped from said blocks and power means on said chassis constructed and arranged to operate said gripping means and said cleaning means.

2,654,917
STORAGE BIN
Joseph Greaves, Teston, Mont.
Application May 9, 1951, Serial No. 225,515
3 Claims. (Cl. 20—1.2)



1. A grain storage bin comprising a concrete base, vertical studs mounted in and extending above the base, said studs being placed in a true circle, said bin including a wall consisting of at least two superimposed layers of siding boards, each layer of siding boards comprising a plurality of siding boards placed horizontally around and attached to the outer surfaces of the studs, the longitudinal joints of the boards in one layer being in staggered relation to the longitudinal joints of the boards in the next adjacent layer, and the ends of abutting boards of one layer being staggered vertically in respect to the ends of the boards of the adjacent layer.

2,654,918
WINDOW
Anthony G. Lemec, Plainfield, N. J.
Application March 26, 1949, Serial No. 83,549
5 Claims. (Cl. 20—42)

1. A window assembly of the class described comprising, in combination, a window frame, a pair of interconnected sliding sash superimposed in adjacent planes in the upper two thirds portion of said frame and adapted to be vertically moved to open and closed positions, a pivoting sash arranged in the lower one third portion of said frame and adapted to pivot inwardly of the frame and to close in contact with the window sill and an adjacent sliding sash, and sash clamps interconnecting said pivoting sash with said adjacent sliding sash and adapted to urge both of



said interconnected sliding sash into closed position.

2,654,919
SEALING STRIP
John T. Marvin, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 11, 1951, Serial No. 250,896
2 Claims. (Cl. 20—54.4)



1. A sealing strip adapted to seal and join two sheet-like parts, comprising, an elastomeric strip of substantial length having a pair of opposed longitudinal grooves therein one of said grooves being normally open when the strip is in free position, including a connecting portion therebetween, said grooves being adapted to receive the edge portions of said parts, a third longitudinal groove in said strip positioned between said two other grooves and having a width greater than the lateral dimension of said connecting portion to form narrow, relatively flexible longitudinal connecting portions with each of said other two grooves, the edges of said third groove overhanging the groove longitudinally toward one another, and a thin transversely springy molding strip wider than said third groove and having lips with overturned curved edges and adapted to be positioned in said third groove, and interlocked therein so as to stretch the elastomeric material of said narrow, relatively flexible longitudinally extending portions so as to force the strip into tight sealing relation with said parts whereby said one groove is forced closed.

2,654,920

INSULATED METAL WINDOW CLOSURE

Ward P. Kessler, near Bristol, Ind., assignor to Victor M. Langsett, Chicago, Ill., as trustee

Application May 27, 1950, Serial No. 164,643
7 Claims. (Cl. 20—56.5)



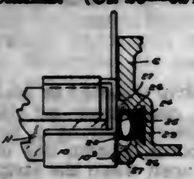
1. In a metal window closure structure, a main frame and sash, both said frame and sash having vertical and horizontal members, said members comprising an outer rigid metallic section, channel shaped in transverse cross-section, for exposure to the outside atmosphere, an inner rigid metallic section, channel shaped in transverse cross-section, for exposure to an atmosphere inwardly of the window, and a rigid heat insulating element comprising a sheet portion of laminated wood, having its opposite lateral margins disposed in the channels of said inner and outer sections, the channel legs of said sections being secured directly upon said element which supports said sections in spaced apart relationship to each other throughout their length.

2,654,921

WEATHER SEAL FOR JALOUSIE WINDOWS

Donn C. Blanchard, Miami, Fla., assignor to Edward L. Denison, North Miami, Fla.

Application January 8, 1953, Serial No. 330,320
4 Claims. (Cl. 20—62)



1. A weather seal for jalousie windows having opposed side jambs and a plurality of pivotally mounted panels extending between said side jambs, the said seal comprising, a groove provided in said side jambs, a recess provided in said side jambs in communication with said groove, and flexible and compressible weatherstripping for weather sealing contact with opposed ends of said panels, the said weatherstripping having a seating portion and a tubular head portion, the said seating portion being received in said groove and the said tubular head portion being received in said recess, the said recess being flared laterally outwardly of said groove a distance sufficient to permit the lateral rolling movement of said tubular head portion within said recess upon pivotal movement of said panels whereby to tend to prevent shearing of said weatherstripping.

2,654,922

INFLATABLE CLOSING STRIP FOR AIRCRAFT

Carroll P. Krupp, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application June 15, 1950, Serial No. 168,274
16 Claims. (Cl. 20—69)



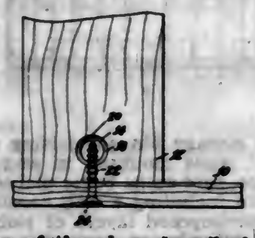
7. An inflatable strip comprising a distensible wall for mounting on a base so as to define therewith an inflating space, and a structure-engaging closing element mounted on said wall at the outer surface thereof and along the strip and having a marginal portion extending across said wall in a direction transversely of the strip and in overlying unattached relation to said outer surface of said wall in the deflated condition of the strip, that part of said wall directly underlying said marginal portion of the closing element flexing away from said marginal portion upon inflation of the strip.

2,654,923

WOOD JOINT CONNECTOR

Alvin L. Johnson, Worcester, Mass.

Application June 27, 1949, Serial No. 101,578
2 Claims. (Cl. 20—92)



1. A device of the class described comprising a split distortable band for insertion in a recess in a member forming a joint, said band having an opening therein removed from the split, in combination with a screw for penetration of the member and the band, said band being generally circular, the screw penetrating the band through the opening therein at a point removed from the split, said screw and contact of the band with a wall of the recess causing the band to be distorted and drawn in so that the edges thereof defining the split come into substantial contact, whereby the sides of the opening in the band grip the screw due to the distortion of the band.

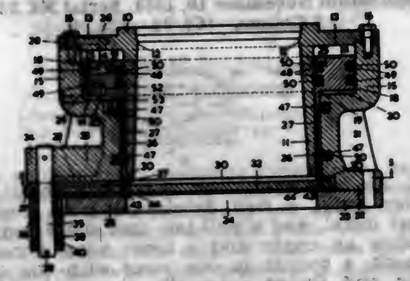
2,654,924

CLOSURE DEVICE FOR FEED CHAMBERS FOR FINELY DIVIDED MATERIALS

David Howard Weed, Barnt Green, and Herbert James Ree, Knowle, England

Application January 4, 1950, Serial No. 134,706
In Great Britain January 6, 1949
6 Claims. (Cl. 22—10)

1. Feed chamber assembly for the supply of pulverised and finely divided material to machines comprising in combination a feed chamber open at the top and having an exit opening at the bottom, an inner bore for said feed chamber which is conical and gradually increased in diameter from a part of minimum diameter within the upper end of the chamber to the exit opening thereof, a removable closure device for the exit opening of the feed chamber, a casting surrounding the exterior of the feed chamber and forming a means for supporting it and providing a surrounding base flange by which the feed chamber assembly can be secured to a machine, the surrounding casting having a bore of



two diameters both parts of which bore are spaced from the exterior of the feed chamber, the upper, larger diameter part forming the cylinder in which an annular piston is arranged and the part of smaller diameter accommodating a skirt extension of the piston, the lower end of which surrounds the exit opening of the feed chamber when the piston in said cylinder is forced down under pressure, the said skirt extension then bearing on the aforesaid removable closure device and in conjunction with that device making an airtight seal around the exit opening of the feed chamber.

2,654,925

PRECISION CASTING PROCESS

Elbert E. Ensign, Ypsilanti, and Royal Arch Van Patten, Garden City, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

Application June 23, 1950, Serial No. 170,006
5 Claims. (Cl. 22—193)



3. The process of producing a perforated gate plate comprising applying a layer of heat settable molding material to a heated plate having a perforation corresponding to the desired perforation in the gate plate, striking off said layer of molding material on said heated plate, further heating the combination of the heated plate and the struck off molding material to complete the cure of the molding material, and freeing the gate plate from the heated plate to produce a gate plate having a truncated conical perforation with its small diameter the same size as the plate perforation.

2,654,926

BINDING MEANS FOR CONTAINERS

Georges Delafosse, Courbevoie, France

Application October 8, 1949, Serial No. 120,243
In France August 25, 1949
4 Claims. (Cl. 24—16)

1. Binding means, comprising, in combination, an elongated endless band of flexible material; and an elongated strip of sheet metal fixed along the length thereof to said band, having a pair of opposite lugs located on opposite sides and adjacent an end thereof, said lugs extending from one side of said band, and said strip having an opposite free end portion adapted to be located



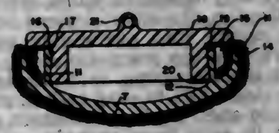
between said lugs when said strip is bent along a substantially central transverse line to shorten the length of said band, said lugs being foldable over said opposite free end portion of said strip to hold said free end portion between said lugs.

2,654,927

COVERED SEPARABLE BUTTON

Alex Tansman, New York, N. Y.

Application December 12, 1950, Serial No. 200,282
2 Claims. (Cl. 24—98)



1. In a separable flexible button, the combination of a back member having an integral clothing fastening means on one side, an annular flange integral with the other side having an outward flare at its outer beaded edge, a cup-shaped top member having an annular flange integral therewith separate from and within the outer edge of said top member and having an inward flare at its inner edge and a trench formed between said outer edge of said top member and said inner flange and an overlapping piece of fabric adhered to the convex surface of said top member with the overlap portions of said fabric extending into and adhered to the inner sides of said trench.

2,654,928

BUCKLE

Paul W. White, New Haven, Conn., assignor to Parva Products Company, Chicago, Ill., a corporation of Delaware

Application October 17, 1950, Serial No. 190,461
5 Claims. (Cl. 24—194)



1. A slide buckle comprising a pair of slidably engaged frames disposed in face-to-face relation, said frames having alignable strap-receiving openings therethrough, one of said frames having a front cross bar defining the front edge of said opening therein and including a portion inclined with respect to the path of relative movement of said frames, said inclined portion terminating in an abrupt shoulder extending substantially at right angles to said path of

movement, the other of said frames having a cross bar defining the rear edge of said opening therein and including a strap-engaging portion movable under said inclined portion into juxtaposition with said shoulder to clamp a strap against said inclined portion and said shoulder, said shoulder providing a positive stop to limit the clamping movement of said frames under excess tension, and guide means on said frames disposed substantially entirely rearwardly of said openings for slidably maintaining said frames in said face-to-face relation for sliding movement in said path whereby the clamping portion of said frames forwardly of said guide means are unrestrained against limited lateral separation when the strap is tensioned.

2,654,929

SEPARABLE CONNECTOR FOR BRACELETS AND THE LIKE

Hans J. Feibelman, Providence, R. I.

Application May 19, 1950, Serial No. 163,066
2 Claims. (Cl. 24—201)



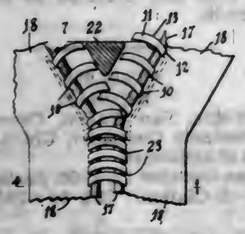
1. A separable connection for an article of jewelry comprising two elements, one element having a non-magnetic top, a steel plate fixed to said top and having its edges spaced from the edges of the top, the other element having a non-magnetic casing with upstanding walls adapted to seat over the top magnetic plate, and a magnetic part in said casing, said magnetic part including a steel shell in said casing, an insulating liner in said shell having a through passage and a magnet in said liner opening seated on said steel shell and adapted to contact the top steel plate, said first element having a downwardly extending tongue and said second element having a recess for receiving said tongue.

2,654,930

SLIDE FASTENER

Gregor H. Rakowitzky, Kings County, N. Y.; Eli Rakowitzky, administrator of said Gregor H. Rakowitzky, deceased

Application August 17, 1949, Serial No. 110,845
5 Claims. (Cl. 24—205.13)



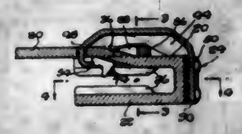
1. In a slide fastener, a pair of stringers and fastener elements secured alternately to respective stringers in predetermined spaced relation on said stringers, each of said elements having a convex and concave surface of equal radius, the maximum thickness between the curved surfaces being equal to one-third of the said radius, the distance between proximate elements of said stringer being equal to one-half of the said radius, the adjacent elements in closed position of the fastener have a clearance therebetween equal to one-twelfth of said radius, said clearance permitting a parting movement between stringers limited by the abutment of the proximate curved surfaces of adjacent fastener elements, and each of said elements having means to engage the stringer to which it is not attached to prevent a lateral movement of said element when the fastener is closed.

2,654,931

SLIDE FASTENER

Maurice Veity, Manhasset, N. Y., assignor to Serval Slide Fasteners, Inc., Flushing, N. Y., a corporation of New York

Application November 10, 1951, Serial No. 255,795
2 Claims. (Cl. 24—205.14)



1. An automatic lock slider consisting of a slider body, a bail fabricated from resilient sheet metal, and a pull tab, said slider body including an upper and a lower wing joined by a neck, a tongue in one piece with the upper wing and sloped outwardly therefrom toward the single exit end of the slider, the sides and tip of the tongue being free of said wing, there being openings in the upper wing on opposite sides of the tongue, said neck having a trough extending in a direction between the wings, said bail comprising an elongated top wall overlying the tongue, a finger integral with and extending away from an end of the top wall, the tip of said finger being hooked and disposed beneath and spaced from the tip of the tongue, said bail also including a tail integrally extending away from the opposite end of the top wall, said tail including an indentation, the tail being received in the trough and stressed to bias the bail toward the upper wing, the walls of said trough engaging the indentation whereby to captively embrace the tail, said bail having a pair of flanges in one piece with the top wall and extending downwardly toward the slider body, the bottom edges of said flanges being biased by the tail into abutment with the top surface of the upper wing, each of said flanges including a locking pin, said pins projecting through the openings in the upper wing and being biased by the tail into engagement with slide fastener elements of a stringer extending through the slider body, the bottom edges of said flanges having notches, the forward portion of the upper edge of each notch being sloped towards the upper wing, said pull tab having a solid bar captively held in the notches between the bail and the upper wing, said solid bar riding against the sloped tongue and the sloped notch portions when the pull tab is urged in an opening direction whereby to lift the pins out of engagement with slide fastener elements, the disengaging movement of the bail being limited by engagement between the tips of the finger and tongue.

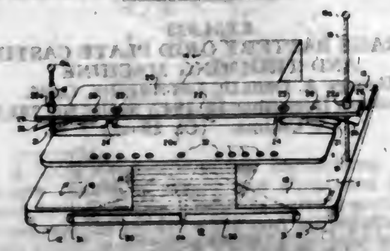
2,654,932

SHEET CLAMPING DEVICE

Wayne F. Goudie, Kenosha, Wis., assignor to Devere Company, Racine, Wis., a corporation of Wisconsin

Application October 5, 1948, Serial No. 52,913
3 Claims. (Cl. 24—243)

1. A sheet clamping device, comprising a base, a rigid clamping head cooperable with said base to clamp sheet material therebetween and including a longitudinally extending top rib having a pair of spaced cross ribs thereon, a pair of resilient guide rods extending up from said base, a resilient cross bar having openings for receiving said guide rods and guided for vertical movement by said guide rods, means for securing said cross bar to said cross ribs, whereby said cross bar is deformed about said cross ribs in response



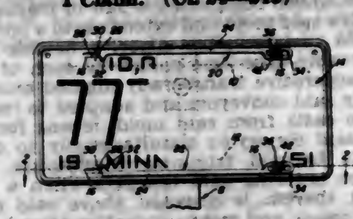
to the application of clamping forces to the ends of said cross bar, means for maintaining the ends of said cross bar substantially perpendicular to the adjacent portions of said guide rods, and means for locking the ends of said cross bar to said guide rods when said cross bar is deformed, thereby to maintain said head in clamping position against a stack of sheets held by said base.

2,654,933

LICENSE PLATE FASTENING DEVICE

Elmer R. Hecht, Lakefield, Minn.

Application October 3, 1951, Serial No. 249,485
1 Claim. (Cl. 24—243)



A license plate attaching and securing device comprising an elongated member adapted to be superimposed against a license plate and to extend from one bolt accommodating slot to the other, said member being a flat bar having a lateral T-shaped head at one end and having its opposite end reduced in cross-section to provide a shank, said shank having a lateral detent, a clip slidably mounted on said shank and retained in its useful position on said shank by way of said detent, said clip having ears provided with aligned bolt receiving holes.

2,654,934

WATCH BRACELET END CONNECTOR

Ludwig Armbruster, Irvington, N. J., assignor to Forstner Chain Corporation, a corporation of New Jersey

Application January 27, 1950, Serial No. 140,843
2 Claims. (Cl. 24—248)



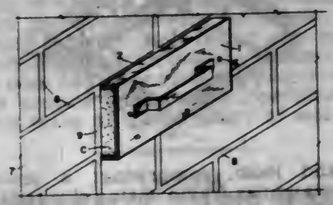
1. In an end connector for a metal bracelet or necklace having at least two strands of links relatively movable with respect to each other, a tubular base having sides tapering forwardly to receive the strand ends therein, an upper plate, and a lower plate, said upper plate having an opening positioned over the contiguous strand sides and a cover hinged to said base and having a depending projection tapering forwardly and adapted to extend through said opening and tapering forwardly for spreading the strand ends laterally apart, said projection having laterally positioned wedges at the rear thereof adapted to lock between adjacent links of the strands.

2,654,935

APPARATUS FOR APPLYING CEMENTITIOUS FINISH

Ronald Ager, Miami Beach, Fla.

Application December 6, 1951, Serial No. 260,176
1 Claim. (Cl. 25—1)



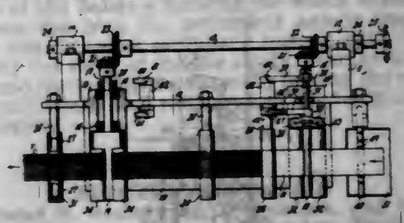
A manual tool of the character and for the purpose described, comprising an open-faced rectangular receptacle having a peripheral flange on three sides thereof and open along the fourth side thereof and forming a mold for the reception of a plastic mass, a separable flexible sheet received in the bottom of said receptacle and spaced along the peripheral marginal edges thereof relative to the inner periphery of said bottom, said sheet having an exposed face of predetermined surface texture adapted to impart said texture to the finished surface of said plastic mass abutting thereagainst, said bottom having a plurality of air vents to facilitate the expulsion of said mass and said sheet from said mold, and handle means carried by said mold on the exterior face of said bottom.

2,654,936

RIBBON RUBBER THREAD SPLITTER

David G. Slovin, Providence, R. I., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

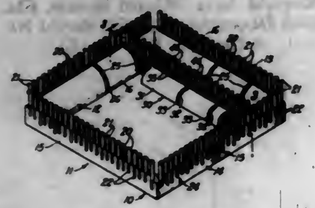
Application April 22, 1952, Serial No. 283,636
3 Claims. (Cl. 28—1)



1. Apparatus for splitting a tape composed of a plurality of rubber threads adhered to each other into its component threads, comprising a tape advancing drum having a roughened surface, a thread advancing drum having a roughened surface, means intermediate the drums for causing adjacent threads in the tape to follow divergent paths to thereby split the tape into its component threads, pivoted means adjacent each of said drums for maintaining said tape and said

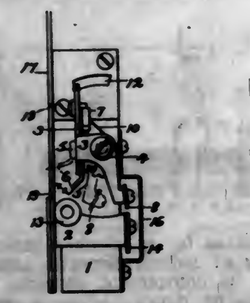
threads looped thereabout, a movable lever supporting said pivoted means whereby said pivoted means may be moved from said drums for easy threading of the apparatus, and means for driving said drums at different peripheral speeds, whereby said threads are delivered from said apparatus at a constant rate.

2,654,937
HAND LOOM
Keith J. Smith, Alhambra, Calif., assignor to Calcraft Company, Pasadena, Calif., a corporation of California
Application July 15, 1949, Serial No. 104,824
14 Claims. (Cl. 28—15)



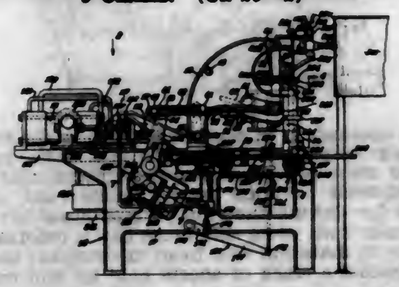
1. A hand loom, comprising: a one-piece, molded, rectangular frame having side rails, each of said rails having longitudinally spaced upstanding teeth formed integral therewith, opposite rails of said frame having integral, longitudinally extending support portions disposed inwardly of said teeth and provided with a plurality of horizontal seats; and at least one crossbar having longitudinally spaced, upstanding, integral teeth, said crossbar being insertable within said frame to extend transversely thereacross with its ends resting upon selected seats of opposite side rails of said frame, said side rails being of plastic material and integrally molded and being of substantially channel-shaped cross section, said integral teeth of said rails having laterally and outwardly projecting protuberances at their upper ends, said protuberances extending in planes transverse to said rails.

2,654,938
TEXTILE YARN CLEARER
Robert John Kennedy, Heaton, Bradford, England
Application August 23, 1951, Serial No. 243,304
In Great Britain March 17, 1949
11 Claims. (Cl. 28—64)



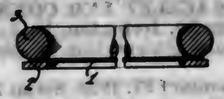
1. A textile clearer of the class described including a supporting bracket, a bar having a concave face connected to said bracket and over which the yarn passes, a member pivotally connected to said bracket above said concave face, said member having spaced front and rear clearing means to clear a passing thread of slubs or imperfections, said means being simultaneously operable and positioned a predetermined distance above said concave face so that when the front clearing means is moved away from the concave face the rear clearing means continues to prevent passage of faulty yarn.

2,654,939
STORAGE BATTERY GRID PLATE CASTING AND TRIMMING MACHINE
George A. Denath, Los Angeles, Calif.
Application December 15, 1947, Serial No. 791,766
9 Claims. (Cl. 29—2)



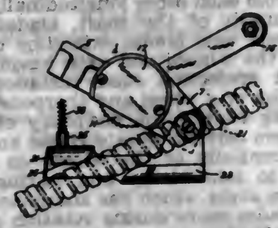
1. In a casting and trimming machine of the character described, a mold comprising separable matrix sections, a cast trimming mechanism comprising sections separable to form a cast-receiving space therebetween, and a mechanism for transferring casts from said mold to said trimming mechanism comprising a pair of tracks disposed below said mold and extending to a position above said cast-receiving space, a flexible conveyor movable upon and guided by each of said tracks, cooperative transversely aligned brackets carried by said conveyors and adapted to receive successive casts from said mold, means for advancing said conveyors simultaneously to carry said casts to said trimming mechanism, and means for lowering said brackets when a cast supported therein is disposed above said cast-receiving space, and means operative after a portion of a cast has been lowered into said cast-receiving space for inverting the associated ones of said brackets to release that cast therefrom and thereby deliver the cast into said trimming mechanism.

2,654,940
METHOD OF MOUNTING SCREENS FOR CATHODE-RAY TUBES
Harold B. Law, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 10, 1950, Serial No. 167,410
7 Claims. (Cl. 29—25.17)



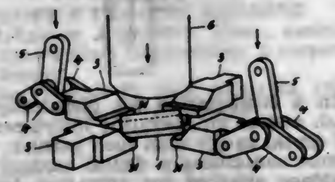
1. The method of making a screen unit for cathode beam tubes, comprising sandwiching the peripheral edge of a thin copper screen less than one thousandth of an inch in thickness between two nickel rings, welding said rings and screen periphery together, and heating said screen and rings at a temperature of 800° C. to 1000° C. for a time up to 10 minutes until said copper screen tightens, and cooling said screen and ring to ambient temperature.

2,654,941
FLEXIBLE-CONDUIT CUTTING TOOL
Floyd V. Schleimer, San Francisco, Calif.
Application January 15, 1951, Serial No. 206,113
5 Claims. (Cl. 29—69)



1. A flexible-conduit cutter comprising, a rotary-saw holder, a rotary saw supported thereby and having a portion of its cutting periphery exposed, means for rotating said rotary saw, and means for supporting a conduit against the exposed cutting periphery of said saw and with the longitudinal axis of said conduit in the plane of said saw, said means including a cradle having a conduit supporting section at one end and a conduit covering section at its other end in longitudinal spaced relationship to said supporting section to permit of the loading of a conduit therein, and means hingedly securing said cradle at its conduit supporting end to said rotary saw holder with the plane of said rotary saw coinciding with the median longitudinal plane of the cradle.

2,654,942
METHOD OF MAKING CUPPED SHELLS
Otto H. May, Schwabisch Gmund, Germany
Application June 28, 1950, Serial No. 170,728
1 Claim. (Cl. 29—148.2)



A method of making cupped shells, comprising in combination, the steps of cutting in cold condition a polygonal blank having an even number of sides and corners, respectively; pressing said corners inwardly in diagonal direction for deforming said corners into straight sides in cold condition of said blank while retaining the top and bottom faces of said blank substantially parallel so as to form a reshaped blank having twice as many substantially equal sides, and corners, respectively, as said blank; drawing the thus obtained reshaped blank in cold condition into a cupped shell; and flattening the projecting ears formed by the corners of said reshaped blank on the edge of the thus formed cupped shell.

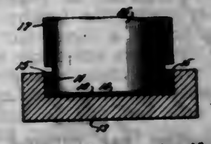
2,654,943
METHOD FOR THE MANUFACTURE OF IMPELLERS AND THE LIKE
Richard D. Campbell, Hartland, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application August 30, 1949, Serial No. 113,228
5 Claims. (Cl. 29—156.8)

1. In a process for manufacturing a centrifugal impeller, the steps of forming a hub member having a series of circumferentially spaced vanes projecting outward therefrom in symmetrical relation to the axis of rotation of said member and merging with a continuous vane tip encompassing ring coaxially disposed relative to said member, each said vane presenting axially oppositely facing edge surfaces; forming a pair of similar shroud elements each having a central portion merging with a radially outward projecting annular flange, said central portion and said flange presenting inner surfaces coextensively



complementary in contour to said edge surfaces of said vanes; positioning said shroud elements on opposite sides of said hub member, said inner surfaces of each of said shroud elements being disposed in edge abutting coextensive engagement with said oppositely facing edge surfaces of said vanes; fusably uniting the engaged portions of said edge and inner surfaces; and severing said ring to provide unobstructed openings between adjacent vanes at the periphery of said impeller.

2,654,944
METHOD OF MAKING GEARS
Jack Wilson, Chicago, Ill., assignor to Universal Railway Devices Co., a corporation of Delaware
Application April 10, 1950, Serial No. 154,949
2 Claims. (Cl. 29—159.2)

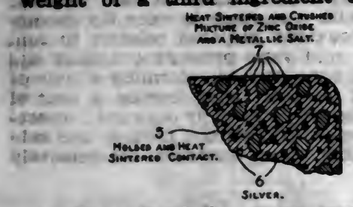


2. The process of making a toothed gear which includes forming a hollow cup-shaped metal blank in the form of a circular disk with a relatively high and thin circular flange upstanding from its periphery, quickly heating only said flange by electrical induction while the disk remains relatively cold, positioning the blank in a die cavity having on its inner periphery teeth complemental to the teeth to be formed on said gear, inserting into the hollow of the blank a plug having a side wall snugly fitting the flange and having a flat bottom surface engaging the disk and pressing it against the bottom of the die cavity, and then pressing down onto the upper edge of the flange a forming die which is sleeved around the plug for movement axially thereon and has its outer periphery formed with teeth fitting the teeth of the die cavity, thereby lowering and thickening the flange by forcing the metal thereof axially and radially into the teeth of the die cavity.

2,654,945
ELECTRICAL CONTACT
Linwood T. Richardson, Wauwatosa, and Merle R. Swinehart, Genesee Township, Waukesha County, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application October 11, 1948, Serial No. 53,774
8 Claims. (Cl. 29—182.5)

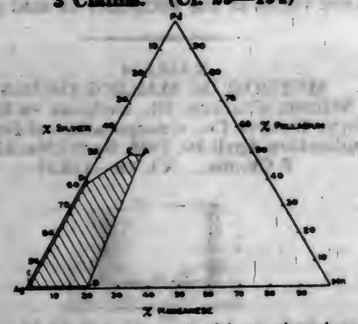
1. An electrical contact consisting of seventy-five per cent to ninety-five per cent by weight of silver, from twenty per cent to four and one-half per cent by weight of zinc oxide, and from

five per cent to one-half of one per cent by weight of a third ingredient consisting of a



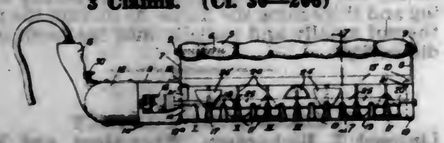
metallic salt of the group composed of silver iodide, silver chloride and silver bromide.

2,654,946
SOLDERED JOINT FOR CHROMIUM ALLOY GAS TURBINE STRUCTURES
Edwin Clements Rhodes, London, and David Wade Rhys, Hounslow, England, assignors to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware
Application September 7, 1950, Serial No. 183,522
In Great Britain September 9, 1949
3 Claims. (Cl. 29—194)



2. A fabricated gas turbine structure used under conditions of service at high temperatures of the order of about 550° C. to about 850° C. and characterized by high mechanical strength, highcreep resistance and high scaling resistance within said temperature range comprising a plurality of structural parts composed of a chromium alloy of the group consisting of nickel-chromium and nickel-chromium-iron alloys united by a solder joint of a silver-palladium-manganese alloy defined by the area A—B—C—D—E in the accompanying drawing.

2,654,947
HEDGE CLIPPER
Bartholomew De Stefano, City Island, N. Y.
Application August 27, 1952, Serial No. 306,557
3 Claims. (Cl. 30—206)



1. A hand operated foliage clipper comprising an elongated handle having front and rear ends, a frame under said handle extending longitudinally thereof and supported at front and rear ends from ends of the handle, bearings at front and rear ends of the frame, a shaft extending longitudinally of said frame between and rotatably mounted through said bearings and at its rear end projecting from the rear bearing, a motor mounted in rearwardly spaced relation to the rear end of said frame and constituting an auxiliary handle for the clipper, a chuck extending forwardly from said motor towards the rear end of the frame and gripping the rear end of said bearings and turning with said shaft and spaced from each other longitudinally of and circumferentially of the shaft, blades carried by said wheels, said blades extending circumferentially of the wheels and each having a straight end edge projecting equal distances from opposite sides of a wheel and sharpened side edges converging toward the periphery of the wheel, and fingers carried by said frame and extending circumferentially of the wheels in cooperating relation to said blades and having sharpened side edges along which the sharpened side edges of the blades move during rotation of the shaft and the wheels.

2,654,948
DENTAL CAVITY LINING DEVICE
Louis B. Rubin, Springfield Gardens, N. Y., assignor to Mizzy, Inc., New York, N. Y., a corporation of New York
Application May 26, 1950, Serial No. 164,215
6 Claims. (Cl. 32—1)



1. In a combination for dispensing a dental varnish and as an operating instrument for lining a dental cavity with such varnish, a collapsible tube containing a dental varnish, a needle assemblage adapted for affixation to said collapsible tube comprising a hub, a hub shank and a needle extending through said hub shank, the needle having a longitudinally extending bore that communicates with the interior of the collapsible tube, a container having a closure provided with an opening adapted to engage the aforesaid hub shank in removable sealed relationship, said container having means for filling the interior thereof with vapors of a solvent whereby the varnish in the needle is maintained in flowable condition.

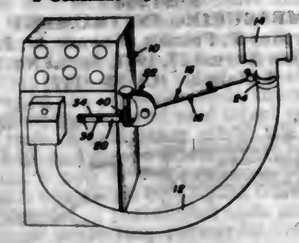
2,654,949
ARTIFICIAL TOOTH AND METHOD OF FORMING THE SAME
Joseph O. Whiteley, Jr., Menlo Park, Calif., and Carroll S. Fritz, York, Pa., assignors to The Dentists' Supply Company of New York, New York, N. Y., a corporation of New York
Application February 23, 1949, Serial No. 77,892
7 Claims. (Cl. 32—8)



4. An artificial tooth of composite synthetic resin, said tooth being composed of separately

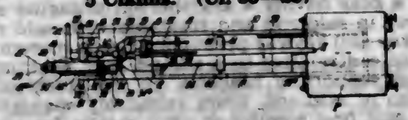
molded, pre-formed and fused enamel and body portions homogeneously bonded and compressed into a unitary mass.

2,654,950
SUCTION HOOD HOLDER
Bert J. Daigle, Sulphur, La., assignor of one sixty-fourth to Ellis Woody Thompson, Calcasieu Parish, La.
Application May 1, 1952, Serial No. 285,494
4 Claims. (Cl. 32—58)



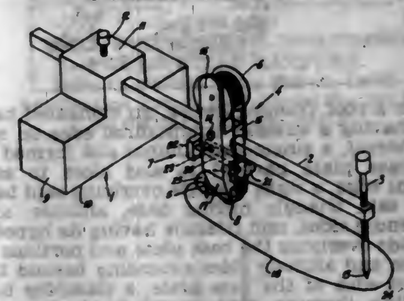
1. In combination with a dental machine including a suction hood utilized in combination with a fluid blast drill, a support for a suction hood carried by said dental machine for removing abrasive material from the mouth of a patient, said support including a mounting bracket secured to the dental machine, a telescoping arm swivelly connected to said mounting bracket, a suction hood supporting clamp mounted at the outer end of said telescoping arm, said suction hood being retainable in position relative to a patient's mouth by said support.

2,654,951
PROFILE TRACING MACHINE
Earl W. Johnston, Worcester, Mass., assignor to United States Steel Corporation, a corporation of New Jersey
Application October 12, 1949, Serial No. 120,998
5 Claims. (Cl. 33—23)



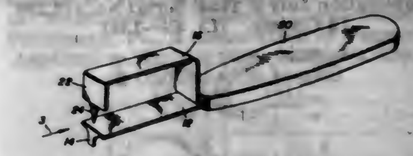
2. A machine for tracing enlarged profiles of die passages comprising a base, a slide adapted to support a die slidably mounted on said base adjacent one end thereof, a platen adapted to have a profile traced thereon slidably mounted on said base adjacent the other end thereof, a linkage pivotally connected to said base and to said slide and platen and adapted to move said slide and platen simultaneously but said platen farther by a ratio equivalent to the enlargement ratio of the traced profile, a spindle pivotally mounted on said base between said slide and said platen and adapted to turn on an axis which closely approaches the vertical and having a portion offset toward said platen from its pivotal axis, a tracing point carried by the offset portion of said spindle and extending toward said slide and adapted to contact the passage of a die supported thereon, an arm carried by said spindle extending in the direction opposite said tracing point and toward said platen, the distance between said axis and the extremity of said arm being greater than the distance between said axis and the extremity of said tracing point and the ratio of these two distances being equal to the enlargement ratio of the traced profile, and means on the extremity of said arm adapted to trace a profile on said platen.

2,654,952
ELLIPSOGRAPH
Philip O. Solen, Oakland, Calif.
Application March 1, 1951, Serial No. 213,313
6 Claims. (Cl. 33—30)



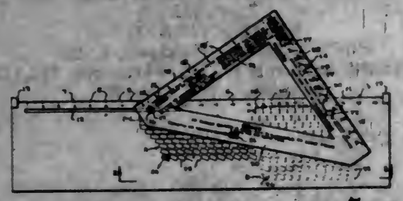
6. In an ellipsograph of the character described, a bar, a runner having a body portion adapted for sliding on the bar and having a pair of upwardly projecting flanges above the bar and a second pair of downwardly projecting flanges below the bar, a spool revolvable between the first pair of flanges and having a forwardly presented discharge edge, a guide between the second pair of flanges in parallel relation to the spool and in vertical alinement with the discharge edge of the spool, a looped string having its ends secured upon the spool for winding and unwinding operations and having two strands descending from the discharge edge of the spool on opposite sides of the bar and passing the guide in spaced relation to one another, and means for training the strands emerging from the guide and the looped end of the string to form a pencil guide for drawing an ellipse.

2,654,953
SCRIBING INSTRUMENT
Louis F. Phelps, Flint, Mich.
Application May 11, 1951, Serial No. 225,795
1 Claim. (Cl. 33—42)



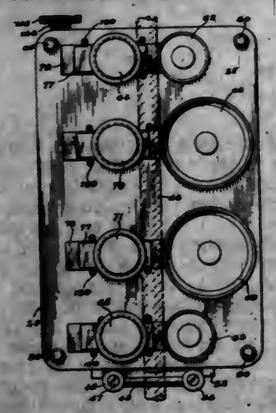
A linoleum scribing instrument comprising, a flat, metallic guide bar, a flat, resilient scribing bar superimposed on the guide bar in face abutting engagement therewith and including a substantially inverted U-shaped end portion overlying the corresponding end portion of said guide bar and terminating in an integral, depending scribing point on its free end spaced from the free end portion of the guide bar for receiving the linoleum therebetween, an integral, depending guide on the free end of the guide bar substantially in the vertical plane of the scribing point, said scribing bar with the point thereon being bendable toward and cooperable with the guide bar for scribing the linoleum, and a handle enclosing the other end portions of the bars and securing said bars together.

2,654,954
ROOF FRAMER
James D. Lawrence, Weedsen, Ark.
Application June 2, 1950, Serial No. 165,615
3 Claims. (Cl. 33—94)



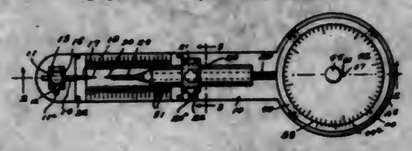
1. In a roof framing device, an elongated base plate having a straight longitudinal edge on one side thereof, a single longitudinal slot formed in said base plate parallel to and close to said straight edge, a right triangle overlying said base plate, said triangle having base, altitude, and hypotenuse sides, said triangle having its hypotenuse side overlying the base plate and portions of its base and altitude sides extending beyond the straight edge of the base plate, a clamping bolt extending through said longitudinal slot and journaled in the corner of the triangle at which its base and hypotenuse sides meet whereby movement of said triangle is limited to longitudinal movement along and pivotal movement about said base plate to present edges of said base and altitude sides as marking edges in conjunction with said straight edge said longitudinal slot reaching from one end of said base plate to a point in longitudinally spaced relation to the other end of the base plate and having a longitudinally inward end, the surface of said base plate between the longitudinally inward end of the slot and the said other end of the base having two longitudinally spaced groups of boxes thereon, the hypotenuse side of the triangle constituting a brace, the base side thereof a blade, and the altitude side thereof a tongue, said base having a window formed therein for selective registry with one group of boxes and said tongue having a window formed therein for registry with the other group of boxes.

2,654,955
MEASURING APPARATUS
Edward F. Moser, Kane, Pa.
Application July 6, 1950, Serial No. 172,299
18 Claims. (Cl. 33—134)



1. In measuring apparatus of the character described, a closed housing, a plurality of wheels rotatably mounted in fixed positions on the exterior of said housing, a guide roller on the exterior of said housing associated with each of said wheels, and a plurality of slides rigidly guided within said housing, each of said slides being movable radially toward and away from the axis of rotation of one of said wheels and having one of said guide rollers rotatably but rigidly carried thereby with its axis of rotation parallel to the axis of rotation of its associated wheel.

2,654,956
MEASURING INSTRUMENT
Arthur F. Francis, Newark, N. J.
Application August 27, 1951, Serial No. 242,789
3 Claims. (Cl. 33—147)



1. In a precision measuring instrument a base, a pair of spaced supporting brackets carried by said base, each having a longitudinal bore therethrough, a rod slidably carried in one of said bores, means for fixing said rod in said bore, an elongated sharply pointed measuring needle carried by said rod, an internally threaded sleeve slidably mounted in the other of said bores, means securing said sleeve against rotation, a threaded rod rotatable in said threaded sleeve, a second elongated sharply pointed measuring needle carried by said threaded rod aligned with said first mentioned needle, a fixed linear scale on said base below said needles, and aligned therewith, means for rotating said threaded rod, a second scale movably supported by said base adjacent to and connectable with said threaded rod and calibrated to measure linear movement of said second measuring needle occasioned by such rotation, said threaded rod being provided with an unthreaded end portion having a keyway, a gear having a key thereon engaging said keyway in said rod and rotatable with said rod, said key and keyway permitting linear movement of said rod relative to a second gear, additional spaced supporting brackets for the unthreaded portion of said rod, gears releasably engageable with said first mentioned gear, means for selectively engaging and disengaging said gears, and means for rotating said second gear.

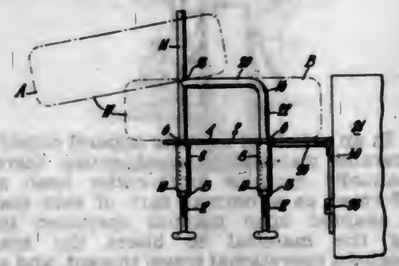
3. The structure of claim 1 wherein said base is comprised of insulating material and said brackets, rods and needles of electrical conductive material, terminals for conducting electric current to said needles whereby the introduction of contacting conductive material between said needles will close an electric circuit.

2,654,957
FEELER GAUGE
Lee A. Grant, Flint, Mich.
Application September 29, 1950, Serial No. 187,382
6 Claims. (Cl. 33—168)



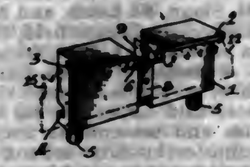
1. A holder for feeler gauges comprising a pair of separate elongate metal straps of shorter length than the feeler gauges to be held thereby, each of said straps having free opposite ends, at least one of said straps being flexible and having each end thereof offset in the same direction from the plane of said strap to provide gripping members at opposite ends thereof, the portion of said last mentioned strap between said gripping members comprising a resilient metal strip which is substantially flat in the unstressed condition, said other strap also having a substantially flat central portion when in the unstressed condition, said straps being juxtaposed with said offset end portions of said one strap overlying the free ends of the other strap and with the central portions of said straps spaced apart, and a pair of collars encircling said straps and slidable longitudinally thereon, said collars being dimensioned to retain said strap with said offset ends in a position bowed inwardly in its central portion towards the other strap, said collars being shiftable on said strap toward the opposite ends thereof to vary the clamping pressure of said offset ends against the free ends of said other strap, the juxtaposed free ends of said straps being separable to enable positioning a pair of feeler gauges between said straps with one gauge projecting outwardly from between one set of juxtaposed ends and the other feeler gauge projecting outwardly from between the other set of juxtaposed ends.

2,654,958
WIRE BUNDLE SPLITTER
Gilbert Walter Weber, Cleveland, Ohio, assignor to United States Steel Corporation, a corporation of New Jersey
Application November 2, 1950, Serial No. 193,663
4 Claims. (Cl. 33—169)



4. Apparatus for dividing bundles of wire comprising a platform adapted to receive a bundle of wire, a rod extending vertically upward from said platform, a pair of L-shaped members attached to said rod at a point between said platform and the top of said rod, said L-shaped members extending normal to said rod and diverging from each other, and one leg of each L-shaped member extending downwardly to said platform.

2,654,959
RAKER GAUGE
Eudes Desiongchamps, Caramat, Ontario, Canada
Application August 26, 1952, Serial No. 306,373
In Canada October 13, 1951
1 Claim. (Cl. 33—202)



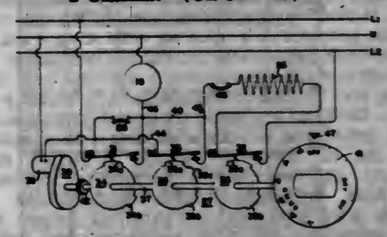
A raker gage comprising a base, a horizontal flange at one edge thereof, said base having a vertical channel, a guide vertically adjustable therein, a tooth projecting laterally from said guide, said tooth having an inclined side adapted to aline with a saw tooth edge, whereby a file may be guided on said inclined side to work on an alined saw tooth edge bearing against the underside of said flange, and means for adjusting said guide in said channel, said body having a longitudinal groove directly beneath said flange to receive the points of laterally bent saw teeth.

2,654,960
WELL INSTRUMENT, INCLUDING PRESSURIZED BATTERY
John C. Hewitt, Long Beach, Calif.
Application July 7, 1952, Serial No. 297,580
13 Claims. (Cl. 33—205.5)



1. Apparatus for operation within a superatmospheric temperature zone in a well comprising a fluidtight housing to be lowered into the well, a body of liquid in the housing adapted to produce an increasing pressure upon increase in temperature as the housing is lowered into the well, a battery in said housing subjected to said increasing pressure created by the liquid, and an electrically energized element electrically connectible to said battery.

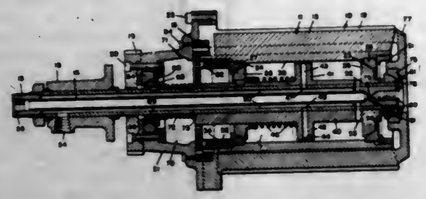
2,654,961
CLOTHES-DRYING APPARATUS
Siegfried E. Manecke, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 12, 1951, Serial No. 226,037
3 Claims. (Cl. 34—45)



1. In clothes drying apparatus, the combination of means defining a drying chamber for the material to be dried, means for circulating air through said chamber, means for heating the air, control means for energizing and deenergizing the air heating and air circulating means, a timing motor for operating the control means, said control means including an element for controlling energization of the timing motor, manu-

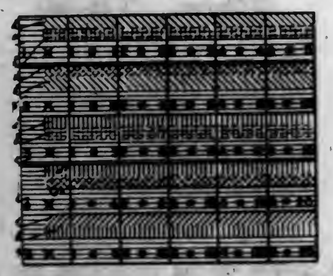
ally operated means for adjusting the control means from an inactive station to an active station for energizing the air heating and air circulating means and means responsive to a predetermined high temperature of the air in the drying chamber for energizing the timing motor for a predetermined period of time, said control means deenergizing the air heating and air circulating means during operation of the timing motor and said element deenergizing the timing motor at the conclusion of said predetermined period of time independently of the temperature-responsive means.

2,654,962
THREAD PROCESSING REEL
Richard W. Stanley, Rocky River, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
Application March 9, 1951, Serial No. 214,687
8 Claims. (Cl. 34—153)



1. In a reel through which a temperature changing medium is circulated, a shaft, bearings about the shaft, the bearings load carrying surfaces being in continuous sealing contact, said reel rotating on said bearings, a chamber in said reel, end bearings in said chamber forming end-closures for said chamber, means for supplying a temperature changing fluid medium to said chamber for circulation therethrough, means for exhausting said temperature changing fluid from said chamber, and means diverting a portion of said temperature changing fluid to the bearings for their lubrication.

2,654,963
EDUCATIONAL DEVICE
Charles Maria Guillaume Van Dijck, Antwerp, Belgium
Application November 20, 1950, Serial No. 196,537
5 Claims. (Cl. 35—70)



1. An educational appliance comprising a plurality of polygonal-shaped blocks, each having the same number of faces, each face of which has a basic coloring arrangement thereon, the basic coloring arrangement differing upon each of the faces of each block and the basic color arrangement on each face being reproduced in like manner on the respective faces of all the blocks, each face of each block having a secondary coloring arrangement thereon consisting of a plurality of colors with all the faces of like basic coloring arrangement being color-keyed in subgroups of like secondary coloring arrangement, and educational indicia disposed upon each of the faces of said block, said blocks when arranged in a group with the same basic coloring arrangement thereon displayed for each of the blocks and with the secondary coloring arrangements matching, presenting an ordered arrangement of said educational indicia, related in the form of arithmetical problems and answers.

2,654,964
EMERGENCY CUTTING MEANS FOR WEARING APPAREL
Robert Stoll, Greeley, Colo.
Application July 14, 1950, Serial No. 173,732
2 Claims. (Cl. 36—4)



2. In an article of wearing apparel constructed of tearable material, in combination therewith, a manually operable knife-cutter head means pre-formed as a normal part of said material and adapted upon manual operation thereof along the material to bisect the material throughout operational travel thereof, and a flexible wire means associated with the cutter head means and the material, with one end of the wire means positioned on the inside of the material and secured to the cutter head means and the other end of the wire means in looping arrangement with relation to and through the material to the outside of the material, said other end of the wire means being adapted to be manually pulled for effecting both wire looping and movement of said wire means from the inside to the outside of the material for effecting an emergency cutting of the material by both the said cutter head means and the said looping arrangement of the other end of the wire means.

2,654,965
SHOE WITH INSOLE EXPOSABLE TO VIEW
Jervis H. Sloan, St. Louis, and Marian H. Gilkerson, Chesterfield, Mo.
Application September 1, 1950, Serial No. 182,784
4 Claims. (Cl. 36—8.4)

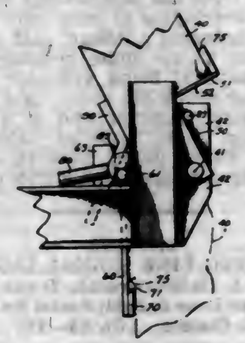
1. In a shoe, an insole for said shoe, an upper for said shoe, said upper having a vamp with integral sides and toe-end portions, said vamp extending uninterruptedly around the toe-end of the upper and said toe-end being substantially vertical at the extreme forward end of said shoe, and a tongue and toe-cap portion for said upper

connected to and extending hingedly from the top edge of said substantially vertical toe-end portion, said tongue and toe-cap portion being necked-in at its point of connection with the toe-end portion, whereby the tongue and toe-cap



portion may be removed from its normal instep and toe covering position to thereby assume a position permitting visual inspection of the entire top face of the insole up to and including the extreme toe-portion thereof.

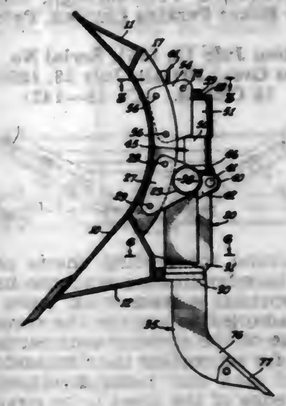
2,654,966
CRUMBING MECHANISM FOR EXCAVATING MACHINES
Albert R. Askue, Euclid, Ohio, assignor to The Cleveland Trencher Company, Cleveland, Ohio, a corporation of Ohio
Application January 27, 1950, Serial No. 140,841
7 Claims. (Cl. 37—80)



1. A retaining mechanism for a pivotally mounted crumbing shoe of an excavating machine having a support on which one end of the shoe is pivotally mounted to swing from a position with its other end in engagement with the floor of a trench to be excavated to a position with such other end out of the excavated trench, said mechanism including a member pivotally seated at one end on said support, a movable cam coacting with the other end of said member to raise and lower said member, and means carried by said member intermediate its ends to engage said shoe and clamp it against said support to thereby prevent movement of said shoe.

2,654,967
SCARIFIER TOOTH ATTACHMENT FOR BULLDOZERS
Everett T. Small, Los Angeles, Calif.
Application October 7, 1950, Serial No. 188,980
3 Claims. (Cl. 37—145)

2. A scarifier tooth assembly comprising a scarifier tooth, a holder for the tooth, the holder having hollow trunnions, means attachable to the rear of a bulldozer blade rotatably receiving the trunnions to swingably mount the holder, means extending through the trunnions for detachably securing the tooth to the holder, and spring



means engaging the holder to urge the holder into upright position.

2,654,968
IRONING STAND
John Henry Walter Lewis, Chaldon, near Caterham, England
Application September 26, 1950, Serial No. 186,725
In Great Britain September 27, 1949
7 Claims. (Cl. 38—107)



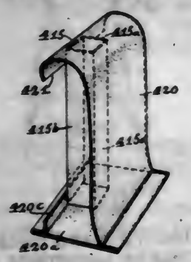
6. A folding ironing stand comprising an ironing top and a folding supporting structure movably connected with the ironing top and movable between an unfolded condition in which it supports the top in the position for ironing and a folded condition in which the parts thereof lie close to the top for convenience in stowing the stand, a retaining device mounted on the stand for movement thereon between a first non-retaining position, and a second retaining position, in which it effects retention of an iron mounted in a predetermined position on the stand, means operatively engaging said retaining device for moving said retaining device from the non-retaining into the retaining position by relative movement between the ironing top and the supporting structure, with the latter unfolded, and a projection on said means, taking a position against a part of the stand, while the latter remains in the folded condition, such that said projection, said means, and the retaining device are prevented from movement from the iron-retaining position while the stand remains in the folded condition.

2,654,969
FEEDING OF SHEETS TO MULTIROLL LAUNDRY IRONING MACHINES
Stanley Woodward, Peterborough, England, assignor to Baker Perkins Limited, Peterborough, England
Application July 16, 1951, Serial No. 237,033
In Great Britain July 28, 1950
10 Claims. (Cl. 38—143)



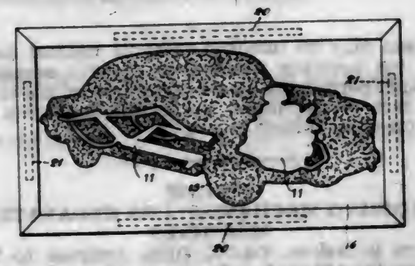
1. A machine for feeding sheets or like flat work to a laundry ironing machine having feed bands, comprising a framework, pairs of releasable clips adapted to engage the corners of the leading edge of the sheet, means carried by said framework for supporting the clips and traversing the clips of each pair along divergent paths to cause said edge of the sheet to be stretched as it travels forward over said feed bands, a detector device carried by said framework and operable by engagement therewith of the tautened edge of the sheet, clip release means mounted on said framework and actuated by the detector to liberate the sheet and allow it to fall upon said feed bands, means for returning the released clips to and automatically stopping them in the starting position.

2,654,970
COMBINATION DISPLAY DEVICE AND MAILING PIECE
Peter S. Miller, St. Laurent, Quebec, Canada, assignor to H. B. Miller Limited, Montreal, Quebec, Canada, a corporation of Canada
Application June 6, 1950, Serial No. 166,498
8 Claims. (Cl. 40—124.1)



1. A display device, comprising, an elongated support, a flexible display sheet of normally flat sheet material normally resilient to its flat form supportable by said support, the display sheet being connected to one end of the support with the sheet extending from its connection in a direction away from the support and then flexed back around said one end of the support so as to be draped over the end of the support and then extending in juxtaposed relationship to the support for a major portion of the length of the latter and then extending outwards from the support, the support being connected at the other end to a connecting means having a flat base member and extending from the display sheet in a rearward direction over the end of the support, the support including a means hinged to it for extension in a forward direction to bear against the display sheet and to retain it spaced apart from the support, said connecting means connecting the other end of the display sheet to the other end of the support to retain said other end of the sheet in such a manner that the sheet is bowed transversely to its length throughout a major portion of its length against the normal tendency of the sheet to flatten out.

2,654,971
LUMINOUS SIGN
George R. Harrison, Chicago, Ill., assignor to Adgio, Inc., Chicago, Ill., a corporation of Illinois
Application August 6, 1949, Serial No. 108,911
4 Claims. (Cl. 40—134)



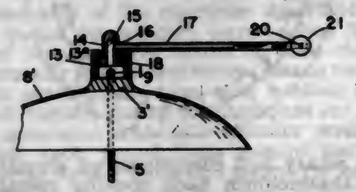
1. A sign comprising a backing, a first layer of ultra-violet responsive luminescent material on said backing delineating a design, a second layer of material transparent to ultra-violet and to the light emitted from the luminescent material, said second layer overlaying at least part of said first layer and delineating a design, said second layer material being visible under ordinary light, said first layer material being granular of between about 140 and about 325 mesh, said second material also being granular and of a finer mesh than said first layer material, said first layer design being visible under ultra-violet light and said second layer design being visible under visible light.

2,654,972
FISHING LINE SIGNAL LIGHT
Stanley J. Hollingsworth, Jenks, Okla.
Application June 6, 1951, Serial No. 230,167
2 Claims. (Cl. 43—17)



1. In a fishing line signal light, the combination which comprises a floating transparent container, a sealing cap mounted on the said container, a bracket having friction gripping arms extended therefrom mounted in the container, a battery held in the arms of the bracket, an arm pivotally mounted on the bracket, a light positioned in the arm pivotally mounted on the bracket and located so that a contact thereof is positioned to engage a terminal of the battery, a spring attached to the bracket and arm in which the light is carried for holding the arm in such a position that the contact of the light is spaced from the terminal of the battery, a line extended from the arm in which the light is carried through an opening in the container, and a second line extended from the bracket in the container through an opening in the upper end of the container and adapted to be connected to a fishing pole or the like.

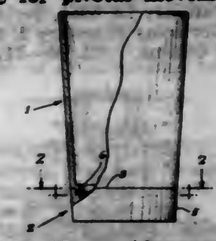
2,654,973
TOY CAP
Jerome H. Lemelson, Staten Island, N. Y.
Application November 13, 1950, Serial No. 195,359
2 Claims. (Cl. 46—56)



1. An action toy comprising a casing which has a through-and-through longitudinally extending cylindrical bore which is sealed at its bottom end, the top end of said casing having an inturned peripheral annular flange partially closing off the top of said bore, a longitudinally extending cylindrical piston slidably and turnably mounted in said bore and having an upper integral hub extension of reduced diameter extending slidably and turnably through the opening of said flange, said piston having a longitudinal bore extending from the bottom surface thereof an appreciable distance into said hub, said hub having an elongated hollow tube projecting radially from the outer surface thereof and extending within said hub into communication with said piston bore, said tube being located intermediate the top and bottom of said hub and being positioned to contact the top of said casing to limit the downward sliding movement of said hub within said flange opening, said casing having an air hole below said piston so that air may be blown into said casing, said tube being closed at its free outer end portion except for a reduced opening whose axis is substantially transverse to the common plane of the axis of said tube and the axis of said hub, said piston being adapted to be raised against said flange by air blown through said air hole into said casing, whereby to seal the opening of said flange and permit said air to pass through said bore and said tube and to escape through said reduced opening, said reduced opening being sufficiently small to enable said escaping air to produce a jet action on said tube, causing said tube, hub and piston to spin.

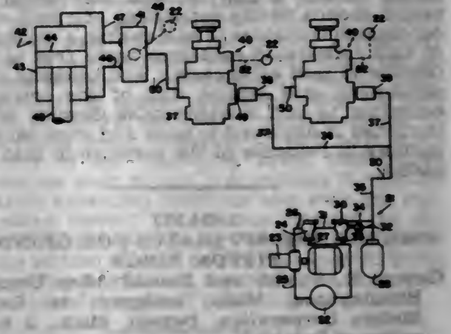
2,654,974
DRINKING VESSEL WITH ANIMATED DISPLAY
Daniel Rosenthal, Brooklyn, N. Y.
Application September 8, 1948, Serial No. 48,300
5 Claims. (Cl. 46—118)

1. In a display construction for a vessel having a transparent bottom wherein a generally cup shaped member is formed with a portion to receive the base of said vessel and has a portion extending below the said receiving portion for the mounting of a display figure, said cup shaped member having a bottom, an upstanding side wall therearound forming a chamber therewithin overlying said bottom, a display figure, a bell type sounding member forming part of said figure and connected to the main part of said figure by a flexible connector, means for mounting said display figure for pivotal movement in spaced



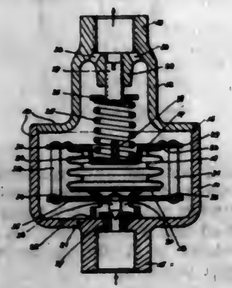
relation to said bottom, said mounting means including a pivot pin extending from said bottom and engaged with said display figure, and means forming part of the visible portion of said figure to counterweight said figure to maintain the same in upright position.

2,654,975
REDUCING VALVE
Cecil E. Adams and Ellis H. Born, Columbus, Ohio, assignors to The Denison Engineering Company, Columbus, Ohio, a corporation of Ohio
Application July 23, 1948, Serial No. 40,376
7 Claims. (Cl. 50—11)



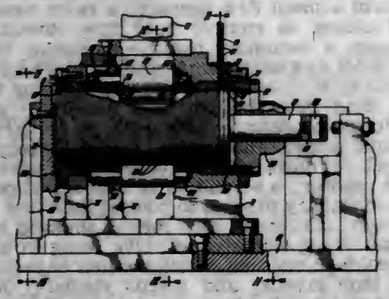
1. A pressure reducing valve mechanism comprising a casing having inlet, outlet and exhaust ports, said inlet and outlet ports being connected to form a main flow passage; a valve element in said casing to control fluid flow through said passage; a secondary passage extending between said inlet and outlet ports and around said valve; means in said secondary passage forming an orifice, fluid flow through said secondary passage producing a pressure differential on opposite sides of said orifice, the greater pressure being employed to move said valve element toward an open position; a second valve element disposed in said secondary passage to control fluid flow therethrough; stationary stop means engaged by said second valve, said second valve being in secondary passage opening position when engaged with said stop means; and means yieldably holding said second valve in engagement with said stop means to permit fluid flow through said secondary passage, said second valve element being responsive to a predetermined increase in pressure in said outlet port to move away from said stop means to a second position to interrupt fluid flow through said secondary passage, said second valve having a passage establishing communication between said outlet and exhaust ports when in said second position.

2,654,976
REGULATING VALVE FOR REFRIGERATING INSTALLATIONS
Hans Jörgen Jörgensen, Hamburg-Stellingen, Germany
Application January 28, 1950, Serial No. 141,027
In Germany February 2, 1949
3 Claims. (Cl. 50—21)



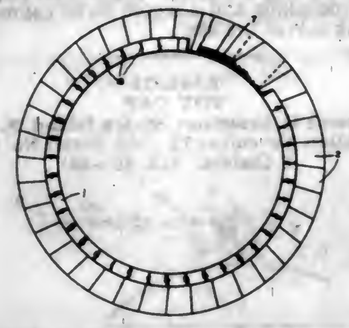
1. For use in refrigerating installations; a regulating valve comprising a valve casing having inlet and outlet openings, said inlet opening having a valve seating, a movable valve member for controlling the flow through said valve seating, and means for displacing said movable valve member including a closed corrugated container disposed within said valve casing and having an interior which is completely free of parts, spring means acting on said corrugated container, means rigidly connecting one wall of said corrugated container to said casing, a second wall of said corrugated container being free to move relative to said valve casing, and bridging means connecting said second wall of the corrugated container to said movable valve member so that the latter is displaced to open and close said inlet opening in response to the pressure in said valve casing.

2,654,977
PROCESS AND APPARATUS FOR GRINDING PISTON RINGS
George R. Squibb and Donald Allen Urquhart, Birmingham, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 3, 1951, Serial No. 224,368
11 Claims. (Cl. 51—103)



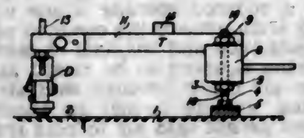
1. In a ring grinding apparatus, a frame including a support having an axially inwardly tapering circular ring entrance, ring feeding means movable axially with respect to the ring entrance, rotary ring driving means arranged in a circle around the outlet of the ring entrance, and a grinding wheel engageable with driven rings said apparatus beyond said ring driving means being formed to provide a ring outlet.

2,654,978
ROTARY SURFACE-FINISHING TOOL
Wolfram N. Delenk, Lakewood, Ohio, assignor to The Osborn Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application September 22, 1951, Serial No. 247,788
14 Claims. (Cl. 51—193)



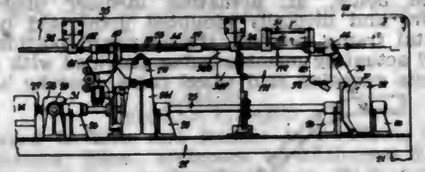
1. A rotary buff comprising an annular sheet metal channelform back opening radially outwardly, an elongated retaining element within such channel extending circumferentially within said channelform back, and buffing material doubled about said element within such channel with end portions extending generally radially to form the buff face, said material comprising a plurality of felt strips of oblique parallelogram shape arranged in uniform overlapping relationship and doubled about said element with the respective opposite end portions of each said strip offset circumferentially of the buff, thereby forming a peripheral buff face of overlapping strip ends angularly disposed relative to the plane of the buff.

2,654,979
METHOD OF AND DEVICE FOR PRODUCING SPECIFICALLY ORIENTED POLISHED FACES ON DIAMONDS
Paul Grodzinski and Arno Ludwig Karl Penkuhn, London, England
Application August 29, 1950, Serial No. 182,108
1 Claim. (Cl. 51—229)



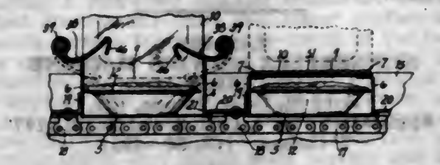
Method of producing specifically orientated polished faces on diamonds comprising the following steps, namely, (1) clamping the stem of a dop unit with a diamond fixedly mounted therein in a tang over a scaife; (2) adjusting the dop in a polishing position chosen according to practical experience; (3) taking the stem with the thus adjusted dop out of the tang and transferring it into a corresponding holder for the stem in an X-ray goniometer for the control of correct crystal orientation; (4) adjusting the dop with regard to a desired plane as determined by direct observation in the goniometer without altering the position of the stem in the holder; (5) transferring the stem with the X-ray adjusted dop into its previous position in the tang and setting the tang in its previous position with the oriented diamond face on the scaife; and (6) polishing the diamond as set.

2,654,980
HANK WINDING MACHINE
Robert G. Dexter, Lexington, Mass., assignor, by mesne assignments, to Continental Elastic Corporation, New Bedford, Mass., a corporation of Delaware
Application January 11, 1950, Serial No. 138,031
47 Claims. (Cl. 53—49)



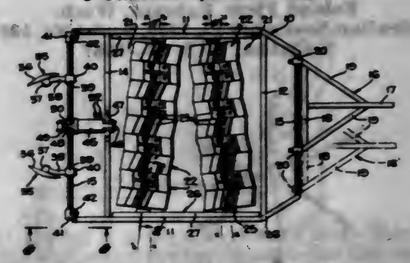
1. A machine of the character described comprising means for winding convolutions from a length of tape, transfer means for such convolutions normally spaced therefrom, means for moving such convolutions from said winding means onto said transfer means to encompass the latter, means associated with said transfer means for elongating such convolutions thereby flattening the latter to form a hank and means for banding such hank.

2,654,981
MACHINE FOR CONVEYING AND CLOSING CARTONS
Richard C. Stenger, Kalamazoo, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich., a corporation of Michigan
Application September 2, 1949, Serial No. 113,716
8 Claims. (Cl. 53—145)



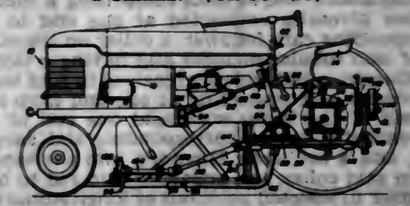
1. A machine for closing cartons having top flaps on their end walls and covers hinged to their rear walls and provided with tucking flaps on their swinging edges comprising a conveyor including a way provided with side members and conveyer flights operatively associated with the way for pushing cartons therealong with a step by step movement, the adjacent flights coacting to provide spaced carton pockets, transversely spaced cover supporting members disposed longitudinally of the way to receive the open covers between them as the cartons are translated, top flap folders comprising rock shafts disposed transversely above the conveyer, oppositely disposed downwardly convex top flap folder plates mounted on said rock shafts and having downturned hook-like portions at their swinging ends extending transversely of said way and engageable with the edges of the top flaps during the latter portion of the folding stroke, said top flap folder plates and their hook portions in their retracted positions being located closely above and extending inwardly across the top flaps of a carton located at a top flap folding station of said conveyor, the curvature of the folders and the position of their axes being such that their convex under surfaces engage the edges of the open top flaps with a wiping folding action, said top flap folders acting on the top flaps while the cover is supported in upright position by said cover supporting members, a tucking flap turning member acting to turn the tucking flap forwardly while the cover is supported by said supporting members, a forwardly curved tucking flap guide disposed at the rear of said tucking flap turning member and said top flap folders to overhang the conveyer, a cover closing member disposed in opposition to said guide member and acting to swing the cover to closed position, and means for actuating said conveyer, top flap folders, tucking flap turner member and cover closing member in synchronized relation.

2,654,982
CULTIVATING DEVICE
Curtis V. Edwards, Yakima, Wash., assignor to Edwards Equipment Company, Yakima, Wash., a corporation of Washington
Application January 26, 1950, Serial No. 140,579
5 Claims. (Cl. 55—61)



1. In a cultivating device of the character described: a substantially horizontal frame member adapted to be moved along a path of movement; an axle supported by said frame in crossing relation to said path of movement; a plurality of pairs of hub sections rotatably supported on said axle in face to face relation; relative rotation preventing means interconnecting the hub sections of several pairs, each connected pair of hub sections being rotatable on said axle independently of the remaining pairs; and blades mounted on each of said hub sections in radially outwardly extending positions and with the cutting edges thereof in crossing relation to the planes in which said blades rotate, the blades on one hub section of each pair of hub sections being in staggered relation to the blades of the other hub section of the pair of hub sections.

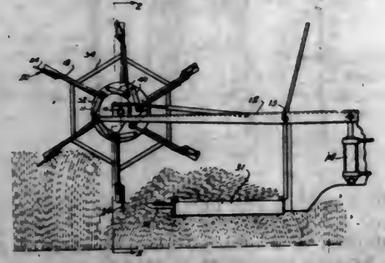
2,654,983
TRACTOR MOUNTED WINDROWING ATTACHMENT
Andrew E. Peake and Peter Ten Kley, Primghar, Iowa
Application November 2, 1948, Serial No. 57,398
4 Claims. (Cl. 56—23)



1. In a harvester attachment for a tractor, a support frame, attaching means connected to said support frame for mounting the same on a tractor, a carriage extending laterally from said support frame and being hinged thereto for vertical pivoting movement, a sickle knife mounted on the front of said carriage and being laterally offset from said support frame, a reel mounted on said carriage parallel to and spaced above

said sickle knife, spaced parallel rollers mounted on said carriage to the rear of said sickle knife and being angularly related thereto, an endless conveyor belt entrained over said rollers for windrowing grain cut by the sickle knife, operating means mounted on said carriage and support frame effecting pivoting of said carriage and operation of said reel and said sickle knife, said support frame including spaced brackets, a rock shaft journaled on an extending between said brackets, lift levers rigidly secured to said rock shaft at opposite ends thereof, said carriage being pivotally connected to said lift levers whereby the carriage may be vertically pivoted by movement of the rock shaft.

2,654,984
HARVESTING REEL
Roland Fiess, Ephrata, Wash.
Application November 17, 1950, Serial No. 196,259
2 Claims. (Cl. 56—226)



1. In a harvester reel including a rotatable reel shaft, reel slats spaced from and substantially parallel to said shaft and disposed at substantially equal angular intervals therearound, and spokes supporting said slats on said shaft, a row of spaced apart spikes slidably carried by each slat for projection beyond the outer edge of the latter, shafts rotatably carried one by each slat and connected to said spikes for moving the latter inwardly and outwardly relative to the corresponding slats, spring means connected to the slat carried shafts resiliently urging said spikes inwardly of the corresponding slats, a cam journaled on said reel shaft and having an acute lobe and a flat dwell, means adjustably connected to said cam for holding the latter against rotation with said lobe directed downwardly, cam followers carried by said reel and engaging said cam, and means including adjustable length links connecting each of said cam followers to a corresponding slat carried shaft to impart rotational movements to said slat carried shafts as the cam followers pass over the lobe of said cam, each of said adjustable length links comprising a tubular member pivotally connected at one end to the corresponding cam follower, a collar on the other end of said tubular member and having a tapped hole therein, a rod slidably received in said tubular member and projecting at one end from said one end of the latter with said one end of the rod connected to the corresponding slat carried shaft, and a set screw threaded into the tapped hole in said collar and engaging said rod to hold the latter in selected positions of longitudinal adjustment relative to said tubular member.

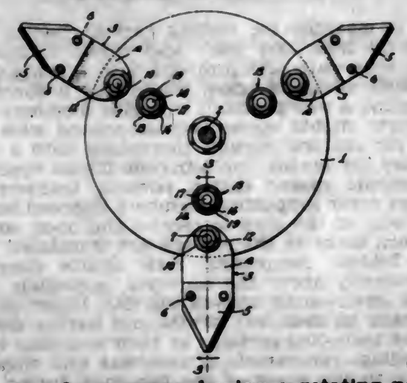
2,654,985
LAWN TRIMMER AND EDGER
Arthur E. Miller, Milwaukee, Wis.
Application March 21, 1949, Serial No. 82,523
7 Claims. (Cl. 56—246)

1. In a machine for trimming the edge portions of lawns, the combination of a ground-engaging wheel provided with a series of circumferentially spaced cams; an axle journaling said wheel; a shear frame mounting said axle and having a horizontal member disposed forwardly of the wheel; a toothed shear blade fixedly carried by and extending forwardly from said horizontal frame member; a second toothed shear blade floatingly superposed upon said fixed blade; an actuating member disposed above and pivotally mounted upon said horizontal frame member, the rearward portion of said actuating member being provided with elements engaging said wheel cams whereby hori-



zontal oscillation may be imparted to the actuating member through rotation of the wheel; a flat spring fixedly carried by and extending forwardly from said actuating member and having a portion pressurally contacting the upper surface of the floating shear blade at a single medial point whereby to maintain yieldable engagement between the teeth of the two blades; and non-rigid connections between the spring and floating blade maintaining the latter in proper position and transmitting oscillatory motion thereto from the spring and actuating member.

2,654,986
SPINNERFLEX MOWING MACHINE CUTTERHEAD
Byrd M. Gold, Tampa, Fla.
Application July 5, 1951, Serial No. 235,147
3 Claims. (Cl. 56—295)



1. In a lawn mower having a rotating power shaft, a disc plate carried by the lower end of said shaft, a series of blade members spaced around the disc plate adjacent its periphery, each blade comprising an inner section having a semicircular end and an outer section including two converging sharpened edges, each of said members having one end of its inner sections freely pivoted on pivot means fixed on the disc plate, each blade member being movable between a position overlying the disc plate and a position projecting radially from the plate, each blade being of a length exceeding distance between the pivot point thereof and the center of the disc,

and bumpers each fixed on the disc plate in the path of pivoting movement of a respective blade member, said bumpers being positioned between the center of the disc plate and the pivot means of the blades on radial lines leading from the center of the disc to the pivots of the blades, said pivot means each including a bolt extending through the disc, a washer on said bolt having an upwardly extending sleeve portion on which the blade member engages and means to hold said blade member on the sleeve.

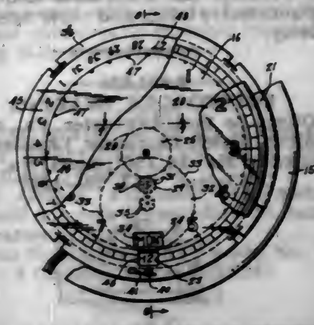
2,654,987
SICKLE GUARD
Edward L. Mills and Dennis A. Donahue, Buchanan, Mich., assignors to Buchanan Steel Products Corporation, Buchanan, Mich., a corporation of Michigan
Application May 20, 1948, Serial No. 28,196
2 Claims. (Cl. 56—310)



1. A cutter guard for use in a mowing machine and formed of forged steel and including an elongated body portion having a ledger surface and a lip overlying the same, and further including a relatively shallow anchorage portion offset downwardly from said ledger surface and having formed thereon as the result of the forging operation a bolt recess and upstanding lugs spaced on opposite sides thereof and adjacent the peripheral edge of said anchorage portion, said guard body portion being provided on opposite sides thereof and along said ledger surface with cutting edges, said guard body portion and said anchorage portion having, respectively, a first parting line region and an offset parting line region both resulting from the forging operation and joined by an intermediate parting line, said first parting line region approximating the position of said cutting edges, and said offset parting line region extending along the periphery of said anchorage portion with the bolt recess and upstanding lugs disposed close to the said offset parting line region.

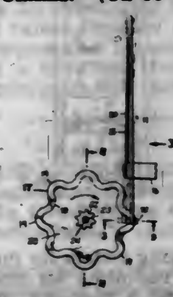
2,654,988
CALENDAR CLOCK
Armando Gasbarro, Jersey City, N. J.
Application September 22, 1952, Serial No. 310,794
10 Claims. (Cl. 58—5)

1. In a calendar clock, a face plate having a central shaft opening and date and day-of-the-week openings, a disc rotatably mounted and centrally disposed on the rear side of the face plate, said disc having a polygonal central opening and six peripheral projections equally spaced apart, a second disc rotatably mounted on the rear side of the face plate adjacent the first disc, said second disc having a single peripheral projection and a centrally concentric circle of twelve abutments equally spaced and disposed for engagement with the projections on the first disc to rotate the second disc, a day-of-the-week disc rotatably mounted on the rear side of the face plate and having seven peripheral projections equally spaced apart and seven abutments radially aligned with the projections and extending from the day-of-the-week disc for engagement by the single projection on the second disc for said second disc to move the day-of-the-week disc, said day-of-the-week disc having day-of-the-week indicia consecutively disposed on the disc between the peripheral projections and disposed for travel behind the day-of-the-week opening in the face plate, a date disc having a central shaft opening, a central shaft extending through the date disc and the face plate, said



shaft having a polygonal-shaped hour hand receiving section extending through the like shaped central opening of the first disc to rotate that disc, said date disc being freely rotatable on the shaft behind the face plate and having thirty-one upstanding abutments on its marginal edge portion positioned for engagement with the seven peripheral projections on the day-of-the-month disc, said date disc having date indicia on the peripheral edge portion consecutively disposed between the marginal edge portion abutments and behind the date opening in the face plate.

2,654,989
TIMEKEEPING MAGNETIC ESCAPEMENT AND ROTOR UNIT THEREFOR
Malcolm P. Nichols, deceased, late of North Haven, Conn., by Mabel T. Nichols, executrix, North Haven, Conn., assignor to The E. Ingraham Company, Bristol, Conn., a corporation
Application December 1, 1950, Serial No. 198,523
4 Claims. (Cl. 58—116)



1. In a timekeeping magnetic escapement having a rotary escape member and an oscillatory member, the combination of an endless wavy magnetic band-like element disposed on said escape member concentrically thereof and forming a track thereon; and a polar element on said oscillatory member, one of said elements being permanently magnetized and magnetically coupled with the other element, said track element having inner and outer apex portions dis-

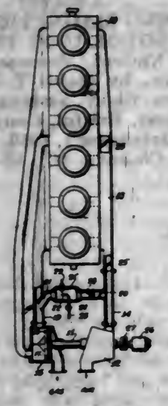
posed alternately on the inside and outside, respectively, of a circle at substantially equal distances therefrom so that the innermost and outermost edges of said outer and inner apex portions, respectively, are outside and inside said circle, respectively, and said apex portions are curved substantially as the apices of a sine wave, and said polar element being of a width, radially of said escape member, which is smaller than the radial distance between the outermost and innermost edges of successive outer and inner apex portions, respectively, and greater than the radial distance between the outermost and innermost edges of successive inner and outer apex portions, respectively.

2,654,990
EQUITORQUE BEARING
James Oliver Le Van, Lancaster, Pa., assignor to Hamilton Watch Company, Lancaster, Pa.
Application May 16, 1951, Serial No. 226,666
2 Claims. (Cl. 58—140)



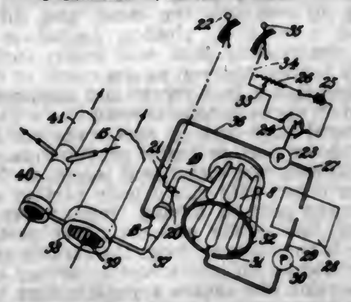
1. A bearing assembly for a balance wheel pivot staff, comprising an olived stone and an endstone, said pivot staff being formed at one end with a conical depression to provide contact with the endstone at the outer circumferential edge of the end of said pivot staff, said circumferential edge being rounded.

2,654,991
CONTROL FOR ENGINE TURBOSUPERCHARGER SYSTEMS
Frederick Nettel, Manhasset, N. Y.
Application September 9, 1950, Serial No. 183,925
1 Claim. (Cl. 60—13)



In a turbocharging system for internal combustion engines, including an internal combustion engine having a plurality of cylinders divided into groups, inlet and exhaust means in said cylinders, exhaust turbine means, compressor means, means to drivingly connect said turbine means to said compressor means, said turbine means and said compressor means being mechanically independent of the said engine, first conduit means to convey the compressed air from said compressor means to said engine, said gas turbine means being provided with a plurality of separate gas inlet chests, and a plurality of second separate conduit means for connecting the exhaust means of every group of two or more cylinders with one of said separate gas inlet chests of said turbine means, valve controlled third conduit means with interposed fuel burning combustion chamber means for connecting said first conduit means with some only, of said second separate conduit means, so that according to changing operating conditions of the engine some only of the separate gas inlet chests of said turbine means may be supplied with gases either from the said combustion chamber means through the third conduit means alone, or from the said second conduit means alone, or simultaneously from both said third and second conduit means, means for operating the turbine means and compressor means as an independent gas turbine unit by supplying said gas turbine with gases exclusively through the third conduit means, and valve means to block the flow of air from the blower to at least some engine cylinders during such independent operation of the said gas turbine and compressor.

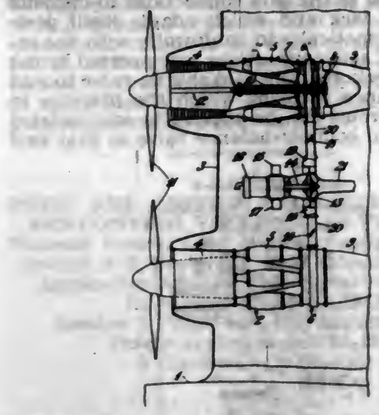
2,654,992
APPARATUS FOR PREVENTING OR REDUCING THE FORMATION OF ICE ON THE AIR DUCTS OF GAS TURBINE ENGINES
Francis Charles Iver Marchant and John Ernest Bell, Bristol, England, assignors to The Bristol Aeroplane Company Limited, Bristol, England, a British company
Application March 1, 1948, Serial No. 12,416
In Great Britain March 18, 1947
6 Claims. (Cl. 60—39.09)



1. A gas turbine engine comprising a compressor, a duct conveying atmospheric air to the compressor, combustion equipment which receives air from the compressor and in which fuel is burnt, a turbine driven by the products of combustion and driving the compressor, a combustion chamber, separate of the engine combustion equipment, a pipe to carry air only from the engine compressor to said combustion chamber, means for supplying and burning fuel in said combustion chamber and a conduit to convey the combustion gases from said chamber to said duct and for discharging said gases into the stream of air passing through the duct.

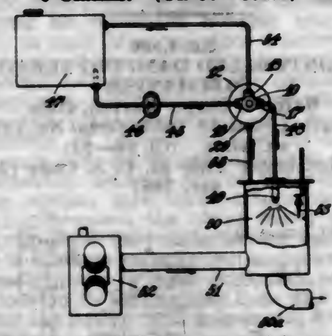
2,654,993
GAS TURBINE ENGINE WITH MULTIPLE TURBINES
Frank Morgan Owner, Bristol, England, assignor to The Bristol Aeroplane Company Limited, Bristol, England, a British company
Application September 16, 1949, Serial No. 116,148
In Great Britain September 27, 1948
2 Claims. (Cl. 60—39.16)

1. A gas turbine power plant comprising at least two turbine engines each of which comprises a compressor, combustion equipment which receives air from the compressor and in which fuel is burnt, and a main turbine which receives the gases from the combustion equipment and comprising a pair of independently-rotating rotors one of which is adapted to drive the compressor, said rotors being operatively associated in series with the compressor rotor posi-



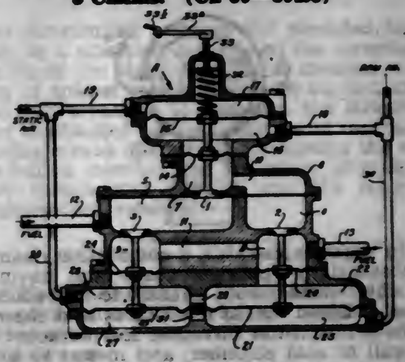
tioned upstream of the other of said rotors so that the gases from the combustion equipment pass first through the compressor rotor and then through said other rotor, an auxiliary turbine mechanically independent of said turbine engines, and means for withdrawing gases from said turbine engines at a point between the rotors thereof and supplying the gases to said auxiliary turbine.

2,654,994
CONTROL DEVICE FOR FUEL SYSTEMS
Alberto Jorge Morris, Dursley, England, assignor to R. A. Lister & Company Limited, Dursley, England, a British company
Application September 30, 1949, Serial No. 118,846
In Great Britain November 8, 1948
6 Claims. (Cl. 60—39.28)



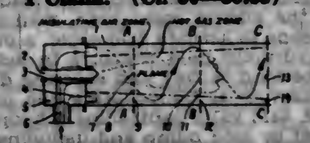
5. A fuel control device comprising a housing structure affording a pressure chamber, a flexible diaphragm arranged to form one wall of said chamber, port means opening into said pressure chamber to permit the supply to said pressure chamber of a pressure fluid to displace said flexible diaphragm, an abutment member carried to be moved by said flexible diaphragm on variation in the pressure of said pressure fluid, a valve body having a fuel inlet and a pair of fuel outlets and having a recess formed at its end adjacent the abutment member, a piston valve member slidingly arranged in said valve body to move between positions in which said fuel inlet is placed in communication with said fuel outlets respectively, said piston valve member having a part in abutment with said abutment member to be moved into one of the positions by said flexible diaphragm, spring means arranged to urge said piston valve member towards said abutment member and to move the piston valve member into the other position, and a flexible sealing diaphragm connected peripherally to said valve body to form a wall of said recess and connected to said piston valve member to permit its sliding movement, said recess being connected by a duct to that one of the two fuel outlets which is placed in communication with the fuel inlet on movement of said piston valve member into said other position by said spring means.

2,654,995
MAXIMUM-MINIMUM FUEL FLOW REGULATOR RESPONSIVE TO RAM JET ENGINE RAM PRESSURE
Harold H. Ostroff, Ferguson, Mo., assignor to McDonnell Aircraft Corporation, St. Louis, Mo., a corporation of Maryland
Application November 1, 1947, Serial No. 783,581
8 Claims. (Cl. 60—39.28)



1. A fuel regulator for jet engines comprising a main fuel valve, a maximum flow fuel valve and a minimum flow fuel valve, housing means for said valves, conduit means connecting said housing means with a source of fuel and the jet engines, and other means connected with said valves to operate the same, said other means being movable in response to ram air and atmospheric pressure for regulating the fuel flow positions of said valves between a maximum fuel flow limit as determined by said maximum flow fuel valve and a minimum fuel flow as determined by said minimum flow fuel valve.

2,654,996
GAS TURBINE COMBUSTION CHAMBER
Renato Boniszegni, Zurich, Switzerland, assignor to Ateliers de Construction Oerlikon, Zurich-Oerlikon, Switzerland, a corporation of Switzerland
Application September 6, 1949, Serial No. 114,122
In Switzerland October 26, 1948
1 Claim. (Cl. 60—39.65)



A gas turbine combustion chamber comprising a cylindrical pressure-resisting wall, a fuel

injector mounted at the longitudinal axis of said wall creating a fuel combustion flame which is coaxial with the axis of said wall, inletting means surrounding said injector forcing a stream of primary air lineally forwardly for creating a cylindrical hot gas zone enveloping said flame, the space between said zone and pressure-resisting wall being uninterposed, and inletting means surrounding said other means having blading therein which is configuratingly adapted to force secondary mixing air into the chamber of said wall in form of a helicoidal path and gyrating cylinder that bears centrifugally forcibly against said pressure-resisting wall as a layer which envelops said zone and protects said pressure-resisting wall against superheating by the radiation of said zone.

2,654,997

TWO-LIQUID COMBUSTION CHAMBER FOR ROCKET APPARATUS

Robert H. Goddard, deceased, late of Annapolis, Md., by Esther C. Goddard, executrix, Worcester, Mass.

Application February 23, 1952, Serial No. 273,132
3 Claims. (Cl. 60—39.66)



1. In rocket apparatus, a combustion chamber of substantially spherical shape and having a thin sheet-metal wall, means to introduce a stream of liquid fuel at one side of said chamber and in a tangential direction and adjacent the side wall of said chamber, and means to introduce a stream of liquid oxidizer at a relatively separated point in said combustion chamber and in the same tangential direction and also adjacent the side wall of said chamber, and said two supply means being in the same plane normal to the combustion chamber axis and substantially at the point of greatest diameter.

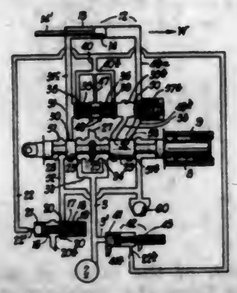
2,654,998

PUMP AND DOUBLE-ACTING MOTOR HYDRAULIC SYSTEM, INCLUDING CONTROL VALVE MECHANISM

Joshua Challiner Nayler and John Nelson Fieldhouse, London, England, assignors to Vickers-Armstrongs Limited, London, England, a British company

Application July 12, 1952, Serial No. 298,646
In Great Britain August 24, 1951
5 Claims. (Cl. 60—52)

1. Means for controlling the raising, lowering, maintaining raised and floating conditions of a load to be controlled hydraulically, comprising a jack for raising and lowering the load, a main valve of the sliding spool type, manually controlled means to actuate said spool, a pump generating hydraulic fluid pressure to actuate the jack in the load raising and lowering directions, an oil reservoir accommodating the pump and said valve, said valve controlling a hydraulic circuit served by said pump and including connections to opposite ends of the jack from the pump via said main valve, and a connection to a return or discharge outlet to the reservoir from the ends of the jack via said valve, a counter-balance valve controlling said return or discharge outlet and being actuated by load-operative fluid pressure during actuation of the jack to open said outlet and by means yieldably opposing said pressure to close said outlet when the main valve spool is set to isolate the pump from the jack, a shuttle valve exposed to the said connections to opposite ends of the jack and which adapts itself positionally automatically in conformity with the selected one of said connections being served by the pump, connections from said shuttle valve to said counter-balance valve by which the pressure in the pump circuit can be applied to and isolated from the said counter-balance valve so that said



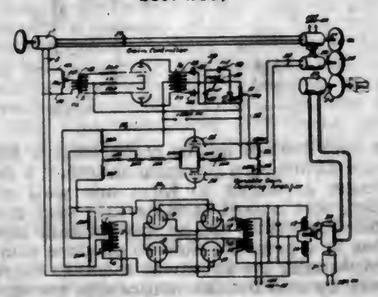
counter-balance valve will not open the connection from the appropriate end of the jack cylinder to said discharge outlet until the said shuttle valve is actuated by pump pressure to introduce a control of said discharge opening which is dependent upon and maintained by the fluid pressure in the said connections to the jack so that the discharge from the jack cylinder must be proportional to the rate of pressure feed from the pump to the jack cylinder, and a check valve in the connection which serves the load raising side or end of the jack and serving to isolate the shuttle valve from the oil under pressure between said latter side or end of the jack and the main valve when the main valve spool is set otherwise than in the position at which the load is being raised by the jack.

2,654,999

CONTROLLED DAMPING SERVO MECHANISM

Ralph I. Berge, Dayton, Ohio

Application June 19, 1951, Serial No. 232,438
4 Claims. (Cl. 60—53)
(Granted under Title 35, U. S. Code (1952), sec. 266)



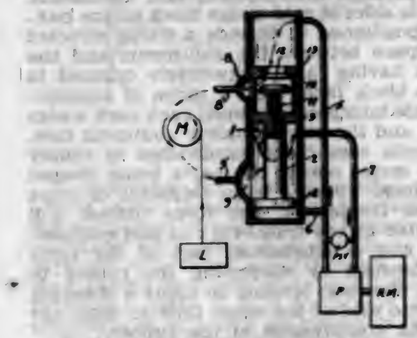
3. In a servomotor system having means responsive to a condition to be controlled for producing a control signal, servo amplifier means responsive to said control signal to produce an amplified control signal, servomotor means responsive to said amplified control signal to control said condition and damping generator means responsive to the rate of change of position of said servomotor to vary the effect of said control signal upon said servomotor, an improved means to reduce lag in the servomotor system comprising: a variable gain amplifier having means to connect its input to the output of said damping generator and having means to connect its output to the input of said servo amplifier, and means responsive to the magnitude of said control signal and to the rate of change of magnitude of said control signal to vary the gain of said variable gain amplifier.

2,655,000

PUMP AND MOTOR HYDRAULIC SYSTEM AND CONTROL VALVE MEANS THEREFOR

Rasmus Vestre, Oslo, Norway, assignor to Hydraulik A/S, Brattvaag, near Aalesund, Norway

Application April 25, 1946, Serial No. 664,950
In Norway March 23, 1942
Section 1, Public Law 690, August 2, 1946
Patent expires March 23, 1962
3 Claims. (Cl. 60—53)



3. In a hydraulic transmission having a motor and a pump, a valve controlling the flow of hydraulic fluid from the pump to the motor and comprising an elongated housing and a slide movable in said housing, pipes connecting the pressure side of the pump with the two ends of said housing and connecting the suction side of the pump with substantially the middle of said housing, two pipes connecting said motor with said housing on opposite sides of said housing middle, said slide being positionable to establish communication between one of the motor pipes and the suction pipe while interrupting communication between the other motor pipe and the suction pipe, said slide having supply lines located at opposite ends thereof and leading from the pressure pipes to the motor pipes, and check valves located in said supply lines and operable to permit the flow of fluid only in the direction of the motor.

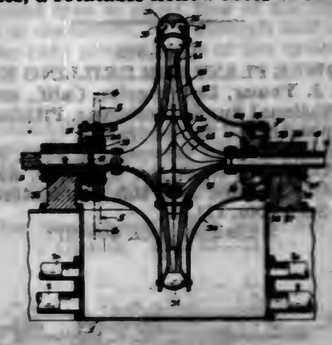
2,655,001

PUMP AND TURBINE HYDRAULIC DRIVE

John Napoli, Monterey, Calif.

Application March 29, 1952, Serial No. 279,486
2 Claims. (Cl. 60—54)

2. In apparatus of the character described, a hollow rotatable water distributing member mounted for rotation about a horizontal axis and carrying a plurality of circularly arranged and uniformly spaced nozzles, the said water distributing member having axial water inlet openings in its opposite ends, a water supply tank positioned beneath the water distributing member, rotatable axial pipes secured to the opposite ends of the water distributing member, pump means having inlets connected to the tank and outlets connected to the pipes, a core member secured to and positioned centrally in the water distributing member, the said core member having a plurality of uniformly spaced spiral water conveying channels in its sides connecting the axial pipes and the nozzles, a rotatable hollow rotor enclosing the



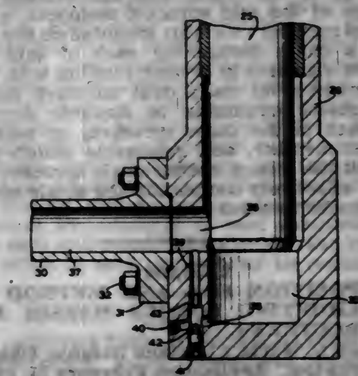
water distributing member and mounted for rotation in a direction opposite to the direction of rotation of the water distributing member, a plurality of spaced peripheral blades carried by the rotor and arranged to intercept the streams of water discharged by the nozzles, and mechanical coupling means operatively connecting the water distributing member and the rotor, whereby the water distributing member and the rotor are simultaneously rotated.

2,655,002

LIQUID PRESSURE TRANSMISSION SYSTEM

Howard Terhune, Alliance, Ohio, assignor to Hydrogress Inc., New York, N. Y., a corporation of Delaware

Application September 11, 1952, Serial No. 308,985
2 Claims. (Cl. 60—54.5)



1. A counter-blow hammer having an upper ram, a lower ram, means for supporting said rams for movement relative to each other, means for moving the upper ram downwardly, and means actuated by the downward movement of the upper ram for moving the lower ram upwardly, said last named means comprising a liquid pressure transmitting system including a piston operatively connected to the upper ram to move therewith, a cylinder within which the piston operates, said cylinder having a passage, a second piston operatively connected to the lower ram to move therewith, a second cylinder in which

the second piston operates, said second cylinder having a passage, a manifold connecting said passages, and a check chamber at the lower end of the first cylinder, said system being filled with liquid whereby downward movement of the upper ram and the first piston will cause upward movement of the lower ram and the second piston, said manifold being connected to said first cylinder above the check chamber.

2,655,003
POWER PLANT FOR DRILLING RIGS
Forrest J. Young, Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Original application December 3, 1945, Serial No. 632,342, now Patent No. 2,602,635, dated July 8, 1952. Divided and this application July 1, 1950, Serial No. 171,617
5 Claims. (Cl. 60—97)

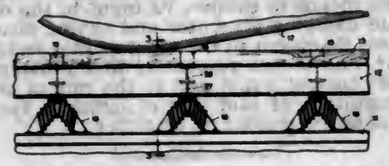


1. In a well drilling power plant, the combination of: a longitudinally extending frame, a pair of engine assemblies positioned transversely of the frame in parallel relation, each engine assembly including a dual sprocket member fixed on a power shaft, a clutch shaft parallel to and positioned between said power shafts, a single sprocket member fixed to the clutch shaft, means for rotatably supporting said shafts including an outboard supporting bearing for each of said shafts, each positioned immediately adjacent a side edge of the frame and immediately adjacent one of the said sprocket members, a single sprocket member rotatably mounted on the clutch shaft, a chain connecting each of said single sprocket members in driving relation with one of the sprockets on each dual sprocket member, drive chains extending in opposite directions from each of the other sprockets on each dual sprocket member, and releasable clutch means adjacent the second named single sprocket member for selectively connecting the single sprocket members for rotation as a unit.

2,655,004
COMPOSITION FOR AND METHOD OF SOLIDIFYING POROUS MASSES AND STRUCTURES
Louis S. Werts, Cleveland Heights, Ohio
No Drawing. Application February 25, 1946, Serial No. 650,123
26 Claims. (Cl. 61—36)

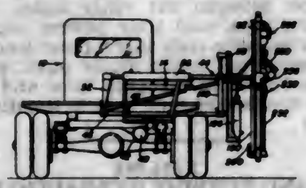
1. A readily flowable and pumpable, fluid, hydraulic cement slurry capable of flowing without substantial segregation of solids over long distances into and through the interstices of porous masses to solidify the same and comprising a hydraulic cement, water, and from 0.005% to 0.25% of suspending agent by weight of the total solids, said suspending agent consisting of water-soluble cellulose ether, and the solids of said slurry all being finely divided, inorganic, non-fibrous particles.

2,655,005
WHARF FENDER
William P. Kinneman, Westfield, N. J., assignor to Raymond Concrete Pile Company, New York, N. Y., a corporation of New Jersey
Application October 31, 1952, Serial No. 315,944
11 Claims. (Cl. 61—48)



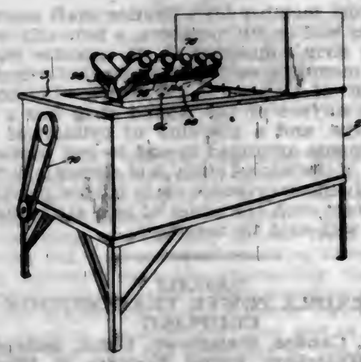
1. In a wharf fendering arrangement the combination of a fendering framework supported on piles and extending longitudinally of and in spaced relation to the face of a wharf, a plurality of cushioning units mounted between said framework and the wharf at spaced positions, each of said units comprising a pair of spaced apart abutments mounted at one side of the space between the framework and wharf, a wedge block means mounted at the other side of said space and at a position intermediate said abutments, the opposite sides of said wedge block means having faces positioned to provide a wedge directed into the space between the abutments and the abutments having faces respectively opposed to the wedge block faces, and a series of cushioning elements interposed between each such wedge block face and the corresponding abutment face, said elements comprising sandwiches of rubber bonded to metal plates, the parts being shaped and positioned whereby upon collisions of ships against the framework, the force thereof will be distributed by the framework to said cushioning units and a substantial part of the force will be absorbed by subjecting the rubber to forces in a direction tending to apply a shearing effect thereto and at the same time to some extent causing compression of the rubber.

2,655,006
FENCING MACHINE
Kenneth H. Hoen, Billings, Mont., and James M. Archer, deceased, late of Billings, Mont., by Gilbert M. Williams, administrator, Billings, Mont.; Ruby E. Archer, administratrix de bonis non of said James M. Archer, deceased; assignors to Pioneer Fencing Co., Inc., Billings, Mont., a corporation of Montana
Application August 24, 1950, Serial No. 181,204
19 Claims. (Cl. 61—73)



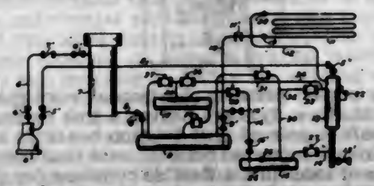
1. In an automatic post driving device disposed on a vehicle which operates in the sequential steps of operating a pilot member to form a pilot hole in the ground, and swinging the pilot member from above the pilot hole and then actuating a hammer to drive a post in the pilot hole; the structure comprising a support secured to the vehicle, a standard carried by said support and having operatively connected therewith means for rotating said standard about a horizontal axis, and means for rotating said standard about an intersecting horizontal axis, a carriage disposed on said standard with a pilot hole forming member secured to said carriage, a post driving hammer secured to said carriage and means operatively connected to said hammer, and actuated in response to a movement of said carriage for rendering said hammer operative.

2,655,007
SHELL FREEZER AND METHOD OF FREEZING LIQUIDS
Joseph H. Lazar, Chicago, Ill., assignor to Refrigeration Systems, Inc., Chicago, Ill., a corporation of Illinois
Application May 29, 1951, Serial No. 228,893
8 Claims. (Cl. 62—104)



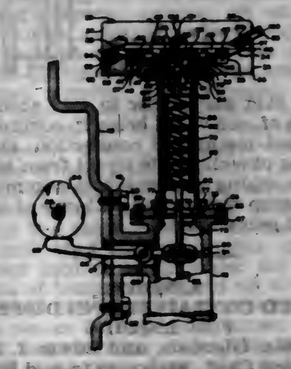
1. Apparatus for freezing plasma, comprising a tank, means in said tank for rotatably supporting containers of said plasma therein, means in said tank for cooling said containers to a temperature value below approximately —40° C., said tank having upwardly opening notches receiving associated necks of said containers, and means externally of said tank for positively heating said necks to a temperature value above the freezing point of said plasma.

2,655,008
LIQUID REFRIGERANT TRANSFER IN REFRIGERATION SYSTEM
Harry Sloan, Brookfield, and Erich J. Kocher, Milwaukee, Wis., assignors to The Vilter Manufacturing Co., Milwaukee, Wis., a corporation of Wisconsin
Application April 11, 1949, Serial No. 86,782
3 Claims. (Cl. 62—115)



1. In a refrigerating system including the conventional compressor having a suction line for returning evaporated refrigerant to the compressor and having a high pressure refrigerant line, an accumulator drum interposed in the suction line for collecting liquid refrigerant to prevent delivery of the same to the compressor, a liquid trap located below the accumulator drum and having connection with the drum for receiving liquid refrigerant therefrom by gravity flow, a second liquid trap having an elevated position with respect to the first mentioned trap, conduit means joining said traps, means supplying high pressure gaseous refrigerant from said high pressure refrigerant line to the first mentioned trap to effect a flow of the liquid refrigerant therein through said conduit means to the second trap, a connection from the second trap to the high pressure refrigerant line, and other means supplying high pressure gaseous refrigerant from said line to the second trap to effect flow of the liquid refrigerant in the second trap through said connection to the high pressure side of the system.

2,655,009
REFRIGERATION SYSTEM FOR VEHICLES
JB Johnson, Tyler, Tex., assignor of twenty-four per cent to Wilford C. Thompson and twenty-four per cent to Pickens Morris, both of Tyler, Tex.
Application November 17, 1949, Serial No. 127,920
2 Claims. (Cl. 62—117)

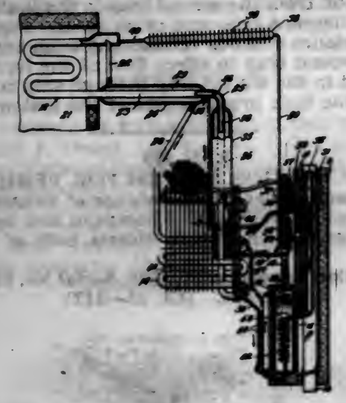


2. A refrigeration system for motor vehicles including a compressor, a condenser, a liquid refrigerant receiver, an expansion valve, and an evaporator connected by conduits, said compressor including a diaphragm and yieldable means for reciprocating the same and a control means for said compressor comprising a pivotally mounted bell crank lever one end thereof terminating in a yoke, enlarged bearing portions upon said yoke constructed and arranged to engage said diaphragm, a control wire secured to the opposite end of said bell crank lever whereby upon operation of said control wire to pivot said bell crank lever said bearing portions will engage said diaphragm to permit limited movement thereof, said control means being effective to control the capacity of said compressor between zero and maximum whereby the refrigerating effect of said system may be controlled.

2,655,010
ABSORPTION REFRIGERATION
Wilhelm Georg Kegel, Stockholm, Sweden, assignor to Aktiebolaget Elektrolux, Stockholm, Sweden, a corporation of Sweden
Application July 14, 1949, Serial No. 104,771
In Sweden July 22, 1948
13 Claims. (Cl. 62—119.5)

1. In absorption refrigeration apparatus having a plurality of parts including an evaporator and absorber and connections therebetween for circulation of inert gas therethrough, one of said parts functioning to transform refrigerant vapor to liquid, a pump system providing means for conducting liquid refrigerant from said one part to said evaporator by vapor lift action under the

influence of a column of liquid serving as a reaction head, another of said parts providing a vessel for holding liquid in said column which is connected to receive liquid from said one part and in thermal exchange relation with the connection through which relatively cool inert gas



flows from said evaporator to said absorber, the vapor space of said vessel being in communication with said last-mentioned connection, and means for draining objectionable liquid from said pump system comprising a connection communicating with said pump system and with one of said parts outside said pump system.

2,655,011

COMBINED CONTAINER AND DISPENSER FOR LIQUIDS

Orden E. Ihle, Glendale, and Edwin J. Kapteyn, Los Angeles, Calif., assignors to said Ihle, doing business as Ihle Manufacturing Company, Glendale, Calif.

Original application December 6, 1948, Serial No. 63,814, now Patent No. 2,559,877, dated July 10, 1951. Divided and this application April 30, 1951, Serial No. 223,704

4 Claims. (Cl. 62—149)



1. A liquid containing and dispensing device, comprising: a receptacle adapted to contain and dispense a liquid therefrom; a refrigerant container adapted to store a refrigerant in heat transfer relation with said liquid within said receptacle; an agitator disc rotatable within said receptacle and provided with at least one permanent magnet bar extending chordally thereof; a driving disc spaced from and disposed coaxially with said agitator disc outside of said receptacle, said driving disc having at least one permanent magnet bar extending chordally thereof, said driving disc magnet and said agitator disc magnet providing a magnetic flux extending between said discs to effect rotation of said agitator disc within said receptacle when said driving disc is rotated outside of said receptacle; and power means disposed outside of said receptacle for rotating said driving disc.

2,655,012

FLEXIBLE SHAFT

Harold E. McCrory, Dayton, Ohio, assignor to Master Vibrater Company, Dayton, Ohio, a corporation of Ohio

Application July 20, 1949, Serial No. 105,851

7 Claims. (Cl. 64—3)



1. A core member for a flexible shaft assembly, including end or tip members, a helically wound metallic strip connected at its opposite ends to said tip members, said strip being preformed to a condition of transverse curvature whereby the internal surface of the wound strip has a concave shape, and a plurality of cylindrical solid slug elements arranged in end to end contacting relation in the wound strip, said elements defining an axially incompressible train having peripheral line contact with the edges of said strip and end contact with said tip members.

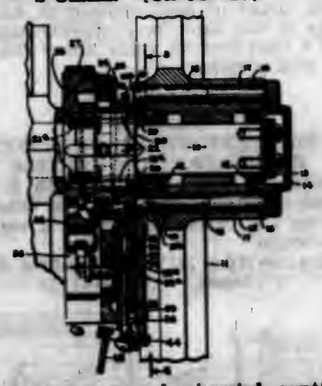
2,655,013

FLEXIBLE POWER TRANSMISSION COUPLING

Zenas P. Candee, Watertown, Conn., assignor to The Waterbury Farrel Foundry & Machine Company, Inc., Waterbury, Conn., a corporation of Connecticut

Original application June 26, 1947, Serial No. 757,227. Divided and this application December 6, 1950, Serial No. 199,472

1 Claim. (Cl. 64—15)



In a power press, a horizontal continuously driven shaft, a flywheel having a hub embracing said shaft, a pair of anti-friction bearings and a spacer sleeve mounted between said shaft and the interior of said hub, a flexible coupling for yieldably joining said flywheel to the driven clutch jaw of a power press, said coupling comprising a plurality of elongated solid stepped spring dowel pins parallel to said shaft and having their large ends fitted for their entire lengths in a like number of longitudinal cylindrical bores of uniform diameter located in said hub, equidistantly spaced around the axis of said flywheel and held by friction from rotation and sliding with respect thereto, the other end portions of said dowel pins being reduced in diameter to provide clearance from said bores and having rounded

end knobs, and a ring-shaped clutch-driving plate located adjacent said hub and coaxial therewith, said plate having a plurality of openings embracing the greatest circumference of said rounded knobs, whereby said dowel pins will be laterally flexible in said plate, permitting it to have a self-centering floating action with respect to said hub.

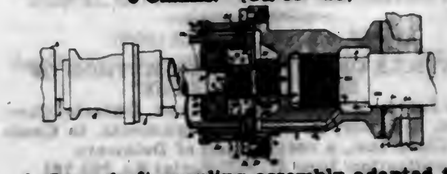
2,655,014

FLEXIBLE COUPLING WITH THRUST LINK

Chapman J. Walker, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application November 17, 1951, Serial No. 256,937

6 Claims. (Cl. 64—23)



1. In a shaft coupling assembly adapted to be interposed between axially spaced shaft end portions, the combination of a central axially extending connecting rod, a torque tube coaxially surrounding and radially spaced from the connecting rod, and a pair of coupling sleeve assemblies disposed over the connecting rod at the respective ends thereof; each coupling sleeve assembly comprising a cup member having a central opening disposed over the end of the connecting rod with the open end of the cup coaxially surrounding the end of the rod and having a radially extending rim portion, a spherical seat member disposed within the cup and having a central opening through which the end of the connecting rod projects freely; a hemispherical thrust member engaging said seat member and supported on a reduced diameter end portion of the connecting rod, means for securing said hemispherical thrust member comprising retainer nut means in threaded engagement with the extreme end portion of the connecting rod and having one end portion abutting the hemispherical thrust member, shim means disposed at either side of the hemispherical thrust member for effecting limited axial adjustment thereof on the connecting rod, the other end of the retainer nut defining a radially extending abutment surface adapted to define a small axial clearance space with an adjacent end surface of the adjacent shaft end portion, said coupling sleeve assembly including also an outer sleeve member having one circumferential end portion secured to the outer circumferential portion of said cup rim portion and extending axially toward the other coupling sleeve member in radially spaced relation with said cup member to define an annular space in which is disposed one end of the torque tube member, said torque tube end portion having a circumferential row of external spline teeth engaging cooperating internal splines in the outer sleeve member, the annular space between tube and outer sleeve being of sufficient axial length relative to the torque tube spline teeth that the tube is free to shift axially in said annular space, and oil dam ring means secured to the end of the outer sleeve member remote from said cup rim portion and projecting inwardly to define an axial clearance space between the end of the torque tube and the flange of the cup member, whereby said coupling sleeve assembly is free to slide axially a limited distance relative to the torque tube as determined by said axial clearance space.

2,655,015

THERMALLY RELEASABLE TORQUE LIMITING CLUTCH

François Linder, Bois-Colombes, France

Application January 21, 1948, Serial No. 3,633

In France January 20, 1947

2 Claims. (Cl. 64—30)



1. Torque limiting device including a hub member provided with radial splines parallel to the axis, discs provided with grooves and sliding over the splines of the hub member, a cup shaped member coaxial with the hub member, partly overlapping the latter and provided inside with splines parallel to the axis, grooved discs inserted between the first said discs and sliding along said internal splines, an annular plate mounted at the edge of the cup-shaped member, springs bearing at one end upon the annular plate and distributed around the axis inside the cup-shaped member, a ring-shaped member located in said cup-shaped member urged by said springs towards the disc pack having an annular projection with a shoulder, an expansible ring made of nonfusible material having a great coefficient of expansion located between said annular projection and the disc pack and positioned by the shoulder, said shoulder having a height such that said expansible ring may get clear from said shoulder under the action of a given rise of temperature, and an abutment provided inside the cup-shaped member for limiting the stroke of the ring-shaped plate when the ring is expanding under the action of the heat and gets clear from the shoulder which positions said ring.

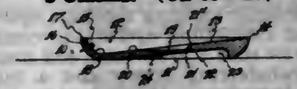
2,655,016

SUMP-DRAINED DISH STRUCTURE

Richard Hudson, Madison, N. J.

Application December 14, 1950, Serial No. 200,723

3 Claims. (Cl. 65—15)



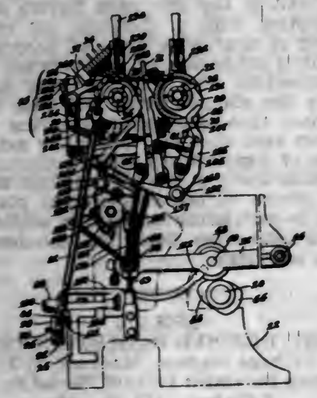
1. A foundation dish comprising a shallow body of peripherally convex form having a marginally convexly curved major portion of its upper surface countersunk asymmetrically to provide a plane-surfaced and uncovered sloping bottom for the countersink as viewed in vertical cross section along one diameter and a level completely vertical rim surrounding said countersink, said sloping bottom forming a drainage surface and having its periphery arranged substantially internally tangential to the body periphery at the most elevated point of said surface, said sloping drainage surface also being flush with the rim of the countersink at the region of peripheral tangency with the body periphery, the side face of the countersink elsewhere than at said region of tangency being smoothly curved downward and inward as viewed in vertical cross section into tangential mergence with the sloping drainage surface to provide a sump at the lower area thereof and a spoon guide extending in horizontal plan along the periphery of said surface in both directions from the deepest part of the sump in a smooth large radius curve.

2,655,017
FRAME FOR MAKING SCALLOPED CROCHET EDGING
Bessie L. Scott, Altus, Okla.
Application June 30, 1950, Serial No. 171,316
2 Claims. (Cl. 66—1)



1. A device of the character described comprising a pair of elongated parallel legs interconnected at one end, and an inwardly extending apron of shorter length than said legs inwardly extending from one of the legs, said apron formed of a piece of sheet material.

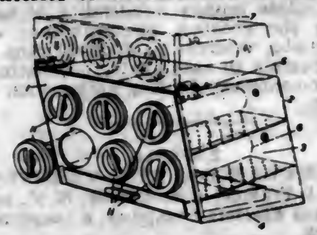
2,655,018
METHOD AND FASHIONING MEANS FOR KNITTING MACHINES
Herbert Erich Haehnel, West Reading, Pa., assignor to Textile Machine Works, Wyomissing, Pa., a corporation of Pennsylvania
Application June 18, 1948, Serial No. 33,748
32 Claims. (Cl. 66—89)



1. In a straight knitting machine operating in knitting and fashioning cycles, the combination of yarn carrier rods and movable end stops therefor, loop transferring points and a fashioning mechanism including said rods, stops and points, said mechanism adapted when thrown into action to move said stops in the widening direction during a knitting cycle while preventing movement of the points and to operate the points to transfer loops outwardly in a succeeding cycle of the machine while preventing movement of said end stops.

2,655,019
CONTAINER FOR YARN PACKAGES
Leonard George Harraway, Nottingham, England
Application August 28, 1950, Serial No. 181,767
In Great Britain April 22, 1949
10 Claims. (Cl. 66—125)

1. A container for yarn packages, particularly one which is suitable for straight bar knitting machines adapted to produce ladies' fully fashioned stockings, said container having a forward wall and a substantially vertical rear wall, means comprising said rear wall for releasably supporting a plurality of yarn packages from said rear wall in a horizontal or substantially horizontal position in the container, and means in said forward wall for guiding yarn from the packages to the exterior of the container in such manner



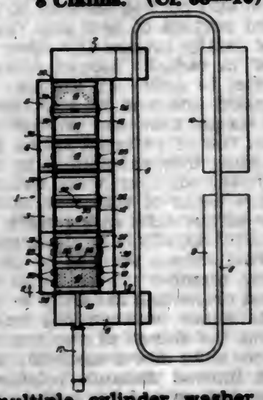
that the yarn is drawn from the packages in such direction substantially axially thereof.

2,655,020
ARTICLE OF HOSIERY AND METHOD OF MAKING THE SAME
Nora Jarvis Allen, Highland Creek, Ontario, Canada, assignor, by mesne assignments, to Coats & Clark Inc., a corporation of Delaware
Application June 4, 1951, Serial No. 229,701
In Canada January 24, 1951
10 Claims. (Cl. 66—178)



1. A knitted sock comprising a leg, a heel and a foot in which courses are formed by interconnected loops of yarn that is characterized by courses in the sides and front of the leg and the top of the foot extending in one direction and courses in the back of the leg, the heel and sole of the foot extending in a direction at right angles to the first-mentioned courses.

2,655,021
CYLINDER FEEDING DEVICE FOR PROGRESSIVE WASHING MACHINES
Milton L. Neher, Coral Gables, Fla.
Application November 6, 1947, Serial No. 784,421
8 Claims. (Cl. 68—10)



1. A multiple cylinder washer arranged for continuous operation and having means to supply washing fluid to the cylinders therein comprising at least two independently operable rotors disposed in axial alignment, clothes holding cylinders arranged for guided passage through each of said rotors and therebetween, actuating mechanism to move said cylinders through said rotors, drive means to independently revolve each of said rotors, and means to transmit the motion of said rotors to said cylinders comprising at least one band on each cylinder disposed for frictional contact with an adjacent interior surface of said cylinder guiding rotors.

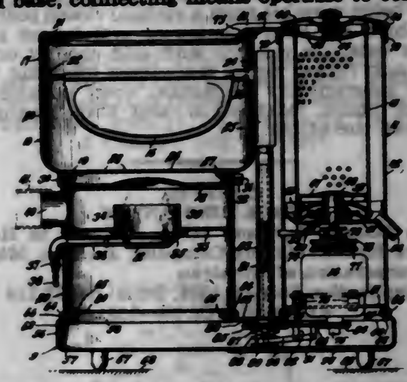
2,655,022
TOWEL DISPENSING AND LAUNDERING APPARATUS
Willis L. Wells, Clayton, Mo.
Application November 4, 1950, Serial No. 194,854
12 Claims. (Cl. 68—22)



1. A device of the type described, comprising a housing including a front wall containing an aperture therein; conveyor means within the housing passing adjacent the aperture; a plurality of individual towels mounted on the conveyor at spaced intervals; means for moving the conveyor past the aperture; means for causing a portion of one towel at a time to extend through the aperture for use; means for withdrawing the towel into the housing after use; and means within the housing for conditioning the towels for reuse.

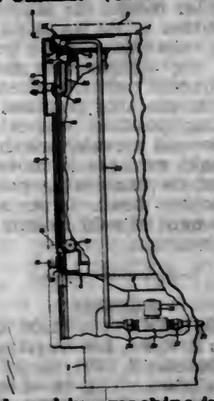
2,655,023
APPARATUS FOR WASHING CLOTHES AND CENTRIFUGALLY EXTRACTING LIQUID THEREFROM
Tord Erik Daniel Bilde and Rolf Bertil Johannes Hultberg, Stockholm, Sweden, assignors to Aktiebolaget Elektrolux, Stockholm, Sweden, a corporation of Sweden
Application June 25, 1947, Serial No. 756,890
In Sweden February 23, 1945
5 Claims. (Cl. 68—24)

5. In apparatus having a liquid extracting unit including an upright casing and a rotatable drum for centrifugally extracting liquid from clothes, such unit being mounted on a base, the combination of such a base having an opening affording access into the lower part of the casing, the casing having a partition intermediate the ends thereof to subdivide the latter into upper and lower compartments, means including said partition for journaling the drum for rotation in the upper compartment about a vertical axis, said last-mentioned journaling means supporting the entire dead-weight load of the drum and clothes therein from which liquid is adapted to be centrifugally extracted, an electric motor having a shaft, readily accessible mounting means on said casing adjacent said opening for removably supporting said motor in the lower compartment to position the shaft vertically therein for rotation about a vertical axis substantially in alignment with the stub shaft of said drum, means for supporting said base on a supporting surface, said supporting means providing a space beneath said base, connecting means operable to connect



said motor shaft and the drum, said connecting means including a clutch having cooperating elements associated with the drum and motor shaft, respectively, the space beneath said base by itself being of insufficient height, when said base is being supported on the supporting surface, to house said motor in its entirety in said vertical position, said elements being freely separable when said motor is withdrawn from the lower compartment, and said element associated with said motor accompanying the latter upon its removal from said casing.

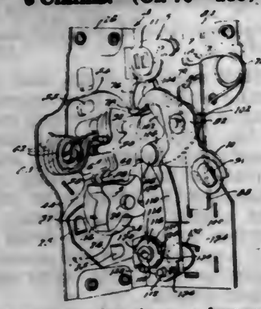
2,655,024
WASHING MACHINE WATER INLET SYSTEM
Henry C. Sway, Louisville, Ky., assignor to General Electric Company, a corporation of New York
Application October 31, 1952, Serial No. 317,924
7 Claims. (Cl. 68—207)



1. In a dishwashing machine including a cabinet enclosing and supporting an enclosed washing tub having vertical rear and side walls, a water supply system for said tub comprising a front closure door for said tub having an outer shell and an inside liner, means on said door forming an outer water seal with said cabinet

when said door is closed, gasket means carried by said door liner cooperating with wall means on inside surfaces of said tub to provide an inside water seal between said tub and door, a water supply conduit extending within the cabinet and outside of the tub to a position over the top wall of the tub, a water inlet on said conduit projecting through said tub top wall in a position between said inner and outer seals, a funnel carried by said door liner having inlet and outlet openings with liquid trap means therebetween, said door being movable from a vertical closed position in which the inlet opening of said funnel is in water receiving relation with said conduit outlet and said funnel outlet discharges into said tub, to a substantially horizontal open position in which liquid retained in said trap means is drained therefrom.

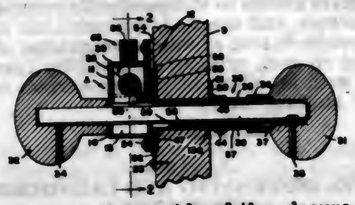
2,655,025
LATCH MECHANISM
Rollo Marple, Jackson, Mich., assignor to Hancock Manufacturing Company, Jackson, Mich., a corporation of Michigan
Application July 10, 1948, Serial No. 38,110
6 Claims. (Cl. 70—135)



3. In a latch mechanism, a keeper-engageable bolt movable to a freeing position away from the keeper, a dog engageable with the bolt to hold it against such freeing movement, movable means for releasing said dog from its holding position, a locking member movable between a blocking position in the path of movement of said movable means to prevent said releasing movement, and an unblocking position out of said path of movement, over-center means for urging said locking member into either of its positions, second movable means for releasing said dog from its holding position, said dog and locking member having surfaces in adjacent relation when said locking member is in its blocking position and said dog is in its holding position, dog-releasing movement of said second movable means causing engagement of said surfaces to move said locking member toward its unblocking position, whereby said over-center means is permitted to complete the movement of said locking member into its unblocking position.

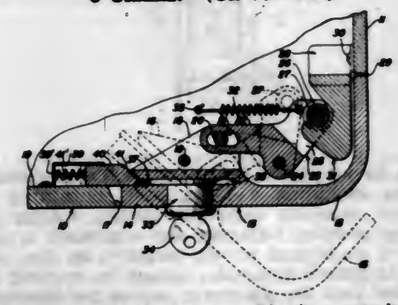
2,655,026
COMBINATION LOCK
Harrison B. Syler, Los Angeles, Calif.
Application October 9, 1951, Serial No. 250,537
14 Claims. (Cl. 70—146)

1. A combination lock for a two-sided closure, including a lock bolt housing; a lock bolt slidable inwardly and outwardly of said housing; means adapted for securing said lock housing to one side of the closure and spaced therefrom; means normally throwing said bolt into an outward position; retraction means to retract said bolt; combination lock means selectively retaining said retraction means against movement and permitting movement of said retraction means, adapted to be operated from the other side of said closure and including a rotatable sleeve; and means for operating said combination lock



means from said one side of the closure, including a dial secured to said sleeve and adapted to extend over a portion of said one side, said dial being disposed adjacent said housing and adapted to be located between said housing and said one side and extending outwardly of the plane of said housing.

2,655,027
DOOR LATCH
Thomas L. D. Lynxwiler, Ingleside, Ill., assignor to Mills Industries, Incorporated, Chicago, Ill., a corporation of Illinois
Application November 3, 1948, Serial No. 58,050
8 Claims. (Cl. 70—208)

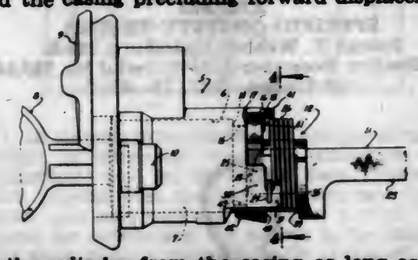


1. A door latch for a cabinet, comprising: a handle member pivotally mounted on said door; a catch member articulately connected to said handle member and pivotally mounted on said door, said catch member being moved into clamping engagement with a strike on the cabinet in the pivotation of said handle member to locking position, thereby holding said door in tightly closed position, a bolt movably mounted on said door and engageable with said handle member to retain the latter in said locking position; a rotatable cam on said handle member engageable with said bolt for disengaging the latter from said handle member; and biasing means operable to pivot said handle member from said locking position upon disengagement of said bolt therefrom to thereupon disengage said catch member from said strike and thereby unlatch said door.

2,655,028
REAR COMPARTMENT LOCK
Edward N. Jacobi, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application June 5, 1950, Serial No. 166,068
16 Claims. (Cl. 70—367)

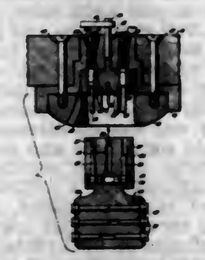
9. In a lock of the type having a bored casing in which a key actuated lock cylinder is rotatable and accessible at the front thereof for insertion

of a key: a circumferential rib on the casing extending part way around the casing bore at the rear thereof; a rearward extension comprising the rear portion of the lock cylinder, the junction of the body of the cylinder and said extension defining a rearwardly facing shoulder engageable with the front face of said rib to preclude rearward displacement of the lock cylinder; an outward radial projection on the side of said extension spaced from said shoulder and cooperable with the rear face of said rib to define a bayonet connection between the lock cylinder and the casing precluding forward displacement



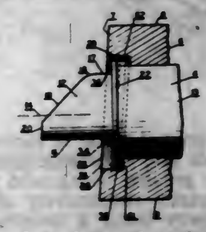
of the cylinder from the casing as long as said projection remains behind said rib; an abutment fixed on the casing and engageable by said projection to limit rotation of the lock cylinder in the direction to carry said projection beyond one end of said rib; an operating shaft including a part nonrotatably received in a radially opening well in said extension and projecting radially from the lock cylinder; means defining a second abutment on the casing engageable by said part to preclude rotation of the lock cylinder in the direction to carry said projection beyond the other end of said rib; and means for retaining said part in position in said well in the extension.

2,655,029
ADJUSTABLE KEY
Carlos Jaramillo Borda, Bogota, Colombia
Application July 13, 1951, Serial No. 236,566
1 Claim. (Cl. 70—411)



1. An adjustable key for use in locks of the type in which a plurality of tumblers extend parallel to the axis of the plug, said key comprising a body member defining a plurality of parallel passages extending from the forward end to the rearward end thereof, said passages being arranged for axial alignment with corresponding tumblers of the plug of the lock with which the key is to be used, the rearward end of said body member being a plane surface normal to said passages, a pin in each of said passages, the forward ends of said pins terminating within said passages, heads on the rearward ends of said pins bearing on the rearward end of said body member, a handle member, a hinge attaching said handle member to said body member, said handle member having a plane surface thereon which is normally disposed parallel to and spaced from the rearward end of said body member, said surface of said handle member engaging said heads of said pins and clamping the same against the rearward end of said body member, said handle member being swingable on said hinge to withdraw said surface of said handle member from engagement with the heads of said pins to permit removal of said pins from said passages, and releasable clasp means for retaining said handle member in position to clamp said heads of said pins against the rearward end of said body member.

2,655,030
FACEPLATE FOR DOOR LOCKS
Ernest L. Schlage, Burlingame, Calif., assignor to Schlage Lock Company, a corporation
Application April 17, 1950, Serial No. 156,417
9 Claims. (Cl. 70—456)



1. A face plate for a door lock having a bolt housing with a peripheral flange and having a backing plate adapted to abut one side of said flange comprising an apertured plate having an outer face in a predetermined plane and having an inner face formed with a recess having a wall adapted at least partially to encompass said flange and having a bottom in a plane inclined to said predetermined plane.

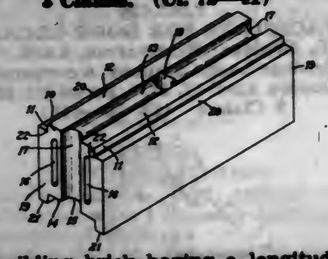
2,655,031
WEATHER SEALED LOCK MECHANISM
Edward N. Jacobi, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application May 5, 1951, Serial No. 224,789
8 Claims. (Cl. 70—455)



1. Lock mechanism of the character described, comprising: a lock body having a bore opening to the front of the body; a key controlled lock cylinder rotatable in said bore and having a key slot opening to the front of the cylinder; a disc-like cap seated on the front end of the cylinder and covering the same, said cap having a key opening therein registering with the key slot in the cylinder; a sleeve mounted on the body for sliding motion relative to the cylinder axially thereof, the front portion of said sleeve encircling the front end of the cylinder and having an inturned annular flange thereon overlying the front side of the cap near its periphery; resilient means reacting between the body and said sleeve and tending to urge the latter rearwardly with respect to the body and the cylinder so as to hold said annular flange on the front of the sleeve firmly engaged with the front side of the cap and thus preclude the entrance of moisture into the lock mechanism past the joint between said flange and the cap; and a shutter mounted on

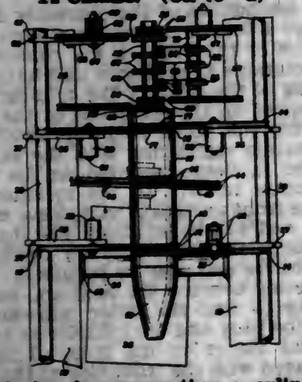
the front portion of the cylinder behind said cap for motion toward and from a position closing the key opening in the cap and blocking the entrance of moisture into the lock mechanism through said opening.

2,655,032
BUILDING BRICK
Harold F. Zagray, Canton, Ohio, assignor, by mesne assignments, to Precision Building Systems, Inc., Canton, Ohio, a corporation of Ohio
Application December 15, 1947, Serial No. 791,899
3 Claims. (Cl. 72—41)



1. A building brick having a longitudinal rib upon its upper side and a correspondingly shaped recess of slightly greater width and depth than the width and height, respectively of the rib, in its lower side, there being a longitudinal, centrally disposed groove in the rib and a corresponding groove in the recess, and vertical, central grooves in the ends of the brick communicating at their upper and lower ends with the ends of said longitudinal grooves, a central, vertical, opening extending entirely through the brick and communicating at opposite ends with the central portions of said longitudinal grooves, and openings extending longitudinally through the brick and spaced on opposite sides of said vertical grooves and openings, there being a longitudinal relief groove in the corner between each rib and the adjacent top surface of the brick, said top surfaces on each side of the rib and the lower surfaces on each side of the recess being ground true so that they will fit tightly against similar bricks.

2,655,033
SPIN-TESTING DEVICE
Ellis Burrell, Rochester, N. Y., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application June 19, 1952, Serial No. 294,336
14 Claims. (Cl. 73—1)



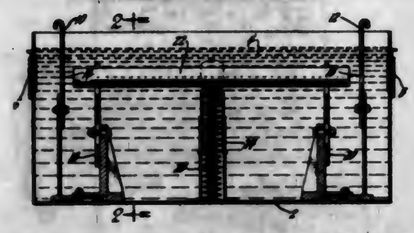
1. A device for supporting a cylindrical object to be rotated about its axis comprising a plurality of rotatably mounted pulleys, at least three endless belts each operatively engaging the periphery of at least one of said pulleys and the periphery of said object to make said object a common pulley for said belts, said pulleys being rotatably mounted beyond the circumference of said object and arranged along equiangular radii of said object whereby the pulls transmitted and exerted by said object on said belts are in equilibrium, and means for rotating said object.

2,655,034
SPECIFIC-GRAVITY TESTER
Joseph T. Webber, Galesburg, Mich.
Application December 3, 1947, Serial No. 789,445
22 Claims. (Cl. 73—32)



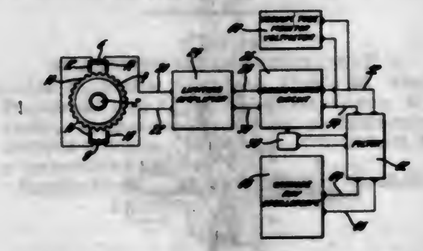
1. An instrument for measuring the specific gravity of water solutions of relatively heavy and relatively light liquids comprising a transparent sight tube having ribs projecting from the sides thereof, a semi-cylindrical wall spaced from the rear of said sight tube and having its edges joined to said ribs to define a test fluid passage along the rear of said sight tube, heat exchange fins formed on said sight tube and projecting into said passage, bell members of larger diameter than said tube on the ends of said sight tube and communicating therewith, impermeable diaphragms closing said bell members to form a closed chamber, cup shaped extensions formed on the ends of said sight tube and semi-cylindrical wall and forming cavities enclosing said bell members and diaphragms, a suction bulb secured to the upper of said extensions, a base of resilient material secured to the lower of said extensions and defining an inlet recess communicating with said passage along the lower of said diaphragms, an inlet connection to said recess in said base and adapted to be connected to a suction tube, a heavy instrument liquid partially filling said chamber, and a light instrument liquid filling the remainder of said chamber, said instrument liquids being non-miscible, one of said instrument liquids being colored to render the junction of said liquids visible, said ribs having scale indicia thereon adjacent to said sight tube, said heavy liquid having a density greater than the density of the heaviest solution to be tested and said light liquid having a density less than the lightest solution to be tested, said heavy liquid having thermal expansion characteristics similar to the heaviest liquid to be tested and said light liquid having thermal expansion characteristics similar to the lightest liquid to be tested.

2,655,035
ULTRASONIC TRANSMISSION TESTING
Wesley S. Erwin, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 24, 1949, Serial No. 112,067
8 Claims. (Cl. 73—67)



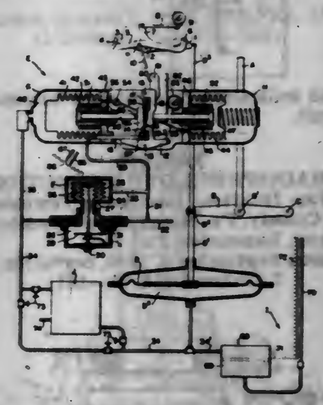
3. In an apparatus for testing articles of manufacture by ultrasonic waves, an ultrasonic wave transmitter and an ultrasonic wave receiver, a wave transmitting medium between said transmitter and said receiver providing a wave path, means for supporting the article to be tested in said wave path, a movable baffle arranged to be held out of said wave path by the article being tested when said article is positioned on said supporting means, and resilient means for biasing said baffle into said path when the article is removed from said path.

2,655,036
FREQUENCY MODULATED TORSIONAL VIBRATION ANALYZER
Frederick W. Chapman, Highland Park, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 1, 1947, Serial No. 777,197
3 Claims. (Cl. 73—68)



1. An apparatus for analyzing torsional vibrations of a rotating body comprising, in combination, an A. C. generator adapted to be coupled to the body for rotation thereby to generate an A. C. potential the frequency of which is directly proportional to the angular velocity of said rotating body, a limiting amplifier coupled to the output of the generator, a frequency discriminator circuit for converting frequency variations into amplitude variations coupled to the output of said amplifier, said discriminator circuit being adapted to develop a potential the instantaneous amplitude of which is indicative of the instantaneous deviation of the generated A. C. frequency from the tuned frequency of said discriminator circuit, means for tuning said discriminator circuit to the mean frequency of said A. C. generator, low pass filter means coupled to the output of said discriminator circuit to suppress potentials of generator frequency appearing in the output of said discriminator circuit, means coupled to the output of said filter means for exhibiting the said instantaneous potential developed by said discriminator circuit as an indication of torsional vibration of the body and means responsive to the output of said discriminator circuit for tuning said discriminator circuit to the mean frequency of the A. C. generator output.

2,655,037
FORCE MEASURING INSTRUMENT
Louis Gese, Jenkintown, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application January 15, 1946, Serial No. 641,310
4 Claims. (Cl. 73—141)

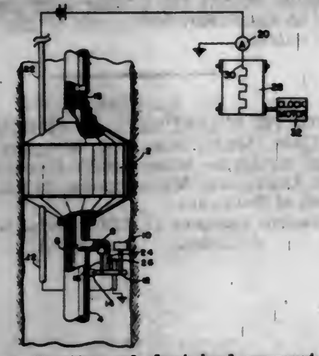


1. Force measuring apparatus comprising in combination a balancing device having a pressure chamber and a flexible diaphragm forming a movable wall of said chamber, means for applying to said diaphragm a force whose variations are to be measured, air controller means for maintaining a fluid pressure in said chamber which normally holds said diaphragm in a substantially constant normal position notwithstanding variations in said force acting against the other side of said diaphragm, and including automatic follow-up and reset mechanisms and an adjustable bleed valve, means responsive to movements of said diaphragm and cooperating with said follow-up and reset mechanisms to regulate the adjustment of said bleed valve, and means for measuring the fluid pressure in said pressure chamber.

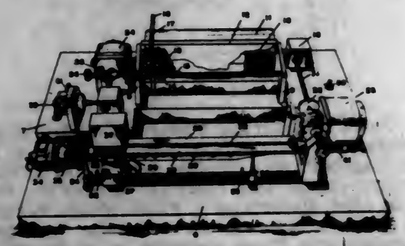
2,655,038
WELL FORMATION PACKER ASSEMBLY FOR MEASURING GAS-OIL RATIOS
Gerald D. Barton, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application June 4, 1949, Serial No. 97,110
5 Claims. (Cl. 73—155)

4. In a packer assembly for handling gas in a packed off zone of a well bore producing oil and gas, the combination comprising a well tubing, a packing element disposed about said tubing, there being an open-ended conduit in said tubing communicating with the zone above and with said packed off zone immediately below said packing element, a liquid level responsive valve means attached to said tubing and adapted to close the end of said conduit communicating with the zone immediately below said packing element at a predetermined liquid level in said packed off zone, a circuit including a switch connected to and actuated by said valve means which closes said cir-

cuit simultaneously with the closing of said liquid level responsive valve means, and means for producing an indication of electrical current flow in said circuit.



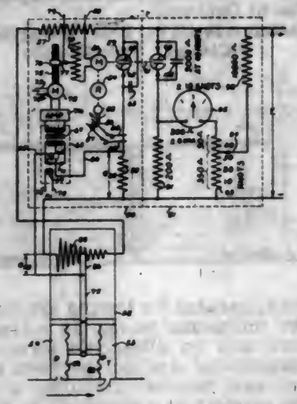
2,655,039
MAINSPRING DYNAMOMETER
Egbert Van Haaften, Lancaster Township, Lancaster County, Pa., assignor to Hamilton Watch Company, Lancaster, Pa.
Application September 8, 1949, Serial No. 114,601
7 Claims. (Cl. 73—161)



1. A dynamometer for measuring the torque of watch mainsprings during the winding and unwinding operation, comprising a pivoted beam, means for transferring the torque in said mainspring to a force applied at one end of said beam, means for winding said spring and thereby changing said torque movable weight means on said beam for counterbalancing said applied force during the changing period and means operatively connected with said weight means for constantly recording said change in torque.

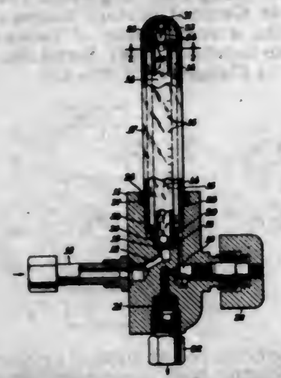
2,655,040
WATER SPEED INTEGRATOR AND INDICATOR
John B. Peterson, Bethesda, Md.; Ruth L. Peterson, administratrix of said John B. Peterson, deceased, assignor to Bendix Aviation Corporation, a corporation of Delaware
Application May 14, 1946, Serial No. 669,546
2 Claims. (Cl. 73—183)

1. In a speed integrator, a Wheatstone bridge circuit having a first arm including a reversing condenser and a fixed condenser in parallel, second and third arms each including a fixed resistance, and the fourth arm comprising a potentiometer, variable speed means operable in response to bridge unbalance for driving said reversing condenser, a fluid speed responsive device operable to adjust the position of the contactor on said potentiometer to unbalance the bridge and thereby to control said variable speed drive means for said reversing condenser to balance the bridge circuit when the bridge circuit becomes unbalanced by said fluid speed responsive device, and said variable speed drive



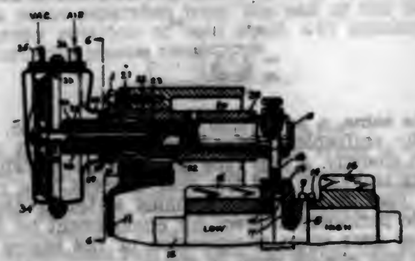
means for said reversing condenser being adapted to be connected to a distance measuring device.

2,655,041
FLOWMETER
Wilget J. Jacobsen, Plainfield, N. J., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application September 14, 1949, Serial No. 115,678
7 Claims. (Cl. 73—199)



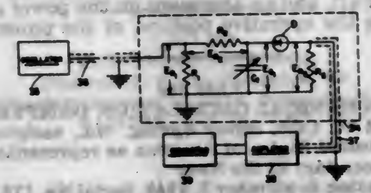
4. A flowmeter of the type having a float movable in a tapered tube comprising a metal base, concentric transparent tubes projecting above the top of said base, said base having an inlet connection on a side of said base, and an outlet connection on the base substantially opposite and coaxial with said concentric tubes, a valve substantially opposite and coaxial with said inlet connection, there being an inclined inlet passage in the base leading from said inlet connection to the inner one of said concentric tubes, an outlet passage in the base generally parallel to the axis of said concentric tubes leading downward from between said tubes in substantial alinement with a wall of said outer tube, a coaxial outlet passage below said valve, and a short transverse passage in the base connecting said downward outlet passage with said coaxial outlet passage leading to said outlet connection, said valve being located at approximately the junction of said transverse and downward outlet passages.

2,655,042
GEAR SHIFTING MECHANISM
John R. Almond, Cleveland, Ohio, assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application July 3, 1944, Serial No. 543,299
10 Claims. (Cl. 74—335)



1. The combination with a dual-ratio change-speed transmission gear mechanism effected by motor acceleration and including a change-speed gear shifter to effect different gear ratios, of a power shifter mechanism including a shifter rod to move a clutch to a position ready for mesh with a selected transmission gear of said mechanism, a double acting fluid pressure element having a stem slidably mounted in said rod, a spring interposed between said stem and rod by which the latter is yieldingly moved by said stem, a sleeve limiting the compression of said spring by said stem whereby the stem and rod can move as a unit under the influence of said power mechanism to place said clutch in the aforesaid position, and said spring acting to move the shifter rod farther in the same direction to cause final complete mesh of the selected transmission gears as they become substantially synchronized by deceleration.

2,655,043
PRESSURE MEASURING DEVICE
Charles M. Wolfe, Glendora, Guido M. Shultice, Pasadena, and Clyde W. Grow, Sierra Madre, Calif., assignors, by mesne assignments, to Aerojet-General Corporation, Cincinnati, Ohio, a corporation of Ohio
Application June 14, 1948, Serial No. 32,888
2 Claims. (Cl. 73—398)



1. An electrical network having an input and an output and being adapted to transmit to an indicating means responsive to the output, signals from a source of oscillations connected across the input, which are modified in response to pressure variations received by a pickup of the type having a variable impedance element the impedance of which varies in accordance with said pressure variations, said network comprising a first resistance element shunted across said input, said variable impedance element and a second resistance element arranged in series with each other, the series arrangement being shunted across said first resistance element, a rectifier element and a third resistance element arranged in series with each other, said last-named series arrangement being shunted across said variable impedance element, said third resistance element being connected across said output, whereby D. C. voltage having variations of instantaneous value corresponding to the impedance variations of said variable impedance element is impressed across said output and received by the indicating means.

2,655,044
HIGH VACUUM GAUGE
Jesse William Monroe Du Mond, Pasadena, Calif., assignor to California Institute Research Foundation, Pasadena, Calif., a corporation of California
Application August 8, 1949, Serial No. 109,109
14 Claims. (Cl. 73—399)

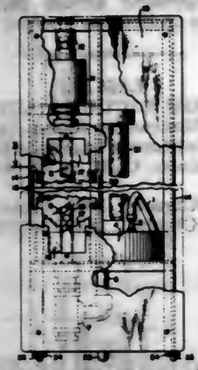


1. A gas pressure measuring device for low pressures such as those in the range from 0.001 micron to 100 microns involving: a pair of electrical elements forming the electrodes of a variable capacity adapted to be mounted in an evacuated region where the gas pressure is sufficiently low to exhibit the Knudsen effect; at least one of said elements being movable in response to molecular bombardment by the thermal motion of the gas molecules; and means for establishing zones of different temperature confronting opposite sides of said movable element while permitting free access for the molecules of the low pressure gas to either zone indifferently so as to cause a corresponding differential in intensity of molecular bombardment on said opposite sides of the movable element, thereby to effect displacement of said movable element, and electrical means for measuring the resulting change in electrical capacity between the movable and fixed elements relative to the value of said capacity when no temperature differential exists as a means of indicating the gas pressure.

2,655,045
MERCURY MANOMETER
John V. Hart, Havertown, and Earl E. Lakjer, Philadelphia, Pa., assignors, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application November 6, 1948, Serial No. 58,642
3 Claims. (Cl. 73—401)

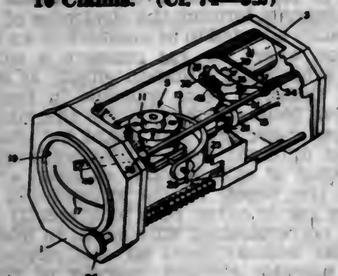
1. A manometer including, a long tube of transparent material forming part of a substantially U-shaped conduit adapted to contain a measuring liquid, inlet and outlet connections to the ends of said conduit for applying the pressure to be measured to the measuring liquid in

the conduit, a cabinet of opaque material totally enclosing said conduit and having a narrow slot through one wall aligned with said tube and through which said tube may be observed, an elongated light source in said cabinet parallel to said tube, a baffle wall of opaque material inter-



posed between said tube and said light source so as to shut off the direct rays of light from said tube and from the slot in said cabinet and to reflect said rays, and a pane of ground glass behind said tube and in the path of travel of the reflected rays of light from said source to the tube and the slot.

2,655,046
GYROSCOPE INSTRUMENT
Paul E. Seifried, New City, N. Y., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application February 29, 1952, Serial No. 274,129
10 Claims. (Cl. 74—5.2)



1. A gyroscope having a rotor adapted to spin about one axis, a support for said rotor mounted for angular movement about mutually perpendicular axes at an angle to said spin axis, a motor having polyphase windings for spinning said rotor, a brake element restraining angular movement of said support about one of said mutually perpendicular axes when said motor is deenergized, and a two-phase torque motor having its phase windings connected in series with two of the phase windings of said rotor motor and, when energized, operating said brake element to release said support.

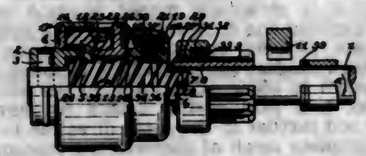
2,655,047
STARTING DEVICE
Edward J. Smith, Paxton, Mass., assignor to Silcraft Corporation, Worcester, Mass., a corporation of Massachusetts
Application February 9, 1951, Serial No. 210,164
1 Claim. (Cl. 74—7)

A starter for an internal combustion engine, a flay wheel therefore, and a small wheeled tractor support for the engine, said starter comprising a bracket, means detachably securing the bracket to the support adjacent the fly wheel at right angles to the plane of the latter and offset to one side thereof, a starter motor on the bracket, the motor having a shaft, the shaft being parallel to the fly wheel and in front



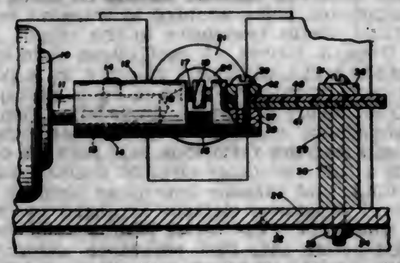
of the same, a battery to energize the motor, an axially shiftable starter gear on the shaft rotated thereby, a cup type gear on the fly wheel facing the shaft and the gear thereon, said cup type gear having a continuous series of teeth at the periphery thereof for engagement by the starter gear upon energization of the motor to drive the engine until it starts.

2,655,048
ENGINE STARTER DRIVE
James J. Digby, Elmira, N. Y., assignor to Bendix Aviation Corporation, a corporation of Delaware
Application August 11, 1952, Serial No. 303,734
4 Claims. (Cl. 74—7)



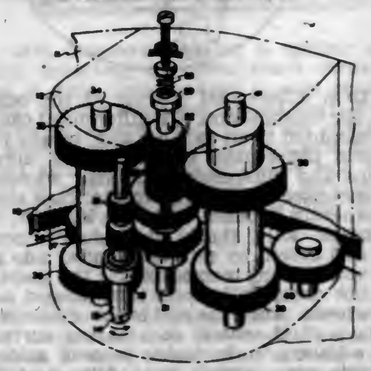
1. In an engine starter drive a power shaft, a driving head fixed thereon, a driving overrunning clutch member yieldably connected to rotate with the driving head, a screw shaft slidably journaled on the power shaft, a driven clutch member threaded on the screw shaft, yielding means normally holding the clutch members in engagement, a pinion slidably journaled on the power shaft and slidably but non-rotatably connected to the screw shaft, means for limiting relative longitudinal movement of the pinion and screw shaft, yielding means for holding the pinion in extended relation with respect to the screw shaft, and an abutment on the power shaft defining the operative position of the pinion.

2,655,049
MECHANICAL OSCILLATION DAMPER
Richard W. Cole, Silver Spring, Md., assignor to the United States of America as represented by the Secretary of the Navy
Application September 2, 1949, Serial No. 113,887
2 Claims. (Cl. 74—99)



1. A valve actuating mechanism for producing accurate valve control, comprising a selective directional motor, a rock shaft actuated by said motor, an oscillatory driving pin on said shaft, a pitman driven by said oscillator driving pin, a valve operating member reciprocally operated by said pitman, a strip of yieldable plastic fixed in substantially axial alignment with said rock shaft, and means for rigidly securing said strip at a point separated from the end of the shaft whereby rotation of said shaft will torsionally distort said plastic strip.

2,655,050
ANTIBACKLASH GEARING
Randolph E. Divette, Minneapolis, Willis H. Gille, St. Paul, and William L. Huntington, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application July 26, 1952, Serial No. 301,074
8 Claims. (Cl. 74—409)



1. In a gear drive, gear means having two sets of oppositely inclined teeth in fixed relation to each other and similar to a herringbone gear, a pair of helical gears in engagement with said gear means, said helical gears being relatively rotatable but axially fixed relative to each other, means biasing said helical gears in an axial direction, a spur gear attached to one of said helical gears, another spur gear attached to the other helical gear, and means arranged to be driven by said spur gears.

2,655,051
THROTTLE CONTROL
Charles W. Finki, Evanston, Ill.
Application October 28, 1950, Serial No. 192,754
6 Claims. (Cl. 74—536)



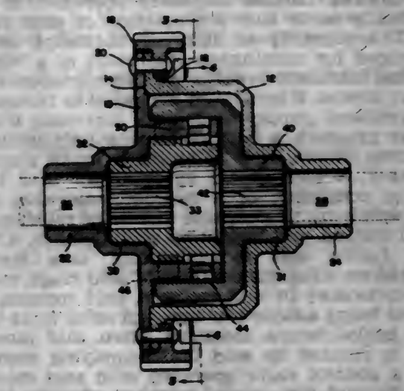
1. In a control mechanism, a flat sided casing, an opening in said casing, an upstanding handle portion formed on said casing, a rotatable lever mounted in said opening movable to and from said handle portion, a resilient member constantly urging said lever away from said handle portion, connection means for securing a Bowden mechanism wire to said lever from a plurality of directions, a ratchet formed in said opening, and a latch mechanism carried by said lever and co-acting with said ratchet.

2,655,052
IMPULSE SWITCH SILENCER
George J. Montalto, Huntington, N. Y., assignor to Telephonics Corporation, Huntington, N. Y., a corporation of New York
Application July 29, 1950, Serial No. 176,716
10 Claims. (Cl. 74—576)



1. In an electrical impulse switch having a ratchet wheel provided with teeth around its periphery, a hooked pawl adapted to engage the toothed periphery of said ratchet wheel, and means for rotating said pawl rearwardly over said ratchet wheel teeth and then to engage a tooth thereof to move the ratchet wheel with the pawl, the combination of a leaf spring interposed between the pawl and ratchet wheel teeth and terminating short of the pawl hook, and mounting means for one end of said spring carried by said pawl rotating means and moving therewith, said spring engaging a leading ratchet tooth to thereby hold the pawl from the back of the next ratchet tooth until released by said leading ratchet tooth.

2,655,053
TORQUE PROPORTIONING DIFFERENTIAL
Harry M. Patch, Seattle, Wash.
Application November 21, 1949, Serial No. 128,579
4 Claims. (Cl. 74—650)



1. In a power dividing differential, the improvement comprising: a housing formed of two housing members adapted to be secured in axial alignment, said housing members having axially aligned bearing seats formed, one on each of said members; a drive gear secured to said housing; an internal cam member journaled within one of said housing members; an external cam member journaled within the companion housing mem-

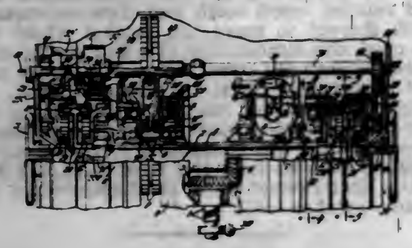
bers; a multiplicity of plungers disposed between said internal and said external cam members having a polygonal cross-section transversely and having end surfaces facing said cam members; a cage secured to one of said housing members having polygonal openings disposed to operatively position said plungers between said cam members; said external cam member having external cam surfaces with a cross-section showing a multiplicity of similar faces; said internal cam member having internal cam surfaces with a cross-section showing an equal number of similar faces; said plungers each having a pair of grooves in those surfaces facing said cam surfaces; and a pair of hardened, rotatable, anti-frictional rollers positioned in each pair of grooves, each pair of rollers having their axes of rotation lying in a plane substantially radially aligned with the axis of rotation of said cage.

2,655,054

CROSS DRIVE FOR HEAVY VEHICLES

Oliver K. Kelley, Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Original application July 21, 1947, Serial No. 762,414. Divided and this application November 4, 1948, Serial No. 58,197
11 Claims. (Cl. 74—710.5)



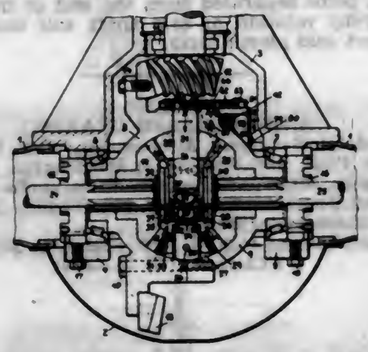
1. In fluid-pressure-supplied power drive mechanisms, wherein a power-output shaft is driven by a variable speed-ratio driving assembly, the combination of a friction brake means consisting of coacting friction members operative to vary gradually or to stop the rotation of said output shaft, a plurality of fluid jets including one jet arranged for continuous projection of a body of cooling lubricant over the friction surfaces of said brake means, a second jet arranged to furnish an intermittent supply of cooling lubricant thereto under pressure, a fluid pressure supply including a pump driven by said shaft, a brake applying member, a mechanical actuator for said brake means consisting of a manually-movable pressure-applying ring capable of limited rotation and axial motion and moved by said member, a fixed ring facing said movable ring, cam recesses formed on adjacent portions of said rings, rolling bodies located in said recesses, said recesses and bodies being adapted to exert an axial force upon said brake means members when said movable ring is rotated by said brake-applying member, and a control valve operated with said movable ring by said last-named member effective to deliver a fluid stream from said pump to said jets when said member is moved to cause the generation of said axial force by said movable ring, whereby the increased torque absorption force applied to said members by said mechanical actuator thru the action of said rings, recesses and rolling bodies occurs during the delivery by said valve of fluid to said jets so as to provide cooling action by said lubricant body of said members.

2,655,055

DIFFERENTIAL GEAR FOR MOTOR-DRIVEN VEHICLES

Paul Böttcher, Hamburg-Groszflottbek, Germany

Application April 5, 1952, Serial No. 280,817
4 Claims. (Cl. 74—711)



1. In a differential gearing of the bevel gear type, the combination of a differential case rotatably mounted in an axle housing, means for driving said differential case, a set of differential pinions and differential side gear wheels rotatably mounted in said differential case and being permanently in mesh with one another, two independent axle shafts individually connected with and driven by said differential side gears, a filler and braking member filling the space in said case not occupied by said pinions and said side gear wheels, said filler and braking member comprising a rigid central part having surface portions adjacent to the inside faces of said pinions and side gear wheels, said filler and braking member also comprising arcuate parts, each of said arcuate parts being formed by a pocket member having a cavity and expansible surface portions, the latter being adjacent to the top faces of the teeth of said pinions and side gear wheels, means for filling said differential case with a brake fluid, and passage means interconnecting said cavities and the interior of the differential case adjacent to the points of engagement of the teeth of said pinions with the teeth of said side gear wheels and transmitting the fluid pressure in the pressure zones in the differential gearing produced by the engagement of the teeth of said pinions and side gear wheels to said cavities, said arcuate parts of said filler and brake member expanding and said surface portion pressing against the top faces of the teeth of the pinions and side gear wheels upon increase of fluid pressure in said cavities.

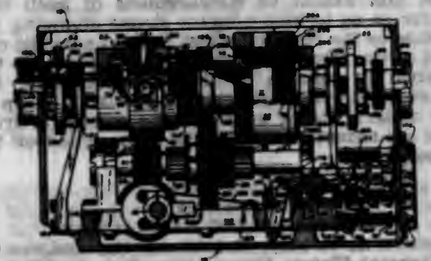
2,655,056

AUTOMATIC INFINITELY VARIABLE POWER TRANSMISSION

De Witt C. Clintsman, Watertown, N. Y.

Application January 31, 1952, Serial No. 269,283
12 Claims. (Cl. 74—752)

1. An infinitely variable ratio power transmission including a driving shaft and a driven shaft spaced apart in axial alignment, a differential gear mechanism therebetween in said axial alignment, said differential mechanism having a pair of oppositely disposed side gears and pinion gears in meah therewith journaled on a pinion spider which in turn is journaled within a pinion ring, one of said side gears being fixed on one of said shafts, and shift controlled connector means for selectively connecting either said other side gear or said pinion spider to the other of said shafts, a countershaft in parallel alignment with said driving and driven shafts, a shift controlled gear splined on said countershaft, said pinion ring including a gear means therewith, said other side gear including a gear means therewith, shift means for selectively engaging said splined double gear with either said pinion ring gear means or said other side gear means and simultaneously to



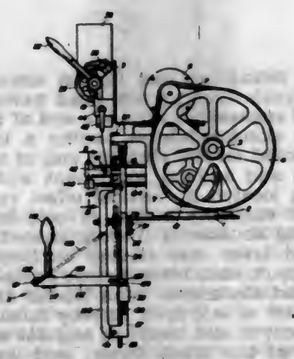
operate said connector means, a driving shaft controlled governor, a driven shaft controlled governor, a fluid pump geared to said countershaft, and driving shaft and driven shaft governor controlled means controlling the operation of said pump and thereby, through said crankshaft and gear connection to either said other side gear or said pinion spider, the ratio of the speed of either of said shafts to the other of said shafts.

2,655,057

SAW FILING MACHINE

Henry E. Hull, Worthington, Ohio, assignor, by mesne assignments, to Rockwell Tools, Inc., Columbus, Ohio, a corporation of Ohio

Application September 15, 1949, Serial No. 115,876
7 Claims. (Cl. 76—35)



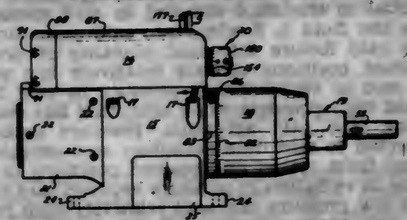
1. In a circular saw blade filing machine, at least one file yieldingly and adjustably secured in file holders, a generally reciprocating file carrier for said holders, a pivotable clamp mechanism for yieldingly holding a circular saw blade in working relationship with said file, an indexer for rotating said blade to bring successive preselected teeth thereof into registry with said file on each reciprocation thereof, a striking member on said carrier, and means actuated through said members each time said file carrier cycles whereby the movement of the file carrier and indexer is stopped after a predetermined number of cycles of said carrier have been completed and number of saw teeth have been filed.

2,655,058

POWER FEED MECHANISM

William Albert Eschenburg and David Dawson Pettigrew, Milwaukee, Wis., and Clarence Johnson, South Euclid, Ohio, assignors to Rockwell Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application March 7, 1951, Serial No. 214,284
22 Claims. (Cl. 77—32.5)



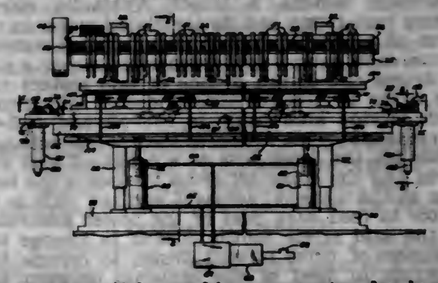
1. In a hydro-pneumatic mechanism having a power section containing a power piston and a control section containing a plurality of control pistons: separate shell-like housings for each of said sections having fluid passages at their opposite ends; an external machined mounting surface on one of said housings; a mating external machined mounting surface on the other of said housings; means for connecting said housings in assembled relation and maintaining the said surfaces in engagement with certain of said passages in register; open ended, cylindrical inserts for each of said housings adapted to respectively reciprocably receive said pistons and each having one end in fluid communication with said registering fluid passages to form a closed fluid reservoir and having their opposite ends in communication, through others of said fluid passages with a source of pneumatic pressure adapted to be selectively applied to said power piston or said control pistons to effect desired operation of said mechanism.

2,655,059

TOOL OPERATING MACHINE HAVING APPARATUS FOR POSITIONING WORK IN A PLURALITY OF POSITIONS

Russell V. Halvorsen, Antioch, William F. Krause, Chicago, and Rudolph J. Polivka, Berwyn, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

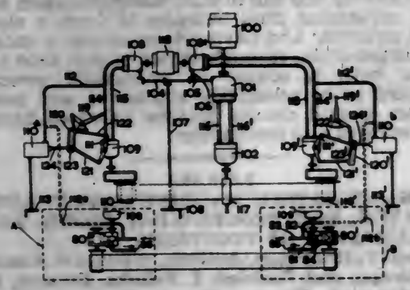
Application February 16, 1951, Serial No. 211,318
14 Claims. (Cl. 77—64)



1. In an article working apparatus having a rotatable tool, an article supporting table for guiding said article to and from said tool, and actuating means for reciprocating said table, the combination therewith of a fixture for moving an article on said table into a plurality of predetermined positions comprising a first member on said table reciprocable through a predetermined stroke in one direction, a second member

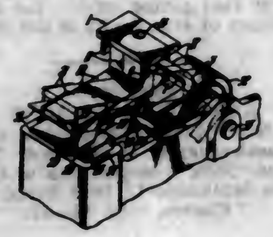
reciprocable on said first member through a predetermined stroke in another direction transverse to said one direction, means on said second member for holding said article, fluid actuators operable at a relatively low pressure for advancing and retracting said first and said second members, means for selectively directing fluid to said actuators at a predetermined relatively high pressure, means for creating a pressure differential in the fluid directed to said actuators while the fluid is flowing into said actuators to move said fixture into said plurality of predetermined positions at said relatively low pressure and to equalize said pressure in said fluid to said high pressure when said fluid has ceased flowing into said actuators, pressure switches connected to said fluid actuators and actuatable to and from closed and opened positions in response to variation in pressure between said relatively low pressure and said relatively high pressure, and control means including said pressure switches operable in response to actuation of a pair of said switches to initiate the actuation of said actuating means to reciprocate said table.

2,655,060
HYDRAULIC DRIVING MEANS FOR WINDING AND ROLLING MACHINES
Arthur Spencer and John Hewitt, London, England, assignors to Vickers-Armstrongs Limited, London, England, a British company
Application March 3, 1948, Serial No. 12,848
In Great Britain March 19, 1947
4 Claims. (Cl. 80—32)



1. A reversible rolling mill, comprising rolls for rolling the material, a power unit driving the rolls, a pair of hydraulic pumps, a prime mover driving said pumps, and a pair of variable stroke hydraulic motors, a closed hydraulic circuit across each pump and its associated motor in the form of a supply conduit and a return conduit across each pump and its associated motor, a pair of drums one driven by one of said motors and the other by the remaining motor, said drums each serving alternately to coil-off and coil-on the material being rolled, so that as one acts as a coiler-on, the other acts as a coiler-off and vice versa and the coiler-off drum transmits the tension in the material across it and the rolls to its motor to feed back part of the power generated to the said prime mover, means to change the direction of drive to said drums to reverse the direction of feed of the material between the rolls, fluid pressure actuated means to increase the stroke of the coiling-on drum motor as the coil diameter increases so as to increase the torque applied to said drum and to maintain a substantially constant horsepower in the motor driving said drum, a pair of hydraulic fluid pressure actuated drivers having a source of operative fluid pressure distinct from that in the aforesaid pump-motor circuits and connected to the stroke varying means of the two motors to positively actuate the stroke varying means both for increasing and decreasing the motor stroke, a valve with each said driver controlling the flow of pressure fluid to its associated driver both as regards direction and effective pressure, means receiving a controlling signal from the supply conduit of each pump and motor regulating the position of each said valve to control the direction and extent of displacement of each said driver so as to give a motor stroke changing response to the reaction effect in the hydraulic circuit of the associated pump and motor due to the change in tension in the material being fed through the rolls and the change in build-up of the material being wound on the coiling-up drum and the reduction in material being coiled-off the other drum.

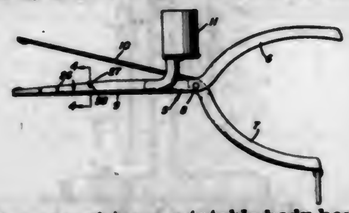
2,655,061
BRUSH SPRING RETRACTOR
Herbert A. Krause, Brookfield, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 12, 1949, Serial No. 70,506
4 Claims. (Cl. 81—3)



1. In a retracting tool for an angularly retractible brush finger, a tool head having means in one end engageable with one end of the brush finger, an elongated lever having a transverse pivot mounted on the opposite end of said head for lateral and angular movement with respect to an axis located in vertical offset relation to said finger engaging means of said head, said head having abutments thereon spaced laterally apart, said lever also having surfaces spaced laterally apart, each lever surface contacting one of said head abutments upon lateral and angular movement of said lever thereby causing angular movement of said head and angular retracting movement of the brush finger, said lever being also movable endwise of the lever pivot and the offset brush finger engaging means of said head when engaged with a brush finger to cause relative angular movement of said head and corresponding angular retracting movement of the finger.

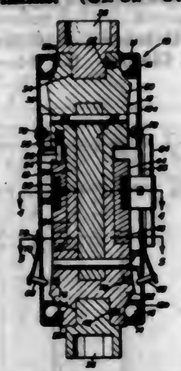
2,655,062
MAGAZINE FED SINKER APPLYING PLIERS
Henry C. Meatte, St. Louis, Mo., assignor of fifty per cent to Frank Leavitt, St. Louis, Mo.
Application September 24, 1951, Serial No. 248,003
3 Claims. (Cl. 81—15)

1. A tool for applying split soft metal sinkers to a fishing line comprising a pair of crossed handles pivoted to each other, a jaw on one handle having a recess adapted to hold a sinker therein, a second jaw on the other handle coacting with the first jaw, a magazine supported by the tool and adapted to feed sinkers singly to said recess for supporting the sinker therein in a position to receive a line in the split thereof and said second named jaw closing the split about the line upon a closing movement thereof, said



magazine comprising a rotatable body having individual compartments therein to hold sinkers of various sizes, each compartment having a discharge opening in its bottom, and a cut-off member movably supported under the magazine and having an opening adapted for aligning with the opening of a selected compartment to control feeding of the sinkers to the recess.

2,655,063
DRIVE MEANS FOR DOUBLE-ENDED SOCKET WRENCHES
Virgil P. Carrick and Walter B. Cates, High Point, N. C.
Application October 13, 1952, Serial No. 314,432
4 Claims. (Cl. 81—57)



1. A rotary tool actuator comprising a substantially cylindrical housing constituting a handle, said housing having open ends and being provided with a lateral opening, an elongated drive unit rotatably mounted in the housing and provided at the ends thereof with tool receiving sockets projecting through the open ends of the housing, a spool rotatably mounted intermediate the ends of said drive unit, a resilient actuating element wound on said spool and projecting outwardly from the housing through said opening, and an over-running clutch operatively connecting said spool to said drive unit for rotating the latter when said element is pulled outwardly from the housing.

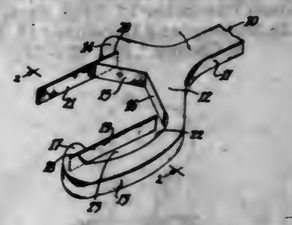
2,655,064
RATCHETING WRENCH
Otis W. Simon and George B. Carmack, Banners Ferry, Idaho
Application November 29, 1951, Serial No. 258,296
1 Claim. (Cl. 81—99)

A wrench comprising a handle having a fixed jaw integrally formed at one end thereof, the sides of said handle being recessed adjacent said fixed jaw, a movable jaw including a bill portion and a bifurcated connector portion, said bill portion extending forwardly of said fixed jaw, the bifurcated connector portion straddling the recessed sides of said handle and being pivoted thereto, a rearwardly, upwardly sloping crotch formed between the furcations of said bifurcated connector, the forward edge of said crotch being provided with an angulated flat portion consti-



tuting a stop for limiting the closing movement of said movable jaw, shield plates extending rearwardly of the movable jaw in spaced relation to one another, a spring disposed between said shield plates, the rear edge of said movable jaw and the upper surface of said handle being provided with corresponding recesses, the ends of said spring being guidingly disposed in said recesses, said shield plates having curved edges aligned with the edges of said movable jaw.

2,655,065
WRENCH HAVING LEAF SPRING JAW
Hugh Murphy, Lambertville, N. J.
Application February 2, 1951, Serial No. 209,080
7 Claims. (Cl. 81—119)

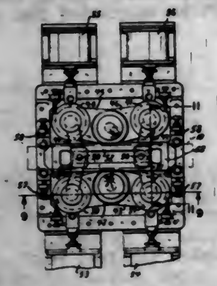


1. A wrench comprising a handle having an end shaped to present contiguous hexagon angled faces and an arm portion, spring strips spaced to engage opposite sides of a nut, means for mounting said strips on said end in parallel relation with each other and at a hexagon angle to an adjacent face of said end, the fixed ends of the springs being disposed diagonally, and a projection on said arm portion opposing the contiguous faces of said end.

2,655,066
FEEDING AND CLAMPING MEANS FOR CENTERLESS BAR TURNING MACHINES
Walter Siegerist, University City, Mo.
Application November 19, 1947, Serial No. 786,900
7 Claims. (Cl. 82—20)

1. A mechanism to feed and align a work piece with respect to the longitudinal axis of a cutter head comprising a pair of rollers disposed on opposite sides of the work piece; a pressure fluid operated motor for each roller for moving the rollers toward and away from the work piece; a second pair of rollers disposed on opposite sides of the work piece and displaced from the first mentioned pair along the longitudinal axis of the work piece; means for rotating each of said rollers to feed the work piece; a hydraulic cir-

cuit for connecting each of said motors; a valve in said circuit for causing the motors to move the rollers toward and away from the cutter head axis; means in which said rollers are rotatably supported; a guide adjustably mounted on said means, said guide having a longitudinal slot parallel with the longitudinal axis of the cutter head,



and means connecting each of said rollers and said guide so that the rollers of each pair will uniformly and simultaneously move with respect to the work piece, said connecting means including slide means movable on said guide, and arms connected between said slide means and said rollers.

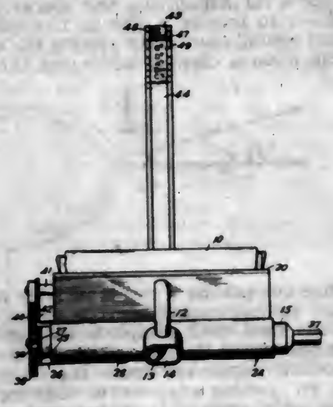
2,655,067
GUARD DEVICE FOR MACHINE TOOLS
André Bechler, Moutier, Switzerland
Application December 17, 1948, Serial No. 65,912
In Switzerland December 24, 1947
5 Claims. (Cl. 82—34)



1. An industrial safety shield comprising a shield element having two longitudinal parallel marginal side portions, rollers mounted on one of said side portions adapted to roll on a support rail, a bracket means fixed to the other of said side portions, a shaft member extending rotatably through said bracket means in parallel relation to said side portions, and rollers rotatably mounted on said shaft member and adapted to roll on a second support rail, the axes of rotation of said last mentioned rollers being at a right angle to said shaft member.

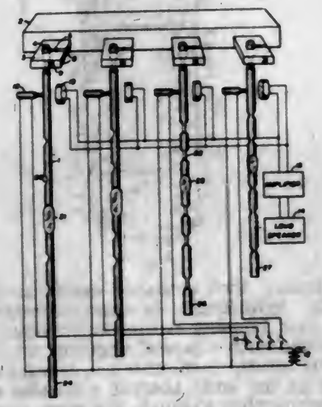
2,655,068
CHORD-PLAYING HARMONICA
Louis A. Ruben, Bayonne, N. J.
Application September 10, 1951, Serial No. 245,828
7 Claims. (Cl. 84—377)

1. The combination with a slidable harmonica and a fixed harmonica, of a single member adjacent the fixed harmonica and having a series of lines of spaced apart air passages therethrough, means for movably supporting the member to carry a selected line of passages into communication with the fixed harmonica to play a plurality of notes of the fixed harmonica and thereby to



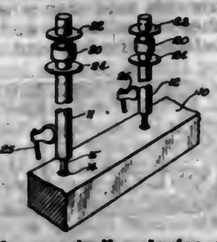
sound a chord, and a common mouthpiece for the harmonicas.

2,655,069
MEANS FOR AND METHOD OF TUNING VIBRATING BARS OR RODS
Joseph F. Marshall, Cambridge, Mass., assignor to Stromberg-Carlson Company, a corporation of New York
Application October 6, 1950, Serial No. 188,823
11 Claims. (Cl. 84—404)



1. A percussion musical instrument comprising; an elongated vibratable member for producing a tone, certain portions of the cross sectional dimensions of said member being shaped to increase the flexibility of said member in a given plane of vibrations, said portions being at spaced intervals along the length of said member, the length of the said intervals being determined by the occurrence of antinodes of partial tones to be flatted, sections of said member being swaged to increase the rigidity of said member in said given plane, said sections being spaced at distances along the length of said member, the length of the said distances being determined by the occurrence of antinodes of partials to be sharped.

2,655,070
DAMPING MEANS FOR TONE GENERATORS
Frank H. Slaymaker and Willard F. Meeker, Rochester, N. Y., assignors to Stromberg-Carlson Company, a corporation of New York
Application December 4, 1950, Serial No. 199,956
4 Claims. (Cl. 84—404)



1. In a carillon or similar device, the combination of, a tone bar, means for striking said bar to produce tone vibrations therein, a damping ring of elastic material loosely encircling said bar, and means comprising two movable restraining members for limiting the movement of said ring along said bar, said ring having a small mass as compared with the mass of said bar to produce a gradual decay of said tone vibrations without excessively damping the higher partials of said tone.

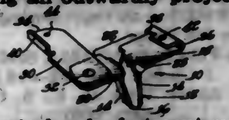
2,655,071
DRUM
Eugene Levay, New York, N. Y.
Application November 7, 1951, Serial No. 255,190
3 Claims. (Cl. 84—422)



1. A hollow drum body, a drumhead secured thereto, the drumhead having at least a substantial portion of its outer surface electrically conductive, electrically energizable sound-producing means disposed inside the drum body, two terminals adapted to be connected to a source of electrical energy, a drumstick, and means to electrically connect the sound-producing means and terminals in series between the drumstick and conductive portion of the drumhead, whereby when the drumstick is touched to the conductive portion the sound-producing means will be energized so that a sound will be emanated from the drum body.

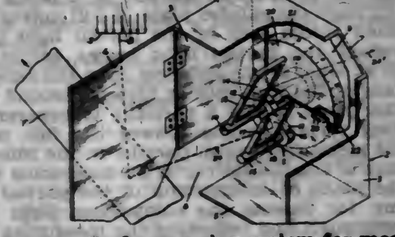
2,655,072
FASTENER WITH SPREADING MEANS
Ougljesa Jules Peupitch, Itasca, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application May 23, 1951, Serial No. 227,300
8 Claims. (Cl. 85—5)

1. A fastener comprising a shank having a plurality of longitudinally extending shank sections connected together at one end and shiftable toward and away from each other and normally disposed to present a reduced peripheral section, a head comprising head members each secured to a corresponding shank section at the other end thereof and projecting outwardly therefrom and movable therewith transversely of the shank axis between a position presenting a reduced head area and a position presenting an enlarged head area, at least one of said shank sections having an outwardly projecting portion



spaced from said head, abutment means carried by and movable with one head member, and a shank spreading member pivotally carried by and movable with the other head member and shiftable relative thereto between an inoperative position out of engagement with said abutment means and an operative position in engagement with said abutment means, the effective length of said shank spreading member being such as to effect lateral separation of said head members with resultant spreading of said shank sections when in engagement with said abutment means.

2,655,073
OPTICAL THICKNESS GAUGE
Allen Strickler, Los Angeles, Calif., and John H. Temple, Wausau, Wis., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware
Application September 22, 1950, Serial No. 186,422
7 Claims. (Cl. 88—14)



1. In an optical measuring system for measuring the thickness of a transparent or semitransparent sheet material without any contact with a surface of said sheet material, the combination of means for directing a light beam against said sheet material to produce reflected light beams from the near and far surfaces of said sheet material, optical flat means positioned to intercept and reflect the reflected light beams, said optical flat means being so constructed and arranged that substantially all the light reflected thereby is reflected from parallel surfaces thereof, a movable support carrying said optical flat means, a fixed support for said movable support, means for varying the angular position of said movable support relative to said light beams reflected from said sheet material whereby the angular position of said optical flat means may be adjusted so that the light beams reflected therefrom are in phase to form interference fringes, a flat mirror mounted on said movable support in fixed relationship to said optical flat means for receiving and reflecting the light reflected from said optical flat means, means at a fixed, predetermined location with respect to said fixed support for defining the angle for
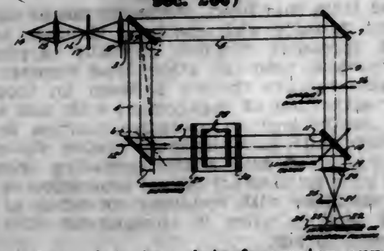
viewing the light reflected from said flat mirror and means operatively connected to said movable support for indicating the thickness of said sheet material.

2,655,074

INTERFERENCE — SCHLIEREN APPARATUS WITH SIMPLIFIED COMPENSATION PRINCIPLE

Ernst R. G. Eckert, Lakewood, and Theodor W. Zobel, Dayton, Ohio, assignors to the United States of America as represented by the Secretary of the Air Force

Application February 15, 1951, Serial No. 211,172
1 Claim. (Cl. 88—14)
(Granted under Title 35, U. S. Code (1952), sec. 266)



In a four plate type interferometer apparatus having a light source, light collimating means for collimating light emanating from the light source to produce a collimated light beam; a first beam splitter plate having a partially transparent reflecting surface inclined across the collimated light beam with the reflecting surface thereof facing toward the light source for splitting the collimated light beam to form reflected diverging collimated measuring partial light beam and a collimated comparison partial light beam passing through the splitter plate; a full mirror plate inclined across each of the partial light beams to reflect the partial light beams across each other at equal linear distances from the reflecting surface of the first splitter plate; a second beam splitter plate having a partially transparent reflecting surface facing toward the full mirror in the measuring beam, parallel to the reflecting surface of the full mirror in the measuring beam, in the plane of intersection of the partial light beams, for passing the comparison light beam therethrough and reflecting the measuring light beam therefrom in combined parallel relation to the comparison beam, to form an interference light beam; and spaced parallel test section flat windows located in the measuring beam having optically flat surfaces and substantially equal in optical thickness and quality to the optical thickness and quality of the two light beam splitter plates traversed by the comparison light beam, whereby the beam splitter plates in the comparison beam compensate for changes in the optical length of the measuring beam due to the passage of the measuring beam through the windows of the test section and an image viewing screen in the path of the interference beam.

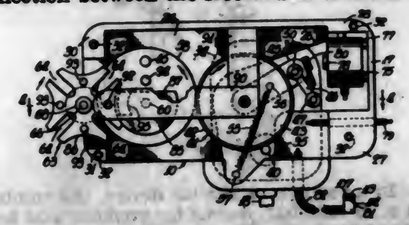
2,655,075

PROJECTOR SLIDE FILM CHANGER

Robert A. Lightburn, Fayson Lakes, N. J., and Mervyn W. Palmer, New York, N. Y., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application January 2, 1951, Serial No. 203,904
11 Claims. (Cl. 88—28)

1. In a slide changer, a Geneva movement for operating a film feed shaft step by step and comprising a star wheel, a drive wheel having a drive tooth for said star wheel, latch means for locking said star wheel automatically against rotation when said tooth moves out of drive engagement with said star wheel and including a relatively thin wide elongated spring bar fixed at one end to a fixed part of said slide changer and urged towards said star wheel at its other end by its inherent resiliency, and a pin and hole connection between the free end of said bar and



said star wheel to lock said star wheel, a part of said bar being disposed adjacent said drive wheel and having an engagement surface thereon, and a cam pin on said drive wheel disposed so as to engage said engagement surface for camming the free end of said bar away from said star wheel substantially as said tooth moves into drive engagement with said star wheel to release said star wheel for rotation under the control of said tooth.

2,655,076

OPTICAL SIGHTING DEVICE

Harold Armstrong, El Paso, Tex.

Application March 20, 1950, Serial No. 150,685
4 Claims. (Cl. 88—33)



3. An optical sighting device comprising a pair of longitudinally adjustable outer and inner telescoping tubes having an optical system carried thereby, a handle secured to and extending radially from the outer of said tubes, a guide track secured at one end to said outer tube adjacent the outer end thereof and at its other end to said handle, a slide member slidably engaging said track and extending alongside of said handle parallel to said tubes, means operatively connected to said slide member and said inner tube to telescope the inner tube within the outer tube, and finger engaging means on said slide member adjacent said handle for moving the slide member along the track to longitudinally adjust the tubes to vary the focus of the optical system.

2,655,077

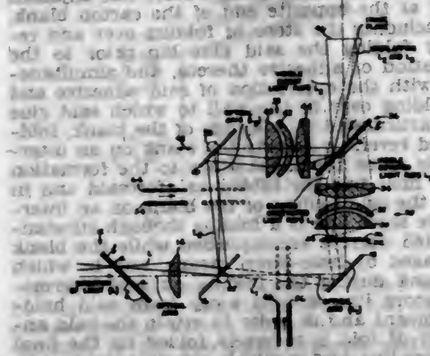
MICROSCOPE WITH MEANS FOR MODIFYING CONTRAST IN OPTICAL IMAGES

Alva H. Bennett, Kenmore, N. Y., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application February 8, 1949, Serial No. 75,154
12 Claims. (Cl. 88—39)

1. A phase contrast optical system for providing alteration of contrast effects in the image

of an object under observation, said optical system comprising means providing a light source of predetermined dimensions and contour positioned adjacent an entrance pupil of said system, condenser means optically aligned with and positioned adjacent said light source, semi-reflecting means positioned so as to intercept and divide the light rays transmitted by said condenser means and to direct same along separate first and second optical paths respectively, objective means positioned in each optical path and each objective means cooperating with said condenser means so as to form an image of light rays received from said light source, reflecting means positioned in each of said optical paths for directing said image forming light rays toward a common predetermined intersection and forming light source images which substantially coincide substantially at said intersection, an object plane in one of said optical paths adjacent the objective means thereof, said last mentioned objective means having a conjugate image plane,



relatively thin plate-like selector means positioned substantially at said intersection and comprising a plurality of differently formed portions, one of said portions being of such predetermined optical properties, contour and transverse dimensions relative to said light source images and so positioned relative thereto as to prevent the transmission of said image forming light rays of the optical path containing said object plane while light rays of said last mentioned path which are deviated by an object when positioned at said object plane are transmitted through another of said portions, said one portion being of such properties as to reflect the image forming light rays of the other optical path as undeviated light rays toward said conjugate image plane, and means positioned in one of said optical paths for modifying one of the phase and amplitude differences existing between the deviated and undeviated light rays directed toward said conjugate image plane, to thereby alter contrast effects in an image of said object.

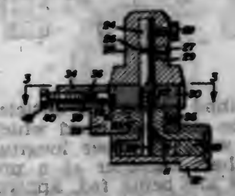
2,655,078

MECHANICAL STAGE FOR MICROSCOPES

William Arnold Gunther, Cumberland, Md.

Application January 9, 1952, Serial No. 265,802
6 Claims. (Cl. 88—49)

1. A mechanical stage for microscopes with a slidable, slide holding frame and with traversing means, including a pinion and rack for shifting the said frame along a straight line, comprising a hand operated knob for operating said traversing means, a dividing, apportioning and indicating feeler device for dividing the slide area into continuous inspection fields, said device being coupled with the hand operated knob and with said traversing means, said device including a wheel with a notched periphery connected with the knob, the notches of the wheel periphery being angularly spaced to such an extent that the rotational movement of the wheel through an angle between notches traverses the slide exactly through a full field of vision completely inspectable in the microscope, a spring pressed floating plunger with a locking head applied against the wheel periphery, said plunger head



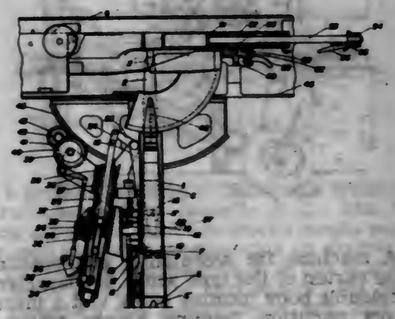
alternatively dropping into the notches and being pressed back towards the wheel periphery during rotation of the knob and wheel, thus indicating by the sudden radial snapping movement of the floating piston by the increase and by its rotational resistance to the operator the exact extent of the rotational movement of the knob bringing successive inspection fields in such alignment and coordination before the microscope that the fields are exactly adjoining and their border lines neither overlap nor leave non-inspected areas between them.

2,655,079

LOADING MECHANISM FOR GUNS

Henry Wilhelm Aldrin and Sven Gunnar Gerdin, Bofors, Sweden, assignors to Aktiebolaget Bofors, Bofors, Sweden, a joint-stock company of Sweden

Application October 18, 1949, Serial No. 121,914
In Sweden March 23, 1949
14 Claims. (Cl. 89—45)



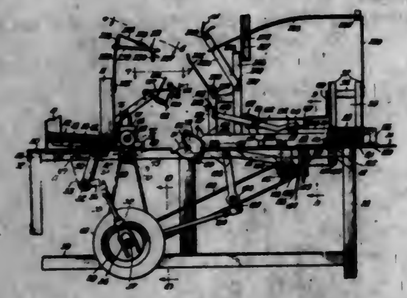
1. In loading mechanism for a gun comprising a gun barrel, trunnions supporting the barrel for elevational movement about a horizontal axis and a vertical hoist for delivering a projectile to a position adjacent the barrel, the combination with said gun of a loading tray for receiving a projectile from the hoist and supporting it in said position, means supporting the tray for movement in an arcuate path in the plane of said elevational movement and about an axis coincident with said horizontal axis and means for moving the tray in said path to thereby transfer a projectile in the tray from said position to one substantially in axial alignment with the barrel.

2,655,680
METHOD OF AND MACHINE FOR FORMING LININGS
Willis P. Drew, La Grange, Ill., assignor to Arkell Safety Bag Company, New York, N. Y., a corporation of New York
Application September 10, 1947, Serial No. 773,264
4 Claims. (Cl. 93—8)



1. The method of making articles of manufacture of the class described which comprises feeding two webs of paper longitudinally and positioning them together at a predetermined point as they are being fed, applying adhesive to the webs so as to cause their longitudinal margins to be secured together, directing saturated steam under pressure between the webs at the point where they are brought together forming gatherings in the composite web to provide for stretchability in at least one direction, and applying heat to the web to cause ballooning thereof due to the expansion of the air and moisture between the sheets of the web.

2,655,681
CARTON SETUP MACHINE
Martin Burger, Morris, Ill., assignor to General Package Corporation, a corporation of Delaware
Application July 20, 1948, Serial No. 39,688
39 Claims. (Cl. 93—37)



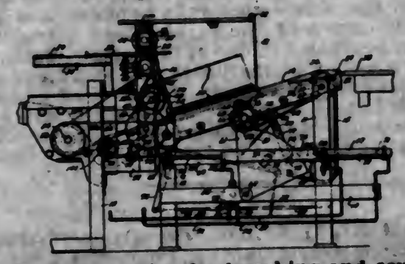
1. A machine for assembling and erecting a cellular carton of the type which is characterized by a foldable body forming blank and a plurality of cross partition forming blanks which are adapted to be positioned in interlocking relation in aligned slots in the body forming blank, said machine comprising means for receiving the body forming blank in partially folded condition, means for holding the blank in said partially folded condition, means for delivering to said body blank receiving means a plurality of cross partition forming blanks in spaced parallel edgewise relation, means for inserting said cross partition forming blanks in transversely aligned pairs of slots in said body blank, and means for further moving said cross partition forming blanks relative to said body forming blank to bring the same into interlocking relation with side wall portions of said body forming blank.

2,655,682
SCORE BREAKER
Elmer Amyx, Cincinnati, and Joseph Kramer, Reading, Ohio, assignors, by mesne assignments, to The International Paper Box Machine Company, a corporation of New Hampshire
Application July 26, 1946, Serial No. 686,230
9 Claims. (Cl. 93—52)



1. A process of breaking the scores of tubular cartons which comprises passing the cartons through a folding and gluing machine in which adhesive is applied to the carton glue lap and in which the carton is subsequently folded along a score line adjacent the wall to which said glue lap is articulated and along a score line adjacent a wall at the opposite end of the carton blank, and including the steps of folding over and reversely folding the said glue lap prior to the application of adhesive thereto, and simultaneously with the application of said adhesive and the folding over of the wall to which said glue lap is articulated at one edge of the blank, folding and reversely folding the blank on an intermediate score line preparatory to the formation of the final fold for tubing as aforesaid and in which the said folding of the blank on an intermediate score line is a folding through substantially 165 degrees accomplished while the blank is engaged by hold-down means, and in which the blank during the folding on said intermediate score line is held away from said hold-down means and in order to attain the said angularity of fold is reversely folded on the final fold score line, and in which, simultaneously with the folding and reverse folding of the said glue lap, ears on the closure flaps of the wall at the opposite end of the blank are folded over and then released.

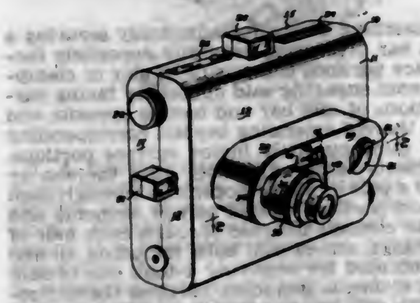
2,655,683
BUNCHING AND COUNTING MECHANISM
Harry Peters, Middletown, and William J. Tilton, Franklin, Ohio, assignors to The Raymond Bag Company, Middletown, Ohio, a corporation of Ohio
Application November 2, 1949, Serial No. 125,148
16 Claims. (Cl. 93—93)



1. In an apparatus for bunching and counting articles, a supporting structure, an endless conveyor supported on said structure and having the upper stretch thereof arranged to receive and support articles, means for depositing articles on said conveyor in superposed relation one to the other, means for intermittently actuating said conveyor including a gear rotatably mounted on said supporting structure, a reciprocatory

toothed member meshing with said gear to rotate the same in either of two directions, means including a one-way clutch for drivingly connecting said gear with said conveyor when said gear is rotated in one direction and for disconnecting said gear from said conveyor when said gear is rotated in the other direction, power operated means for reciprocating said toothed member, means for counting the articles deposited on said conveyor, and means controlled by said counting means for initiating the operation of said toothed member by said power operated means when a predetermined number of articles have been deposited on said conveyor.

2,655,684
SWING LENS CAMERA
Frederick L. O. Rochrig, Yucaipa, Calif.
Application January 10, 1951, Serial No. 205,238
5 Claims. (Cl. 95—11)



1. In a dual chamber camera, a film housing having a division wall forming two film exposing compartments, a front wall of the housing being common to the two compartments and having two lens tube apertures each opening into a compartment, a lens tube having an end adapted for selective insertion into said apertures, a bracket pivoted on said front wall between said apertures to turn on an axis lying in the plane of and paralleling said division wall, said bracket including two spaced arms extending perpendicularly to said axis, said lens tube being positioned between said arms, a pivot coupling between the arms and the lens tube by which the tube turns between the arms on an axis paralleling the first axis, said arms being of a length to permit the insertion of said end of the lens tube selectively into said wall apertures when the bracket is swung around the first axis, and means for locking the end of the lens tube in either aperture.

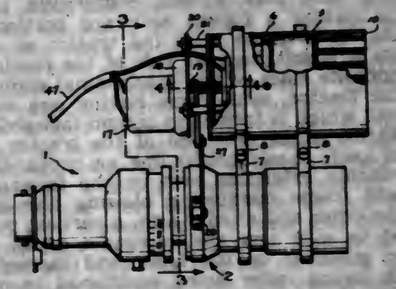
2,655,685
PHOTOGRAPHIC SHUTTER WITH ADJUSTABLE FLASH SYNCHRONIZING MECHANISM
Kurt Gebele, Munich, Germany, assignor to Hans Deckel, Munich-Solln, Germany, and Friedrich Wilhelm Deckel, Post Tutzing, Germany
Application June 23, 1951, Serial No. 233,194
In Germany April 10, 1951
3 Claims. (Cl. 95—11.5)

1. In a photographic objective closure, in combination, a photographic shutter, time setting means on said shutter permitting the setting thereof at different exposure times, a flashlight-contact arrangement and a flashlight-synchroniser mechanism built in said shutter, said contact arrangement being closed by a part of said flashlight-synchroniser mechanism in set pre-ignition time with respect to the opening of said shutter for taking into account respective flashlight delays of different flashlamps, a cam member adjustably mounted in said shutter and cooperating with said contact arrangement for setting the latter in various pre-ignition times, said cam member having a plurality of control ranges thereon deviating from each other for the purpose of taking into account different flashlight delays of different flashlamps, and dis-



engageable coupling means arranged between said time setting means and said cam member for positioning a selected one of said control ranges on said cam member in selective relationship to said contact arrangement and to said time setting means and for moving said member in proportion to the movement of said time setting means, whereby the setting of said contact arrangement in various pre-ignition times occurs at each flashlamp in the selected relationship automatically with the time setting of said shutter.

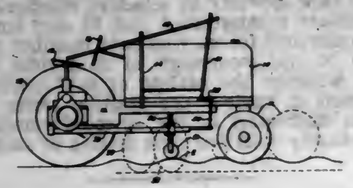
2,655,686
AUTOMATIC CAMERA LIGHT APERTURE CONTROL
Neville E. Walker, Portland, Oreg.
Application April 13, 1951, Serial No. 221,960
2 Claims. (Cl. 95—64)



1. A portable automatic diaphragm control apparatus adaptable to cameras or the like, comprising a support, light responsive means mounted on said support for generating an electric current proportional in magnitude to the brightness of a scene, a clamp for said support for releasably mounting said support on a lens tube with said light responsive means directed at the field of the lens, a switch member on said support, means on said support actuated by the generated electric current for moving said switch member selectively in opposite directions, a pair of spaced contacts respectively on opposite sides of said switch member for selective engagement thereby, a reversible direct current motor on said support, a separate portable carrier, a source of direct electric current on said carrier, a cable connecting said support and carrier and including a power circuit through said source and said motor, a pair of switch devices on said carrier for respectively closing said power circuit to regulate the direction of rotation of said motor, a control circuit through said cable and including

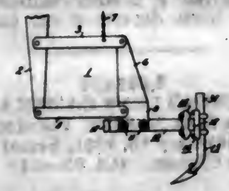
a connection between said switch member and said source and a connection between each of said contacts and said source, a relay on said carrier respectively controlling one of said switch devices to close said power circuit to drive said motor in accordance with the contact engaged by said switch member, a shaft on said support and driven by said motor, means on said shaft for connection with a diaphragm control, and a second means on said shaft and connected directly with said pair of contacts to establish equilibrium between said contacts and switch member after actuation of said switch member.

2,655,087
DITCHING SIDE PLOW FOR USE ON TRACTORS
Levi C. Hester, Jacksonville, Fla., assignor to Hester Plow Co. Inc., Jacksonville, Fla., a corporation of Florida
Application July 28, 1948, Serial No. 41,132
2 Claims. (Cl. 97—47.38)



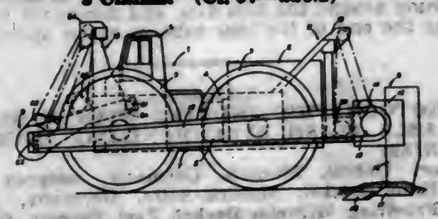
1. A side plow for use in cutting furrows transverse to previously cut parallel and substantially equally spaced furrows, said plow being adapted to be used with a tricycle type tractor having a front wheel and rear wheels and an axle connecting said rear wheels, comprising a rigid frame having a forked rearward portion with means for pivoting it to the tractor at spaced points adjacent the rear axle of the tractor and on opposite sides of the longitudinal center line of the tractor, said frame having one member thereof which is formed to extend forwardly and outwardly along one side of the tractor at an acute angle to said center line, an outwardly and rearwardly extending arm on the forward end of said frame member, a plowing disc carried on the outer end of said arm, a vertical post secured to said arm and having a depth gauge roller mounted on the lower end thereof, said depth gauge roller being positioned to engage the uncut ground surface inwardly of said disc to limit the downward movement of said frame and being positioned with respect to the front wheel of the tractor to ride on the crest of a furrow transverse to the direction of travel of the tractor when the front wheel of said tractor is riding in a depression of a furrow transverse to the direction of travel of the tractor, said depth gauge roller being adjustable vertically with respect to said arm and longitudinally with respect to said front wheel, said disc and said roller being positioned on said one side of the tractor between the front wheel and the rear drive wheels of the tractor, said disc being positioned in forward alignment of one of said rear drive wheels, and means for suspending the forward end of said frame from the tractor which provides for limited movement of said frame around its pivoted connection to the tractor, said means being adjustable to provide for supporting the forward end of the said frame with said roller when the front wheel of the tractor enters a depression in the ground being plowed and to limit the downward movement of the forward end of said frame including said roller when the front wheel of the tractor passes over a crest of the ground being plowed.

2,655,088
TOOL MOUNTING
Walter G. Charley, Le Crescent, Minn., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application July 6, 1949, Serial No. 103,296
6 Claims. (Cl. 97—193.1)



1. A clamping device for adjustably securing a tool to a bar presenting generally oppositely facing surface portions comprising, a pair of clamping elements engaging said oppositely facing surface portions of said bar and having opposite end portions thereof extending beyond corresponding edges of said oppositely facing surface portions, said elements being adjustably fixed thereon by means of a pair of aligned openings through each of said end portions of said pair of elements and a bolt like element inserted through each pair of said openings, one of said bolts including an end portion adapted for receiving a tool, one of said clamping elements including portions thereof coacting with said bar to prevent a relative turning thereof upon loosening either one of said bolts, and one of said openings being in the form of an arcuate opening concentric with respect to the opening in the opposite end portion of the same clamping element whereby upon loosening of said bolt passing through said arcuate opening the other element of said clamping device may rotate relative to said bar and said one element about an axis afforded by the other of said bolts.

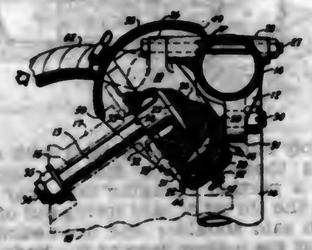
2,655,089
EARTH WORKING TOOL
Robert G. Le Tourneau, Longview, Tex., assignor to R. G. Le Tourneau, Inc., Longview, Tex., and Peoria, Ill., a corporation of California
Application May 27, 1949, Serial No. 95,632
3 Claims. (Cl. 97—226.1)



1. An earth working tool comprising: a tractor; an arm pivotally mounted on said tractor and extending forwardly therefrom for movement in a vertical plane; a crosspiece carried by said arm and extending transversely of said tractor and spaced forwardly from the front end thereof; a yoke having arms extending along the sides of said tractor; a pivotal connection between each of said yoke arms and said crosspiece; a blade supported by said yoke and extending transversely of said tractor, said blade being disposed rearwardly of said tractor; power

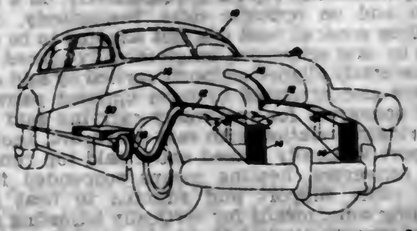
means operable to rotate said yoke arms about said pivotal connection to raise and lower said blade and power means operable to rotate said arm about its pivotal mount on the tractor and thereby raise or lower the crosspiece to vary the pitch of said blade.

2,655,090
THERMAL SHROUD FOR ENGINE MOUNTS
Arthur J. Savard, San Diego, Calif., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif., a corporation of Delaware
Application August 25, 1949, Serial No. 112,238
5 Claims. (Cl. 98—1)



1. A thermal insulating assembly for engine shock mounts having a first attaching means to connect said shock mount to an engine and a second attaching means to connect said shock mount to a supporting structure, comprising an impervious shroud of insulating material shaped to substantially surround said shock mount and to lie in partially spaced relationship thereto and having edges defining a pair of spaced openings, each opening accommodating one of said attaching means, inlet means associated with said shroud for the admission of cooling air into the space between said shroud and said shock mount, and adjustable means associated with the edges defining one of said openings adapted to tighten said shroud around said shock mount to secure it thereto and to support said shroud therefrom, the other of said openings affording an outlet means for said shroud for the exhaust of cooling air therefrom.

2,655,091
FILTER
Rex W. Geiger, York, Nebr.
Application August 7, 1950, Serial No. 178,635
4 Claims. (Cl. 98—3)



1. In an air ventilating system for automobiles, an air duct having an adit and exit communicating with the automobile interior, said duct having an elongated opening extending transversely thereof, an air filter disposed in said duct and adapted to be removed and inserted through said opening, inwardly extending flanges on said duct at opposite sides of said opening extending into the interior of said duct and constituting guide and retaining flanges for said filter, laterally outwardly extending tabs on said duct at the ends of said opening, a closure for said opening secured to said tabs.

2,655,092
VEHICLE HEATER AND SYSTEM
Richard C. Spooner, Cleveland, Ohio, assignor to A. R. Lintern Inc., a corporation of Michigan
Application February 15, 1951, Serial No. 211,037
5 Claims. (Cl. 98—2)

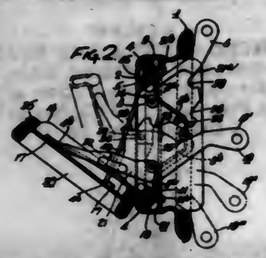


1. A bus space heater positionable between the driver area and the body side wall comprising a core, a core enclosing shell including a back, a front end, a rear end, a front face obtusely angling from said front end, a relatively shorter rear face obtusely angling from said rear end; said faces obtusely joining with each other, a bottom, and a recirculated air intake vented top communicating with the top of said core; said core being disposed adjacent said back spaced from said front end, a blower disposed between said front end and said core exhausting through said top, a duct rising from said blower adapted to extend to a point adjacent the bottom of a bus windshield and side windows, a vented defroster duct leading from said duct adapted to parallel a bus windshield bottom and adapted to direct air against a windshield to defrost same, a rotatable head on said duct, a door in said head; said door and head constituting a universal joint adapted to permit the driver to direct air on any particular area of the windshield or side window to spot-blast same, a front fan angularly disposed to said front face and to said core, a rear fan angularly disposed to said rear face and to said core, a divider positioned between said fans extending from the junction of said faces to said core separating said fans and dividing said core area between said fans, louvers in said rear face and said rear end for deflecting air to the right and left sides, rear, and center area of a bus, doors in said front face adapted to optionally direct air to the step-well and front door area, driver area, front passenger area of the bus, and to said defroster blower singly or in combination, and a main fresh air intake in said back communicating with the full area of said core.

2,655,093
DEFLECTOR FOR VENTILATING GRILLS
Georg Karl Johan Broberg, Selsa, Sweden, assignor to A B Svenska Flaktfabriken, Stockholm, Sweden
Application May 16, 1951, Serial No. 226,584
In Sweden May 11, 1950
5 Claims. (Cl. 98—41)

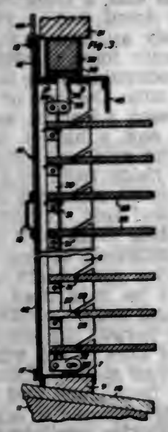
1. In apparatus for adjusting ventilating grill deflectors comprising a grill having an enlarged opening therein and a deflector mounted over said grill opening for pivotal movement about an edge portion thereof relative to said grill, a frame, means resiliently mounting said frame crosswise of said grill opening, spring members

supported by said mounting means and engaging said deflector and said frame operable to resiliently urge the same against said grill, and an adjusting lever pivotally mounted on said



frame and bearing against said deflector, said adjusting lever being operable upon pivotal movement thereof to pivot said deflector about said edge portion relative to the grill.

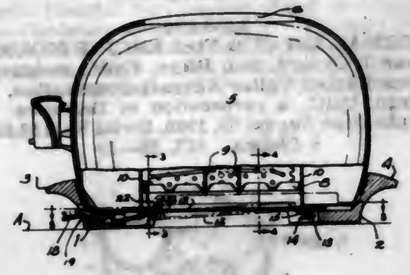
2,655,094
STORM SHUTTER
Charles C. Guercio, Smithtown Branch, N. Y.
Application June 1, 1949, Serial No. 96,552
5 Claims. (Cl. 98—99.3)



1. In combination with a window frame having a vertically sliding window sash therein, a window shutter including a shutter frame fitted in the window frame below the sash and having a top frame member, a plurality of louvers pivoted in the shutter frame for swinging about horizontal axes into open position and counterbalanced for swinging into closed position, and means for swinging said louvers into open position operative by downward sliding of said sash including a horizontal member interposed between said top frame member and the sash and supporting the sash in partly open position and movable downwardly against said top frame member by downward sliding of said sash against the same, and operating connections between said horizontal member and said louvers.

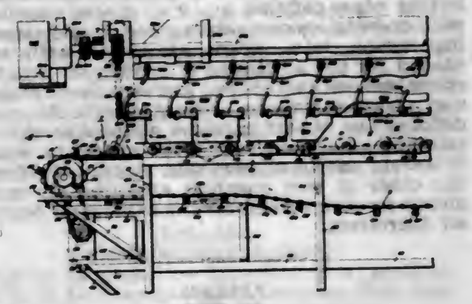
2,655,095
TOASTER WITH QUICK RELEASE CRUMB TRAY
Paul J. McCullough, St. Louis, Mo., assignor to The Toastwell Company, Inc., St. Louis, Mo., a corporation of Missouri
Application July 27, 1950, Serial No. 176,150
3 Claims. (Cl. 99—400)

1. In a toaster, a body forming a toasting chamber, an upwardly facing shoulder on said body near one end of said chamber, a horizontally yielding spring mounted on said body adjacent the other end of said chamber, a crumb tray beneath said chamber with one edge normally seated on said shoulder and with its other edge engaging and distorting said spring, and a mem-



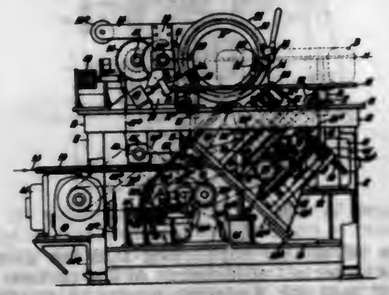
ber movably mounted on the body with a portion projecting therefrom for manual engagement and with a portion engaging said tray to move it against the thrust of said spring out of engagement with said shoulder and downwardly below the level of the bottom face of the body.

2,655,096
MEAT BROILING APPARATUS
Benjamin Ebin, New York, N. Y.
Application September 7, 1949, Serial No. 114,313
3 Claims. (Cl. 99—421)



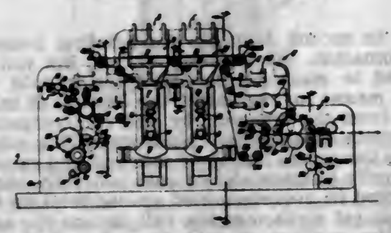
1. Meat-broiling apparatus, comprising laterally spaced endless conveyors having substantially horizontal top runs, respectively, on a level with and on opposite sides, respectively, of a broiling zone, at least one spit adapted to be carried by said conveyors, longitudinally spaced and transversely aligned supports carried by said conveyors and arranged to form opposed pairs on said conveyors for removably carrying said spit in bridging relation with said conveyors, another support vertically spaced above said top runs of the conveyors, heating means suspended from said other support and adapted to heat said broiling zone, means for vertically adjusting said other support relative to said horizontal top runs of said conveyors whereby to vertically adjust said heating means so as to regulate the temperature in said broiling zone, and driving means for said conveyors, a rack extending on the outside of said conveyors parallel to the adjacent top run thereof and being adapted to mesh with gears on the adjacent ends of said spit on said support pairs, and guide structure for preventing axial movement of the spit gears from said rack.

2,655,097
APPARATUS FOR DRAWING A WIRE TIE THROUGH AND AROUND ANNULAR ARTICLES AND TWISTING THE ENDS TOGETHER
Silas C. Fenn, Waukegan, Ill., and John Kramer, deceased, late of Waukegan, Ill., by Franklyn Alfred Kramer, administrator, Waukegan, Ill., assignors to United States Steel Corporation, a corporation of New Jersey
Application August 10, 1950, Serial No. 178,702
27 Claims. (Cl. 100—12)



1. Apparatus for inserting a wire tie through an article in the form of a closed ring, comprising a vertically disposed guide ring divided along a horizontal plane through its center, a fixed support for the lower half of said ring, the upper half being movable from and toward the lower half, a wrapping ring rotatably mounted on said guide ring, said wrapping ring being divided along a diameter, an article-supporting table adjacent said guide ring, and means mounting said table for vertical movement from an upper loading position adjacent the ends of the lower half of the guide ring to a lower tying position approximately tangent to the wrapping ring.

2,655,098
PRINTING, PUNCHING, AND CUTTING MACHINE
Orville V. Dutro and Lyle V. Dutro, La Canada, and James F. Nameth, Los Angeles, Calif., assignors to The McBee Company, Athens, Ohio, a corporation
Application August 22, 1950, Serial No. 180,832
12 Claims. (Cl. 101—19)



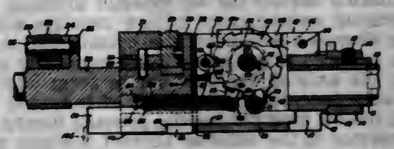
1. A machine of the character described, comprising a printing station having a first rotary printing means and a second rotary printing means arranged to successively print on a moving web, a punching station having punching means for punching through the web, rotary operating means adapted to receive the web from the punching station and perform an operation on the web while the web is moving, means for continuously feeding a web through the printing station to and through the punching station in an intermittent advancing manner and then continuing through said rotary operating means, and means for inactivating the first rotary printing means and then, after a predetermined lapse of time, inactivating the second rotary printing means, and then after a further predetermined lapse of time, inactivating the punching means.

2,655,099
STAMP HOLDER FOR EMBOSSING DIES
Harry C. Rickenbach, Gibsonia, Pa.
Application July 7, 1950, Serial No. 172,595
2 Claims. (Cl. 101—28)



1. A stamp holder having a body portion with a plurality of longitudinally spaced rectangular openings and having a cover plate with openings in register with the openings of the holder, said holder and plate being adapted to receive stamps with their axes in vertical alignment, said holder having leaf springs extending a substantial distance into the rectangular openings for grippingly engaging the body of the stamps, said springs having eyelets at one end and a rod extending through said eyelets whereby they can be simultaneously inserted in the stamp holder between the body of the holder and the cover plate.

2,655,100
ROTARY NUMBERING MACHINE
Ernest Persson, New York, N. Y., assignor to The International Postal Supply Company, Brooklyn, N. Y., a corporation of New York
Application April 7, 1950, Serial No. 154,673
11 Claims. (Cl. 101—76)



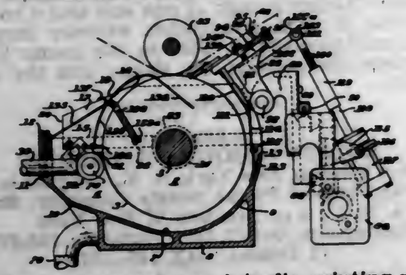
1. In a numbering machine, a substantially cylindrical body supported for rotation on its axis including end portions provided with co-aligned slots and a central portion having an open sided recess formed therein, a set of number wheels provided with individual ratchets disposed in the recess, a member extending across the recess for supporting the number wheels, a holding pawl for each ratchet, a member extending across the recess for supporting the pawls, a pair of plates mounted on the first mentioned member on opposite sides of the number wheels, an operating pawl assembly for the number wheels supported between the plates, a spring loaded slide formed with a notch disposed in the slots for oscillating the plates and thereby operating the number wheels, a roller mounted between the plates and resting in the notch for detachably coupling the slide to the plates, a plurality of long screws connecting the end portions for holding the structure together and means for actuating the slide during each rotation of the cylindrical body.

2,655,101
PLANOGRAPHIC PLATE AND METHOD OF MAKING SAME
Douglas A. Newman, Port Washington, N. Y., assignor to Columbia Ribbon and Carbon Manufacturing Company, Inc., Glen Cove, N. Y., a corporation of New York
No Drawing. Application December 22, 1945, Serial No. 637,087
24 Claims. (Cl. 101—149.2)

1. In a planographic printing plate having a foundation, a dry, oleophilic image-receptive, hydrophilic background-forming coating on said foundation, comprising a water-soluble carboxymethyl cellulose compound; and an ink-receptive water-repellent image on said coating.

26. The method of making a planographic printing plate presenting water receptive areas which includes the steps of coating a surface of the plate with a film of a water soluble carboxymethyl cellulose product, applying an ink-receptive water-repellent image to said film, and thereafter rendering said film water insoluble.

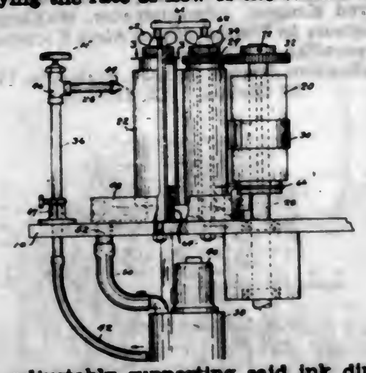
2,655,102
INTAGLIO PRINTING PRESS
Frank A. Ross, Ross Township, Allegheny County, Pa., assignor to Miller Printing Machinery Co., Pittsburgh, Pa., a corporation of Pennsylvania
Application February 15, 1951, Serial No. 211,074
16 Claims. (Cl. 101—157)



6. Inking means for an intaglio printing press comprising an elongated hollow member adapted to be disposed adjacent the cylindrical surface of an intaglio printing cylinder generally parallel to the axis of the cylinder to form with said surface a receptacle for a pool of ink, said elongated hollow member having passage means from the interior to the exterior thereof through which ink fed into the interior thereof may pass to the exterior thereof and into said receptacle, means for varying the effective cross-sectional area of said passage means, and a second elongated hollow member disposed generally within the first mentioned elongated hollow member into which ink is adapted to be fed, the second elongated hollow member having passage means from the interior to the exterior thereof through which ink fed into the interior thereof may pass to the exterior thereof into the space within the first mentioned elongated hollow member but outside the second elongated hollow member.

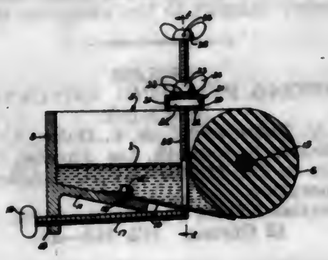
2,655,103
PRINTING APPARATUS
Malcolm Hirschey, Woodside, N. Y., assignor, by mesne assignments, to Adolph Gottscho, Inc., Hillside, N. J., a corporation of New York
Application August 18, 1949, Serial No. 110,920
2 Claims. (Cl. 101—350)

1. In printing apparatus, the combination of a substantially vertical printing roll, a substantially vertical ink supplying roll, a substantially vertical ink transferring roll between said printing and ink supplying rolls and in continuous surface contact with both of the latter, means for directing a stream of ink on said ink supplying roll at an elevated point on the periphery thereof, means for varying the rate of flow of the stream of ink,



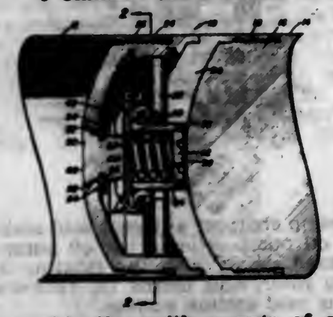
means adjustably supporting said ink directing means to permit adjustment of the vertical position of said ink directing means in relation to said ink supplying roll and for locking said ink directing means in its adjusted position, and means for varying the contact pressure between said ink supplying and ink transferring rolls.

2,655,104
INKING MECHANISM FOR PRINTING PRESSES
Walter S. Jobb, Cicero, Ill.
Application August 26, 1949, Serial No. 112,597
8 Claims. (Cl. 101—365)



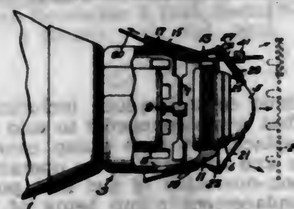
1. In an ink fountain for printing presses, in combination, an ink reservoir, an ink roll positioned to make contact with ink in said reservoir, means for regulating the amount of ink carried from the reservoir by said roll comprising a relatively thin resilient blade extending substantially the entire length of said roll and supported generally tangentially of said roll with one edge disposed in predetermined spaced relation to the peripheral surface of the roll, means for adjusting the position of said one edge of the blade with respect to the roll including a first series of pressure applying members spaced apart longitudinally of said blade and bearing against the face of the blade remote from said roll, and a second series of pressure applying members spaced apart longitudinally of said blade and extending transversely of said roll to bear against the other face of the blade in opposed relation to said first series of members, each of said pressure applying members being adjustable individually to urge said blade toward or away from the surface of said roll.

2,655,105
MOTOR DROPPER
George E. Hansche, Albuquerque, N. Mex., assignor to the United States of America as represented by the Secretary of the Navy
Application August 1, 1952, Serial No. 302,208
6 Claims. (Cl. 102—49)



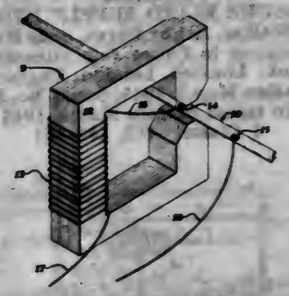
1. In combination with a pair of separable bodies having cooperating shoulders, a releasable coupling arrangement including means engaging said shoulders, a tapered ring normally retaining said engaging means in engagement with said shoulders, a source of pressure in one of said separable bodies, pressure-operated means retaining said tapered ring in engagement with said engaging means, locking means for said pressure-operated means, and a spring for moving said tapered ring out of engagement with said engaging means, said tapered ring being displaced by said spring upon reduction of the gas pressure below that of the spring pressure to permit release of said engaging means and separation of said shoulders, whereby said separable bodies will be permitted to separate.

2,655,106
ICE GUARD
Laurence A. O'Brien, South Orange, N. J., assignor to the United States of America as represented by the Secretary of War
Application June 3, 1948, Serial No. 30,880
1 Claim. (Cl. 102—70)



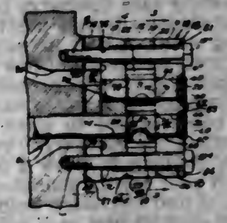
An ice guard for an artillery fuze, said ice guard comprising a resilient annulus having a radial section removed therefrom and forming two radial edges, one of said radial edges provided with a pair of spaced plates adapted to receive therebetween the other of said radial edges, said plates provided with aligned perforations, said annulus provided with a perforation adjacent the said other edge and adapted to be aligned with said perforations, a plurality of spaced tabs along the peripheral edge of said annulus substantially at right angles thereto, said guard stressed over the nose of said fuse until said perforations are in alignment and said tabs are in gripping relationship to said nose whereupon an arming wire is inserted in said perforations to maintain said ice guard in releasable engagement with said fuze.

2,655,107
ELECTROMAGNETIC FLUID PUMP
Nat H. Godbold, Idaho Falls, Idaho, assignor to the United States of America as represented by the United States Atomic Energy Commission
Application September 1, 1950, Serial No. 182,833
3 Claims. (Cl. 103—1)



1. An electromagnetic fluid pump comprising a magnetic structure having opposed pole pieces and a fluid duct, means for supporting said fluid duct between said pole pieces, first means for connecting the terminal of an electric energy source to said duct between the pole pieces, and second means for connecting the other terminal of the electric energy source to the fluid duct remote from said pole pieces at a position on the perimeter of the duct similar to that of the first means.

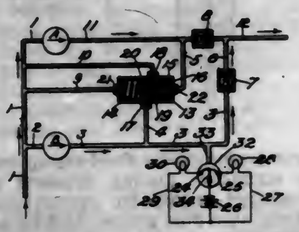
2,655,108
PUMP
Herbert C. Osborne, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Delaware
Application May 24, 1948, Serial No. 28,891
11 Claims. (Cl. 103—3)



1. In a pump unit of the gear type, the combination of a support having a mounting surface provided with inlet and outlet conduits ending at said surface, a gear housing plate having two intersecting cylindrical bores for slidably receiving two meshing gears, a closed end plate for closing one end of said bores, and a mounting plate for closing the other ends of said bores and having an aperture to pass a drive shaft, a drive shaft in said latter plate and provided with a gear in said gear housing plate, a second gear in said gear housing plate, meshing with the first-mentioned gear, said mounting plate having apertures communicating with the opposite sides of the intermeshing gear teeth, and a connection plate adapted to be engaged by the mounting plate and said support, said connection plate having apertures enlarged with respect to the mounting plate apertures for communicating with these apertures which form inlet and discharge ports, said enlarged apertures extending also to the left and the right parts of the connection plate, whereby the pump may be ar-

ranged for right-hand or left-hand rotation while still maintaining the inlet and discharge apertures of said connection plate in position for engagement with said inlet and outlet conduits located anywhere in the area of said enlarged apertures.

2,655,109
PRESSURE FLUID SUPPLY SYSTEM
Daniel N. Walker, Ashby Parva, near Rugby, England, assignor to Power Jets (Research & Development) Limited, London, England
Application May 3, 1945, Serial No. 591,750
In Great Britain May 3, 1944
1 Claim. (Cl. 103—5)



A pressure fluid supply system including a pair of pumping elements for continuous operation, a common suction conduit and a common discharge conduit having suction and discharge branches respectively connecting said pumping elements in parallel for parallel suction and parallel discharge flow, non-return valves in both said discharge branches for permitting flow only in the direction of discharge, a main by-pass conduit connecting the said discharge branch of one of said pumping elements from a point between said one pumping element and its said non-return valve to said common suction conduit, a pressure actuated flow control valve means in said by-pass conduit for controlling the flow therein, and a pressure conduit connecting said discharge branch of said other pumping element from a point between said other pumping element and its said non-return valve to said pressure actuated flow control valve means for supplying it with pressure fluid from said other pumping element to actuate it, said valve means being biased to close the said by-pass conduit when the discharge pressure of said other pumping element is below a predetermined value to permit said pair of pumping elements to pump in parallel and discharge fluid to said common discharge conduit and said valve means being actuated by said pressure fluid when said discharge pressure of said other pumping element is above said predetermined value to open said by-pass conduit to permit said one pumping element to discharge fluid to said common suction while said other pumping element continues to discharge fluid to said common discharge conduit.

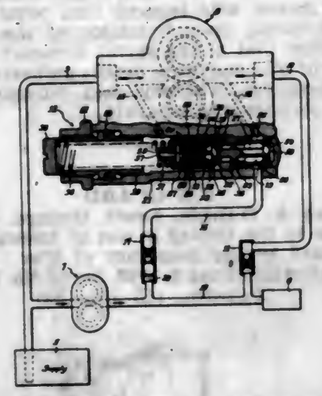
2,655,110
MULTIPLE PUMP
William L. Sanbern, Whitefish Bay, Wis.
Application January 11, 1951, Serial No. 205,498
12 Claims. (Cl. 103—6)

1. In a combination oil and air pump, a housing having a circular air pump chamber therein one side face of which constitutes a sealing surface, and the opposed side face thereof having a discharge port, a rotor mounted in the air pump chamber, pumping elements associated with the rotor adapted to produce a pumping action in the pump chamber when the rotor is rotated, means for rotating the rotor, said discharge port overlapping the adjacent side of said rotor, whereby the rotor is urged into sealing engagement with said sealing surface, said housing also having an oil pump chamber adjoining



the air pump chamber adjacent said sealing surface, an oil pump rotor in the oil pump chamber mounted rigidly with and rotating with the air pump rotor, and means for relieving pressure along said sealing surface.

2,655,111
FLUID CIRCULATING ARRANGEMENT FOR HYDRAULIC PRESSURE SYSTEMS
Ernest H. Schanzlin, Cleveland, Ohio, assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application December 29, 1948, Serial No. 67,906
7 Claims. (Cl. 103—11)

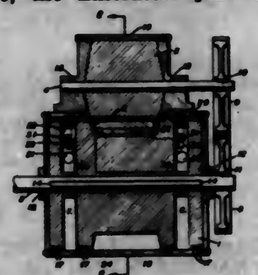


1. In a fluid control system including a fluid supply, a first pump connected to said supply, a positive displacement type pump connected to said supply and arranged to be operable in the event of non-operation of the first pump, said positive displacement pump being of the type allowing some reverse flow of fluid under pressure when said pump is not operating, and by-pass means for circulating back through said positive displacement type pump a fractional quantity of the fluid supplied by said first pump during operation of said first pump.

2,655,112
ROTARY PUMP OR MOTOR
Ambrose White, Kentwood, La.
Application June 20, 1952, Serial No. 294,587
11 Claims. (Cl. 103—125)

1. A rotary pump or motor comprising a rotor shaft; an elongated cylindrical rotor carried on and rotatable with said rotor shaft, said rotor being formed with an annular fluid space adjacent each end and extending inwardly from

the peripheral surface of the rotor, an intermediate annular cylinder space also extending inwardly from said peripheral surface, and a pair of closely spaced longitudinally and oppositely extending port passages running from the bottom surface of said cylinder space to respectively adjacent fluid spaces; a countershaft; a rotating abutment of cylindrical cross section and having a diameter equal to that of the bottom surface of the rotor cylinder space, carried on and rotatable with said countershaft in line contact relation with said bottom surface, said rotating abutment being formed with an axially extending, symmetrical peripheral recess of arcuate shape, the innermost part of which is



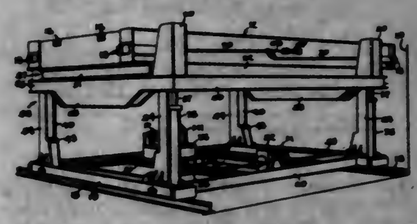
spaced from the bottom surface of the rotor cylinder space a distance equal to the depth of said cylinder space; a piston member fixed to said rotor within the cylinder space and over said port passages, said piston member being formed with an outer configuration complementally engaging and spanning the recess of the rotating abutment and having circumferentially spaced nozzle openings in said outer configuration leading respectively to said port passages; and a sealed casing fitting closely over and conforming to the sides and ends of said rotor and rotating abutment, said casing having openings communicating separately with each of the annular fluid spaces of the rotor.

2,655,113
STAGER AND GUIDE
Warren F. Ward, Dallas, Tex.
Application November 3, 1949, Serial No. 125,230
6 Claims. (Cl. 103—225)



1. In oil well equipment, a combined rod guide and liquid supporting member for use on a sucker rod within a well casing, comprising a rubber body having a longitudinal bore therethrough, said body having an annular upper portion of enlarged diameter to seal outwardly against said casing and forming an upwardly facing liquid supporting cup, said body having a substantially C-shaped lower portion including a radially extending opening extending the full length of said C-shaped portion and communicating with said bore, and said upper portion having a slit disposed diagonally with respect to the axis of said bore and extending through the annular periphery of the cup into the bore adjacent said opening, a portion of the cup contiguous to the slit comprising a tab capable of flexing open to permit upward passage of liquid therepast and of reseating at the slit to prevent downward passage of liquid.

2,655,114
DROP PIT APPARATUS
Lloyd H. Heldeman and Hugh K. Hyberger, Muskegon, Mich., assignors to Manning, Maxwell & Moore, Inc., Muskegon, Mich., a corporation of New Jersey
Application August 24, 1950, Serial No. 181,264
21 Claims. (Cl. 104—33)

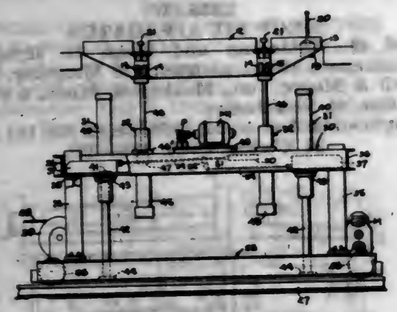


21. In a drop pit apparatus having a two section elevator table, in combination, a first power operated elevator mechanism for raising and lowering both table sections together, a second power operated elevator mechanism for raising and lowering one of the table sections alone, shiftable abutment members on said one table section adapted when projected to associate that section with said second mechanism for raising and lowering and when retracted to disassociate the section from the second mechanism, a power operated actuator for projecting and retracting said abutment members, a control system for the apparatus including a pair of manually operable controllers, control devices operative in response to a momentary actuation of one of said controllers when the table sections are in a lowered position for initiating the operation of said first mechanism and continuing such operation until the table sections are raised to a predetermined position, other control devices operative upon movement of the table sections to said predetermined position for rendering said one controller effective to initiate the operation of said actuator to project said abutment members, and still other control devices operative upon projection of said abutment members for rendering said one controller effective to control said second mechanism, said control devices being further operative to render the other controller effective to control said second mechanism when the abutment members are projected, to initiate the operation of said actuator for retracting the abutment members when said one table section is in its lower limit position, and to initiate the operation of said first mechanism for lowering the table sections when said abutment members have been retracted.

2,655,115
DROP PIT APPARATUS
Lloyd H. Heldeman and Hugh K. Hyberger, Muskegon, Mich., assignors to Manning, Maxwell & Moore, Inc., Muskegon, Mich., a corporation of New Jersey
Application August 24, 1950, Serial No. 181,265
5 Claims. (Cl. 104—33)

1. Apparatus for use in a pit intersecting and extending beneath a service track comprising, in combination, a drop table dimensioned to span the

pit and bridge the gap in the service track; means for releasably latching said drop table in pit bridging position, a carriage movable in said pit below said drop table, an elevator table mounted on said carriage for vertical movement, elevator mechanism mounted on said elevator table for raising and lowering the table relative to said



carriage, means carried by said elevator table and cooperating with means on said carriage when the table is in a raised position for supporting the table independently of said elevator mechanism, and other elevator mechanism mounted on said elevator table operative to raise and lower said drop table.

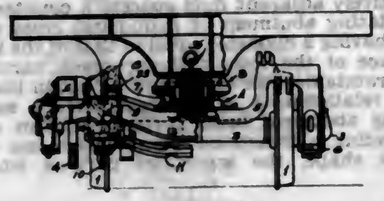
2,655,116
TILTING TRACK AMUSEMENT APPARATUS
John Pinkney Gowland, Santa Barbara, Calif.
Application June 2, 1949, Serial No. 96,741
In Great Britain June 2, 1948
9 Claims. (Cl. 104—58)



1. A length of tilting track comprising at least three substantially rigid track sections hingedly connected end to end for pivotal movement about axes extending crosswise of the track, each section having downwardly projecting fulcrum supporting means for supporting such section tiltably on a horizontal surface, the combination being such as to permit, when the track is placed on a plane horizontal surface with all said supporting means resting thereon, tilting movement between two extreme positions in each of which adjacent sections are inclined in opposite directions, the inclination of each section being oppositely directed in the two said positions respectively.

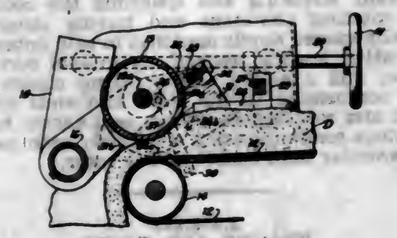
2,655,117
RAILWAY VEHICLE BODY AND TRUCK CENTRAL BEARING
James C. Travilla, University City, Mo., assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application October 10, 1949, Serial No. 120,587
6 Claims. (Cl. 105—199)

1. In a railway vehicle including a vehicle body and a swivel truck, a central bearing structure for supporting the body on the truck comprising members on the body and truck, respectively, having internesting center parts with upright cylinder-like portions opposing each other laterally for holding the members against relative lateral movement, said members being fixed on the vehicle body and truck, respectively, and including cooperating horizontal annular bearings facing downwardly and upwardly respectively and extending radially outwardly from said upright cylinder-like portions and supporting the entire vertical load of the body member and forming a non-rocking support of the body mem-



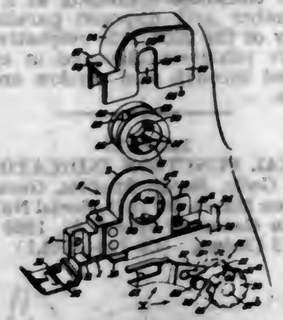
ber on the truck member during all normal uses of the vehicle, said bearings including friction means substantially preventing swiveling of the truck with respect to the body during all normal uses of the vehicle except as positively induced by movement of the vehicle over curved track.

2,655,118
DOUGH SHEETING APPARATUS FOR BAKERY MACHINES
Dean Whitehead, Oak Park, and Joseph F. Anetsberger, Northbrook, Ill., assignors to Anetsberger Brothers, Inc., Northbrook, Ill., a corporation of Illinois
Application August 13, 1951, Serial No. 241,519
10 Claims. (Cl. 107—12)



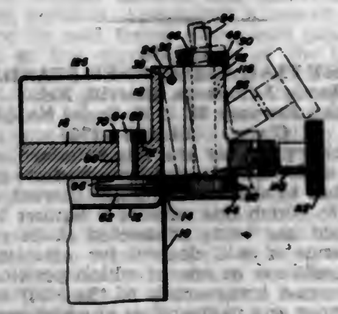
1. In dough sheeting apparatus, a belt conveyor, a dough roller located above the conveyor for cooperation therewith in sheeting dough passing between the roller and conveyor, means supporting the roller for adjustment toward and away from the conveyor to positions determining the thickness of the sheeted dough, a main pair of dough guides comprising vertically disposed plates located above the conveyor for laterally confining dough approaching the roller and spaced apart a distance corresponding to the desired width of the dough sheet, said plates being provided with convex forward edges conforming to an arc of the roller and positioned in close proximity to the roller when the roller is in lowermost position for preventing lateral flow of dough beyond the plane of the guides during the sheeting operation, a pair of supplementary guides each cooperating with one of said main guides and provided with arcuate portions cooperating with the roller for obstructing lateral flow of the dough beyond the plane of the guides when the roller is raised above said lowermost position, a transverse support for each pair of guides, and laterally adjustable means for securing the guides of each pair to the respective support for lateral adjustment of the guides to positions predetermining the width of the dough sheet.

2,655,119
ORNAMENTAL STITCHING ATTACHMENT FOR SEWING MACHINES
John P. Enos, Union, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application July 13, 1950, Serial No. 173,597
9 Claims. (Cl. 112—160)



1. An ornamental stitching attachment for a sewing machine having a presser-bar and a reciprocating needle-bar, comprising a frame designed to be connected to and supported by the presser-bar; a horizontally movable work-shifting member pivoted to oscillate relative to said frame; a horizontally disposed shaft journaled in bearings in said frame and removable endwise therefrom, a shoulder formed on said shaft and disposed substantially outside of the confines of said frame, coupling means on said shaft for releasably locking to said shaft any one of a plurality of unlike pattern cams; ratchet and pawl means actuated by said needle-bar for giving to said shaft step-by-step rotary motions; a pattern cam removably coupled to said shaft to be rotated thereby; means carried by said work-shifting member and actuated by said cam to shift the member horizontally; and a casing member fitted over said frame and engaging said shaft shoulder to prevent removal of said shaft from said frame while said casing member is in its normal frame-covering position.

2,655,120
DEVICE FOR RECRIMPING THE HEAD SEAMS OF DRUMS
Henry F. Niemann, Sedalia, Mo., assignor of fifty per cent to Sherman D. Beckley, Sedalia, Mo.
Application November 1, 1951, Serial No. 254,252
3 Claims. (Cl. 113—7)



1. A drum sealer comprising a base, an upstanding bracket on said base, a pressure block pivotally attached to said bracket adjacent the top thereof, a pair of ears on said base adjacent the bottom of said bracket, a yoke pivotally mounted on said ears, a screw in said yoke for pressing said pressure block toward said base, a longitudinal bore in said pressure block, a crimping roll including a shaft, said shaft journaled in said bore, means for rotating said shaft in said bore, a plurality of bores arranged in arcuate formation in said base, a beaded roller, a shaft on said roller, said shaft journaled in the central bore of said bores, a plurality of guide rollers mounted in said arcuately arranged bores adjacent the beaded roller, said guide rollers maintaining a pressure point normal to said crimping and beaded roller.

2,655,121
AUTOMATIC BOAT BAILER
John J. Cunco, Golden Meadow, La.
Application October 2, 1951, Serial No. 249,283
5 Claims. (Cl. 114—183)



1. An automatic boat bailer comprising a tubular member extending horizontally through an appropriate hole bored in the stern end of a boat below the static water level, a vertical flange at one end of said horizontal tubular member at the outer side of the boat, said flanged end of said tubular member providing a valve seat, a valve for said valve seat comprising a compressible ball check valve member, means hingedly supporting said ball check valve member from the top of said flange to close against said valve seat and stop means in the path of said hinged supporting means limiting the opening movement thereof.

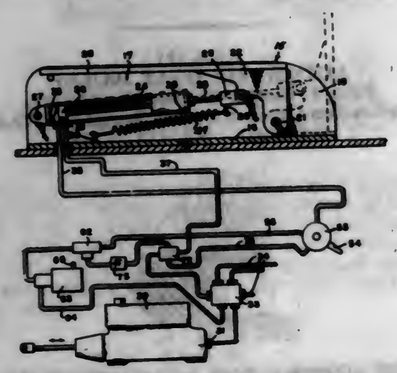
2,655,122
ANIMAL ALARM SCRATCHING DEVICE
Fred M. Adams, Shreveport, La.
Application March 2, 1951, Serial No. 213,568
4 Claims. (Cl. 116—1)



1. In a scratching device for animals, the combination with a bell and clapper of a main support, a base, an upper housing and a pivotally

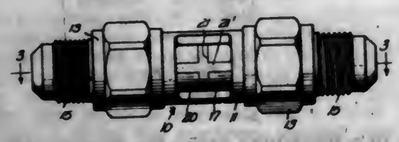
mounted scratching panel, said upper housing having an open bottom and a partially open front, said bell received in said housing and said clapper secured to the upper portion of said panel to extend within housing, said panel pivotally mounted in the base of said main support whereby movement of said panel will cause said bell to be sounded.

2,655,123
SIGNALING DEVICE FOR MOTOR VEHICLES
Shelton Lee Mobley, Waycross, Ga.
Application June 22, 1951, Serial No. 233,150
4 Claims. (Cl. 116—39)



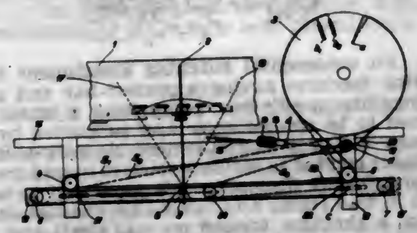
1. In a signalling apparatus for use with motor vehicles having a hydraulic brake system, a brake pedal a signalling arm pivotally mounted on the vehicle for movement in a horizontal plane, a cylinder, a piston movable in the cylinder, a rigid direct connection between the piston and the signalling arm, a master cylinder, a conduit leading to the master cylinder and in communication with a port in said cylinder on the pressure end of tha cylinder, a second conduit leading to the master cylinder and in communication with a port in the cylinder closely adjacent the first named port whereby the application of pressure to the brake pedal admits fluid into the first mentioned cylinder to move the piston and the rigid connection between the piston and the signalling arm to move the said arm about its pivot, and spring means operatively connected with the signalling arm to move the said arm in an opposite direction about its pivot when pressure to the brake pedal is relieved.

2,655,124
LIQUID INDICATOR DEVICE
Charles V. Gary, Elmhurst, and Robert S. Dickert, Chicago, Ill., assignors to Henry Valve Company, Incorporated, Melrose Park, Ill., a corporation of Illinois
Application October 25, 1950, Serial No. 191,992
1 Claim. (Cl. 116—117)



A liquid indicator device comprising a tubular metal housing having a lateral viewing window formed in a wall thereof, and a transparent tube in said housing exposed transversely of the tube axis at said window, said housing having a cruciform opening formed through a wall thereof which is spaced transversely of the tube axis from said window, which opening is viewable through said window and tube, said opening having distinct intersecting arm portions of substantially equal thickness extending at a 90° angle to one another and disposed parallel to and transversely of the tube axis, respectively, which portions are relatively distorted in appearance when viewed through said window and a liquid in the tube.

2,655,125
DUAL FUNCTION INDICATOR
Horst Golle, Berlin-Steglitz, Germany
Application March 20, 1951, Serial No. 216,497
In Germany March 21, 1950
5 Claims. (Cl. 116—124.1)



1. A dual indicator system for radio sets and for indicating the position of their adjustable tuning members comprising one indicating pointer, three drives, two adjustable tuning members and two driving members, said pointer being rotatably attached to two of said drives, the first of said driving members being coupled with said two drives to which said pointer is rotatably attached, and adapted to adjust the position of one of said adjustable tuning members and to move simultaneously two of said drives, thus moving by its actuation said pointer in a rectilinear direction to give a first indication, the second of said driving members being arranged independently of said first driving member and being not in connection with said one adjustable tuning member and coupled with the third of said drives adapted to adjust the position of the second of said adjustable tuning members and to move by its actuation one of said other two drives without reaction on said first driving member and said first adjustable tuning member in such a way as to produce an angular movement of said pointer, thus effecting a second indication.

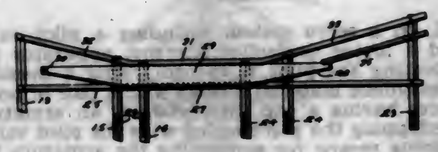
2,655,126
UNITARY FLAG AND BANNER STANDARD
Harijs J. Francis, Merrill, Nebr.
Application January 23, 1953, Serial No. 332,961
1 Claim. (Cl. 116—173)

In a unitary banner and flag standard, a staff, a flexible element supported intermediate its ends on said staff to shift transversely thereof, a support bar to which one edge of a banner is connected, said bar being connected at its ends to opposite ends of said element for adjustment to selected positions in one of which positions the bar is disposed transversely of the staff to support a banner and in the other of which positions the bar extends longitudinally of the staff to support a flag, responsive to shifting of the flexible element upon the staff, and securing means provided upon said staff to which the flexible element is attached when the bar is shifted to its



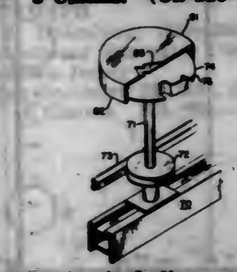
position longitudinally of the staff to support a flag.

2,655,127
BATTER APPLYING APPARATUS
Jaxon Odell Hice and James John Meadows, St. Simons Island, Ga., assignors to Seapak Corporation, St. Simons Island, Ga.
Original application February 23, 1951, Serial No. 212,271. Divided and this application February 23, 1951, Serial No. 212,273
2 Claims. (Cl. 118—30)



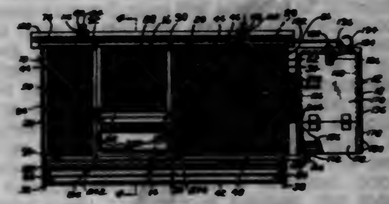
2. A batter coating structure comprising an upstanding frame, a pair of horizontal supporting rails fixed in said frame, a batter pan supported on said rails, said pan having a flat horizontal central bottom portion and upwardly inclined bottom portions at each end, a pair of guide rails carried by said frame above said pan, and disposed at the opposite sides of the latter, said pair of guide rails including horizontal intermediate rail portions, substantially coplanar with the upper edges of said pan, and substantially contiguous with said central bottom portion, a pair of downwardly and inwardly inclined guide rail portions connected with one end of said intermediate portions, upwardly and outwardly inclined rail portions extending from the opposite ends of said intermediate portions, said inclined rail portions overlying said inclined bottom portions, horizontal rail portions extending from said outwardly inclined rail portions, and a drain plate inclined toward said batter pan carried by said frame below said upwardly and outwardly inclined rail portions for draining the drippings into said pan.

2,655,128
ELECTROSTATIC COATING APPARATUS
Edwin M. Ramsburg, Indianapolis, Ind., assignor, by mesne assignments, to Ramsburg Electro-Coating Corp., Indianapolis, Ind., a corporation of Indiana
Original application March 16, 1946, Serial No. 654,830. Divided and this application November 18, 1950, Serial No. 196,274
3 Claims. (Cl. 118—51)



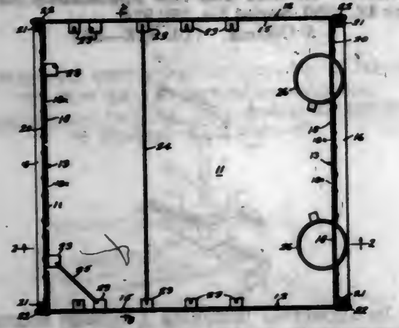
1. In apparatus including a voltage source for electrostatically coating an electrically conducting article by exposing it to a spray of charged particles in a coating zone, the combination of a rigid support, a plurality of article-engaging portions carried by said support, resilient means acting between two of said portions and urging them apart when both engage the article, said article-engaging portions including one which is rigid and rigid with the support to locate the article relative to the support; one of the two portions between which said resilient means acts being electrically conductive and connected to said voltage source to maintain the article at an electrical potential substantially different from that of the charged particles.

2,655,129
CHINCHILLA CAGE
Louis Miller, Wathena, Kans.
Application March 7, 1951, Serial No. 214,965
4 Claims. (Cl. 119—17)



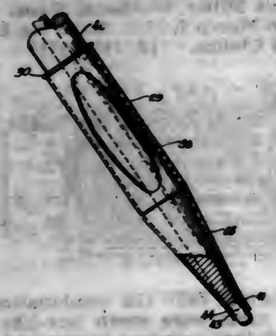
1. In an animal cage the combination which comprises a main wire mesh box-like section having spaced door openings in one end thereof, parallel tracks mounted on the end of the section in which the door openings are provided and positioned at the upper and lower ends of the said openings, doors slidably mounted in said tracks, an auxiliary box-like section of the cage having spaced door openings in a side wall thereof positioned against the end wall of the main section in which the door openings are positioned, means removably suspending the auxiliary section from the main section, parallel tracks mounted on the side of the auxiliary section in which the door openings are positioned and located to correspond with the tracks of the main section, doors slidably mounted in the tracks of the auxiliary section, and means actuating the doors of the auxiliary section with the doors of the main section of the cage.

2,655,130
CHICK CRATE WATER HOLDER
Jack W. Simmons, Tallahassee, Fla., assignor to Kiberia Crate & Box Company, Tallahassee, Fla., a corporation of Georgia
Application September 12, 1949, Serial No. 115,259
6 Claims. (Cl. 119—18)



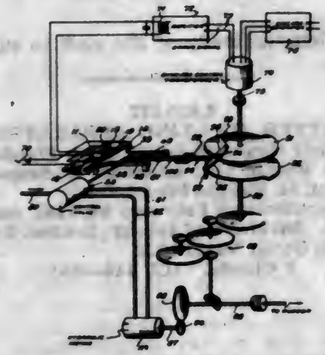
1. In a wooden poultry crate having a wall structure including slats, a pair of adjacent slats having in each a longitudinal slot opening to its bottom end, the bottom ends of the portions of the slats between the slots being spaced above the bottom ends of those portions of the slats outside the slots, and a watering cup applied upwardly over said spaced ends with the sides of the cup engaged in said longitudinal slots.

2,655,131
DEVICE FOR PROTECTING AND REINFORCING THE PROJECTING ENDS OF PAPER WRAPPED CRAYONS
Robert H. Wendt, Evanston, Ill.
Application June 29, 1951, Serial No. 234,377
3 Claims. (Cl. 120—84)



1. A device for protecting and reinforcing the crayon filling of a paper wrapped crayon, comprising a protector unit having a tubular body portion provided with a cylindrical bore of a size to receive and frictionally engage the body of a paper wrapped crayon adjacent the writing end thereof, said protector unit having an integral tapered rigid extension carried by said tubular body portion, said tapered extension having an inner frusto-conical surface surrounding the tapered paper wrapping of the crayon and having a varying diameter throughout its length to frictionally engage the outer conical surface of the paper wrapping throughout the tapering portion of the wrapper, the said tapered extension being provided with an elongated cylindrical tubular extension extending beyond the paper of the crayon and having an inner diameter substantially equal to the diameter of the projecting lead portion of the crayon and frictionally engaging the cylindrical projecting lead portion of the crayon over the major portion of its length to reinforce and support the projecting lead portion of the crayon against breaking and bending stresses, the said protector unit being slidably adjustable on the paper wrapped crayon body until the tubular extension surrounding the lead of the crayon terminates closely adjacent to the end of the lead and the inner frusto-conical extension is in frictional engagement throughout its length with the entire outer conical surface of the tapered portion of the paper wrapping, to give a maximum reinforcement against bending and breaking stresses when a minimum amount of the crayon lead is projecting from the unit.

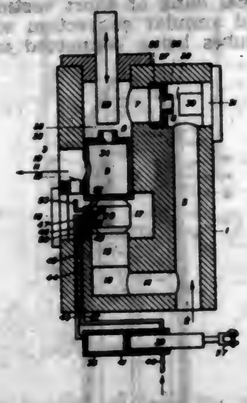
2,655,132
LINEAR MOTION MAGNETIC MOTOR
Richard Scheib, Jr., Hempstead, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application April 2, 1948, Serial No. 18,543
4 Claims. (Cl. 121—41)



1. In a servo system including a pilot valve and a motor controlled thereby, apparatus for actuating the pilot valve comprising a member of magnetic material formed with a pair of polepieces having a gap therebetween, an armature overlapping the gap coupled with the pilot valve, yielding means for supporting the armature for limited endwise movement in either direction from a neutral position, a field winding for the member, a constant source of alternating current for exciting the field winding, a control winding, a variable source of alternating current therefor effective to displace the armature, and means comprising a linkage mechanism actuated by the motor for restoring the armature to its neutral position for the purpose of preventing the operation of the motor beyond predetermined limits.

2,655,133
SERVO MECHANISM
Lennart Paul Palmen, Kariskoga, Sweden, assignor to Aktiebolaget Bofors, Bofors, Sweden, a joint-stock company of Sweden
Application March 28, 1950, Serial No. 152,400
In Sweden April 26, 1949
1 Claim. (Cl. 121—41)

An hydraulic servomechanism to control an arbitrary body, which mechanism comprises two antagonistic pistons of different areas, and with opposite actions, the smaller being actuated by a particular working pressure, and the larger being actuated by a pressure resulting between two throttles, connected in series, through which pressure fluid from said working pressure is adapted to flow on its way to an arbitrarily chosen lower outlet pressure, one of said throttles being fixed, and the other being responsive to impulses from both controlling and controlled elements,



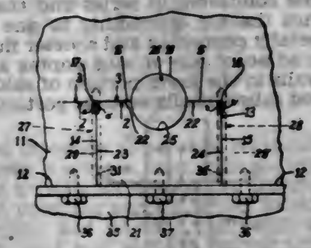
characterized by the members constituting each of said throttles having the same mechanical design and adapted to maintain identical flow conditions at both throttles when their positions are similar irrespective of the viscosity of the fluid, and by the area of the larger piston being a multiple of that of the smaller one.

2,655,134
HYDRAULIC WINDSHIELD WIPER MOTOR
Roland E. Figure, Tarentum, Pa., and Earl A. Otto, Reseda, Calif.
Application July 20, 1951, Serial No. 237,262
3 Claims. (Cl. 121—97)



1. A hydraulic motor comprising a semicircular casing, a partition in the casing defining an upper chamber and a lower chamber therein, an oscillatable shaft journalled in the sides of the casing in the upper chamber and having a hollow end adapted for attaching a fluid supply pipe thereto, the other end of the shaft being solid and projecting outwardly of the casing and adapted for performing work, a hollow vane fixed to the shaft and having a working fit in the upper chamber to form a pair of expansible chambers at opposite sides of the vane, said shaft having a lateral port leading to the interior of the vane and said vane having ports at each side leading to the respective expansible chambers, a spring biased double valve in the vane alternately opening and closing the ports therein, valve actuating means projecting from opposite sides of the vane and movable into engagement with the partition upon opposite swinging movement of the vane to oppositely actuate the valve to open one port in the vane and close the other port therein, said lower chamber having a return pipe connected thereto, an outlet valve in the partition for each expansible chamber and actuated by the vane, and a spring biased rocker arm connecting the outlet valves to each other for opposite opening and closing movement.

2,655,135
SEAL STRUCTURE FOR USE BETWEEN A WALL AND A PLATE ASSEMBLED THEREWITH
William R. Dalenberg, Riverdale, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application December 29, 1948, Serial No. 67,943
6 Claims. (Cl. 121—194)

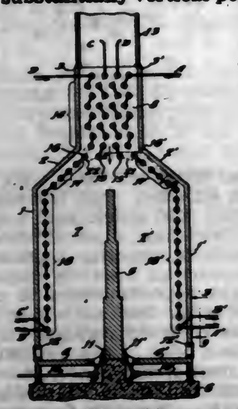


1. In a seal structure for a wall containing a notch within an outer edge thereof and a plate disposed within said notch, said wall having opposed edges extending inwardly from said outer edge to constitute opposite boundaries for said notch and having an inwardly disposed edge intersecting said opposite edges to constitute an inner boundary for the notch, said plate having an inner edge disposed contiguously to said inwardly disposed edge of the wall and having opposite edges respectively contiguous with said inwardly directed edges of the wall, there being recesses extending inwardly from said outer edge of the wall to and beyond said inwardly disposed edge, said recesses being in respective registry with said inwardly directed edges and each recess having a portion of its longitudinal side wall elements formed upon the associated inwardly directed edge of the side wall and another portion formed upon the associated contiguous edge of the plate, and tubular sealing elements of pliable elastic material respectively in the recesses and having peripheries conforming to the side wall elements of said recesses, and means exerting an endwise thrust upon the sealing elements in the direction urging them further into the recesses and holding them under a stressed condition pressing their peripheries against the side wall elements of the recesses.

2,655,136
HEATING OF FLUIDS
Marion W. Barnes, Wilmette, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application October 24, 1950, Serial No. 191,393
4 Claims. (Cl. 122—364)

1. Heating apparatus for effecting the heating of a plurality of fluid streams and comprising in combination, a furnace chamber having a floor and side and end walls defining the lower portion thereof, a longitudinal center wall dividing said lower portion into separate radiant heating zones, inwardly sloping side wall sections extending from above said lower portion of said chamber and connecting with relatively close spaced upper side walls, the latter defining an upper con-

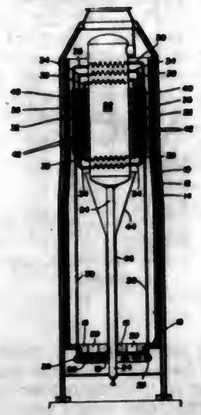
vection heating zone, a plurality of burner means spaced along and directed towards each side of said center wall providing radiant heating within each of said radiant heating zones and resulting hot combustion gases effecting convection heating within said upper convection heating zone, a plurality of rows of horizontally positioned fluid conduits arranged in staggered formation within said upper convection heating zone, said plurality of fluid conduits extending substantially the full length of said heating apparatus, two separate banks of shorter fluid conduits horizontally positioned in a substantially end to end relationship adjacent each sloping wall and each vertical side wall of each side of said furnace chamber, one substantially vertical portion of said staggered fluid conduits within said convection heating zone connected in series and the lowermost conduit thereof connecting to one of said separate serially connected and shorter fluid conduit banks adjacent one of said sloping and vertical side walls in the lower portion of said chamber, a second substantially vertical portion of said



staggered conduits with said convection heating zone connected in series, with the lowermost conduit thereof connecting to the second of the separate tube banks adjacent aforesaid sloping and side wall of said furnace chamber, a third substantially vertical portion of said staggered conduits within said convection heating zone connected in series and having the lowermost conduit thereof connecting to one of said separate shorter tube banks serially connected and positioned adjacent the other of said sloping and side walls of said furnace chamber, and the remaining portion of said staggered conduits in said convection heating zone connected in series with the lowermost tube thereof connecting with the remaining bank of shorter fluid conduits which are serially connected and positioned adjacent the last mentioned sloping and side wall of said furnace chamber, whereby four separate fluid streams may be heated as they pass in series flow downwardly through a plurality of series connected horizontally positioned fluid conduits to the lower radiantly heated portion of said furnace chamber.

2,655,137
UPRIGHT BOILER
John W. Threckmorton and John S. Wallis, New York, N. Y., assignors to Petro-Chem Process Company Incorporated, New York, N. Y., a corporation of Delaware
Application March 22, 1949, Serial No. 82,876
3 Claims. (Cl. 122—281)

1. A vertical boiler having distinct heating zones, comprising a tall cylindrical combustion chamber, an upper drum centrally located in the combustion chamber at the upper end and forming an annular convection zone of the furnace, a single circular bank of long vertical tubes near the walls of the cylindrical combustion chamber extending through the convection zone and connected to the upper drum near the top, at least one cylindrical bank of short vertical tubes located in said annular convection zone, each of said short tubes being connected to the upper

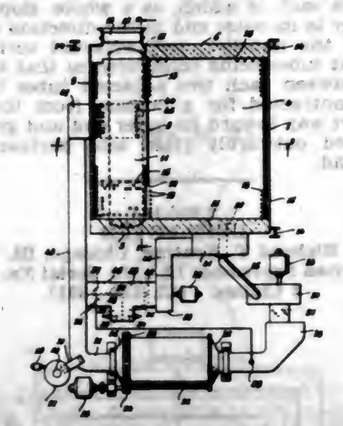


drum near its ends and having extended surfaces over substantially its entire length, a central standpipe, axial burners within the unobstructed radiant zone of the furnace formed around the standpipe and within the circular bank of vertical tubes below the drum, and a drum below the burners to which the lower ends of the long tubes and the standpipe are connected, the long tubes having smooth outer surfaces in the radiant heating zone and having extended surfaces only in the convection zone.

2,655,138
AIR HEATER MOUNTED IN THE CONVECTION SECTION OF FURNACES
Fernando Falla, Maplewood, N. J., assignor to Kennedy-Van Saun Mfg. & Eng. Corporation, New York, N. Y., a corporation of Delaware
Original application November 29, 1948, Serial No. 62,525. Divided and this application November 9, 1950, Serial No. 194,750
1 Claim. (Cl. 122—336)

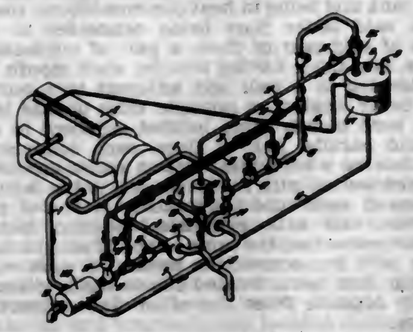
In combination with a furnace having a combustion chamber having a burner in one wall and steam generating elements lining the remaining walls including the roof and floor of the chamber, an outlet passage at one side of the combustion chamber and communicating with the combustion chamber at the wall arranged with the burner for the gases of combustion from the combustion chamber, a water and steam drum at the top and a water and mud drum at the bottom of the outlet passage connected to the steam generating elements of the combustion chamber and tubes connecting the drums and extending vertically of the passage to form a convection section of the furnace, the drums having corresponding portions free of the tubes to form a space between sections of the tubes, an air heater comprising a series of tubes connected at the opposite ends to headers and said tubes and headers mounted in the outlet passage in the space between sections of the convection tubes and the headers having portions extending

exteriorly of the convection section of the furnace with one portion arranged with an air inlet to the heater and the other portion arranged for communication with a place of use of the heated



air to deliver heated air from the heater to the place of use and the tubes of the heater being in vertical alignment with the tubes of the convection section to form a uniform convection surface gas passage between the drums.

2,655,139
PUMP PRIMING
Carl A. Bierlein, Cleveland, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 19, 1951, Serial No. 232,433
7 Claims. (Cl. 123—41.09)



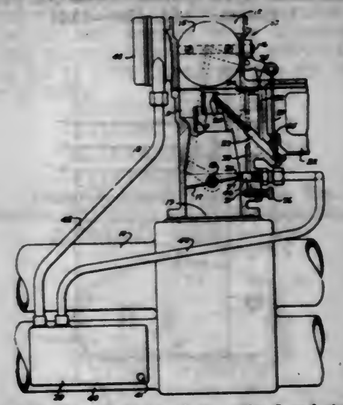
1. The combination of a driven, liquid pump having a normally open discharge valve and serving as a priming pump, a second driven, liquid pump, requiring priming, and having a normally open discharge valve, an exhauster having a fluid flow passageway and a suction passage communicating therewith, a suction pipe including a check valve interconnecting the exhauster suction passage and second pump to apply suction thereto, pressure operated means connected to the outlet of the priming pump discharge valve to close the second pump discharge valve to apply suction and prime said pump, and a second pressure operated means connected to the inlet side of said second pump discharge valve to close the priming pump discharge valve and permit the return of the discharge valve of the second pump to return to the normal, open position after build-up of liquid pressure in said second pump.

2,655,140
FUEL INJECTION APPARATUS
Royal Lee, Elm Grove, Wis.
Application December 1, 1947, Serial No. 788,991
8 Claims. (Cl. 123—33)



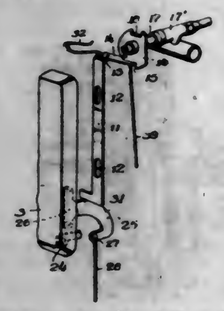
1. Fuel injection apparatus, comprising an injector body having a bore with an injector section and a retractor section, an injector plunger having a pumping portion fitting in said injector bore section and forming therewith a pumping chamber, and said plunger having another portion fitting in said retractor bore section, and spring means for urging said plunger on an injection stroke, there being an annular chamber formed between the said plunger and the retractor bore section, adapted to receive liquid under pressure for retracting said plunger.

2,655,141
CARBURETOR DEICER
Arthur A. Hayden, Kenosha, Wis., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application June 16, 1951, Serial No. 231,946
3 Claims. (Cl. 123—122)



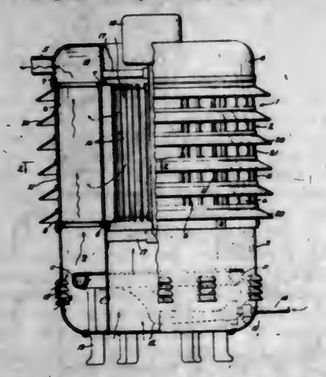
1. In a carburetor having a fuel mixture conduit, a throttle valve therein, a constant level fuel chamber, a fuel port in the wall of said conduit adjacent the edge of said throttle valve, restricted passage means connecting said fuel chamber and said port, said passage means including an enlarged portion immediately adjacent said port, said enlarged portion being open at its outer end, and a removable fitting including a restricted orifice secured in the opening of said enlarged portion, and a tubular conduit secured at one end to said fitting and at the other end to a source of heated air.

2,655,142
SAFETY DEVICE FOR GAS OVENS
Thomas Estis Phares, Shelbyville, Ind., assignor to Chambers Corporation, a corporation of Indiana
Application April 14, 1949, Serial No. 87,547
10 Claims. (Cl. 126—42)



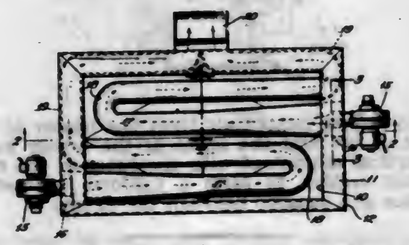
1. In an oven, a gas burner, a valve rotatable to control the flow of gas to said burner, a disk rotatable with said valve, a safety lock bar slidable in a vertical direction, said bar when in its uppermost position engaging said disk to prevent rotation of said valve from closed position, a hinged door adjacent the front of said oven, and a door stop movable with said door, one edge of said door stop being cam-shaped, the lower end of said safety lock bar engaging said cam-shaped edge to position said bar, said cam-shaped edge holding said bar in its uppermost position when said door is closed.

2,655,143
FUEL BURNING AIR HEATER WITH UPRIGHT TUBES
George B. Herbster, Cleveland, Ohio, assignor to Herbster-Schmiler, Inc., Cleveland, Ohio, a corporation of Ohio
Application April 6, 1948, Serial No. 19,462
1 Claim. (Cl. 126—110)



A heater comprising a plurality of upright stationary tubes arranged in an annular row about an upright axis and in spaced apart face to face relation to each other, means providing an annular combustion chamber at the bottom of said tubes and in communication at its top therewith, a gas burner having upwardly discharging jets arranged in said chamber, an exhaust header at the upper ends of the tubes and in communication at its bottom therewith, a rotary impeller coaxial with the row of tubes and enclosed thereby and having its outer periphery close to the inner periphery of the row of tubes, each of said tubes being elongated in horizontal cross section and having the major axis of its horizontal cross section non-radial and non-tangential with respect to the axis of the row so as to provide, between adjacent tubes, through passages each of which, as a whole, slopes from its inner to its outer end in the direction of rotation of the impeller, and adjacent surfaces of adjacent tubes being configured so that the passage between each two adjacent tubes is gradually contracted for a portion from the inner end part way toward its outer end and gradually expanded outwardly from said portion to its outer end.

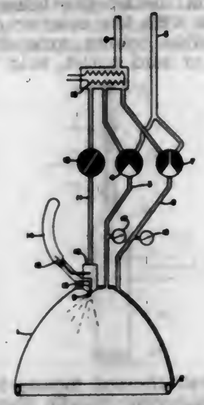
2,655,144
DEEP FRYER
Richard T. Keating, Chicago, Ill.
Application September 15, 1950, Serial No. 184,973
2 Claims. (Cl. 126—391)



1. The combination, with a deep fryer comprising a grease tank having hollow walls, a plurality of burners and a plurality of flues, a pair of said flues being parallel to each other and extending in said walls and along the opposite sides of the tank and in heat communication therewith, and additional flues extending in a third hollow wall and along the third side of said tank and being in heat communication therewith, said latter flues being connected to the exits of said pair of flues, a pair of combustion tubes, said tubes having mouths, each mouth being located in a wall and adjacent to a burner and being located on opposite sides of said tank with each mouth being located adjacent to one of said parallel pair of flues, each combustion tube having a horizontal section and a gradually tapered section with the larger end of the tapered section of each tube terminating in one of said mouths, and said cylindrical section having means connecting the same to one of said parallel flues, said flue connecting means of each combustion tube being located substantially diametrically opposite from the other flue connecting means.

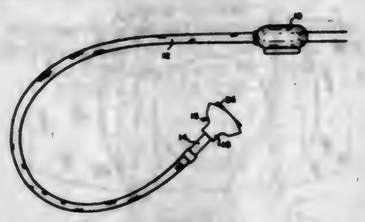
2,655,145
APPARATUS FOR A PERCUTANEOUS TREATMENT
Guillaume Heger, Paris, France
Application June 14, 1948, Serial No. 32,907
In France June 19, 1947
2 Claims. (Cl. 128—24.1)

1. In apparatus for the treatment of a surface area of the body to reactivate capillary action therein, a housing member of generally cap shape at the lower end providing a hollow chamber in the lower end thereof, means on the lower end of the housing to seal the same to the area of the body being treated, a suction passage through said housing and connected to a source of negative pressure, a pressure passage through said housing and connected to a source of positive pressure, a passage through said housing for the atomization of a medicinal preparation to be applied to the area of the body being treated, and separate valve means in said passage to control the application of negative pressure to the body



area to increase circulation of blood or positive pressure thereto to similarly increase circulation of blood and apply the medicinal preparation thereto through the atomization passage.

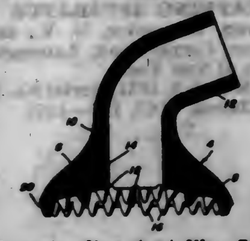
2,655,146
VIBRATORY MASSAGE APPARATUS
Albert J. Force, Jr., Oakland, Calif., assignor of fifty per cent to David Barer, Los Angeles, Calif.
Application December 15, 1951, Serial No. 261,890
4 Claims. (Cl. 128—38)



2. Means for inducing vibration in a suction hose of a vacuum cleaner or the like, comprising a substantially funnel-shaped member formed of resilient material and having a smaller cylindrical end for connection to a suction hose, a larger normally cylindrical end having a rim, and a frusto-conical portion connecting said cylindrical ends, a cylindrical member formed of rigid material and longitudinally located diametrically in said larger end with said larger end stretched to an elongated, substantially elliptical form thereby with said rim closely related to said rigid member for vibratory reaction therebetween when said suction hose is internally subjected to subatmospheric pressure for creating vibration in said suction hose.

2,655,147
SCALP MASSAGING, EXHILARATING, AND DANDRUFF REMOVING DEVICE
Waymond C. Rohrer, Norfolk, Nebr.
Application August 25, 1952, Serial No. 306,220
1 Claim. (Cl. 128—67)

A massaging and dandruff loosening and collecting attachment for a vacuum cleaner hose comprising a circular concavo-convex head having an L-shaped portion providing a complemental neck and an attaching nipple, said head having a centralized opening communicating with the bore of the neck and nipple for centrally concentrating air either discharging from or drawn through said opening, the working face of said head being concave and provided with a multi-

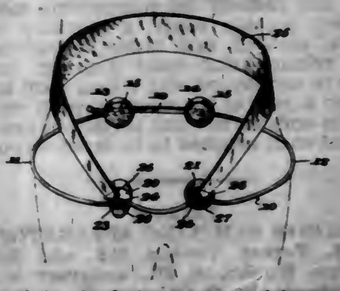


plicity of protruding teat-like flexibly resilient nodules, said face being further provided with circumferentially spaced equidistant radial grooves, the grooves opening at their inner ends into said opening and opening at their outer ends by way of the marginal edge of said head.

2,655,148
ADHESIVE FOR PLASTER OF PARIS FOR BANDAGE USE
James Joseph Eberl, Chester, and Alvin Richard Ingram, Glenshaw, Pa., assignors to Johnson & Johnson, a corporation of New Jersey
No Drawing. Application February 1, 1950, Serial No. 141,848
11 Claims. (Cl. 128—91)

9. A plaster of Paris bandage material comprising a flexible carrier and a coating of plaster of Paris thereon, the plaster of Paris being in the form of fine particles bonded to one another and to the flexible carrier by a nonwater-swellable adhesive which is dispersed throughout the plaster of Paris before coating said plaster of Paris on said carrier, by mixing an emulsion of said adhesive with said plaster of Paris to form a water slurry of plaster of Paris containing adhesive, said adhesive at the time the plaster of Paris is coated on said carrier being nonswellable in water and present in an amount within the range of from 0.1 to 2.5% based on the dry weight of plaster of Paris.

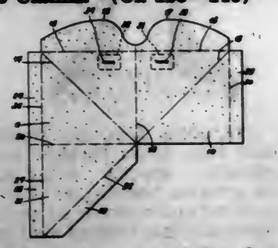
2,655,149
TRUSS
Edgar E. France, Quitman, Ga.
Application November 17, 1950, Serial No. 196,240
5 Claims. (Cl. 128—104)



1. An abdominal truss comprising a frame member adapted to extend horizontally about the hips of a wearer, a pad fixed to the front of said frame member for pressing against a ruptured area of a body, and a strap having its ends attached to the front of the frame member said

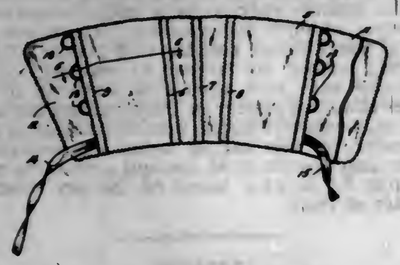
strap being otherwise unattached to said frame member and being adapted to extend upwardly around the small of a wearer's back to provide an upward pull on the pad.

2,655,150
BREATHING APPARATUS
Charles D. Cupp, Lancaster, N. Y., assignor to Scott Aviation Corporation, Lancaster, N. Y., a corporation of New York
Application March 8, 1951, Serial No. 214,584
3 Claims. (Cl. 128—146)



1. A breathing apparatus of the character described comprising: a mask consisting of two rectangular pieces of porous material connected together at their forward and lower edges, and folded over at their rear edges to form hems; and means for holding said mask against the face of the wearer.

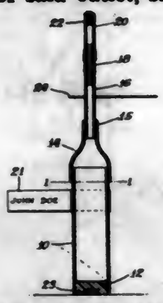
2,655,151
INFANT'S BAND
Roy A. Wassom and Lennis M. Wassom, Nardin, Okla.
Application July 13, 1951, Serial No. 236,492
1 Claim. (Cl. 128—167)



A device of the character described comprising an elongated sheet having substantially parallel arcuate longitudinal edges, a pair of tapes sewed to one face of said sheet inwardly of the ends thereof and radially interconnecting said upper and lower arcuate edges, a plurality of loops sewed to each of said tapes in longitudinally spaced relation and each loop on one tape adapted to correspond with a loop upon the other tape, and a pair of tie members each secured at one of its ends to one end portion of one of said tapes and each adapted to be laced through said loops.

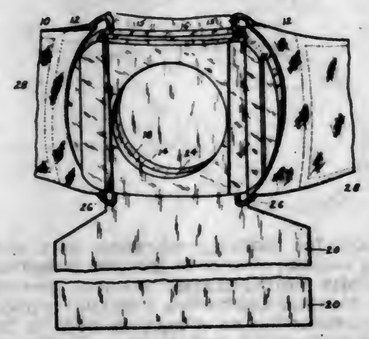
2,655,152
BLOOD SAMPLING APPARATUS
Milton L. Turner, Towson, Md., and Robert F. McGrew, Waukegan, Ill., assignors to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois
Application January 30, 1951, Serial No. 208,561
4 Claims. (Cl. 128—276)

3. A disposable blood sampling device of the type described, comprising; a resilient cylindrical tube having one end sealed closed and the other end partially closed with an axial outlet of smaller diameter than the said tube extending therethrough and projecting outwardly therefrom, said axial outlet providing unobstructed communication with the interior of said tube, a length of flexible tubing extending outwardly from the end of said outlet, said tubing having



at the outer end thereof means for detachably securing a hypodermic needle thereto for communication with a fluid source, and a protective cap mounted on said means to prevent bacterial contamination, said tube returning to substantially its original shape and exerting a suction force after being compressed, thereby facilitating the collection of the fluid sample.

2,655,153
SURGICAL APPARATUS
Henry J. Kletz, St. Louis, Mo.
Application February 4, 1949, Serial No. 74,557
12 Claims. (Cl. 128—283)



12. Apparatus that can be placed adjacent a surgical opening to receive and hold the discharge from that opening and that comprises a support of stiff material having the form of an arcuate plate, an opening through said support, a pouch, an opening in said pouch that is registerable with said opening in said support, spaced guides on said support, and a retainer, said guides being spaced apart to receive and hold said retainer, said retainer engaging said pouch and securing said pouch to said support, said guides being elongated and flat.

2,655,154
VALVULOTOME
Bruno Richter, Glen Ellyn, Ill.
Continuation of application Serial No. 259,190, November 30, 1951. This application December 5, 1952, Serial No. 324,200
4 Claims. (Cl. 128—305)

4. A valvulotome comprising a casing, opposed cutting blades positioned adjacent one end of said casing and pivotally connected together at one end for movement toward and away from each other, a shaft extending longitudinally of and connected to said casing for reciprocatory movement, opposed arms pivotally connected together at one end to said shaft, the other end of each arm being pivotally connected to the other



end of the corresponding blade, spring means operatively connected to said arms for urging said blades away from each other, and hand actuable means operatively connected to said shaft for effecting the reciprocatory movement of the latter to thereby cause the blades to move toward and away from each other.

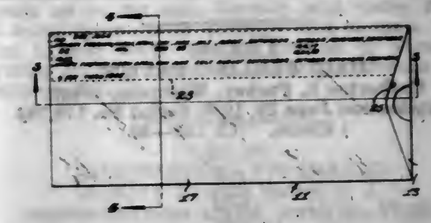
2,655,155
INFRARED RAY, INDIRECTLY HEATING HEAT BATH
Martin Achner, Munich, Germany
Application June 20, 1951, Serial No. 232,649
In Germany June 22, 1950
8 Claims. (Cl. 128—374)



1. A collapsible infra-red ray indirectly heating heat bath comprising a flexible wall, and a polished metal foil attached to the inside of said wall and capable of efficiently reflecting infra-red rays, the thickness of said metal foil being less than three hundredths of a millimeter.

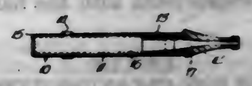
2,655,156
BANKER'S NOTE AND COLLATERAL INDEXING FILE
Boyce H. Caldwell, Decatur, Ga.
Application August 24, 1951, Serial No. 243,450
1 Claim. (Cl. 129—16.7)

A note and collateral file comprising a generally rectangular envelope of relatively heavy flexible material open at one end and having pleated edges, a rectangular sheet of transparent flexible material disposed over one face of said envelope and having an end thereof secured to the closed end of the envelope, the longitudinal margins of said sheet being folded over the longitudinal edges of the envelope and being secured to the longitudinal pleats, at least one of said longitudinal margins having a portion thereof free of said pleats adjacent one edge of said envelope, and an indicia bearing card slidably engaged between said one face of the envelope and the sheet of transparent material, said card being longitudinally folded and engaging over said one edge and being received between the longitudinal pleat



adjacent said one edge and the free portion of said one longitudinal margin, said card being longitudinally inscribed with the months of the year and being provided with spaces therebeneath, whereby the maturity dates of notes contained in the file may be designated.

2,655,157
CIGARETTE HOLDER
Louis M. Weintraub, Chicago, Ill.
Application February 1, 1950, Serial No. 141,721
3 Claims. (Cl. 131—183)



1. A cigarette holder comprising an elongated hollow body open at one end for the insertion of a cigarette and having a mouthpiece at the opposite end, a cigarette supporting carriage axially slidable in said body, the walls of said carriage fitting the walls of said hollow body in substantially airtight engagement, said carriage being substantially shorter than said body, and a locking ring for retaining said carriage at the open end of said body, said ring having a detent which normally projects through an opening in the wall of said body to obstruct sliding movement of the carriage.

2,655,158
SMOKING PIPE
Warren Williamson, Santa Rosa, Calif.
Application August 29, 1947, Serial No. 771,305
3 Claims. (Cl. 131—216)



1. In a smoking pipe of the character described, a pipe bowl, a mouthpiece member, a stem formed of a series of stem sections extended from the bottom portion of the bowl to said mouthpiece member, said series of stem sections between said bowl and said mouthpiece member being fixedly connected together and including longitudinal sections in generally parallel planes offset laterally with respect to one another and leading generally from the bowl toward the mouthpiece member, the first longitudinal section being connected to the pipe

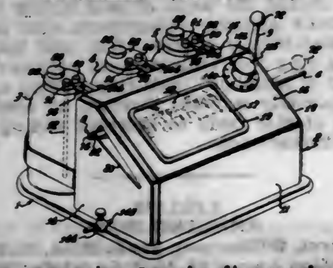
bowl and at least another longitudinal section being laterally offset with respect to said bowl, and at least one transverse connecting section between adjacent ends of the respective longitudinal sections being at such an angle that the axis of the connecting section intersects the spaced axes of the adjacent longitudinal sections.

2,655,159
HAIR CURLING DEVICE
Catherine L. Parkey, Wishram, Wash.
Application June 28, 1950, Serial No. 170,793
1 Claim. (Cl. 132—40)



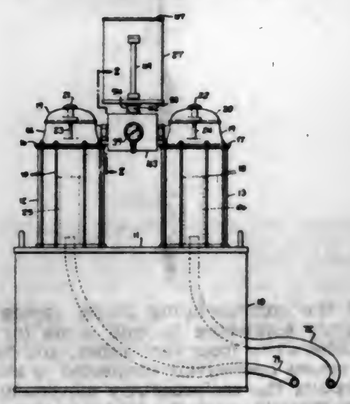
A hair curling device comprising in combination a pair of concavo-convex discs being smooth-surfaced on both of their sides, an outwardly extending hollow cylindrical tube secured to the center of one disc on the concave side thereof and having a smooth internal bore, an outwardly extending smooth-surfaced cylindrical projection secured to the center of the other of said discs on the concave side thereof and being of less length than the internal length of said tube for a forced fit into the tube whereby both discs may be locked to each other with their peripheral edges in gripping engagement with the hair.

2,655,160
APPARATUS FOR CLEANING HYPODERMIC NEEDLES
Philip M. Cassady and Richard R. Cassady, Los Angeles, Calif.
Application July 25, 1949, Serial No. 106,598
18 Claims. (Cl. 134—99)



17. In apparatus for simultaneously cleaning a plurality of tubular elements open at both ends constructed for unobstructed flow of fluid therethrough, means for passing cleaning fluid through one end of said elements, means at the other end thereof for receiving and confining said fluid, including; a plurality of relatively spaced fluid conducting elements provided with fluid-sealing seating means for contactive association with at least one end of each of said tubular elements to be cleaned, a carrier provided with means for holding said plurality of tubular elements, means for optionally positioning said carrier with the said ends of the tubular elements in and out of contactive association with said sealing means, means for imparting movement to said carrier to effect such optional positioning of the tubular elements, means for supplying cleaning fluid to said fluid passing means, and means for controlling the passage of said cleaning fluid from said fluid supplying means to and through said passing means and elements.

2,655,161
FLUID SEPARATING AND PRESERVING MEANS FOR APPARATUS FOR CLEANING VEHICLE RADIATORS OR THE LIKE
Henry M. Dunn and David Oles, New Haven, Conn., assignors to Cheldun Manufacturing Corporation, New Haven, Conn., a corporation of Connecticut
Application January 7, 1950, Serial No. 137,422
3 Claims. (Cl. 134—111)

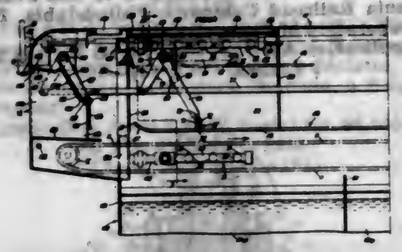


1. In an apparatus for cleaning a radiator and articles of like nature by forcing cleaning liquid therethrough in alternate directions, the combination with a pair of receptacles adapted to contain cleaning fluid and flexible tubes connected to said receptacles and adapted to be connected to the inlet and outlet respectively of a radiator; of a manually-operated valve having four substantially-radial valve-passages; means to connect a pair of substantially diametrically-opposite valve-passages of said valve to the said pair of receptacles respectively; a fitting connected to a third valve-passage of said valve, said fitting being arranged to be connected to a compressed-air source for delivering compressed air to said valve; a vented fluid-separating chamber; and a fitting arranged to connect said fluid-separating chamber to the fourth valve-passage of said valve to support said fluid-separating chamber at an elevation above said receptacles and to provide a passage from said vented fluid-separating chamber to each of said receptacles.

2,655,162
WASHING MACHINE WITH ENDLESS WORK CONVEYER
Erich R. Zademach, Hillside, and William W. Clarke, Summit, N. J., assignors to Metalwash Machinery Company, Irvington, N. J., a copartnership
Application July 17, 1945, Serial No. 605,589
7 Claims. (Cl. 134—125)

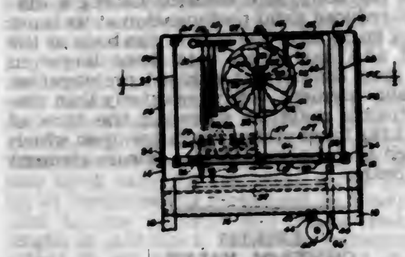
1. In combination, a conveyor having an upper run for supporting articles, means for projecting a fluid upwardly against said articles while in transit on said upper conveyor run, a grid member above said conveyor run and substantially parallel thereto for limiting upward displacement of said articles on said conveyor run resulting from the force of said fluid, a plurality of substantially parallel pivotally suspended lever arms of substantially equal length pivotally connected to said member for supporting said member, said lever arms being free to swing in an angular direction to permit said member to yield

with the transit articles in case said articles come in contact with said member while in transit on said conveyor run, said combination comprising abutment means supporting said lever arms



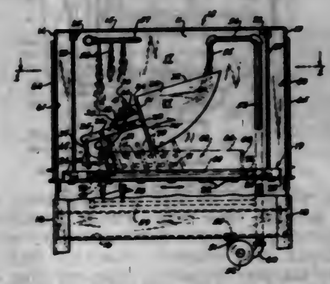
against angular movement in the opposite direction, and means for adjusting said abutment means to adjust the angular position of said lever arms and thereby adjust the elevational position of said member with respect to said conveyor.

2,655,163
DISHWASHING MACHINE AND ACTIVATING MEANS THEREFOR
Homer F. Lyman, Nutley, N. J.
Application September 8, 1948, Serial No. 48,249
12 Claims. (Cl. 134—141)



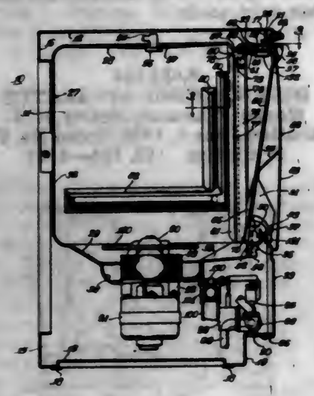
1. In dishwashing apparatus comprising a casing having a washing chamber wherein dishes within a dish container are washed, a table in said chamber mounted for reciprocal movement in a substantially horizontal plane and adapted to receive a container of dishes thereon so that said container moves therewith, means for reciprocating the table in said horizontal plane, said reciprocating means consisting solely of liquid driven driving means located in the chamber to rotate on an axis extending in a substantially horizontal plane at right angles to the horizontal plane of movement of the table, the driving means having a plurality of washing liquid receiving buckets operatively connected therewith and radially disposed with respect to said axis, the buckets being so positioned adjacent one another as to receive said washing liquid within the buckets during their passage in a downward direction through an arcuate portion of a revolution of said driving means and to discharge said liquid into the washing chamber during the passage of said buckets through another arcuate portion of said revolution, actuating means connected with said driving means and the table and arranged to impart said reciprocal movement thereto, washing liquid distributing pipes in said washing chamber arranged to discharge streams of liquid over the dishes in said container in a plane transverse to the plane of movement of said table, means for circulating liquid from said discharge pipes after passage of the liquid over said dishes, and conduit means cooperating with the circulating means and said liquid driven driving means to conduct liquid from the circulating means to the buckets of the liquid driven driving means at such position of the buckets in the first-mentioned arcuate portion of said revolution as to fill said buckets and cause them to move downwardly through said arcuate portion to said other arcuate portion by force of gravity thereby to rotate the driving means and reciprocate said table.

2,655,164
DISHWASHING APPARATUS
Homer F. Lyman, Nutley, N. J.
Application June 4, 1949, Serial No. 97,180
11 Claims. (Cl. 134—141)



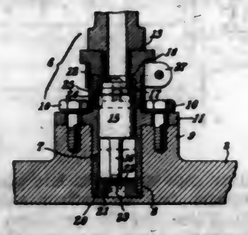
5. In dishwashing apparatus having a casing with a washing chamber therein wherein dishes disposed on a tray are washed by a washing fluid, said chamber having a washing fluid reservoir in the lower portion thereof, a table in said chamber mounted for reciprocal movement above said reservoir and adapted to receive said tray thereon so that the tray moves therewith, washing fluid distributing pipes arranged to discharge jets of fluid under pressure over the dishes on the tray, said tray and said distributing pipe being so positioned in relationship to the washing chamber that the jets of fluid after passing over the dishes on said tray flow into said reservoir, gravity operated actuating means for the table actuated by the weight of washing fluid, said actuating means comprising a liquid containing bucket in said casing and having an opening in the top thereof, bucket mounting means in the chamber, the mounting means and the bucket being so constructed and arranged that the bucket has reciprocal movement upwardly and downwardly in the chamber between an upper or filling position and a lower or emptying position wherein fluid in the bucket is emptied into the chamber, said bucket being disposed in the washing chamber above said reservoir and in a position to empty said fluid directly into the reservoir, force exerting means associated with the bucket so as to exert a force thereon toward said upper position, said force being such as to move the bucket to said upper position when the bucket is free of the weight of liquid therein and permit movement of the bucket to said emptying position by the weight of liquid therein, an actuating member so associated with the bucket as to be reciprocated by reciprocal movement of the bucket, an actuated member operatively associated with said table and the actuating member so that said reciprocal movement of the actuating member reciprocates the actuated member and the table, and means for conducting washing fluid from the reservoir to said bucket in its upper position.

2,655,165
WATER IMPERVIOUS CLOSURE FOR WASHING APPARATUS
Frank D. Low, La Grange Park, Ill., assignor to General Electric Company, a corporation of New York
Application October 29, 1949, Serial No. 124,360
3 Claims. (Cl. 134—183)



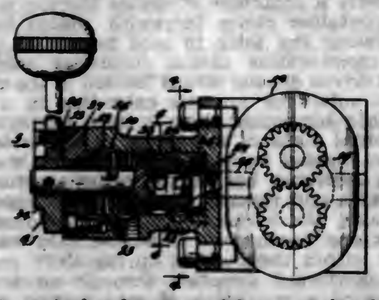
1. In washing apparatus including a vat adapted to contain washing liquid and provided with top and bottom walls and opposed side walls terminating in an upstanding forwardly directed doorway, said doorway having top and bottom flanges and opposed side flanges, said flanges terminating in an upstanding front opening, an upstanding inverted substantially U-shaped rib formed in said top and side walls at the junction thereof with said top and side flanges and inwardly disposed with respect to said top and side walls, said bottom flange being disposed below the ends of the legs of said rib and provided with an upwardly directed ledge extending between said side flanges and terminating adjacent to said front opening, a front door, and hinge mechanism mounting said front door within said doorway with the bottom of said front door in straddling relation with said ledge, said front door being movable between a substantially horizontal open position and a substantially vertical closed position with respect to said front opening, the inside of said front door carrying an inverted substantially U-shaped outwardly directed rim engaging said rib when said front door occupies its closed position in order to limit the admission of the washing liquid into said doorway; the combination comprising an inverted substantially U-shaped baffle carried by the inside of said front door adjacent to said rim, said baffle being spaced radially inwardly with respect to said rim and projecting rearwardly with respect thereto into the area defined by said rib in inward spaced relation therewith toward the interior of said vat when said front door occupies its closed position, said baffle cooperating with said rib when said front door occupies its closed position to define an inverted substantially U-shaped pocket therebetween, said pocket also being substantially U-shaped in cross section and causing a turbulency of the washing liquid therein in order further to limit the admission of the washing liquid into said doorway.

2,655,166
DETECTOR VALVE FOR HOT BEARING INDICATING SYSTEMS
Carleton K. Steins, Overbrook, and William M. Keller, Merion, Pa., assignors to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 29, 1950, Serial No. 158,978
3 Claims. (Cl. 137—72)



1. A detector valve, for use in pressure fluid actuated hot bearing signal operating systems, comprising a tubular body adapted to be recessed partway into the wall of the bearing and having means at its outer end for connection of a pressure fluid pipe main; a piston-like closure element normally engaged with an internal annular seat adjacent the outer end of the body and normally covering a lateral bleed port in the protruding portion of the body, said element having a diametrically-reduced axial prolongation at its inner end; a plug engaged in the bore of the body at the inner end and having an axial bore larger in diameter than that of the reduced prolongation of the closure element; and a relatively thin element of fusible material spanning the bore of the plug at the inner end of the latter upon which the reduced prolongation of the closure element normally bears.

2,655,167
CONTROL VALVE
Henry J. Dunkelow, Racine, Wis., assignor to Twin Disc Clutch Company, Racine, Wis., a corporation of Wisconsin
Application September 29, 1949, Serial No. 116,665
5 Claims. (Cl. 137—102)



1. A control valve comprising a casing having an inlet port, a delivery port and an overflow port, a pressure regulating, piston valve member in the casing having one end exposed to pressure in the inlet port and including a pair of passages in the member, the valve being shifted endwise by pressure in the inlet port to connect the inlet port with the overflow port through one passage and manually rotated to connect the inlet and delivery ports through the other passage, the inlet and delivery ports being connected only after the completion of the endwise and rotary shifts of the member,

and spring means biasing the member against the endwise shift until a predetermined pressure exists in the inlet port.

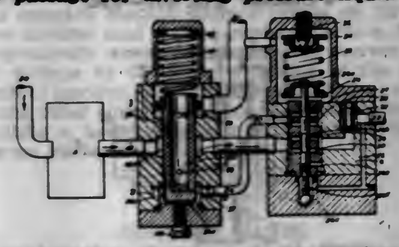
2,655,168
PULSATOR FOR MILKING MACHINES
Fernand Jean Joseph Julien Henrard, Remicourt, Belgium, assignor to Ecreuseuses Melotte, Societe Anonyme, Remicourt, Belgium, a Belgian company
Application April 8, 1949, Serial No. 86,284
In France May 5, 1948
14 Claims. (Cl. 137—103)



1. A pulsator of the flexible diaphragm type having an air outlet at one end adapted to connect to means for producing sub-atmospheric pressure and having at the other end an air inlet adapted to connect to means for utilization of said sub-atmospheric pressure, including a horizontally disposed block provided with laterally disposed flanges, a plurality of flexible diaphragms carried by said flanges, and a first cover of which the longitudinal edges make contact with the peripheries of said flanges so as to enclose a space between said block, said first cover and the portions of said flanges which extend beyond said block, a pulsation frequency determining and adjusting element located within said space and having manually controllable adjusting portions thereof, projecting exteriorly of said space, said block carrying two slide valves each capable of reciprocating movement in directions parallel to one another and transversely to the length of said block, under the influence of variations in air pressure, one of said slide valves acting as a control member whilst the other valve acts to connect said air inlet alternately to said outlet and to atmospheric pressure, said block being provided with channels for the passage therethrough of air in alternative directions, said flanges having therein depressions for the deflection therein of said flexible diaphragms and means for carrying said diaphragms, pusher members affixed to said diaphragms and each mounting therein a slide valve, said flanges being provided with openings for the reciprocatory movement therein of said pusher elements, and each flange carrying thereupon a respective side cover, each of said covers being provided with twin hollow chambers, respectively positioned opposite said flange depressions, whereby are formed four diaphragm chambers, with which the respective diaphragms cooperate.

2,655,169
AUTOMATIC UNLOADING VALVE FOR HYDRAULIC PUMPS
John Maurice Towler, Cumberland, and Frank Hathorn Towler, Otley, England, assignors to Electraulic Presses Limited, Rodley, England, a corporation of England
Application July 8, 1947, Serial No. 759,628
In Great Britain April 24, 1947
11 Claims. (Cl. 137—108)

1. An automatically operated unloading valve for a pump comprising, in combination, means defining a flow passage having a pressure inlet for connection to the pump and a pressure outlet adapted for communication to a hydraulic system, a hydraulically operated by-pass valve defining a first passage for by-passing to exhaust some of the pressure liquid flow at the full pressure in the flow passage in the loaded position, and a second passage for by-passing to exhaust all of the liquid flow at a pressure lower than that existing in the flow passage in the unloaded position, said by-pass valve also having pressure responsive means for substantially sequentially closing said first passage and opening said second passage on increasing rise in liquid pressure applied thereto, and a master control valve having valve means responsive to pressure in the flow passage for diverting pressure liquid from



the flow passage on a rise in pressure beyond a predetermined figure, and also having passage means for delivering the diverted pressure liquid to said first by-pass passage and applying the same to said by-pass pressure responsive means, said by-pass pressure responsive means being arranged to close said first by-pass passage and trap the pressure liquid applied to said by-pass pressure responsive means on a further rise in pressure attaining when the rate of by-pass through said first passage is insufficient to prevent the delivery of liquid to the outlet in excess of requirements, and said master valve pressure responsive means having ports associated therewith for communicating said trapped pressure liquid to exhaust upon a fall in the flow passage to permit said by-pass pressure responsive means to load the flow passage.

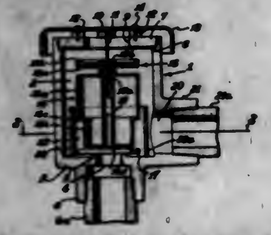
2,655,170
AIR VENT FOR WATER SYSTEMS
Warren T. Ferguson, Newton Highlands, Mass., assignor to Anderson Products, Inc., Cambridge, Mass., a corporation of Massachusetts
Application August 11, 1950, Serial No. 178,857
12 Claims. (Cl. 137—197)



1. An air venting valve comprising a valve body threaded for connection with a radiator, a central passage through said body, an expanded portion concentric with and forming part of said body, a cap closed at its outer end in threaded engagement with said expanded portion, a plug within said cap, a circular seat on said body and an opposed circular surface on said plug aligned with said central passage, a sealing ring positioned between said seat and surface and adapted to be engaged upon movement of said cap and plug toward said body to seal said central passage from the area exterior of said ring, a bore through said

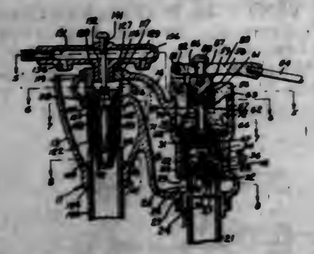
plug in series with said central passage, a first vent through said body leading to the atmosphere from the area exterior of said sealing ring, a second vent through the wall of said cap, and a hygroscopic element between one end of said plug and the inner surface of the end of said cap, said hygroscopic element when dry permitting the passage of air from said plug bore to said second vent and, when wet, blocking the flow of water from said plug bore to said second vent.

2,655,171
VACUUM BREAKER
Jacob J. Canter, Los Angeles, Calif.
Application August 29, 1947, Serial No. 771,172
4 Claims. (Cl. 137—218)



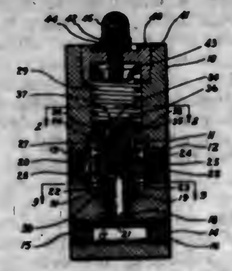
1. In a vacuum breaker, means forming a chamber having air and liquid inlets at its upper and lower end respectively, as well as an outlet adjacent said lower end, a closure for each of said inlets, the closure for said liquid inlet operating automatically to prevent reverse liquid flow, a float disposed in said chamber for vertical movement to operate the air inlet closure, and means restricting flow from said chamber through said outlet to cause operating movement of said float in response to a small flow of liquid through said liquid inlet.

2,655,172
ANTISIPHONIC AND SOUND-REDUCING VALVE
Jesse C. Owens, Los Angeles, Calif.
Application June 18, 1951, Serial No. 232,125
9 Claims. (Cl. 137—413)



1. In a valve assembly for a storage tank, a housing having an inlet port opening thereinto, an annular valve seat encircling said inlet port, means rigid with said housing defining a cylindrical chamber coaxially aligned with said inlet port, a plunger reciprocable within said chamber, a valve on the lower end of said plunger engageable with said valve seat when said plunger is at the end of its stroke nearest said inlet port, said housing having an outlet passage communicating with said inlet port when said valve is removed from said seat, a hydraulic cup carried by said plunger with its concave side facing away from said inlet port, said plunger, cup and valve having a passage therethrough maintaining communication between said inlet port and said chamber on the opposite side of said cup from said inlet port, a plug fitted into the outer end of said chamber and having a pressure relief passage therethrough, a relief valve comprising a stem extending loosely through said relief passage and a valve head on the end of said stem within said chamber, a valve seat carried by said plug encircling said relief passage in position to be engaged by said valve head to close said relief passage as said relief valve moves outwardly with respect to said chamber, and float-operated means for moving said relief valve into engagement with its associated seat.

2,655,173
PISTON ACTUATED SLEEVE TYPE RELIEF VALVE
John W. Overbeke, Cleveland Heights, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio
Application October 8, 1949, Serial No. 120,395
2 Claims. (Cl. 137—469)



1. A pressure relief valve comprising a casing having a valve chamber and a pressure chamber, an outlet port leading from the valve chamber and an inlet port leading to the pressure chamber, a guide member extending into said valve chamber and having a passage for connecting the pressure chamber to the valve chamber, a sealing surface on the guide member, a hollow sleeve valve slidably supported by said guide member and having a sealing surface cooperable with the sealing surface on the guide member for opening and closing said passage, means biasing the valve member toward closed position, said sleeve valve having a transverse wall beyond one end of said guide member, a pin slidably mounted within said guide member and having one of its ends engageable with said transverse wall, the other end of said pin being exposed to the pressure of fluid within said passage for urging the pin into engagement with said transverse wall whereby said sleeve valve is urged toward open position, and a duct in said sleeve valve for venting fluid leaking past said pin into said valve chamber.

2,655,174
PILOT CONTROLLED PRESSURE RELIEF VALVE
John Maurice Towler, Harrogate, and Frank Hathorn Towler, Otley, England, assignors to Electraulic Presses Limited, Rodley, England, a corporation of England
Application January 12, 1946, Serial No. 640,928
In Great Britain February 1, 1945
4 Claims. (Cl. 137—489)

4. An automatic fluid-pressure-operated piston valve comprising, in combination, a valve body having two coaxial bores of different diameter, an exhaust outlet and a pressure fluid inlet open to the smaller of said bores, a valve member slidably reciprocable in said body and having substantially equal pressure areas disposed to act in opposite directions, said valve member comprising a piston in the larger of said bores and a valve plunger in the smaller of said bores, means defining a restricted flow passage between opposite ends of the larger of said bores across said piston, means defining a flow passage connecting said inlet to the larger of said bores at the small side of said piston, the effective area of the free end of said plunger being exposed to the pressure in said inlet, spring means tending to bias said valve member in opposition to the pressure at said inlet so as normally to have said plunger close communication between said inlet and said outlet when the fluid pressures at opposite sides of said piston are substantially equal, normally-closed valve means operable in response to the attainment of a predetermined pressure at said inlet to open so as to relieve the pressure at the large side of said piston whereby to unbalance said valve member and cause said plunger in opposition to said spring means to open communication between said inlet and said outlet, said valve means closing upon a predetermined pressure drop at said inlet, and means for damping the closing of said valve means.

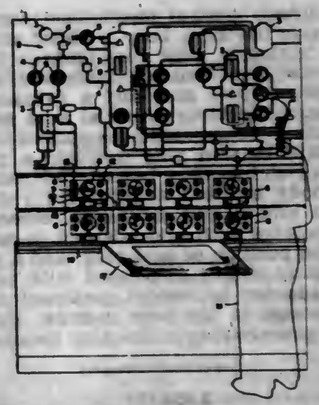


2,655,175
EXHAUST VALVE FOR GAS MASKS
Galen M. Glidden, Wheaton, Ill., assignor to Acme Protection Equipment Company, Chicago, Ill., a partnership
Application August 13, 1947, Serial No. 768,324
2 Claims. (Cl. 137—525)



1. An exhaust valve structure for controlling the exhaust outlet of a gas mask, comprising a tubular member providing an annular valve seat having a convex seating surface around the outer end of said tubular member, and a flexible, resilient diaphragm valve extending across the outer end of said tubular member in coacting relationship with said valve seat, said diaphragm valve having a supported central portion, an intermediate flexing portion, and a peripheral portion providing an annular concave seating surface facing said convex seating surface, the outer edge of said concave seating surface normally resting against the outer portion of said convex seating surface in sealing relation therewith and the remainder of said concave seating surface normally being spaced from said convex seating surface to permit said diaphragm valve to be displaced from said valve seat by a minimal rise in pressure above atmospheric pressure within said exhaust outlet, said concave seating surface normally having a greater degree of curvature than said convex seating surface and arranged so that upon a decrease in pressure below atmospheric pressure within said exhaust outlet said concave seating surface pivots on its outer edge against said convex seating surface and is progressively wrapped around said convex seating surface by the inward flexing of the intermediate portion of said diaphragm valve, whereby the outer edge of said concave seating surface exhibits a hooking action with respect to said convex valve seat.

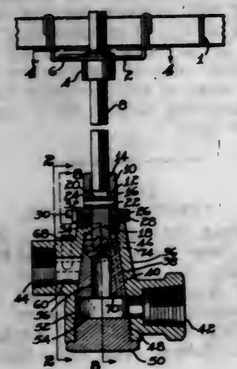
2,655,176
CONTROL PANEL
Henry Dreyfuss, Pasadena, Calif., William Winterbottom, New York, N. Y., and Karl L. Maier, Philadelphia, Pa., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application September 28, 1950, Serial No. 187,236
2 Claims. (Cl. 137—552)



1. Means for providing at one location for the convenience of the operator all the information and controls necessary for the operation of an industrial process, said means including: a frame assembly having a flat panel thereon and a space therein; a graphic representation on said panel of the process under control; indicators mounted on said panel at various points of the graphic representation, which points correspond to the points at which the controlled variable indicated by the indicator is located in the process under control; a plurality of rectangular casings mounted in the space in said frame assembly and forming housings for gauges measuring variables which enter into said process under control, the smallest of said casings having a height and width such that a number of said casings fit evenly into the height and width of said space, and others of said casings have heights and widths which are multiples of the heights and widths of the smallest casing; manually operable controls

located on said frame assembly beneath said graphic representation and convenient to the hand of the operator for varying, from said control location, the values of said controlled variables; a marker on that portion of said graphic representation where the representation of an apparatus element controlling a control variable is located; and a marker on the control for said apparatus element, said markers having similar indices indicating to the operator that they are related.

2,655,177
FLOOR FURNACE VALVE
Eppa H. Eyon, Pasadena, Calif.
Application May 13, 1946, Serial No. 669,341
7 Claims. (Cl. 137—556)



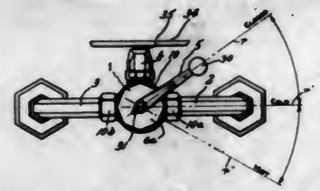
3. A furnace control mechanism comprising: a plug valve having a body member and a plug member having a pilot fuel passage including an off-center bore communicating with a peripheral groove in said plug and a furnace burner fuel passage including an axial bore communicating with a slot in said plug and an inlet passage formed in said plug member, a pilot fuel passageway and furnace burner fuel passageway in said body member adapted for registration with said groove and said slot, respectively, a stem associated with and adapted to selectively control the position of said plug, and a plurality of regulating means associated with said body member adapted to restrict communication between passages in the body member and corresponding passageways in the plug member.

2,655,178
VALVED WATER INLET NOZZLE FOR CONCRETE MIXERS OR THE LIKE
Louis J. Saroody, Pittsburgh, Pa., assignor, by mesne assignments, to Blaw-Knox Company, Pittsburgh, Pa., a corporation of Delaware
Application December 29, 1948, Serial No. 67,881
6 Claims. (Cl. 137—614.2)



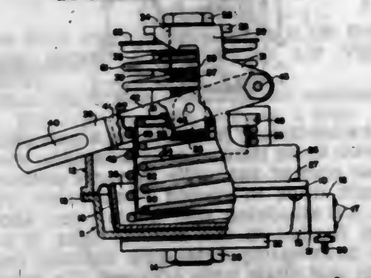
1. A water inlet nozzle for a concrete mixer or the like, comprising in combination, an inlet pipe having a discharge end, a flow-reversing cap positioned over said discharge end in spaced relation thereto, said cap having a discharge end adjacent the exterior of said pipe, a resilient valve in the passage between said pipe and said cap adjacent the discharge end of said pipe, said resilient valve being normally in closure position in said passage and adapted to automatically open upon discharge through said pipe, and a resilient tubular sleeve positioned around said cap adjacent its discharge end and extending beyond said discharge end, said resilient sleeve being adapted to tightly grip said discharge end and the adjacent exterior of said pipe, said resilient sleeve being further adapted to automatically open and discharge from the discharge end of said cap.

2,655,179
DOUBLE-ACTING LIQUID DISPENSING FIXTURE
Michael Smolensky, Cleveland, Ohio
Application July 26, 1947, Serial No. 763,830
3 Claims. (Cl. 137—630.17)



1. A valve discharge structure having an annular wall open at its opposite ends and provided with diametrically related inlet nipples adapted to be connected with separate liquid supply connections and an outlet nipple disposed between said inlet nipples and adapted to be connected with a spout, spaced transverse walls within said annular wall, those portions of said transverse walls remote from said outlet nipple being integral with said annular wall and closed thereby and those portions of said transverse walls adjacent to said outlet nipple being integral with said annular wall at opposite sides of said outlet nipple to form an opening leading to the latter, an annulus disposed axially of said annular wall and extending through said transverse walls and integral therewith, a valve having a valve stem rotatably mounted in said annulus, peripheral side walls intermediate those portions of said transverse walls first referred to, respectively, integral with and connecting said transverse walls together, said spaced transverse walls, said annulus and said peripheral side walls forming between them an annular mixing chamber, removable closure devices for the opposite open ends of said annular wall and forming therewithin between said devices and said transverse walls flow chambers at opposite sides of said mixing chamber, said peripheral wall adjacent one of said inlet nipples being extended laterally in one direction and integrally connected to the adjacent side portion of said inlet nipple to prevent liquid flow from the latter to the adjacent flow chamber and permit liquid flow from said inlet nipple to the remote flow chamber and said peripheral side wall adjacent to said other inlet nipple being extended laterally in the opposite direction and integrally connected to the adjacent side portion of said other inlet nipple to prevent liquid flow from the latter to said remote flow chamber and permit liquid flow from said other inlet nipple to said first mentioned flow chamber, said transverse walls outwardly of said annulus providing valve seats each formed with spacedly related ports, valve elements consisting of disks connected to said valve stem for rotation thereby, said valve elements having face-to-face relation with the outer sides of said valve seats, respectively, and each formed with ports adapted to register with the ports formed in the adjacent valve seat when said valve stem is rotated to predetermined positions.

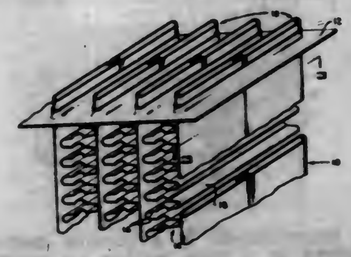
2,655,180
PNEUMATIC MOTOR FOR UNIT VENTILATORS
Robert P. Roetter, Gary, Ind., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 27, 1949, Serial No. 123,851
14 Claims. (Cl. 137—790)



1. A pneumatic motor comprising a lower rigid member, an upper rigid member, a flexible diaphragm clamped between said members and forming an expansible chamber with one of said rigid members, an operating lever attached to the other of said rigid members, means including a piston-like member operatively connecting said diaphragm to said lever, a preloaded spring means arranged to oppose movement of said diaphragm, said spring means including a pair of relatively movable members, a compression spring arranged between said relatively movable members for urging them apart axially, stop means for limiting their relative axial motion, means for adjustably attaching one of said relatively movable members to said other rigid member so that the other of said relatively movable members is normally spaced above the lowermost position of the piston-like member but may be caused to move by a predetermined movement of said diaphragm, another spring means arranged between the other of said relatively movable members and said piston-like member serving to bias said piston-like member toward its lowermost position, and an additional spring means arranged to be engaged by said other relatively movable member after a predetermined movement of said member, said additional spring means being attached to said other rigid member.

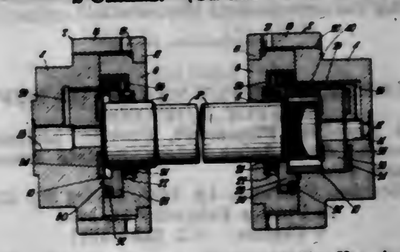
2,655,181
TUBE CONSTRUCTION
James H. Cooper, Grosse Pointe Park, Mich., assignor to McCord Corporation, Detroit, Mich., a corporation of Maine
Application September 14, 1949, Serial No. 115,607
4 Claims. (Cl. 138—87)

1. A tube useful for heat exchange purposes comprising an elongated piece of thin flexible metal formed lengthwise thereof to provide two substantially flat offset side portions connected by a central transversely extending portion with a shoulder between said central portion and each of said offset portions, each of said offset side portions having the outer part thereof turned back upon itself generally in alignment with that part of the other offset portion adjacent said central portion to form other side portions, the ends of said turned back parts being bent inwardly back upon themselves to form portions parallel to and seated against said central portion and extending into said corners, and means integrally uniting said parallel portions of said bent back ends to said central portion so as to form a pressure tight tube, said central portion



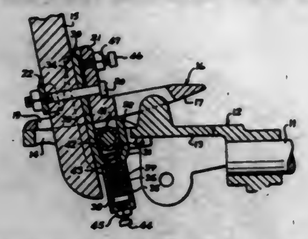
and bent back portions integrally united therewith extending transversely of said tube lengthwise thereof from one side to the other thereof and forming a multi-ply stiffening element which extends between and supports the sides of said tube intermediate the ends thereof.

2,655,182
PIPE TESTING HEAD ASSEMBLY
Loren A. Hayes and Walter C. Swancott, Elyria City, Ohio, assignors to United States Steel Corporation, a corporation of New Jersey
Application February 23, 1950, Serial No. 145,632
2 Claims. (Cl. 138—90)



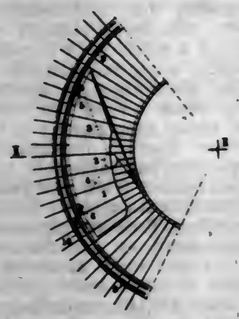
1. In apparatus for hydrostatically testing tubular objects, the improvement comprising a test head having a main body portion, said body portion including an outer annular hub and an inner centering plate abutting against said hub, said centering plate having an opening therethrough, said outer hub having a tube-end receiving chamber therein communicating with said center opening, said chamber having a fluid inlet in the wall remote from said centering plate, said inlet communicating with the chamber by means of a pressure fluid supply passageway extending therebetween, an annular clamping collar having a flanged edge mounted around the outer periphery of said body portion with its flanged edge abutting the outer face of said centering plate and its other edge in threaded engagement with the periphery of the outer hub, an elastomer sealing ring fitted in said centering plate surrounding the center opening therein, a pressure fluid duct extending between said ring and said pressure fluid supply passageway, said ring being adapted to surround the end of a tube length and to be compressed radially by means of pressure fluid flowing through said duct, a retaining ring mounted within said centering plate adjacent said sealing ring to hold the same in position, and an elastomer sealing ring fitted between said retaining ring and said outer hub portion.

2,655,183
PARALLEL TONGUE AND PICKER STICK CHECK FOR LOOMS
John C. Crocker, Ware Shoals, S. C.
Application September 16, 1952, Serial No. 309,879
5 Claims. (Cl. 139—150)



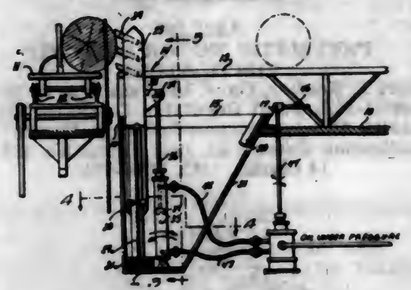
2. An improvement in a parallel motion for picker sticks in a loom having an oscillatable parallel provided with an elongated longitudinally extending slot through which the picker stick extends and having an oscillatable shoe mounted on the parallel and having an elongated slot through which the picker stick passes and means for securing the picker stick to the shoe, the improvement comprising a bolt spanning the slot in the parallel, a J-shaped member disposed in said slots and having its longer leg secured to the picker stick and shoe and having the lower portion of the longer leg and the shorter leg disposed on opposed sides of said bolt in the parallel, and spring pressed means in the lower portion of the J-shaped member engaging the lower surface of said bolt for urging the shoe against the parallel.

2,655,184
CURRENT-SUPPLY MEANS FOR WEFT STOP MOTIONS
Paul Depoilly, Flixecourt, France, assignor to Société dite: Saint Frères, Société Anonyme, Paris, France
Application February 19, 1952, Serial No. 272,460
In France February 21, 1951
4 Claims. (Cl. 139—371)



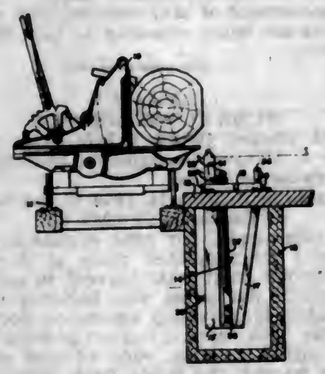
1. In a circular loom including a shuttle, a reed slidably engaged by said shuttle and an electric weft stop motion carried by said shuttle, a number of the reed dents being connected to the one pole of the weft stop motion electric source and another number of said reed dents being connected to the opposite pole of said source, a pair of resilient brushes partaking of the rotation of the shuttle, connected each to one of the terminals of the weft stop motion and arranged to remain in frictional engagement respectively with the dents connected to the one and the other poles of the electric source.

2,655,185
SINGLE CYLINDER FLUID-ACTUATED LOG TURNER
Dew C. Richardson, Metropolis, Ill.
Application March 10, 1950, Serial No. 148,794
3 Claims. (Cl. 142—101)



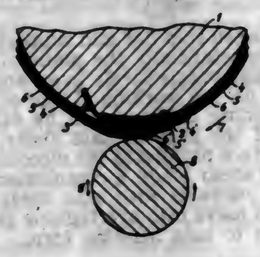
1. In a log turner for sawmills, a pair of spaced horizontal angle irons, means secured to the front and rear ends of the angle irons for maintaining the angle irons in spaced relationship, further means for attaching said angle irons above an opening formed in the sawmill floor, a pair of spaced downwardly extending channel bars secured to said angle irons adjacent the front ends of the angle irons extending downwardly through the floor opening, a plate attached to the lower ends of the channel bars, said plate being of lesser length than the angle irons, a brace secured at one end to the rear of the angle irons and extending downwardly through the opening in the floor, means securing the opposite end of the brace to the plate, a track on said spaced channel bars, a nigger bar slidably and oscillatably mounted on said track, a cylinder pivotally connected to said plate and disposed in spaced relation to the nigger bar, a pivotal connection between the cylinder piston rod and the nigger bar intermediate the ends of the nigger bar, valve means to admit fluid into the cylinder, and a control lever operatively connected with said valve to operate said valve.

2,655,186
POWER-OPERATED LOG TURNER WITH FULCRUM STOP
Dew C. Richardson, Metropolis, Ill.
Application April 12, 1951, Serial No. 220,619
5 Claims. (Cl. 142—101)



1. A power operated log turner for sawmills comprising a frame fixedly secured to the sawmill floor and extending downwardly from the floor, a nigger bar having pivoted teeth slidably and oscillatably mounted to the frame, a power cylinder pivotally connected to the frame in spaced relation to the bar, a pivotal connection between the piston rod of the cylinder and the nigger bar in proximity to the upper end of the nigger bar, valve means to control the flow of fluid into and out of the cylinder, a control lever for actuating the valve means, and a stop element carried by the nigger bar extending in the direction of the said teeth for limiting the upward movement of the nigger bar respecting the frame, and also functioning as a changeable fulcrum for the bar.

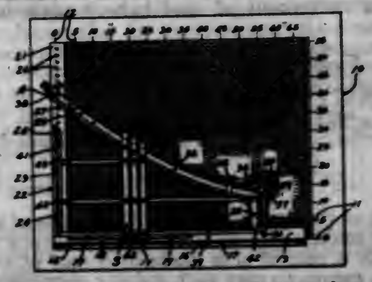
2,655,187
MEANS FOR PRODUCING TUBULAR BODIES FROM WOOD BY COILING UP VENEER SHEETS
Halfdan Nilsen Moe, Oslo, Norway, assignor to I/S Interply, Oslo, Norway, a firm
Application March 15, 1950, Serial No. 149,894
In Norway March 29, 1949
2 Claims. (Cl. 144—309)



1. A machine for producing tubular wooden bodies from coiled veneer sheets comprising, in combination, an interiorly-heated driven mandrel, a pressure roller having an axis parallel to the axis of the mandrel and being movable radially toward and away from the surface of the mandrel, and means for radially moving the roller and releasably pressing the surface of the pressure roller against the surface of the mandrel, said mandrel being formed from a plurality of longitudinal complementary cylinder segments adapted to be displaced radially relative to the axis of the mandrel for increasing and decreasing the circumference of the mandrel, said cylinder segments being circumferentially adjacent, each of said cylinder segments extending axially of the mandrel for its entire length and being independent of the adjacent cylinder segment one of said cylinder segments being formed from an insulating material and being provided with a longitudinal slot for receiving the end of one of the veneer sheets, and a longitudinal electrode embedded in said insulating cylinder segment adjacent said slot.

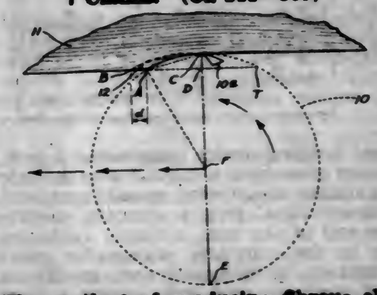
2,655,188
ADJUSTABLE LAYOUT AND CONSTRUCTION JIG FOR AWNING ENDS AND THE LIKE
Walter L. Catching, Jr., Birmingham, Ala.
Application May 8, 1950, Serial No. 160,784
4 Claims. (Cl. 144—288)

1. In an adjustable layout and construction jig for awning ends of the type embodying upper, lower and wall frame members, a generally plane work surface, a grid on said work surface defined by sets of horizontal and vertical lines lying at substantially 90° to each other, an upstanding jig member secured to the work surface and outlining the wall side of the end to be built, a second upstanding jig member secured to the work surface at substantialy right angles to the first jig member and outlining the lower frame side of the end to be built, an upper frame jig member, means pivotally connecting the upper frame jig member to the work surface at a point substantially in alignment with the inner edge



of the first named upstanding jig member, means removably securing the upper frame member of the end alongside the upper frame jig member, and a connector to which the lower end of the upper frame jig member is removably secured, the lower end of said connector abutting the inner side of the second named upstanding member, thereby determining the height of a valance for the awning ends.

2,655,189
PRODUCTION OF FIBROUS ELEMENTS FROM WOODY MATERIAL
James d'A. Clark, Longview, Wash.
Application February 28, 1949, Serial No. 78,692
7 Claims. (Cl. 144—309)

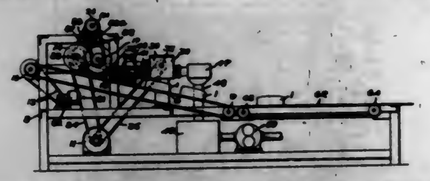


1. The method of producing fibrous elements tapered at both ends and cut substantially parallel to the grain of the wood which comprises traversing pieces of wood and a rotary cutter relative to each other at a traversing speed of at least one-fifth of the peripheral speed of the cutter, the direction of the traversal being substantially uniformly against the direction of cutter rotation.

2,655,190
METHOD OF AND APPARATUS FOR FORMING AN OPEN FILLING-RECEIVING GROOVE IN FRANKFURTER ROLLS AND OTHER BAKERY PRODUCTS
Charles O. M. Mason, Hingham, and Henry J. Perry, Atlantic, Mass.
Application July 1, 1950, Serial No. 171,578
11 Claims. (Cl. 146—78)

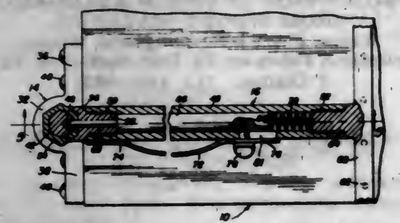
11. Apparatus for forming a filling-receiving groove in bakery material such as bread, rolls, cake, etc., comprising feeding means to feed such bakery material forward, a plurality of pairs of rotary slitting knives situated above the feeding means, means to rotate said knives rapidly with

a surface speed considerably in excess of the speed at which the bakery material is fed forward, thereby to make pairs of slits in said material extending in the direction in which such material is fed, an elongated movable cutting element for each pair of slitting knives, each cutting element extending in the general direction of the feeding movement of said bakery material and



having at its forward end a cutting edge of an extent to make a cut extending from one slit to the other of a pair of slits made by a pair of slitting knives, means to give each cutting element a cutting movement, and means mounting said cutting elements so that each cutting element makes a cut in the bakery material connecting the bottom of a pair of slits therein.

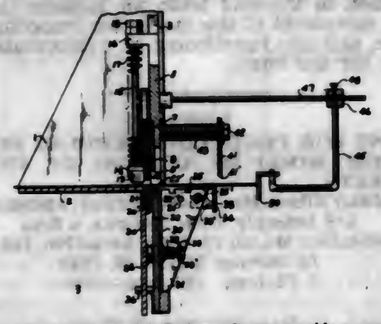
2,655,191
MEAT HOLDING DEVICE
Allen G. Partin, Pontiac, Mich.
Application July 27, 1950, Serial No. 176,229
1 Claim. (Cl. 146—218)



A meat holding device comprising a post having a series of sockets, a tubular arm mounted for vertical sliding adjustment on said post and having a longitudinal slot, a gripping member on the free end of the arm, a spring projected bolt slidable in the arm and engageable selectively in the sockets for releasably securing the arm in adjusted position, said bolt having a threaded recess therein, a bowed spring mounted longitudinally on the arm and having one end portion fixed thereto at a point adjacent the post, said spring including a flattened, apertured outer end portion slidably engaged with the slotted portion of the arm, and a thumb screw on said flattened end portion of the spring operable in the slot and threadedly engaged in the recess and operatively connecting the spring to the bolt for retracting said bolt when said spring is flattened against the arm.

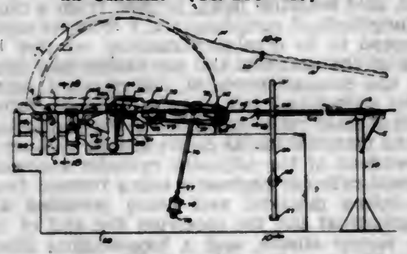
2,655,192
BENDING AND SHEARING MACHINE
Ralph La Lone, Detroit, Mich.
Application June 16, 1951, Serial No. 232,029
8 Claims. (Cl. 153—25)

1. A bending and shearing machine comprising a frame structure including a work guiding surface, a blade along one edge of said surface, a shear blade slidably movable in said structure toward the plane of said surface, and having a cutting edge cooperating with and longitudinally inclined relatively to the cutting edge of the first blade, said shear blade presenting a flat surface extending transversely and perpendicularly from its cutting edge, a pressure plate yieldingly supported on said structure and having a floating mounting thereon in two directions in a plane perpendicular to said guiding surface, said pressure plate having a supporting surface initially substantially co-planar with said guiding surface and lying in the path of said flat surface, whereby a work piece on said guiding surface becomes



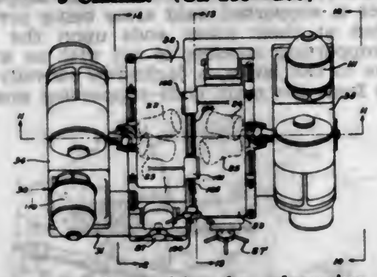
clamped between said flat and supporting surface initially in substantially the plane of said guiding surface and progressively in an angularly disposed plane on the working stroke of said shear blade, a bending form carried by said pressure plate, out of the path of said shear blade, and having a surface parallel to the direction of movement of said shear blade, a complementary bending member movable with said shear blade and positioned to move into overlapping parallel surface relation to said bending form.

2,655,193
APPARATUS FOR BENDING TUBING INTO SERPENTINE FORM
Arthur W. Payne, Detroit, Mich., assignor to Bundy Tubing Company, Detroit, Mich., a corporation of Michigan
Application April 23, 1951, Serial No. 222,212
22 Claims. (Cl. 153—40)



1. An apparatus for bending a work piece of elongated form, such as tube, into a coil of serpentine form having a succession of reverse bends comprising, a supporting frame, a first arbor mounted on the frame, an arm pivotally mounted on the frame with its pivot adjacent said arbor, a second arbor on the arm removed from the pivot thereof, a bending pad pivotally mounted adjacent the first arbor, a bending pad pivotally mounted adjacent the second arbor, the arbors and pads adapted to have a substantially straight work piece positioned between the respective arbors and pads with the work piece extending transversely of the axes of the arbors, means for swinging the arm on its pivot, and means for causing the bending pads to move about their respective arbors as the arm swings to thereby bend the work piece about both arbors.

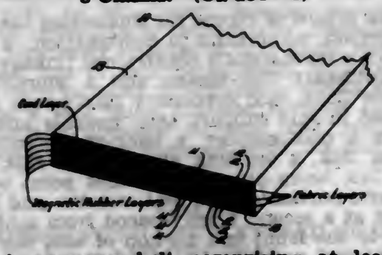
2,655,194
APPARATUS FOR PROCESSING ROUND BARS AND TUBES
Einar W. Nilsson, Youngstown, Ohio
Application October 31, 1946, Serial No. 706,845
9 Claims. (Cl. 153—103)



1. A cross roll machine for advancing, rotating and processing round stock, comprising spaced sets of rotatable rolls for engaging longitudinally spaced portions of said stock, a support for each set of rolls, the axes of said rolls being angularly disposed relative to one another and to the stock, said rolls being positioned on substantially diametrically opposed sides of the stock to form a pass for rotating and advancing the latter, the axes of one set of rolls being in skewed relation with respect to parallel planes including the axes of an adjacent set of rolls, whereby the longitudinally spaced portions of the stock engaged by said roll sets are circumferentially offset, and means for adjusting said roll supports relative to each other in a direction transverse to the movement of said stock to effect bending of the stock between the roll sets.

4. A roll for forming a pass for round stock, said roll having a central concave contour shaped to contact a substantial longitudinal section of stock for rotating and advancing the stock and having an end contour over which the stock is adapted to be flexed, said end contour comprising a portion of another concave contour, the radius of curvature of such portion at any point thereon being larger than the radius of curvature of said central contour, said central and end contours being joined by a section defined by tangents common thereto.

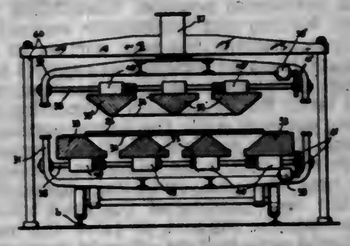
2,655,195
CONVEYER BELT AND METHOD OF MAKING SAME
Chalmer C. Curtis, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application October 21, 1950, Serial No. 191,466
8 Claims. (Cl. 154—4)



2. A conveyor belt comprising at least one textile fabric reinforcing member and a flexible resilient elastomeric member impregnated into and disposed over each face of each said reinforcing member, said elastomeric member comprising a vulcanized rubbery conjugated diene polymer and from 65 to 100 parts by weight of finely-divided magnetite for every 100 parts by weight of polymer, said magnetite being uniformly dispersed in said polymer and having a particle diameter from .01 to 20 microns.

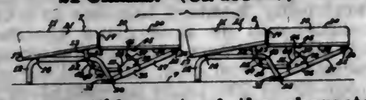
6. The method of making a laminated structure which comprises adhering several filamentary reinforcing members together in a face-to-face relationship by interposing therebetween a vulcanizable rubbery composition comprising a vulcanizable rubbery conjugated diene polymer and from 65 to 300 parts by weight of finely-divided magnetic for every 100 parts by weight of said polymer and vulcanizing the assembly to form an integral unit.

2,655,196
METHOD AND MACHINE FOR MANUFACTURING CORRUGATED FIBROCEMENT SLABS
Alessandro Magnani, Broni, Italy
Application June 1, 1951, Serial No. 229,414
In Italy September 29, 1950
12 Claims. (Cl. 154—30)



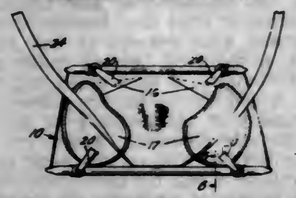
7. Apparatus for manufacturing corrugated slabs from freshly molded flat slabs comprising in combination a machine for manufacturing flat slabs a press having a movable equipment, a mold carried by said movable equipment and composed of longitudinal elements matching in profile one corrugation, a carriage carrying a second mold composed of longitudinal elements equalling in profile one corrugation, means for displacing the elements of said molds laterally of one another so that they become symmetrically equidistant with respect to the longitudinal mold axis, a band of flexible material secured to the end elements of each mold and of a length such that, when the molds are widest apart, the band is tensioned tangentially of the crests of the intermediate elements, means for feeding a freshly molded flat slab on the band of the mold on the carriage, a rail for conveying the carriage from said conveyor underneath the press in a position such that the mold elements on the carriage are staggered to the elements of the mold carried by said movable equipment, means for lowering the mold carried by said movable equipment on the carriage mold and means synchronised with the control means for said movable equipment for drawing the elements of each mold close to one another in such manner that, when the molds reach their closed position, the closed elements of one mold engage the closed elements of the other mold for corrugating the freshly molded slab, a crane between the machine for manufacturing flat slabs and said press, a suction hoist carried by the crane carriage for lifting the corrugated slab from the mold carriage, a second rail arranged parallel with the first-mentioned rail, a carriage movable on said second rail and adapted to receive the corrugated slab conveyed by the suction hoist to transport it to seasoning.

2,655,197
CONVERTIBLE SEAT
Earl L. Schofield, Rockford, Ill., assignor, by mesne assignments, to Superior Coach Corporation, Lima, Ohio, a corporation of Ohio
Application June 1, 1948, Serial No. 30,286
21 Claims. (Cl. 155—7)



15. A convertible seat of the character described comprising, in combination, a seat bottom and a seat back hingedly connected together at adjoining edges for pivotal movement relative to one another to and from substantially coplanar relationship, a base extending in a fore and aft direction under the seat bottom, means on the front portion of said base pivotally supporting the seat bottom adjacent its front end on a horizontal axis substantially parallel with the axis of said hinge connection, an oscillatable support pivoted to the back portion of said base on a horizontal axis and adjustably connected to said seat back to support the seat back in an upright or horizontal position, interfitting parts on said seat bottom and oscillatable support for detachably connecting the rear portion of the seat bottom and the said oscillatable support when the seat back is raised to upright position, a spring pressed latch for detachably connecting said oscillatable support with the lower portion of the seat back in the upright position thereof, manually operable means for releasing said latch, and means providing an operating connection between the rear portion of the seat bottom and said oscillatable support to raise the rear portion of said seat bottom off said base and support it and the attached seat back in a substantially horizontal plane when the seat is unfolded.

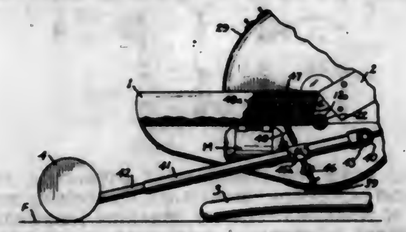
2,655,198
BABY EXERCISER
Walter P. Williams and Mildred D. Williams, Minneapolis, Minn.
Application September 12, 1949, Serial No. 115,154
3 Claims. (Cl. 155—20)



1. A child's exerciser having in combination a body, said body comprising a seat portion shaped to conform to the body of a user and having a pair of leg openings in the lower portion thereof, a back portion connected to the rear portion of said seat and extending upwardly therefrom, a front portion connected to the front of said seat and the upper portion thereof having only flexible connection with the upper portion of said back portion, a pair of relatively stiff reinforcement and supporting members respectively mounted in substantially fixed relation across the upper portions of only the front and back portions and adapted to be connected to suitable supporting means.

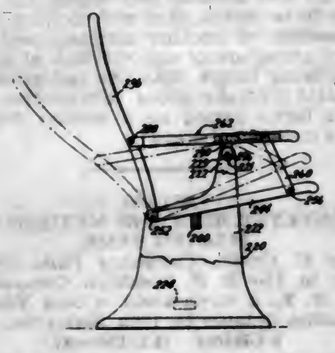
2,655,199
LOUNGE CHAIR
Frank J. Luketa, Seattle, Wash.
Application February 7, 1950, Serial No. 142,825
6 Claims. (Cl. 155—105)

1. A lounge chair comprising a floor-engaging frame, a main body-supporting member pivotally supported thereon for tilting, means so to tilt the same, an auxiliary body-supporting member disposed outwardly of the swinging edge of the main body-supporting member, arms on the outer ends whereof said auxiliary body-supporting member is supported, said arms being pivotally mounted at their inner ends upon the main body-supporting member to tilt with as well as relative to the latter, a jackscrew swivelly supported from the main body-supporting member,



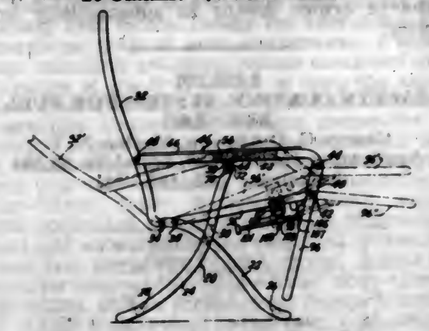
a nut non-rotatively engaged by the main body-supporting member, and threaded upon said jackscrew, a notched element and a headed element, one on the nut and the other on said arms outwardly of their pivot support, and interengageable by downward swinging of the auxiliary body-supporting member and its arms relative to the nut, and disengageable by upward swinging thereof, and means to rotate said jackscrew to raise and lower said arms when parts are so engaged.

2,655,200
RECLINING ARTICLE OF FURNITURE
Anton Lorenz, Buffalo, N. Y.
Application October 16, 1946, Serial No. 703,559
12 Claims. (Cl. 155—105)



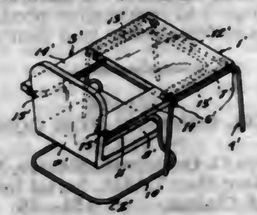
1. An article of repose for supporting the body of a person, comprising in combination: a rigid support, a permanently constrained linkage having stationary link-means and a plurality of movable links, said stationary link-means being included in said support, said movable links including a seat-member, a back-rest-member, a guiding link, a top link and a front link, said front link being pivoted at a first point to the front end portion of said seat-member and being pivoted at a second point, spaced from said first point, to the front end portion of said top link, the rear end portion of said top link being pivoted to said back-rest-member, means pivotally connecting at least one of said back-rest- and seat-members with said support, one end portion of said guiding link pivoted to said support, and an elongated slidable connection between the other end portion of said guiding link and said top link.

2,655,201
RECLINING ARTICLE OF FURNITURE
Anton Lorenz, Buffalo, N. Y.
Application October 26, 1946, Serial No. 705,992
16 Claims. (Cl. 155—110)



1. A reclining article of furniture, comprising: a support, a back-rest pivoted to said support, a seat, the rear portion of said seat being pivoted to said support at a point spaced from the pivotal connection between said back-rest and said support, a front link, a top link arranged above the plane of said seat, the lower portion of said front link being pivoted to the front portion of said seat, the upper portion of said front link being pivoted to said top link, the rear portion of said top link being pivoted to an intermediate point of said back-rest, and a guiding link, one end of said guiding link being pivoted to said support at a point spaced from the pivotal connection between the back-rest and the support, and the other end of said guiding link being shiftably engaged with said top link.

2,655,202
BABY TENDER
Louis Gottfried, New York, N. Y.
Application October 10, 1951, Serial No. 250,689
16 Claims. (Cl. 155—124)



1. In an article of manufacture for use by children, the combination of a table having two substantially horizontally disposed guide members with an attachment member including a pair of substantially horizontally disposed portions removably received in said guide members, at least one of said horizontally disposed portions carrying table top extension means, a chair having a seat being disposed between the said horizontally disposed portions, and means for retaining the said chair adjacent the said table.

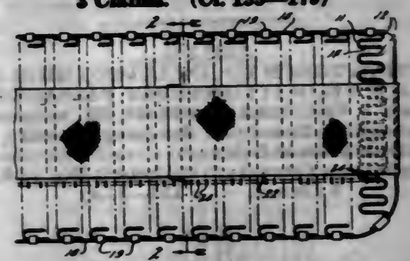
2,655,203
COMBINATION UPHOLSTERED CHAIR AND OTTOMAN
Robert A. Wegner, San Diego, Calif.
Application December 4, 1950, Serial No. 199,103
7 Claims. (Cl. 155—152)

1. In a combination upholstered chair and ottoman, a base cushion having a front side elevation substantially greater than the rear side elevation thereof, and a second cushion having a substantially greater rear elevation than its front elevation, said second cushion pivotally connected to said first cushion at the rear of said cushions, whereby the pivotal connection of said cushions



is relatively close to the bottom of said base cushion, the extensive rear elevation of said second-mentioned cushion providing an engaging support adapted to contact the floor on which said base cushion rests when said second cushion is pivoted upwardly from said base cushion into a position near the vertical.

2,655,204
SPRING CUSHION HAVING THE LOAD SUPPORTING PORTION REINFORCED BY FABRIC
Byron C. Gould, Detroit, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Application April 25, 1949, Serial No. 89,476
3 Claims. (Cl. 155—179)

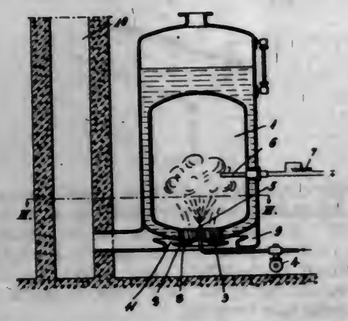


1. In a spring unit for a cushion, a plurality of zigzag spring strips forming a seating area, a border wire extending around said seating area, means for securing the border wire to the seating area at the front and back thereof, a top and bottom layer of fabric material extending across the transverse dimension of said seating area inwardly a substantial distance from the front and rear edges thereof at the central main load-supporting portion of the area leaving a substantial portion of the front and rear ends of the strips unconfined, adhesive material securing said layers of fabric material to each other in unit relation at all points between the convolutions of the spring strips and the areas between the strips, and means for securing the ends of said fabric material to the border wire at the sides of the seating portion of the cushion.

2,655,205
REGENERATIVE HEATING APPARATUS
Erik Tervald Linderoth, Stockholm, Sweden
Application January 17, 1950, Serial No. 139,016
In Sweden January 29, 1949
9 Claims. (Cl. 158—4.5)

1. Heating apparatus of the class described, comprising: a combustion chamber having an

aperture therein, said combustion chamber being otherwise closed, said combustion chamber comprising thermally conductive walls through which heat may be transferred for utilization; gas permeable heat exchanging means disposed in said aperture for alternate passage therethrough of combustion air and burnt gases; intermittently operating means for injecting fuel into said chamber for periodically producing a combustible mixture therein; means for igniting said com-



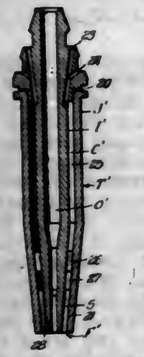
bustible mixture; a flue for carrying away the burnt gases; and means for directing burnt gases from said heat exchanging means into said flue, whereby heat will be transferred from said burnt gases to said heat exchanging means during passage of said burnt gases therethrough, and from said heat exchanging means to air entering said combustion chamber as the burnt gases remaining in the combustion chamber contract by transfer of heat to said thermally conductive walls.

2,655,206

CUTTING TORCH TIP, INCLUDING HIGH AND LOW VELOCITY PREHEAT PASSAGES

Francis J. Eichelman, Brookfield, Ill., assignor to National Cylinder Gas Company, Chicago, Ill., a corporation of Delaware

Application February 7, 1949, Serial No. 75,017
9 Claims. (Cl. 158—27.4)



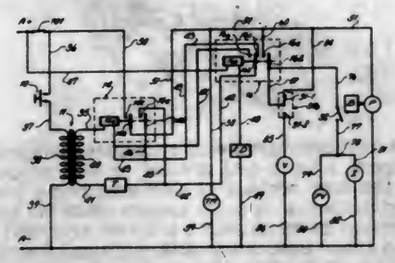
1. Torch tip for cutting and similar thermochemical metal-removing operations initiated by heating flames produced by burning a combustible gas mixture, comprising a tip body having a flush profile, a central discharge orifice means for oxidizing gas and at least two discharge orifice means for said combustible gas mixture in the profile end of said tip body, passage means for delivering oxidizing gas to its discharge orifice means, a single mixing means for producing a combustible gas mixture, additional separate passages for oxidizing gas and fuel gas communicating with said mixing means and passage means for delivering said combustible gas mixture to at least one of its discharge orifice means at high velocity and to at least one other of its discharge orifice means at substantially lower velocity.

2,655,207

SAFETY CONTROL SYSTEM FOR FUEL BURNERS

George G. Outterson, Mexico, N. Y.

Application May 5, 1949, Serial No. 91,500
9 Claims. (Cl. 158—28)



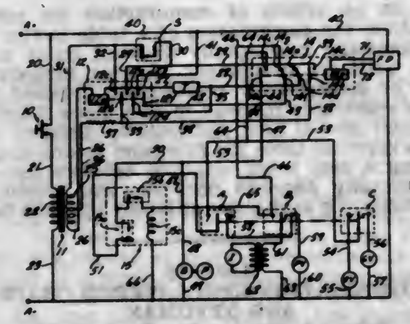
1. A programming device for fuel burners comprising, in combination, a source of power, a first circuit connected across said source of power including a first switching means, a second switching means and an electrically operable fuel burning ignition means, said first and second switching means being closed during ignition, a second circuit shunting said second switching means and said ignition means and including a third switching means and a fuel supplying means, said third switching means being open when said first switching means is closed, means for operating said first, second and third switching means in timed relation to energize said ignition means and said fuel supplying means, a third circuit shunting said first switching means, said third circuit including a fourth switching means, said fourth switching means being normally open, and means responsive to combustion produced by said ignition means for closing said fourth switching means.

2,655,208

ELECTRICAL CONTROL FOR COMBUSTION SYSTEMS

George G. Outterson, Mexico, N. Y.

Application May 7, 1949, Serial No. 91,986
8 Claims. (Cl. 158—28)



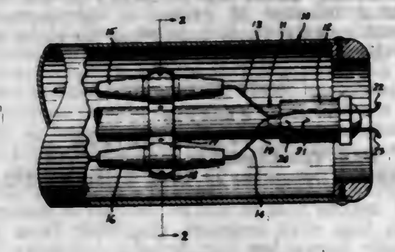
1. In a combustion system, having electrically controlled air supplying means and fuel supplying means adapted for cooperative action to effect combustion, a control system for timing the initiation and controlling the operation of said components, and a source of electrical energy, said control system comprising electrical connections therethrough to said air supplying means and fuel supplying means from said source and including first switch means for energizing and deenergizing both of said components, a safety switch including actuating means energized during closure of the first switch to open the safety switch after the time period normally sufficient to establish combustion, means responsive to actuation of said safety switch for actuating said first switch means to render the air supplying means and fuel supplying means inoperative, a motor-driven timer including second switch means connected in series with said first switch means and connected in the electrical connection to said fuel supplying means, circuit means for energizing said motor-driven timer upon closure of said first switch means, and means whereby said timer is adapted to actuate said second switch means after a given time interval to render said fuel supplying means inoperative through the circuit including the second switch means.

2,655,209

OIL BURNER

David L. Newton, Niagara Falls, Ontario, Canada

Application April 7, 1950, Serial No. 154,489
3 Claims. (Cl. 158—28)



1. In an oil burner, a forced air conduit with an open discharge end and oil supply means having an outlet adapted to spray oil adjacent the discharge end of said conduit into an air stream forced through and out of the discharge end of said conduit, a pair of co-extensive spaced elongated electrodes rigidly mounted in side by side relation in said air conduit with their longitudinal axes extending longitudinally of said conduit and thereby in an air stream forced therethrough, said rigidly mounted electrodes being formed with portions directed towards each other to form an arc gap and then directed away from each other and then directed forwardly in closely spaced relation to a termination in free ends, the portions of said electrodes immediately adjacent their free ends diverging to break an arc thereacross, the portions of said electrodes between said diverging free end portions and said gap being arc transmitting portions and having a separation greater than said gap and less than said diverging free end portions but across which an arc initiated at said gap will extend, said electrodes being mounted with said arc gap portions thereof rearwardly of the outlet of said oil supply means and thereby out of the combustion area of oil spray and air, said arc transmitting portions extending in said air conduit from said arc gap forwardly to a position substantially immediately in front of the outlet of said oil supply means whereby the spark will be transmitted to a spray of oil from the outlet of said oil supply means.

2,655,210

SHEET METAL MIXER FOR GAS BURNERS

Frederick C. Neals, Burlington, Vt., assignor to The G. S. Blodgett Co., Inc., Burlington, Vt., a corporation of Vermont

Application October 4, 1950, Serial No. 188,262
3 Claims. (Cl. 158—118)



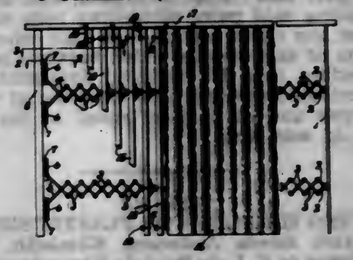
1. An atmospheric air and gas mixer unit for a burner ring comprising an L-shaped conduit embodying elongated duplicate half-sections of semi-circular cross-section having lengthwise outstanding marginal assembling flanges, the respective flanges being matched, abutted, and welded together, the inner end of said conduit providing a lateral burner ring attaching elbow, the latter being also provided with flanges for welded connection with said ring, the outer end of said conduit having an integral conical air and gas intake funnel, the intake end of said funnel having complemental outstanding marginal flanges, the terminal ends of said marginal flanges at the mouth of said cone being offset and spaced apart and providing diametrically opposite recesses, a two-part yoke, the parts thereof abutting each other and providing a nipple encircling band and attaching ends for said yoke, the respective attaching ends being seated in said recesses, and a concentric screw-threaded nipple having one end embraced by and attached to said band, and said attaching ends being welded in said recesses and thus serving to assemble and join said yoke with said cone and said nipple with said yoke.

2,655,211

COLLAPSIBLE CLOSURE

Theodore Schaap, Muskegon, Mich.

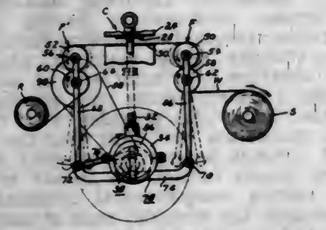
Application March 12, 1951, Serial No. 215,120
8 Claims. (Cl. 160—84)



1. In a collapsible closure, a fixed vertical post member, a pair of vertically spaced elongated lazy tongs formed of a plurality of links, pivots for the links at their points of intersection, each pair of lazy tongs being connected at one end to said post, a vertical bar connecting the other ends of said lazy tongs and movable toward and away from said post upon opening and closing of said lazy tongs, horizontally spaced and vertically aligned pairs of covering supports connected to and movable with said lazy tongs, said covering supports each comprising relatively narrow angular plates having short and long arms, the short arms being connected to the lazy tongs and the long arms of said plates diverging forwardly and outwardly at an angle to the plane of the lazy tongs, elongated vertical slats connected to the long arms of aligned pairs of plates,

said slats being in parallel relation and spaced from said lazy tongs, and a flexible covering from said post to said bar and connected along its vertical end portions to same, said covering being fixed to said slats throughout their length at points spaced inwardly of the vertical edges of same.

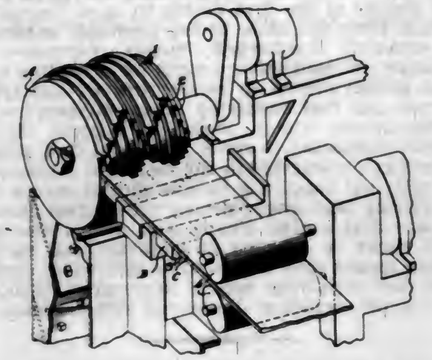
2,655,212
WEB HANDLING MACHINE
Ralph T. Stewart, Winston-Salem, N. C., assignor to The Herald Press, Inc., a corporation of North Carolina
Application January 28, 1950, Serial No. 141,124
7 Claims. (Cl. 164—22)



1. A machine of the character described comprising means for disposing a web for continuous feeding through said machine, an intermittently operating conforming unit, and means for stopping travel of said web intermittently at said conforming unit while still allowing continuous feeding of said web, said last mentioned means comprising a first pair of web feeding rolls disposed ahead of said conforming unit, a second pair of web feeding rolls disposed beyond said conforming unit, both of said pairs of feeding rolls being driven continuously with the rolls of each pair rotating at the nip thereof in a direction opposite to the direction of web travel through said conforming unit whereby said web may be trained through the nip of each roll pair with a web portion extending between the roll pairs over one roll of each pair, and means for oscillating said pairs of feeding rolls about the axis of the other roll of each pair whereby the portion of said web extended between said pairs of feeding rolls is displaced intermittently in a direction opposite to the direction of travel of said web and at a speed equal to the feeding speed of said web.

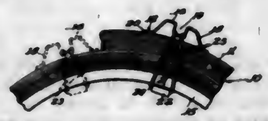
2,655,213
CUTTING MACHINE FOR PLASTIC SHEETING
Frederick Edwin Anderson, Elizabeth, W. Va., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
Application June 30, 1950, Serial No. 171,521
9 Claims. (Cl. 164—68)

1. A rotary cutter adapted for continuously cutting plastic sheets, which cutter comprises a rotor composed of a multiplicity of composited discs mounted to revolve about a common axis, each disc having at least one cutting face, and a bed plate composed of a multiplicity of composited platen bars, each positioned perpendicular to the common axis of said discs so that a close clearance exists between a platen bar and a cutting face of an aligned disc, each cutting face being staggered circumferentially with respect to the corresponding cutting face of an adjacent disc, the cutting faces of a corresponding group of adjacent cutting faces being staggered stepwise in at least two different circumferential positions, each cutting face being staggered radially with respect to the corresponding cutting face of an adjacent disc, the cutting faces of a corresponding group of adjacent cutting faces being staggered stepwise in at least two different radial positions, the circumferential distance between cutting faces of a corresponding



group of adjacent cutting faces being greater than the thickness of the sheeting but no greater than 1.75 times the thickness, the groups of corresponding adjacent cutting faces being arranged symmetrically about the periphery of the rotor, the total number of groups of corresponding adjacent cutting faces occupying no more than 90° of the periphery of the rotor.

2,655,214
TAPE CUTTING DEVICE
Paul Van Cleef, Los Angeles, Calif.
Application December 29, 1949, Serial No. 135,767
5 Claims. (Cl. 164—84.5)



1. As a new article of manufacture, a device designed for use in connection with an open center roll of tape, adapted when a length of tape is unwound from the roll and properly manipulated with respect to the device to cut the inner end of the length, and comprising an outer part extending across, and circumferentially and bodily slidable on, the outermost convolution of the tape and provided with a tape cutting edge, an inner part extending across, and circumferentially and bodily slidable on, the inner periphery of the roll, one of the parts having an open ended channel formation formed therein and extending completely thereacross and from one side of the roll to the other, and the other of said parts being provided adjacent the sides of the roll with opposed hooks and elastic means extending between the two parts, arranged to connect said parts together for conjoint sliding movement relatively to the roll and also automatically to pull or draw the outer part towards the inner part as the roll decreases in size due to removal of lengths of tape therefrom, and consisting of a single rubber band embodying side portions and end portions between the ends of the side portions and having the intermediate parts of its side portions disposed within, extending lengthwise through, and in laterally interlocked relation with, the channel formation of the one part, the end parts of said side portions extending substantially radially across the sides of the roll, and its end portions looped around, and detachably connected to, the hooks of said other part.

2,655,215
AUTOMATICALLY STEPPED POCKET PUNCH
John Kertes, Pittsburgh, Pa.
Application August 18, 1947, Serial No. 769,127
6 Claims. (Cl. 164—89)



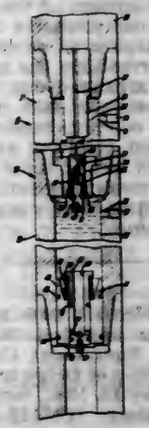
1. Manually operable punching apparatus comprising in combination with a casing, a punching wheel mounted for adjusting rotation and straight-line punching movement in said casing, a wheel-actuating lever pivotally mounted in the forward region of said casing and extended rearwardly thereof acting to cause punching movement of said wheel under manual operation, a spring arranged in opposition to said wheel-actuating lever and exerting thereon a resilient force to retract said wheel, perforating pins mounted in groups forming punching characters peripherally of said wheel, matching grids at the base of said casing between which a work-sheet to be punched lies and through which the said perforating pins pass; work-sheet-positioning means comprising a pair of work-sheet-contacting rollers between which the work-sheet is passed, a ratchet on one of said rollers, a one-way pawl yieldingly engaged with said ratchet and extended toward and connected with said wheel-actuating lever, and a lost motion connection between said pawl and said wheel actuating lever adjacent the rearward end of said lever to provide lost motion at the beginning of the roller actuating stroke of said pawl, said lost motion connection thus acting to rotate said roller with time delay providing clearance of said perforating pins from a work-sheet in said grid during resilient retraction of said punching wheel and to shorten the stroke of said pawl in both directions of its movement with the said lever.

2,655,216
POSITIVE SHUTOFF PORTED CASING APPARATUS
Reuben C. Baker, Coalinga, and Benjamin Lewis Austin, Long Beach, Calif., assignors to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California
Application April 23, 1948, Serial No. 22,886
17 Claims. (Cl. 166—1)

1. In apparatus of the character described: a tubular member having a side port and adapted to form part of a conduit string positionable in a well bore; a sleeve valve member shiftably mounted on the exterior of said tubular member and disposed initially in position to allow fluid passage through said port; and hydraulically operable means within said tubular member engageable with said valve member for shifting said valve member along said tubular member to port closing position completely over said port upon movement of said hydraulically operable means within said tubular member to prevent flow of fluids through said port between the interior and exterior of said tubular member.



2,655,217
FLOW REGULATING DEVICE
Edgar W. Bagnell, Glendale, Calif., assignor, by mesne assignments, to Johnston Testers, Inc., Houston, Tex., a corporation of Delaware
Application September 4, 1951, Serial No. 244,922
10 Claims. (Cl. 166—1)



1. An oil well regulator device, comprising a tubular housing adapted to be incorporated in a supporting string of pipe or the like, a floating piston means slidably mounted within said housing and adapted to be forced in one direction along the housing, and means carried by the housing spaced from said piston means in said one direction, closing the interior of the housing at its location to the passage of fluid thereby, the second named means including a valve openable upon engagement of the piston means and said second named means to allow free flow of fluid through said second named means, said piston means including a valve openable upon engagement between said piston means and said second named means to allow free flow of fluid through said piston means.

2,655,218
EQUIPMENT FOR TREATING WELLS
Robert L. Crain, Houston, Tex., assignor to Gray Tool Company, Houston, Tex., a corporation of Texas
Application June 3, 1949, Serial No. 96,941
8 Claims. (Cl. 166—14)



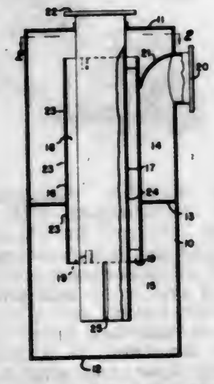
1. Oil well apparatus of the character described for use in an oil well having a casing and oil well flow tubing therein, comprising: an upper coupling in the casing having a first fluid way therethrough communicating with the upper end of the flow tubing and also having a second separate fluid way therethrough non-communicating with the flow tubing, a pipe section smaller than the flow tubing and having means for attachment to said coupling for communication with said second separate fluid way to convey treating fluid therefrom to the bottom of the flow tubing, well head equipment comprising a fitting having an outlet for discharging oil from the flow tubing and an inlet for receiving the treating fluid, and a pair of tubes arranged one within the other and connected between said coupling and said fitting, providing conduits separate from one another, one of said conduits extending between said inlet and said second separate fluid way and the other of said conduits extending between said outlet and the first fluid way communicating with the flow tubing.

2,655,219
FIRE EXTINGUISHER DISCHARGE DEVICE
Harry Ensminger, Milburn, N. J., assignor to C-O-Two Fire Equipment Company, Newark, N. J., a corporation of Delaware
Application May 12, 1951, Serial No. 226,047
2 Claims. (Cl. 169—11)



1. A discharge nozzle for carbon dioxide fire extinguishing fluid comprising a nozzle body having a fluid passage therein, the nozzle body having a closed pointed end and a plurality of radially positioned outwardly directed orifices adjacent the base of the pointed end, means providing a shoulder about the nozzle body, a directing tube with a closed apertured end about the nozzle body and positioned against the shoulder, a first ring nut threadedly engaged with the exterior of the nozzle body to hold the directing tube in position against the shoulder, a cup-shaped deflecting member overlying the orifices and having its outer edge abutting against the inside surface of the directing tube, and a second ring nut threadedly engaged with the exterior of the valve body to urge the cup-shaped deflecting member against the inside of the directing tube in a stiffening relationship.

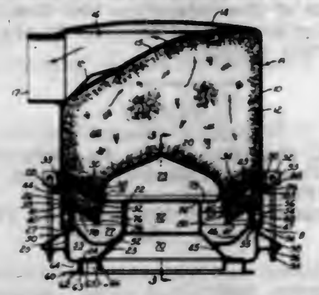
2,655,220
SILENCER FOR OUTSIDE INSTALLATION
John P. Tyskewicz, Hartford, Conn., assignor to The Maxim Silencer Company, Hartford, Conn., a corporation of Connecticut
Application April 18, 1951, Serial No. 221,634
2 Claims. (Cl. 181—55)



1. A silencer comprising a substantially cylindrical shell having end headers and being divided into an inlet and an outlet chamber by a transverse partition; said silencer having an open-ended cylinder passing through the partition and terminating at each end at a point between the partition and the respective end header, an inlet conduit opening into the inlet chamber adjacent that end of the open-ended cylinder in the inlet chamber, a curved plate secured to the shell adjacent the upper portion of the inlet conduit and curved downwardly over the opening of said conduit, and an outlet conduit passing through an end header, through a portion of the inlet chamber, through the interior of the open-ended cylinder, through a portion of the outlet chamber, and terminating within the latter at a point between the end of the open-ended cylinder and the adjacent end header, said open-ended cylinder being imperforate on the side adjacent the inlet conduit and having on the opposite side a single row of perforations located at half and quarter points along its length, and the outlet conduit being imperforate on said opposite side where it passes through the open-ended cylinder and having on the side adjacent the inlet conduit a single row of holes located at half and quarter points along its effective acoustic length.

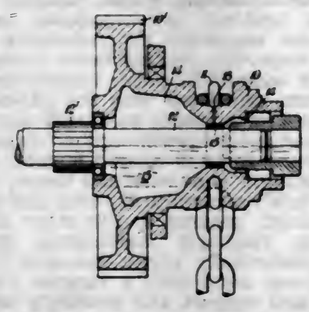
2,655,221
AIR CLEANER FOR AUTOMOTIVE VEHICLES
Kenneth F. Russell, Claremont, Calif., assignor to Herman H. Garner, Claremont, Calif.
Application April 23, 1951, Serial No. 222,373
16 Claims. (Cl. 183—15)

1. In combination in an oil-bath air cleaner: an upper casing enclosing a filter pack and having a bottom wall supporting said pack; an oil-cup device at the lower end of said casing having a lower wall and having a central upstanding air tube means supported by said lower wall of said oil-cup device and providing an air-intake passage extending through said oil-cup device for directing entering air against said bottom wall; baffle means extending downward from said bottom wall and around said air tube means and providing a free lower edge within said oil-cup device for the passage of air thereunder, said baffle means providing an outer air passage therearound to receive air passing under said free lower edge; air-passing support means for said filter pack above said outer air passage; and a barrier plate carried within said oil-cup device



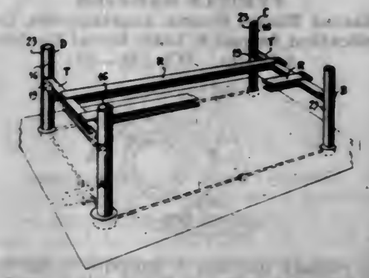
below said free lower edge and around a lower portion of said air tube means for deflecting upward air descending around said tube means, said barrier plate providing oil-passage means adjacent its inner edge for passage of oil upward adjacent said air tube means and also providing oil-passage means adjacent its periphery for passage of oil downward into the bottom of said oil-cup device and thus providing for oil circulation radially outward above said plate and radially inward below said plate.

2,655,222
MEANS FOR LUBRICATING CHAINS
Kenneth Bernard Warwick, Hitchin, England, assignor to Geo. W. King Limited, Hitchin, England, a British company
Application March 22, 1951, Serial No. 216,937
In Great Britain April 21, 1950
5 Claims. (Cl. 184—15)



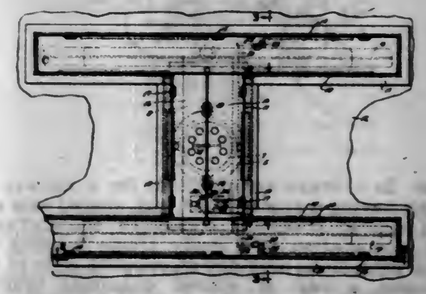
1. A chain lubricating device comprising a rotatable sprocket wheel around which the chain is caused to pass and which is formed with a duct extending from the periphery and through the body thereof, a member associated with said sprocket member to rotate therewith and including a recess which is in communication with the duct in said sprocket and an open ended channel adapted to communicate with said recess, and an oil bath in which said member is adapted to rotate, the arrangement being such that on rotation of the sprocket, the channel in said member will be caused intermittently to dip into the oil in said bath and thereby to pick up small quantities of oil which will be transferred to the recess in said member and thence via the duct in the sprocket to the chain passing around the latter, there being no passage or leakage of oil during such times as the sprocket is at rest.

2,655,223
LIFTING DEVICE FOR VEHICLES
Julio Villars, Versoix, Switzerland
Application March 1, 1950, Serial No. 147,002
In Switzerland January 16, 1950
9 Claims. (Cl. 187—8.59)



1. In a lifting device, the combination, comprising, four tubular columns vertically ground supported and forming a rectangle, a tube constituting a part of each column and having a vertical slot, a lifting frame including load engaging members and crossbars, the latter supporting the ends of the load engaging members, frame supporting means at the opposite ends of each crossbar embracing a related tube, a screw in each tube, a nut on each screw, means for connecting each nut with the said frame supporting means whereby movement of the screw will actuate said crossbar, means at the lower end of each screw for journaling the same for rotary movement in either direction, motor means for rotating the screws, and shields one for each column and surrounding the slotted portion of each tube.

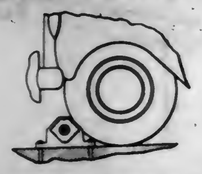
2,655,224
DOOR CONTROL FOR THE REAR LIFTING MECHANISM OF TWO POST LIFTS
Ion V. K. Hott and Kenneth E. Berk, Dayton, Ohio, assignors to The Joyce-Cridland Company, Dayton, Ohio, a corporation of Ohio
Application March 20, 1950, Serial No. 150,696
7 Claims. (Cl. 187—8.62)



1. In an automobile lifting mechanism, a vertically movable lifting element, a superstructure mounted on said lifting element for movement thereby through an opening in a floor into and out of a pit below the level of said floor, movable closures for said opening, means for moving said closures to open positions including an actuating mechanism below said opening and controlled by said lifting element, and means for operatively

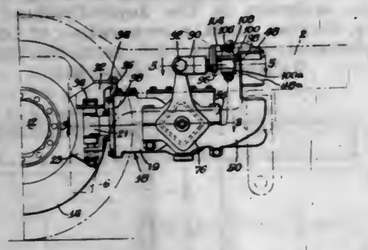
connecting said actuating mechanism with one of said closures, said connecting means including a resilient element of sufficient strength to open said closure under normal operating conditions and adapted to yield and permit said actuating mechanism to move with relation to said closure when excessive resistance is offered to the opening movement of said closure.

2,655,225
VEHICLE BARRIER
Marcus Russel Harris, Indianapolis, Ind.
Application August 4, 1949, Serial No. 108,540
1 Claim. (Cl. 188—32)



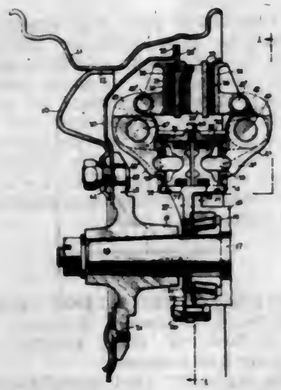
In a vehicle barrier, a support comprising an integral base having a flat bottom surface for ground engagement and provided with laterally extending ears having anchor receiving openings extending therethrough, a barrier receiving socket extending upwardly therefrom comprising supporting walls diverging outwardly from points on opposite sides of the approximate center point of said base, a one piece wheel engaging barrier rail having sides diverging outwardly from points on opposite sides of the approximate longitudinal center of the rail to engage and rest upon the said supporting walls, and means extending laterally through said base to engage the end of said rail to secure the same in said base.

2,655,226
DUPLEX BRAKE
Carl E. Tack, Chicago, and William J. Casey III, Highland Park, Ill., assignors to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application March 16, 1951, Serial No. 215,892
20 Claims. (Cl. 188—59)



20. In a brake arrangement for a railway car truck having a truck frame with spaced side rails and spaced transoms connected therebetween; the combination of a brake frame housing, coaxial extensions provided on opposite sides of said housing, a pair of spaced mounting brackets carried by a transom and formed with quadrangular openings to receive said extensions, resilient pads disposed in said openings to engage and yieldably resist movements of the housing relative to said brackets, an adapter secured on the end of of one of said extensions, a torque arm resiliently mounted for limited universal movement on said adapter to resist rotational movement of said housing relative to said brackets, a connecting link means connecting said arm to said transom, and means to vary the length of said connecting link means, said connecting link means comprising a plurality of interengaging threaded members, one of said members being pivotally connected to said torque arm, a second of said members being pivotally connected to said transom, and an intermediate member connecting said other members whereby rotational movement of said intermediate member varies the length of the connecting link means, and a latch mounted on said transom to engage said intermediate member.

2,655,227
DISK BRAKE
Carolus L. Eksergian, Media, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 29, 1950, Serial No. 176,695
5 Claims. (Cl. 188—72)

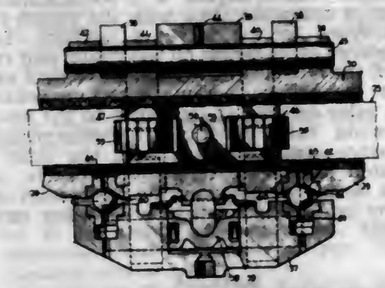


5. In a vehicle brake, in combination, a rotary brake element having spaced annular radially extending braking faces, opposed segmental brake shoes supported in cooperative relation with the respective braking faces, a support for said shoes supporting them intermediate their ends, means associated with the adjacent ends of the shoes for normally yieldingly maintaining them spaced apart a predetermined distance, said means comprising a U-shaped member embracing the adjacent shoe ends and having one arm of the U rigidly secured to one shoe and the other arm yieldingly secured to the other shoe, and means for yieldingly maintaining the shoes spaced substantially equal distances from the braking faces comprising a member rigidly secured to said support and yieldingly secured to said U-shaped member.

2,655,228
SELF-ENERGIZING BRAKE
Carolus L. Eksergian, Media, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 2, 1950, Serial No. 182,934
9 Claims. (Cl. 188—72)

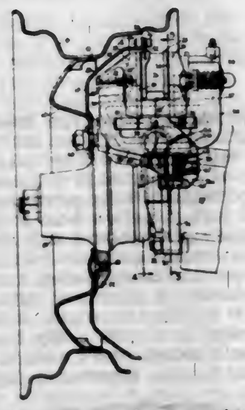
9. In combination, a brake rotor having a braking face, a segmental shoe for cooperation with said face, the shoe having its length arranged circumferentially, a support for the shoe including a part opposed to the back of the shoe, means carried by said part for moving the shoe

axially into braking engagement under manual control and providing circumferential movement of the shoe relative to said support part, and cam means between the shoe and said part at spaced points along the length of the shoe for imparting a servo-action upon the shoe when it is moved endwise by the frictional engagement with the rotor incident to the manually-con-



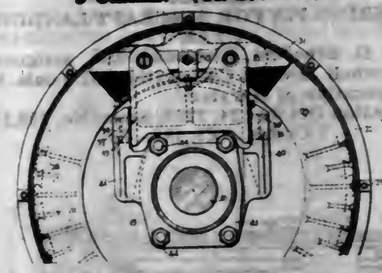
trolled actuating means, said cam means at each circumferential point comprising opposed cam faces on the shoe and part, and a ball engaging said faces, and riding up the slopes of the cam faces to effect said servo-action, the shoe having pivotal movement on said ball intermediate its width about an axis parallel to a secant of said rotor, said cam faces conforming transversely of their length to the contour of the ball.

2,655,229
DISK BRAKE MECHANISM
Carolus L. Eksergian, Media, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 3, 1951, Serial No. 209,235
9 Claims. (Cl. 188—72)



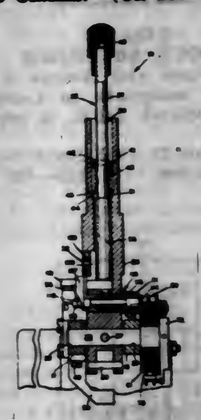
9. In combination, a brake rotor having opposed radial braking faces, segmental shoes for cooperation with the respective faces of the rotor, and a support means for the shoes pivotally mounting the shoes and including an integral U-form clamp embracing the backs of the shoes, means for relatively moving the shoes toward each other to effect the braking and means for normally yieldingly holding them apart, said clamp being formed with runnions mounted in spaced bearings on an axis disposed in the plane of the rotor, whereby the clamp can swing transversely of the plane of the rotor to a limited extent, and yielding means for frictionally opposing such swinging movement of the clamp.

2,655,230
DISK BRAKE MECHANISM
Edwin K. Buyse, St. Clair Shores, Mich., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 3, 1951, Serial No. 234,957
5 Claims. (Cl. 188—72)



4. In combination, a fixed support, brake mechanism including a rigid U-form member and brake shoes carried by the respective arms of the U, a brake rotor for cooperation with said shoes, said U-form member being mounted for limited transverse pivotal movement with respect to the rotor, said mounting comprising spaced trunnions extending, respectively, fore and aft of said member, and a pair of overlapping plate-like members, each carrying a bearing for receiving one of said trunnions, said plate-like member being secured in the overlap to said fixed support.

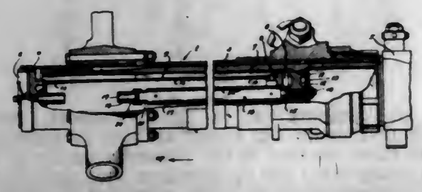
2,655,231
BRAKE MECHANISM
Francis Henry S. Rossire, Leonia, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Original application March 17, 1948, Serial No. 15,325. Divided and this application February 8, 1949, Serial No. 75,189
3 Claims. (Cl. 188—83)



3. In a brake assembly for restraining relative movement of a pair of members rotatable relative to one another, a plurality of substantially circular plates, at least some of said plates having chord-like faces, a plurality of elements extending through said plates and attaching said plates to one of said members, a plurality of substantially circular plates of smaller diameter than said first-mentioned plates and interspersed therebetween, at least some of said last-mentioned plates having tabs extending therefrom adjacent said chord-like faces, a pin extending through said tabs and secured to said other mem-

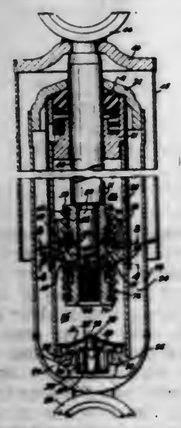
ber and arranged to engage said chord-like faces to limit relative movement of said members, and yielding means mounted on said elements and urging said plates together.

2,655,232
METERING PIN FOR AIRCRAFT LANDING GEAR
Murray D. Etherton, Kirkwood, Mo., assignor to McDonnell Aircraft Corporation, St. Louis, Mo., a corporation of Maryland
Application October 14, 1950, Serial No. 190,165
1 Claim. (Cl. 188—88)



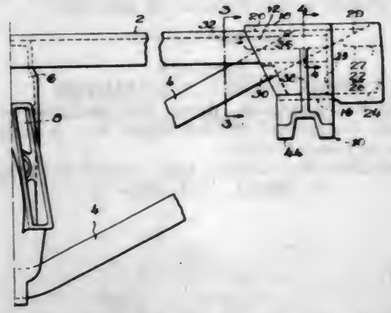
A shock absorbing strut for aircraft comprising a pair of telescoped members, a wall supported by one of said members for dividing the space in the strut into two chambers having an aperture therein, a metering pin supported by the other member and extending through said aperture in said chamber, an orifice in one end of said metering pin for establishing communication between said chambers for permitting said members to telescope slowly, a series of large apertures in said metering pin near one end thereof for establishing communication between said chambers for permitting said members to telescope rapidly; and other axially spaced apertures in said metering pin for establishing communication between said chambers for permitting said members to telescope at a decreasing rate.

2,655,233
SHOCK ABSORBER
Mearick Funkhouser and George A. Brundrett, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 29, 1951, Serial No. 234,203
12 Claims. (Cl. 188—88)



6. In a fluid flow control mechanism for an hydraulic shock absorber having a cylinder and a fluid reservoir; the combination with a piston in said cylinder, said piston having passages for the transfer of fluid through the piston in either direction; a resilient control valve secured at its center to the piston and engaging one end of the piston to cover certain of its passages; resilient means urging the control valve into seating engagement with the piston, the control valve having a predeterminately sized orfice communicating with the piston passages covered by the valve; a resilient check valve secured at its center on the piston and resting upon the outside of the resilient control valve to close the orifice therein; a second resilient control valve secured at its center to the piston, said second valve having a predeterminately sized orifice communicating with the other of said piston passages covered by the valve; and resilient means yieldably urging the second control valve into engagement with the other end of the piston.

2,655,234
BRAKE BEAM WITH FIXED HEAD AND GUIDE
Walter H. Baselt, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application September 22, 1945, Serial No. 617,966
22 Claims. (Cl. 188—228.1)

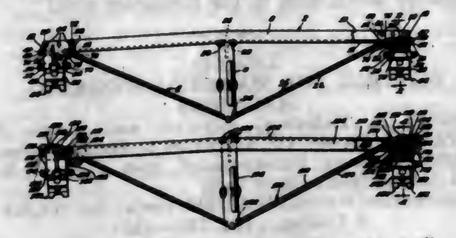


1. In a fabricated truss type brake beam, a brake head with a hollow portion including a rear wall, top and bottom walls connected thereto, and an outboard wall connected to said rear wall and to said top and bottom walls, an opening through said outboard wall, a hollow boss formed on the outboard face of said outboard wall and comprising an internal socket communicating with said opening, a U-section compression member fitted within said portion in abutment with all of said walls, a tension member extending into said compression member and outboardly through said opening into said socket, and a weld in said socket connecting said tension member to said boss.

2,655,235
FABRICATED BRAKE BEAM
Edward J. Simanek, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application April 18, 1950, Serial No. 156,643
19 Claims. (Cl. 188—228.6)

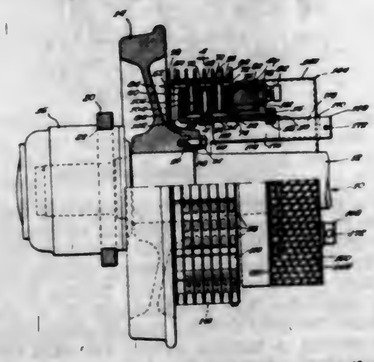
5. In a brake beam, a truss structure comprising tension and compression members, said compression member being of channel form and having a generally vertical web with openings therethrough adjacent the ends thereof receiving portions of the tension member therethrough, said tension member having other portions engaged

with the forward side of the wall, and means connecting said first and second-mentioned portions



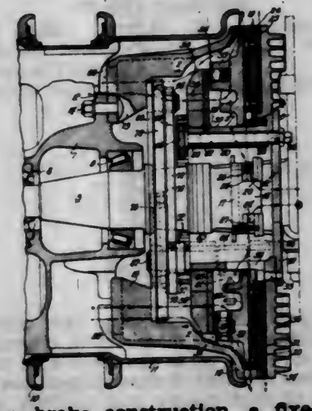
to the rear and forward sides of said wall, respectively.

2,655,236
DISK BRAKE
Fred E. Bachman, St. Louis, Mo., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application May 25, 1949, Serial No. 95,299
22 Claims. (Cl. 188—59)



1. In a brake arrangement for a railway car truck having a truck structure and a supporting wheel and axle assembly including an axle and a wheel; the combination of an annular rotor housing encircling the axle and connected to said assembly for rotation therewith, said housing including an annular plate extending generally radially with respect to the rotational axis of said assembly and an annular flange on said plate extending generally axially of this assembly, said flange having a plurality of convolutions defining chambers, a rotor having a splined connection at its outer perimeter to said flange limiting rotative movement of the rotor relative thereto and accommodating movement of the rotor relative to the flange axially of said assembly, said rotor having spring abutments projecting into the respective chambers, removable stops carried by said flange and projecting into the respective chambers, spring means compressed against said plate and said abutments for urging the latter against said stops, a stator support encircling the axle and projecting into said housing, a torque connection between said structure and said stator support, a plurality of slots in said stator support, a stator having a splined connection at its inner perimeter to said stator support limiting rotative movement of the stator relative thereto and accommodating movement of the stator relative to the stator support axially of the assembly, a member projecting into each of said slots and connected to the inner perimeter of the stator, spring means carried by the stator support and connected to said member for urging the stator to spaced position with respect to the rotor, and power means for urging the rotor and stator axially of said assembly into a pile against an abutment of said stator support.

2,655,237
BRAKE CONSTRUCTION
Ary A. Benson, Detroit, Mich.
Application August 1, 1946, Serial No. 687,571
4 Claims. (Cl. 188—264)

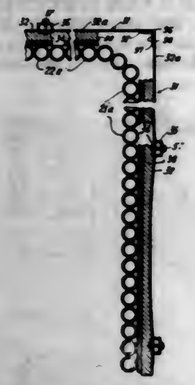


2. In a brake construction, a fixed pressure plate, an axially shiftable pressure plate and a friction plate between said pressure plates, said plates being parallel and in coaxial alignment, a central fixed hub coaxial with said pressure plates and around which said friction plate is rotatable, radially directed openings formed in said hub for passage of air from within said hub to said friction plate, and radially extending channels in said friction plate for receiving air from said openings and for discharging it radially outwardly at the periphery of said friction plate upon rotation of the latter, and means supporting said friction plate for rotation about said hub, said means supporting said friction plate including a rotatable wheel coaxial with said hub having radially directed ribs radially inwardly of the periphery of said wheel and axially directed openings in said wheel at one of the ends of said ribs for admitting air to the spaces between said ribs, the opposite ends of said ribs being adjacent said shiftable pressure plate whereby air will be drawn through the axially directed openings in said wheel for movement to said movable pressure plate upon rotation of said wheel.

2,655,238
FLUID HEATER CASING
Ivar L. Langvand, Barberton, Ohio, assignor to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey
Application November 13, 1946, Serial No. 709,563
4 Claims. (Cl. 189—34)

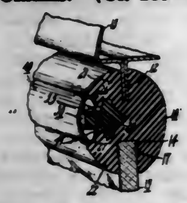
1. A casing comprising separate relatively flexible planar plate members arranged in a row and each having substantially parallel opposite free edge portions arranged transversely of the row, a framework against which said plate members are assembled comprising parallel bar-like batten members of rigid rectilinear formation engaging the inner side of said plate members and each overlapping the adjacent free edge portions of a pair of said plate members, substantially throughout the extent of said portions transversely of the row, batten members of rigid rectilinear channel-like cross section each having

flanges extending substantially normal to said plate members and terminating in edges engaging the outer side of said plate members solely at locations symmetrical with and oppositely displaced longitudinally of said row from the total area engaged by one of said inner side batten



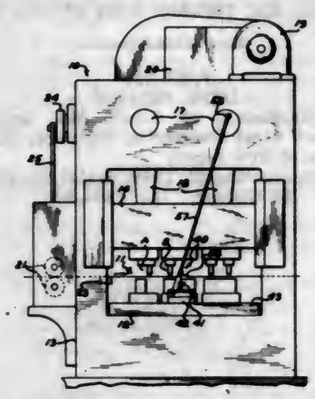
members, and means holding said inner and said outer side batten members in clamping engagement with said plate members with sufficient force to effect resilient flexure thereof toward the inner side of said casing and thereby increase plate member stiffness.

2,655,239
CONNECTOR STRIP
Albert Alexander Hebart Kenlock, Stoke Hammond, near Bletchley, England, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 1, 1951, Serial No. 244,764
In Great Britain January 17, 1951
4 Claims. (Cl. 189—78)



1. In combination, a connector strip of flexible resilient material having a wedge groove extending longitudinally thereof, an auxiliary strip of flexible material having a wedge portion pressed into said wedge groove in interlocking relation therewith and thereby retained assembled upon said connector strip, said auxiliary strip having a relatively narrow exteriorly accessible longitudinal flange projecting outwardly therefrom free from adjacent portions of said connector strip, a series of separate generally U-shaped metal clips each having two legs for straddling said flange, said legs including opposed ledge portions intermediate the ends thereof and also including inwardly extending claws at the free extremities thereof clamped around the projecting edge of said flange at spaced intervals along the length thereof, and a trim strip for overlying and concealing said auxiliary strip and secured thereto by opposed edges thereof resiliently engaging opposed ledge portions on a plurality of said metal clips, said trim strip being so dimensioned that the said legs of the clips are forced inwardly thereby for causing the claws to be held in clamping engagement with said flange, thereby holding the trim strip and the separate metal clips to the connector strip.

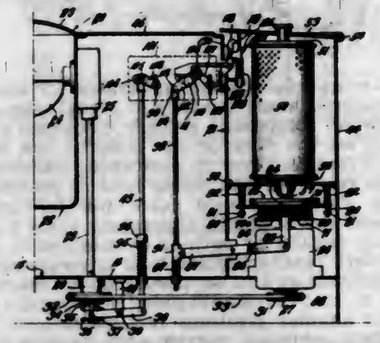
2,655,240
CONTROL FOR MATERIAL WORKING MACHINES
Edward J. Bohaboy, Berwyn, and Louis A. Pojman, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 2, 1949, Serial No. 130,816
9 Claims. (Cl. 192—127)



1. In a power operated strip material working machine having means for feeding strip material step by step to a tool operable in timed relation to the feeding means for forming equally spaced formations on the material and means for driving the machine, the combination of a control mechanism for said driving means comprising an electric circuit, a control switch for said circuit, a reciprocatory element for following the material during its step by step feed, means operatively connected to said driving means for causing said element to move back and forth along the material a distance equal to each normal material feeding movement and in unison with the material during its feeding, and movable means on said element in the line of travel of each successive formation on the material and normally spaced a predetermined tolerable distance from a formation and following the same during the material feeding, said means on the element being responsive to an engagement thereof with a formation upon a misfeed of the material occurring for actuating said control switch to effect an actuation of the control mechanism to stop the machine.

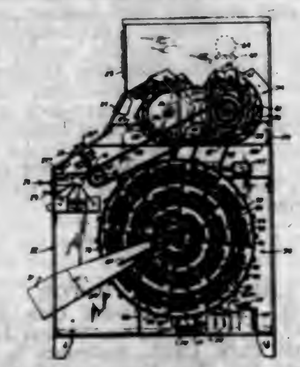
2,655,241
DRIVING ARRANGEMENT AND CONTROL FOR CLOTHES-WASHING APPARATUS AND THE LIKE
Rolf Bertil Johannes Hultberg, Stockholm, Sweden, assignor to Aktiebolaget Elektrolux, Stockholm, Sweden, a corporation of Sweden
Application July 16, 1947, Serial No. 761,300
In Sweden August 12, 1946
6 Claims. (Cl. 192—136)

1. Washing apparatus of the type described comprising a driving member, a driven member, a clutch including a pair of cooperating elements for transmitting movement of said driving member to said driven member, a brake for said driven member including a first element and a cooperating second element, a part axially movable with respect to said driven member, one of said clutch elements and said first brake element being associated with said part as a unit, first resilient means for biasing said part in one direction toward said other clutch element to engage said clutch elements, second resilient means for biasing said second brake element in said one direction from said part to disengage said brake elements, mechanism operable to move said second brake element in the opposite direction toward said part against the tension of



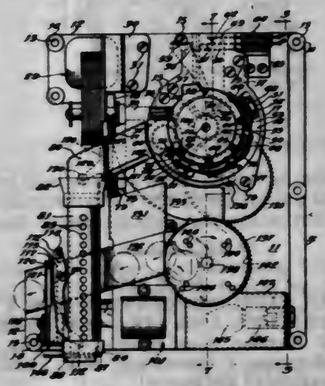
said first and second resilient means to apply said brake and disengage said clutch, said clutch and brake being so constructed and arranged that said clutch elements are engaged and said brake elements are disengaged in one position of said part and said clutch elements are disengaged and said brake elements are engaged in another position of said part, and third resilient means for biasing said mechanism to render said first and second resilient means operable to bias said part and second brake element, respectively, in said one direction.

2,655,242
COIN-CONTROLLED CARD DISPLAYING AND VENDING MACHINE
Philip Chalfin, Eatontown, N. J., and Benjamin Chalfin, Philadelphia, Pa.
Application February 7, 1948, Serial No. 6,984
10 Claims. (Cl. 194—10)



1. In vending apparatus intended for use with display mechanism for displaying cards to be sold by said vending apparatus, a rotatably mounted drum having a plurality of bins, each adapted to contain a supply of a particular type of card, a bellows operatively associated with each bin and carrying a vacuum cup normally engaging a card of said supply, an exhaust conduit connected to each bellows and having a mouth, a vacuum tank, a conduit communicating with said vacuum tank, means for operatively connecting said last mentioned conduit to a mouth of one of said exhaust conduits, and coin controlled mechanism for operating said connecting means.

2,655,243
COIN CHANGER
Louis F. Hehn, Chicago, Ill., assignor to Mills Industries, Incorporated, Chicago, Ill., a corporation of Illinois
Application November 1, 1947, Serial No. 783,590
4 Claims. (Cl. 194—10)

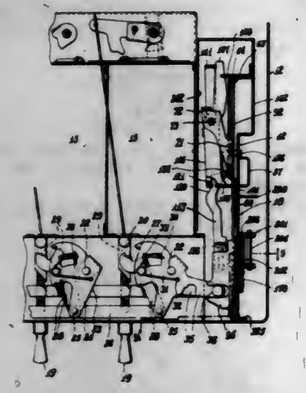


1. A coin changer comprising: intermittently rotatable coin receptacles, each being adapted to receive a coin of a different denomination; power means for rotating said receptacles to carry said coins one at a time through circular paths; means actuated by the coin passing into said receptacle for energizing said last-mentioned means; electric switches disposed contiguously to each of said paths in number corresponding to the denomination of said coins carried therethrough whereby said switches will be individually actuated upon being contacted by said coins; a change supply container; and a coin dispensing means associated with said container and operated by the actuation of said switches for ejecting change from the container each time any one of said switches is actuated.

2,655,244
COIN-CONTROLLED MECHANISM
Harry B. Stoner, Aurora, and Edwin Parre and Gordon Rogers, Batavia, Ill., assignors to Stoner Manufacturing Corporation, Aurora, Ill., a corporation of Illinois
Application December 20, 1948, Serial No. 66,224
9 Claims. (Cl. 194—55)

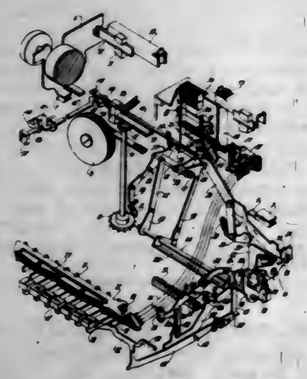
1. In a coin-controlled mechanism having a plurality of slidable members, means normally locking said members against movement in one direction, means responsive to the insertion of a coin of predetermined denomination to unlock said members, mechanism effective when actuated to discharge a coin from a supply of coins, said mechanism having a slidable connection with one of said slidable members, a latch associated with said connection effective to prevent relative sliding between the coin discharge mechanism and said one slidable member whereby the discharge mechanism is actuated upon sliding of said slidable member, and a cam element in the

coin-controlled mechanism effective when a coin or coins of lesser denomination are inserted in the



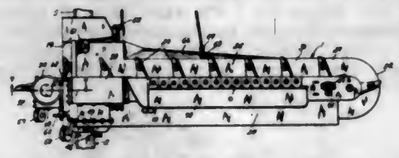
mechanism to engage and release said latch so as to permit actuation of the coin-controlled means without actuating the coin discharge mechanism.

2,655,245
TABULATING MECHANISM FOR TYPEWRITERS AND LIKE MACHINES
Walter T. Sagner, West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware
Application December 8, 1950, Serial No. 199,840
5 Claims. (Cl. 197—178)



1. In a typewriter tabulating mechanism, a plurality of reeds each projectable to a position for arresting the carriage in a tabulating run, spring means to project said reeds, means including keys to selectively release said reeds for projection, means including a motor for power-retracting the projected reeds, said retracting means including a movable member normally obstructing projection of said reeds, control means for said motor including an element movable to on and off positions, and means, rendered effective upon movement of said control element to off position, to obstruct operation of said retracting means and thereby hold its member in the reed-obstructing position preventing effective projection of said reeds while said control element is in the off position.

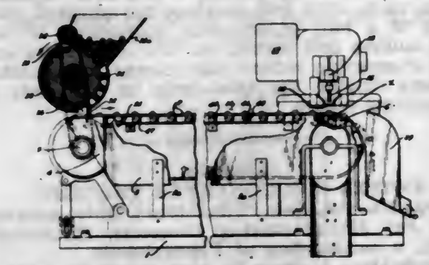
2,655,246
MATERIAL LOADING APPARATUS
Charles N. Bebinger, New Philadelphia, Ohio, assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application July 21, 1947, Serial No. 762,377
16 Claims. (Cl. 198—7)



1. In a material loading apparatus for loading loose material along the face of a coal mine, the combination comprising a single elongated guide rail laid on the floor of the mine at the inner side of a face conveyor in substantial parallelism with the coal face and firmly held in position, a carriage guided on said guide rail for guided movement longitudinally therealong along a substantially rectilinear path as determined by said rail, material gathering and loading means pivotally mounted on and supported at its rearward portion by said carriage to swing horizontally into different angular positions relative thereto and normally assuming a position with its major axis disposed at substantially right angles to said path of rectilinear movement of said carriage and to the coal face during the gathering and loading operation, said gathering and loading means at its rearward portion overlying said carriage whereby the material being loaded may be discharged onto the face conveyor and having an outward side gathering portion extending longitudinally close to and slidably supported by the mine floor for gathering loose material on the floor, releasable locking means for securing said gathering and loading means in said different horizontal angular positions with respect to said carriage, releasable locking means for locking said carriage against lateral movement relative to said guide rail, and means for feeding said gathering and loading means and said carriage bodily laterally in unison along said guide rail when said carriage-locking-means is released and said gathering and loading means is held fixed as regards horizontal swinging movement with respect to said carriage, said feeding means including a feeding element operatively connected to said gathering and loading means to effect swinging of said gathering and loading means horizontally on its pivotal mounting relative to said carriage when said carriage-lock is applied and said first mentioned locking means for said gathering and loading means is released whereby the angular operating position of said gathering and loading means with respect to the coal face may be varied.

2,655,247
CHERRY ORIENTATOR
Ellsworth W. Carroll, Redwood City, John W. Edgemond, Jr., Los Altos, and Holger J. Jespersen, Menlo Park, Calif., assignors to S & W Fine Foods, Inc., San Francisco, Calif., a corporation of California
Application March 12, 1951, Serial No. 215,044
22 Claims. (Cl. 198—33)

1. In a machine for orientating indented fruit, a generally horizontal receptacle for holding said fruit against gravity, said receptacle having a central bottom aperture therein, a fruit orientating member positioned to enter said receptacle through said aperture over an arc the tangent at the midpoint thereof being at an angle to the vertical, the upper tip of said member being movable over said arc from a point below



the level of the bottom of said receptacle to a point above said level, and means for oscillating said member between said two points to rotate a fruit in said receptacle by tangential contact with said fruit.

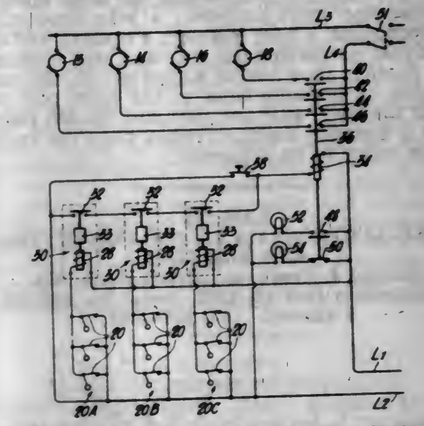
2,655,248
METAL SHEET LAPPING APPARATUS AND METHOD
Dario Buccicone, Gary, Ind.
Application May 3, 1951, Serial No. 224,350
6 Claims. (Cl. 198—35)



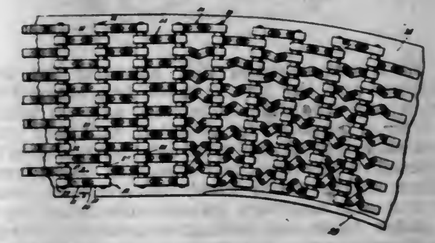
1. A sheet lapping apparatus comprising superposed spaced apart top and bottom magnetic conveyors, said top conveyor being adapted to carry sheets on its underside and said bottom conveyor to carry sheets on its upper side, said top conveyor extending beyond said bottom conveyor at its entry end and having a portion adjacent this entry end where its underside is substantially parallel to the upper side of said bottom conveyor and another portion where its underside diverges from the upper side of said bottom conveyor.

2,655,249
APPARATUS FOR DETECTING COBBLES IN SHEET HANDLING EQUIPMENT
Daniel E. Feick, Duquesne, Pa., assignor to United States Steel Corporation, a corporation of New Jersey
Application March 30, 1950, Serial No. 152,942
4 Claims. (Cl. 198—37)

1. In apparatus for conveying sheet material in orderly succession having conveying means and an electric motor for driving the latter in combination therewith of a control relay having a pair of normally open contacts in circuit with said drive motor, a normally closed limit switch opened and closed by each sheet of said orderly succession in turn, a time relay energized and deenergized by the closing and opening respectively of said switch, said time relay having an adjustable timing mechanism and a pair of contacts in circuit with said motor control relay, said last mentioned contacts being closed upon energization of the time relay and opened by the timing mechanism thereof, said timing mechanism being set in operation by energization of the time relay and reset to zero upon the deenergization thereof, and a manually operated normally open push button switch shunting the contacts of the time relay whereby the motor control relay may be initially operated to establish said orderly succession of sheet material past said limit switch.
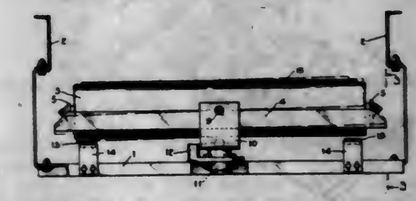


2,655,250
CONVEYER CHAIN
John L. Woolling, Indianapolis, Ind.
Application March 17, 1949, Serial No. 81,961
6 Claims. (Cl. 198—182)



1. In a conveyor chain, a series of spaced, transverse pins, links connecting adjacent ones of said pins, each of said links comprising a pair of blocks having holes respectively receiving adjacent pins and two pivotally interconnected sets of link-plates pivotally attached respectively to said two blocks, the axes of the pivotal connections of the link plates to each other and to the blocks being perpendicular to the common plane of the pin-receiving holes.

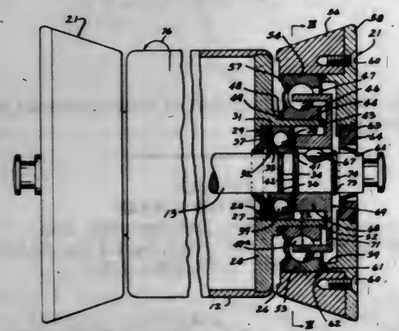
2,655,251
REVERSIBLE TRAINING IDLER
William F. Bankauf, East Paterson, N. J., assignor to Hewitt-Robins Incorporated, Buffalo, N. Y., a corporation of New York
Application June 3, 1950, Serial No. 165,994
7 Claims. (Cl. 198—202)



1. A mounting for a conveyor belt roller having protruding shaft portions at its ends comprising: a frame incorporating supports for said

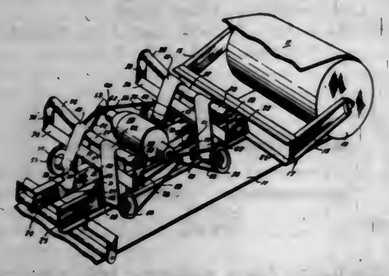
shaft portions; horizontal trunnions for the frame having their axis normal to the axis of the shaft portions and intersecting the same midway between the shaft supports; a yoke supporting the trunnions; a base member; a central, vertical pivot post connecting the yoke and base member; and friction shoe means supported on the base member on opposite sides of the pivot post beneath the shaft axis and normally spaced therefrom a distance slightly greater than the radius of the roller to be supported.

2,655,252
SELF-ALIGNING IDLER FOR CONVEYERS AND THE LIKE
Samuel J. Spurgeon, Birmingham, Ala.
Application July 10, 1952, Serial No. 298,075
9 Claims. (Cl. 198—202)



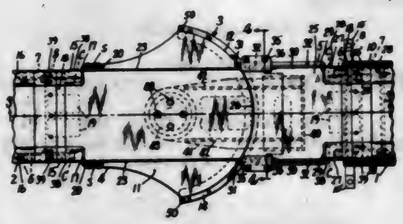
5. In a self-aligning idler assembly for belt conveyors and the like, a main belt supporting idler, a non-rotatable supporting axle on which the idler is mounted for rotation, auxiliary rollers at each end of the main idler disposed to be contacted when the belt becomes uncentered relative to the main idler, anti-friction bearings for said auxiliary rollers embodying inner and outer races and rolling anti-friction members therebetween, means supporting the inner races from the adjacent ends of the main idler for rotation therewith, means supporting the auxiliary rollers from the outer races, means holding the anti-friction members translatably fixed but free for rotation between the races, and means mounting the entire assembly for pivotal movement diagonally of the belt.

2,655,253
SUPPORTING AND AUXILIARY DRIVING MEANS FOR CONVEYER BELTS
Edwin B. Snead, Austin, Tex.
Application May 15, 1952, Serial No. 287,941
6 Claims. (Cl. 198—203)



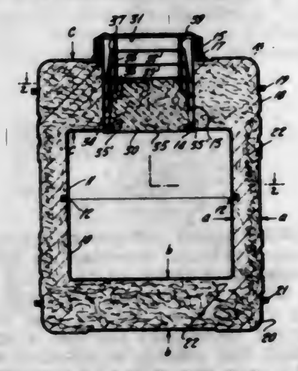
1. A supporting and auxiliary drive means for a conveyor having an endless belt comprising, a pair of longitudinally spaced sets of supporting rollers for supporting said endless belt at longitudinally spaced points along its length, each of said sets including a plurality of transversely aligned supporting rollers, a plurality of drive belts, each drive belt overlapping adjacent portions of a pair of adjacent supporting rollers, said endless belt resting on said drive belts and said supporting rollers, and means for simultaneously driving the drive belts of both sets of supporting rollers.

2,655,254
SWIVEL FOR CONVEYER TROUGHS
George Bacchli, New Philadelphia, Ohio, assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application January 26, 1948, Serial No. 4,285
1 Claim. (Cl. 198—220)



In combination, in a shaker conveyor, a positively reciprocated main pan line, an angularly adjustable extension of said pan line, and a swivel trough connecting said extension with said main pan line and transmitting shaker motion to the former from the latter including a pair of longitudinally abutting sections connected at their ends remote from each other one to said main pan line and the other to said extension, said one of said abutting sections having a horizontally concave end surface and said other having a horizontally convex end surface fitting said concave surface, means, including a longitudinally projecting, eye-providing plate secured to said one of said sections and a pivot member secured to said other of said sections and received in the eye of said plate, for connecting said sections for relative pivotal movement about a single axis located at the center from which the arcs of said concave and convex surfaces are struck and for preventing radial movement of either of said sections relative to said pivot whereby the angle of the angularly adjustable extension of said pan line may be varied relative to the main pan line while the reciprocatory movements of the latter are transmitted undiminished to the one of said longitudinally abutting sections which is connected to said extension, mine bottom engaging runners secured to said projecting eye-providing member and fixed relative to the lower side of said section having a horizontally concave end surface and extending beneath the adjacent portion of said section having the horizontally convex end surface, and means for preventing spillage of material as it passes over said sections including oppositely disposed, upwardly extending attachment members on one of said sections, guide members on the other of said sections and flexible side plates secured to said attachment members and longitudinally slidable in said guides.

2,655,255
PICNIC JUG
Joseph D. Brown, Eastchester, N. Y., assignor to Poleron Products, Inc., a corporation of New York
Application August 20, 1948, Serial No. 45,289
3 Claims. (Cl. 206—4)



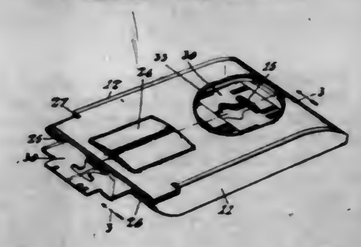
3. A picnic jug for storing hot or cold foods and keeping the same hot or cold over extended periods, comprising a metal cylindrical food containing liner having a flat bottom and a flat top provided with a filling opening, an upwardly extending tubular metal neck secured to the liner about the opening, the neck having an internally extending flange where it joins the liner and carrying an outer, downwardly extending, threaded cap-receiving ring, an outer cylindrical casing having a side spaced from the liner side wall, a closed flat bottom and a flat top secured to the cap receiving ring, fibrous insulating material between the casing and the liner and neck, the thickness of the insulation between the bottoms being substantially twice the thickness of the insulation between the sides to offer greater resistance to heat transmission to or from the bottom of the liner, the thickness of the insulating material between the tops being substantially three times the thickness of the insulation between the sides to offer still greater resistance to heat transmission to or from the top of the liner, a closed, insulation filled, plug having upwardly converging side walls and a flange resting on the first flange, a plurality of metal cups nested with one another and with the plug, the plug and each of the cups carrying an insulating ring which forms contact with the adjacent cups to avoid metal to metal contact, and a cap threaded on the ring and bearing on the uppermost cup to hold the filler against the flange.

2,655,256
CAP PROTECTOR
Maurice C. Guest, Hialeah, Fla.
Application March 7, 1950, Serial No. 148,215
2 Claims. (Cl. 206—8)



1. A cap protector comprising a compartment including a rigid annular wall and at least a flexible top member connected along a part of its edge portion to the adjacent edge of a major portion of said wall, said compartment being adapted for placing within a cap, said top member having an opening adapted for placing articles in the compartment, external adjustable means carried by the wall of the compartment and adapted to adjust the external diameter of the compartment substantially to that of the internal diameter of the cap to support the rim of the cap from collapsing, said cap including a visor at its front portion, and a rigid visor protector having an inner edge connected to the upper front edge of the wall and projecting from the front portion of the wall of the compartment at a point diametrically opposite said adjustable means and adapted to be in a re-enforcing position against the visor of the cap, said visor protector including outer front and side edge portions to which the remainder of said edge portion of the top member is connected.

2,655,257
BLADE DISPENSING MAGAZINE
Nicholas Testi, Boston, Mass., assignor to The Gillette Company, a corporation of Delaware
Application October 17, 1947, Serial No. 780,458
7 Claims. (Cl. 206—16)

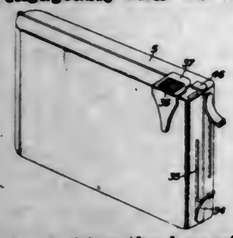


7. A blade-dispensing magazine including a base having side walls and a cover and containing a stack of thin blades, said magazine having an exit slot, one edge of which is formed by the cover of the magazine, blade-locating means inside said magazine shaped to hold the blades with their cutting edges out of contact with side walls of the magazine, the cover being provided with a finger opening directed towards said exit slot through which the user's finger may be inserted for feeding engagement with the uppermost blade of the stack, said exit slot being accurately defined in width at least in part by an inwardly transversely-extending ear comprising an integral part of the cover, located opposite to the aforementioned edge of the exit slot formed by the cover and spaced therefrom by less than the combined thickness of two blades, said ear lying wholly within the contour of the magazine and assuring the passage of only one blade at a time through the exit slot in response to blade-advancing pressure of the user's finger, said base being recessed adjacent said slot for receiving said ear.

2,655,258
CIGARETTE CASE
John Weigler, Mansfield, Ohio
Application March 3, 1950, Serial No. 147,439
2 Claims. (Cl. 206—41.2)

1. A cigarette case comprising a tray-like cigarette magazine and cover means therefor, said magazine having a dispensing opening at one end, and cigarette feed means in the magazine and comprising a V-shaped leaf spring pivoted at the end of one of its legs in the magazine and with its other leg acting on the cigarettes to move the same toward the opening of the maga-

zine, and means carried by one leg of the leaf spring and engageable with the other leg of the



leaf spring for locking the legs of the spring to each other to hold the same inactive.

2,655,259
TABLET CONTAINER
William Francis Davoren, Huntsville, Ala.
Application November 15, 1949, Serial No. 127,349
1 Claim. (Cl. 206—42)



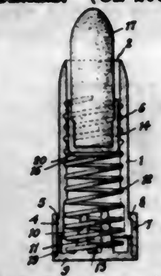
In a container, a rectangular hollow bottom portion provided with vertical upstanding front, back and side walls, a rectangular hollow cover provided with downwardly depending front, back and side walls closely fitting over the corresponding walls of said bottom portion and fixedly pivoted to said bottom portion by pins passing through the rearward extremities of the corresponding side walls, the side walls of the cover being narrowed and upwardly curved rearwardly toward said hinge pin, one of said walls of said bottom portion having an elongated substantially rectangular notch extending downwardly from its upper edge whereby the lower edge of one of the lateral walls of said cover will pass closely across said notch with a gradual shearing action as said cover is forced downwardly over said bottom portion.

2,655,260
COMBINED GIFT BOX AND GREETING CARD CARRIER
Jean Clerc, Detroit, Mich.
Application March 28, 1949, Serial No. 83,796
2 Claims. (Cl. 206—45.34)



1. A combined gift box and greeting card carrier comprising two sheets of transparent plastic material, positioned one above the other, the lower of said sheets being cut and folded to form a false bottom and double side walls, the other said sheet being folded to form a bottom, side walls and end walls, each double side wall of the first sheet being positioned with a single thickness on either side of one of the side walls of said second sheet, a transverse groove formed on the bottom portion of said second sheet cooperating with a mating element formed on the bottom portion of said other sheet, whereby to prevent the longitudinal movement of said sheets, the bottom portions of said sheets being spaced from one another to define an area for receiving a greeting card, said greeting card receiving area being accessible from one end of said box.

2,655,261
COSMETIC CONTAINER
Stephen J. Clark, Cheshire, Conn.
Application January 30, 1951, Serial No. 208,577
5 Claims. (Cl. 206—56)



1. A cosmetic holder comprising a tubular casing of plastic material provided on its interior for the greater part of its length with a continuous spiral groove, a cosmetic cup located in the casing and capable of rotative and advancing and retracting movement therein, a spiral coil spring within the casing, a rotative operating head on the rear end of the casing, one end of the coil spring being attached at the rear end of the cosmetic cup, the portion of the spring adjacent to said end being in constant engagement with the spiral groove, the operating head having a transverse slot, the second end of the spring engaging therewith whereby rotation of the head will cause the spring to move through the spiral groove in the casing and advance or retract the cosmetic cup.

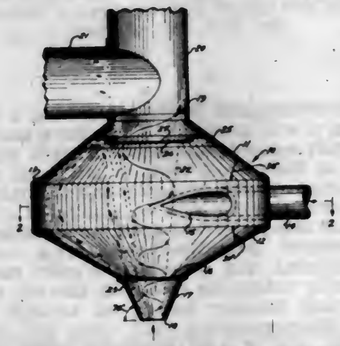
2,655,262
CONTAINER FOR COILABLE MATERIAL
Ernest H. Lewis, Beverly Hills, Calif., assignor to The Patent and Licensing Corporation, New York, N. Y., a corporation of Massachusetts
Application November 4, 1948, Serial No. 58,226
3 Claims. (Cl. 206—59)



1. A container for coilable material formed from an integral sheet of fibrous sheet material and comprising a hollow triangular core formed by three integral body panels, consisting of two end body panels and an intermediate body panel, and a flap integral with one of said end body panels and overlapping the other of said end body panels, side panels formed at opposite ends of each of said body panels and extending outwardly of the core in planes substantially at right angles to the axis thereof, and flaps integral with each of said side panels and lying in planes spaced from and substantially parallel to the plane of the respective body panels and of sufficient length to substantially overlap.

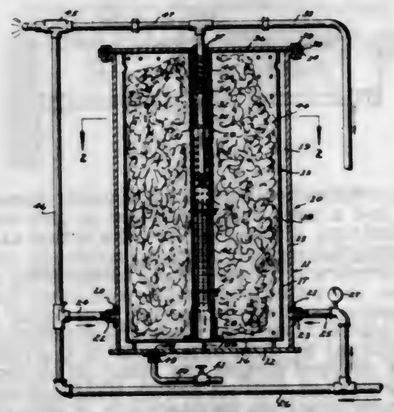
2,655,263
ORE PULP CONCENTRATOR
Gilbert G. Chisholm, Lucan, Ontario, Canada, assignor to Ferros Metals Research Company Limited, Toronto, Ontario, Canada
Application October 12, 1950, Serial No. 189,867
1 Claim. (Cl. 209—211)

An ore pulp concentrator adapted to form a substantially unrestrained fluid vortex with the ore pulp injected thereinto and comprising, in combination: a cylindrical collar member; a pulp injector nozzle mounted tangentially on the said collar member and adapted to direct an ore pulp tangentially into the interior thereof; a tailings cone and a concentrate cone having a common axis and extending respectively from said collar member to define a tailings opening of predetermined diameter and a concentrate opening of substantially lesser diameter; a tailings outlet pipe mounted exterior of and adjacent to said



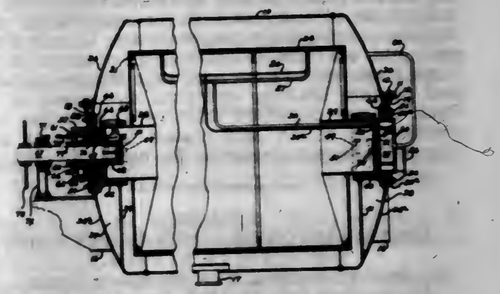
tailings opening and extending substantially at right angles from said common axis; and a surge pipe of a diameter corresponding to the diameter of said tailings opening communicating between the latter and said tailings outlet pipe, co-axial with said cones and extending beyond said tailings outlet pipe to serve effectively as a continuation of said tailings opening substantially non-restrictive to a vortex formed in the concentrator between the concentrate opening and the tailings opening thereof.

2,655,264
WASTE-PACKED OIL FILTER
Herbert C. Thorne, Vinton, La.
Application December 21, 1950, Serial No. 202,062
2 Claims. (Cl. 210—131)



1. An oil filter comprising a casing including a bottom and an upstanding wall having the lower end secured to said bottom, opposed inlet ports being provided in said upstanding wall intermediate the lower and upper ends thereof, a cartridge comprising a bottom and a perforated upstanding wall disposed upon and having the lower end secured to the last named bottom positioned within said casing, the upper end of the cartridge upstanding wall being flush with the upper end of the casing upstanding wall with the bottom and upstanding wall of said cartridge being spaced from the bottom and upstanding wall of said casing and defining an oil receiving chamber, a closure bridging the upper ends of said casing and cartridge upstanding walls and secured to said upstanding casing wall, an upstanding collar positioned within said cartridge and secured to the cartridge bottom, an upstanding perforated tube positioned within said cartridge and having the lower end threadedly engaged with said collar, a screen surrounding and secured to said tube and forming with the perforated upstanding cartridge wall a space for the reception of a mass of waste filtering material therein, and an outlet means exteriorly of said casing and in communication with said tube adjacent the upper end of the latter.

2,655,265
CONTINUOUS ROTARY PRESSURE OR VACUUM FILTER
John W. Little, Birmingham, Ala., assignor to Gealin-Birmingham Manufacturing Company, Inc., a corporation of Alabama
Application January 31, 1949, Serial No. 73,688
9 Claims. (Cl. 210—206)

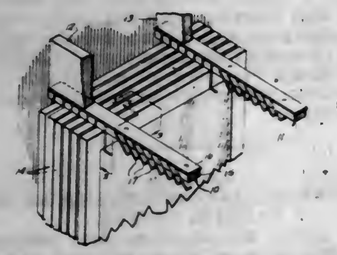


6. In a continuous rotary filter, a closed casing having end walls and forming a tank for the material to be filtered, a rotary filter assembly having trunnions at each end thereof, one of said trunnions having axially disposed filtrate passages therein, bearings for the trunnions fixedly mounted inside the casing, a filtrate valve embodying a body portion fixedly secured to an end wall of the casing concentric with the trunnion having the fluid passages therein, means yieldably urging the entire filter assembly toward the fixedly secured valve body portion thereby holding the filtrate-passage-containing-trunnion in endwise contact with said fixedly mounted filtrate valve body, means to rotate the filter assembly, and means to introduce material to be filtered into the casing.

2,655,266
SASH RACK
Henry F. Weltz, Shawano, Wis.
Application October 19, 1951, Serial No. 252,017
3 Claims. (Cl. 211—13)

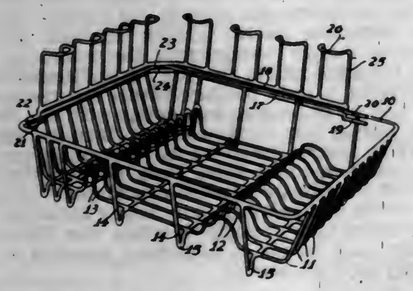
1. A sash rack assembly comprising a least two structures adapted to be horizontally mounted in substantially parallel and coterminous relationship to each other and each comprising an elongated bar of rectangular cross-sectional shape having an outwardly extending flange along one edge thereof and apertures extending transversely therethrough at spaced apart locations therealong at the inner side of

said flange, and hooks extending one through each aperture, each of said hooks including an elongated shank, an intermediate portion having a length substantially equal to the width of said bar and extending perpendicularly from one end of said shank and through the corresponding aperture in said bar, a sash-engaging end portion extending from the other end of said shank portion with its longitudinal center line substantially perpendicular to a plane including the center lines of said shank and said inter-



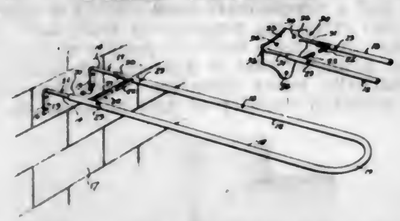
mediate portion and having a length less than the thickness of a sash to be suspended from the rack, and a flange-engaging end portion extending from the end of said intermediate portion remote from said shank with its longitudinal center line substantially perpendicular to said plane, said end portions extending in opposite directions from said plane and said flange-engaging end portion limiting swinging movement of the hook in one direction relative to said bar to a position in which said shank is disposed substantially perpendicular to the bar.

2,655,267
COMBINATION DRAINER BASKET AND RECEPTACLE SUPPORT
Paul H. Planeta, East Hampton, Conn.
Application July 21, 1952, Serial No. 300,079
16 Claims. (Cl. 211—74)



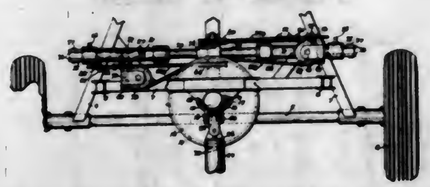
14. A detachable supporting rack to be attached to a rack member of wire construction having a rim member, said supporting rack including a pair of closely vertically spaced parallel rod-like elements for receiving said rim member therebetween, a plurality of transversely upwardly extending supporting elements attached to said rod-like elements, said plurality of transversely extending supporting elements comprising inverted U-shaped members having the legs secured to said rod-like elements, said rod-like elements having a shape substantially like that of said rim member and having end portions at each end formed to secure said supporting rack to said rim member.

2,655,268
EXTENSIBLE RACK
Arthur G. Whaley, Oak Harbor, Ohio
Application December 23, 1949, Serial No. 134,673
1 Claim. (Cl. 211—87)



An extensible rack device comprising a bracket including a wall attachment structure and a pair of laterally-spaced elongated bracket members secured at their inner ends to said wall attachment structure and disposed substantially perpendicularly thereto, and an elongated substantially rigid one-piece U-shaped rack member having elongated laterally-spaced arms telescopingly engaging said elongated bracket members and slidably extensible relatively thereto, said U-shaped rack member having an arcuate bridge portion interconnecting said arms and integral therewith, one of said members being tubular and overlying the other member, the inner end portions of the arms of said U-shaped member having integral article-retaining fingers secured perpendicularly thereto and disposed substantially in the plane of said U-shaped member, said fingers projecting from said arms toward one another, the length of said U-shaped member being a plurality of times the width thereof measured between said arms.

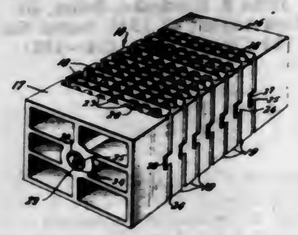
2,655,269
BUCKET CARRYING TURN POST FOR DIGGERS
Daniel F. Przybylski, Winona, Minn.
Application February 26, 1951, Serial No. 212,774
1 Claim. (Cl. 212—66)



The combination with a horizontally disposed frame and a large pulley mounted to turn about a vertical axis, of a pair of reversely acting axially aligned horizontally disposed hydraulic rams, each including a cylinder and a cooperating piston rod, the piston rods of the two rams being in opposing relation, a coupling connecting the piston rods at their outer ends, the cylinders being anchored at their outer ends to the frame, a cable wrapped around the pulley at its intermediate portion with its end portions extending in opposite directions longitudinally of the cylinders, a pair of directional sheaves jointed to turn about vertical axes, and anchored relative to the frame, one inwardly of the outer end of each cylinder, a second pair of directional sheaves, one on each side of the coupling and journaled thereto to turn about a horizontal axis, the end portions of the cables being arranged to run one over each of the first-noted directional sheaves and thence over one of the

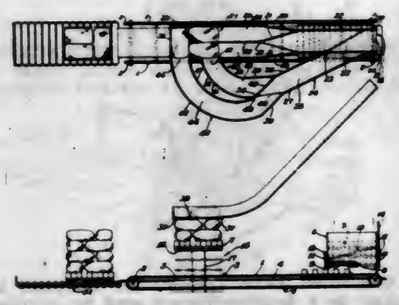
last-noted sheaves, the end portions of the cable outwardly of the last-noted sheaves extending in opposite directions substantially parallel to the rams and anchored to the frame.

2,655,270
DRAFT GEAR
Herbert E. Tucker, Chicago, Ill., assignor to Cardwell Westinghouse Company, a corporation of Delaware
Application April 30, 1951, Serial No. 223,747
5 Claims. (Cl. 213—45)



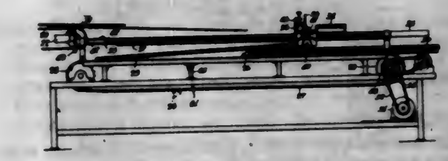
1. A draft gear including a series of resilient elements made of a mounting plate and rubber blocks at each side thereof, said resilient elements alternating with spacer plates having normally spaced apart aligned marginal flanges, and interlocking means associated with said flanges and including interengaging notches and projections to interlock said spacer plates and hold them in alignment.

2,655,271
BAG PALLET LOADER
Earl S. Cole and Herbert D. Vanderlip, Battle Creek, Mich., assignors to Kellogg Company, Battle Creek, Mich., a corporation of Delaware
Application August 26, 1949, Serial No. 112,636
12 Claims. (Cl. 214—6)



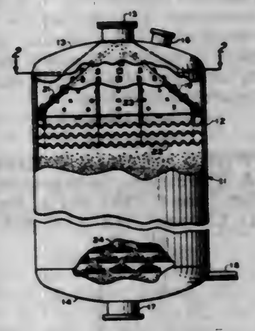
1. A bag pallet loader which comprises in combination a substantially rectangular receptacle for receiving a plurality of loaded bags, said receptacle having adjacent sides at substantially right angles to each other, a removable bottom for said receptacle for supporting said bags, means for guiding a plurality of loaded bags to predetermined coplanar positions within said receptacle and supported upon the bottom thereof, said means connecting into said adjacent sides of the receptacle, means for supporting a pallet beneath said receptacle, said bags being dischargeable from said receptacle to the pallet carried therebeneath by removal of said receptacle bottom.

2,655,272
SHEET STACKING AND DELIVERING MACHINE
Nicholas McClure, Chicago, Ill., and Samuel D. Stacy, Grand Rapids, Mich., assignors to American Box Board Company, Grand Rapids, Mich., a corporation of Michigan
Application May 14, 1948, Serial No. 26,948
10 Claims. (Cl. 214—8.5)



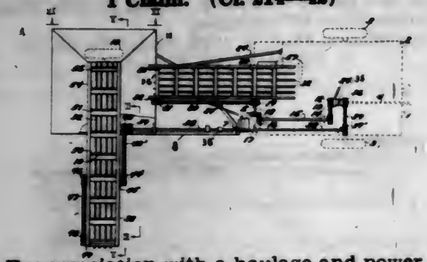
3. A machine for stacking and delivering stiff sheets, which includes a table onto which the sheets are delivered in succession to form a stack, a stop in the path of movement of said sheets and spaced at a predetermined elevation above said table, a pusher movable over said table and beneath said stop to push out a batch of sheets from the bottom of the stack, a motor for operating said pusher to move it lengthwise across the table and back beneath the table, a switch for starting said motor when the batch reaches a predetermined height, and means for stopping said motor with said pusher beneath the table.

2,655,273
METHOD AND APPARATUS FOR EVENLY DISTRIBUTING SOLID CONTACT MATERIAL
Robert D. Snow, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application November 7, 1949, Serial No. 125,966
12 Claims. (Cl. 214—17)



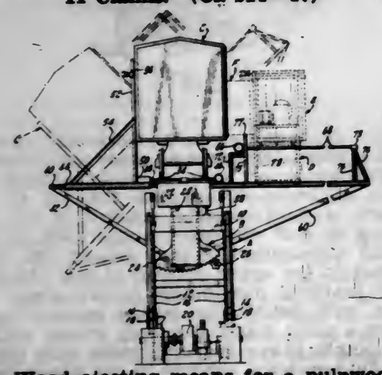
1. An improved upright fluid-solid contact chamber which comprises an outer shell closed at its upper and lower ends; a solid material inlet conduit centrally disposed in the top of said chamber; a fluid material conduit in the bottom end of said chamber; a plurality of solid material distribution screens spaced one above the other in the upper portion of said chamber; a solid material distribution means above said screens, said distribution means communicating between a solid material supply source and selected points above the uppermost said screen; and a fluid material conduit in the upper end of said chamber.

2,655,274
CROP HARVESTING EQUIPMENT
Alfred B. Lowe and Raymond A. Lowe, Oak Harbor, Ohio
Application October 31, 1949, Serial No. 124,556
1 Claim. (Cl. 214—42)



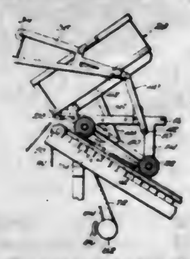
For association with a haulage and power supplying tractor, a trailing harvester having a deck, and crop disposal means for the harvester, said means comprising a hopper-providing cart, a pivot joint providing a trailer hitch directly connecting the cart to the harvester, said cart being spaced from the tractor by the harvester, there being an aft-extending power takeoff from the tractor to the harvester, a first endless conveyor mounted on the deck aft of the tractor, a first transmission connection on the harvester from the power takeoff to the first conveyor, a hopper emptying second conveyor mounted on the cart, said second conveyor having a horizontal reach first section providing a bottom for the hopper and therefrom an upwardly inclined elevator reach section extending to overhang laterally from the cart, said first conveyor extending aft from the deck and beyond the joint with first conveyor discharge directly upon the horizontal reach first section of the second conveyor, a second transmission connection extending from the power takeoff on the harvester to the second conveyor on the cart, said second transmission connection including a joint forward of the aft portion of the first conveyor and in proximity to the trailer hitch in conforming the second transmission connection to adapt to swinging of the cart in harvester transit, and a control on the harvester operable independently of tractor transit, for rendering said second conveyor operable whether or not the tractor and harvester be in transit, whereby the hopper cart may have discharge therefrom selective.

2,655,275
PULPWOOD BOXCAR UNLOADER
Caney A. Thompson, Georgetown, S. C.
Application June 6, 1951, Serial No. 230,219
11 Claims. (Cl. 214—47)



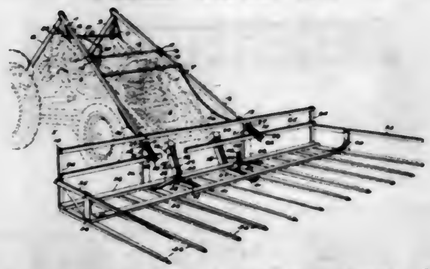
11. Wood ejecting means for a pulpwood box car unloader having a loaded box car secured thereon and comprising a primary carriage located adjacent the box car and movable laterally with respect thereto, a secondary carriage reciprocably mounted on said primary carriage, a ribbed baffle extending from said secondary carriage, means to move said primary and secondary carriages and said baffle bodily toward or away from the box car, and means to reciprocate said secondary carriage and baffle with respect to said primary carriage.

2,655,276
DUMP CAR FOR INCLINED TRACKS
John J. Brodeske, Joliet, Ill.
Application August 23, 1949, Serial No. 111,789
15 Claims. (Cl. 214—103)



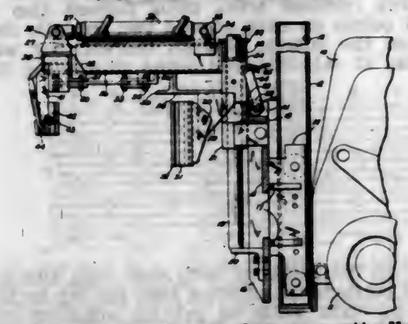
1. A dump car comprising a frame, supporting wheels mounted on the frame, a body, means for emptying the body mounted thereon, said means requiring more operating power for actuation than is required to pull the car on its wheels, means actuatable by a straight line pull for operating the emptying means and located beneath the car between the wheels, and means on said last-named means for holding the end of a tow line.

2,655,277
RAKE ATTACHMENT FOR TRACTORS
Florian J. Gebauer, Akron, Ohio
Application January 15, 1951, Serial No. 206,098
1 Claim. (Cl. 214—140)



A combined rake and loader adapted to be attached to a tractor frame and boom thereof, comprising a rake frame including spaced parallel forwardly extended side bars, a tine frame forming a part of the device, to which said side bars are slidably connected adjacent to the upper edge of the tine frame, tines extending forwardly from the tine frame, brackets pivotally connected to the boom of the tractor and tine frame adjacent to the lower edge thereof, a yoke forming a part of each bracket, said yokes straddling said booms beyond the pivot points between the brackets and boom, providing stops restricting tilting movement of the tine frame with respect to the boom, and yieldable means embodying spring arms connected to certain of the tines bearing against the brackets tilting said tine frame and tines towards the ground.

2,655,278
BARREL TOP GRAB MECHANISM
Lee C. Daniels, Harvey, Ill., assignor to Towmotor Corporation, Cleveland, Ohio, a corporation of Ohio
Application December 21, 1950, Serial No. 202,401
6 Claims. (Cl. 214—653)



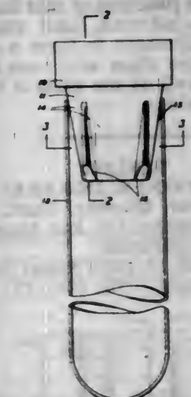
1. In a lift truck embodying a vertically movable carriage, a barrel grab mechanism therefor comprising a guideway mounted on the carriage for pivotal movement in a horizontal plane, a grab shoe supported by the carriage and movable with said guideway, a plunger in said guideway, a hydraulic cylinder mounted on said guideway, a piston therein attached to said plunger for reciprocative movement therein, a second guideway mounted on the end of said plunger in normal relation thereto, slide bars therein, arms depending therefrom, grab shoes pivotally mounted thereon, bellcranks fulcrumed on said second-named guideway, links intermediate said slide bars and the shorter ends of said bellcranks, and links intermediate the other ends of said bellcranks and the first-named guideway, said links and said bellcranks being arranged to effect the convergent and divergent movement of the grab shoes on said arms toward and away from the first-named grab shoe during the reciprocative movement of said plunger.

2,655,279
NURSING APPLIANCE
Andrew Wolf, Cleveland, Ohio, assignor to Mary Isabell Wolf, Cleveland, Ohio
Application October 11, 1951, Serial No. 250,830
1 Claim. (Cl. 215—11)



A device of the class described including in combination a nursing bottle, a nipple secured to the open end of said bottle, means for securing the nipple to the bottle, said nipple having an outwardly extending annular flange overlying the neck of the bottle and engageable by said securing means, said nipple also having an annular depending flange extending into and spaced from the neck of said bottle, said depending flange having an inwardly opening groove, a disk disposed transversely within and supported by said annular depending flange thereby to provide a fluid reserve chamber in said nipple and to separate said chamber from the interior of the bottle, said annular depending flange having the inwardly opening groove for receiving and retaining the periphery of said disk and thereby support said disk within said flange, said disk having an opening therethrough, and a tube extending through said disk opening and communicating said nipple chamber with said bottle chamber whereby suction on said nipple will cause fluid in said bottle chamber to pass into said nipple chamber.

2,655,280
BUNG OR STOPPER
John R. Cuttell, Banstead, and Thomas R. Ashton, Eltham, London, England, assignors, by direct and mesne assignments, to Astell Laboratory Service Company Limited, London, England, a British company
Application March 31, 1950, Serial No. 153,206
In Great Britain August 12, 1948
1 Claim. (Cl. 215—47)



A bung comprising a one-piece moulding of resilient material of cup shape form open at its upper end and closed at its lower end, said moulding having a closure part adapted to fit the interior open end of a container, a flange part at the outer end of the closure part said flange part being of greater radius than the closure part and an inner part having ribs which engage for a substantial distance the wall of the orifice of the container, said inner part between the ribs being of such reduced radial dimension as to be spaced from the container thereby providing for communication between the interior of the container and the exterior atmosphere when the bung is displaced partly out of the orifice of the container while the ribs remain in contact with the interior surface of the orifice, said ribs having a constant radius to fit the container over an axial length at least three times the axial length of said closure part, the resilience of the material of the bung in conjunction with the rib formation being arranged to enable the bung to be displaced partly out of the container by internal pressure without deformation of the ribs and without being pushed completely out of the container and to remain in such position to leave said recessed parts out of contact with the container to provide said communication.

2,655,281
ABSORBENT HOLDER
Edgar B. Davis, Tangerine, Fla.
Application November 15, 1949, Serial No. 127,350
2 Claims. (Cl. 215—100.5)

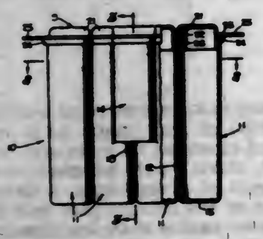
1. In a holder for a drinking glass, a cup-like body having a substantially cylindrical sidewall,

a bottom wall on the lower end of said sidewall and forming a bottom for said body, said body being open at its upper end, an upwardly flaring rim on the upper end of said sidewall, said body being larger in diameter than the glass to be received therein, and an absorbent deformable ring seated on said rim, said rim having a downwardly tapering outer surface supportably rest-



ing upon said rim and an inner surface, said inner surface being nearly perpendicular, said ring having an annular lower edge portion depending below the junction of said flaring rim and the holder body sidewall, said ring being arranged to be compressed to form a seal between the sidewall of the glass and said rim and the holder body sidewall as the glass is forced downwardly into the holder.

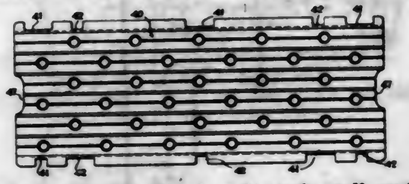
2,655,282
CONTAINER AND SEAL
Norman R. Dunbar, Downey, Calif., assignor to Elden Manufacturing Co., Los Angeles, Calif., a corporation of California
Application June 11, 1951, Serial No. 230,925
4 Claims. (Cl. 220—21)



4. In a device of the class described, the combination of: a compartmented container shell formed of relatively rigid material, the shell having walls defining a plurality of generally oval-shaped compartments disposed side by side and connected by integral webs, the walls also defining a single smaller compartment having a different shape, the upper ends of all of the compartments terminating in the same plane, a removable cover formed of flexible material and having individual sealing caps for each of the compartments, the sealing caps being connected by flexible webs, each of the sealing caps having a continuous skirt extending into its respective compartment and engaging the wall thereof to form a seal, and interengaging lip and rim means connecting the cover and the shell.

2,655,283
BOX CONSTRUCTION
Verne G. Meldt, Trenton, N. J., assignor to St. Regis Paper Company, New York, N. Y., a corporation of New York
Application July 26, 1951, Serial No. 238,668
4 Claims. (Cl. 229—32)

1. A tote box or the like formed with side walls which incline outwardly from the lower edges toward the top edges thereof thereby making the side walls flare outwardly to facilitate nesting of such boxes, at least two protuberances being formed at spaced points on each of two opposite side walls on the insides thereof, such protuberances terminating at a level intermediate the bottom and top of the box to provide supports for another like box in nested position, at least two recessed areas being formed also at spaced points on each of said two opposite side walls on the outside of each thereof, the wall material at said recessed areas protruding in-



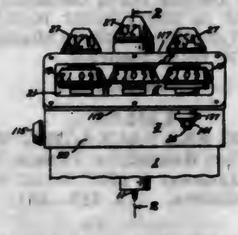
wardly on the inside of each such wall and including portions terminating near the top on the inside of such walls to provide supports for another like box to rest upon, each one of said protuberances being opposite one of said recessed areas on the opposite wall, whereby another like box may be either supported in nested position as aforesaid with the corresponding recessed areas in nested relation, or when such other box is turned horizontally through an angle of 180° it may rest as aforesaid at a higher level.

2,655,284
RADIATOR PRESSURE CAP
Anton W. Kemchan, Berwyn, Ill.
Application March 15, 1951, Serial No. 215,795
5 Claims. (Cl. 220—44)



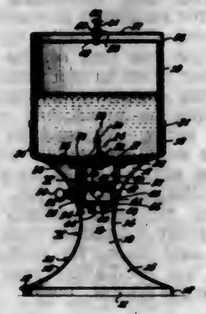
1. In a radiator cap assembly including an outer, dished cap body for detachable locking engagement with a radiator neck having a shoulder on its inner end defining a filler opening which also serves as a pressure relief valve opening, a hollow valve cage depending from said outer cap body for telescoping the radiator neck and comprising a shell dished in the opposite direction from the outer cap with a turned annular bottom flange at its inner end defining at its center a vacuum relief valve opening and supporting a spring urged valve closure in said opening normally in closed position, but automatically movable to open position in response to vacuum in the radiator, said flange having a portion radially outwardly extending and said valve cage being provided with a closure ring independent of the vacuum relief valve for yieldable and slidable cooperation with said neck shoulder to close the pressure relief valve opening when the cap is locked to said neck, said closure ring when seated also sealing the filler opening of said neck, and spring means bearing on the outer and upper end of the valve cage inside of the cap body for forcing said cap and its closure ring yieldably against said neck shoulder and independently of the central vacuum relief valve closure and means integral with said cap body for attaching the outer and upper end of the valve cage to the cap body.

2,655,285
LIQUID DISPENSING APPARATUS HAVING PROTECTED QUANTITY CONTROL MECHANISM AND COUNTER
Albert J. Granberg, Oakland, Calif.
Application January 3, 1950, Serial No. 136,563
8 Claims. (Cl. 222—26)



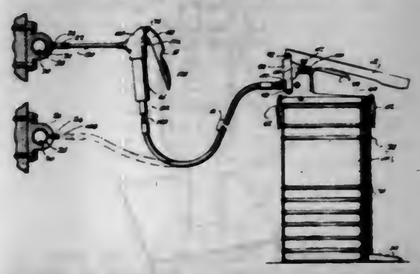
1. For use in a line employing a liquid meter and a spring loaded valve having a handle for adjusting said valve to a predetermined position; restraining mechanism adapted to hold said spring loaded valve in such a predetermined position against spring action of said valve, said restraining mechanism including a housing having aligned bearings, a releasable latch in said housing, a shaft journaled for rotation in said aligned bearings, means operatively coupling said shaft to said releasable latch, and means linking said valve handle to said shaft for rotating said shaft in response to adjustment of said valve to said predetermined position, said means involving a crank on one end of said shaft and a link intermediate said crank and said handle.

2,655,286
APPARATUS FOR DISPENSING FLUID
Anthony F. Barbaro, Glendale, Calif.
Application March 13, 1950, Serial No. 149,410
9 Claims. (Cl. 222—83)



1. An apparatus for dispensing measured amounts of syrup and the like from an original metallic can thereof, comprising: a support including a dished bottom wall for supporting circumferential bottom edge margins only of a can for rotation thereon in a plane transverse to the longitudinal axis of the can; a centrally disposed, upwardly directed hollow piercing element having an upper, triangular, wedge-shaped ported head provided with cutting edges, and a lower portion having undercut, downwardly and inwardly extending sides extending below the plane of the means for supporting edge margins of the can and arranged to cooperatively engage edges of a can bottom pierced by said head to dish the can bottom downwardly when a pierced can is partially rotated on said supporting means; means for rigidly positioning the piercing element with its widest portion substantially in the plane of the means for supporting edge margins of the can; a transparent gauge provided with a measuring valve; a hollow shank connecting the lower portion of the piercing head with the gauge; and sealing means carried by the shank and arranged to contact the bottom wall of a can pierced by the piercing head when said bottom wall is deformed by rotation of the can.

2,655,287
FARM BUCKET PUMP AND BOOSTER GUN
Thomas A. Campbell, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application January 13, 1949, Serial No. 70,724
15 Claims. (Cl. 222—123)



1. In lubricating apparatus of the class described, the combination of a main reservoir, relatively low pressure pumping means associated with and supplied from said reservoir, a flexible discharge conduit for said pumping means terminating in a coupler, an auxiliary reservoir attached to said coupler, a piston reciprocably mounted in said reservoir, a spring for urging said piston in one direction, a booster pump associated with said auxiliary reservoir, rigid discharge conduit for said booster pump, a second coupler mounted on the outlet end of said rigid conduit, a check valve interposed between said booster pump and said second coupler, and a spring for said check valve having an effective strength greater than said first-named spring whereby lubricant discharged by said low pressure pumping means must fill said auxiliary reservoir before being discharged through said second coupler.

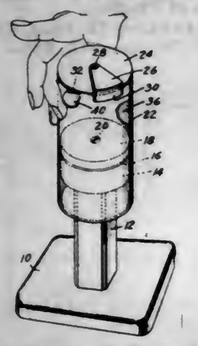
2,655,288
DISPENSER FOR CONDIMENTS OR THE LIKE
Louis Carette, Lynbrook, N. Y., assignor of thirty-three and one-third per cent to Robert Henderson, Summit, N. J.
Application December 21, 1951, Serial No. 262,686
7 Claims. (Cl. 222—142.3)



1. A dispenser comprising a group of upright, radially arranged containers, discharge-control-

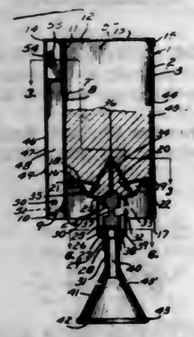
ling means associated with one end of said group, and flexible holding means associated with the other end of said group for releasably restraining said containers against lateral displacement; the said containers being incapable of material axial movement relatively to said discharge-controlling means and said holding means.

2,655,289
SANITARY CREAM DISPENSER
J Floyd Peal, Los Angeles, Calif.
Application December 22, 1950, Serial No. 202,358
4 Claims. (Cl. 222—162)



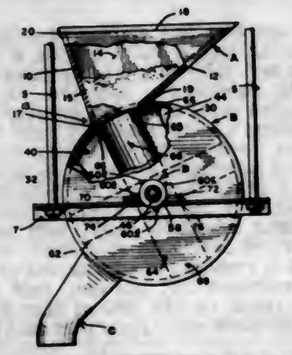
1. A sanitary dispenser for relatively heavy liquids, comprising a support, a combination plate and gasket on the support, a container adapted for slidable substantially liquid-tight relationship with the support and gasket, a liquid tight sealing cover at the outer end of the container, a dispensing slot on the side of the container adjacent the cover and a pivoted shiftable closure adjacent the slot, the closure being centrally pivoted at the top of the container, a depending lip on the closure, said lip fitting over the slot in the container, and a resilient sealing layer positioned on the inner face of said depending closure lip.

2,655,290
SOAP DISPENSER
Richard C. Mansperger, North Kansas City, Mo.
Application April 27, 1950, Serial No. 158,463
6 Claims. (Cl. 222—181)



1. A dispenser for powdered soap and the like comprising, a container having a bottom with an opening, a shell fixed on the bottom, a tubular member fixed to the lower end of the shell coaxial with the opening in the bottom, said shell and tubular member forming a discharge chamber below the bottom for receiving soap from the container, said tubular member having ports opening in the discharge chamber immediately above the lower end of the shell, a valve member slidable in the tubular member and opening in the bottom and having a coaxial bore open at the lower end of said valve member, and a peripheral groove in the valve member movable in and out of the container for metering soap and delivering same to the discharge chamber, said valve member having ports normally in registry with the ports in the tubular member for delivering soap from the discharge chamber through the bore of the valve member.

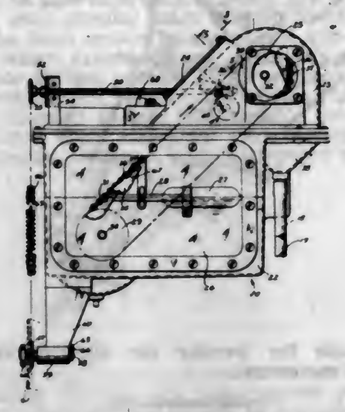
2,655,291
MEASURING AND PACKAGING MACHINE
John Carl Roundtree, Pampa, Tex.
Application January 4, 1952, Serial No. 264,990
2 Claims. (Cl. 222—181)



1. A measuring and filling machine of the class described including a supporting frame, a cylindrical casing mounted on the frame, a spout on said cylindrical casing, a feed hopper rotatable within the casing and having diametrically disposed outwardly projecting stub shafts on opposite sides thereof and extending through said casing, means for rotatably mounting said shafts on the frame, one of said shafts having a portion extending beyond the end of the frame, a cylindrical member fixed to said extended portion, said drum having diametrically disposed through passages constituting measuring compartments, said passages being disposed at substantially right angles to each other and arranged selectively to register with said hopper and said spout, means for oscillating said drum, said cylinder member having circumferentially spaced outwardly and radially extending lugs, and movable stop means on said frame for engaging said lugs so as to limit the oscillating movement of the drum relative to the frame.

2,655,292
STORAGE TANK AND CONVEYING MEANS FOR LIQUID MATERIAL
Frederick Otto Trump, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Original application September 28, 1945, Serial No. 619,109, now Patent No. 2,475,165, dated July 5, 1949. Divided and this application August 8, 1947, Serial No. 767,462
5 Claims. (Cl. 222—395)

1. A conveying system for liquid material having a storage tank from which liquid is to be conveyed at a varying rate to a point of delivery, comprising a plurality of buckets, means for successively and continuously transporting said buckets between said storage tank and said point of delivery at a varying rate of speed, said buckets being successively immersed in said liquid and tipped at said point of delivery, means for controlling the amount of liquid delivered within a predetermined time at any given rate of travel of said buckets, including means for tilting said



buckets prior to said tipping at the point of delivery and means for selecting the extent of tilt, whereby a desired portion of said liquid carried by each of said buckets is returned to said storage tank prior to the tipping of said buckets

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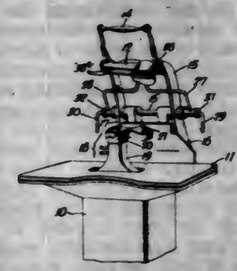
2,655,293
AUTOMATICALLY CLOSING CAP FOR COLLAPSIBLE TUBES OF CREAM
Vincent Lamagna, Rutherford, N. J.
Application August 4, 1949, Serial No. 108,528
4 Claims. (Cl. 222—511)



1. A collapsible tube cap having upper and lower ends and comprising two sections with recesses in confronting faces shaped and positioned to form a threaded socket for the end of the collapsible tube at the lower end of the cap, a channel in the surface at the upper end of the cap with undercut side walls and serving as a guideway, each of said walls being on a different section of the cap, said channel being open at both ends and also having a discharge opening through its bottom, a slide movable back and forth along the guideway for covering and uncovering the discharge opening, an upwardly extending flange at one end of the slide at a distance from the other end of the slide equal to the height of a tooth brush with which the cap is intended to be used and by which the slide can be moved with the tooth brush, said slide having an unobstructed top surface on the side of the flange nearest to the discharge opening so that a side of the tooth brush can be laid across the slide and moved toward the flange end of the slide, a downwardly extending lug under the slide, a socket in the cap below the slide in position to receive the downwardly extending lug of the slide, said lug being

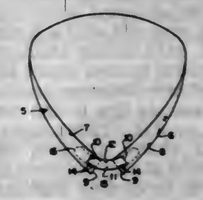
of a size to cooperate with the ends of the socket and thereby limit the stroke of the slide in both directions, a spring in the socket urging the slide towards closed position, said spring having a loop intermediate its ends, and fastening means securing sections of the cap together, one of said fastening means extending through the socket and through the loop of the spring for maintaining the spring at a fixed location within the socket.

2,655,294
SHOULDER PRESS MACHINE
Nicholas Sacchetti, Upper Darby, Pa.
Application June 14, 1950, Serial No. 167,941
6 Claims. (Cl. 223—57)



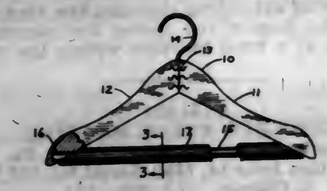
1. A buck for a shoulder pressing machine comprising a support, a hollow top mounted on said support, side walls for said top defining a rounded overhanging terminal portion spaced from said support, and a constricted neck portion between the terminal portion and the support.

2,655,295
COLLAR SUPPORT
John B. Ransom, Troy, N. Y., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y., a corporation of New York
Application July 18, 1951, Serial No. 237,323
12 Claims. (Cl. 223—83)



1. A collar support for shirts with attached collars, comprising a strip of flexible sheet material, of a length less than the periphery of a collar neckband having its end edges oblique to its side edges and converging, if extended, to a point at one side of the strip, the end portions of said strip having slits from face to face and generally parallel to but spaced somewhat from said oblique end edges and also spaced from the lower edge of said strip, and a separate coupler of transparent, sheet plastic material having widths, at its ends, less than the lengths of said slits in said strip and the coupler ends extending through said slits to couple said ends of said strip into an endless ring, the lower edge of said coupler being notched to provide teeth that hook over said strip at the lower ends of said slits in said strip and normally prevent separation of the ends of said strip.

2,655,296
GARMENT HANGER
Godfrey Karl Winzer, Evanston, Ill.
Application August 4, 1951, Serial No. 240,393
1 Claim. (Cl. 223—88)



A garment hanger comprising the usual hook and a pair of downwardly divergent arms, the lower ends of said arms being of substantial cross section and inclined at their opposing faces, said faces having their opposed inclined surfaces provided with axially aligned openings positioned adjacent their ends for the reception of the ends of a rod that inter-connects said lower ends, and an elongated tubular element fitted to said rod, said element having a frictional surface for engagement with garments to be suspended, said element having its ends beveled to match the inclined faces and substantially engaged therewith, whereby it will be held from rotation on the rod, said tubular element having means at least on its upper surface for gripping garments.

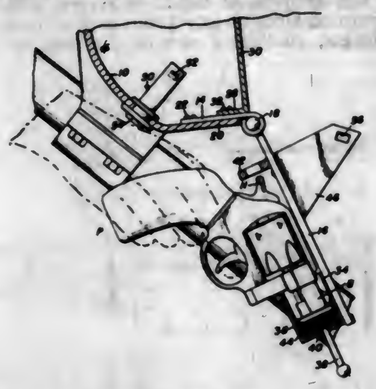
2,655,297
LACING NEEDLE FOR LEATHERCRAFT
Joseph G. Garibaldi, Saticoy, Calif.
Application October 12, 1950, Serial No. 189,782
4 Claims. (Cl. 223—103)



1. A leathercraft lacing needle comprising a long, narrow metal blank folded over along a midline with its sides adjacent each other providing a needle point at one end and a lacing anchorage at the other end, said lacing anchorage end having its adjacent sides spaced apart and split along the fold line a short distance providing an open throat having separate lips which diverge slightly from each other, and said blank sides being spaced from each other along the fold line extending from the end of said throat between said diverging lips to an opening extending through one side of said needle to provide a hollow tunnel, whereby a leather lacing may have a fine anchor wire secured to the end therethrough and said anchor wire may be inserted through said tunnel and through said opening in said needle to draw the end of the leather lacing into said throat between said lips, and then the free end of the anchor wire may be folded back toward the lacing to anchor the lacing within said throat to said needle.

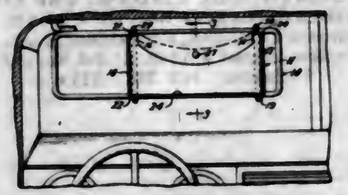
2,655,298
GUN CARRIAGE ATTACHMENT FOR VEHICLE DASH PANELS
John W. Riley, State College, N. Mex.
Application October 12, 1950, Serial No. 189,826
4 Claims. (Cl. 224—1)

1. A gun carriage comprising a mounting bracket, a support pivoted to said bracket for swinging movement, a sleeve mounted on said support for receiving the barrel of a pistol, a hammer seat on the support, means yieldingly retaining the hammer of a pistol in said seat,



and means for locking the support against swinging movement.

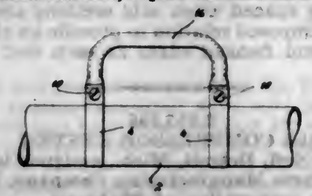
2,655,299
VISOR SUPPORTED POCKET FOR AUTOMOTIVE VEHICLES
Raymond B. Pfeifer and Leslie Gilbert Heyden, Chicago, Ill., assignors of one-third to Robert H. Wendt, Chicago, Ill.
Application November 29, 1950, Serial No. 198,128
2 Claims. (Cl. 224—29)



1. An attachment for an automobile sun visor, comprising a pair of endless coil springs adapted to extend about the sun visor transversely to its longest dimension, each spring being provided with a smaller tightly coiled end portion adapted to be threaded into the other end of the spring, the said springs being spaced from each other to support pencils, maps, and the like on the visor, and a translucent plastic envelope carried by said springs on one side of said visor, the said envelope comprising a substantially rectangular piece of plastic provided with a narrower flap at one end, said plastic being folded upon itself and having its end portions discontinuously fused together at spaced points, the said envelope being provided with slots extending inwardly at its fold at each end, leaving apertures between the folded portion of the envelope and the discontinuously fused end portions through which the springs pass, and the said shorter flap exposing open apertures at the upper edges of said envelope from which the springs emerge.

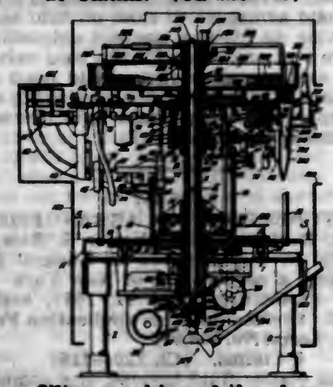
2,655,300
PIPE HANDLE ADAPTER
Fritz N. Willms, Tenasket, Wash.
Application April 6, 1951, Serial No. 219,679
1 Claim. (Cl. 224—45)

A pipe handle adaptor comprising a U-shaped handle member having a web portion and a pair of flange portions each of which has adjacent the web portion a first section which is circular in cross-section and terminates at a second section which is flat and straight and laterally disposed relative to the longitudinal axis of the first section, and a third section formed as a substantially semi-circular continuation of the second section; a pair of pipe clips each of which has a substantially semi-circular main portion located opposite the third section of one of said web portions, from which extends at one end a straight intermediate portion parallel to the second section of the web portion, and an end portion right angularly disposed to said intermediate portion and extending from the outer end thereof toward said second section; a pair of threaded bolts each



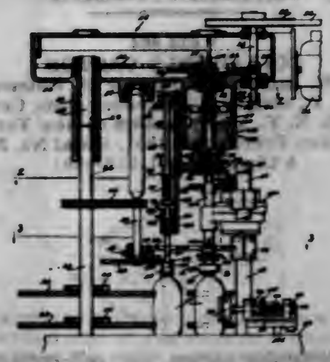
of which has a head portion and a shaft portion extending through the intermediate portion of one of said pipe clips as well as through the second section of one of said web portions; and a wing nut screwed upon the outer shaft portion of each bolt; the third sections of said web portions and the main portions of said pipe clips being adapted for partially encompassing sections of a pipe, and said bolts and nuts being adapted for tightening said pipe clips and the third sections of said web portions about the pipe, thereby the end portions of said pipe clips keeping the intermediate portions thereof in spaced relation to the second sections of said web portions.

2,655,301
CONTAINER HANDLING DEVICE WITH PLURAL CONTAINER MAGAZINES FOR FEEDING CONTAINERS TO THE HANDLING DEVICES IN FILLING MACHINES
John Riemer, Green Bay, Wis., assignor to Kraft Foods Company, a corporation of Delaware
Application June 28, 1946, Serial No. 680,309
10 Claims. (Cl. 226—49)



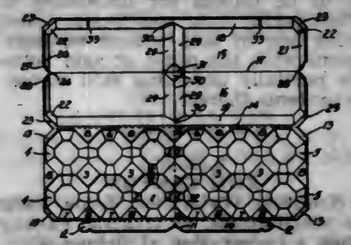
1. In a filling machine of the class described, a plurality of interconnected, travelling container handling devices movable successively through a predetermined path of travel, and a plurality of separate container magazines respectively associated in fixed relation with said handling devices and movable in unison therewith for delivering containers respectively to said container handling devices.

2,655,302
MACHINE FOR APPLYING SCREW CAPS TO CONTAINERS
John Hohl and Richard A. Pim, Toledo, Ohio, assignors to Owens-Illinois Glass Company, a corporation of Ohio
Application December 19, 1949, Serial No. 133,734
15 Claims. (Cl. 226—88)



1. A machine for applying screw caps to containers, comprising a container advancing device mounted for rotation about a vertical axis, means for rotating said device intermittently step by step and thereby bringing containers singly and in succession to a cap-applying station and advancing the containers one by one from the said cap-applying station to a cap-tightening station, a cap carrier mounted for rotation about a vertical axis, interconnecting gearing between the cap carrier and the container advancing device by which the cap carrier is rotated step by step concurrently with the step movements of the container advancing device, cap holding devices on the cap carrier positioned and arranged to bring the caps in succession to the cap-applying station and position the caps over and in register with the containers at said station as the cap carrier is rotated about its vertical axis, means for transferring the caps from said carrier downwardly onto the containers at the cap-applying station, and means at the cap-tightening station to grip the caps and rotate them to sealing position on the containers.

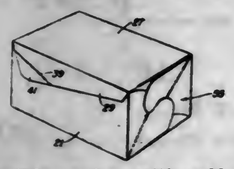
2,655,303
MOLDED PULP CARTON
John W. Cox, Chicago, Ill., assignor to General Package Corporation, a corporation of Delaware
Application March 28, 1947, Serial No. 737,891
11 Claims. (Cl. 229—2.5)



1. A molded pulp carton comprising a bottom section having upstanding walls, the space between the walls being divided into a plurality of article receiving cells, a cover-section comprising a top of an overall width corresponding to that of the bottom section, said top having pairs

of opposed side and end walls attached thereto and being traversed by a bend line between opposite margins thereof, at least two of said walls being in non-parallel relation in the unclosed position of the cover, said top being bendable along said bend line to shift said two walls toward parallel relation in the closed position of the cover.

2,655,304
COLLAPSIBLE CARTON
William H. Inman and Rayner M. Holmes, Newark, N. Y., assignors to Bloomer Bros. Company, Newark, N. Y., a corporation of New York
Application February 5, 1951, Serial No. 209,478
8 Claims. (Cl. 229—39)



2. A collapsible carton with self-erecting bottom comprising a one-piece blank cut, scored and folded to form four hingedly connected side walls, a detachable connection between two of said side walls including a securing flap hingedly connected to one of said side walls and having a detachable adhesive connection to another of said side walls with a free edge portion adapted to be grasped and pulled for detachably connecting said side walls together, said side walls having top and bottom closure flaps foldably connected thereto at the opposite ends thereof, said bottom flaps being arranged in pairs of opposed inner and outer flaps, each of said outer flaps being secured to the adjacent inner flap for forming the bottom of the carton in two sections, said sections being located on opposite sides of a hinge connection between adjacent side walls and on opposite sides of said detachable connection, said sections in their erected positions being normal to the side walls and frictionally engaging one another for holding said carton in the erected position, the outer flap in each of said bottom sections having a score line extending diagonally across said flap, said outer flaps being adapted to fold inwardly about said diagonal score lines upon relative lateral shifting of the side walls to their collapsed condition, locking means on two of said top closure flaps for releasably locking said top flaps in closed position in the erected position of said carton, said locking means being arranged for disengagement by detachment and unfolding of said side walls, said detachable connection being adapted to be broken for distending the side walls, disengaging said top locking means and for moving one of said bottom sections out of engagement with the other of said bottom sections for partially unfolding said carton to expose the contents thereof.

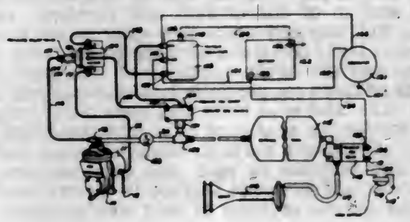
2,655,305
EGG CARTON
Paul K. Schilling, Waterville, Maine, assignor, by mesne assignments, to General Package Corporation, a corporation of Delaware
Application October 30, 1947, Serial No. 783,021
6 Claims. (Cl. 229—44)

2. A carton for fragile articles including two elongated sections, said sections comprising tray shaped bodies having flanged encircling edges, the longitudinal edge of one section being connected hingedly to the longitudinal edge of the other section, the end portions of said flanged edges being off-set intermediate said longitudinal edge so that the flanged longitudinal edge on one side of each section is above the level of the



flanged longitudinal edge on the other side of each section, the off-set portions of the two sections being spaced when said sections are folded into superimposed relation to provide an air space between said flanged edges at each end of said sections.

2,655,306
AIR COMPRESSOR SYSTEM
Henry W. Neff, Detroit, Mich., assignor to Power Brake Parts Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application April 19, 1951, Serial No. 221,817
4 Claims. (Cl. 230—4)

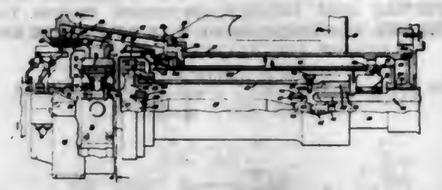


1. In a compressor system, a compressor, an electric motor for driving the same, a conductor for supplying current to said motor and including a pair of spaced contacts, an armature for bridging said contacts, a spring normally holding said armature away from said contacts, a solenoid adapted to attract said armature to said contacts, automatic means for intermittently energizing said solenoid, a fluid line extending from said compressor, a valve body in said line and having a valve seat, a valve head connected to and movable by said armature to close on said seat, said body having an exhaust passage extending from said valve seat and controlled by said valve head, whereby said armature moves said head off said seat when said solenoid is de-energized to connect said compressor through said fluid line and exhaust passage to atmosphere.

2,655,307
GAS TURBINE ROTOR ARRANGEMENT
Bruce O. Buckland and Chester S. Rice, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Original application June 11, 1947, Serial No. 754,002. Divided and this application February 1, 1951, Serial No. 208,961
6 Claims. (Cl. 230—116)

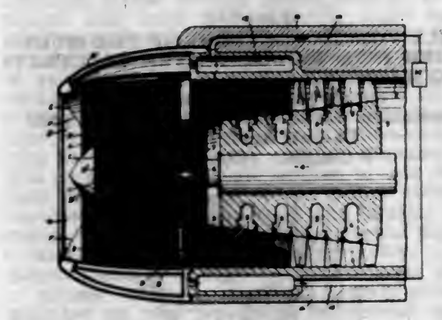
3. In an elastic fluid turbine, the combination of a frame with first and second axially spaced radial bearings and thrust bearing means axially spaced from one of the radial bearings, a rotor having at the respective ends thereof first and second axially extending portions projecting through and supported in said first and second radial bearings respectively, said rotor having a central axial bore extending entirely therethrough, a rotor locating stud slidably disposed

in the rotor bore and projecting from each end thereof, means connected to one projecting end of the locating stud for positioning it axially relative to the thrust bearing means, the other projecting end of the stud having a radially extending portion adjacent the exterior end of the sec-



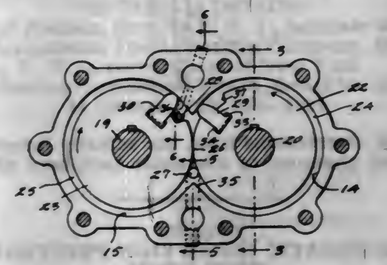
ond rotor end portion remote from the first bearing, and means associated with said last-mentioned stud and rotor end portions for adjusting the rotor axially relative to the stud whereby the rotor may be accurately positioned axially in said radial bearings relative to the thrust bearing and frame.

2,655,308
ANTIICING OF COMPRESSORS OF AIRCRAFT GAS TURBINE ENGINES
Horace Charles Luttman, Etobicoke Township, York County, Ontario, Canada, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada, a corporation
Application November 12, 1949, Serial No. 126,762
In Great Britain November 18, 1948
3 Claims. (Cl. 230—132)



1. In a rotary air compressor provided with a heat generating device and having an annular intake through which air is admitted, the said annular intake being defined by an outer peripheral wall and an inner body centrally located relative to the peripheral wall and spaced therefrom, the surface of the inner body being susceptible to the formation of ice thereupon, means transmitting heat from the heat generating device to the outer peripheral wall, a dark finish applied to the portions of the surface of the said inner body which are so located and formed that hypothetical lines extending normal to any point on the said portions will intersect the outer peripheral wall, a bright finish applied to the other portions of the surface of the inner body, a dark finish applied to the portions of the outer peripheral wall which are so located and formed that hypothetical lines extending normal to any point on the said portions will intersect the aforesaid portions of the surface of the inner body which have a dark finish applied thereto, and a bright finish applied to tthe other portions of the outer peripheral wall.

2,655,309
DUAL ROTOR COMPRESSOR
Samuel G. House and Oscar K. Hobbs, Abilene, Tex., assignors to J. F. Nevins, Annie Mae Glenn and Christine Glenn Teague, Abilene, Tex., as trustees
Application May 1, 1950, Serial No. 159,324
2 Claims. (Cl. 230—141)

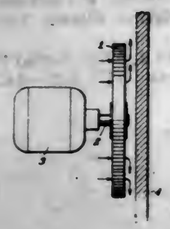


1. A valveless compressor comprising a housing formed with a pair of side-by-side cylinders having open inner sides and communicating at their sides with each other and having closed end walls, a rotor rotatably mounted in each cylinder between the end walls, said rotors being peripherally contacting and having a diameter substantially less than the diameter of the cylinders to provide an annular chamber about each rotor, each of said rotors having a smooth peripheral surface and being formed with a radially disposed slot opening through the periphery thereof, a piston slidably mounted axially in the slots and radially projecting from the periphery of the rotors, spring means biasing said pistons outwardly from the rotors into sweeping contact with the internal walls of the cylinders, means carried by the pistons and rotors limiting the outward movement of the pistons, each of said rotors having a peripheral cut-out adjacent its piston, the cut-out of one rotor being forward of its associated piston and the cut-out of the other rotor being located rearwardly of its associated piston relative to the direction of rotation of the rotors so that the pistons engage in the cut-outs as the rotors are rotated, said housing having an intake port opening through one end wall and constantly communicating with said chambers at one side of the point of contact of said rotors and said one end wall having an exhaust port at the other side of the point of contact of said rotors, one of the rotors lying over the exhaust port so as to close off the latter from communication with the chambers during a major portion of the cycle of rotation of said one rotor, the cut-out of said one rotor being in registry with said exhaust port during the remaining portion of the cycle of rotation of said one rotor to establish communication between the exhaust port and the chambers.

2,655,310
CENTRIFUGAL FAN
Peter Schlumbohm, New York, N. Y.
Application August 1, 1952, Serial No. 302,213
4 Claims. (Cl. 230—252)

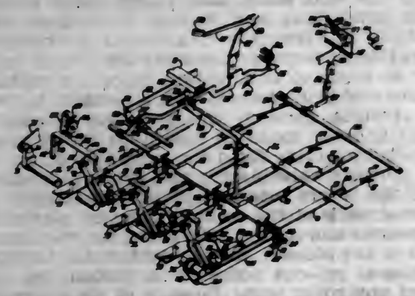
1. A centrifugal fan comprising a rotatable member with a center arbor for a driving shaft, said member comprising a disc of reticulated structure consisting of a multitude of tubular flow channels passing from one side of the disc to the other side and being open at both ends, said channels being parallel to the axis of rotation of said member, said fan structure further comprising a co-pumping wall equi-distantly

spaced from the open ends of said tubular channels at one side of said disc, and the space between the disc and the co-pumping wall being



free of obstructions from the radially innermost tubular channels to the outer periphery of the disc.

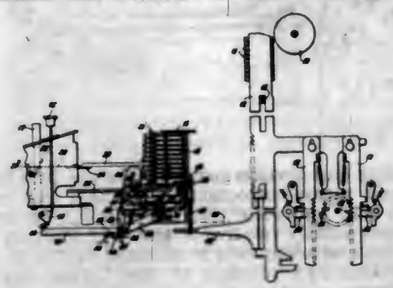
2,655,311
AUTOMATIC CLEAR SIGN PRINTING MECHANISM
Henry L. Pitman, Melbourne, Fla., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware
Application August 20, 1948, Serial No. 45,372
12 Claims. (Cl. 235—60.17)



1. In a computing machine adapted for printing amounts in a column on a work sheet and having a letter spacing carriage, a unit on said carriage for controlling various functions of the machine, a register comprising a plurality of axially aligned wheels, and a cycling general operator for running indexed amounts into the wheels of the register; the improvement comprising spring-operated sensing means for ascertaining the clear condition of the register, a pair of normally effective locks each of which is capable of preventing operation of said sensing means, means for releasing one of said locks at a predetermined columnar letter space position of the carriage, means for releasing the other of said locks during a machine cycle, and a clear sign printing train operable only when both of said locks are released and when the sensing means finds the register to be clear.

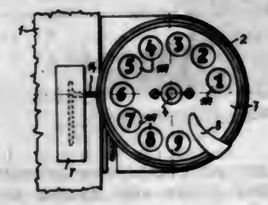
2,655,312
ITEM RETAINING MECHANISM FOR ACCOUNTING MACHINES
Walter A. Anderson, Bridgeport, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware
Application December 28, 1949, Serial No. 135,490
4 Claims. (Cl. 235—60.31)

2. A machine of the class described having, in combination, cycling means, a group of keys, a plurality of rows of key settable stops, a fixed stop, a plurality of type bars movable by said cycling means and normally controlled in one direction of movement by said stops, a totalizer, a total key, means slidably connected to said type bars, a frame, a lateral channel member in said frame, means mounting said channel member for movement in a direction parallel to the movement of said stops when they are set, a bracket laterally movable in said channel member and supporting said slidably connected means for movement into engagement with said stops, key



operated means for moving said bracket and said slidably connected means laterally in said channel member, connections from said total key to said channel member to move said channel member and thereby move said bracket and said slidably connected means to a position wherein said stops are ineffective to arrest said slidably connected means and said type bars, and means operative upon release of said total key to restore said slidably connected means into effective position with respect to said stops.

2,655,313
DEVICE FOR THE SETTING OF THE MULTIPLIER INTO MOTOR-DRIVEN CALCULATING MACHINES
Sergio Lanza, Savona, Italy
Application March 11, 1952, Serial No. 275,889
In Italy April 13, 1951
9 Claims. (Cl. 235—62)



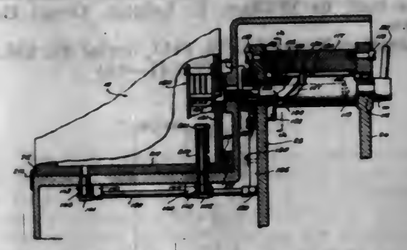
1. In combination with a key-set electric motor-driven calculating machine, provided with at least one shaft making one revolution for each addition effected by the machine and further provided with a member, hereinafter called "starting key," which in one position permits the operation of the calculating machine and in the other position stops same, a multiplier-setting device comprising a rotating member provided with nine or a multiple of nine active ratchet teeth, and briefly referred to as the "ratchet," a setting member adapted to directly shift said ratchet from a zero position by a number of teeth corresponding to the multiplier figure set into the machine, means connected with said setting member for setting the said starting key in operating position at the end of the setting of the multiplier figure, means for locking the said starting key in operating position while the said ratchet is in a position other than the zero one, means operated by a moving part of the calculating machine for moving said ratchet back of an angle corresponding to one unit at each revolution of the machine shaft, until the zero position is reached and means for unlocking the said starting key as soon as said ratchet has reached the zero position and for bringing said starting key to machine-stopping position.

2,655,314
YARDAGE READING DEVICE FOR ATTACHMENT TO REVOLVING WHEELS
Thomas A. Hutsell, Renton, Wash.
Application October 7, 1950, Serial No. 188,994
5 Claims. (Cl. 235—95)



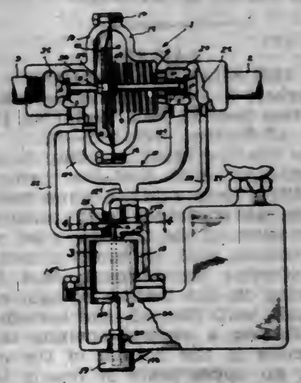
1. A distance measuring device for attachment to a revolving wheel, comprising: a base; a main shaft positioned on said base; three counter supporting shafts positioned on said base and concentrically disposed around said main shaft; first, second and third digit counting cones, each rotatably mounted on one of said counter supporting shafts; reset gear segments on each of said counting cones; driving plates secured to said second and third digit counting cones having pins positioned concentrically about the center of said driving plates, said driving plate secured to said second digit counting cone having an actuating arm for engaging said pins on said driving plate secured to said third digit counting cone; a first pulley secured to said first counting cone having an actuating arm for engaging said pins on said driving plate secured to said second digit counting cone; a second pulley rotatably mounted on said main shaft and flexible drive means connecting said first and second pulleys; a ratchet secured to said second pulley; a pendulum pivotally mounted on said main shaft; a spring pressed operating pawl pivotally mounted on said pendulum in position to engage said ratchet in one direction; a resilient pawl member secured to said base member in position to engage said ratchet in the same direction as said operating pawl; abutment members limiting the swinging of said pendulum in either direction; means for securing said base member to a wheel; a housing mounted on said base and covering said counting cones having windows therein for reading said counting cones; a reset knob outside of said housing and pivotally mounted on said main shaft; a cam plate member pivotally mounted on said main shaft and secured to said reset knob; a stop plate pivotally mounted on said main shaft; a bell crank pivotally mounted on said stop plate having a gear portion for engaging said reset gear segments in its outward position; means connecting said cam plate and said stop plate permitting limited relative rotative movement therebetween; a friction and stop clip mounted on said base and bearing on said stop plate and two stop portions on said stop plate to engage said friction and stop clip and limit the rotation of said stop plate; and a spring on said cam plate to urge said gear portion of said bell crank outward during rotation of said reset knob in one direction, and a cam portion of said cam plate member to engage the follower portion of said bell crank and urge said gear portion inward during rotation of said reset knob in the other direction.

2,655,315
OPERATIONAL LOCK MEANS FOR POSTAGE METERING DEVICES
Ernest Persson, New York, N. Y., assignor to The International Postal Supply Company, Brooklyn, N. Y., a corporation of New York
Application November 22, 1948, Serial No. 61,489
14 Claims. (Cl. 235—101)



1. In a metering apparatus including a metering mechanism, an enclosing casing therefor, a lock for the metering mechanism of the kind which locks on removal of the key secured inside of the casing, a keyhole for the lock, a base for the casing, a key supporting and actuating device built into the base comprising a manually rotatable sleeve having a helical cam slot cut therein, a key member having a shank portion disposed within the cam sleeve, means including a stationary guideway, a pin fixed to the key shank and extending through the cam slot into the guideway cooperating with the cam sleeve and controlled by the rotation thereof for inserting the key member into the key hole and thereafter rotating the same to operate the lock.

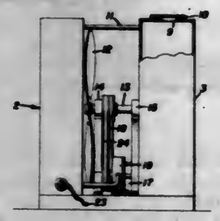
2,655,316
MIXING VALVE
Miles Lowell Edwards, Portland, Oreg.
Application March 27, 1950, Serial No. 152,156
7 Claims. (Cl. 236—12)



1. A mixing device comprising biased fluid motor oscillated inlet valves, a pulsing chamber, and a blending chamber, all joined in series; motor pilot means for actuating said fluid motor, said pilot means including a jet nozzle communicating with one of said inlet valves, a receiving nozzle means mounted opposite said jet nozzle

and connected to said motor for overcoming said bias, an interception vane movable between said nozzles, said jet and receiving nozzles and said vane all being mounted within said pulsing chamber, and sensing means in said pulsing chamber responsive to a deviation from the norm of the pulses therein for oscillating said vane into and out of the path between said nozzles, said blending chamber being physically separated from and larger than said pulsing chamber.

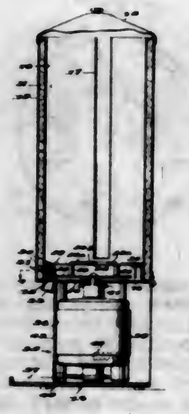
2,655,317
COMBINATION SPACE HEATER OR COOLER
Elzy O. Kunkel, Great Bend, Kans., assignor of one-half to William E. Leigan, Great Bend, Kans.
Application November 30, 1951, Serial No. 259,087
1 Claim. (Cl. 237—16)



In combination, a base, a heat exchange radiator rising from said base at one side thereof and having a top, bottom and sides, a water tank rising from said base at the opposite side thereof and spaced laterally from said radiator, a fan between said radiator and said tank mounted on said base for blowing air outwardly through said radiator, a pump on said base between said radiator and tank, a motor on said base operatively connected to said fan and pump, a heater in the bottom of the radiator at one side thereof, a water intake pipe extending from the bottom of the tank to the intake side of the pump, a water discharge pipe extending from the discharge side of the pump to the bottom of the radiator and same side as said heater and discharging directly opposite the heater, and a water return pipe extending from the top and opposite side of the radiator to the top of the tank.

2,655,318
ICE SHAVING MACHINE
Herbert G. Beyer, Baltimore, Md.
Application June 29, 1950, Serial No. 171,038
12 Claims. (Cl. 241—92)

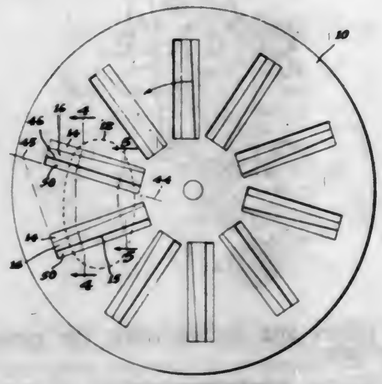
1. An ice shaving machine comprising an insulated container, said container being of vertical cylindrical form, said container having a removable top, said container having means for preventing rotation of ice therein, said container having a bottom wall, generally closed, with a discharge opening therethrough, said discharge opening being in the bottom of said container near the side wall thereof, the bottom of said container having a central opening therein, a rotor assembly in the bottom of the container comprising an upper plate of nearly the same diameter as the adjacent interior of the container, and a lower plate of smaller diameter affording an annular space thereabout, said plates being spaced apart by non-centrally located spacer elements of relative small diameter, said upper plate having ice shaving means therein for shaving particles from a charge of ice resting thereon and discharging the shaved ice to the space underlying said upper plate, said shaving means extending from the center of said plate substantially to the outer edges thereof, said assembly having in the annular space under said upper plate and outside the edge of the lower plate downwardly and rearwardly inclined sweep means for sweeping about the bottom of the container and to the outlet therefrom the shaved ice dropping into said annular space and centrifugally discharged thereto from said lower plate, said sweep means being in the form of downwardly inclined interfingering elements,



said container comprising, in said annular space, and adjacent the outlet opening therefrom, coacting ejecting means in the form of stationary inclined interfingering elements overhanging said discharge opening and coating with said sweep means for positively forcing downwardly through said discharge opening shaved ice swept thereto by said sweep elements, a cup-receiving vestibule underlying said discharge outlet and at least partly underlying said container, means for driving said rotor assembly, comprising a motor within the base of the machine, rearwardly of said vestibule, and a cup-actuable control for said motor located in said vestibule and underneath said container.

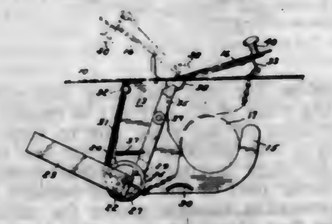
2,655,319
WOOD CHIPPER DISK WITH RADIALLY ORIENTED KNIVES OF GRADUATED BEVELS
Charles A. Johnsen, Berlin, N. H.
Application September 24, 1949, Serial No. 117,676
5 Claims. (Cl. 241—92)

1. In a rotatable planar chipper disc having cutting knives protruding from the face of said disc providing leading and following straight cutting edges diverging outwardly from the center of said disc at an acute angle to each other and lying in a common plane of revolution, and a slot through the disc adjacent the cutting edge of each knife, for cutting material fed end-on toward the disc at an angle to the plane of revolution of said cutting edges, that improvement which comprises having the outer surface of each knife extending backwardly from its cutting edge as a surface formed of a series of straight lines intersecting the line of the cutting edge at equal angles and inclined axially backwardly towards the face of said disc, the lines spaced radially outwardly having decreased inclination relative to the lines spaced relatively inwardly along said cutting edge, said outer surface forming with another surface of the knife its cutting edge, and the angle of inclination of said lines from the plane of revolution of the cutting edge forming at the cutting edge a straight-sided angle of draw which is larger adjacent the inner end of the knife than adjacent the outer end thereof, and being



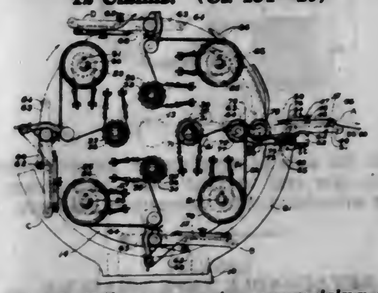
such that at least a substantial portion of said straight lines distributed radially along said cutting edge when extended enter the slot which lies adjacent the following knife beyond the leading edge of said slot the entire included zone of the angles of draw formed by said radially distributed straight lines which enter said slot being void between said cutting edges.

2,655,320
BOTTLE-BREAKER
John M. Westrate, Pleasant Ridge, Mich.
Application August 6, 1951, Serial No. 240,530
5 Claims. (Cl. 241—99)



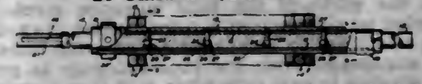
4. In a bottle-breaker hammer activation mechanism, a hammer swingable from a cocked position to an impact position, an axle swingably supporting said hammer and secured thereto for movement therewith, a wheel keyed to said axle, a spring tensioned around the periphery of said wheel to move said hammer from a cocked position to the impact position, a door, a chain attached to said door at a point spaced from its hinge and attached to the periphery of said wheel to rotate said wheel to move said hammer via said axle from the impact position to the cocked position and to wind said spring when said door is opened, a relatively smaller radial and circumferential segment on said wheel coacting with said spring and a relatively larger radial and circumferential segment adapted to coact with said chain so that the chain has a leverage advantage over said spring in rotating said wheel to render opening said door easier and to render hammer activation by said spring faster when said door is closed.

2,655,321
TIRE BUILDING APPARATUS
Frank S. Sternad, Cuyahoga Falls, and John P. Sapp, Kent, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application July 29, 1949, Serial No. 107,454
12 Claims. (Cl. 154—10)



1. Tire building apparatus comprising a rotatable reel for storing and delivering sheet material to a building drum, said reel comprising a rotatable frame having supports for a plurality of rolls of sheet material, means for rotating the reel step by step to present the rolls of material in succession at a feeding station, a feed table hingedly mounted on said reel, and means for effecting extension of said feed table from said reel at said feeding station and retraction of said feed table at other positions in the path of movement of said reel.

2,655,322
WINDING ARBOR
Harold R. Longfellow, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 6, 1950, Serial No. 160,543
10 Claims. (Cl. 242—72)

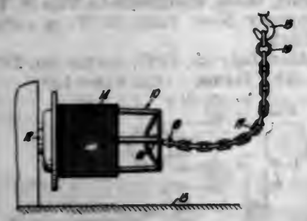


1. An arbor for winding flexible material into coils, which comprises an elongated element having a portion upon which coils of such material may be wound, said winding portion having opposed gaps in its winding surface and a transverse bore communicating with the gaps, an elongated segment mounted in one of the gaps of the winding portion of the element and movable generally transversely with respect to the element between a collapsed position and one in which the outer surface of the segment forms a continuation of the winding surface of the element, a thrust member mounted slidably in the bore for moving the segment with respect to the winding portion of the element, and means insertable in the other gap in the winding surface for forming a part of the winding surface of the arbor and for clamping the material to the element and for actuating the thrust member to move the outer surface of the segment into and out of alignment with the winding surface of the element.

2,655,323
BUNDLE TRANSPORTING DEVICE
Beresford O. Wiggan, Vallejo, Calif.
Application February 8, 1952, Serial No. 270,724
4 Claims. (Cl. 242—79)

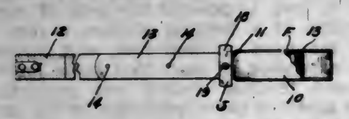
1. The combination, with a block which is supported from one end for rotation on a substan-

tially horizontal axis and a hoist hook, of a device for transporting bundles from said block comprising an eye swiveled to the unsupported end of said



block on its axis of rotation, a flexible element joined at one end to said hook, and means removably attaching said element to said eye.

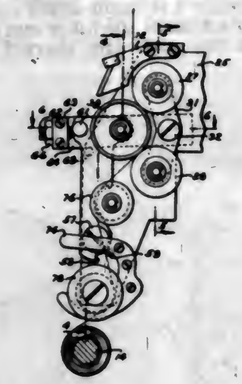
2,655,324
DETACHABLE TAPE MEASURE
Joseph L. Clark, Brooklyn, N. Y., assignor to The Lufkin Rule Company, Saginaw, Mich.
Application September 9, 1950, Serial No. 184,066
7 Claims. (Cl. 242—84.9)



1. In a measuring tape construction, a case having a tape entrance of predetermined width, a spring-powered wind-up means in said case, a strip anchored to said wind-up means provided with coupling means adjacent its free end for releasable coupling to a flexible measuring tape, said strip being of substantially the same width and thickness as the measuring tape, and a flexible, flat stop of greater length and less width than the width of the tape entrance pivotally mounted on the strip at a point spaced inwardly from said coupling means, said stop being releasably engageable with the tape entrance to prevent winding of said tape when said stop is swung to engaged position, and lying parallel with said tape when in disengaged position so as to be readily windable through said tape entrance.

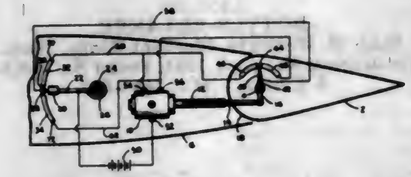
2,655,325
STRAND GUIDING AND TENSIONING DEVICE
Arthur Kuettler, Jr., Berwyn, and Fred Radakovich, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 5, 1949, Serial No. 119,586
6 Claims. (Cl. 242—151)

1. A strand tensioning device comprising a supporting plate, a pair of resilient rollers having strand engaging peripheries, a pressure equalizing member, means mounting said resilient rollers for rotation on said member about parallel axes and in predetermined spaced relation to each other, means mounting said member for pivotal movement on said plate about an axis intermediate said rollers, a nonresilient roller having a strand engaging periphery, means including an oscillatable supporting member pivotally mounted on said plate for rotatably supporting said nonresilient roller and for guiding said roller for movement into and out of peripheral engagement with said resilient rollers, and a latch member pivotally mounted on said plate and having an adjustable locking member thereon engageable with said supporting member for holding said nonresilient roller in engagement with said re-



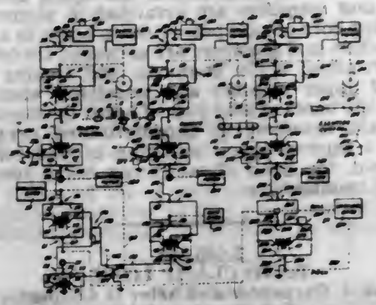
silient rollers and for adjusting the pressure therebetween.

2,655,326
GUST-ALLEVIATING FLAP SYSTEM FOR AIRCRAFT
Fred E. Weick, Calvert Hills, Md., assignor to Engineering & Research Corporation, Riverdale, Md., a corporation of Maryland
Application December 4, 1947, Serial No. 789,707
2 Claims. (Cl. 244—76)



1. A system for counteracting the effect of gusts on the wing of an aircraft to reduce vertical acceleration of the wing due to such gusts, comprising a flap pivoted adjacent the trailing edge of the wing having a normal position in which it forms part of the airfoil contour of the wing, a reversible electric motor for selectively moving the flap about its pivot axis to positions above and below its normal position to vary the lift of the wing, a mass suspended with respect to the wing for relative vertical movement from a normal position upward or downwardly with respect to the wing upon sudden vertical acceleration of the wing, means operable by relative movement of the mass with respect to the wing in one direction to cause the motor to rotate in a direction to move the flap upwardly away from its normal position within the airfoil contour of the wing and operable by relative movement of the mass in the opposite direction to rotate the motor in its opposite direction to move the flap downwardly, and means operable by movement of the mass to its normal position from a position away therefrom and while the flap is deflected from its normal position for reversing the direction of rotation of the motor to move the flap toward its normal position and operable upon movement of the flap to its normal position to deenergize the motor whereby movement of the flap is stopped.

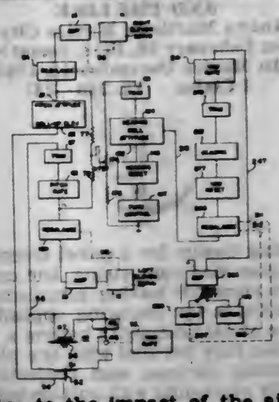
2,655,327
CONTROL APPARATUS FOR AIRCRAFT
William J. McGoldrick, Edina, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application June 7, 1948, Serial No. 31,493
6 Claims. (Cl. 244—77)



1. Control apparatus for an aircraft having control surfaces for controlling said aircraft about three respectively perpendicular axes and manually operable means for positioning said control surfaces, said apparatus comprising: a power means adapted for association with and for operating each axis control surface; a balanceable control means for each power means, each control means including a plurality of signal generators and a signal combining means; attitude responsive means movable from a normal position about one of said axes to operate a first signal generator in all of said control means; a second signal generator in each control means; positioning means for each second signal generator operated by each said control means while said respective power means is disassociated from its control surface to maintain said control means in balanced condition during attitude changes while the control surfaces may be manually operated; means for associating each power means with its respective control surface to maintain the existing position of the aircraft irrespective of its attitude; a follow up third signal generator in each control means operated by each power means; and means for rendering ineffective each second signal generator in its operated position to thereby render each control means subservient to its first signal generator and return the craft to the normal position.

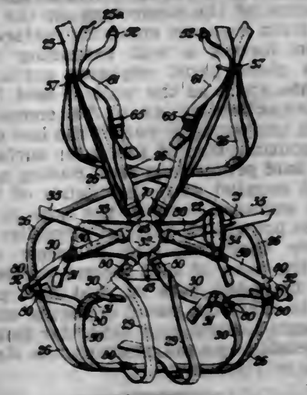
2,655,328
STEERING MECHANISM
Theodore K. Frystak, St. Louis Park, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application August 8, 1951, Serial No. 240,863
11 Claims. (Cl. 244—77)

5. Control apparatus for an aircraft having two pairs of control surfaces arranged in the trailing edge of the wings of said craft, said apparatus comprising: means for projecting one control surface of one of said pairs from the plane of the wing about an axis so as to receive on said surface an impact of the airstream and thus cause said craft to turn about its vertical axis; means responsive to the rate of turn of the craft about said axis; control means operated by said rate of turn responsive means; and further means operated by said control means for moving the other pair of control surfaces in a downward direction to exert a moment about the craft pitch axis to prevent gain in altitude by said craft from an upward moment by said one



surface due to the impact of the airstream on said one control surface.

2,655,329
PARACHUTE AND SEAT HARNESS
James Martin, Higher Denham, near Uxbridge, England
Application August 28, 1950, Serial No. 181,750
In Great Britain September 6, 1949
2 Claims. (Cl. 244—122)



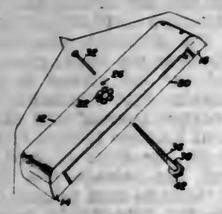
1. A combined harness for airman forming both a parachute harness and a seat harness permanently secured together as a unit construction and comprising a waist strap, a body harness strap, two lap straps, each lap strap being joined at one end to an intermediate part of the body harness strap, the lap straps and the body harness strap forming a combined strap having parts passing over the airman's shoulders and crossing diagonally over his back, plugs adjacent the connexions of the lap straps to the body harness strap plugging into releasable locks on a seat pan at each corner thereof and close to the airman, a six point harness release box on said waist strap, means on the ends of said body harness strap adjacent the release box for detachably securing said strap to said release box, means on the lap straps for detachably securing these to the release box, leg straps attached to the body harness strap, means at the ends of said leg straps for detachably securing these to the release box, back lift webs and front lift webs connected to said body harness strap, adjustment devices for said body harness strap and adjustment devices for said lap straps.

2,655,330
MOUNTING FOR PICTURES, MIRRORS, AND THE LIKE
Carlos Anaya Martinez, Mexico City, Mexico
Application February 26, 1951, Serial No. 212,819
In Mexico December 18, 1950
1 Claim. (Cl. 248—28)



A mounting means for a panel assembly of the character described comprising, the combination of a pair of elements having complemental confronting surfaces for engaging opposite faces of a panel, one of said elements having a projection with an outer face parallel with the plane of the panel engaging surface, said projection having an outwardly extending wall portion substantially at right angles to its panel engaging surface, and against which the edge of the panel assembly is adapted to engage, said projection having an opposite wall extending outwardly from the plane of the panel engaging surface at an acute angle and the element having a surface beyond said projection substantially in the plane of the panel engaging surface; said other element having a projection terminating in a plane parallel with its panel engaging surface at a distance beyond the panel engaging surface the same as the distance of the projection on the aforesaid element from its panel engaging surface and said projection having a wall extending outwardly from the plane panel engaging surface at the same acute angle as the wall of said first mentioned projection so as to be complementary therewith, the opposite wall of the last projection being a continuation of the outer surface of the element, said projections each having a bore beyond and parallel with the planes of the panel engaging surfaces thereof, the bore in the first mentioned projection being of a smaller diameter and screw threaded, and a screw extending through the bore of said second projection and into the threaded bore of said first projection adapted to draw the panel engaging surfaces of the elements toward each other for gripping the panel assembly and maintaining the elements in assembled relationship.

2,655,331
CHRISTMAS TREE SUPPORT
Norman A. Merritt, Wilmington, N. C.
Application December 10, 1951, Serial No. 260,890
1 Claim. (Cl. 248—46)



A Christmas tree holder comprising an upper elongated member, feet members adjacent the ends of said upper member, said feet defining a recess at the underside of said upper member, a lower elongated member received in said recess, said members each having a transverse bore substantially midway between the ends thereof, a counterbore at the lower surface of said lower member, a tubular pivot pin secured in said transverse bores, a spacing member interposed between said upper and lower members, a locking bore in said upper member parallel to and spaced from said pivot, a pair of bores in said lower member, one bore of said pairs of bores being in alignment with the locking bore of the upper member when said members are arranged in alignment, the other bore of said pair of bores being in alignment when said members are arranged transverse to each other, a pin engaging said locking bore in said upper member and selectively engaging one of the bores of said pair of bores to selectively lock said members in predetermined arrangement, a tapered screw mounted in said tubular pivot pin, the head of said screw being received in said counterbore.

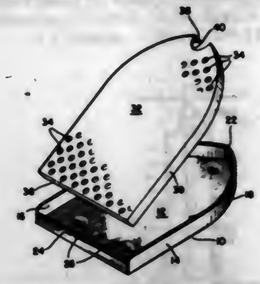
2,655,332
BAND CLAMP LOCK
John A. Carpenter and Arley D. Carpenter, Los Angeles, Calif.
Application March 29, 1948, Serial No. 17,704
2 Claims. (Cl. 248—73)



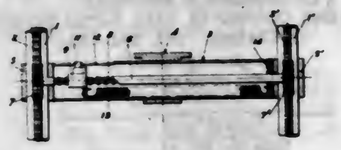
2. In combination with a hanger bar provided with transverse slots therein and an element extending across said hanger bar, a band clamp including a band extending over said element with one end of said band anchored to said hanger bar, a turn bolt having a portion provided with slots therein which receives the other end of said band extended through one of said slots in said hanger bar and around said turn bolt, and a keeper comprising a coil spring, said coil spring being wound around the turn bolt and having a member extending from one end thereof in a direction substantially parallel and in spaced relation to said slotted portion, said band being adapted to bear against said member, said turn bolt being adapted to be turned with said band engaging one side of said member and loosening the coil of said coil spring on said turn bolt, until said bolt engages said hanger bar and draws said band tightly over said element, said bolt being prevented from turning in the opposite direction when the band engages the side of said member opposite to said one side.

2,655,333
SAFETY STAND FOR STEAM IRONS
Etta M. Taylor, Seattle, Wash.
Application January 21, 1952, Serial No. 267,489
2 Claims. (Cl. 248—117.2)

2. A safety stand for flatirons, comprising: a base receptacle forming a water reservoir, said receptacle having a generally flat bottom; said bottom having generally the shape of a flatiron with one straight end, said receptacle having walls extending upwardly from the ends and sides of said bottom forming a watertight enclosure; a rest member positioned in said base receptacle having a generally planar top; means spacing said top from said bottom, said walls of said receptacle extending above said top forming retaining means for flatirons positioned thereon except the wall extending upwardly from said straight end having its upper edge at nearly the same level as said top so that flatirons may be slid onto said top of said rest member, said top of said rest member having a series of drain and ventilation openings throughout its extent.



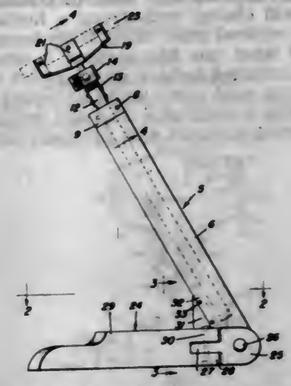
2,655,334
VERTICALLY ADJUSTABLE SUPPORTING DEVICE
André Victor Leon Clement Debrie, Paris, France
Application July 1, 1950, Serial No. 171,694
In France April 11, 1950
5 Claims. (Cl. 248—157)



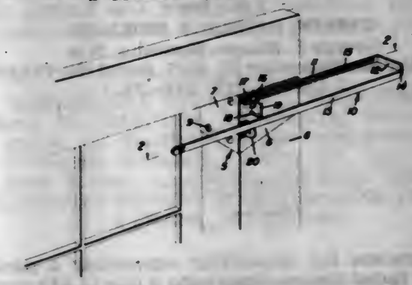
3. An adjustable supporting device comprising, in combination, elongated rack means; a support mounted on said rack means for movement therealong; a threaded, elongated shaft mounted, for rotation about its axis, on said support and extending normal to said rack means; pinion means fixedly mounted on said shaft for rotation therewith and meshing with said rack means; nut means located on and engaging said threaded shaft, said nut means being mounted on said support only for translational movement along the axis of said shaft; and spring means operatively connected to said support and nut means for urging the latter in one direction along said shaft so as to thereby compensate for the weight of an object carried by said support for movement therewith along said rack means.

2,655,335
ADJUSTABLE STAND FOR RUG HOOKING OR EMBROIDERY HOOPS OR THE LIKE
Elmer M. Johnson, Lafox, Ill.
Application November 13, 1951, Serial No. 255,915
2 Claims. (Cl. 248—166)

1. A collapsible stand comprising a base and a post pivotally mounted thereon, said base comprising a pair of spaced plates, a pivot member interconnecting said plates, a horizontally disposed arm pivoted to each plate for horizontal swinging movement about said plate, the arms diverging from one another when the base is in supporting position and having their inner ends disposed between said plates when in such position, the lower end of said post being disposed between said plates and pivotally secured to said pivot member, a support block secured to said post above and adjacent said pivot member, said support block having a flat, horizontal lower surface resting upon said arms adjacent their inner ends when the base is in supporting position and limiting pivotal movement of said post in one direction.



2,655,336
COMBINATION CURTAIN, SHADE, AND DRAPERY BRACKET
Dorothy M. McGowan, Parkland, Wash., assignor of fifty per cent to John R. McGowan, Parkland, Wash.
Application July 19, 1950, Serial No. 174,755
2 Claims. (Cl. 248—259)

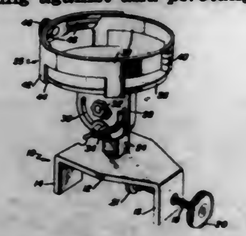


1. A combined curtain, shade and drapery attachment for windows comprising an angle bracket including first and second flanges, said first flange having apertures therethrough for the reception of fasteners to attach the same to a window frame, and vertically spaced drapery, curtain and shade supporting means mounted on said second flange, said drapery supporting means comprising a pair of horizontally spaced guide pins projecting from said second flange and a threaded stud between said pins, a U-shaped rod comprising first and second legs and a web interconnecting said legs, said first leg having a longitudinal slot therein slidably mounting said first leg on said guide pins, said second leg being adapted to receive a drapery and a headed fastener on said threaded stud to clamp the first leg in a selected position.

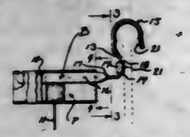
2,655,337
LANTERN BRACKET
Gerhard J. Diesfeld, deceased, late of Olean, N. Y., by Rose S. Diesfeld, executrix, Olean, N. Y.
Application September 11, 1950, Serial No. 184,901
1 Claim. (Cl. 248—310)

An attachment whereby a lantern may be conveniently and adjustably mounted on the gunnel

of a fishing boat or the like comprising a boat clamp having means whereby said clamp may be detachably applied and held in position on said gunnel, said clamp embodying a horizontal base having a vertical post rising therefrom, said post having at least one flat surface, a circular seating plate adapted to base and support the bottom of a lantern, said plate being provided on its underside with a centrally disposed depending segment bearing against and pivotally and detachably connected with the flat side of said post, said segment having a slot, a headed stud mounted in said post and adjustably cooperable with said slot, a pair of hingedly connected jaws adapted to embrace the stated lantern bottom, said jaws having adjustably connected ends and having radially disposed arms adjustably attached to the underside of said seating plate, said jaws coacting with the marginal edge portion of said seating plate and being adapted to embrace said lantern bottom.



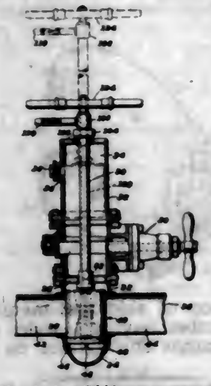
2,655,338
TISSUE PACKAGE HOLDER
George F. Stoger, Kenosha, Wis.
Application December 22, 1947, Serial No. 793,067
1 Claim. (Cl. 248—311)



A bracket for detachably supporting a package of facial tissues comprising a pair of like companion members, each including an upright body portion, a rearwardly extending hook on the upper end of the body portion, and a forwardly extending blade-like arm arranged at right angles to the hook, a bracebar connecting said members together, having inturned resilient hooks for receiving the body portions of the members, and struck-in teats on the outer ends of the resilient hooks for snapping over said body portions.

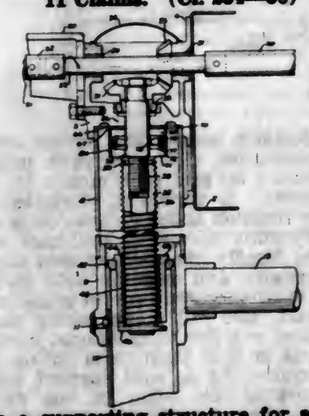
2,655,339
PIPE LINE STOPPER
John J. Smith, Decatur, Ill., assignor to Mueller Co., Decatur, Ill., a corporation of Illinois
Application July 11, 1951, Serial No. 236,108
3 Claims. (Cl. 251—68)

1. In a pipe stopper comprising a longitudinally-split cylindrical sleeve having means defining two oppositely-inclined sets of conically-arranged radial interior surfaces, spaced conical wedges within said sleeve complementary to and engaging said surfaces for expanding said sleeve by opposite axial movement, means preventing relative rotation between said sleeve and said wedges, and an axially disposed jackscrew threadedly carrying said wedges for movement in opposite directions upon rotation of the screw, the combination of means for limiting relative axial movement between said sleeve and said screw com-



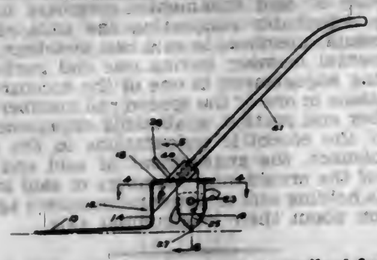
prising radially interfitting means on said sleeve and said screw.

2,655,340
SUPPORT FOR SEMITRAILERS
Thomas B. Dalton, Muskegon, Mich., assignor to West Michigan Steel Foundry Co., Muskegon, Mich., a corporation of Michigan
Application October 25, 1951, Serial No. 253,180
11 Claims. (Cl. 254—86)



4. In a supporting structure for a trailer, an extensible and retractable leg member, a screw and a nut with an anti-friction thread connection operable to extend and retract the leg portion, operating means for turning the screw, a relatively fixed support member, means for taking the trailer load on the screw including a clutch element keyed to the screw, a clutch element rotatable relative to the screw and for frictional engagement with the said relatively fixed support member, anti-friction bearing means between the two clutch elements for taking the trailer load, and a coil spring having convolutions for engaging surfaces of the two clutch elements, the convolutions being so directed that when the operating means turns the screw to project the leg portion the convolutions are loosened to relatively disengage the two clutch elements, and so that when the screw tends to turn in the opposite direction under load of the trailer the convolutions of the spring are tightened on the two clutch elements, whereby the second named clutch element which frictionally engages the relatively fixed support prevents such turning of the screw.

2,655,341
TIRE MOVING APPLIANCE
Lawrence A. Clark, Coalinga, Calif.
Application May 6, 1949, Serial No. 91,837
2 Claims. (Cl. 254—131)

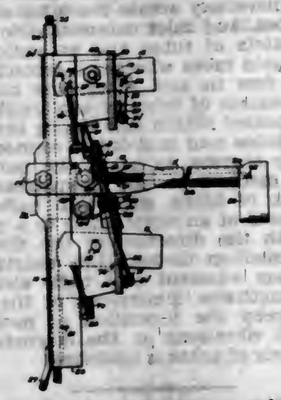


1. A device of the character described for moving tires mounted on wheels to the axles upon which the wheels are to be assembled comprising, an angular shaped supporting base member capable of being slidably positioned beneath the tire and carrying the same, a pointed rocker tread element pivotally secured to the said base member, a resiliently retained dog connecting the rocker to the said base member to limit the relative movement between the rocker and said base member, and a handle extending at an angle from the supporting member for enabling manual movement to be applied to said supporting member for operating the rocker tread element.

ERRATUM

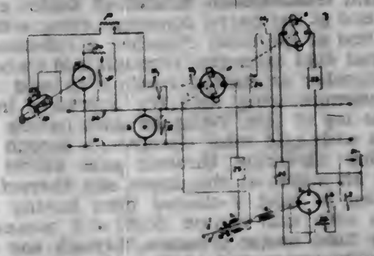
For Class 254—134.3 see:
Patent No. 2,655,653

2,655,342
MANUALLY ACTUATED CABLE HOIST
Roy Mallory, Coquille, Oreg.
Application February 6, 1951, Serial No. 209,600
3 Claims. (Cl. 254—135)



1. A cable hoist comprising a cable, an elongated shoe, U-shape in cross section positioned on the cable, a gripping jaw pivotally mounted in the shoe, spaced from the upper end thereof and positioned to grip the cable, a carriage also U-shape in cross section slidably mounted in the lower part of the shoe, a gripping jaw pivotally mounted in the carriage and positioned to grip the cable, a hand lever pivotally mounted on the shoe and positioned between the said gripping jaws, means connecting the gripping jaws to the lever whereby upon reciprocation of the lever the shoe travels on the cable, and means reversing the position of the gripping jaws to reverse the direction of travel of the hoist on the cable.

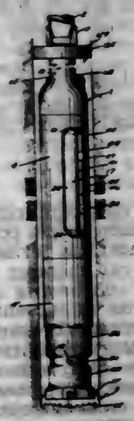
2,655,343
DRILLING DEVICE
Joseph Maximus Pestarini, Staten Island, N. Y.
Application October 6, 1949, Serial No. 119,974
10 Claims. (Cl. 255—3)



2. A drilling device comprising a drill bit, means for rotating said bit including an electric motor of the metadyne type, means for simultaneously percussing said tool including an electromagnet, means for supplying said motor metadyne with direct current comprising a metadyne generator, means for supplying said electromagnet with a pulsating current, said last mentioned means including a second metadyne generator, said second metadyne generator being provided with a controlling stator winding traversed by a pulsating current and means for modifying the frequency of said last mentioned pulsating current

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2,655,344
ROTARY BIT OPERATING MECHANISM
Harry W. McDonald, Minneapolis, Minn., assignor, by direct and mesne assignments, to McDonald Hydraulic Drilling Co., Inc., Aberdeen, S. Dak., a corporation of South Dakota
Application November 6, 1950, Serial No. 194,295
3 Claims. (Cl. 255—4)



1. A rotary motor of the character described adapted to be attached at its upper end to a drill pipe and at its lower end to a drill bit having apertures therein comprising, a barrel, a coupler having a head for attaching said barrel to the drill pipe, a rotor in said barrel, a transmission means within the barrel spaced from said head forming a chamber for the rotor, said barrel having a lining and a cam surface at one side thereof extending the length of said rotor, said rotor

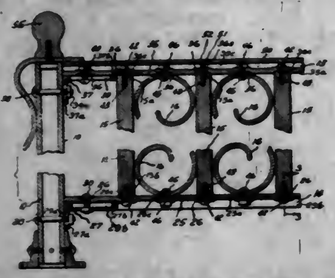
having grooves longitudinally thereof, vanes pivotally mounted in said grooves, said grooves having recesses therein, flat springs mounted in said recesses and adapted to engage said vanes to urge the same outwardly as they are depressed by said cam, said transmission means having operative connection with said bit, means forming an enclosing chamber for the transmission means, a shaft extending from the rotor into the last named chamber and having operative connection with said transmission means, an outlet at the upper end of the barrel communicating with the upper end of the rotor chamber, a substantially Y-shaped duct extending through said transmission chamber in spaced relation to said shaft and communicating with the apertures in the bit, one leg of said Y-shaped duct having connection with said rotor chamber, a second duct extending upwardly through said barrel and having an outlet at the upper end thereof, the other leg of said Y-shaped duct having connection with said second duct, and means for passing fluid under pressure through the coupler to the upper end of the rotor chamber in spaced relation to the first named outlet to contact the vanes and effect rotation of the rotor and bit whereby some of the fluid from the rotor will pass upwardly through the first named outlet and some of the fluid will pass through said second duct connected with the other leg of the Y-shaped duct and through the outlet thereof and some will pass downwardly through the Y-shaped duct to said bit for releasing pressure at the bottom of the well hole and facilitating passage of the fluid from the rotor.

2,655,245

ORNAMENTAL IRONWORK STRUCTURE

Philip C. Lindman, Dallas County, Tex.

Application April 22, 1948, Serial No. 22,543
11 Claims. (Cl. 256—22)



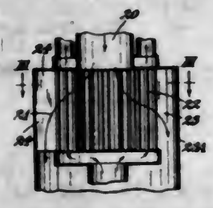
1. An ironwork structure including, a first rail member having spaced upset portions in the form of eccentric indentations formed in one surface thereof, a second rail member spaced from said first rail member and having spaced upset portions in the form of eccentric indentations formed in one surface, the surfaces of said rail members having the indentations therein being positioned to face each other, baluster cross members each having an eccentric end portion at each end, said cross members extending between said rail members and each having one end portion disposed in one of the indentations in one rail member and its other end portion disposed in one of the indentations in the other rail member, releasable connecting means extending through the rail member into the ends of the cross members for securely detachably connecting the ends of the cross members to said rail members and positively detachably holding said end portions in abutting engagement in said indentations, ornamental members of an overall length substantially equal to the length of said cross members and extending between said rail members, and connecting means extending through the rail members and engageable with the ends of said ornamental members for securely detachably connecting the ends of said ornamental members to said rail members, each ornamental member having one end portion in abutting engagement in one of the eccentric indentations in one of the spaced rail members and its other end portion in abutting engagement in one of the eccentric indentations in the other rail member, the engagement of said end portions of the ornamental members in said indentations holding said ornamental members against rotation about their longitudinal axis.

2,655,246

HEAT EXCHANGER WITH TUBE MATRIX

Robert William Corbitt, Tunstall, Sittingbourne, and John Hugh Dale, Darley Abbey, England, assignors to Rolls-Royce Limited, Derby, England, a British company

Application July 7, 1950, Serial No. 172,436
In Great Britain July 25, 1949
9 Claims. (Cl. 257—16)



1. In heat-exchange apparatus of the class comprising a casing, a matrix of tubes arranged within said casing, an inlet connection to said casing, an outlet connection from said casing, said inlet and outlet connections being positioned to permit a first fluid medium in passing from said inlet connection to said outlet connection to flow transversely across the tubes of said matrix of tubes, and inlet connection to the tubes of said matrix of tubes and an outlet connection from said tubes whereby a second fluid medium can flow in said tubes; the combination with said matrix of tubes of a plurality of baffle elements located within said casing between said matrix of tubes and said outlet connection from said casing thereby to be in the path of said first fluid medium on the downstream side of said matrix of tubes, each said baffle element being disposed at an acute angle to a plane containing both the direction of the flow of said first fluid medium through the matrix of tubes at a location adjacent said baffle element and also the lengthwise dimensions of the adjacent tubes, whereby the formation of nodal planes of resonant vibrations on the downstream side of said matrix of tubes is inhibited.

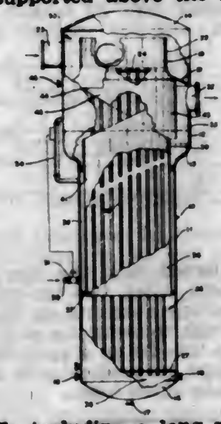
2,655,247

HEAT EXCHANGER

Paul W. Bielfeldt, Harvey, Ill., assignor to Whiting Corporation, a corporation of Illinois

Application October 11, 1950, Serial No. 189,657
6 Claims. (Cl. 257—39)

1. A heat exchanger for generating vapor including a hollow shell, spaced end members in the shell defining an ebullition chamber, a plurality of tubes extending through the end members and the ebullition chamber, a vapor outlet for the ebullition chamber and a liquid inlet for maintaining a liquid level below said vapor outlet in said chamber, means for passing vapor into the tubes, a first baffle around the tubes spaced from the shell and end members including a long wall portion facing the vapor outlet and terminating above the liquid level and a second baffle around the tubes supported above the first baffle, said



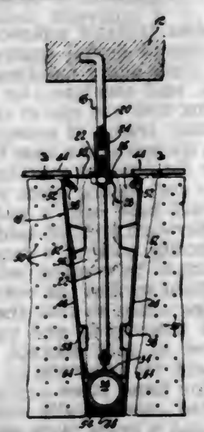
second baffle including a long wall portion disposed in spaced relation between the portion of the shell incorporating the vapor outlet and the upper extremity of the first baffle and extending to the liquid level, and a short wall portion opposite said long wall portion being spaced axially from the first baffle and having its lower extremity above said liquid level.

2,655,248

HEAT EXCHANGE AND SOUND ABSORBING WALL UNIT

Robert L. Siering, New York, N. Y., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York

Continuation of application Serial No. 79,349, March 3, 1949. This application November 17, 1949. Serial No. 127,963
8 Claims. (Cl. 257—124)



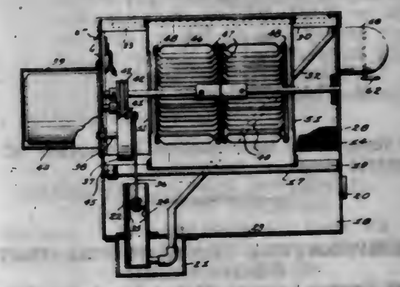
5. In a treatment for a wall such as a ceiling, a conduit, rods suspending the conduit from the ceiling at intervals, a partition comprising U-shaped metal casings enclosing the conduit with the conduit adjacent the base of the casings and in heat conducting relationship with the casings, said casings including outwardly and upwardly extending side walls, supports carried by said rods above said conduit, and cooperating means on said side walls and supports for securing the casings to the supports.

2,655,249

AUTOMOBILE HEATING AND COOLING APPARATUS

Lewis R. Beavin, Oklahoma City, Okla.

Application November 10, 1950, Serial No. 195,979
1 Claim. (Cl. 257—138)



In a motor vehicle, an air conditioning apparatus comprising a housing mounted in the vehicle passenger compartment, a water reservoir in said housing, the rear wall of said housing being formed with an inlet opening, a porous screen coextensive with said opening, a perforated trough mounted in said housing over the top edge of said screen, a conduit connecting the reservoir to the trough, a pump connected to said conduit and arranged to force water from the reservoir therethrough, conduit means connecting the lower portion of the screen with said reservoir, said housing being formed with an outlet opening in the front wall of said housing, a shaft extending transversely of said housing, a blower mounted on said shaft between screen and said outlet opening, an auxiliary housing located adjacent one side of the first-named housing, an electric motor mounted in said auxiliary housing, means projecting into said first-named housing drivingly coupling said motor to said pump and blower, a cover flap hinged to the first-named housing and arranged to overlie said screen, a first flexible shaft slidably carried by said first-named housing and connected to said cover flap, the side wall of said first-named housing being provided with an opening adjacent the intake side of the blower, an air intake conduit connected to said last-named opening, heating means in said last-named conduit, a flap valve pivotally mounted in said last-named conduit, an external operating lever connected to said flap valve, and a second flexible shaft slidably carried by said first-named housing and connected to said lever.

2,655,250

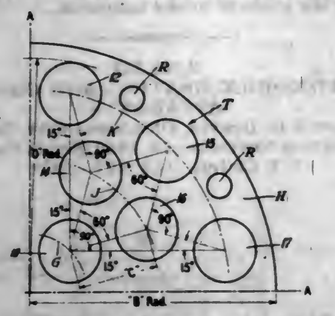
TUBE ARRANGEMENT FOR HEAT EXCHANGERS

William M. Gaylord, Jr., Cleveland, Ohio, assignor to Union Carbide and Carbon Corporation, a corporation of New York

Application September 28, 1950, Serial No. 187,200
8 Claims. (Cl. 257—236)

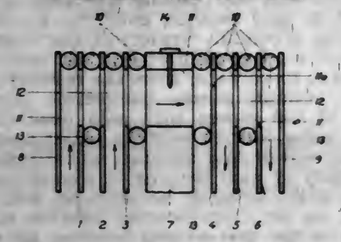
1. In a heat exchanger, a shell and tubes arranged within said shell in axially parallel relation and in spaced relation to each other and to the shell, said tubes being arranged with their centers in rings in concentric relation, the tube centers of one of said rings being arranged in equally spaced pairs equally spaced apart in their ring and the hypothetical chords between the

tube centers of said pairs forming the bases of equilateral triangles, the apices of said triangles



being formed by tube centers in another of said concentric rings.

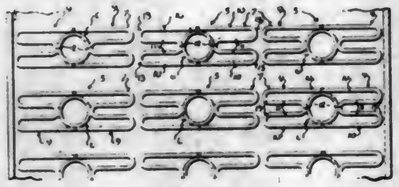
2,655,251
TEMPERATURE CONTROL FOR HEAT EXCHANGERS
Robert Pontus Larsson Hytte, Lund, Sweden, assignor to Aktiebolaget Separator, Stockholm, Sweden, a corporation of Sweden
Application April 13, 1949, Serial No. 87,219
In Sweden April 14, 1948
4 Claims. (Cl. 257—245)



1. A plate heat exchanger comprising a plurality of vertical heat exchange plates provided at their upper portions with throughflow openings forming a channel extending substantially horizontally along the upper portion of the exchanger, and a thermal device extending downward into the upper portion of the channel for use in controlling the temperature of a liquid flowing through the channel, the exchanger being characterized in that said opening in one of the plates, located beyond said device reckoned in the direction of the liquid flow through the channel, is smaller than said openings in the other plates and is located at the upper part of the channel with its lower edge above the level of the lower edges of the other openings and at least as high as approximately the lower end of the thermal device, whereby said device is immersed in the liquid even at relatively low flow rates thereof through said channel.

2,655,252
EXTENDED SURFACE HEAT EXCHANGER
David Dalin, Stenkullen, Ronninge, Sweden
Application December 2, 1950, Serial No. 198,793
3 Claims. (Cl. 257—262.16)

1. An extended surface heat exchanger, comprising: a plurality of spaced parallel tubes positioned with their axes lying in a common plane; an extended surface on each of said tubes, said extended surface comprising two diametrically opposite rows of wire elements on each tube with the elements on adjacent tubes facing each other, each of said elements having a serpentine formation with a plurality of substantially parallel spaced legs lying in a common plane transverse to the tube axes, the outer legs of each element embracing and being secured to the tube and the loops connecting the inner legs being secured to the tube, the legs of the elements on one tube



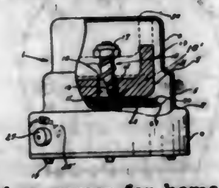
being axially aligned with the legs of the elements on adjacent tubes, and the outer loops of all of the serpentine elements on the same side of each tube which connect the ends of the legs remote from the tube being spaced the same distance from a plane perpendicular to the legs and containing the axis of the tube.

2,655,253
AMALGAMATOR MIXER
Stanleigh R. Meaker, Clyde, N. Y.
Application July 26, 1951, Serial No. 238,700
9 Claims. (Cl. 259—75)



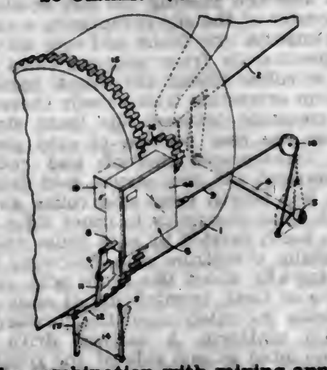
1. A dental amalgamator adapted to be driven from a conventional dental engine of the type having a hand piece and a rotating chuck within the hand piece, said amalgamator comprising a ferrule for fitting over one end of the hand piece, a unitary vibrator frame of generally U-shaped form having at its rear end a base loosely pivoted to said ferrule for limited vibratory movement relative thereto and having arms extending forwardly from said base and a pair of opposed sockets at the forward ends of said arms for receiving the opposite ends of a capsule containing the amalgam to be treated, said arms being sufficiently resilient so that the outer ends thereof may be sprung apart so that the ends of said capsule may be inserted in and tightly and resiliently retained in said sockets, a crank pin having a rear end for insertion in the chuck of the dental engine hand piece and having a forward end located eccentrically with respect to said rear end, and a cross piece embracing said forward end of said crank pin and both arms of said vibrator frame in motion-transmitting relation thereto so that when the crank pin is rotated by a dental engine, the eccentric forward end thereof will vibrate said vibrator frame relative to said ferrule and thereby agitate the contents of the capsule held in said sockets of said vibrator frame.

2,655,254
MIXER AND PROCESSOR FOR HOME USE AND THE LIKE
Jerome L. Murray, Stamford, Conn., assignor to Pollard & Johnston, New York, N. Y., a firm composed of Albert C. Johnston, Charles P. Pollard, D. Verner Smythe, and Donald W. Robertson
Application August 29, 1947, Serial No. 771,176
26 Claims. (Cl. 259—108)



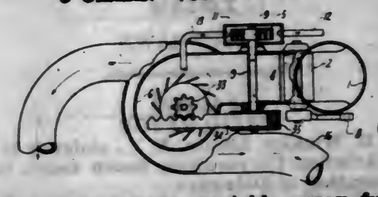
1. In a food processor for home use, a casing having a non-magnetic top and adapted to support a non-magnetic container for food thereon, a magnetically driven food processing element freely positioned on the bottom of the food container, a rotatable shaft in said casing, means driving said shaft, a magnetic driving element mounted on said shaft and adapted to occupy a lower position wherein the magnetic field to which the food processing element is subjected is of low strength and an upper position in which the strength of the field to which the food processing element is subjected is substantially greater, said shaft and said driving element being coupled together by means of a low pitch thread for moving the magnetic driving element from its lower position to its upper position when the shaft begins to rotate and permitting the movement of the magnetic element by gravity to its lower position when the rotation of the shaft is stopped and the magnetic circuit formed through the driving element and the food preparing element is broken.

2,655,255
BATCH METER FOR CONCRETE MIXING APPARATUS
Alfred W. Slack, Plainfield, and Robert A. Snyder, Gillette Heights, N. J., assignors to Worthington Corporation, Harrison, N. J., a corporation of Delaware
Application June 7, 1952, Serial No. 292,282
23 Claims. (Cl. 259—163)



1. The combination with mixing apparatus including, at least one mixing drum, a charging means for said mixing drum, a transfer means for discharging mixed ingredients from said mixing drum, and lever means for controlling said transfer means of, a batch meter including, a housing, driving means connected for continuous rotation with said drum pivotally mounted in said housing and disposed transversely of the longitudinal line of said housing, a driven timing means disposed parallel to the longitudinal line of said drum and perpendicular to said driving means, a setting rod slidably mounted in said housing connected to said driving means and normally maintaining said driving means out of engagement with said driven timing means, a trip mechanism, said setting rod operated by the charging means to move said driving means into engagement with said driven timing means to set said trip mechanism and to lock said lever means in the set position, means on said driven timing means for releasing said trip mechanism after a predetermined number of revolutions of said drum, and means for returning said setting rod to the released position.

2,655,256
CARBURETOR FOR INTERNAL-COMBUSTION ENGINES
Herman F. Bercherts, Allison Park, Pa.
Application December 2, 1949, Serial No. 130,743
5 Claims. (Cl. 261—39)

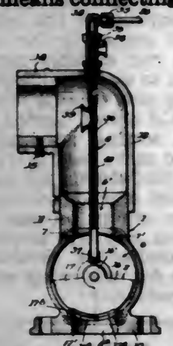


1. In a low pressure variable spray fuel injector, a fuel mixing chamber, an air supply passage communicating with said chamber, angularly disposed vanes in said fuel mixing chamber for subjecting the air supplied to said chamber to a swirling motion, a valve housing above said chamber, a mixing tube extending from the valve housing into said chamber, a valve disposed in said housing and having means for metering fuel to the mixing tube, said valve and valve housing having complementary conical shaped seating faces and said valve having an arcuate groove of gradually diminishing cross section communicating with a source of fuel supply, means for subjecting the valve to rotary movement for varying the fuel delivered to the mixing tube, an air valve in the air supply passage automatically responsive to the air flow in said passage, said air valve being connected to actuate said valve rotating means, whereby the ratio of the fuel supply to the mixing chamber is directly proportional to the air supply to said chamber.

2,655,257
INJECTOR CARBURETOR
Joseph A. Steffen, Chicago, Ill.
Application January 3, 1952, Serial No. 264,753
6 Claims. (Cl. 261—44)

1. In a carburetor having a mixing chamber therein provided with intake and discharge ways, an air scoop connected to the carburetor and communicating with its intake way, relatively opposed throttle valve elements rotatably mounted in said chamber engageable across the carburetor discharge way, fuel metering means, an air supplying tube engaged within and longitudinally of said air scoop and supported by the same, said air tube extending into the carburetor chamber and into proximity to and communication with said throttle valve elements, a second tube received within and extending longitudinally of said air tube, said second tube being arranged in cir-

cumferentially spaced relation to the air tube and extending to a point inwardly of the free end of the air tube, means connecting said fuel meter-



ing means to said second tube, and means for imparting collective rotary motion to said throttle valve elements whereby to open or close the same.

2,655,358

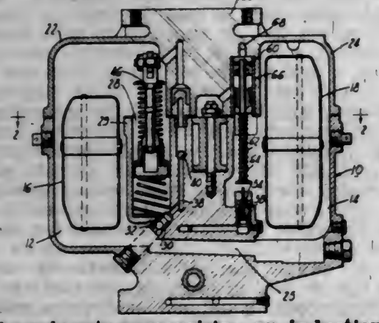
WITHDRAWN

2,655,359

CARBURETOR

Albert H. Winkler, Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application November 19, 1949, Serial No. 128,350
4 Claims. (Cl. 261—72)



1. A carburetor comprising an induction passage, a float chamber on each side of said induction passage, a discharge jet directly connecting one of said chambers with said induction passage, a fuel inlet valve, and a mechanism for controlling said inlet valve including a float in each chamber, the float in the chamber connected directly to the induction passage having a larger volumetric displacement below the normal fuel level than the volumetric displacement of the other float above the normal fuel level.

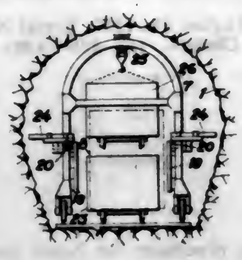
2,655,360

METHOD AND MEANS FOR TUNNELING OR THE LIKE IN ROCK

Jan Patrik Danielsson, Stockholm, Sweden, assignor to Aktiebolaget Atlas Diesel, Stockholm, Sweden, a corporation of Sweden

Application September 15, 1948, Serial No. 49,316
In Sweden September 20, 1947
7 Claims. (Cl. 262—1)

7. A drill wagon for tunneling operations, said wagon comprising a straddle-type framework providing a passage through the wagon for a loader and cars, lifting means carried by said framework above a portion of said passage for lifting a car to a position in which other cars may pass through the passage without interfer-



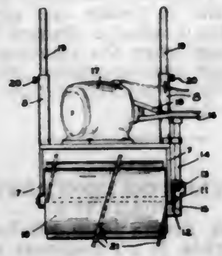
ence from the lifted car, and a working platform at a level above floor level projecting from the wagon at one end thereof, and providing space for drill runners and drills below and on said working platform.

2,655,361

ENSILAGE CUTTER

John Soehl and Warren C. Huffman, Winthrop, Minn.

Application November 12, 1949, Serial No. 126,714
4 Claims. (Cl. 262—20)
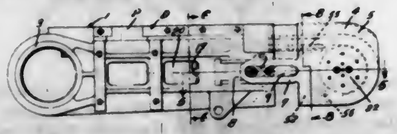


2. A machine for cutting frozen ensilage loose from the peripheral marginal area adjacent the walls of a silo and moving the cut ensilage toward the center of the silo comprising a carriage having a platform and front and rear struts extending downwardly from opposite sides of the platform, a roller under the front portion of said platform extending transversely thereof and rotatably mounted between the front struts, a drum under the rear portion of said platform extending transversely thereof and rotatably mounted between the rear struts, said drum being of not less length than said roller and terminating in close proximity to inner sides of the rear struts, teeth carried by said drum and projecting radially therefrom and following a line extending spirally about the drum with ends of the said line of teeth terminating at ends of the drum, a motor mounted upon the forward portion of said platform, a vertical drive shaft rotatably mounted at one side of the front portion of said platform and at its lower end geared to said drum, and means for transmitting rotary motion from said motor to said drum shaft and rotating the drum in a direction causing the spirally arranged teeth to move cut material toward the side of the drum at which the said shaft is mounted.

2,655,362

CHAIN GUIDE FOR DISINTEGRATING APPARATUS

Lester G. Rollins, Franklin, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application June 27, 1950, Serial No. 170,639
3 Claims. (Cl. 262—28)



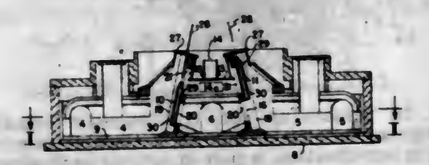
1. In a disintegrating apparatus, in combination, a bar structure having at the forward end thereof an elongated rotatably supported idler roller and having upper and lower chain guiding surfaces in planes tangent to said roller, chain guides for disintegrating chains which include bit-carrying blocks having lateral surfaces and oppositely projecting flanges, each of said guides including a forward arcuate portion and rearwardly extending parallel portions, and means for securing said rearwardly extending parallel portions against lateral displacement relative to said upper and lower chain guiding surfaces and to position said forward arcuate portion in coaxial relation with said roller including spaced parallel ribs on said chain guiding surfaces, grooves in said chain guides to fit over said ribs and thereby laterally fix and space said guides with respect to each other and threaded holding elements extending through said chain guides between the sides of the grooves therein, said chain guides having on their laterally opposite faces portions spaced from said chain guiding surfaces and having lateral and inner surfaces to coact with the lateral surfaces and oppositely projecting flanges respectively on the chain blocks.

2,655,363

FURNACE VALVE CONSTRUCTION

Jay L. Reed, Hamburg, N. Y.

Application August 1, 1951, Serial No. 239,710
3 Claims. (Cl. 263—15)



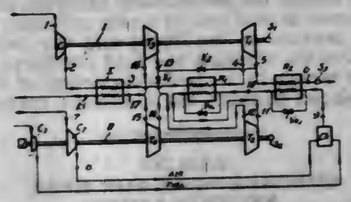
1. In a reversing valve system having two flue ducts communicating with a stack flue and having an air box for supplying air under pressure to a selected one of said flue ducts, the invention herein defined comprising a pair of hollow valve seats each having two spaced parallel side guides and three hollow cross members connecting the side guides, one of the cross members being located near each end of the guides and the third one being intermediate the ends of the guides, the hollow interiors of the guides and cross members all being in continuous communication whereby each seat is provided with a window-like air port between the intermediate cross member and one of the end cross members and a window-like hot gas port between the intermediate and other end cross member, said seats being positioned across the ends of the air box with the air ports thereof registering with the air box and with the gas ports thereof being positioned between one of said flue ducts and the stack flue, the intermediate and end cross frame member defining the air port having openings in the confronting surfaces thereof which are always open to the air in said air box, the third cross member having an opening therein leading from the interior thereof to the gas port of which it constitutes one boundary, and a plate-like valve slideable on each valve seat between said guides on the face of the seat which is turned away from the air box and selectively movable from a position over one window-like port to a position over the other.

2,655,364

INSTALLATION FOR THE PRODUCTION OF HOT GASES UNDER PRESSURE

Pierre Edmond Jules Marie Maldague, Seraing, Belgium, assignor to Societe Anonyme John Cockerill, Seraing, Belgium, a Belgian company

Application October 31, 1950, Serial No. 193,160
In Belgium November 10, 1949
1 Claim. (Cl. 262—19)



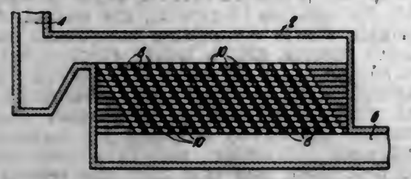
In an apparatus, for use in the production of hot gas at a desired rate and temperature and pressure, in combination: two rotatable shafts spaced from each other; the first of said two shafts comprising a first compressor, a first turbine, and a second turbine, keyed to said first shaft for rotation therewith; the second of said rotatable shafts comprising compressor means, a third turbine, and a fourth turbine, keyed to said second shaft for rotation therewith; a first heat exchanger, a second heat exchanger, a third heat exchanger, and a combustion chamber structure operatively disposed for turbine and compressor connection; said first compressor of said first shaft and said first and second heat exchangers and said second turbine of said first shaft and said third heat exchanger being interconnected in series forming a circuit for the compression and heating and expansion and reheating of said gas; and compressor means of said second shaft and said combustion chamber and said third heat exchanger and said second heat exchanger and said fourth turbine of said second shaft being interconnected in series forming a part of a combustion gas circuit for a first combustion gas expansion, said first turbine of said first shaft and said third turbine of said second shaft being interconnected in parallel to said fourth turbine of said second shaft and forming a succeeding part of said combustion gas circuit for a second combustion gas expansion substantially equally apportioned between said shafts, and said first heat exchanger being interconnected to said first and third turbine completing said combustion gas circuit for the production and expansion and heat exchange of a combustion gas; all of said turbines having substantially identical structural dimensions and construction, and said first compressor and at least a portion of said compressor means having substantially identical structural dimensions and construction, whereby the outputs by weight of said hot gas and of said combustion gas will be substantially equal during normal operation.

2,655,365
APPARATUS FOR DISCHARGING SOLID MATERIAL
Harold V. Trask and Kenneth M. Haley, Ashland, Ky., assignors to Oglebay, Norton and Company, Cleveland, Ohio, a corporation of Delaware
Application December 19, 1951, Serial No. 262,456
27 Claims. (Cl. 263—29)



1. In a shaft furnace for indurating discrete bodies of mineral solids, means providing a liquid seal at the bottom of said furnace into which the indurated bodies move, the said means having a discharge opening spaced above the bottom thereof, means for periodically applying pressure to the liquid in said seal at a rate sufficient to displace a portion of the liquid and the indurated bodies therein through the said discharge opening, and means to replace the portion of the liquid displaced through the discharge opening.

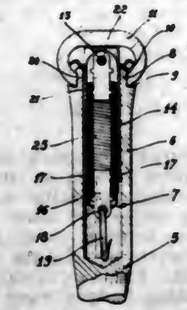
2,655,366
CHECKERWORK FOR HEAT REGENERATORS
John C. Stanley, Duquesne, Pa., assignor to United States Steel Corporation, a corporation of New Jersey
Application January 11, 1950, Serial No. 138,027
2 Claims. (Cl. 263—51)



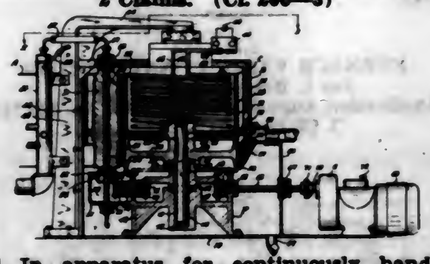
1. A checkerwork construction for a regenerator comprising a plurality of closed parallel passageways extending through said regenerator at an angle to the vertical, said passageways each having opposed first and second smooth substantially continuous vertical walls, a third smooth substantially continuous wall inclined to the vertical and connecting said first and second walls, and a fourth wall opposed to said third wall and connecting said first and second walls, said fourth wall having a corbeled surface.

2,655,367
MOUNTING AND CASING FOR SCALES
Andrew W. Andersen, Babylon, N. Y.
Application February 11, 1950, Serial No. 143,702
1 Claim. (Cl. 265—66)

In a fishing rod having a handle with a hollow butt portion which is open at one end and which defines a longitudinally elongated chamber therein, and having an annular bead at said open end: a scale removably disposed in said chamber, said scale comprising a housing, a calibrated slide, a spring connected at one end to the housing and at the opposite end to one end of the slide, a hook secured to the opposite end of said slide, and a cap secured to said housing to serve as a handle for supporting said scale when in use, said cap being made of flexible resilient material of a size and shape to frictionally engage the annular bead of the hollow butt portion of the fishing rod handle so that it may readily be applied to said hollow butt portion to enclose the scale in the chamber in said hollow butt portion and also to serve as a bumper for said fishing rod handle, said cap being readily removable from said hollow butt portion to remove the scale from the chamber within said hollow butt portion, said cap being hollow and being provided with a relatively small opening through which the housing of the scale projects into said hollow cap, the inwardly projecting portion of said scale housing having an annular flange which is larger than said opening to prevent dislodgment of said scale housing from said hollow cap.



2,655,368
MEANS FOR CONTINUOUS HEATING AND COOLING OF LONG FLEXIBLE ELEMENTS
Harry L. Keller, Cleveland, Ohio, assignor to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio
Application January 15, 1949, Serial No. 71,166
2 Claims. (Cl. 266—3)



1. In apparatus for continuously handling elongated lengths of a flexible element comprising in combination, a pair of cylindrically-shaped members supported for rotation on spaced, generally-parallel axes, said element being coiled around said members in a plurality of turns and continuously coiled onto one end of said members and fed off the other end of said members as said members are rotated, at least one of said members being formed in two parts in heat-insulated relationship, one from the other, one of said parts adjacent the end where said element feeds onto said member adapted to heat said element and the other part adapted to cool said element.

2,655,369
SHOCK ABSORBING DEVICE
Louis C. Musilli, Detroit, Mich.
Application November 17, 1949, Serial No. 127,823
9 Claims. (Cl. 267—1)

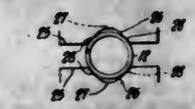
1. A shock absorbing unit comprising laterally spaced walls, a plurality of deformable spherically

shaped separable chambers containing a compressible fluid medium and supported between the walls in side by side relation with the adjacent sides in contact, said chambers being arranged in straight rows extending in directions



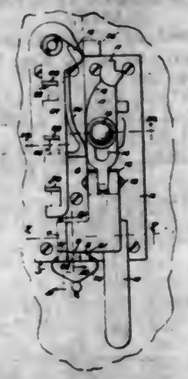
transverse to each other providing spaces between the chambers, and ties extending from one wall to the other through the spaces between adjacent chambers and having the opposite ends respectively secured to said walls.

2,655,370
RESILIENT CUSHION UTILIZING SIDE-LOADED HELICAL SPRINGS
Arthur R. Schulze, Youngstown, Ohio, assignor to United States Steel Corporation, a corporation of New Jersey
Original application January 25, 1949, Serial No. 72,682, now Patent No. 2,525,730, dated October 10, 1950. Divided and this application September 6, 1950, Serial No. 183,243
2 Claims. (Cl. 267—1)



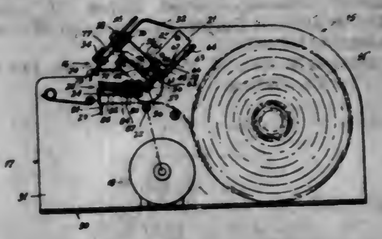
1. In a resilient cushion for absorbing shock or vibration, a supporting member, a load-applying member spaced therefrom, alined grooves in the adjacent surfaces of said members, respectively, said grooves having flat sides substantially at right angles to each other, and a helical spring disposed between said members, seated in said grooves and engaging said sides.

2,655,371
FREIGHT CAR DOOR LOCK
John F. Bentley, Roseommon, Mich.
Application October 30, 1947, Serial No. 783,001
1 Claim. (Cl. 268—44)



A sliding car door operating mechanism comprising a vertical keeper plate adapted to be secured to a car door frame adjacent to the car door opening, a vertical keeper arm pivotally connected to the keeper plate at the upper end of said keeper arm, a lug extending laterally from said keeper arm and offset with respect to the pivot of said keeper arm, a vertical cam rib extending from said keeper plate under said lug, a pivoted locking arm carried by the door disposed opposite to said keeper plate, a jaw on said locking arm cooperating with said lug for moving and locking the car door in its closed position, said jaw presenting a curved surface movable over said cam rib forcing said car door to its open position upon movement of said locking arm in one direction.

2,655,372
MACHINE FOR MECHANICALLY ELECTRICALLY MEASURING AND DISPENSING GUMMED TAPE
Herbert W. Hempel, Belleville, Ill., assignor to Marsh Stencil Machine Company, Belleville, Ill., a corporation of Illinois
Application October 17, 1949, Serial No. 121,879
15 Claims. (Cl. 271—2.4)

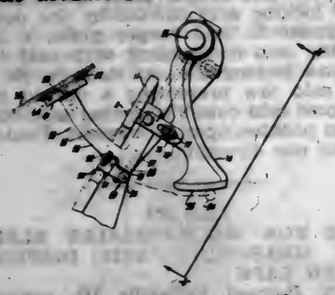


1. In a tape measuring and dispensing machine comprising in combination, a support, a tape feed member movably mounted thereon, electrical power means operatively connected to said tape feed member for moving the same, a movable tape measuring and presser member movably mounted on said support, electrical power means operatively connected to said measuring and presser member for moving the same into driven engagement with said tape feed member, and mechanical-electrical mechanism for selecting tape segments to be fed and measured and for energizing and deenergizing said two power means to effect feeding and measuring of the selected tape segment, said mechanism being in mechanical driven connection with said measuring and presser member whereby movement of the latter is effective to control the length of tape dispensed in one cycle of operation of the machine.

2,655,373
FEEDING MECHANISM
Ed Laxo, Oakland, Calif., assignor to Atlas Imperial Diesel Engine Co., Oakland, Calif., a corporation of Delaware
Original application June 1, 1948, Serial No. 30,242, now Patent No. 2,577,004, dated December 4, 1951. Divided and this application December 24, 1949, Serial No. 135,012
2 Claims. (Cl. 271—32)

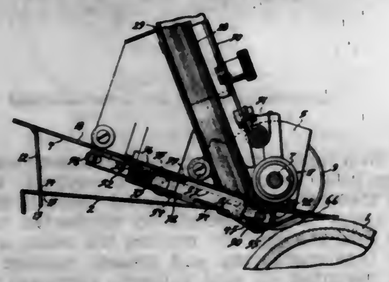
1. A suction feeding mechanism comprising a frame, an arm oscillatable on said frame and having a suction passageway extending therethrough, a suction member fixed to said arm and communicating with one end of said passageway, a valve carried by the arm and communicating with said passageway and operable when open to release suction from said suction member, means yieldably urging said valve to closed position, and a cam adjustably mounted on the frame and having an arcuate face engageable with the valve

to periodically open said valve as said arm oscillates, the arcuate face of said cam having its



center of curvature disposed at the axis about which the arm oscillates.

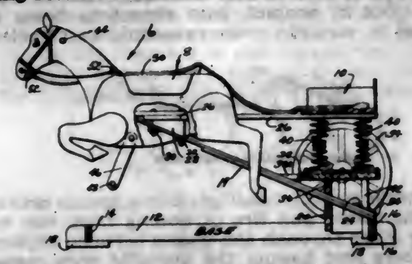
2,655,274
AUTOMATIC SHEET FEEDING MECHANISM
Malcolm G. Townsley, Park Ridge, Ill., assignor to Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application March 24, 1950, Serial No. 151,751
17 Claims. (Cl. 271—36)



1. In an automatic sheet feeding mechanism for sequentially feeding sheets edgewise, the combination of a rotatable driven friction feed roll, a constantly rotatable friction retard roll disposed similarly to and in opposing relation with said feed roll for the feeding of sheets under pressure between said rolls, and a yieldable friction brake device connected with said retard roll for resisting rotation thereof to an extent sufficient to cause slippage between superposed sheets between said rolls by stoppage of said retard roll and consequent temporary stoppage of the sheet contacting said retard roll while the sheet contacting said feed roll is fed and permitting rotation of said retard roll when a single sheet is being fed between said rolls.

2,655,275
HOBBYHORSE
Frank I. Louckes, Memphis, Tenn.
Application December 21, 1951, Serial No. 262,727
4 Claims. (Cl. 272—53)

2. A toy device comprising a diagonally disposed resilient leaf member, a plurality of vertical coil spring elements, a horizontal bar, means connecting one end of said bar to said coil springs, said bar angularly intersecting and being rigidly secured to said diagonally disposed leaf member, said leaf, said bar, and said coil springs combining to establish a substantially triangular resilient suspension adapted for swinging movement responsive to swinging of said leaf and vertical movement with said coil springs, said coil spring elements resisting upward movement of said bar end urged by downward movement of the intersection of said bar and said leaf, and urging return of said bar end to normal position,



said coil spring elements cushioning downward movement of said bar end, said bar coupling said coil springs and said leaf for conjoint movement.

2,655,276
SKIPPING BAR
Chester Arthur Hull, Raceland, Ky.
Application August 18, 1952, Serial No. 304,939
1 Claim. (Cl. 272—74)



A skipping amusement device comprising an upright support, a sleeve rotatably mounted on the upright support, a flexible connection having one end secured to the upper end of the sleeve, an operating handle secured to the other end of the flexible connection, said operating handle including a rotatable hand grip and a crank member for rotating the sleeve, said sleeve having a fitting secured thereto adjacent the lower end thereof and having a right angular tubular extension lying horizontally, a rod detachably mounted in the tubular extension, said sleeve being vertically slidable during rotation upon manipulation of the handle to vary the height at which said rod will be rotated.

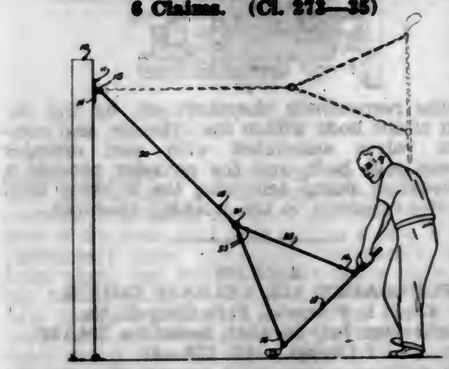
2,655,277
SUPPORT FOR HOOPS FOR BASKETBALL GAMES
Arthur Carl Holmdahl, Kellogg, Iowa, assignor to Midwest Metal Stamping Co., Kellogg, Iowa, a corporation of Iowa
Original application July 29, 1948, Serial No. 41,311. Divided and this application March 17, 1951, Serial No. 216,161
1 Claim. (Cl. 273—1.5)



Basketball game apparatus for mounting on a back-board or the like, including a split hoop of

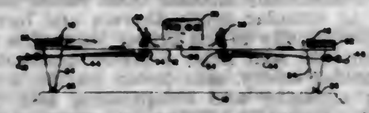
generally circular shape terminating in two adjacent spaced ends, said ends being bent into substantially S-shape, a plate for securing the hoop to the back-board, said plate being provided with four apertures therein and being adapted to overlie the ends of the hoop, and four fastening members extending through the apertures into said back-board, said apertures being so positioned that the fastening members engage with the curves of said S-shaped ends.

2,655,278
GOLF INSTRUCTION APPARATUS
Andrew D. Sheffer, Brighton, Mich.
Application May 27, 1949, Serial No. 95,775
6 Claims. (Cl. 272—95)



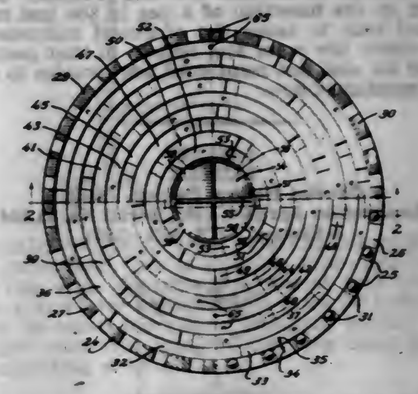
5. Golf instruction apparatus comprising an upright support, a line structure providing two separate ends at one end of said structure, means connecting the other end of said line structure to said support at a height above the ground somewhat greater than the height of a man, a golf club including a shank and a head at one end and a grip at the other end of said shank, and means connecting said two line ends to said club shank one near the head and one near the grip of said club.

2,655,279
TABLE GAME
Francis C. Miller, Red Lion, Pa.
Application November 7, 1951, Serial No. 255,193
15 Claims. (Cl. 272—85)



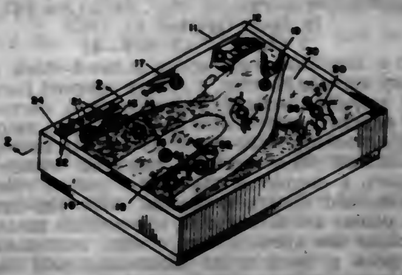
1. A game apparatus comprising in combination; an extended game board of non-metallic sheet material arranged to be positioned horizontally; a game piece movable upon the upper surface of said board, said game piece having a base provided with curved sides, a magnetizable member on said base substantially concentric with the vertical axis thereof, a pivot extending below the bottom plane of said base substantially centrally thereof, and playing piece engageable means extending laterally relative to said base; a playing piece slidably movable upon the upper surface of said game board and arranged to be engaged by the engageable means of said game piece when the latter is rotated about its pivot; and a game piece actuator manually movable relative to the under surface of said game board and including a head having a magnet fixed thereto and arranged to attract the magnetizable member of said game piece, manually holdable means supporting said head and magnet for rotation, and manually operable means connected to said head and arranged to be actuated to rotate said head and game piece attracted thereto at the will of the operator, said game piece also being movable by said actuator in various paths of movement within the plane of said game board.

2,655,280
MARBLE GAME
Merlin Edward Engle, St. Paul, Minn.
Application July 24, 1950, Serial No. 175,530
15 Claims. (Cl. 273—123)



1. A marble game including a series of concentric ring means having inner and outer walls, the outer walls of one ring means being closely adjacent to the inner wall of the next adjacent ring means, said ring means being relatively rotatable, said ring means having angularly spaced notches therein, the bases of said notches being inclined to direct a marble toward a next adjacent ring means, the lower end of each notch being below the level of the adjoining wall of the next adjacent ring means but no higher than the upper ends of the notches of the next adjacent ring means, the bases of said notches directing a marble into a registering notch of the next adjoining ring means through the lower end of the notch and into the higher end of the registering notch of the next adjacent ring means.

2,655,281
TRAVEL GAME BOARD AND PEGS
Harry J. Ferling, Baltimore, Md.
Application July 9, 1951, Serial No. 235,786
1 Claim. (Cl. 272—130)



A game apparatus comprising a box, a cover therefor, said cover having printed on the upper surface thereof simulations of preselected animals and articles, the cover having a first set of

holes therethrough, there being one such hole in proximity to each simulated animal and article and there also being a second set of holes through the cover, a series of pegs having an enlarged head and a smaller cylindrical extension, said heads being retained on the cover and said extensions protruding through said cover into the box, said pegs lying in the holes of the second set and being manually movable therefrom and insertible in the hole corresponding to the animal and article called to the attention of the players, and an indicator pivoted to said cover and normally lying beneath the upper surface of the cover, said indicator having a stem extending beneath one of the holes of the first set, said indicator being tilted by the insertion of a peg in the last mentioned hole to cause the aforesaid indicator to rise above the cover and remain in that position while the said last mentioned peg remains in said last mentioned hole.

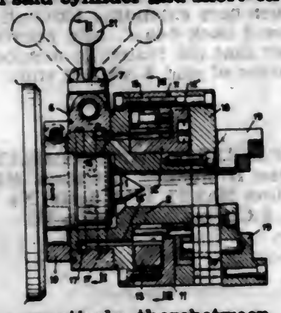
2,655,382
PUZZLE
Charles Belsky, Detroit, Mich.
Application April 26, 1949, Serial No. 89,664
3 Claims. (Cl. 273—155)



1. A puzzle comprising a single rectangular sheet of paper, arbitrarily selected lines imposed thereon defining the boundaries of a number of differently shaped and different sized geometrical figures, portions of a picture in some of the geometrical figures, said sheet to be folded on the arbitrarily selected lines so that the folded edges of some of the boundary lines of one or more of the geometrical figures will register with some of the boundary lines of other geometrical figures with at least some of the folds interlocking so that the sheet when folded presents a rectangular member of less area than the sheet before folding and a complete picture.

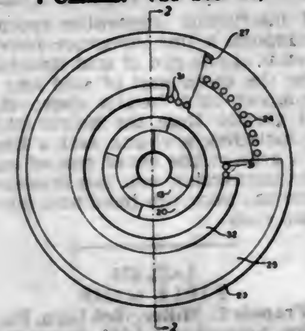
2,655,383
FLUID PRESSURE OPERATED ROTARY WORK OR TOOL HOLDER
Giuseppe Di Pale, Turin, Italy
Application August 21, 1951, Serial No. 242,939
In Italy October 21, 1950
1 Claim. (Cl. 279—4)

In a machine tool having a head-stock and a rotary spindle therein, a rotary support fast with said spindle, radially movable jaws carried by said support, irreversible means within said support actuating said jaws for radial movement, a pressure fluid working chamber within said support, a double acting rotary piston rotatable within said chamber coaxial with the spindle, said piston actuating said irreversible means for effecting the opening and closing movements of the jaws, a fixed collar embracing said support and formed with conduits for delivering and discharging pressure fluid to and from said pressure chamber, a working fluid reservoir in said collar, a manually operated cock means incorporated with said collar, said cock means having a cylinder communicating with the reservoir, and a cylindrical body rotatable and reciprocable within said cylinder, fluid passages within said body for selectively connecting each of said conduits with said cylinder and short-circuiting said



conduits respectively therebetween, by the rotation of the body within the cylinder, and non-return valves associated with said cylinder whereby said body and the cylinder provide a reciprocating pump delivering the working fluid from the reservoir to the working chamber.

2,655,384
PRELOADED AIR RELEASE CHUCK
Elwin L. Peterson, Falls Church, Va.
Application July 28, 1947, Serial No. 764,103
7 Claims. (Cl. 279—4)



1. A collet chuck for lathes or the like comprising a substantially circular open ended housing having an annular cavity therein and having a hole substantially in the center thereof, a collet threaded into said hole, a piston positioned in said annular cavity, said piston having a member for engaging and compressing said collet, means for normally holding said member in engagement with said collet, an aperture plate for substantially closing the open end of said housing, a disc shaped member supported on said apertured plate in space relation therewith whereby the apertures through said plate open into the space between said plate and said disc shaped member, a flexible seal for said space and means for forcing compressed air through said seal and said apertures into the space between said plate and said piston for releasing the pressure on said collet.

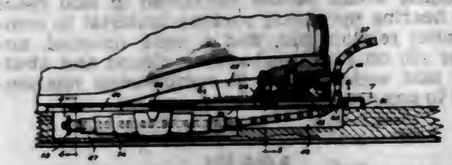
2,655,385
TOE STOP FOR ROLLER SKATES
Richard J. Neeshke, Los Angeles, Calif.
Application October 2, 1950, Serial No. 187,945
1 Claim. (Cl. 280—11.3)

In a toe stop for a shoe attached roller skate, a receiver body of hard material having a top face formed to provide a surface adapted to fit flat against the under surface of the forward end portion of the skate plate, said top face being offset transversely of the skate to provide a second surface on a plane parallel with and raised above the first surface to fit flat against the shoe sole forwardly of the skate plate, means on the upper portion of said body for securing the latter to the skate plate, said body having a flat face at the bottom thereof inclined with relation to the face at the top of the body and provided with a bore opening through the bottom face to



engage a screw for attaching the forward portion of the body to the shoe sole, and a stop member detachably mounted against the bottom face of the body, said body having a pair of complementary arms projecting rearwardly therefrom along the bottom of the skate plate with the top surfaces of the arm coplanar with the first stated top surface of the top face of the body, and said stop member having a non-circular shank inserted into a bore in the body for rotative adjustment of the stop member to selected angular positions.

2,655,386
SKI BINDING
Vigo Victor Kutschera, Spillmacheen, British Columbia, Canada
Application May 6, 1949, Serial No. 91,675
3 Claims. (Cl. 280—11.35)



3. A ski-binding comprising in combination with a ski having an open top recess, a heel plate secured on the ski and covering the recess and having a hole near its rear end, a coiled spring disposed in the recess and having its rear end fixed against rearward axial movement, a roller link chain passing through the spring and secured thereto at its front end and passing upward through the hole in the heel plate and adapted to catch with its links external of the recess on to a spur on the rear of a heel on the plate.

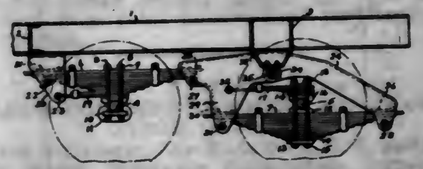
2,655,387
TABLE WITH RETRACTABLE CASTERS
Roy A. Cramer, Kansas City, Mo.
Application August 28, 1950, Serial No. 181,848
5 Claims. (Cl. 280—44)

1. A table of the character described comprising, a top, tubular legs supporting said top, said legs having bell-shaped bottoms forming hollow bases for said legs, casters having rods secured thereto extending upwardly through said tubular legs and to near the top thereof, guide sleeves in the top of said legs, said sleeves and the top of said legs having slots therein, said rods having threaded openings near the upper ends thereof, a pin extending through said slots and into said threaded openings for limiting sliding movement of said rods in said legs, sub-



stantially V-shaped arms pivotally mounted to the underneath side of said top, said arms having free ends engaging the top of said caster rods, and a lever engaging said arms for pivoting same to move the caster rods and extend the casters from said bases to raise the bases from a supporting structure.

2,655,388
SPRING SUSPENSION FOR VEHICLE TRAILERS
William C. Nabers, Mansfield, La.
Application September 21, 1949, Serial No. 116,969
1 Claim. (Cl. 280—104.5)

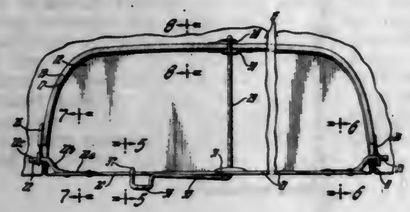


In a trailer vehicle, a frame, front and rear transverse supporting axles for the frame, tandem spring assemblies underneath each side of the frame and mounted on the axles, means supporting the frame on the forward end of the front spring assembly, an equalizer beam mounted on the frame to pivot on a transverse axis and supported on the rear ends of said spring assemblies, and also by the forward end of the rear spring assembly, and a forwardly extended radius bar secured to the rear axle and whose forward end is pivotally connected to said beam.

2,655,389
FENDER SHIELD
Theodore J. Sereka, Indianapolis, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 24, 1951, Serial No. 228,056
11 Claims. (Cl. 280—153)

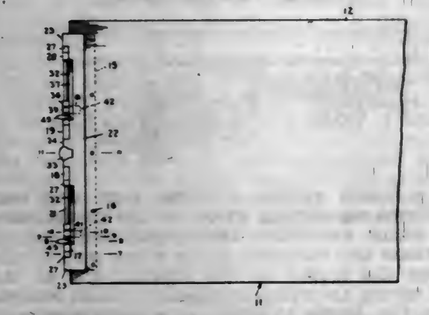
5. In a supporting and latching means for detachably securing a fender shield to a fender over a wheel opening therein including, a pair of trunnion members secured to the lower portion of said shield and projecting therebeyond, a pair of brackets secured to said fender, said

brackets being adapted to respectively receive and rotatably support said trunnions, a flange projecting inwardly and upwardly from the outer surface of said fender, a latch secured within said flange, a flange projecting inwardly and upwardly from the outer surface of said shield, said shield flange being substantially parallel to said fender flange and being adapted to abut thereagainst, a locking means secured to said shield, said locking means being adapted to rotatably en-



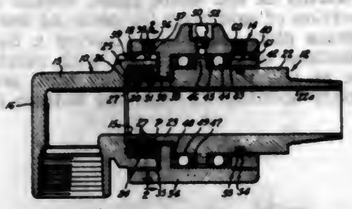
gage said latch thereby moving said shield flange laterally into engagement with said fender flange, said shield flange being adapted to slide downwardly on said fender flange during the lateral engagement therewith thereby forcing said shield downwardly, the downward movement of said shield being resiliently opposed by said trunnion members whereby the shield is urged upwardly into engagement with the fender with a force proportional to said sliding movement.

2,655,290
BOOKKEEPING MECHANISM
Walter A. Brucker, Miami, Fla.
Application April 22, 1952, Serial No. 283,697
3 Claims. (Cl. 282—29)



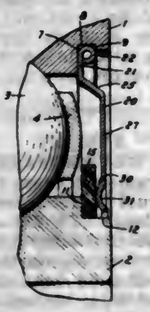
1. A bookkeeping device comprising a rigid rectangular tablet, a plate member secured to the bottom surface of said tablet and extending parallel to a side margin of the tablet, a plurality of hinge loops formed on said plate member adjacent the side marginal edge of the tablet, a hinge rod secured in said loops, a wide arcuate clamping plate pivoted on said rod and extending over said side margin, leaf springs operatively connected to the under face of said clamping plate biasing the clamping plate downwardly into engagement with the tablet to hold in its grip an account card, a narrow clamping plate pivoted to said rod and extending beneath the first-named clamping plate, said second-named clamping plate being slidable on said rod, and spring means operatively connected to said second named clamping plate and biasing said second-named clamping plate into engagement with said tablet.

2,655,291
HIGH-TEMPERATURE AND PRESSURE PACKING GLAND
Earle R. Atkins, Whittier, Calif.
Application May 8, 1950, Serial No. 160,786
9 Claims. (Cl. 285—97.1)



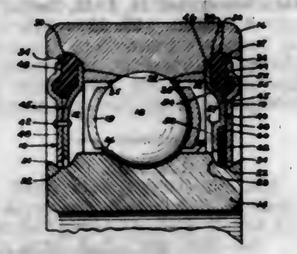
1. In combination in a swivel joint for conducting fluids: a hollow joint member having a bore therein provided with an annular, angular seat for receiving packing material; a rotary member having a first portion adapted to be received in said joint member adjacent said seat and in engagement with packing material therein; means on said joint member overhanging an intermediate portion of said rotary member; bearing means disposed between said overhanging means and said intermediate portion and centering the latter in the former, said first portion of said rotary member and portions of said joint member about said seat forming a space for receiving packing maerial, each of said seat and said first portion having groove means formed therein facing said space; packing material filling said space and said groove means, each groove means providing a plurality of angular means for engaging said packing material and serving in combination therewith as resistance means to prevent fluid flow between said packing material and adjacent walls of said members; and mechanical compression means bearing against said packing material and placing the same under compression to force the latter into said groove means, said compression means including wedge means positioned in said space and bearing upon said packing material in compression relationship, and a rigid, internal, annular rib on said overhanging means and abutting said wedge means in compression relationship to compress said packing.

2,655,292
SHIELDED ANTIFRICTION BEARING
Cone W. Lighthall, Ann Arbor, Mich., assignor to Hoover Ball & Bearing Company, Ann Arbor, Mich., a corporation of Michigan
Application July 2, 1949, Serial No. 102,803
1 Claim. (Cl. 286—5)



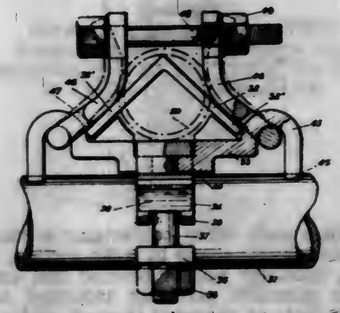
A seal structure in a bearing which has an outer race member, an inner race member, rolling elements between the race members, wherein the outer race member has an inwardly facing groove, the inner race member has a formation presenting a circumferential surface substantially concentric with the axis of the inner race member, and a substantially radial shoulder extending radially outwardly from said circumferential surface comprising, a first sealing ring of fabric reinforced thermo-setting material positioned on said circumferential surface and abutting against said shoulder, the radial dimension of said sealing ring being in excess of that of the shoulder so as to extend radially outwardly therefrom and thereby constitute an oil slinger, a second sealing ring of thin elastic metal having its outer peripheral portion anchored in the groove of the outer race member and having an inner marginal portion overlapping the first sealing ring on the outside thereof which is the side opposite the side of the shoulder and rolling elements, said marginal portion having a part fashioned into concavo-convex cross sectional form and the convex face thereof being in yieldable engagement with the outer face of the first named sealing ring, said convex surface engaging the first named ring substantially opposite said shoulder so that the first sealing ring is compressively held against said shoulder, and whereby the outwardly extending portion of the first named sealing ring is spaced from the second named sealing ring for oil slinging purposes.

2,655,293
DEMOUNTABLE SEAL
Leland D. Cobb, Forestville, Conn., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 28, 1950, Serial No. 158,818
7 Claims. (Cl. 286—5)



3. In a unit-handling closure for demountable positioning across an annular lubricant chamber between a pair of relatively rotatable members, one of said members having an annular recess radially opening towards the other member, said other member having an annular seal-receiving groove radially opening towards the annular recess, a pair of adjacent annular shields extending across the lubricant chamber and cooperatively providing an annular channel opening towards the seal-receiving groove, a yieldable sealing washer in the channel and sealingly engaging a wall of said groove, a laterally offset annular portion on one of the shields providing between the shields an annular groove radially opening towards said recess, and a ring of elastomeric material deformably clamped by the shields in said last-mentioned groove and radially extending beyond the shields into demountably seated compressed sealing engagement with a wall of said annular recess.

2,655,294
CONNECTION FOR SCAFFOLDINGS, SHELVES, RACKS, AND LIKE STRUCTURES
Carlo Caminati, Paris, France, assignor to Tubcor International, Paris, France, a corporation of France
Application January 21, 1950, Serial No. 139,826
In France January 26, 1949
4 Claims. (Cl. 287—54)



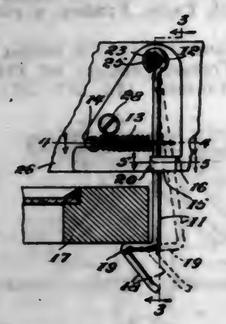
1. A connection for scaffoldings, shelves, racks and like collapsible structures, comprising two stirrups that are removably engaged with one another by their medial portion and associated with clamping means, one at least of said stirrups exhibiting a wide-based central portion capable of accommodating elements of the structure of various sections and having bent back wing portions whose free ends bear against one of the elements of the structure, said stirrup being associated with clamping straps each of which is hinged at one end to an arcuate portion of one of said wings and being tightened at the other end against another element of the structure and against the other strap by a bolt and nut device, the said straps bearing against the said other element at a point intermediate the length of said straps.

2,655,295
LOCK FOR REFRIGERATOR DOORS OR OTHER CLOSURES
Alfred H. Groeger, New Hyde Park, N. Y., assignor to Kason Hardware Corporation, Brooklyn, N. Y.
Application June 21, 1949, Serial No. 100,318
14 Claims. (Cl. 292—92)



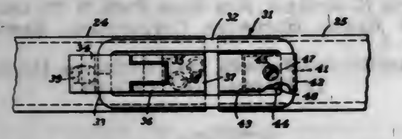
1. In combination, a lock casing adapted to be fixed to a door, a handle pivoted to said casing, said casing and handle being formed with registering openings, a latch pivoted to said casing and movable independently of said handle, means on the handle to rotate said latch for retracting the same, upon swinging said handle in one direction, means operable from the inside of the door to retract said latch independently of said handle, means to prevent retraction of said latch upon inserting a member through said registering openings, and means effective upon operating the means operable from the inside of the door for releasing said preventing means.

2,655,396
CELLAR WINDOW HOOK
Joseph F. Oblazney, Camden, N. J.
Application August 13, 1951, Serial No. 241,654
1 Claim. (Cl. 292—128)



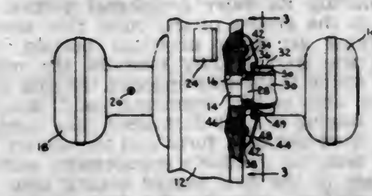
A window sash latch comprising a mounting plate of triangular shape in cross-section, a hook having a shoulder with a beveled end extended from the shoulder pivotally mounted on said mounting plate at the apex thereof, and a spring positioned on the mounting plate, attached at one end to an L-shaped clip integral with one end of the base of the plate at one end of the base of the plate and at the other end to the hook, an L-shaped finger on the mounting plate integral with the end of the base opposite to the end where the spring is attached for limiting the travel of the hook, and said hook is provided with an eye and the hook is pivotally mounted on the mounting plate by means of an open rivet whereby a fastener for holding the mounting plate in position is extended through said open rivet.

2,655,397
TANK CLOSURE FASTENER
Luther S. Augspurger and Delmas F. Hasse, Rockford, Ill., assignors to Aaero Manufacturing Co., Rockford, Ill., a corporation of Illinois
Application April 30, 1949, Serial No. 90,715
6 Claims. (Cl. 292—256.69)



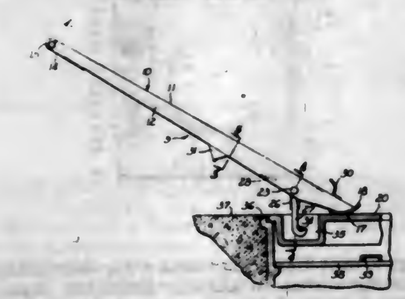
1. In a receptacle, a closure, a fastening band element to surround the receptacle and closure separable at a portion thereof, tightening means for said band element adjacent said portion comprising an elongated, over-center, toggle locking member pivoted at one end to the band element on one side of said separable portion, a toggle draw link pivoted at one end on said locking member intermediate the ends thereof, and adjustable means on said band element on the other side of said separable portion engageable by the other end of said toggle draw link consisting of an abutment plate which in different positions of rotary adjustment permits different degrees of tightening of said band element when the locking member is moved over-center to locking position, said adjustable means including an attaching plate affixed to said band element having a forked end remote from said toggle locking member and adapted to receive the end of said draw link, and said abutment plate being detachably mounted in said forked end on a bolt carried on said attaching plate and entered in an eccentric hole provided therefor in said abutment plate, said bolt being removable to permit assembly of said abutment plate in the forked end of said attaching plate in different positions of rotary adjustment.

2,655,398
SAFETY DEVICE FOR DOORKNOB LOCKS
Lester W. Birbaum, Oconomowoc, Wis., assignor to La Belle Industries, Inc., Oconomowoc, Wis., a corporation of Wisconsin
Application May 5, 1950, Serial No. 160,369
5 Claims. (Cl. 292—356)



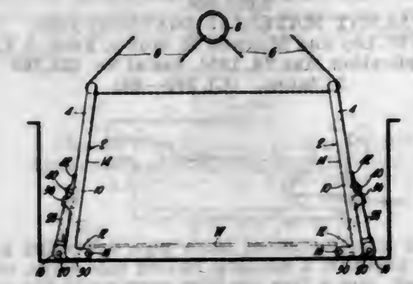
5. Apparatus for preventing lateral movement of a doorknob having a cylindrical shank, comprising, a hub plate adapted to be secured to a door and having a cylindrical hub portion adapted to snugly fit over a substantial portion of said cylindrical shank to transmit lateral forces from the knob to the door, and a centrally apertured dished rose plate having a press fit on said cylindrical hub portion of said hub plate and abutting said door to cover the hub plate and the means securing the hub plate to the door.

2,655,399
LIFTING DEVICE FOR SUBSTRUCTURE COVERS
Gilhome W. J. McMillan, Montebello, Calif.
Application November 26, 1948, Serial No. 62,628
1 Claim. (Cl. 294—17)



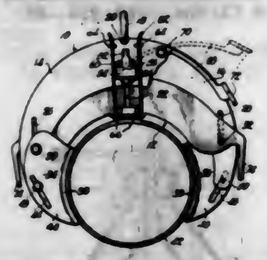
A lifting device adapted for lifting a vault cover, said cover having an internal abutment by which it can be lifted from a supporting frame, comprising: a lifter bar of channel shape cross section having a top wall and depending side walls, the bottom edges of said side walls at one end of said bar terminating in curved surfaces; a curved elongate shoe secured to and extending between said curved surfaces, said shoe being restable against the exposed surface of the cover; a transverse handle secured to the other end of said bar; and a hook member pivoted between said side walls adjacent said shoe and having a curved hook portion engageable beneath said abutment of the cover, said shoe and said hook member together rigidly connecting said lifter bar to the cover, when an upward force is applied to said bar through said handle, so as to effect unitary pivotal movement of said bar and the cover with respect to the supporting frame, said curved shoe being wider than said bar so as to provide a bearing surface of sufficient width to avoid excessive longitudinal axial rotation of said bar with respect to the cover upon which said shoe rests.

2,655,400
SELF-DISENGAGING LIFT HOOK
Anthony J. Byron, Carnegie, Pa.
Application October 31, 1951, Serial No. 254,695
4 Claims. (Cl. 294—83)



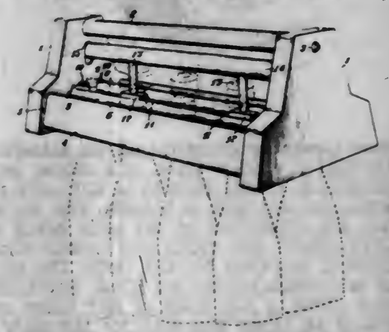
1. Apparatus for handling flat plates or the like having a pair of lifting hooks each supported at its upper end by a flexible member, each lifting hook comprising a U-shape member having an eye in the upper portion thereof and two legs in spaced parallel relation, a foot portion integral with the bottom of each of said legs and extending normal thereto for supporting one edge of said flat plate, a dog pivotally mounted at one end adjacent the inner side of each of said foot portions, each of said dogs extending from said pivoted end to a point rearward of said legs, a rotatable shaft connecting the rearward portions of said dogs with its ends fitted therein, a collar mounted for rotational movement on said shaft intermediate its ends, a vertical pin element attached to said collar and extending upwardly therefrom, and means for lifting said pin to rotate said dogs to thereby disengage said hook from contact with the plate.

2,655,401
PIPE CARRYING CLAMP
Clarence L. Kelso, Olden, Okla.
Application August 23, 1948, Serial No. 45,696
5 Claims. (Cl. 294—86)



1. Material handling apparatus comprising a pair of relatively shiftable frame members; a pair of opposed jaws mounted on one of said frame members, at least one of said jaws being swingable on said one frame member toward and from the other jaw; means connecting said one jaw and the other of said frame members for controlling the swinging movement of said one jaw as the members are relatively shifted; and means for guiding the said one jaw at the point of swinging movement thereof on the one frame member through a predetermined path of travel as the frame members are relatively shifted, said means for controlling the swinging movement of said one jaw comprising structure for guiding a portion thereof remote from said point of swinging movement in a path of movement at an angle to said path of travel.

2,655,402
BOTTLE HANDLING DEVICE
Elmer Johnson, Middlesboro, Ky.
Application May 22, 1951, Serial No. 227,544
13 Claims. (Cl. 294—87.24)



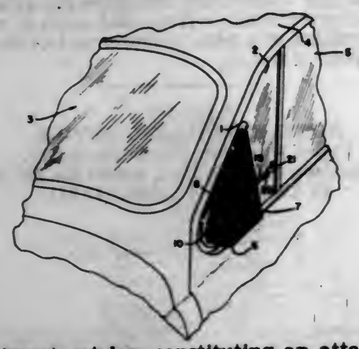
13. A bottle lift comprising a pair of spaced end members, a side bar fixed at opposite ends to said end members, a lifting bar extending between the end members and spaced laterally from the side bar, each of said bars being elongated transversely of the length thereof in an upward direction relative to the lift, said lifting bar having trunnions at opposite ends thereof at its lower edge journaled in the end members and having trunnions at opposite ends thereof at its upper edge extending into the end members, said end members having grooves therein receiving the last-mentioned trunnions for lateral swinging movement of the lifting bar toward and from the side bar about the axis of said first-mentioned trunnions, and means for locking the lifting bar in inwardly clamping relation relative to the side bar.

2,655,403
CONTAINER HOLDER
Fred Ernest, Gardena, Calif.
Application October 4, 1948, Serial No. 52,775
5 Claims. (Cl. 294—99)



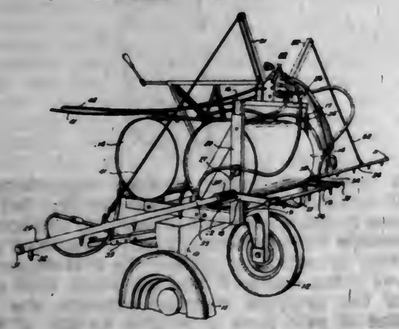
1. A unitary gripping member comprising a pair of substantially arcuately extending flexible members forming jaws joined together in opposed relationship for substantially circumscribing and resiliently gripping an article, the extremities of the jaws being spaced from each other, that portion of the gripping member opposite the extremities of said jaws extending axially of said arcuate jaws a distance comparable with the maximum separation of said flexible members; and a support connected to said portion.

2,655,404
INSECT CATCHER FOR AUTOMOBILES
George Cash, Sandpoint, Idaho
Application November 30, 1950, Serial No. 198,385
1 Claim. (Cl. 296—44)



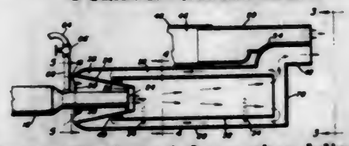
An insect catcher constituting an attachment for a ventilator window pane of a motor vehicle and comprising a body formed of stiff wire mesh and having an end wall, a bottom, and an outer side wall, the other end of the body being open for its full height and width and constituting an unobstructed entrance for the body, the bottom and the said walls having marginal edges united with each other, a flat plate of stiff sheet metal constituting an inner side wall for the body and to edges of which marginal edge portions of the said end wall and the bottom are firmly secured tongues and rigidly secured hooks integral with and extending laterally from marginal edges of said plate adjacent the bottom and the end walls at the closed end of the body and engageable across the lower edge and the front edge of the ventilating window pane, a tongue integral with and extending from the marginal edge of said plate at the open end of the body and formed with an opening, a spring having an inner end mounted through the opening in said tongue, and a hook connected with the outer end of said spring and engageable across the rear edge of the ventilating pane to hold the spring extended and thereby exert pull upon the plate transversely thereof and firmly hold the hooks at the opposite side edge of the plate in anchoring engagement with the front edge of the ventilating window pane.

2,655,405
MOBILE SPRAYING EQUIPMENT
Emert J. Lattner, Cedar Rapids, Iowa
Application October 19, 1949, Serial No. 122,296
1 Claim. (Cl. 299—42)



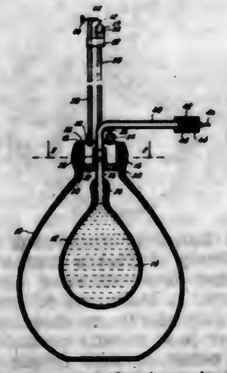
In a sprayer, a left boom, center boom and right boom, conduits leading to these three booms, a utility hose and a valve for selectively supplying spraying fluid to these outlets comprising a drum-like valve housing having a plurality of ports in one wall thereof, conduits connecting the booms and hose each to a port, the said wall also having a bypass port and check valve therein, a disc valve having a plurality of openings therethrough to uncover the various ports singly or in combination, a port in the wall leading into the interior of the valve housing, a rod and lever for rotating the disc, the valve housing being mounted near the operator so he may effect distribution to the various outlets without leaving his seat.

2,655,406
FLUENT MATERIAL DISTRIBUTOR
Cyril W. Loy and Maxwell H. Mullis, York, S. C.
Application May 24, 1951, Serial No. 228,104
3 Claims. (Cl. 299—86)



1. In an attachment for a pipe delivering gas under pressure, a housing having side walls, one end wall, and a free air inlet opening in the opposite end of the housing, an inwardly directed and tapered air deflector located in said housing and said air inlet opening, means for supporting the gas discharge end of the pipe within and adjacent to the discharge end of said deflector, a sleeve disposed in said housing and extending axially thereof, said sleeve being spaced from the inner surface of said housing to provide an air passage between said sleeve and said housing, said sleeve being arranged to conduct air from said deflector and gas from the pipe against said end wall whence some of the air and gas is directed through said passage, the end of said sleeve adjacent to said deflector being spaced from the deflector to provide an inlet to deliver gas and air from said passage into said sleeve, and an outlet member connected with said housing adjacent to said end wall and opening into said housing at the place where said passage communicates with the discharge end of said sleeve.

2,655,407
SELF - FILLING, HAND - OPERATED ATOMIZER OR SPRAYING DEVICE
Nelson Catlin Ingell, Brooklyn, N. Y.
Application September 25, 1952, Serial No. 311,357
8 Claims. (Cl. 299—89)



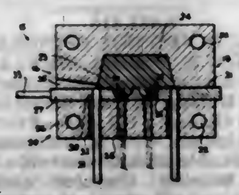
1. In an atomizer of the type including a nozzle for the delivery of the liquid to be atomized and an air delivery nozzle for forcing a current of air across the end of the liquid delivery nozzle, spaced outer and inner flexible self-distensible bulbs, the inner bulb being located entirely inside the outer bulb and adapted to contain the liquid to be atomized, means including an air inlet check valve for admitting air to the outer bulb, an air tube for delivering air from the outer bulb to the air delivery nozzle, a tube having a non-return valve therein for conducting liquid from the inner bulb to the liquid delivery nozzle, a filling tube connected into the inner bulb for delivering liquid thereto, a filling valve in said filling tube biased to closed position for preventing discharge of liquid from the inlet of the filling tube, and means for actuating the valve in the filling tube for admitting liquid thereto.

2,655,408
NOZZLE
Charlie D. Williams, Pasadena, Calif.
Application May 6, 1950, Serial No. 160,481
3 Claims. (Cl. 299—154)



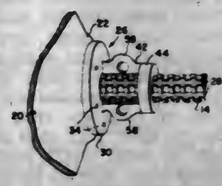
1. A nozzle for forming a broad flat high velocity liquid stream comprising a tubular member, means at one end of the tubular member for connection to a source of liquid, a restricted passageway in the opposite end of the tubular member giving access to the end opening of the tube, the passageway being defined by opposing flat portions of the tube wall disposed parallel to each other and substantially equidistant from and parallel to the longitudinal axis of the tube, the spacing between said flat portions of the tube wall defining the minor axis of said end opening, the said flat portions of the tube walls having the shape of circular segments on a chord which defines the major axis of said end opening and is of larger dimension than the diameter of the tube immediately preceding the passageway, the passageway defined by said flat wall portions being longer centrally of the tube than it is adjacent the outer extremities of the major axis of said opening.

2,655,409
ART OF AND APPARATUS FOR MOLDING BRUSHES
Nicholas T. Baldanza, Rutherford, N. J., assignor, by mesne assignments, to Columbia Protektosite Co., Inc., Carlstadt, N. J., a corporation of Delaware
Application July 5, 1947, Serial No. 759,142
15 Claims. (Cl. 300—21)



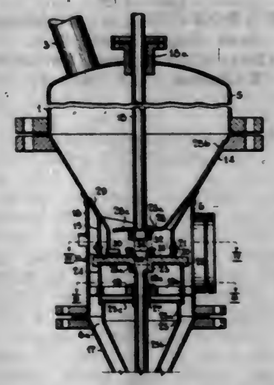
1. The method including feeding in operative position long bristles to an openable mold cavity, molding a brush back in the cavity for connecting the bristles thereto, opening the cavity and causing movement of the brush back with corresponding feeding movement of the bristles, then tuft-cutting the bristles while applying heat at the point of cutting to fuse together the remainder of the long bristles in said operative position.

2,655,410
WHEEL AND AXLE ASSEMBLY FOR VARIABLE TREAD VEHICLES
Theophilus Brown, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application November 12, 1949, Serial No. 126,822
3 Claims. (Cl. 301—1)



3. In combination, an axle having a threaded end and a longitudinal groove in said axle end, a wheel hub threaded onto said axle end and having an end flange for attachment of a wheel to one side thereof, said hub having an opening therein on the other side of said flange extending longitudinally along said axle end and terminating on said other side of said flange, a substantially semi-cylindrical closure plate for said opening fitting therein against said axle end and detachably attached to said hub, and means on said plate fitting in said groove to lock said hub to said axle end.

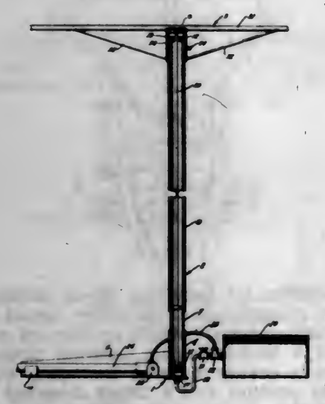
2,655,411
METHOD AND APPARATUS FOR HANDLING FLUIDIZABLE FINELY DIVIDED SOLID MATERIALS
Lester H. Smith, Maplewood, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application January 2, 1952, Serial No. 264,516
3 Claims. (Cl. 302—49)



1. Apparatus for handling finely divided solid materials, comprising a container vessel, an inverted frusto-conical bottom portion on said vessel having a bottom outlet opening downwardly therefrom, a casing member including an upper cylindrical portion and a lower inverted frusto-conical outlet portion, the upper end of said cylindrical portion secured to the exterior surface of said vessel bottom portion and dependent therefrom, enclosing said bottom outlet in radi-

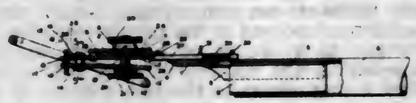
ally spaced relation thereto, said casing member being disposed in coaxial relation to said vessel, a cylindrical outlet nozzle element, having upper and lower edge portions, secured to the vessel bottom outlet by the upper edge portion and dependent therefrom in eccentric relation to the axis of said vessel and casing, in radially spaced relation to said casing, a rotatable drive shaft extended downwardly through said vessel into said casing and concentrically thereof, terminating in spaced relation to the casing outlet, a circular plate member mounted coaxially with said shaft with the upper surface of said plate in sliding surface contact with the lower edge portion of said nozzle outlet, said outlet and plate being eccentrically related, one to another, a dependent peripheral lip on said plate, a plurality of recessed pocket portions in the upper surface of said plate, disposed therein as an arcuately spaced ring of pockets, said ring spaced radially from the periphery of said plate, whereby upon rotation of said shaft and plate said pockets are successively moved into and out of the interior space defined by said nozzle element and plate, means interiorly of said vessel bottom portion and nozzle for directing solid materials into said pockets, conduit means exteriorly of said nozzle for directing a stream of gaseous material angularly against said plate beyond the nozzle and into said pockets, a fixed cylindrical shield member below said plate inwardly of the lip thereon and in telescopic coaxial relation thereto, a hollow filler-agitator element carried by said shaft extending upwardly into said shield in telescopic relation thereto, and downwardly into the outlet portion of said casing member, said filler-agitator element substantially corresponding in shape to said casing element and spaced radially with reference to the inner walls thereof to form an annular passageway of downwardly decreasing cross-sectional area, separate conduit means for respectively introducing finely divided solid materials into said vessel, for supplying a gaseous material to said nozzle means, and for removing gaseous materials and solid materials from the outlet portion of said casing member.

2,655,412
LIFT FOR CEILING BOARDS
Jack Jones, Eden, Tex.
Application December 22, 1947, Serial No. 793,207
2 Claims. (Cl. 304—9)



1. A demountable lift comprising, a base having a socket therein provided with an opening in its bottom, a standard comprising upper and lower telescoping sections with the lower section having a piston chamber therein and a threaded tubular projection at its lower end in communication with said chamber adapted to project through the opening in the base socket when the lower section of the standard is seated in said socket, a platform removably secured to said upper section, a piston in said chamber connected to said upper section of the standard, and a closed fluid system to move said piston in said chamber including said lower section of the standard, a tank to receive an elastic and compressible fluid under pressure, a conduit connected to said tank and having a coupling on its other end for engagement with said threaded projection on said standard lower section to connect said tank to said piston chamber and lock said lower section to said base, and a valve in said conduit between said tank and said chamber to hold fluid within said tank and to release it therefrom.

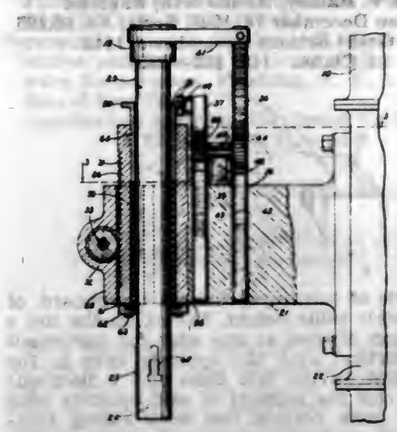
2,655,413
ADJUSTABLE CONNECTOR DEVICE FOR MOP OR BROOM HANDLES
Homer A. Russell, Portland, Oreg.
Application May 16, 1951, Serial No. 226,627
4 Claims. (Cl. 306—15)



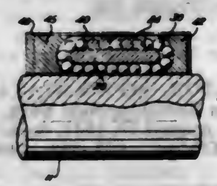
1. An adjustable connector device for mop and broom handles comprising a member for attachment to a handle and including a flat end portion having an aperture, a bolt in said aperture, a clamp device having a pair of arm plates relatively adjustable toward and from each other, said arm plates being mounted on said bolt on one side of said flat end portion and pivotal relative to said flat end portion, said clamp device having clamp portions disposed at right angles to said bolt for clamping a cross-bar on a mop or broom frame, a friction plate mounted on said bolt on the opposite side of said flat end portion from said clamp device, downturned ears on said friction plate beyond the flat end portion and straddling the nearest clamp plate to retain said clamp and friction plates in fixed angular relation with respect to the flat end portion sandwiched therebetween, and a nut on each end of said bolt for respectively adjusting the tension between said friction plate and said clamp device and the tension between said clamp portions and the frame cross-bar by adjustment of said clamp plates.

2,655,414
MACHINE TOOL SPINDLE
Ottis R. Briney, Jr., Pontiac, Mich., assignor of one-half to James W. Briney
Application October 6, 1948, Serial No. 53,000
3 Claims. (Cl. 308—6)

1. In combination with a machine tool embodying a rotatable axially movable spindle, an anti-friction bearing therefor comprising a bored member constituting an outer ball race, a ball separator mounted for axial movement therein, a plurality of balls supported in said separator and engaging said bored member and said spindle, a bar mounted in the machine tool for reciprocative movement parallel to the axis of said spindle, supporting means on said bar engaging with said separator, and means associated with the bar and with the spindle to control the reciprocative movement of said separator.



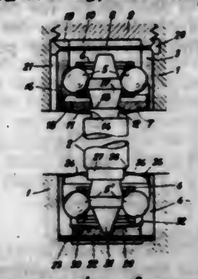
2,655,415
BALL BEARING
Ottis R. Briney, Jr., Pontiac, Mich., assignor of one-half to James W. Briney
Application October 14, 1948, Serial No. 54,485
2 Claims. (Cl. 308—6)



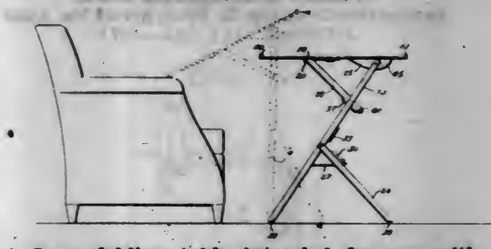
1. An anti-friction bearing to accommodate rotative and axial movement of a shaft, comprising a ball cage having a bore therein, a shaft in said bore, said cage having an annular recess therein intermediate the ends thereof, a tubular ring disposed in spaced relationship with the shaft, ribs on the outer face of the ring engaged with the inner wall of the recessed portion of said cage, the walls defining the ends of said recess having annular grooves therein constituting passageways connecting the voids between the ribs with the void between the tubular ring and shaft, and balls arranged to roll within said passageways, the voids, and against each other.

2,655,416
LUBRICATING DEVICE
Robert Annen, Bienne, Switzerland, assignor to Roulements a Billes Miniatures S. A., Bienne, Switzerland
Application April 10, 1950, Serial No. 154,970
In Switzerland May 5, 1949
5 Claims. (Cl. 308—124.1)

1. Vertical shaft support comprising in combination, a bearing bushing, a shaft journal formed with an inverted frusto-conical axial section vertically extending into said bushing and capable of acting as a liquid elevator, an oil reservoir concentrically arranged in said bushing and surrounding the narrower part of said journal with a clearance of small capillary width, means for otherwise hermetically sealing off the interior of said bearing, and elastic means adapted to take up any rise of pressure within said sealed space.



2,655,417
FOLDING TABLE
Albert M. Zalkind, Arlington, Va.
Continuation of application Serial No. 777,800, October 3, 1947. This application June 18, 1948, Serial No. 33,701
5 Claims. (Cl. 311—93)

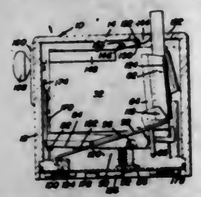


1. In a folding table intended for use with a supplementary support such as the arms of a chair; a table top, a main leg means pivotally connected thereto and having lower tip means adapted to engage a floor, said table top and said main leg means being free to pivot with respect to each other, arm means pivotally connected to said main leg means and having free end means arcuately movable with respect to said main leg means, including biasing means for biasing said arm means rotatably to urge the free end means toward said table top, abutment means carried by said table top on the under surface thereof and engageable with said free end means, pivotable downward motion of said table top being operative to rotate said arm means in a direction opposite to the direction of said bias of said arm means and into engagement with said abutment, the weight of said table top being sufficient to overcome the force of said biasing means, and rear leg means having a pivotal connection with said main leg means and being pivotal with respect thereto independently of said arm means, said rear leg means having extremities adapted for sliding contact with a floor and being longer than said main leg means from the pivotal connection therebetween to the floor so as to be actuatable pivotally away from said main leg means by reaction against said floor when said main leg means is pivoted on said floor in a direction away from a supplementary support.

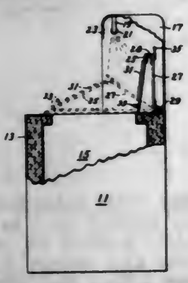
2,655,418
AUTOMATIC CIGARETTE DISPENSER
Charles H. Oerding, Coquille, Oreg.
Application December 11, 1950, Serial No. 200,229
7 Claims. (Cl. 312—75)

1. A cigarette dispenser comprising a casing, a hopper adapted to receive cigarettes in a hori-

zontal position, a chute extending from said hopper, carrier means disposed horizontally adjacent the orifice of said chute for receiving a cigarette from said chute, means for moving said carrier means into an ejecting position transverse its cigarette receiving position, and means for ejecting a cigarette from said carrier means, said casing having a door therein adjacent said hopper to permit filling of said hopper, means responsive to opening of said door for preventing actuation of said carrier moving means.

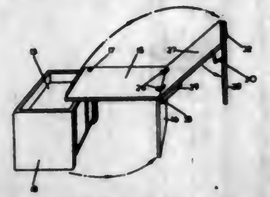


2,655,419
REFRIGERATOR APPARATUS
Nicholas Achs, Detroit, Mich.
Application January 26, 1948, Serial No. 4,393
3 Claims. (Cl. 312—227)



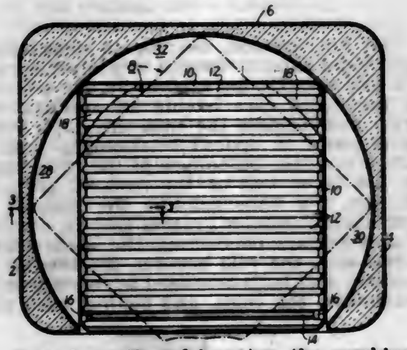
1. In a door opening and viewing arrangement for a top opening refrigerator the combination of, thermal insulating wall means enclosing a cabinet having a storage compartment with a top opening, a front door panel, a rear door panel, the length of each of said door panels being greater than the length of the top opening of the cabinet from side-to-side, the combined coextendable widths of the two door panels being greater than the width of the top opening from front-to-back for covering said top opening when closed down in a coextending relation thereon, hinge means pivotally securing the rear edge of the rear door panel on the top of said cabinet at a position spaced rearwardly from the rear edge of the top opening suitably to provide space for receiving both door panels folded back from said top opening, hinge means pivotally joining the front edge of the rear door panel to the rear edge of the front door panel so that by laying the two joined door panels coextensively upon the top of the cabinet the top opening can be closed and it can be opened by turning the pivotally joined edges of the panels up, the dimensions of said panels having relative widths which facilitate folding the two panels back upon the top of the cabinet in an up-standing relation to the rear of the opening for convenient access into the storage compartment, and viewed means on the outer surface of the front door panel for exposure to room air when the door is closed down upon the cabinet and exposed frontwardly for convenient observation when the door is opened up and folded back in an up-standing position upon the cabinet.

2,655,420
ARTICLE OF FURNITURE
John V. Hadley, Kenilworth, England
Application December 14, 1948, Serial No. 65,105
In Great Britain November 8, 1948
1 Claim. (Cl. 312—282)



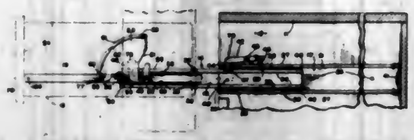
An article of furniture, such as a cupboard, of approximately table height, having on the top a table portion pivoted at one edge for movement about a vertical axis, the opposite edge of the table portion having fast therewith a floor-engaging leg for the support of said opposite edge when the table portion has been swung horizontally and outwardly from said article of furniture, and said opposite edge having hinged to it a table part which is hinged, in turn, to a leg part; the hinges of said table part and leg part permitting them to be folded flat upon said table portion or to be opened out so that said table portion and table part will form a substantially continuous table surface of which the major dimension exceeds the major dimension of said article of furniture and which is supported at one end by said article of furniture, at the other end by said leg part, and intermediately by said floor-engaging leg.

2,655,421
REFRIGERATOR WITH ROTATABLE SHELF
Sidney Babiskin, New York, N. Y.
Application August 20, 1948, Serial No. 45,315
2 Claims. (Cl. 312—305)



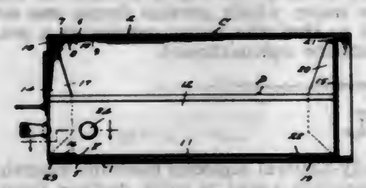
1. In a domestic refrigerator, the combination of, a cabinet structure enclosing a food storage space which is substantially square in horizontal cross-section, a shelf which is substantially square with rounded corner and of such size and shape as to substantially fit snugly within said food storage space to support food or the like, said cabinet structure having in the vertical surfaces defining said food storage space three horizontally aligned arcuate slots respectively in three vertical side walls with each of said slots having its maximum depth at the vertical center line of its wall and so arranged that said shelf may be turned in a horizontal plane whereby the side adjacent the front of the refrigerator can be moved to the rear thereof.

2,655,422
PIVOTALLY MOVABLE SLIDING BRACKET FOR DRAWERS OR SHELVES AND LOCKING MEANS THEREFOR
Seymour I. Gussack, Flushing, N. Y., assignor, by mesne assignments, to Grant Pulley & Hardware Corporation, Flushing, N. Y., a corporation of New York
Application April 24, 1951, Serial No. 222,682
1 Claim. (Cl. 312—333)



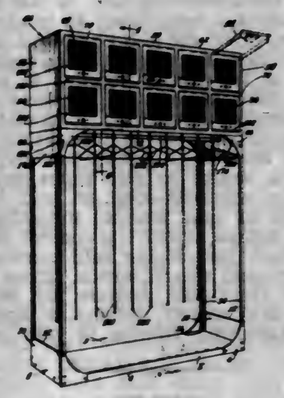
In a cabinet for slidably and pivotally supporting a drawer and chassis for carrying electronic units, the combination comprising side walls in said cabinet, stationary outer channeled members fixed to said side walls of said cabinet, intermediate channeled members slidable within said stationary channeled members, central inner members slidable within said intermediate channeled members, a drawer mounted on and between said inner members, locking means pivotally attached to the said stationary channeled members, said locking means comprising lever members pivotally mounted upon said outer channeled members and having depending dogs engageable through orifices in the upper flanges of said outer channeled members and through orifices in the upper flanges of said intermediate channeled members, spring elements engageable between one end of the said pivotal locking means and the upper flanges of said stationary member to urge said depending dogs through and into said orifices upon the said outer stationary channeled members and intermediate channeled members, cams upon the said slidable inner central members engageable with a pin upon the said locking member to release same when the said drawer is in closed position.

2,655,423
SLIDING DRAWER TRANSFER FILE
Arthur Clare Strayer, Beaver, Pa.
Application December 14, 1949, Serial No. 132,863
2 Claims. (Cl. 312—346)



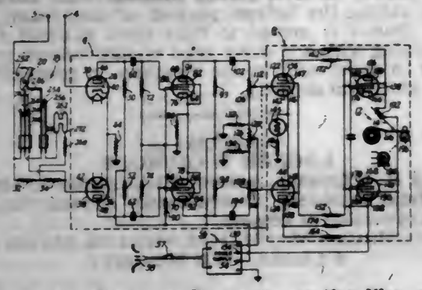
1. In a file transfer drawer, including a casing having an open front compartment to slidably receive the drawer, said compartment having top, bottom, side and rear end walls, a frame fitted within the open front of the compartment, said drawer comprising bottom, side, front and rear end walls with the latter walls extending equally above the side walls, a pair of stop elements of inverted L-shaped cross-section disposed in rear of the opposite ends of the top portion of said frame, inwardly and upwardly inclined resilient wedge members disposed immediately in rear of said stop elements for cooperation with the top edge of the said drawer rear end wall to aid in preventing sagging of the drawer when it is moved to fully open position, and a pair of transversely spaced blisters formed in the said drawer bottom wall toward its rear end to support the inner end portion of the drawer in level sliding position, said blisters over-riding the bottom portion of said frame as the drawer is moved to fully open position and engaging with the outer edge of said bottom portion to assist said wedge members in preventing the aforesaid sagging.

2,655,424
LOCKER WARDROBE
John R. O'Conner, Aurora, Ill., assignor to Lyon Metal Products, Incorporated, Aurora, Ill., a corporation of Illinois
Application May 21, 1945, Serial No. 594,980
4 Claims. (Cl. 312—351)



2. A locker wardrobe comprising a wardrobe portion and a box-like portion thereabove, said box-like portion including a plurality of walls dividing the same into a row of locker compartments each having a door opening, and a door for closing the opening, a support member secured in the upper part of the wardrobe space below the box-like portion, said support member providing a horizontal and an upstanding flange, said support member having a plurality of slots located in predetermined spaced relation along the length of said support member and each of said slots extending through both said flanges, and a plurality of coat hangers each having an upstanding shank provided with an eye therethrough and a cross support, said upstanding shank being adapted to pass through the slots in said support member and said cross member being adapted to straddle the portion of the slot formed in said horizontal flange, and an elongated flexible member having one end permanently attached to said locker wardrobe adjacent one of said slots, said elongated flexible member being adapted to be extended through the sleeve or opening of a garment supported on a hanger, the shank of which extends in said last-named slot and said elongated flexible member passing through the eye in said last-named hanger and having an enlargement on its other end of greater dimensions than said eye, means associated with said doors in which said enlargement is removably received when a door is open and in which said enlargement is secured against removal when the door is closed.

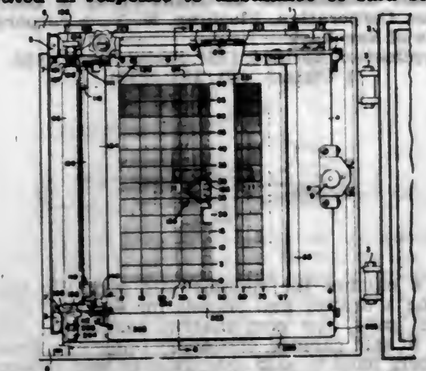
2,655,425
ELECTROCARDIOGRAPH
Harvey W. Wood, Ossining, N. Y., assignor to Cambridge Instrument Company, Inc., New York, N. Y.
Application February 25, 1950, Serial No. 146,255
9 Claims. (Cl. 346—23)



1. In an electrocardiograph, or the like, calibrating apparatus comprising an electronic amplifier having input and output circuits, a recorder connected to said output circuit for recording the magnitude of the voltage applied to said input circuit as a function of time, a source of standardizing potential, a resilient vibratable member, manually controlled means for initiating vibration of said member, a circuit for coupling said standardizing source to said input circuit, said circuit being normally-open at said vibratable member and at said manual initiating means, first switch means, under the control of said initiating means, for closing said circuit at that point, and second switch means, under the control of said vibratable member for periodically completing said circuit thereby to apply a periodic standardizing voltage to said input circuit.

2,655,426
ELECTRIC CONTROL CIRCUIT AND RECORDER
George W. Barnes, Jr., Clifton Heights, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Original application April 12, 1944, Serial No. 530,611, now Patent No. 2,527,207, dated October 24, 1950. Divided and this application November 6, 1948, Serial No. 58,764
15 Claims. (Cl. 346—32)

4. In a recording instrument having a chart upon which the record of the value of a condition may be made, a first balanceable electrical network operative to be unbalanced in response to variations in the value of the condition, a recording element, a first means to move said recording element across the chart in response to unbalance of said first network, a second balanceable electrical network, means operated in response to unbalance of said second



network to move said element across the chart at an angle to the direction it is moved in response to unbalance of said first network, and means synchronized with the operation of said first means to unbalance said second network a predetermined amount when said element is at predetermined points across the chart.

2,655,427
RECORDER
Milton Alden, Wellesley, Mass.
Application June 16, 1950, Serial No. 168,540
8 Claims. (Cl. 346—74)



1. Apparatus for making a record upon a web of electrosensitive paper comprising a casing having a magazine compartment for holding a supply of paper, said compartment being closed except for a slit through which the paper is fed, and a recording element having a portion in contact with the paper which portion forms one side of said slit so that the paper completes a seal for said magazine compartment.

CHEMICAL

2,655,428
METHOD OF WOOL SCOURING WITH COMPOSITION CONTAINING SUINT, ALCOHOLS, KETONES, AND INORGANIC ELECTROLYTES
Harold P. Lundgren, Berkeley, and Willie Fong, San Francisco, Calif., assignors to United States of America as represented by the Secretary of Agriculture
No Drawing. Application March 27, 1950, Serial No. 152,271
6 Claims. (Cl. 8—139)
(Granted under Title 35, U. S. Code (1952), sec. 266)

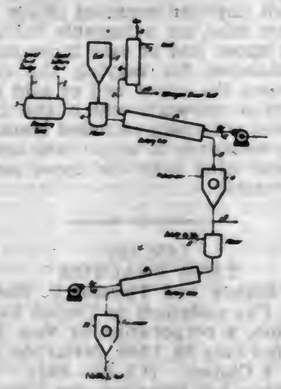
1. In the process of scouring raw wool with an essentially-neutral aqueous medium wherein the active scouring agent is suint derived from raw wool, the improvement which comprises incorporating with the aqueous medium a neutral, polar, oxygenated organic compound selected from the group consisting of aliphatic alcohols having 1 to 8 carbon atoms, tetrahydrofurfuryl alcohol, and aliphatic ketones having 3 to 6 carbon atoms in a concentration from about 0.1% to about 50%, and a neutral, inorganic electrolyte selected from the group consisting of the water-soluble salts of the alkali metals and ammonium in a concentration from about 0.05 to about 0.5 normal.

2,655,429
METHOD AND APPARATUS FOR LIQUID TREATING YARN TRAVELING IN A HELICAL PATH
George M. Allen, Swarthmore, and John Watson Pedlow, Chester, Pa., assignors to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application August 27, 1949, Serial No. 112,824
9 Claims. (Cl. 8—151.1)



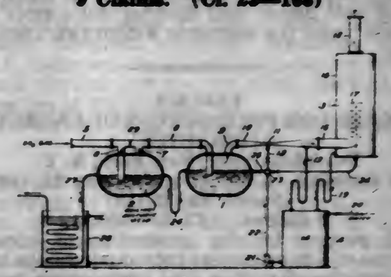
1. A method for treating a traveling yarn with liquid comprising continuously passing the yarn through a helical path having a generally horizontal axis, rotating the helix at sufficient speed to throw excess liquid off the yarn thereof by centrifugal force, providing a body of liquid beneath said path, said body of liquid being closely adjacent to but spaced from the helix of yarn in said path, lifting small portions of the liquid out of said body and projecting such portions in drop-like form directly upwardly through the intervening space to the lower periphery of the yarn helix, throwing excess liquid off the yarn by centrifugal force, collecting the excess liquid thrown off adjacent the helix on a surface inclined downwardly toward the body of liquid, and immediately returning the collected liquid directly by gravity along said surface to the body of liquid.

2,655,430
METHOD OF MAKING CALCIUM SULFATE FROM REFINERY WASTE ACID
Knapel F. Schiermeier, Alton, Ill., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application May 18, 1948, Serial No. 27,765
12 Claims. (Cl. 23—122)



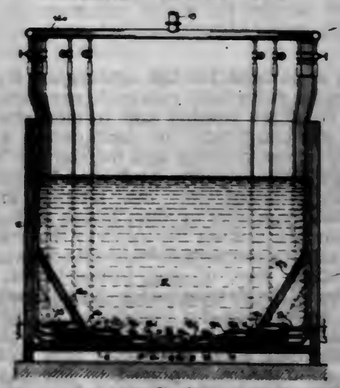
1. In a method of making calcium sulfate from refinery waste sulfuric acid containing petroleum contaminants the steps of mixing said acid with lime approximately in the proportion to neutralize the available sulfuric acid, and removing substantially all of said contaminants by calcining the resulting mixture at a temperature above about 900° F. in an oxygen-containing gas and thereby burning said contaminants to produce a calcium sulfate product substantially free from carbon and hydrocarbon material.

2,655,431
SULFURIC ACID PRODUCTION BY ABSORPTION
Louis N. Allen, Jr., Short Hills, N. J., and Thomas P. Forbath, New York, N. Y., assignors to Chemical Construction Corporation, New York, N. Y., a corporation of Delaware
Application January 21, 1949, Serial No. 71,988
9 Claims. (Cl. 23—168)



1. A process of producing sulfuric acid which comprises the steps of (1) maintaining a body of aqueous absorbing sulfuric acid, (2) continuously injecting sulfur trioxide-containing gases below the surface of said acid and thereby causing reaction of said sulfur trioxide therewith to form product acid while simultaneously generating heat of absorption and (3) continuously mixing with said body of acid a quantity of water which is chemically equivalent to said sulfur trioxide plus sufficient to dilute said product acid to a desired value within the range of 70%–98% concentration while (4) retaining within said body of acid sufficient heat of absorption from part of the absorbed sulfur trioxide to maintain it at the boil and boiling said acid by virtue of the heat of absorption of the remainder of said sulfur trioxide and thereby transforming both sulfuric acid and water into vapor, (5) adding to said body of acid an additional quantity of water equal to that removed as vapor and (6) continuously withdrawing product acid from said body of absorbing acid.

2,655,432
PROCESS FOR PRODUCING COPPER OXYCHLORIDE
Philip Kenneth Anderson, Rahway, N. J., assignor to The American Metal Company Ltd., New York, N. Y., a corporation of New York
Original application March 12, 1947, Serial No. 734,014. Divided and this application June 26, 1952, Serial No. 294,761
4 Claims. (Cl. 23—203)



1. A process for producing copper oxychloride comprising, causing a liquor made up of calcium

chloride and ammonium chloride to react with pieces of metallic copper of substantial size in an aqueous solution in a reaction vessel, aerating said solution by directing a plurality of air streams therein at a plurality of levels near the bottom of the vessel, withdrawing at predetermined intervals a portion of the contents of the vessel, replacing the withdrawn contents with metallic copper and substantially an equal volume of said liquor, and filtering out copper oxychloride from the contents withdrawn from the vessel.

2,655,433

PROCESS FOR PRODUCTION OF UNCTUOUS GRAPHITE

Daniel Gardner, New York, N. Y.

No Drawing. Application January 22, 1949, Serial No. 72,280

7 Claims. (Cl. 23—209.1)

1. A process for the production of unctuous graphite which comprises introducing impalpably fine particles of carbon into anthracene, heating the mixture of carbon and anthracene to a temperature of from 360° to 600° C. to convert the substantially non-graphitic carbon to pure unctuous graphite and separating the graphite from the anthracene.

2,655,434

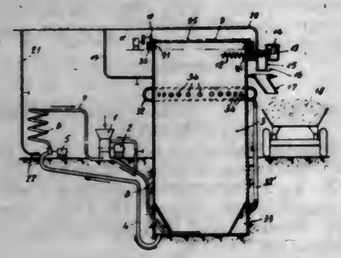
APPARATUS FOR THE CONTINUOUS FERMENTATION OF PULVERIZED VEGETABLE PRODUCTS

François Laurenty, Loos-les-Lille, France

Application March 29, 1950, Serial No. 152,586

In France March 31, 1949

4 Claims. (Cl. 23—259.1)



1. An apparatus for the continuous fermentation of solid pulverized vegetable products to produce a fertilizer residue and fermentation combustion gas comprising in combination a mixing device for proportioning and mixing the fermentable vegetable products and liquid manure, an anaerobic fermentation vat, feeding means to supply the vegetable product liquid manure mixture from the mixing device into the lower portion of said fermentation vat, withdrawal means at the upper part of said fermentation vat located above the fermentation liquid level in said vat, an outlet pipe for removing the fermentation gas formed, and an evacuation chute for the fermented solid products, this latter fermented solid being displaced to the top of the fermenation vat by the upward force of the gas bubbles formed during the fermentation process.

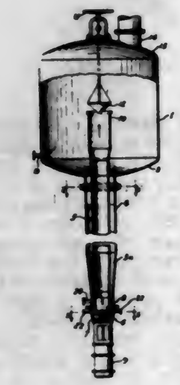
2,655,435

CHEMICAL REACTION TOWER

Lowell A. Ledgett, Ridgewood, N. J., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware

Original application June 9, 1948, Serial No. 31,861. Divided and this application August 25, 1949, Serial No. 112,238

2 Claims. (Cl. 23—283)



1. An apparatus comprising a flash cooling vessel providing an enlarged chamber having two vertically elongated concentric tubes opening into the lower portion thereof, the outer tube opening into said chamber adjacent to the bottom wall thereof and being closed at its lower end, the upper end of the inner tube extending a substantial distance upwardly into said enlarged chamber and the lower open end thereof terminating short of the closed lower end of the outer tube to provide a passage from one tube to the other, a power driven impeller mounted in the lower end of said inner tube, an adjustable valve adjacent to the said upper end of said inner tube in said enlarged chamber for varying the size of the orifice between the upper end of said inner tube and said valve through which the inner tube communicates with said enlarged chamber, pipes for feeding reactants to said tubes, and a vapor line communicating with the upper part of said enlarged chamber.

2,655,436

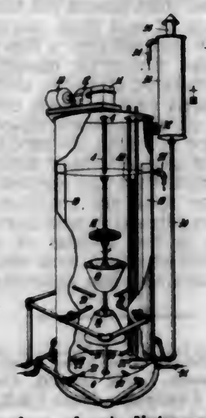
TANK REACTOR

Charles A. Bishop and Thomas F. Reed, Mount Lebanon, Pa., assignors to United States Steel Corporation, a corporation of New Jersey

Application July 26, 1949, Serial No. 106,946

4 Claims. (Cl. 23—285)

1. Apparatus for treating iron salt solutions comprising a tank, a shaft extending vertically through said tank, means for rotating said shaft, a pair of opposed centricone impellers fastened to the lower part of said shaft, the small diameter ends of said centricone impellers being adjacent each other with a space therebetween, a turbine impeller fastened to said shaft above said centricone impellers, a plurality of ammonia inlets near the bottom of the tank around the periphery thereof, a plurality of iron salt inlets adjacent the ammonia inlets, a plurality of air inlets around the periphery of the tank at a level between the centricone impellers, and an outlet



from said tank a short distance below the top thereof.

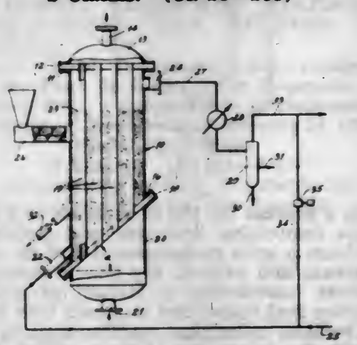
2,655,437

FLUIDIZED SOLIDS REACTOR

Paul W. Garbo, Freeport, N. Y., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey

Application June 2, 1950, Serial No. 165,810

2 Claims. (Cl. 23—288)



1. In a reactor for contacting a gasiform reactant stream with a dense fluid phase, solid particle material, a vertical reaction vessel divided by upper and lower tube sheets into a lower temperature-regulating fluid reservoir, a central reaction chamber and an upper temperature-regulating fluid reservoir, a plurality of parallel, vertical tubes passing through said central reaction chamber from the lower tube sheet to the upper tube sheet and communicating with said reservoirs, the upper tube sheet being disposed in a horizontal plane at right angles to said vertical tubes, the lower tube sheet forming a substantial angle with the horizontal equal at least to the angle of repose of the solid particle material, means for introducing the gasiform reactant stream into the reaction chamber just above the lower tube sheet substantially uniformly substantially along its lowest elevation within the vessel without passing through said lower tube sheet, means for withdrawing effluent reaction products from the upper portion of said reaction chamber below the upper tube sheet and without passing through said upper tube sheet, means for supplying temperature-regulating fluid to one of said reservoirs to circulate through said vertical tubes, means for removing said fluid from the other of said reservoirs and means for introducing said solid particle material and withdrawing it from said central reaction chamber without passing through said tube sheets.

2,655,438

SALT CRYSTALLIZATION PROCESS

William Keith Gilkey, Cuyahoga Falls, Ohio, and Albert Cornwell Shuman, Mountain Lakes, N. J., assignors, by mesne assignments, to Diamond Crystal Salt Co., St. Clair, Mich., a corporation of Michigan

No Drawing. Application December 6, 1950, Serial No. 199,563

2 Claims. (Cl. 23—302)

1. In the process for producing sodium chloride crystals of the hopper type by surface evaporation of a brine, the step comprising adding a predetermined quantity of polyoxyethylene sorbitan monolaurate to the brine prior to surface evaporation thereof.

2,655,439

COMPOUNDED FLUOBORATE CHEMICAL SURFACE TREATMENT OF ALUMINUM AND ALUMINUM ALLOYS

Bernard W. Floersch, San Diego, Calif., assignor to The Ryan Aeronautical Co., San Diego, Calif., a corporation of California

Application December 15, 1952, Serial No. 326,127

10 Claims. (Cl. 41—42)

1. A process for surface treatment of aluminum and aluminum alloy material to remove oxides and surface contamination encountered in forming operations, comprising pre-cleaning the material with an alkaline solution, then immersing the material in an etch consisting of 0.1% to 1.0% of chromic acid, 0.5% to 6.0% of sodium fluoborate and 2.0% to 12.0% of nitric acid, said percentages being by weight, and then post-etching the material with a solution of fluosilicic acid.

2,655,440

DIESEL FUEL OIL

Maurice R. Barusch, Richmond, and Robert Y. Mixer, Los Angeles, Calif., assignors to California Research Corporation, San Francisco, Calif., a corporation of Delaware

No Drawing. Application May 24, 1949, Serial No. 95,146

10 Claims. (Cl. 44—57)

1. A compounded fuel comprising at least 10 per cent of a diesel fuel oil, at least 10 per cent by weight of normally liquid oil-soluble blending agents having molecular weights below about 700 and having a formula:

$$R—(O—X)_n—O—R'$$

wherein R and R' are alkyl groups, X is a hydrocarbon group of the alkylene type having at least two carbon atoms, n is an integer, and when n is more than one, X is like alkylene groups, and a minor proportion of the order of 0.01 to 10 per cent by weight of a non-benzenoid hydrocarbon peroxide cetane-improvement additive.

2,655,441

PORTABLE ACETYLENE GENERATOR

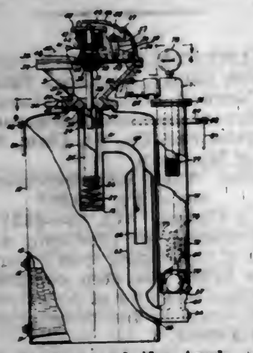
I. Newton Langerman, Portland, Oreg.

Application March 21, 1950, Serial No. 150,800

9 Claims. (Cl. 48—53.3)

9. A portable acetylene generator comprising a vertical cylindrical tank having a water filler

opening below mid height to insure a filling level less than half full, said tank having a top opening, a vertical gas outlet tube extending downwardly within the tank from said top opening and having an open lower end approximately at the center of the tank and above the water



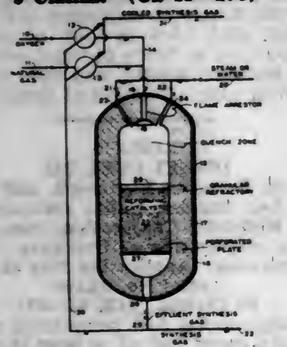
level in all positions of the tank, pressure responsive carbide feeding mechanism detachably mounted on top of the tank above said top opening, and a carbide feed tube on said mechanism extending downwardly within said gas outlet tube.

2,655,442

PROCESS AND APPARATUS FOR THE MANUFACTURE OF SYNTHESIS GAS

Bertrand J. Mayland, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application August 23, 1948, Serial No. 45,718
9 Claims. (Cl. 48—196)



1. An improved process for the manufacture of carbon monoxide and hydrogen synthesis gas, which comprises introducing natural gas and oxygen into a refractory lined chamber, burning said natural gas with said oxygen in a burner at a temperature above about 2700° F., the product of said burning containing carbon monoxide, carbon dioxide, H_2O, unreacted natural gas, and hydrogen, rapidly quenching these gases, to a temperature below about 2300° F. but sufficiently elevated to effect reforming thereof, with H_2O introduced around said burner so as to converge on hot gases passing therefrom, passing said quenched gases through a reforming catalyst and thereby converting unreacted natural gas to additional carbon monoxide and hydrogen, and recovering said carbon monoxide and hydrogen as synthesis gas.

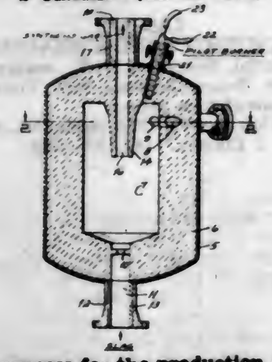
9. An improved apparatus for manufacturing synthesis gas containing carbon monoxide and hydrogen in the ratio of 1:2 which comprises a reaction chamber formed by a metal shell, top and bottom members of said shell, and a refractory heat resistant lining within said shell, axially positioned inlet means for natural gas and oxygen in the top of said shell, burner means for said natural gas and oxygen, a plurality of radially disposed inlet means for quench material at the top of said reaction chamber and surrounding said burner means and in open communication with the inside of said reaction chamber substantially at the place at which the said burner means is located and in said chamber surrounding said burner means such that the quench stream converges as a cone upon the reaction products as said products are formed at said burner, perforate support means in the bottom of said reaction chamber for solid catalyst, and outlet means in the bottom of said reaction chamber for product materials.

2,655,443

SYNTHESIS GAS GENERATION

Frederic H. Moore, Long Beach, Calif., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

Application March 2, 1948, Serial No. 12,555
2 Claims. (Cl. 48—206)



1. In a process for the production of a gaseous mixture comprising hydrogen and carbon monoxide from a solid carbonaceous fuel by reaction with steam and oxygen, the improvement which comprises introducing a stream of solid carbonaceous fuel suspended in steam into an elongated vertical cylindrical reaction zone at a point adjacent the upper end thereof and in a direction substantially tangent to the periphery of said zone, introducing a stream of oxygen-containing gas free from fuel into said zone at a point adjacent and upstream of said point of introduction of said stream of steam and solid fuel into confluence with said stream of steam and particulate carbonaceous material whereby the reactants and resulting product gases are given a spiral motion downwardly along the wall of the reaction zone, and withdrawing all of the gaseous product comprising carbon monoxide and hydrogen axially through the upper portion of the reaction zone from a point within said zone along the axis thereof below the point of introduction of said reactants and above the center of said zone, all of the reactants being introduced into said zone above the level of said point of withdrawal, whereby the reactants and resulting reaction products form a stream flowing spirally downwardly in an annulus from the upper portion of the reaction zone to the lower portion of said zone and thence upward along the axis thereof to said point of withdrawal in direct radiant heat transfer relation with said downwardly flowing spiral.

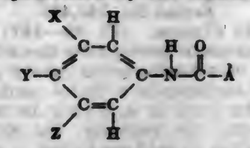
2,655,444

3-(HALOPHENYL)-1,1-DIALKYL UREAS AND WEED CONTROL COMPOSITIONS AND METHODS

Charles W. Todd, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 14, 1952, Serial No. 271,631
8 Claims. (Cl. 71—2.6)

3. A herbicidally active trisubstituted urea compound represented by the formula



where A is a secondary amino radical selected from the group consisting of methylpropylamino, methylbutylamino and diethylamino radicals, X and Z are selected from the group consisting of hydrogen and halogen, and Y is selected from the group consisting of hydrogen, halogen, alkyl, and alkoxy, the alkyl radical in said alkyl and alkoxy substituents containing up to four carbon atoms, and at least one and at most two of X, Y, and Z being halogen.

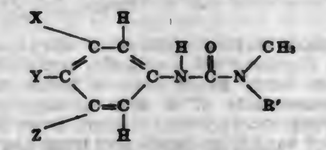
2,655,445

3-(HALOPHENYL)-1-METHYL-1-(METHYL OR ETHYL) UREAS AND HERBICIDAL COMPOSITIONS AND METHODS EMPLOYING SAME

Charles W. Todd, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 14, 1952, Serial No. 271,632
17 Claims. (Cl. 71—2.6)

8. A herbicidally active trisubstituted urea compound represented by the formula



where R' is an alkyl radical up to two carbon atoms, X and Z are selected from the group consisting of hydrogen and halogen, and Y is selected from the group consisting of hydrogen, halogen, alkyl and alkoxy, the alkyl radical in said alkyl and alkoxy substituents containing up to four carbon atoms, at least one and at most two of X, Y, and Z being halogen.

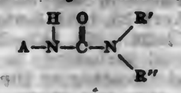
2,655,446

CHEMICAL COMPOSITIONS AND METHODS

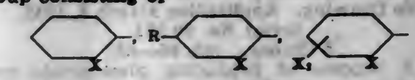
Charles W. Todd, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 14, 1952, Serial No. 271,633
3 Claims. (Cl. 71—2.6)

3. A herbicidally active 3-(o-substituted phenyl)-1,1-dialkylurea represented by the formula



where R' is an alkyl radical having up to two carbon atoms and R'' is an alkyl radical up to four carbon atoms when R' is methyl and up to two carbon atoms when R' is ethyl, and A is an ortho-substituted phenyl group selected from the group consisting of



and



where X is halogen, n is a positive integer up to 2, and R is alkyl having up to four carbon atoms, the ortho-substituted phenyl group having one hydrogen on one of the nuclear carbons ortho to the group —NHCON(R')R''.

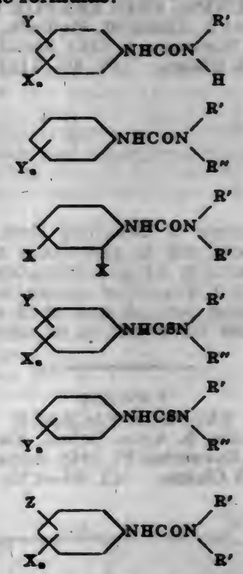
2,655,447

COMPOSITION AND METHOD

Charles W. Todd, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 14, 1952, Serial No. 271,634
9 Claims. (Cl. 71—2.6)

2. A herbicidal composition comprising a conditioning agent and, in amount sufficient to exert herbicidal action, a 1,3-substituted urea selected from the group consisting of compounds represented by the formulas:



and

where R' is alkyl up to two carbon atoms; R'' is selected from the group consisting of hydrogen and alkyl up to two carbon atoms; X is halogen; Y is selected from the group consisting of hydrogen, R and OR, where R is a monovalent aliphatic hydrocarbon radical of up to four carbon atoms having at most one unsaturation and that ethylenic; Z is selected from the group consisting of alkenyl and alkenoxy radicals, the alkenyl radical in said alkenyl and alkenoxy substituents containing up to four carbon atoms; and n is a positive integer up to two, the aromatic substituent having hydrogen on at least one of the nuclear carbons ortho to the nuclear carbon to which the urea nitrogen atom is linked.

2,655,448

DIAZOTYPE PHOTOPRINTING PROCESS

Sam C. Slifkin, Holyoke, Mass., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application March 8, 1949, Serial No. 80,324
6 Claims. (Cl. 95—88)

1. A process of producing photoprints containing azo dyestuff images which comprises exposing under a pattern to rays of ultraviolet light-sensitive material comprising a base having thereon a light-sensitive layer containing a light-sensitive monodiazo derivative of an aromatic diamine having the general formula:



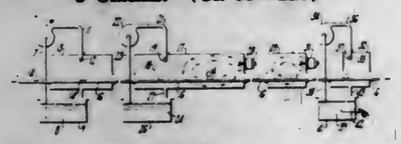
wherein R, X and Y are alkyl radicals, to effect decomposition of the light-sensitive monodiazo compound where exposed, and developing the light-sensitive material by means of an alkali in the presence of an azo dye coupling component to effect coupling between the undecomposed monodiazo compound and said coupling component.

2,655,449

BLEACHING PROCESS FOR EGGS

Herman J. Almquist, Modesto, Calif.

Application November 5, 1949, Serial No. 125,767
5 Claims. (Cl. 99—113)



1. The process of bleaching shell eggs which consists in applying to said shells a solution of hydrogen peroxide of approximately 30% concentration, and thereafter circulating the vapor of said solution around said shell eggs in contact therewith for a period of about 12 to 48 hours.

2,655,450

SAUSAGE PACKAGE

John B. Ames, Selma, Ala.

Application December 27, 1948, Serial No. 67,369
3 Claims. (Cl. 99—175)



1. A sausage package comprising an inner expansible liner and an outer cover therefor, sausage disposed within said liner, said cover comprising two integral panels folded upon each other and stitched together along a longitudinal edge, said liner being formed from grease-impervious material that is provided with two longitudinal bellows folds to permit expansion of said liner as the same is being filled with said sausage, the length of said cover being less than that of said liner when the liner is empty, the diameter of said liner when filled being slightly less than the diameter of said cover, said liner contacting said cover throughout the major portion of its extent, whereby a smooth rounded surface is provided.

2,655,451

COATED FOOD CONTAINER

Albert C. Edgar, Palos Heights, Ill., assignor to Wilson & Co., Inc., a corporation of Delaware

No Drawing. Application April 9, 1947, Serial No. 740,487
11 Claims. (Cl. 99—187)

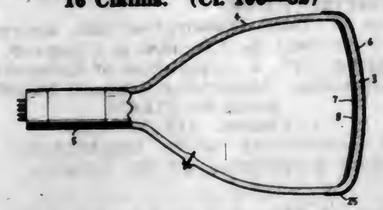
1. The process of preventing the adhesion during cooking of proteinaceous meaty materials to the interior surfaces of a metal container which comprises the step of applying to said interior surfaces, prior to cooking the proteinaceous meaty materials in said container, a coating consisting essentially of a polyhydroxy alcohol partial ester of a non-hydroxy saturated fatty acid having at least 12 carbon atoms.

2,655,452

GLASSES, COMPOSITIONS THEREOF, ARTICLES EMBODYING SAID GLASSES, AND METHOD OF MAKING AND USING THE SAME

Robert Bowling Barnes, Stamford, and Walter A. Fraser, Ridgefield, Conn., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application May 13, 1950, Serial No. 161,834
16 Claims. (Cl. 106—52)



1. A glass having controlled ultra-violet absorption characteristics and of a controlled color, said glass being made from a batch mix consisting essentially of a soda-potash-lime-silica base having incorporated therein from about .05 to .15% of vanadium oxide and from about 0.4 to 1.4% of manganese oxide, the soda and potash content together comprising from about 14 to 20%, the lime content not exceeding about 11% and the silica content embodying at least 60%, said glass, for a thickness of approximately 6 millimeters, permitting transmission of less than 13% of ultra-violet at 360 millimicrons in the spectrum and visual transmission of approximately from 45% to 70% at 400 millimicrons, 56% to 76% at 500 mu, 50% to 71% at 600 mu, and 67% to 80% at 700 mu, with an average white of approximately from 60% to 75%.

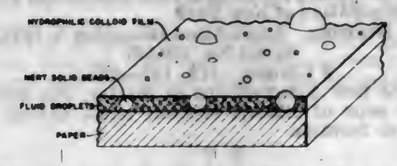
2,655,453

MANIFOLD SHEET HAVING A CRUSH-RESISTANT TRANSFER FILM

Robert W. Sandberg, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Application April 23, 1952, Serial No. 283,989
1 Claim. (Cl. 117—36)

Record material including, in combination, a paper sheet; and a coating on the sheet including a film of hydrophilic colloid material rupturable by printing pressures and having dispersed therein a profusion of microscopic droplets of printing fluid and also having dispersed in that part of the film not occupied by the droplets a plurality of beads of hard inert material having a di-



ameter of from one to three times the thickness of the film and being spaced apart in the film a distance equal to about five times the average particle diameter, said particles constituting ½ per cent. to 10 per cent. of the solids of the film by volume.

2,655,454

WOOD TREATING PROCESS AND COMPOSITION

Eduard Farber and Matthew Sciascia, Washington, D. C., assignors to Timber Engineering Company, Washington, D. C., a corporation of Delaware

No Drawing. Application February 12, 1952, Serial No. 271,278
43 Claims. (Cl. 117—147)

1. A wood impregnating and dehydrating composition comprising an impregnant selected from the group consisting of the tars and creosotes and mixtures thereof; said impregnant containing a material selected from the group consisting of: (1) the water-miscible polyhydric alcohols having from 2 to 6 hydroxyl groups, said alcohols being present in said impregnant in an amount equal to at least about 5% of the weight thereof; (2) solutions containing from about 10% to about 40% by weight of an alkali metal borate in a water-miscible polyhydric alcohol containing from 2 to 6 hydroxyl groups, said borate-alcohol solutions being present in said impregnant in an amount equal to at least about 2% of the weight thereof; (3) solutions containing from about 10% to about 40% by weight of boric acid in a water-miscible polyhydric alcohol having from 2 to 6 hydroxyl groups, said boric acid-alcohol solutions being present in said impregnant in an amount equal to at least about 2% of the weight thereof; and (4) boric acid esters of water-miscible polyhydric alcohols having from 2 to 6 hydroxyl groups, said esters being present in said impregnant in an amount equal to at least about 2% of the weight thereof; said material and said impregnant having a boiling point higher than that of water.

13. The process which comprises reducing the moisture content of and impregnating wood with the wood impregnating and dehydrating composition of claim 1, at a temperature above the boiling point of water under the conditions employed.

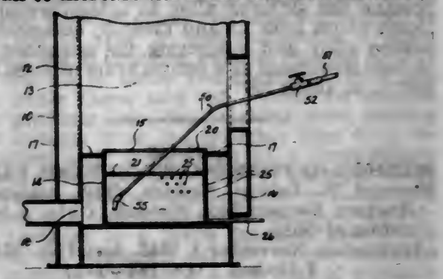
2,655,455

METHOD OF DECARBONIZING A BURNER POT

William C. Steele, Seattle, Wash.

Original application December 6, 1943, Serial No. 513,156. Divided and this application January 12, 1951, Serial No. 205,847
3 Claims. (Cl. 134—3)

1. The method of decarbonising a cylindrical pot burner having perforated walls; comprising causing a fuel to be burned in the base of the pot, directing an air jet under pressure into the pot in a direction substantially tangential to the pot side wall to increase the flame and heat intensity



from burning fuel, and to cause the mass of flame thus produced to whirl axially in the pot and to be centrifugally pressed against the pot walls and into the wall perforations.

2,655,456

MANGANESE DIOXIDE FOR PRIMARY CELLS

William Waitman Gullett, College Park, Md., assignor to Manganese Battery Corporation, Riverdale, Md., a corporation

Application March 5, 1951, Serial No. 213,949
3 Claims. (Cl. 136—139)

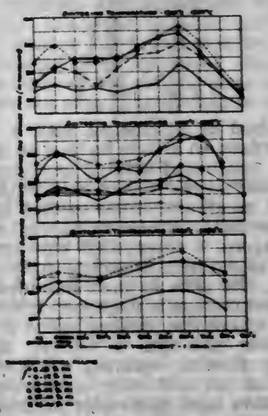
1. The method of producing composite particles of chemical synthetic manganese dioxide and graphite having a bulk density of 15–23 grams per cubic inch which includes the steps of mixing chemical synthetic manganese dioxide with 1–15% by weight graphite powder, pressing the mixture at a temperature between 400° F. and 650° F. and a pressure of 10–50 tons per square inch, cooling the pellet so formed, and comminuting it so that the resulting particles will all pass a standard screen having 60 meshes to the linear inch and at least 80% by weight of the particles will remain on a screen having 200 meshes to the linear inch.

2,655,457

METHOD OF HEAT-TREATING TUNGSTEN-NICKEL ALLOYS

Columbus Verdi, Waukegan, Ill., assignor to Fansteel Metallurgical Corporation, North Chicago, Ill., a corporation of New York

Application July 26, 1951, Serial No. 238,598
5 Claims. (Cl. 148—13)



1. The method of increasing substantially the mechanical strength without increasing appre-

ciably the hardness of sintered tungsten-nickel alloys containing from about 5% to about 45% nickel and the balance tungsten, which includes heating the sintered alloy to a temperature between about 1000° C. and 1200° C., quenching the heated alloy and subjecting the quenched alloy to heat treatment at a temperature of from about 500° C. to about 700° C.

2,655,458

METHOD OF FORMING WOOD WOOL PANELS

Howard W. Collins, Newark, Ohio, assignor to Tectum Corporation, Newark, Ohio, a corporation of Ohio

Application November 1, 1951, Serial No. 254,275
8 Claims. (Cl. 154—101)



1. The method of forming a panel of wood wool and magnesium cement rapidly and continuously, which consists in forming a layer of wood wool impregnated with water borne magnesium oxide and magnesium salts of the group of sulphate and chloride, continuously passing the layer through a current of heated air and then passing the layer between continuously moving compressing surfaces, the temperature of the heated air being such that the cement will set sufficiently to hold the layer against expansion while the layer is between the compressing surfaces.

2,655,459

METHOD OF PRODUCING AN AEROFOIL HAVING A CORE AND A LAMINATED MOLDED SKIN

James E. Gordon, Rollright, Fleet, and Cyril G. Evans, Farnborough, England, assignors to the Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England

Application May 31, 1949, Serial No. 96,234
In Great Britain June 11, 1948
8 Claims. (Cl. 154—110)



1. A method of producing with a continuous external surface an article having an inner structure and a laminated skin of moulded synthetic resinous material secured to said inner structure by securing members which extend through the skin into the inner structure, according to which a parting agent is interposed between an outer lamination and a next adjacent inner lamination of the skin, the skin is then moulded to shape, said outer lamination is displaced from said inner lamination where the parting agent is interposed between them, the skin is secured to an inner structure by passing securing members through said inner but not said outer lamination into said inner structure and said outer lamination is replaced to said inner lamination and caused to adhere thereto.

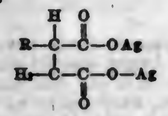
2,655,460

DIBASIC SILVER SALTS OF ALKENYL SUCCINIC ACIDS AND METHOD FOR COMBATING FUNGUS INFESTATIONS THEREWITH

Mearl A. Kise, Portsmouth, Va., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

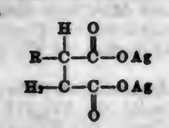
No Drawing. Application December 1, 1949, Serial No. 130,601
8 Claims. (Cl. 167—22)

1. As new compositions of matter, the dibasic silver salts of alkenyl succinic acids having the general formula



wherein R is an alkenyl group containing from 4 to 24 carbon atoms inclusive.

5. A method for combating fungus infestations on plants which comprises subjecting them to the action of a composition containing as the essential active toxicant a compound having the general formula



wherein R represents an alkenyl group containing from 4 to 24 carbon atoms inclusive.

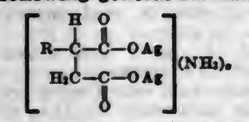
2,655,461

COMPLEX ZINC- AND SILVER-AMMONIA SALTS OF ALKENYL SUCCINIC ACIDS, METHODS FOR PREPARING THEM, AND METHOD FOR COMBATING FUNGI THEREWITH

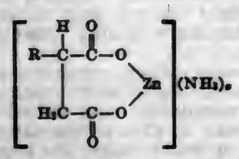
Mearl A. Kise, Portsmouth, Va., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application December 1, 1949, Serial No. 130,602
15 Claims. (Cl. 167—22)

1. As new compositions of matter, the complex metal-ammonia salts of alkenyl succinic acids selected from the group consisting of compounds having the following general formulas



and



wherein R represents an alkenyl group having from 4 to 24 carbon atoms inclusive, and x represents an integer not greater than 6.

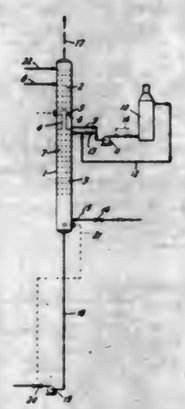
2,655,462

RECOVERY OF PHENOL FROM EXTRACTS

Oliver Merfit, Hartsdale, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Application September 30, 1949, Serial No. 118,757
2 Claims. (Cl. 196—14.42)

1. In the solvent treatment of lubricating oils to increase their viscosity index, which involves contacting oil with phenol to obtain a raffinate phase of improved viscosity index, and an extract phase comprised exclusively of extract oil, phenol, and water, and wherein substantially all of the phenol and water are separated from said extract phase by heating to produce an extract oil containing only a minor percentage of phenol, an improved method for recovering residual phenol, which method includes: countercurrently contacting said extract oil with a hot stripping gas



in a first stripping zone to vaporize residual phenol; withdrawing extract oil containing phenol-oil complex not separated from said extract oil by gas stripping, and heating said extract oil to a temperature between 550° F. and 650° F.; countercurrently contacting said heated extract oil in a second stripping zone with a stripping gas introduced at a temperature between 300° F. and 500° F.; and recovering from said second stripping zone an extract oil substantially free of phenol.

2,655,463

DESULFURIZATION OF HYDROCARBONS

Alfred E. Hoffman, Clarendon Hills, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application November 30, 1950, Serial No. 198,479
4 Claims. (Cl. 196—31)

1. A process for desulfurizing hydrocarbons containing sulfur which comprises treating said hydrocarbons with a solution of hydrogen fluoride in a chlorofluorohydrocarbon at a temperature of from about 50° to about 200° F. and at a pressure of from about 100 to about 500 pounds per square inch.

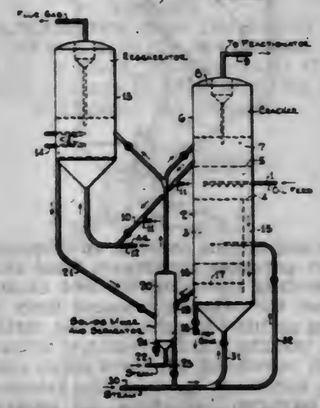
2,655,464

RESIDUUM COKING AND CRACKING

James W. Brown, Elizabeth, and Charles E. Jahnig, Red Bank, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application June 9, 1951, Serial No. 230,746
5 Claims. (Cl. 196—49)

1. A process for converting a residual petroleum feed stock boiling predominantly above 900° F. into lighter products and coke which comprises introducing the residual stock into a primary coking zone wherein coke particles of a size between 100 and 500 microns are maintained at a temperature between about 800 and 1100° F. as a dense fluidized bed with a less dense phase thereabove, and wherein the petroleum stock is vaporized and partially coked without substantial conversion to naphtha and lighter products, passing the resulting petroleum vapors upwardly through a cracking zone maintained at about 900 to 1100° F. and containing a dense fluidized bed of cracking catalyst ranging in particle size up to about 100 microns with a less dense phase above said bed, recovering cracked vapor products from the cracking zone, passing spent catalyst from the cracking zone to a regeneration zone maintained at a temperature between about 1000 and 1300° F. through which an oxygen-containing gas is passed in an upward direction at a rate sufficient to maintain the catalyst particles as a dense fluidized mass while burning off deposited carbon, overflowing the coke particles containing a wet coat of partially coked feed from the aforesaid primary coking zone to at least one secondary coking zone where-



in the coke particles are maintained at a temperature above 800° F. as a dense fluidized mass by upward passage of a dry inert gas therethrough, recovering dry net coke product from the secondary coking zone, passing a portion of the dried coke from the secondary coking zone to a mixing zone, also passing a portion of catalyst at a temperature above 1100° F. from the regeneration zone to the mixing zone and there intimately mixing it with the dried coke, passing an inert gas upwardly through the resulting particle mixture in the mixing zone at a rate above the minimum fluidization rate of the coke and at a rate sufficient to strip and entrain the relatively fine catalyst particles from the mixture, returning the entrained catalyst particles from the mixing zone to the conversion process, withdrawing catalyst-free, reheated coke particles from the bottom of the mixing zone and returning the reheated coke to the primary coking zone.

2,655,465

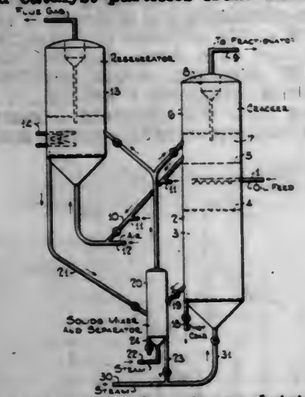
RESIDUUM COKING AND CRACKING

Homer Z. Martin, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application July 24, 1951, Serial No. 238,236
5 Claims. (Cl. 196—49)

5. A process for converting a heavy hydrocarbon residuum stock into lighter products and coke, which comprises spraying the stock at about 700 to 850° F. through a dilute vapor phase into a lower dense turbulent coking bed of relatively coarse, fluidized inert solid particles maintained at about 950 to 1025° F., passing the resulting hydrocarbon vapors upwardly through a dense turbulent bed of relatively fine particles of

cracking catalyst maintained at about 800 to 1100° F. directly above said vapor phase, withdrawing cracked product hydrocarbons from the catalyst containing zone, also withdrawing spent catalyst from the turbulent catalyst bed and passing it to a regeneration zone through which an oxygen-containing gas is passed in an upwardly direction at a rate sufficient to maintain the catalyst particles in a dense fluidized mass at a temperature between 1000 and 1200° F. while carbon is being burned off, withdrawing hot regenerated catalyst particles from the regenera-



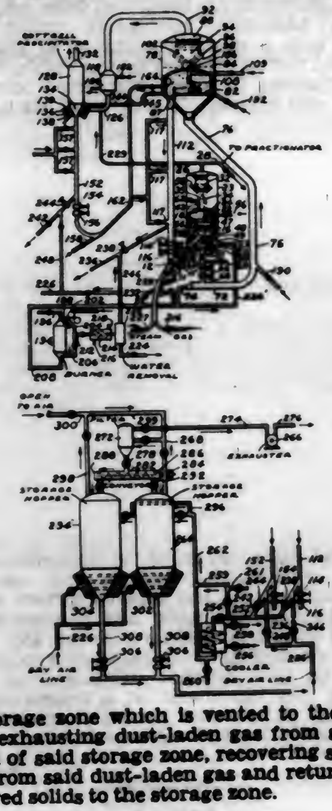
tion zone and mixing them in an elutriation zone with inert particles withdrawn from the coking bed, separating the relatively fine catalyst particles from the relatively coarse inert particles by passing an inert gas through the particle mixture at a velocity smaller than the minimum entrainment velocity of the inert solids but greater than the minimum entrainment velocity of the catalyst particles, returning the separated reheated inert solids to the coking bed and returning the separated catalyst to the catalytic cracking zone.

2,655,466
PROCESS FOR SHUTTING-DOWN CATALYTIC APPARATUS EMPLOYED FOR THE CONVERSION OF HYDROCARBONS

Edwin J. Gohr, New York, N. Y., and Homer Z. Martin, Cranford, Charles E. Jahnig, Red Bank, Charles W. Tyson, Summit, and John M. Graham, Plainfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Original application December 30, 1942, Serial No. 470,534. Divided and this application October 6, 1949, Serial No. 119,912
1 Claim. (Cl. 196—52)

In a high temperature process using a large amount of catalyst particles for converting a hydrocarbon feed in the presence of recycled fluidized catalyst in a reaction zone and regenerating the resulting spent catalyst as a fluidized mixture in a regeneration zone and wherein it is desired to shut down the process and remove substantially all the catalyst from the reaction and regeneration zones, the improvement which comprises turning off the hydrocarbon feed, purging the reaction zone with steam, restricting the flow of catalyst into the reaction zone, transferring as much as possible of the catalyst from the reaction zone to the regeneration zone, introducing air into the reaction zone and recycling catalyst at a low rate between the reaction zone and the regeneration zone while the catalyst is cooled by the air to about 300° F. to 500° F., downwardly removing the catalyst from the regeneration zone as a dense fluidized column, adding gas to the removed catalyst to form a lighter suspension, passing said suspension of catalyst to a settling

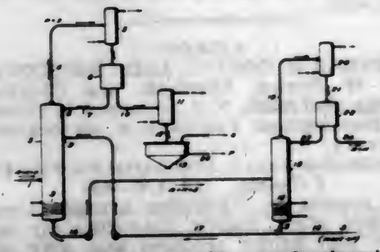


and storage zone which is vented to the atmosphere, exhausting dust-laden gas from an upper portion of said storage zone, recovering solid material from said dust-laden gas and returning the recovered solids to the storage zone.

2,655,467
PROCESS FOR SEPARATING PREDOMINANTLY AROMATIC HYDROCARBONS FROM PREDOMINANTLY SATURATED HYDROCARBONS BY EXTRACTIVE DISTILLATION

Hal B. H. Cooper and Eugene C. Medcalf, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application May 27, 1952, Serial No. 290,292
10 Claims. (Cl. 202—39.5)



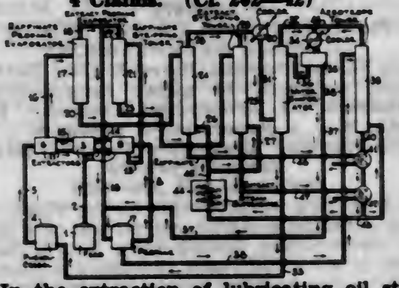
1. A process of separating predominantly aromatic hydrocarbons from predominantly saturated hydrocarbons of similar boiling points which comprises subjecting a mixture of hydrocarbons having at least half their molecular weight in benzenoid rings and hydrocarbons of

similar boiling point having less than one double bond per six carbon atoms, the mixture having a boiling point below that of phthalic anhydride to distillation under partial reflux counter-current, to a stream of molten phthalic anhydride whereby the vapor pressure of the predominantly aromatic constituents of the mixture is decreased and the vapor pressure of the predominantly saturated components is increased, the predominantly saturated hydrocarbons being obtained as an overhead and a solution of phthalic anhydride and the predominantly aromatic hydrocarbons being obtained from the still in liquid form.

2,655,468
RECOVERING SOLVENT FROM PROCESS STEAM

Robert L. Greene, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application March 10, 1951, Serial No. 214,894
4 Claims. (Cl. 202—42)



1. In the extraction of lubricating oil stocks by means of two immiscible solvents, a first solvent for the paraffinic constituents and a second solvent for the naphthenic constituents wherein said first solvent is removed from the raffinate and extract fractions by distillation and said second solvent is then removed from the raffinate and extract fractions by stripping them with steam, wherein the stream of steam and said second solvent from the stripping operation are fractionated to form a first overhead azeotropic fraction comprising steam and said second solvent, the improvement which comprises in combination condensing said first overhead azeotropic fraction, contacting the resulting condensate with said first solvent whereby a portion of said second solvent is extracted from said condensed first azeotropic fraction, fractionating the resulting raffinate to form a second overhead azeotropic fraction comprising steam and said second solvent and a bottoms fraction comprising substantially pure water and recycling said second overhead azeotropic fraction by blending it with said first overhead azeotropic fraction.

2,655,469
METHOD OF REMOVING ACTIVE SULFUR FROM SULFURIZED ORGANIC COMPOUNDS

Allan Manteuffel, Union, George R. Cook, Northfield, and William D. Gibson, Crystal Lake, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

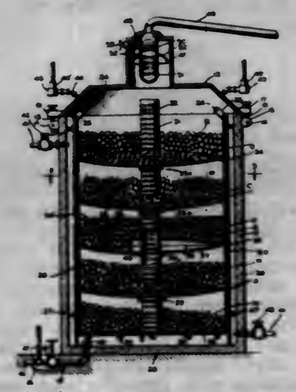
No Drawing. Application May 31, 1951, Serial No. 229,276
6 Claims. (Cl. 202—46)

1. A method for purifying a crude sulfurized organic material which comprises steam distilling the crude sulfurized reaction mixture in the presence of a combination of non-aqueous alkalis selected from the group consisting of the alkali metal and alkaline earth metal hydroxides and non-aqueous sulfide from the group consisting of alkali metal and alkaline earth metal sulfides at a temperature sufficiently elevated so as to prevent a greater accumulation of water than is required to produce substantially equilibrium hydration conditions between the purification reagents and the moisture from the steam but below a temperature at which the desired sulfurized organic materials decompose, the proportions of said reagents being sufficient to react with the corrosive sulfurous constituents of said mixture, carrying out said distillation until the reaction between the said purification reagents and the said corrosive sulfurous constituents of the reaction mixture is completed and the removal of volatile constituents is effected, separating the resulting phases, and recovering a non-corrosive, non-volatile sulfurized mixture.

2,655,470
APPARATUS FOR TREATING CARBONACEOUS MATERIAL

John W. Clark, Washington, D. C.

Application January 23, 1951, Serial No. 207,251
12 Claims. (Cl. 202—99)



1. In combination with a retort for treating carbonaceous material, means for introducing a heating medium into the retort, a perforated container mounted in the retort and arranged to receive the material to be treated, means for spacing the container from the sides and bottom of the retort to provide space for facilitating the circulating of the heating medium from the retort into the container and through the material therein, a perforated tubular member vertically mounted within the container and provided with axially spaced partitions for dividing the container into separate compartments, each of said partitions including a pair of perforated members having a space therebetween and means for introducing the carbonaceous material in separate batches into the compartments so as to partially fill the same in order to localize treatment and expansion of the carbonaceous material during the heating treatment thereof.

2,655,471
CHROMIUM ELECTROPLATING

Allan E. Chester, Highland Park, Ill., assignor to Poor & Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application December 21, 1951, Serial No. 262,899
12 Claims. (Cl. 204—51)

1. A chromic acid plating bath for the electrodeposition of chromium containing a triflu-

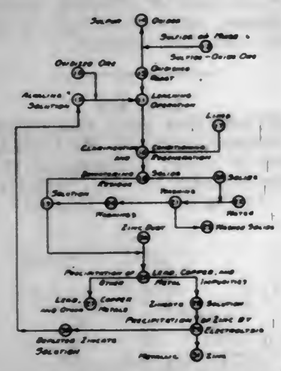
oroacetic acid salt of an oxyalkylated fatty amine in sufficient amount to retard the liberation of chromic acid fumes from said bath.

2,655,472

PROCESS OF EXTRACTING AND RECOVERING METALS BY LEACHING AND ELECTROLYSIS

Robert V. Hilliard and Charles T. Baroch, Boulder City, Nev.

Application December 16, 1949, Serial No. 133,452
8 Claims. (Cl. 204—116)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. The method for the separation and recovery of metallic constituents of oxidized lead-zinc ores which contain other metals including gold, silver, and copper, in addition to lead and zinc which comprises the steps of leaching the oxidized ore in an alkali-cyanide solution; treating the pregnant leach solution with lime; removing the insoluble residues from the thus treated solution; displacing the gold and silver in the solution with metallic copper; separating the precipitated gold metal and silver metal; displacing the copper from the solution with metallic lead; separating the precipitated copper metal; adjusting the temperature of the solution to about 35° to about 50° C., displacing lead and any remaining metals below zinc in the electromotive force series of elements by contacting the solution with electrolytic flake zinc, immediately removing the metal precipitate from solution; electrowinning metallic zinc from the alkaline solution from which the more noble metals have been separated; and recycling the barren alkaline solution to the leach step.

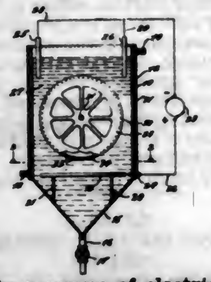
2,655,473

ELECTROLYTIC DETINNING

Frederick A. Lowenheim, Plainfield, N. J., assignor to Metal & Thermit Corporation, New York, N. Y., a corporation of New Jersey

Application July 20, 1948, Serial No. 39,727
3 Claims. (Cl. 204—121)

1. Apparatus for recovering tin from tin plate scrap comprising a vessel for holding bath solution, a rotatable container for scrap submerged in said bath, an insoluble anode in said bath disposed below and separated from the scrap and the container, said anode being insulatedly mounted in said vessel in a substantially horizontal position with respect to said container, a cathode in said bath on that side of the scrap opposite the anode and separated from the anode and from the container and scrap, said scrap being thus positionable intermediate the anode and cathode so as to intercept anodic oxygen generated at the anode and to function as a bipolar electrode, circuit means for connecting the anode



and cathode to a source of electric current, and means for rotating the container in the bath.

2,655,474

PHOTOCHEMICAL PRODUCTION OF OLEFINIC HYDROCARBONS

Henry G. Schutze and Harry E. Cier, Baytown, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

No Drawing. Application March 24, 1951, Serial No. 217,402
11 Claims. (Cl. 204—162)

1. A method for producing olefins which comprises exposing a continuous stream of a paraffinic hydrocarbon having from 2 to 6 carbon atoms in a reaction zone, having a surface exposed to a resonance frequency radiation, to a resonance frequency radiation in the range from 0.1 to 4 watts per square centimeter of exposed reaction zone surface in the presence of a metal sensitizer selected from the group consisting of mercury, cadmium, and zinc at a temperature in the range from 100° to 750° F. at a pressure at least atmospheric for a time in the range from 0.5 second to 5 minutes to form a product comprising olefins having a greater number of carbon atoms than said paraffinic hydrocarbon, and recovering said product, said resonance frequency radiation corresponding at least to one of the resonance lines of said sensitizer.

2,655,475

DRILLING MUD

Paul W. Fischer, Long Beach, and Raymond A. Rogers, Wilmington, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Application September 26, 1949, Serial No. 117,934
6 Claims. (Cl. 252—8.5)

1. A drilling fluid comprising water, a finely divided solid suspended therein, a soap of the group consisting of the alkali metal, ammonium and amine salts of oil-soluble mineral oil sulfonic acids, and a water dispersible natural gum.

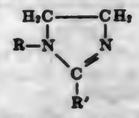
2,655,476

THICKENED LUBRICANTS

Everett C. Hughes, Shaker Heights, and Ernest C. Milberger, Maple Heights, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application October 26, 1951, Serial No. 253,448
17 Claims. (Cl. 252—28)

1. A water-resistant thickened lubricant of good temperature susceptibility properties consisting essentially of a mineral lubricating oil of lubricating viscosity as the major component, an inorganic water-sensitive gelling agent imparting a grease-like consistency to the oil upon addition thereto as a minor component, and an oil-soluble, water-insoluble, surface-active polyamino imidazoline being in an amount less than the gelling agent and imparting stability against deterioration by water, and having the formula



where R is a radical containing an amino group and R' is selected from the group consisting of alkyl, alkylene, hydroxyalkyl and hydroxyalkylene groups.

2,655,477

MINERAL LUBRICATING OIL CONTAINING AN ANTICORROSIVE AGENT AND AN ANTIOXIDANT DETERGENT AGENT

John D. Bartleson, Cleveland, and Milton H. Campbell, Cleveland Heights, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application December 27, 1946, Serial No. 718,890
1 Claim. (Cl. 252—32.7)

A mineral oil lubricant comprising a major proportion of mineral lubricating oil and an amount of an anticorrosion agent within the range of about 0.19 to about 0.38% based on the weight of the oil and 2% based on the weight of the oil of an antioxidant detergent agent, said amount of each agent being sufficient to inhibit the development of both corrosion and lacquer when the oil is used under service conditions to a greater extent than the same amount of either agent alone under the same conditions, said anticorrosion agent being an oil-dispersible reaction product of phosphorus pentasulfide and "reduced motor polymer" in the ratio of about 1.5 moles "reduced motor polymer" per mole of phosphorus pentasulfide, formed at about 350° F. for about eight hours, and said antioxidant detergent agent being an oil-dispersible barium derivative of a reaction product of phosphorus pentasulfide and dioctadecylamine in the ratio of about 1.6 moles dioctadecylamine per mole of phosphorus pentasulfide, formed at about 500° F. for about thirty minutes.

2,655,478

NONCORROSIVE SOLUBLE OIL CONTAINING ACTIVE SULFUR

Alton J. Deutser, Northville, Mich., and Fred T. Crookshank, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Original application June 25, 1949, Serial No. 101,488, now Patent No. 2,626,240, dated January 20, 1953. Divided and this application March 1, 1952, Serial No. 274,494
12 Claims. (Cl. 252—33.3)

1. An emulsifiable lubricant which is essentially non-corrosive to steel in the presence of water, comprising as the major constituent a sulfurized mineral lubricating oil containing loosely combined active sulfur, an alkali metal soap emulsifier, and about 0.1–2.0% by weight based on the lubricant of an aliphatic C_1–C_3 alkylene polyamine having from 3 to 20 carbon atoms in the molecule effective to inhibit said lubricant against steel corrosion in the presence of water.

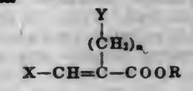
2,655,479

POLYESTER POUR DEPRESSANTS

John C. Munday, Cranford, and Dilworth T. Rogers, Summit, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application January 3, 1949, Serial No. 68,986
8 Claims. (Cl. 252—56)

1. A pour point depressant composition consisting essentially of a mixture of 20 to 80% of a first copolymer and 80 to 20% of a second copolymer, said first copolymer having an average side chain length of about 12.7 and being a copolymer of about 10% of an ester (*a*) of general formula



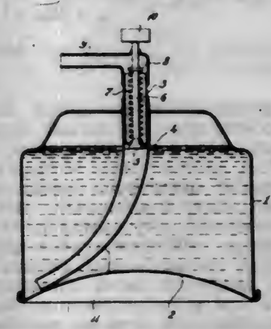
wherein X and Y are selected from the class consisting of —H and COOR, *n* is an integer of value 0 to 1 and R is decyl, and about 90% of an ester (*b*) of the formula aforesaid wherein R is an alcohol radical derived from coconut oil alcohols of average chain length about 13.5, the second copolymer having an average side chain length of about 11.2 carbon atoms and being a copolymer of about 60% of ester (*a*) and about 40% of ester (*b*).

2,655,480

LATHER PRODUCING COMPOSITION

Joseph G. Spitzer, Yonkers, Irving Reich, Brooklyn, and Norman Fine, Mount Vernon, N. Y.; said Reich and said Fine assignors to said Spitzer

Application November 2, 1949, Serial No. 125,032
21 Claims. (Cl. 252—90)



1. A package comprising a pressure-tight container having a valve-controlled opening and containing a composition for use in producing a stable lather consisting essentially of a liquid mixture of an aqueous soap solution and a volatile propellant in liquid phase, the composition being confined in the container under the vapor pressure of the propellant, said soap solution comprising a solution which is non-gelling at room temperatures and which contains at least about 5% and not substantially exceeding about 30% by weight of soap, said propellant being a halogenated alkane having not more than two carbon atoms and containing at least one fluorine atom, the atomic weight of each substituted halogen atom not exceeding 36, the proportion of propellant being from about 0.2 to about 0.0125 mole per 100 grams of the composition, said propellant having a vapor pressure in the range from about 5 to about 300 pounds per square inch gauge at 70° F. and having a solubility in

water not exceeding about 32 cc. of gas to 100 grams of water at atmospheric pressure and 25° C.

2,655,481

OXIDE REMOVING BATH

Irvine C. Clingan, Baltimore, Md., assignor to Eastern Stainless Steel Corporation, Baltimore, Md., a corporation of Maryland

No Drawing. Application April 4, 1949, Serial No. 85,466
1 Claim. (Cl. 252—135)

A molten bath for removing oxides from the surface of metals which comprises a fused substantially anhydrous mixture of 90 parts by weight of sodium hydroxide, 10 parts by weight of an alkali metal nitrate, and about .1 to 4 parts by weight of sodium borate and a spectroscopic amount of iron.

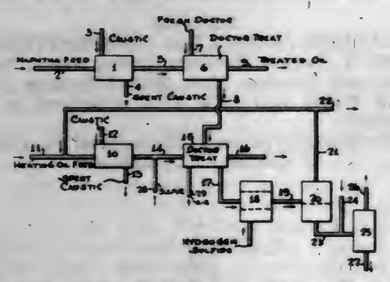
2,655,482

RECOVERY OF USEFUL PRODUCT FROM SPENT DOCTOR

John B. Holtzclaw, Roselle, and John D. Brooks, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application July 23, 1952, Serial No. 300,538
2 Claims. (Cl. 252—183)

1. Improved process for the production of a



solution comprising sodium sulfur salts which comprises contacting an initial hydrocarbon mixture containing mercaptans and boiling in the motor fuel boiling range with a doctor solution, thereafter using said doctor solution to contact a secondary hydrocarbon mixture containing mercaptans, and boiling in the heating oil boiling range, withdrawing the spent doctor and saturating the same with hydrogen sulfide whereby an upper oil layer containing naphthenic acids and a lower layer containing sodium sulfur salts form, treating said lower layer with an alkali metal hydroxide solution and thereafter concentrating the same.

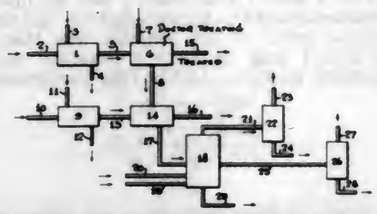
2,655,483

RECOVERY OF USEFUL PRODUCT FROM SPENT DOCTOR

John B. Holtzclaw, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application July 23, 1952, Serial No. 300,539
3 Claims. (Cl. 252—183)

1. Improved process for the production of a solution comprising sodium sulfur salts which comprises contacting a hydrocarbon mixture containing mercaptans and boiling in the motor fuel boiling range with a doctor solution, thereafter using said doctor solution to contact a hydrocarbon mixture containing mercaptans and boiling in the heating oil boiling range, withdrawing the spent doctor and contacting the same with an alkali metal bisulfide and a low molecular weight alcohol, whereby three phases form, withdrawing the intermediate phase and distilling the same, removing alcohol overhead and removing a bottom fraction comprising sodium sulfur salts.



2,655,484

REFORTIFICATION OF ALUMINUM HALIDE-HYDROCARBON COMPLEX CATALYST

John L. Groebe, Dewey, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application January 4, 1950, Serial No. 136,821
4 Claims. (Cl. 252—411)

1. A process for refortification of an aluminum halide-hydrocarbon complex from a packed upright cylindrical column of solid particulate aluminum halide containing a plurality of vertically disposed contiguous sections which comprises introducing a suspending liquid unreactive with aluminum halide under suspending conditions to the bottom of the top section of said column below the upper level of said particulate aluminum halide through a series of injection zones circumferentially disposed in relation to said column, each being inwardly directed at an angle of about 45° to a radius of said column intersecting each said zone and at an angle of about 45° to the horizontal, and withdrawing liquid and suspended aluminum halide at the liquid level axially of said column so as to cause said suspending liquid to pass obliquely and spirally through said column; when the aluminum halide has been suspended and removed from said top section, suspending and removing the aluminum halide from the next lower section by the procedure utilized in said top section; continuing the suspension and removal of aluminum halide from each progressively lower section of said column until the same has been depleted; and passing the liquid suspension of aluminum halide into contact with an aluminum halide-hydrocarbon complex so as to refortify same.

2,655,485

SILOXANE STRUCTURAL FOAMS

Kenneth E. Hoffman, Midland, Mich., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application December 17, 1951, Serial No. 262,175
2 Claims. (Cl. 260—2.5)

1. The method of preparing a siloxane structural foam comprising heating an essentially solvent-free polysiloxane resin to a temperature below 130° C. whereby to render the resin fluid, adding to the fluid resin a foaming agent and a catalyst for curing siloxane resins and thereafter heating the mixture to a temperature of at least 130° C. whereby the foaming agent decomposes producing a resin foam, and continuing to heat the foam so produced at a temperature above 130° C. until the resin is rendered insoluble and infusible, said siloxane resin being of the formula

$$R_nSiO_{\frac{4-n}{2}}$$

where each R is selected from the group consisting of methyl and phenyl radicals, at least 50 per cent of said radicals being methyl and n has an average value of 1 to 1.5.

2,655,486

TETRAHYDROPHTHALIC ALKYD RESINS

Alexander C. Keyl, Bensenville, and Robert H. Geils, Downers Grove, Ill., assignors to Fred'k A. Stresen-Reuter, Inc., a corporation of Illinois

No Drawing. Application September 27, 1950, Serial No. 187,129
9 Claims. (Cl. 260—22)

1. The method of forming an alkyd resin comprising simultaneously esterifying and condensing an intermediate product, comprising a monomeric tetrahydrophthalic acid half ester of a monoester of a 10 to 22 carbon atom fatty acid with a polyhydric aliphatic alcohol having at least three hydroxyl groups, with an esterifying agent selected from the group consisting of a 10 to 22 carbon atom fatty acid, a natural resin acid and hydrogenation products thereof, a polycarboxylic organic acid and anhydrides thereof and polyhydric aliphatic alcohols.

2,655,487

TETRAHYDROPHTHALIC ACID HALF ESTER COMPOUNDS

Alexander C. Keyl, Bensenville, and Robert H. Geils, Downers Grove, Ill., assignors to Fred'k A. Stresen-Reuter, Inc., a corporation of Illinois

No Drawing. Application September 27, 1950, Serial No. 187,130
14 Claims. (Cl. 260—22)

4. The method of forming an alkyd resin comprising dissolving a tetrahydrophthalic acid half ester of a 12 to 22 carbon atom fatty acid monoester of a polyhydroxy aliphatic alcohol having at least one free hydroxyl group and one free carboxyl group in a solvent and heating the solution and thereby azeotropically distilling said solvent and water of condensation from the solution.

2,655,488

INTERPOLYMER OF VINYLAROMATIC COMPOUND AND CONJUGATED OIL FATTY ACID

Eugene W. Kanning and Edward G. Hart, Cleveland, Ohio, assignors to The Arco Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application June 2, 1947, Serial No. 751,961
27 Claims. (Cl. 260—22)

10. A non-gelled resinous interpolymer produced by heating, at a temperature between about 100 degrees and 250 degrees centigrade, a starting polymerization mixture consisting essentially of (1) from about 70 to 30 percent by weight of a monovinylaromatic compound selected from the group consisting of styrene, fluorostyrene, chlorostyrene, methoxystyrene, hydroxystyrene, methylstyrene, trichloromethylstyrene, trifluoromethylstyrene, and alpha-methylstyrene, and (2) from about 30 to 70 percent by weight of a conjugated oil fatty acid selected from the group consisting of conjugated linseed oil fatty acids and dehydrated castor oil fatty acids, said monovinylaromatic compound in polymeric form comprising from about 30 to 56 percent by weight in said polymeric product.

2,655,489

COATING COMPOSITIONS COMPRISING POLYETHYLENE AND ALKYL POLYSILOXANE AND METHOD OF MAKING SAME

William Dent Lawson, Springfield, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 19, 1951, Serial No. 247,363
8 Claims. (Cl. 260—29.1)

2. The process of increasing the gloss of abrasion resistant enamels and lacquers containing polymerized ethylene which comprises preparing a gel containing 5% to 50% of polymerized ethylene based on the weight of the gel, .025% to 2.0% of a liquid alkyl polysiloxane based on the weight of the polymerized ethylene, and a solvent for the polymerized ethylene and polysiloxane, grinding said gel with pigment, non-volatile resinous organic polymeric film forming material, and volatile solvent until a uniform dispersion is obtained, and mixing the resulting dispersion with additional non-volatile resinous organic polymeric film forming material and additional solvent; said polysiloxane being represented by the structural formula



in which the various "R's" represent monovalent alkyl hydrocarbon radicals and "n" is a whole number greater than one; and said polymerized ethylene being solid at room temperature, having a structural formula characterized by recurrent —CH_2— groups, and showing a crystalline structure by X-ray diffraction.

2,655,490

CATALYTIC HARDENING OF PHENOL-FORMALDEHYDE RESINS AND COMPOSITIONS COMPRISING SAME

Lawrence F. Sonnabend and Alvin M. Edmunds, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application June 2, 1950, Serial No. 166,066
8 Claims. (Cl. 260—38)

8. A composition comprising a liquid, water-insoluble condensation product of phenol and formaldehyde, which condensation product is in amount sufficient, when hardened, to set the entire composition to a rigid, solid mass, and a minor amount of a hardening agent consisting essentially of a mixture of trichloroacetic acid and benzene sulfonyl chloride containing from 33 to 98 per cent by weight of the latter.

2,655,491

SELF-HARDENING FURAN RESIN COMPOSITIONS USING A MIXTURE OF BENZENE SULFONYL CHLORIDE AND TRICHLOROACETIC ACID AS CATALYSTS

Alvin M. Edmunds and Lawrence F. Sonnabend, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application July 30, 1952, Serial No. 301,786
8 Claims. (Cl. 260—41)

1. A composition comprising a major amount by weight of a liquid furan resin, having at least 50 per cent by weight of furfuryl alcohol chem-

ically combined therein, and a minor amount of a mixture of from 80 to 40 per cent of benzene sulfonyl chloride and from 20 to 60 per cent of trichloroacetic acid as a hardening agent.

2,655,492

POLYETHYLENE COMPOSITIONS CONTAINING STYRENE-ISOBUTYLENE COPOLYMERS

David W. Young, Roselle, and Paul E. Hardy, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application October 29, 1948, Serial No. 57,468
3 Claims. (Cl. 260—45.5)

1. Composition comprising 85 to 60% by weight of a solid polyethylene having a molecular weight of about 20,000, and 15 to 40% by weight of a styrene-isobutylene coplymer having about 60% combined styrene and an intrinsic viscosity of 0.7 to 0.8, said composition having a tensile strength greater than 1000 lbs./sq. in. and a Williams plasticity of at least 330 at 90° C. using a 5 kg. weight.

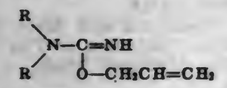
2,655,493

POLYMERIZABLE AND POLYMERIZED COMPOSITIONS COMPRISING AN O-ALLYLISOUREA

John A. Price, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application October 24, 1951, Serial No. 253,005
16 Claims. (Cl. 260—77.5)

1. A polymerizable composition comprising, by weight, (1) from about 1% to about 75% of an O-allylisourea represented by the general formula



where R is a member of the group consisting of hydrogen, alkyl radicals and aryl radicals and (2) from about 25% to about 99% of a compound which is different from the compound of (1), is copolymerizable therewith and which contains a $CH_2=C<$ grouping.

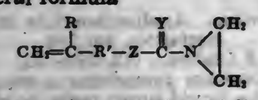
2,655,494

POLYMERIZABLE ACRYLONITRILE COMPOSITIONS AND POLYMERIZATION PRODUCTS THEREOF

Edward L. Kropa, Old Greenwich, Conn., and Earl W. Malmberg, Dublin, Ohio, assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application December 29, 1951, Serial No. 264,273
14 Claims. (Cl. 260—77.5)

1. A polymerizable composition comprising (1) acrylonitrile and (2) a compound represented by the general formula



where R represents a member of the class consisting of hydrogen and the methyl radical, R' represents a divalent hydrocarbon radical, Z represents a member of the class consisting of oxygen and the imino radical, and Y represents a member of the class consisting of oxygen and sulfur, the compound of (2) constituting from about 0.4% to about 35% by weight of the total amount of (1) and (2).

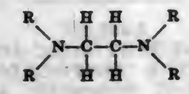
2,655,495

ARSENITE CATALYST ACTIVATOR

Harry Leverne Williams, Sarnia, Ontario, Canada, assignor to Polymer Corporation Limited, Sarnia, Ontario, Canada, a corporation of Canada

No Drawing. Application January 19, 1951, Serial No. 206,940
14 Claims. (Cl. 260—82.5)

1. In the process which comprises causing substances selected from the group consisting of butadiene-1,3 and admixtures thereof with copolymerizable compounds to polymerize in aqueous emulsions at low temperatures in the presence of a peroxy type catalyst while employing as a catalytic activator ferrous sulfate, an alkali metal pyrophosphate and a soluble organic chelate complex of an organic compound selected from the group consisting of compounds of the general formula



and water soluble salts thereof, R being an alkyl carboxyl group, the step of incorporating in the charge a small amount of a soluble arsenite in activating quantities.

2,655,496

METHOD FOR EMULSIFYING POLYMERIZABLE COMPOUNDS AND EFFECTING POLYMERIZATION WITH THE EMULSIONS

Jack J. Adams, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application December 22, 1950, Serial No. 202,436
9 Claims. (Cl. 260—85.5)

1. The method which comprises forming with agitation a uniform mixture of a substantially water-insoluble polymerizable mono-ethylenically unsaturated liquid monomer with about 0.05 to 0.4 per cent, based on the weight of monomer, of an anionic emulsifier, dissolved in sufficient water to form a 5 to 60 per cent solution of the emulsifier, the emulsifier being one which is capable of forming water-in-monomer emulsions and which is incapable at any concentration of maintaining polymer solids in non-foaming dispersions and being selected from the class consisting of sodium salts of petroleum hydrocarbon sulphonic acids, of decyl benzene sulphonic acids, of lauryl sulphuric acid and of dihexyl esters of sulphosuccinic acid; discontinuing agitation when a water-in-monomer emulsion has formed; adding to the quiescent emulsion sufficient water containing about 0.5 to 8 per cent, based on the weight of monomer, of an emulsifier, of a different type from the first, which is a poor dispersant for liquid monomers but is capable of dispersing polymer solids without significant foaming and is selected from the class consisting of sodium salts of alkyl sulphonic acids, of alkyl naphthalene sulphonic acids, and of formaldehyde condensation products of naphthalene sulphonic acids, so that upon subsequent, vigorous agitation, an aqueous emulsion is formed wherein water is the continuous phase; agitating the mixture to form a monomer-in-water emulsion; and subjecting the resulting aqueous emulsion to polymerizing conditions to convert the liquid monomer to solid polymer.

2,655,497

TREATMENT OF STREPTOMYCIN SOLUTIONS

Philip Dalton Coppock, Epsom, Lily Mulligan, New Malden, John Talbot McCombie, London, and Alan Gilbert White, Bristol, England, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company

No Drawing. Application December 8, 1947, Serial No. 790,444. In Great Britain December 11, 1946
6 Claims. (Cl. 260—210)

1. A process for the concentration and recovery of streptomycin from solutions thereof, which comprises passing a filtered streptomycin-containing broth, obtained by mould culture, adjusted to a pH of 6 – 9, through coarse chemically activated carbon selected from the class consisting of phosphoric acid activated carbon, magnesium chloride activated carbon, calcium chloride activated carbon, zinc chloride activated carbon, silver nitrate activated carbon and calcium oxide activated carbon, the activated carbon having a mesh size coarser then 60 meshes per linear inch and being maintained in a substantially static condition, and subsequently eluting the adsorbed streptomycin from the static mass of activated carbon by means of a dilute aqueous solution of an acid having a pH not greater than about 2.

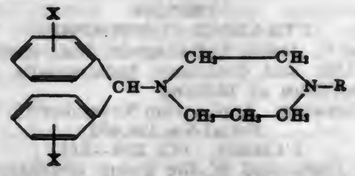
2,655,498

N-BENZHYDRYL-N'ALKYL-SUBSTITUTED-HOMOPIPERAZINES

Arthur W. Weston and Armiger H. Sommers, Waukegan, Ill., assignors to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois

No Drawing. Application August 15, 1950, Serial No. 179,636
11 Claims. (Cl. 260—239)

2. N - benzhydryl-N'-alkylhomopiperazines of the formula:



wherein X is a member selected from the class consisting of hydrogen, halogen, alkyl groups containing from 1 to 4 carbon atoms inclusive and alkoxy groups containing from 1 to 4 carbon atoms inclusive and R is a member selected from the class consisting of hydrogen, methyl and ethyl groups.

8. The process of preparing compounds according to claim 2 which comprises; treating N-X-(ring-substituted) - benzhydrylhomopiperazine with a member selected from the class consisting of formic acid, acetic anhydride and acetyl halides followed by reduction of the formyloxy and acetoxy groups formed with lithium aluminum hydride.

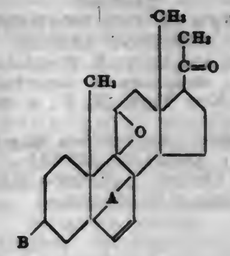
2,655,499

ADDUCTS OF 3-SUBSTITUTED-9,11-OXIDO-5,7-PREGNADIEN-20-ONES

Robert H. Levin, A Vern McIntosh, Jr., and George B. Spero, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application August 5, 1950, Serial No. 177,966
7 Claims. (Cl. 260—239.55)

1. A 3-substituted-9,11-oxido - 5,7-pregnadien-20-one adduct represented by the formula:



wherein B is selected from the group consisting of hydroxy and an acyloxy group of the formula AcO, Ac being the residue of an unsubstituted organic monocarboxylic acid containing from one to ten carbon atoms, inclusive, and wherein A is the adduct radical of a dienophile selected from the group consisting of maleic acid, maleic anhydride, and maleic acid diesters, wherein the esterifying group is of solely hydrocarbon nature and contains from one to eight carbon atoms, inclusive.

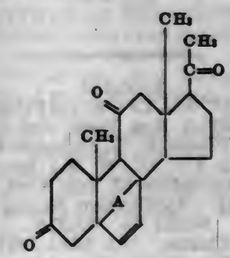
2,655,500

STEROID KETONE ADDUCTS

Paul E. Mariatt, Arthur R. Hanze, A Vern McIntosh, Jr., and Robert H. Levin, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application October 18, 1951, Serial No. 251,452
2 Claims. (Cl. 260—239.55)

1. A 5,7-pregnadien-3,11,20-trione 5,8 - maleic adduct of the formula:



wherein A is the adduct radical of a dienophile selected from the group consisting of maleic acid, maleic anhydride, and lower-alkyl diesters of maleic acid containing from one to eight carbon atoms, inclusive, in the esterifying groups.

2,655,501

METHOD OF MAKING 5-FORMAMIDO-6-AMINO URACILS

Oliver J. Weinkauff, St. Louis, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application June 3, 1948, Serial No. 30,970

7 Claims. (Cl. 260—256.4)

1. The improved process comprising heating 5,6-diamino uracil with a dilute aqueous formic acid solution, in the proportion of one equivalent of diamine to 1 to 5 equivalents of formic acid at a temperature above 80° C. and subsequently recovering 5-formamido-6-amino uracil from the reaction mixture.

2,655,502

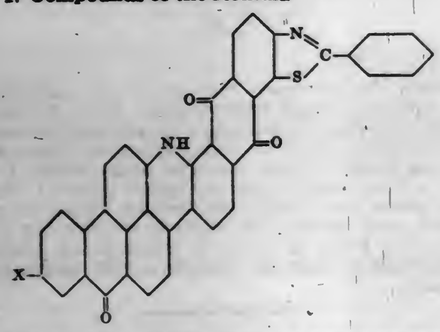
DYESTUFFS OF THE BENZANTHRONE ACRIDINE SERIES

Mario Scalera and Harry E. Westlake, Jr., Somerville, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

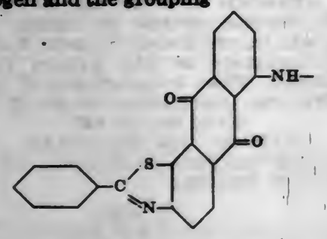
No Drawing. Application May 21, 1952, Serial No. 289,204

3 Claims. (Cl. 260—274)

1. Compounds of the formula



in which X is selected from the group consisting of hydrogen and the grouping



2,655,503

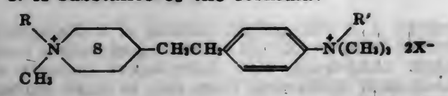
QUATERNARY SALTS OF γ-STILBAZOLINES

Arthur P. Phillips, New York, and Julio C. Castillo, White Plains, N. Y., assignors to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y., a corporation of New York

No Drawing. Application March 29, 1951, Serial No. 218,279

4 Claims. (Cl. 260—293)

1. A substance of the formula:



wherein R and R' are lower alkyl radicals of which at least one is methyl, X^- is the anion of a non-toxic acid and S indicates saturation of the ring.

2,655,504

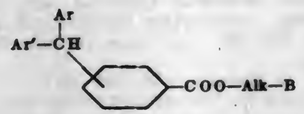
N,N-DISUBSTITUTED AMINOALKANOL ESTERS OF α,α-DIACYLTOLUIC ACIDS AND THEIR SALTS

Carl Peter Krimmel, Mundelein, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application March 6, 1951, Serial No. 214,211

15 Claims. (Cl. 260—294.3)

1. A member of the class of compounds consisting of a basic ester of an α,α-diaryltoluic acid and salts thereof, said basic ester having the formula



wherein Ar and Ar' are aromatic hydrocarbon radicals containing not more than 7 carbon atoms, Alk is a lower alkylene radical containing at least 2 carbon atoms and B is an amino radical selected from the class consisting of di(lower alkyl)amino, morpholino, lupetidino, pyrrolidino and piperidino radicals.

2,655,505

BIBENZOTHIAZOLES AND METHOD FOR PRODUCING THE SAME

Norbert Steiger, Nutley, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application April 16, 1952, Serial No. 282,680

11 Claims. (Cl. 260—306.6)

1. A process which comprises hydrolyzing 2,2'-bis(mercapto)-4,4'-bis(methoxy)-6,6'-bibenzothiazole to form 2,2'-bis(mercapto)-4,4'-bis(hydroxy)-6,6'-bibenzothiazole, and reacting the latter compound in the form of an alkali metal salt with a lower dialkylaminoalkyl halide to produce a 2,2'-bis(di-lower alkylaminoalkylmercapto)-4,4'-bis(β-di-lower alkylaminoalkoxy)-6,6'-bibenzothiazole.

2,655,506

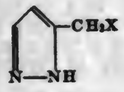
PYRAZOLE COMPOUNDS

Reuben G. Jones, Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application November 16, 1950, Serial No. 196,093

3 Claims. (Cl. 260—310)

1. A compound of the group consisting of a base represented by the formula



wherein X represents a halogen of the group consisting of chlorine, bromine and iodine, and acid addition salts thereof.

2,655,507

PYRAZOLE COMPOUNDS

Reuben G. Jones, Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Original application November 10, 1950, Serial No. 196,093. Divided and this application August 6, 1952, Serial No. 302,999

5 Claims. (Cl. 260—310)

1. A compound of the group consisting of 3-hydroxymethylpyrazole and its acid addition salts.

2,655,508

PYRAZOLE COMPOUND

Reuben G. Jones, Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Original application November 16, 1950, Serial No. 196,093. Divided and this application August 6, 1952, Serial No. 302,000

1 Claim. (Cl. 260—310)

3-cyanomethylpyrazole.

2,655,509

1-p-CHLOROPHENYL-2-PHENYL-4-(N-PYRROLIDINO)-BUTENES

Jack Mills, Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application April 14, 1951, Serial No. 221,135

6 Claims. (Cl. 260—313)

1. A compound of the group consisting of a 1-p-chlorophenyl-2-phenyl-4-(N-pyrrolidino)-butene characterized by a boiling point of about 190–195° C. at a pressure of about 0.3 mm. of mercury, a melting point of about 48–49° C., and infrared absorption maxima expressed in microns at 3.32, 3.39, 3.58, 6.28, 6.70, 6.92, 7.12, 7.30, 7.44, 7.61, 7.78, 8.76, 9.16, 9.68, 9.84, 9.97, 10.05, 12.38, 13.01, 13.23 and 14.25; and nontoxic, pharmaceutically useful acid addition salts thereof.

2,655,510

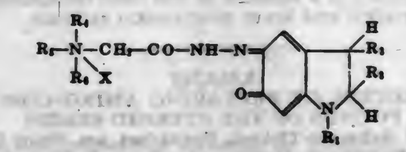
WATER-SOLUBLE MONO-BETAINE HYDRAZONES OF THE AMINOCHROMES AND PROCESS OF PREPARING SAME

Harry Sobotka, New York, N. Y., assignor to Mount Sinai Hospital Research Foundation, Inc., New York, N. Y., a membership corporation of New York

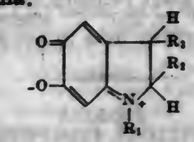
No Drawing. Application October 19, 1949, Serial No. 122,257

8 Claims. (Cl. 260—319)

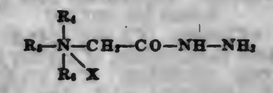
1. The process of producing water-soluble trialkyl mono-betaine hydrazones of aminochromes conforming to the formula:



wherein R_1 is selected from the group consisting of methyl, ethyl and isopropyl radicals; R_2 is selected from the group consisting of hydrogen and the methyl radical; R_3 is selected from the group consisting of hydrogen and the hydroxy radical; R_4, R_5 and R_6 represent alkyl groups, and X is a monovalent anion, which comprises reacting an orthoquinone of a dihydroindole having the formula:



with an acethydrazide having the formula:



the symbols R_1, R_2, R_3, R_4, R_5, R_6 and X used in defining the formulas for the orthoquinone and the acethydrazide having the same meaning as set forth in defining the reaction product.

2,655,511

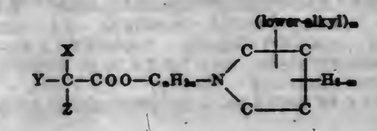
1-PYRROLIDYL ESTERS

Eugene H. Woodruff, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application November 18, 1950, Serial No. 196,525

6 Claims. (Cl. 260—326.3)

1. A compound selected from the group consisting of (*a*) (1-pyrrolidyl)alkyl esters represented by the following formula:



wherein X is selected from the group consisting of hydrogen and lower-alkyl radicals, Y is a monocyclic hydrocarbon radical containing a carbocyclic ring having from five to six carbon atoms, inclusive, Z is selected from the group consisting of lower-alkyl and monocyclic hydrocarbon radicals containing a carbocyclic ring having from five to six carbon atoms, inclusive, *m* is an integer from zero to four, inclusive, and *n* is an integer from two to four, inclusive, and (*b*) acid addition and (*c*) quaternary ammonium salts thereof.

2,655,512

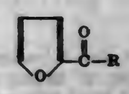
PREPARATION OF 2-ACYLPYRROLES FROM 2-ACYLFURANS

Andrew P. Dunlop, Riverside, and Samuel Swadesh, Broadview, Ill., assignors to The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey

No Drawing. Application June 22, 1950, Serial No. 169,773

12 Claims. (Cl. 260—326.5)

1. A process for the production of a 2-acylpyrrole which comprises reacting a 2-acylfuran of the general formula:



in which R is an alkyl radical containing not more than 2 carbon atoms with a nitrogen base

selected from the class consisting of ammonia and saturated alkyl primary amines at a temperature of 50 to 250° C. wherein the molar ratio of the nitrogen base to the acylfuran is at least 2 to 1.

2,655,513
PESTICIDAL COMPOUNDS
Morton Kleiman, Chicago, Ill., assignor to Arvey Corporation, a corporation of Illinois
No Drawing. Application July 5, 1952, Serial No. 297,397
4 Claims. (Cl. 260—346.2)

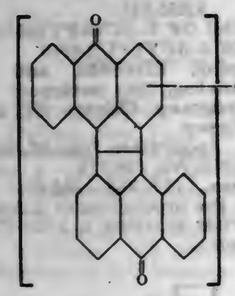
1. As a new composition of matter a compound of the group consisting of 1,2,3,4,10,10-hexachloro - 1,4 - methano - 5,8 - oxa - 1,4,4a,5,8,8a-hexahydronaphthalene; 1,2,3,4,10,10-hexachloro-1,4-methano - 5 - methyl - 5,8 - oxa-1,4,4a,5,8,8a-hexahydronaphthalene; and 1,2,3,4,10,10-hexachloro -1,4- methano -5,8- dimethyl -5,8- oxa-1,4,4a,5,8,8a-hexahydronaphthalene.

2,655,514
PESTICIDAL COMPOUNDS
Morton Kleiman, Chicago, Ill., assignor to Arvey Corporation, a corporation of Illinois
No Drawing. Application July 5, 1952, Serial No. 297,398
4 Claims. (Cl. 260—346.2)

1. As a new composition of matter, a compound of the group consisting of 1,2,3,4,10,10-hexachloro - 1,4 - methano - 5,8 - oxa - 6,7 - epoxy - 1,4,4a,5,6,7,8,8a-octahydronaphthalene; 1,2,3,4,-10,10 - hexachloro - 1,4 - methano - 5,8 - dimethyl - 5,8 - oxa - 6,7 - epoxy - 1,4,4a,5,6,7,8,8a-octahydronaphthalene; and 1,2,3,4,10,10-hexachloro-1,4 - methano - 5 - methyl - 5,8 - oxa - 6,7 - epoxy-1,4,4a,5,6,7,8,8a-octahydronaphthalene.

2,655,515
ARYLAMINOACEDIANTHRONE ISOTHIOURONIUM SALTS
Frank Ledge and James Wardleworth, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application June 18, 1951, Serial No. 232,242. In Great Britain June 26, 1950
6 Claims. (Cl. 260—351)

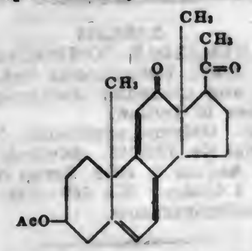
1. As new dyestuffs possessing improved affinity for cotton and light fastness, the arylaminoacedianthrones having the general formula



wherein R' stands for a radical selected from the group consisting of mono and dicyclic aryl radicals carrying at least one —CH_2—X group in which X represents an isothiouronium salt group, and n is an integer.

2,655,516
3-BETA-ACYLOXY-5,7,9(11)-PREGNATRIEN-12,20-DIONES
Robert H. Levin, A Vern McIntosh, Jr., and George B. Spero, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan
No Drawing. Application May 24, 1951, Serial No. 228,134
5 Claims. (Cl. 260—397.4)

1. A 3 - beta-acyloxy - 5,7,9(11) - pregnatrien-12,20-dione represented by the formula:



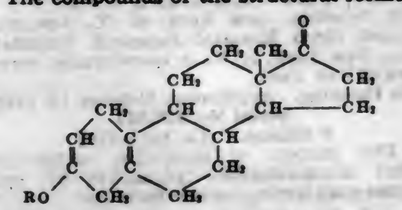
in which Ac is an alkyl carbonyl radical containing from 1 to 8 carbon atoms, inclusive.

2,655,517
STEROID CYANOHYDRINS
George Slomp, Jr., Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan
No Drawing. Application May 3, 1952, Serial No. 286,020
20 Claims. (Cl. 260—397.4)

1. A Δ^4 - 3,20 - diketopregnene - 20 - cyanohydrin having a 17-hydrogen.

2,655,518
ESTRADIENES
Frank B. Colton, Chicago, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois
No Drawing. Application May 7, 1952, Serial No. 286,611
4 Claims. (Cl. 260—397.4)

1. The compounds of the structural formula

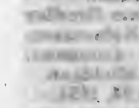


wherein R is a member of the class consisting of lower alkyl and lower phenylalkyl radicals.

2,655,519
PROCESS OF PREPARING AMINO-COMPOUNDS OF THE STEROID SERIES
Josef Schmidt-Thomé, Frankfurt am Main Unterliederbach, Germany, assignor to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius und Brüning, Frankfurt am Main Hoechst, Germany, a company of Germany
No Drawing. Application March 22, 1952, Serial No. 278,131. In Germany March 30, 1951
4 Claims. (Cl. 260—397.5)

1. The process of producing amino-compounds of the steroid series which comprises acting

phosphorus oxychloride and pyridine upon 20-oximes of the formula



wherein R is a cyclopentanopolyhydrophenanthrene radical which is substituted in position 3 by a member of the group consisting of hydroxyl and acylated hydroxyl thus effecting a Beckmann re-arrangement.

2,655,520
PROCESS OF PREPARING AMINO-COMPOUNDS OF THE STEROID SERIES
Josef Schmidt-Thomé, Frankfurt am Main Unterliederbach, Germany, assignor to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius und Brüning, Frankfurt am Main Hoechst, Germany, a German company
No Drawing. Application March 22, 1952, Serial No. 278,132. In Germany March 30, 1951
6 Claims. (Cl. 260—397.5)

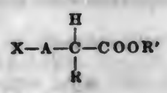
1. The process of producing amino compounds of the steroid series which comprises hydrolyzing 17-acetylamino compounds of the formula



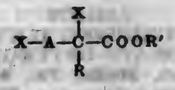
wherein R is a cyclopentanopolyhydrophenanthrene radical, which is substituted in position 3 by a member of the group consisting of hydroxyl and acylated hydroxyl by means of an inorganic, strong alkaline substance at a temperature above 95° C.

2,655,521
PRODUCTION OF HALOGENO FATTY ACID ESTERS
Elbert C. Ladd, Passaic, N. J., and Herbert Sargent, San Anselmo, Calif., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application October 6, 1950, Serial No. 188,872
1 Claim. (Cl. 260—408)

A method of forming fatty esters of the formula

(I) 

from fatty esters of the formula

(II) 

where X represents chlorine or bromine; A is alkylene; R represents X, hydrogen, alkyl or haloalkyl; and R' is lower alkyl, which comprises subjecting the esters of the Formula II to the action of hydrogen gas, in the presence of a hydrogenation catalyst, until the absorption of hydrogen gas has ceased, and subsequently recovering the ester of the Formula I.

2,655,522
PROCESS OF PRODUCING MONOESTERS OF POLYHYDRIC ALCOHOL
John David Malkemus, Allendale, N. J., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
No Drawing. Application April 25, 1946, Serial No. 664,983
2 Claims. (Cl. 260—410.6)

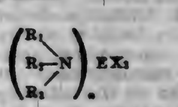
1. The continuous process of producing monoesters of di- and trihydric alcohols with monocarboxylic acids having at least six carbon atoms per molecule which comprises continuously introducing the alcohol and acid free from catalysts into a reaction zone in a ratio of about 4 to 10 mols of alcohol per mol of carboxylic acid, subjecting the mixture in the reaction zone to a temperature within the range of about 200° to 300° C. and a pressure which is controlled and correlated with said temperature to keep the alcohol in liquid phase, continuously removing liquid reaction product from said zone and flashing off water, repeating the heating and flashing until the system is substantially free of unesterified fatty acid and water, and continuously distilling off unreacted alcohol from the anhydrous residue.

2,655,523
PREPARATION OF ALKYL TITANATES
Daniel F. Herman, Queens, N. Y., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application February 8, 1951, Serial No. 210,989
9 Claims. (Cl. 260—429)

1. Method for preparation of alkyl titanates which comprises admixing titanium tetrachloride, an alcohol selected from the group consisting of primary and secondary monohydric non-substituted aliphatic alcohols having at least two carbon atoms, and liquefied ammonia in a closed system, said ammonia being present in amount at least equal to that required to react with the chloride ions released from the tetrachloride plus that required to dissolve the ammonium chloride formed by the reaction, and separating the liquid alkyl titanate layer from the liquid ammonia-ammonium chloride layer, the entire process being carried out in the anhydrous state.

2,655,524
ADDITION COMPOUNDS OF AMINES AND HALIDES OF ALUMINUM AND BORON
Frank J. Sowa, Crandon, N. J.
No Drawing. Application April 11, 1951, Serial No. 220,541
15 Claims. (Cl. 260—448)

1. A compound having the composition represented by the formula



in which R_1 is selected from the group consisting of the alkyl, alkenyl and alkadienyl radicals having from 8 to 18 carbon atoms in a straight chain with a terminal carbon atom of the chain attached to the nitrogen atom, R_2 and R_3 are selected from the group consisting of hydrogen,

alkyl radicals containing from 1 to 5 carbon atoms, the cyclohexyl radical, the phenyl radical and the benzyl radical, E is an element selected from the group consisting of aluminum and boron, and when X is selected from the group consisting of chlorine, bromine and iodine n is an integer from 1 to 4, and when E is boron and X is fluorine, n is an integer from 1 to 3.

2,655,525

SULFATED ALCOHOL DETERGENTS FROM REACTION PRODUCT OF PRIMARY MONOHYDRIC ALCOHOLS WITH ETHYLENE

Fred W. Bahes, Westfield, William P. FitzGerald, Elizabeth, and Joseph F. Nelson, Rahway, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application March 25, 1950, Serial No. 152,012
8 Claims. (Cl. 260—459)

1. A process for producing an alkyl sulfate detergent which comprises reacting monohydric alcohol containing from 10 to 18 carbon atoms per molecule with a sulfating agent and recovering the alkyl sulfate detergent product from the sulfation reaction mixture, said monohydric alcohol having been prepared by a process comprising reacting a primary monohydric alcohol of 1 to 4 carbon atoms with ethylene in the presence of a peroxide activator at a temperature in the range of 70°–225° C., a pressure in the range of 250–1500 p. s. i. g. and for a period of from 1 to 5 hours.

2,655,526

PREPARATION OF MONO-ALKYL OR -ARALKYL CYANOACETIC ACID ESTERS

Arthur C. Cope, Belmont, Mass., assignor to Merck & Co., Inc., a corporation of New Jersey

No Drawing. Application March 1, 1949, Serial No. 79,115
8 Claims. (Cl. 260—464)

1. The process of producing a member of the group consisting of mono-alkyl and -aralkyl cyanoacetic alkyl and aralkyl esters, which process comprises having together in a reaction mixture (*a*) a carbonyl compound of the formula



wherein R is a member of the group consisting of hydrogen, an alkyl and the phenyl radical, and R_1 is a member of the group consisting of an alkyl and the phenyl group, (*b*) a cyanoacetic alkyl ester, (c) an ammonia-derivative condensing agent which is a member of the group consisting of acetamide, ammonium acetate, and a fatty acid salt of a nitrogen base (in which base any radical attached to the nitrogen is hydrocarbon, with a total of no more than six carbon atoms in all of said hydrocarbon), and (*d*) a hydrogenation catalyst which is a member of the group consisting of platinum and palladium; and allowing the carbonyl compound to condense with the cyanoacetic alkyl ester in said reaction mixture while simultaneously introducing hydrogen as a reducing agent; and thereafter recovering the end product sought.

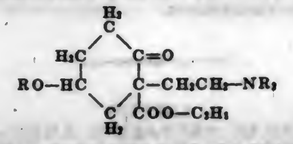
2,655,527

CARBETHOXYCYCLOHEXANONES

John A. Hogg, Jerome Korman, William Bradley Reid, Jr., and Alan H. Nathan, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application February 24, 1951, Serial No. 212,671
9 Claims. (Cl. 260—468)

1. A 2-carbethoxy-2-(β-aminoethyl)-4-hydrocarbonoxycyclohexanone having the formula:



wherein each R is a hydrocarbon radical containing from one to seven carbon atoms, inclusive.

2,655,528

SULFUR TRIOXIDE COMPOUNDS OF PENTAALKYLGUANIDINES

William B. Hardy, Bound Brook, and Hans Z. Lecher, Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application November 1, 1951, Serial No. 254,452
8 Claims. (Cl. 260—500)

1. A sulfur trioxide compound of a pentaalkylguanidine, the alkyl groups of which contain not more than four carbon atoms.

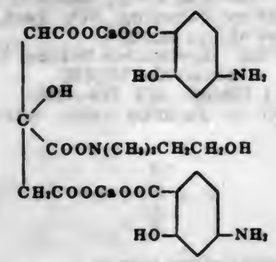
2,655,529

CALCIUM CHOLINE CITRATE SALT OF P-AMINO SALICYLIC ACID

Heinrich Hopff and Hermann Spaenig, Ludwigshafen (Rhine), Germany

No Drawing. Application January 31, 1952, Serial No. 269,341. In Germany February 1, 1951
1 Claim. (Cl. 260—501)

A para-aminosalicylic acid derivative of the formula



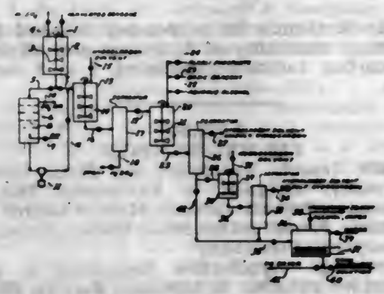
2,655,530

METHOD OF PURIFYING ALKYLATED ARYL SULFONATE DETERGENTS

John A. Nevison, Media, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

Application March 30, 1950, Serial No. 152,794
6 Claims. (Cl. 260—505)

1. A method for producing an improved alkylated aryl sulfonate detergent containing not more than 0.1% by weight of unsulfonated hydrocarbon from the sulfonation mixture obtained by intimately contacting an alkylated aryl hydrocarbon containing from 9 to 15 carbon atoms in the alkyl group with a sulfonating agent, which comprises diluting the sulfonation mixture with a hydrocarbon solvent boiling below 400° F. to dissolve the alkylated aryl sulfonic acids but not the spent sulfonating agent, settling and separating the hydrocarbon solution of the sulfonic acids from the spent sulfonating agent, intimately contacting the hydrocarbon solution of sulfonic acids with 2 to 5 volumes, per volume of original alkylated aryl hydrocarbon, of a 25% to 60% aqueous alcohol solution and a sufficient amount of a basic reagent to neutralize the mixture, forming two immiscible liquid phases, one comprising essentially hydrocarbon solvent and minor amounts of unsulfonated alkylated aryl hydrocarbon, and the other comprising an aqueous alcohol solution of sulfonates containing minor



amounts of hydrocarbon solvent, unsulfonated alkylated aryl hydrocarbon, and inorganic salts, separating the immiscible phases from one another, intimately contacting the aqueous alcoholic solution comprising the second phase with an additional quantity of said hydrocarbon solvent, forming two immiscible liquid phases, one comprising essentially hydrocarbon solvent and residual unsulfonated alkylated aryl hydrocarbon and the other comprising an aqueous alcohol solution of sulfonates containing a minor amount of hydrocarbon solvent and traces of unsulfonated alkylated aryl hydrocarbon, separating the phases from one another, and heating the aqueous alcohol solution of sulfonates to remove alcohol, water, and hydrocarbon solvent.

2,655,531

METHOD OF MAKING NAPHTHALENE-ACETIC ACID

Philip L. Southwick, Pittsburgh, Pa., assignor to Food Machinery and Chemical Corporation, San Jose, Calif.

No Drawing. Application November 4, 1950, Serial No. 194,183
9 Claims. (Cl. 260—515)

1. A method of manufacturing 1-naphthaleneacetic acid which comprises heating chloroacetic acid and naphthalene in open equipment under reflux and in the presence of sufficient potassium bromide so that a temperature in the range 210° C. to 235° C. may be reached in the reaction mixture, until 1-naphthaleneacetic acid is formed.

2,655,532

N-OXOALKYL-PARA-AMINOSALICYLIC ACIDS

Heinrich Hopff and Hermann Spaenig, Ludwigshafen (Rhine), Germany

No Drawing. Application June 23, 1951, Serial No. 233,240. In Germany August 1, 1950
3 Claims. (Cl. 260—519)

3. Para-amino salicylic acid derivatives of the group consisting of N-(gamma-oxo-butyl)-para-amino salicylic acid and N-di-(gamma-oxo-butyl)-para-amino salicylic acid.

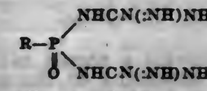
2,655,533

DIGUANIDINE AMIDES OF ALKANE PHOSPHONIC ACIDS

Allen H. Lewis and Richard D. Stayner, Berkeley, Calif., assignors to California Research Corporation, San Francisco, Calif., a corporation of Delaware

No Drawing. Original application September 29, 1950, Serial No. 187,679. Divided and this application November 10, 1951, Serial No. 255,871
2 Claims. (Cl. 260—551)

1. As new products, diguanidine amides of an alkane phosphonic acid having the structural formula



in which the alkane substituent attached to the phosphorus atom is an alkyl radical containing from 10 to 20 carbon atoms.

2,655,534

PREPARATION OF N-AROMATIC-N'-ALIPHATIC HYDROCARBON UREAS

Norman E. Searle, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 25, 1951, Serial No. 253,243
15 Claims. (Cl. 260—553)

1. A process for preparing an N-aromatic-N'-aliphatic hydrocarbon urea which comprises heating and reacting under substantially anhydrous conditions and at a temperature above 50° C. an aliphatic hydrocarbon amine salt of an N-aliphatic hydrocarbon monothiocarbamic acid with a carbocyclic aromatic amine of 1 to 2 six-membered nuclei having hydrogen on the amino nitrogen and having the amino group attached directly to nuclear carbon, and isolating the resulting N-aromatic-N'-aliphatic hydrocarbon urea.

2,655,535

RECOVERY OF CHLORTETRACYCLINE

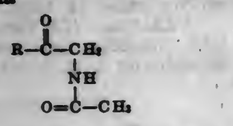
Charles Pidacks, Spring Valley, and Edward E. Starbird, Nanuet, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application November 22, 1949, Serial No. 129,184
17 Claims. (Cl. 260—559)

1. In the process of recovering chlortetracycline, the steps which comprise extracting an acidic aqueous chlortetracycline containing liquid with a volatile inorganic-salt-solution immiscible solvent selected from the group consisting of lower aliphatic alcohols, benzyl alcohol, acetone and lower alkyl esters of the lower fatty acids in the presence of a water-soluble inorganic salt selected from the group consisting of alkali metal, alkaline earth metal, ammonium and lower alkyl amine, halides and sulfates, said solvent being present in at least such quantity that an amount of pure chlortetracycline equal to the original chlortetracycline content of said chlortetracycline-containing liquor is soluble in said solvent, separating the solvent extract from the residual aqueous liquid and recovering the chlortetracycline from said solvent extract.

2,655,536
PREPARATION OF ALPHA-ACETAMIDO-BETA-HYDROXYPROPIOPHENONES
Oliver De Garmo, St. Louis, and David B. Guthrie, Glendale, Mo., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application March 14, 1951, Serial No. 215,662
13 Claims. (Cl. 260—562)

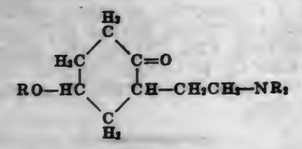
1. In a process for the preparation of an α-acetamido-β-hydroxypropiophenone, the step comprising reacting an α-acetamidoacetophenone having the formula



wherein R represents a phenyl radical selected from the class consisting of the unsubstituted phenyl radical and substituted phenyl radicals containing as their substituent groups halogens, nitro groups, alkyl groups, and alkoxy groups; and formaldehyde while maintaining a pH in the range of from about 8.0 to about 9.0.

2,655,537
DISUBSTITUTED AMINOETHYLCYCLOHEXANONES
John A. Hogg, Jerome Korman, William Bradley Reid, Jr., and Alan H. Nathan, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan
No Drawing. Application February 24, 1951, Serial No. 212,672
9 Claims. (Cl. 260—563)

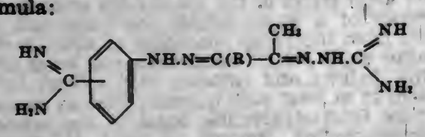
1. A 2 - (β-aminoethyl) -4-hydrocarbonoxycyclohexanone having the formula:



wherein each R is a hydrocarbon radical having from one to seven carbon atoms, inclusive.

2,655,538
BIS-HYDRAZONES
Heinrich Jensch, Frankfurt am Main Hochst, Germany, assignor to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius und Brüning, Frankfurt am Main Hochst, Germany, a company of Germany
No Drawing. Application July 16, 1951, Serial No. 237,061. In Germany July 24, 1950
5 Claims. (Cl. 260—564)

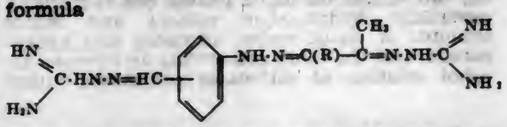
5. The compounds of the following general formula:



wherein R represents a member selected from the group which consists of hydrogen and aliphatic hydrocarbon radicals containing from 1 to 3 carbon atoms.

2,655,539
BIS-HYDRAZONES
Heinrich Jensch, Frankfurt am Main Hochst, Germany, assignor to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius und Brüning, Frankfurt am Main Hochst, Germany, a company of Germany
No Drawing. Application September 3, 1952, Serial No. 307,697. In Germany July 24, 1950
6 Claims. (Cl. 260—564)

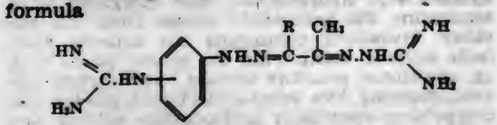
1. The compounds of the following general formula



wherein R stands for a member selected from the group consisting of hydrogen and aliphatic hydrocarbon radicals containing 1 to 3 carbon atoms.

2,655,540
BIS-HYDRAZONES
Heinrich Jensch, Frankfurt am Main Hochst, Germany, assignor to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius und Brüning, Frankfurt am Main Hochst, Germany, a company of Germany
No Drawing. Application September 3, 1952, Serial No. 307,696. In Germany July 24, 1950
6 Claims. (Cl. 260—565)

1. The compounds of the following general formula



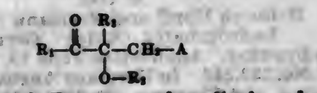
wherein R stands for a member selected from the group consisting of hydrogen and aliphatic hydrocarbon radicals containing 1 to 3 carbon atoms.

2,655,541
PREPARATION OF CHOLINE CHLORIDE
Heinrich Hopff, Ludwigshafen (Rhine), and Karl Vierling, am Muehlrain, Neckargemuend, Germany
No Drawing. Application October 13, 1949, Serial No. 121,222. In Germany October 14, 1948
2 Claims. (Cl. 260—567.6)

2. An improved process for the production of choline chloride which consists in passing gaseous trimethyl amine into ethylene chlorohydrine at ordinary pressure and at temperatures between 50° C. and 120° C.

2,655,542
AMINOKETONES
John B. Wright and Edward H. Lincoln, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan
No Drawing. Application April 17, 1952, Serial No. 282,899
14 Claims. (Cl. 260—570.6)

1. A compound selected from the group consisting of (1) amine bases represented by the formula:



wherein R_1 and R_2 are aryl radicals selected from the group consisting of phenyl, lower-alkylphenyl, lower-alkoxyphenyl, benzyloxyphenyl, halophenyl and hydroxyphenyl radicals; wherein R_3 is selected from the group consisting of hydrogen and hydrocarbon radicals containing from one to eight carbon atoms, inclusive; and wherein A is a tertiary amine radical whose valence belongs to the amine nitrogen and which is selected from the group consisting of di-lower-alkylamine, N-(lower-alkyl) benzylamine, dibenzylamine, pyrrolidine, piperidine and morpholine radicals; (2) acid addition salts thereof; and (3) quaternary ammonium salts thereof.

2,655,543
STABILIZED AROMATIC AMINES
Adrian L. Linch, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 6, 1950, Serial No. 188,871
21 Claims. (Cl. 260—576)

1. A composition consisting essentially of an aromatic amine containing 1 to 2 benzene rings in which each ring carbon atom is a member of only one ring and which is also a member of the group consisting of aromatic amines which consist of carbon, hydrogen and the amino nitrogen atoms, aromatic amines which consist of carbon, hydrogen and the amino nitrogen atoms and a chlorine atom, and aromatic amines which consist of carbon, hydrogen and the amino nitrogen atoms and a hydroxyl group, and from about 0.01% to about 0.5% of a member of the group consisting of heterocyclic compounds and their zinc salts in which each heterocyclic compound consists of 2 to 10 carbon atoms, 1 to 3 heterocyclic nitrogen atoms, 1 to 3 sulfur atoms and at least 2 hydrogen atoms and contains a single heterocyclic ring of 5 to 6 atoms composed of at least 2 carbon atoms, a nitrogen atom and 1 to 2 additional atoms selected from the group consisting of sulfur and nitrogen atoms, the substituents on the nitrogen atoms being restricted to hydrogen atoms and the substituents on the carbon atoms of the heterocyclic ring being restricted to at least one member of the group consisting of hydrogen atoms, saturated hydrocarbon radicals, —SH and =S, all carbon-carbon bonds in the heterocyclic compound being single bonds.

2,655,544
ALKYLATION OF PHENOLS WITH POLYPROPYLENE
George M. McNulty and Thomas Cress, Jr., Union, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 29, 1945, Serial No. 638,436
3 Claims. (Cl. 260—609)

2. The process of preparing an alkylated phenol product, which comprises polymerizing propylene in the presence of boron fluoride as a catalyst at a temperature sufficiently low to form a polymer product containing predominantly propylene polymers having 18 to 24 carbon atoms per molecule, reacting phenol with a thus-obtained propylene polymer having between 18 to 24 carbon atoms per molecule in the presence of boron fluoride as a catalyst at a temperature in the range of 30 to 50° C. to form an alkyl phenol in which the propylene polymer is the substituent alkyl side chain group, reacting 2 moles of the alkyl phenol with 1 to 2 moles of sulfur dichloride at about room temperature to form an alkyl phenol sulfide, and reacting the alkyl phenol sulfide with barium hydrate at about 110 to 150° C. to form a normal barium salt of the alkyl phenol sulfide.

2,655,545
MANUFACTURE OF α,α-DIMETHYLBENZYL-HYDROPEROXIDE
Eberhard Brüning, Leverkusen-Bayerwerk, Detlef Delfs, Leverkusen, and Georg Spielberger, Leverkusen-Bayerwerk, Germany, assignors to Farbenfabriken Bayer, Leverkusen, Germany
No Drawing. Application March 3, 1951, Serial No. 213,906. In Germany March 3, 1950
11 Claims. (Cl. 260—610)

1. A process for the manufacture of α,α-dimethylbenzylhydroperoxide which comprises reacting isopropylbenzene with molecular oxygen at elevated temperatures not exceeding the boiling temperature of the isopropylbenzene, in the presence of a transition metal, the concentration of said transition metal dissolved in the reaction mixture not exceeding that concentration of the same catalyst which decomposes ⅓ of the peroxide content of a mixture of 15 parts by weight of α,α-dimethylbenzylhydroperoxide and 85 parts by weight of isopropylbenzene at a temperature of 80° C. within 45 hours.

2,655,546
PREPARATION OF TERTIARY ALKYL ARYL ETHERS
Donald R. Stevens, Wilkinsburg, and Robert S. Bowman, Pittsburgh, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application April 26, 1951, Serial No. 223,142
11 Claims. (Cl. 260—613)

1. A process for preparing a tertiary alkyl aryl ether which comprises reacting an isoolefin and a phenol at a temperature not exceeding about 65° C. and in the presence of a trace, not exceeding about 0.28 mol per cent based on the phenol, of a catalyst selected from the group consisting of sulfuric acid, chlorosulfonic acid, benzene sulfonic acid, alkali metal acid sulfates, alkyl acid sulfates having 1 to 9 carbon atoms and di-sec-alkyl sulfates having 3 to 6 carbon atoms in each alkyl group, the amount of said catalyst being varied depending upon the temperature employed, smaller amounts of the catalyst being used at higher temperatures; and stabilizing the resulting reaction product containing a tertiary alkyl aryl ether against said ether's rearranging to form the corresponding alkyl phenol.

2,655,547
PRODUCTION OF ALKYLPHENOLS
Fred Bryner, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
No Drawing. Application June 2, 1952, Serial No. 291,319
15 Claims. (Cl. 260—620)

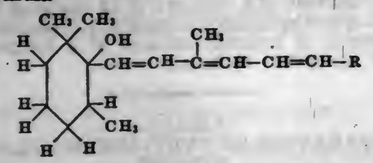
9. A process for the production of tertiary-butylphenol compounds containing a large proportion of the ortho isomer which comprises bringing one molecular proportion of isobutylene into contact with greater than one molecular proportion of a phenol containing not more than one nuclear substituent ortho to the hydroxy group, in the presence of 0.1 to 10 per cent by weight of

phosphorus oxychloride catalyst based on the weight of the phenol, at a temperature in the range of 30° to 200° C. for a time sufficient to effect substantially complete reaction, and recovering the ortho-tert-butylphenol compound so produced.

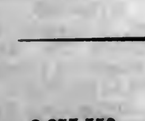
12. A process according to claim 9 for the production of tert-butyl-o-phenylphenols containing a large proportion of 6-tert-butyl-o-phenylphenol wherein isobutylene is reacted with o-phenylphenol.

2,655,548
NEW UNSATURATED CARBINOLS AND PROCESS FOR PREPARING SAME
Ronald Major Evans, Ickenham, and John Harold Chapman, Ruislip, England, assignors to Glaxo Laboratories Limited, Greenford, England, a British company
No Drawing. Application June 21, 1951, Serial No. 232,862. In Great Britain July 5, 1950
15 Claims. (Cl. 260—631)

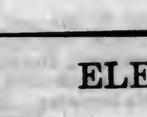
1. As new compounds, compounds of the general formula



where R is selected from the group consisting of



and



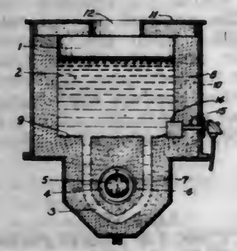
3. 3:7 - dimethyl - 9 - (1' - hydroxy - 2':6':6'-trimethylcyclohexyl)-nona-2:4:6:8-tetraen-1-ol.

2,655,549
PROCESS FOR THE PREPARATION OF LUBRICATING OIL ADDITIVES
Lester Marshall Welch, Madison, and George E. Serniuk, Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application August 30, 1950, Serial No. 182,417
3 Claims. (Cl. 260—671)

1. An improved process for the manufacture of a lubricating oil additive material having the desirable characteristic of depressing the pour point of lubricating oils into which it is incorporated which comprises admixing substantially equimolar proportions of a vinyl aromatic and a halo-alkane alkylating agent in a polar solvent, adding thereto a complex obtained by admixing a Friedel-Crafts catalyst with a material selected from the class consisting of nitromethane and nitrobenzene, maintaining the temperature of the mixture at one within the range of from —20° C. to 50° C. for a period of time sufficient to polymerize substantially all of the vinyl aromatic, and thereafter raising the reaction temperature to one within a range of from 60° C. to 100° C. to obtain the desired final product.

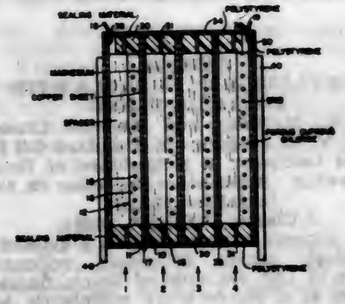
ELECTRICAL

2,655,550
MELTING FURNACE WITH THERMOCOUPLE RECEPTION MEANS
Carl M. Zvanut, Alton, Ill., assignor to Olin Industries, Inc., East Alton, Ill., a corporation of Delaware
Application May 29, 1951, Serial No. 228,964
13 Claims. (Cl. 13—24)



1. In combination, a metal melting furnace and a high temperature thermocouple reception means, said means comprising a graphite body disposed partly within said furnace and partly embedded in the side wall and floor of said furnace, said graphite body having a recess extending into that portion of said body within said furnace and adapted to receive a thermocouple, said body shielding said thermocouple from the molten metal bath in said furnace.

2,655,551
MAGNESIUM-CUPROUS CHLORIDE RESERVE BATTERY
Grenville B. Ellis, Red Bank, N. J., assignor to the United States of America as represented by the Secretary of the Army
Application July 31, 1950, Serial No. 176,889
2 Claims. (Cl. 136—100)
(Granted under Title 35, U. S. Code (1952), sec. 266)



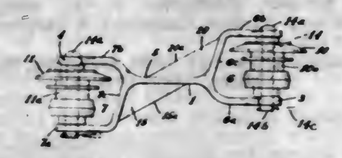
1. In a deferred action type battery using the electrochemical system magnesium-cuprous chloride and comprising a pile of flat cell units each of said flat cell units comprising a negative magnesium electrode, a positive cuprous chloride electrode, a spacer of bibulous electrolyte retaining material between said electrodes and conductive plates of liquid tight material between the cell units characterized in that said conductive plate and said magnesium electrode form a unitary structure, the free surface of said conductive plate being in intimate contact with said positive electrode, the cuprous chloride of said positive electrode constituting a porous, spongy mass made by drying a paste of finely ground cuprous chloride and water.

2,655,552
SEPARATOR FOR ELECTRIC SECONDARY BATTERIES
Leonard Fuller, London, and Jonas Abraham Sxper, Barking, England, assignors, by mesne assignments, to Leonard Fuller, London, and Edmund William Sudlow, Berkeley Gardens, England, jointly
Application August 30, 1949, Serial No. 113,078
In Great Britain August 30, 1948
3 Claims. (Cl. 136—145)



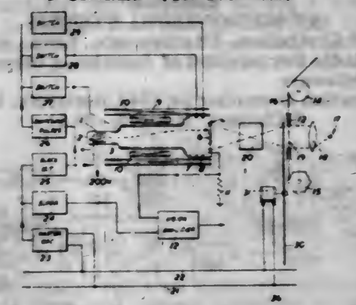
1. A space filling separator for use in secondary batteries of the dry type wherein the electrolyte is absorbed in the separators, said separator comprising a laminate consisting of a relatively thick layer of powdered absorbent lightly held together by a binder and supported on a relatively thin sheet of absorbent paper which is initially impervious to passage of the absorbent powder thereinto or therethrough and yet is subject to ultimate dissolution in the electrolyte of a battery assembly, said layer of powdered absorbent being composed of kieselguhr particles bound together by approximately fifteen per cent by weight of pre-vulcanized rubber latex.

2,655,553
LINE TRANSPOSITION BRACKET WITH REINFORCING GUSSETS
Rogers Case, Orange, N. J.
Application June 21, 1951, Serial No. 232,738
6 Claims. (Cl. 174—147)



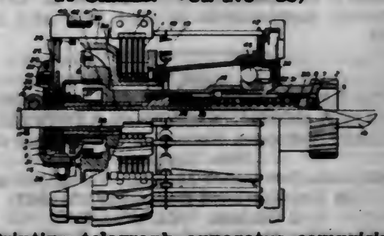
6. In a wire-transposing bracket adapted for the crossing of paired line wires, a frame having two generally parallel reaches terminally forked at both ends of each by means of longer and shorter legs angularly extended from a central base region to provide four outwardly open insulator-mounting clevises, the longer and shorter legs of the clevises of each said reach being reversed in the said two forked reaches to give a diagonal matching of higher and lower insulator-mounting clevises in the bracket frame, two reaches interconnecting the said two forked reaches; and two strengthening gussets extended between and integrated with the longer legs of the said clevises of each forked reach and adjacent surfaces of the said base region thereof, said two gussets of each said reach being arranged in an approximately diagonal line relatively to each other to provide reinforcement in the structure of the bracket frame and composite stress resistance against the load imposed by wires trained on insulators mounted in the said clevis and transposed by the bracket.

2,655,554
GENERATION OF PICTURE SIGNALS FOR TELEVISION TRANSMISSION
Charles Alan Johnson, East Twickenham, England, assignor to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain
Application May 27, 1949, Serial No. 95,663
In Great Britain June 3, 1948
8 Claims. (Cl. 178—7.2)



1. Apparatus for generating television picture signals, comprising a television pick-up tube having a mosaic electrode, means for deflecting an electron-beam to produce scanning traversals of said mosaic electrode with intervals between successive traversals, means for projecting an image to be televised on said mosaic electrode during said intervals and for cutting off said image during said traversals, an electrode in said tube for controlling the saturation of electron emission from said mosaic electrode, and switching means for maintaining said second electrode at one potential during said traversals and at a lower potential during said intervals to reduce the potential to which the mosaic electrode can be charged by said image.

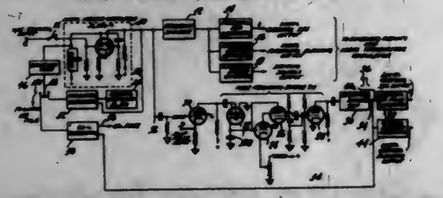
2,655,555
PRINTING TELEGRAPH APPARATUS
Reginald Dennis Salmon, Croydon, England, assignor to Creed and Company Limited, Croydon, England, a British company
Application May 11, 1951, Serial No. 225,700
In Great Britain May 22, 1950
10 Claims. (Cl. 178—33)



1. Printing telegraph apparatus comprising a rotatable member, a continuously rotating shaft, a friction clutch for driving said rotatable member from said shaft, a stop member for defining a stopping position for said rotatable member, a first stop arm resiliently connected to said rotatable member, a second stop arm resiliently connected to said rotatable member, a clutch lever rotatable independently of said stop arms, a clutch spring tending both to engage said friction clutch and to maintain said clutch lever in advance of said stop arms, means for bringing said stop member into the path of said stop arms and said clutch lever, means for causing said clutch lever when arrested by said stop member to oppose

said clutch spring to disengage said friction clutch, means for causing said stop arms to be positioned on opposite sides of said stop member and damping means for bringing said rotatable member to rest in the position defined by said stop member after a limited amount of oscillation about said position.

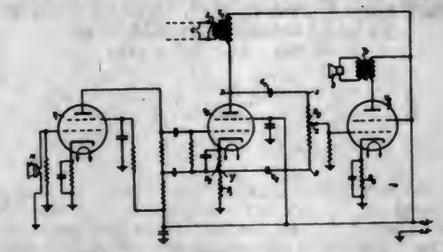
2,655,556
SYNCHRONIZING SYSTEM
Robert C. Abelson, Chattanooga, Tenn., assignor to Radio Corporation of America, a corporation of Delaware
Application December 30, 1949, Serial No. 136,947
8 Claims. (Cl. 178—69.5)



1. In a synchronizing system for effecting "lock-in" between local and remote television sync generators, a first and a second composite wave sync generator, each generator including a base oscillator from which is synchronously derived a high and low-frequency component for each composite wave, said second composite wave low-frequency component being related to its respective base oscillator by a frequency divider mechanism having a predetermined value of divisor, means for deriving a timing signal from said first composite wave high-frequency component, means for synchronizing said second base oscillator with said timing signal, means for intermittently and momentarily altering the divisor of said frequency divider mechanism, means for electrically comparing the timing of said first wave low-frequency component with the timing of said second wave low-frequency component to derive a control signal, and means responsive to said control signal for actuating said divisor altering means such to effect that timing slippage of said second wave low-frequency component relative to its respective base oscillator necessary to establish coincidence of the low-frequency components of said first and second waves.

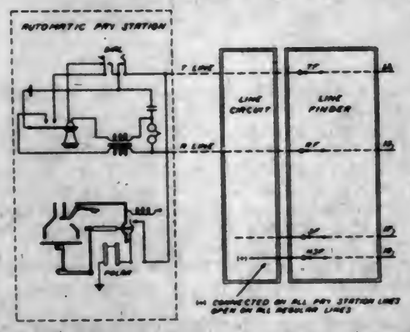
2,655,557
APPARATUS FOR USE IN TELEPHONE OR LIKE COMMUNICATION SYSTEMS
Keith Simmons Stanbury, Christchurch, New Zealand
Application November 30, 1948, Serial No. 62,642
In New Zealand December 22, 1947
3 Claims. (Cl. 179—1)

1. A communication apparatus for use at one station for providing two-way communication over a two-wire single transmission channel between said station and another station, said apparatus comprising a transformer having primary and secondary windings, one of said windings being connected across the wires of said transmission channel, an amplifier including an amplifying tube having an anode, a control electrode, and a cathode, a circuit connecting the other winding of said transformer and a load resistance in series between said anode and said cathode, means connecting the circuit at a point between the transformer winding and said load resistance to ground, a signal source, a circuit coupling said source between the cathode and the control electrode of said amplifier tube whereby signals from said source are applied through said amplifier tube to said other winding of said transformer for transmission to said communication channel, a resistor, means including a condenser connecting one end of the resistor to the cathode and a condenser connecting the other end of the resistor to the anode of said amplifier tube, an adjustable tap on said resistor movable along the resistor between the ends thereof for selecting a point at which the potential variations with respect to ground are zero, a signal responsive device, an amplifier for said signal



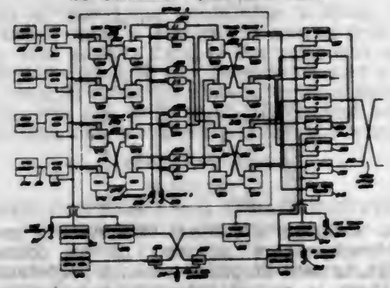
responsive device including an amplifier tube having a cathode, an input electrode and an anode, an input circuit connected between the input electrode and said cathode, and means connecting the input electrode of the amplifier tube of said signal responsive device amplifier to said resistor tap at the point where the potential variations are substantially zero relative to ground and means connecting the cathode of said last mentioned tube to ground for the transmission of signals from said channel through the transformer windings to said signal responsive device without the latter device responding to signals from said signal source.

2,655,558
TELEPHONE PAY STATION ADAPTER COMMON TO A PLURALITY OF LINES
Frank Kessler, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York
Application June 17, 1949, Serial No. 99,738
9 Claims. (Cl. 179—6.3)



1. In a telephone system, a first calling line and a second calling line, a finder link controlled by the removal of the receiver at the substation of either of said calling lines for extending a connection thereto, directively controlled switching devices controlled from either of said calling lines by way of said finder link for extending a talking connection to a called line, a discriminating device permanently associated with said finder link, and means controlled by said discriminating device in response to the replacement of the receiver at a calling station for effecting the immediate release of the connection if originated from said first calling line and for delaying the release of the connection if originated from said second calling line whereby coin control current may or may not be applied to said second line before it is released from said link.

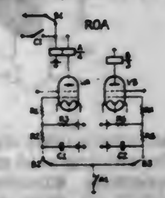
2,655,559
HIGH-SPEED ELECTRONIC TELEPHONE SWITCHING SYSTEM
William A. Malthaner, Summit, and Henry E. Vaughan, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 16, 1949, Serial No. 115,961
23 Claims. (Cl. 179—18)



1. In a telephone switching system, in combination, a first switching station, a plurality of subscriber stations connected by lines to said first switching station, a second switching station, a plurality of other subscriber stations connected by other lines to said second switching station, transmission paths interconnecting said switching stations, calling apparatus at each subscriber station for repeatedly transmitting a series of signals representing a called station designation from one of said subscriber stations to the switching station to which said subscriber station is connected, responsive apparatus including signal registering means and selective path establishing means at said first switching station whereby upon the reception of at least a portion of one of the repeatedly transmitted series of the signals designating a called station a path is selectively established through said switching station to one of said transmission paths, means whereby upon the establishing of said path subsequent series of said repeatedly transmitted signals are transmitted over said path established between said first switching station and said second switching station, and responsive apparatus at said second switching station whereby upon the reception of at least a portion of said repeatedly transmitted series of signals transmitted from said subscriber station a transmission path is established through said second switching station to the called line of the subscriber station designated by the series of signals.

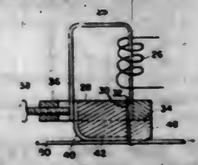
2,655,560
CIRCUIT ARRANGEMENT INCLUDING LOW-FREQUENCY RELAXATION OSCILLATORS
Alan Davison and Leslie John Allen, Liverpool, England, assignors to Automatic Telephone & Electric Company Limited, Liverpool, England, a British company
Application September 12, 1951, Serial No. 246,312
In Great Britain October 12, 1950
10 Claims. (Cl. 179—84)

5. A ringing and tone generator comprising a constant frequency oscillation generator, a first asymmetric relaxation circuit, a first electromagnetic relay operated when said first relaxation circuit is in one condition of unstable equilibrium, a second asymmetric relaxation circuit having a frequency which is a multiple of the frequency of said first relaxation circuit and interconnected with said first relaxation circuit, an electromagnetic relay operated when said second relaxation circuit is in one condition of unstable equilibrium, a symmetrical multivibrator having a frequency which is greater than that of said first and second relaxation circuits and less than that of said oscillation generator, third and fourth electro-



magnetic relays operated when said multivibrator is in its first and second condition of unstable equilibrium respectively, a first output circuit for said constant frequency oscillation generator, said output circuit having two branches one of which is connected to deliver a continuous tone having the frequency of said oscillation generator while the second branch is interrupted by the operation of a contact of said first electromagnetic relay and a second output circuit for said constant frequency oscillation generator modulated by the operation of a contact of said third electromagnetic relay and interrupted by the operation of a contact of said second electromagnetic relay.

2,655,561
APPARATUS FOR MAGNETIC RECORDING
Lawrence H. Connell, Detroit, Mich.
Application August 9, 1948, Serial No. 43,288
5 Claims. (Cl. 179—100.2)

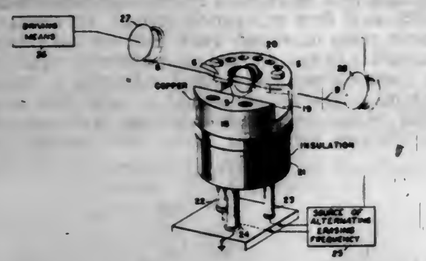


1. A magnetic recording head for magnetizing an elongated record element of permanent magnet material which comprises a pair of poles spaced apart longitudinally of the direction of travel of the record element and having surfaces for running engagement therewith, the approaching pole being a flat strip disposed to present a side surface for extended contact therealong with the record element and an end surface at the gap, the departing pole being a thin flat strip disposed to present an end surface for limited contact cross-wise thereof with the record element and a side surface at the gap.

2,655,562
ERASING HEAD FOR MAGNETIC RECORDING
Donald L. Clark, Rochester, N. Y., assignor to Stromberg-Carlson Company, Rochester, N. Y., a corporation of New York
Application February 23, 1945, Serial No. 579,393
7 Claims. (Cl. 179—100.2)

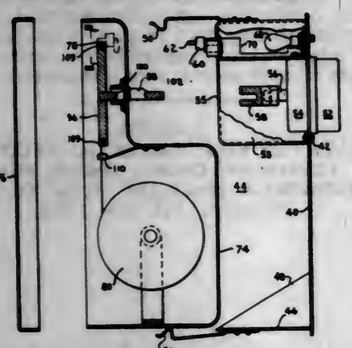
4. In magnetic apparatus comprising an erasing head for erasing a record from a ferromag-

netic medium having a signal magnetically recorded thereon including a core of magnetic material having a plurality of gaps across a surface thereof, and means utilizing interconnected magnetic circuits in said core for developing



across each gap an alternating magnetic erasing field, and means for guiding said medium through said fields in succession whereby said erasing fields act successively on each element of said medium to remove said signal therefrom.

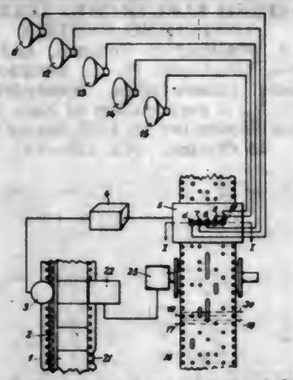
2,655,563
MAGNETIC REPRODUCING SERVICE FOR AUTOMOBILES
Lawrence H. Connell, Detroit, Mich.
Application March 31, 1947, Serial No. 738,439
11 Claims. (Cl. 179—100.2)



1. A magnetic play back device divided into two separable parts, one part including a magnetically sensitive reproducing head and a rotatable driving member, the other part including a pair of reels adapted to support a wire for unwinding from one reel and winding upon the other reel and a rotatable driven capstan member intermediate said reels operable to unwind the wire from one reel and wind it upon the other reel, and means for mounting said two parts of the device in juxtaposition to one another with the reproducing head of the one part in magnetic relation to the wire as it passes over the capstan member of the other part and with the driving and driven members of the two parts in operatively coupled relationship.

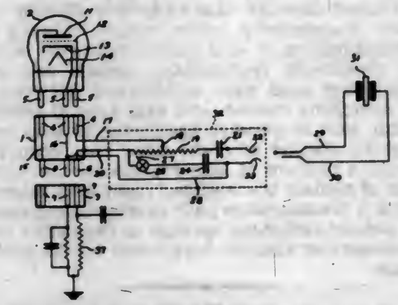
2,655,564
METHOD OF OBTAINING STEREOPHONIC SOUND
Aage Holt-Seeland, Los Angeles, Calif.
Application September 5, 1951, Serial No. 245,149
In Norway November 10, 1950
4 Claims. (Cl. 179—100.2)

1. A system for the reproduction of sound to obtain stereophonic sound from a film strip having a sound track by means of a plurality of loudspeakers selectively connected into the amplifier of the system according to the starting point of the sound inside or outside of the screen area so that the sound will be adapted to the pictures displayed from the film strip at any time, comprising means including a perforated strip of electric insulating material, a contact means operatively associated with said perforated strip and connected into said amplifier, said contact



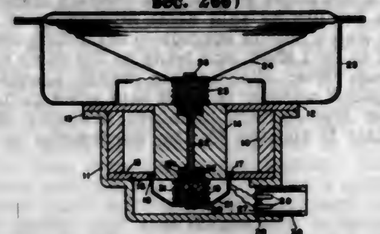
means including a contact terminal for each of said loudspeakers adapted to be connected through to said amplifier when a perforation in said sheet is moved into alignment with said terminal, said film strip being provided with marks located thereon, and means responsive to said marks on the film strip for advancing said perforated strip relative to said contact means thereby effecting connection of the desired ones of said loudspeakers with the amplifier.

2,655,565
RADIO-PHONOGRAPH ADAPTER
Thomas F. Thompson, Eugene, Oreg., assignor of one-third to Dale Belford and one-third to Oliver D. Olson, both of Portland, Oreg., and one-sixth to Richard B. Thompson, Eugene, Oreg.
Application April 12, 1950, Serial No. 155,529
12 Claims. (Cl. 179—100.11)



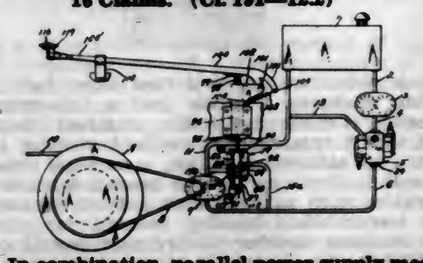
1. An adapter for detachably interconnecting a signal generator and an amplifier wherein said amplifier includes a cathode and a grid circuit, said adapter comprising a resistance, a bypass condenser, terminal means for connecting the output of the signal generator, and means for detachably connecting at least part of the resistance in series in the grid circuit to amplify the generated signal and for detachably connecting the bypass condenser and the terminal means between the cathode and grid circuit at opposite ends of the series portion of the resistance.

2,655,566
EXPLOSION-PROOF ACOUSTIC DEVICE
Abraham L. Pittinger, China Lake, Calif.
Application May 3, 1949, Serial No. 91,267
9 Claims. (Cl. 179—115.5)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a transducer containing a sealed voice coil, and a speaker diaphragm spaced from said coil, a first bellows fixed to the voice coil, a second bellows fixed to the diaphragm, and a fluid filled conduit connecting the interior of said first bellows with the interior of said second bellows to transmit relative movement therebetween.

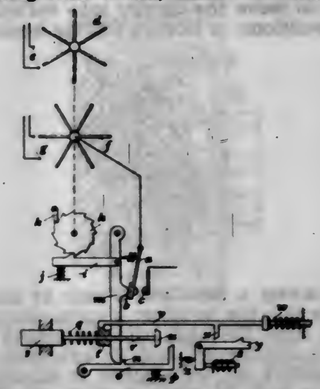
2,655,567
REEL CONTROLLING APPARATUS FOR CABLE REELS OF MINE CARS
James W. Woolf, Franklin, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application July 15, 1949, Serial No. 104,964
16 Claims. (Cl. 191—12.2)



1. In combination, parallel power supply means for a vehicle including a trolley and a cable, a winding reel for said cable, a fluid motor for driving said reel in a direction for winding said cable thereon, a fluid pump for supplying driving fluid to said fluid motor and means controlled by said trolley for interrupting the drive of said fluid motor by the fluid from said fluid pump when said trolley is moved into trolley wire engaging position.

2,655,568
ELECTRICAL SWITCHING APPARATUS
William George Bourne, Acton, London, England, assignor to Rotax Limited, London, England
Application July 2, 1951, Serial No. 234,844
In Great Britain July 5, 1950
1 Claim. (Cl. 200—5)

An electrical switching apparatus comprising in combination a main switch having a movable actuating member, a selector switch having a rotary contact member, a ratchet wheel operatively connected to said rotary contact member, a pawl engaging said ratchet wheel and connected to said actuating member so that movement of the latter in the direction for closing said main switch is accompanied by rotational movement of said ratchet wheel, a catch engageable with said actuating member to prevent movement thereof in the direction for closing said main switch, a manually operable member which upon being moved in one direction encounters said catch and effects disengagement thereof from said actuating member, a spring compressible by said manually operable member during movement of the latter in the direction for encountering said catch, means having a part



which forms an abutment for said spring, and through the medium of which said spring acts on said actuating member for causing the latter to close said main switch upon disengagement of said catch from said actuating member, and a second catch engageable with said means for holding said main switch in its closed condition.

2,655,569
AUTOMATIC KEY EJECTOR
George E. St. John, Palmdale, Calif.
Application July 18, 1951, Serial No. 237,367
3 Claims. (Cl. 200—42)

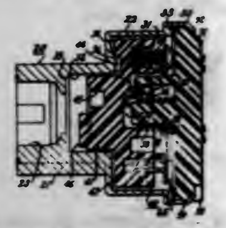


1. An automatic key ejector for an ignition switch comprising a casing having a lock barrel non-rotatably mounted in the front end thereof, a bolt and slide assembly rotatable in said barrel, and a key for rotating the bolt, an annular first insulator disk fixed in said casing rearwardly of said barrel, a second annular insulator disk carried by said bolt for rotation thereby in said casing between the bolt and first insulator disk, a pair of spaced contacts on said first disk, means on said second disk for bridging said pair of contacts upon rotation of said second disk, a key ejector pin movable rearwardly through both said disks by the key to provide for insertion of the key, and spring means in said casing in the rear of said first disk operatively connected to said pin to move the same forwardly through both said disks to eject the key.

2,655,570
SWITCH
William E. Brown, David C. Redick, and Carl E. McWilliams, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 4, 1950, Serial No. 177,618
7 Claims. (Cl. 200—44)

1. In a combined switch and lock structure the combination comprising: a housing; a rotary

lock cylinder mounted in the housing; a rotary contact carrier mounted in the housing for movement into a plurality of circuit closing positions; interlocking connections between the lock cylinder and the carrier to transmit rotary movements from the cylinder to the carrier; manually operated means for actuating the lock cylinder to move the carrier into various circuit closing positions; a closure for the housing, said



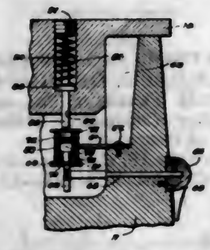
closure having a post and a pair of abutments extending into the housing; a spring coiled about the post with the ends thereof biased against respective abutments; and an extension carried by the contact carrier adapted to engage one of the spring ends to move it from its abutment when the contact carrier is moved beyond one circuit closing position, said spring returning the carrier to said one circuit closing position upon release of the manually operated means.

2,655,571
PRESSURE INDICATOR FOR PNEUMATIC TIRES
Lumpkin D. Loggins, Commerce, Ga.
Application May 19, 1950, Serial No. 162,880
1 Claim. (Cl. 200—61.25)



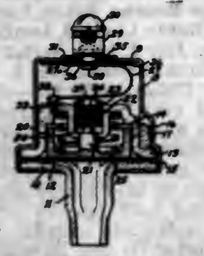
A switch for use with a pneumatic tired wheel of an automobile comprising an air pressure responsive device mounted upon the wheel for rotation therewith, a brake drum and a brake mechanism associated therewith, a disc of dielectric material affixed upon said brake mechanism concentrically with said drum, three concentric contact rings mounted upon said disc, three reciprocal contact members extending through said drum and each adapted to contact one of said rings when moved inwardly of said wheel, pressure-operated means connected with said pressure responsive device for selectively moving said reciprocal contact members to contact the center and outer or the center and inner rings, said rings, and said contact members, said pressure reciprocal device including a cylinder, a piston within the cylinder, a piston rod connected to said piston at its inner end and extending outwardly from said cylinder, a shaft, an arm extending radially from said shaft and pivotally connected with the outer end of the piston rod, and means including said shaft for selectively reciprocating said contact members, said last mentioned means including a plate carried on the outer side of the wheel, arms hingedly connected at one end with said plate and extending through the outer ends of the contact members, springs for urging said arms outwardly of said wheels, and a pair of oppositely extending cranks formed in said shaft and lying in the same plane with each other, each of said cranks adapted to bear against selected pairs of said arms to thereby move the contact members inwardly when said shaft is rotated by the movements of the piston.

2,655,572
SWITCH
Fred C. Schwaneke, Chicago, Ill., assignor to Dormeyer Corporation, Chicago, Ill., a corporation of Illinois
Original application June 15, 1948, Serial No. 33,191. Divided and this application September 29, 1949, Serial No. 118,568
10 Claims. (Cl. 200—61.58)



1. A switch for use in a food mixer having a casing enclosing a motor and a transmission housing element removably attached thereto, said switch comprising a resilient member supported on said mixer casing, a movable contact on said resilient member, a second contact cooperating with said movable contact, means on the transmission housing element for urging said resilient member toward said second contact when the element is attached to said casing, and manually actuated means for separating said two contacts.

2,655,573
FLUID PRESSURE SWITCH
Alex N. Szwargulski, St. Louis, and Paul R. Larson, Pine Lawn, Mo., assignors to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application January 15, 1951, Serial No. 206,087
4 Claims. (Cl. 200—83)



1. In a fluid pressure switch, a fluid pressure connection having a surrounding wall, a flexible diaphragm clamped against said wall, a movable and a stationary switch contact on the opposite

side of said diaphragm from said connection, a carrier for said movable contact, a member rigidly supported between said diaphragm and said movable switch contact and having a guide recess, said stationary contact being mounted on said member, a switch actuating plunger extending from said diaphragm to the proximity of said switch contact carrier, said plunger including shank and head parts threadedly connected for relative adjustment, one of said parts being slidably received in said guide recess to resist unauthorized rotation thereof, and a spring stressed between said member and said plunger for urging the latter and said diaphragm in opposition to the fluid pressure applied through said connection, said plunger also including a spring seat element rigid therewith and interposed between said spring and said diaphragm whereby said spring frictionally urges said plunger against said diaphragm to resist relative turning thereof.

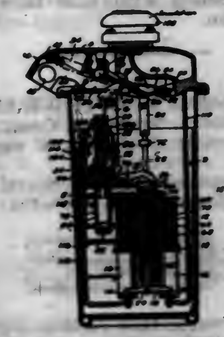
2,655,574
FLOAT SWITCH FOR WATER COOLERS
John G. Wehrwein, Havertown, Pa., assignor to Sunrec Refrigeration Company, Dover, Del., a corporation of Delaware
Application April 11, 1950, Serial No. 155,250
1 Claim. (Cl. 200—84)



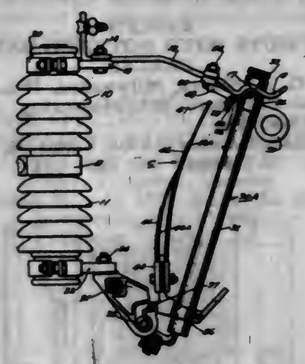
In a float switch device for control of liquid level, a resilient support, a float at one end of the support, a sealed switch in the float having walls forming an upwardly directed receptacle at the bottom thereof, a pool of mercury in the receptacle, a contact connected to the pool, an electrically insulating upwardly directed cup supported in the sealed switch at a level above the bottom of the receptacle, in one position of the switch above the top of the pool of mercury, and in another position of the switch below the top of the pool of mercury, a contact extending from above into the cup and insulated from the pool in one operative position of the float, and wires extending through the support to the contacts.

2,655,575
AUTOMATIC RECLOSING CIRCUIT BREAKER
James M. Wallace, East McKeesport, and John W. Stirling, Jr., Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 20, 1947, Serial No. 787,206
5 Claims. (Cl. 200—89)

1. An automatic reclosing circuit breaker, comprising, separable contacts, current responsive means having a part which is moved in response to overloads on the circuit a predetermined amount before causing a quick separation of said contacts, means for automatically closing said contacts following a circuit opening operation, means actuated during a cycle of operation of said breaker comprising a circuit opening and succeeding closing operation for counting the number of closely successive cycles of operation, means for slowly resetting said counting means so that it will not count widely spaced cycles of operation, normally ineffective time delay means operatively connected with said part, a connection between said time delay means and said counting means for rendering said time delay means effective to delay separation of said contacts only in response to a predetermined cycle of operation of said breaker in a series of closely successive cycles of operation, and means also connected to said counting means and said current responsive means for causing the latter to respond only to substantially higher values of current on the aforesaid predetermined cycle of operation, to thereby obtain a relatively wide current range of operation for purposes of coordination with other circuit interrupting devices.



2,655,576
DROP OUT FUSE SWITCH
Winferd G. Milne, Hamilton, Ontario, and Reginald E. Jones, Toronto, Ontario, Canada, assignors to N. Slater Company Limited, Hamilton, Ontario, Canada
Application April 15, 1953, Serial No. 349,074
6 Claims. (Cl. 200—114)



1. In a drop out fuse switch of the kind described including a resilient contact bracket and a hinge bracket forming the terminals of the switch, a switch arm comprising an insulating tube, a top contact member carried by said tube for electrical engagement with said resilient contact bracket, a crank pivotally supported by said hinge bracket, a conductor including a fusible element within said tube electrically connected between said top contact member and said crank, a clamp carried by said tube and having a portion pivotally supported by said crank, the arrangement being such that said switch arm drops and swings open to break the circuit between the terminals when said fusible element blows out under an overload; the improvement comprising, spring conductor means secured to a conductor member associated with said tube bodily to move therewith, a latching device electrically connected to said resilient contact bracket and lying in the path of said spring means to be engaged

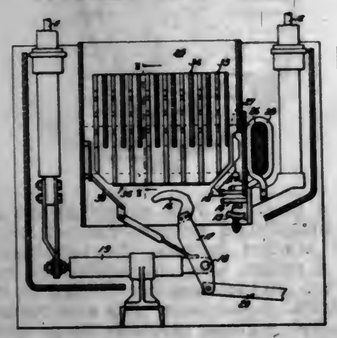
thereby as said tube is swung toward circuit-breaking position and to retain said engagement until the circuit has been effectively broken between said terminals of the switch, said latching device operating to permit unimpeded return of said spring means with said tube to circuit-making position.

2,655,577
RENEWABLE FUSE END WASHER
Fred G. von Hoorn, Trumbull, Conn., assignor to General Electric Company, a corporation of New York
Application September 6, 1951, Serial No. 245,288
5 Claims. (Cl. 200—132)



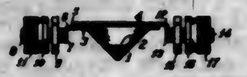
1. In a renewable fuse having a pair of knife blades, each blade having a narrow inner end and a wide outer end, said blades being detachably connected together by both an insulating spacer bar and a fuse link, said bar and link being contained within an insulating housing, the invention comprising end washers for sealing the space between the knife blades and said housing, said washers having a central slot to receive the narrow inner portion of the blades so that the washers are disposed between the wide outer portion of the blades and the ends of the spacer bar, the inner face of each washer being provided with projecting means which engage with the side edges of said bar to prevent any misalignment between the blade and the spacer bar.

2,655,578
ARC CHUTE WITH NOTCHED BARRIER PLATES
Thomas G. A. Sillers, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Application October 2, 1950, Serial No. 187,955
13 Claims. (Cl. 200—144)



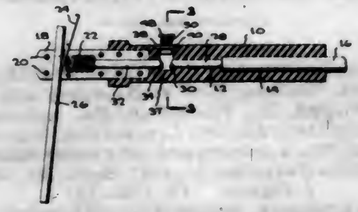
1. An electric circuit interrupter comprising means for drawing an arc and an arc chute for receiving and extinguishing the arc, said chute comprising spaced insulating side walls having extending from the sides facing each other a plurality of fins which extend longitudinally of said chute in a direction generally transversely of the movement of said arc, said fins being tapered in height along the edges thereof extending away from said side walls toward the arc receiving end of said chute to provide an arc passage, said tapered edges being provided with a plurality of serrations for cooling and retarding said arc as it moves through said chute.

2,655,579
MERCURY SWITCH
Howard N. Barroughs, Clarksville, Iowa
Application July 31, 1950, Serial No. 176,862
1 Claim. (Cl. 200—153)



A mercury switch for grounding the primary circuit of an ignition system comprising a metal cup of inverted conical shape constituting a mercury container open at its top and forming a lower contact, a pool of mercury in said cup normally disposed at the bottom thereof and being freely movable along the wall of the cup toward the top thereof when the cup is tilted from a normally upright position toward an inverted position, an outstanding annular rim extending about the open top of the cup and carried by the wall, a metal cover for the cup consisting of a disk completely closing the top of the cup and having a marginal portion entirely about its circumference disposed over and supported by said rim, said disk constituting an upper contact engageable at any point about its circumference by the mercury when the cup is tilted toward an inverted position, a continuous annular ring of insulating material resting on the rim and interposed between the said rim and the overlapping marginal portion of the cover and adheringly secured thereto and forming a sealed joint between the cup and the cover, arms extending outwardly and downwardly from the cover and the rim in rigid connection therewith and spaced from each other circumferentially thereof, binding posts carried by and extending outwardly from the depending portions of said arms, and a bracket having one end detachably mounted about one binding post and its other end adapted for detachable connection with the binding post of the primary circuit of a magneto whereby the mercury switch is supported thereon.

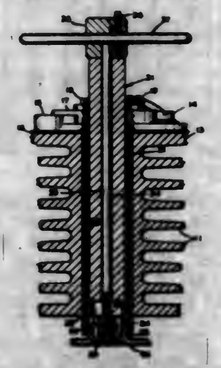
2,655,580
SAFETY SWITCH FOR WELDING HOLDERS
Andrew T. Tetrault, Indian Orchard, Mass.
Application December 14, 1951, Serial No. 261,725
2 Claims. (Cl. 200—157)



1. In a safety switch for an electric welding holder, the combination with a holder body having a longitudinal bore and a transverse passage communicating with and extending laterally from the bore, said passage having a closed inner end and having an outer end opening upon the outer surface of the body, and with a pair of electrically conductive bars arranged coaxially within said bore, said bars having spaced, confronting, oppositely beveled ends projecting into the passage and spaced from the inner end of the passage, of a stem of insulating material mounted within the passage to slide transversely of the body toward and away from said bars and having its opposite ends disposed within and without the body, respectively; a mounting plate

fixed to the holder body and having an opening registering with said passage and formed to a diameter smaller than that of the passage; a spring interposed between and fixedly secured at its opposite ends to said plate and to the outer end of the stem, respectively, and normally biasing the stem outwardly of the body away from said bars; and an electrically conductive contact on the inner end of the stem having its opposite sides formed complementarily to the bevels of said ends of the bars and adapted to bridge said ends upon depression of the stem against the action of the spring for closing of an electrical circuit through the bars, the space between the inner end of the passage and said bar ends providing an open area into which said stem is shiftable on wearing of the bar ends, said contact being enlarged relative to the stem and engaging against the edge of the opening of the plate on biasing of the stem outwardly of the body to limit movement of the stem away from the bars.

2,655,581
CARBON PILE REGULATOR
William G. Neild, Fairlawn, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application September 21, 1951, Serial No. 247,683
2 Claims. (Cl. 201—51)



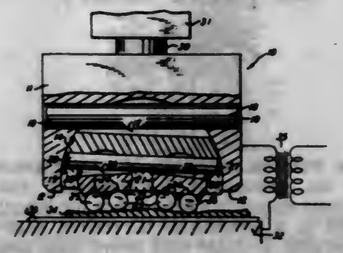
1. A method of removing a contact button from a carbon pile regulator having a carbon pile, a housing, an electromagnet including an armature assembly, and a carbon pile adjusting screw; said method comprising removing said adjusting screw, removing said carbon pile through the opening formed by the removal of said screw, inserting a tool through said opening to grip said contact button and applying pressure to said tool while holding said armature assembly against said pressure to remove said contact button.

2,655,582
NONINDUCTIVE ELECTRICAL RESISTOR
Leonard Kirby, Jr., and Gustave Arthur Erickson, Mendham, N. J., assignors to Mepco, Inc., Morristown, N. J., a corporation of New Jersey
Application February 1, 1952, Serial No. 269,480
6 Claims. (Cl. 201—73)



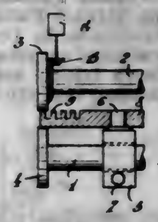
1. A non-inductive electrical resistor comprising a base of non-conducting material in the form of a straight, elongated, flexible tape and having a continuous line of resistive alloy applied thereto, the said tape being wrapped upon itself with substantially each unit length of the said line of resistive alloy lying adjacent and insulated from an equal unit length of the said line oppositely disposed with respect to electric fields generated by current flow in said line, the wrapped tape forming a package of a width equalling that of the tape.

2,655,583
WELDING ELECTRODE
John C. Souter, West Newbury, Mass., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 1, 1952, Serial No. 285,425
4 Claims. (Cl. 219—4)



1. A welding electrode comprising a member having a surface and a circular aperture intersecting the surface short of the centerline of the aperture to provide inwardly extending supporting portions, an element substantially circular in cross-section supported for rocking movement in the aperture on the supporting portions of the member, and contacts mounted at spaced positions on the element outside the aperture to move with the element to engage spaced portions of an article to be welded.

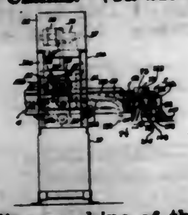
2,655,584
MEANS FOR APPLYING SEALING BANDS TO LABYRINTH PACKING DISKS
Per Gottfrid Lange and Ragnar Olov Jacob Möller, Finspong, Sweden
Application May 12, 1952, Serial No. 287,432
In Sweden July 3, 1951
4 Claims. (Cl. 219—4)



1. A mechanism for applying radially projecting sealing bands to axially projecting concentric, annular ribs of labyrinth packing discs comprising in combination, a sealing band magazine, two welding electrodes in the shape of rotatably mounted rollers having parallel axes of rotation and situated with their circumferential surfaces opposite each other, members for rotatably supporting said rollers, means for positively driving one of said rollers at least for allowing it to unroll the band from said magazine, adjustable means including a journal pin at right angles to the axes of rotation of the rollers for rotatably supporting a labyrinth disc in such a way as to permit introduction of the disc with

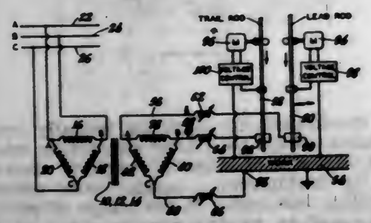
any desired rib thereof into between the rollers for bringing the circular surface of said rib into contact with the band as unrolled by a roller and allow welding of the band to the top surface of the rib according as it is deposited onto said surface.

2,655,585
WELDING MACHINE
Lee Braun, Montreal, Quebec, Canada, assignor to Dominion Bridge Company Limited, Montreal, Quebec, Canada
Application June 29, 1950, Serial No. 171,901
14 Claims. (Cl. 219—8)



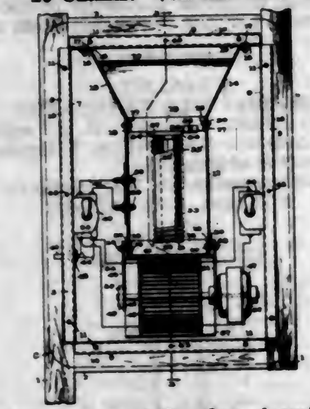
1. In a welding machine of the character described, an elongated horizontally extending beam, means mounting said beam for longitudinal movement in a horizontal direction, said means being operable to raise and lower said beam and including a platform to which one end of the beam is attached, a welding head assembly pivotally connected to the other end of the beam by connections affording a vertical axis about which the welding head assembly is swingable to different operating positions and means for swinging said welding head assembly about its vertical axis comprising a bell crank lever pivoted to said beam, link means connecting one arm of the bell crank lever to said welding head assembly, a motor mounted on said platform and motion transmitting means operatively connected to said motor and to the remaining arm of said bell crank lever and functioning in response to operation of said motor to impart swinging movement to said bell crank lever and to said welding head assembly.

2,655,586
MULTIPLE ELECTRODE POLYPHASE ARC WELDING
Norman G. Schreiner, Philadelphia, Pa., and Edwin A. Clapp, Niagara Falls, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application March 7, 1950, Serial No. 148,114
7 Claims. (Cl. 219—10)



1. The method of electric arc welding metal work which comprises maintaining at least two metal fusing and metal depositing electric arcs in tandem in a common weld zone on the work, energizing such arcs from a single three-phase power source through leads containing variable reactance means, independently and continuously supplying weld metal to each arc as metal is fused thereby, coordinating relative movement between said arcs and the work with the rate of fusion, independently controlling the voltage of each arc to maintain each arc voltage at a predetermined substantially constant value, and by varying said reactance means maintaining a phase angle of less than 140° and more than 60° between the arc currents, to vibrate at least the trailing arc with a predominantly leading component in the direction of the weld.

2,655,587
WALL-MOUNTABLE ELECTRIC HEATER AND HOUSING ASSEMBLY THEREFOR
George Steingruber, Atlanta, Ga.; Minnie Baas Steingruber, executrix of said George Steingruber, deceased
Application May 11, 1951, Serial No. 225,822
10 Claims. (Cl. 219—39)

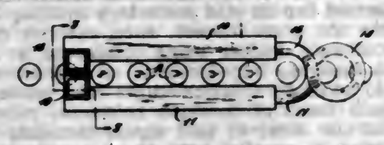


1. A space heater of the class described, comprising a housing, a unitary inner shell mounted in said housing and forming an inner air-heating chamber, said shell being spaced from said housing on all of its sides, air-heating means mounted in said chamber, air-circulating means disposed beneath the inner shell for forcing circulation of air through said chamber, means at the upper end of said chamber for directing air forced through the chamber to the exterior of said housing, and said housing having means for directing relatively cool air into the same responsive to the circulating means, said air-circulating means comprising a centrifugal fan-motor assembly supported by said inner shell, said fan motor assembly comprising a pair of spaced brackets connected to said shell, a centrifugal fan having a shaft rotatably journalled at one of its ends in one of said brackets, the opposite end of said shaft being operatively connected with an electric motor, said motor being supported on the other of said brackets, and means for supplying electric current to said motor.

2,655,588
HIGH-FREQUENCY INDUCTOR
James B. Wadhams, Cleveland, Ohio, assignor to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio
Application August 19, 1949, Serial No. 111,288
2 Claims. (Cl. 219—47)

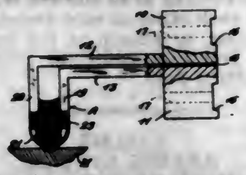
2. In a high-frequency inductor for heating a plurality of workpieces moving in a predetermined path on a generally continuously-moving support, said inductor comprising a pair of spaced elongated conductors symmetrically arranged relative to said path of movement and defining

therebetween a workpiece-receiving space and a looped conductor at the exit end of said elon-



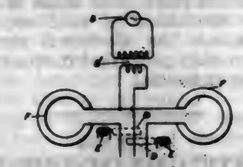
gated conductors with the axis thereof generally aligned with and generally perpendicular to the path of said movement.

2,655,589
HIGH-FREQUENCY INDUCTOR
Phillips N. Sorensen, Cleveland, Ohio, assignor to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio
Application June 2, 1950, Serial No. 166,026
1 Claim. (Cl. 219—47)



A high-frequency inductor comprising a pair of fish-tail leads adapted to be connected at one end to a high-frequency power source, said leads extending from said power source in close-spaced insulated relationship and a generally U-shaped conductor depending from said leads and including a pair of slightly-spaced legs and a generally arcuate piece interconnecting the lower end of said legs, the upper end of said legs being each connected to one of said fish-tail leads, said arcuate piece having a substantially lesser cross-sectional area than that of said legs, said legs tapering gradually from their greater cross-sectional area to the cross-sectional area of said piece, magnetically-permeable laminations disposed between said legs with their plane perpendicular to the plane of the piece, the lower edge of said laminations being recessed to receive and thereby overlap the sides of said arcuate piece, the lower surface of said arcuate piece forming the only workpiece-facing surface of said inductor.

2,655,590
INDUCTION HEATING APPARATUS
Robert Percy Govan Gardner, London, England, assignor to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio
Application December 18, 1950, Serial No. 201,338
In Great Britain January 4, 1950
17 Claims. (Cl. 219—47)



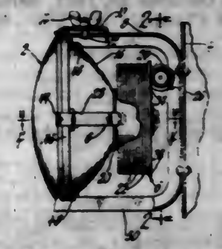
1. Induction heating apparatus comprising an electric circuit adapted to be connected to a source of alternating current and to carry a heavy current, an inductor in the circuit, a pair of heavy, rigid conductors in the circuit in close-spaced, insulated relationship having a pair of coaxial bores formed respectively in adjacent parts of them, an expanding plug adapted to extend into both the bores, and having a plurality of bridging contacts each formed so as to lie partly in one bore and partly in the other bore, and means for expanding the bridging contacts radially outwards into firm contact with the walls of the bores so as to connect the two conductors together.

2,655,591
LIGHT PROJECTOR FOR AIRPORT LIGHTING
Philip B. Clark, Stroudsburg, Pa., assignor to McGraw Electric Company, Milwaukee, Wis., a corporation of Delaware
Application June 1, 1950, Serial No. 165,497
8 Claims. (Cl. 240—1.2)



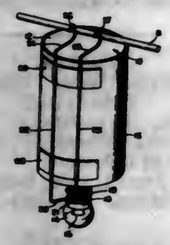
1. In a signal light projector comprising a housing having an annular opening and a light cutoff shield adjacent said opening at one side thereof, said shield having an aperture adjacent said opening for permitting a limited quantity of light radially of said opening; an annular lens in said opening having a bull's-eye portion encircled by annular refracting prisms concentric therewith, the axis of said bull's-eye and prisms disposed angularly relative to the geometric axis of said opening and the lens and directed toward a projected surface of said shield.

2,655,592
VEHICLE AUXILIARY LIGHT
Clarence A. Michel, Howard C. Mead, John H. Diedring, and Edward L. Barcus, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 12, 1948, Serial No. 32,654
2 Claims. (Cl. 240—8.18)



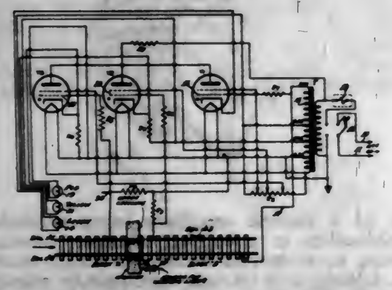
1. In a vehicle auxiliary lamp assembly the combination of a cupped member, means positioning an electrical connector within said member, a lamp unit having terminals in engagement with the terminals of said connector, said lamp unit and said member having a common axis, and a plate attached to one end of said member and substantially perpendicular to said axis, at least one edge of said plate being spaced a greater perpendicular distance from said axis than another edge of said plate, the peripheral edge of said lamp unit and an edge of said plate providing a support for said assembly whereby the angle of the lamp beam is adjusted when the assembly is supported by selected edges of said plate and the peripheral edge of the lamp unit.

2,655,593
LAMP CLIP FOR DRY CELLS
Milton O. Fredrickson, Los Angeles, Calif.
Application September 21, 1951, Serial No. 247,633
4 Claims. (Cl. 240—10.61)



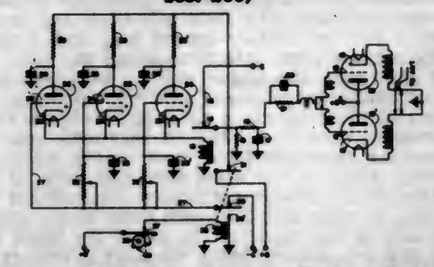
1. A device of the class described comprising a single length of wire bent to provide a pair of spaced parallel lengthwise extending members, the space between the members being less than the diameter of a dry cell, one end of each member being connected to the other by a loop, the plane of which is substantially at right angles to the length of the members forming a socket adapted to receive the base of an electric lamp, the axis of the loop being equidistant from the members so that when the members are both held in position against the cylindrical surface of a dry cell, the axis of the loop will coincide substantially with the axis of the dry cell thus maintaining the central contact of the lamp in line with the central terminal of the dry cell, the free ends of the members extending inwardly generally toward the axis of the loop and being adapted to be positioned beneath the bottom of a dry cell, the distance between the free ends and the loop being such that the central contact of the lamp will be pressed against the central terminal of the dry cell.

2,655,594
RAILWAY SIGNALING SYSTEM
George D. Hanchett, Jr., Millburn, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 25, 1947, Serial No. 782,687
4 Claims. (Cl. 246—34)



1. In combination, a transformer having a primary winding and a secondary winding, a plurality of signal elements, a corresponding number of gaseous conduction devices each having a cathode, an anode and a control electrode, the anodes of said devices being connected through a common impedance to one terminal of said primary winding, a point of common reference potential, the other end of said primary winding being connected to said point of common reference potential, a first tap on said secondary winding adjacent one end thereof connected to said point of common reference potential, the cathode of one of said devices being connected in series with its corresponding signal element to a second tap on said secondary winding intermediate the ends thereof, each cathode of the other of said devices being connected in series with a separate impedance to an individual tap on said secondary intermediate said second tap and said point of common reference potential, each of the other of said signal elements being connected in parallel with the separate impedance element associated with its corresponding gaseous conduction device, a connection from a tap on said secondary winding adjacent the other end thereof to the control electrode of said one device, the windings of said transformer being so poled and the voltages across said taps being so related that said one device is normally conducting and each of the other of said devices is normally non-conducting, and means for successively applying to each control electrode of the other of said devices a potential thereby causing each of said other devices to be successively made conducting and each other of said devices is rendered non-conducting, by reason of the lowered anode to cathode potential resulting from ionization of the conducting tube.

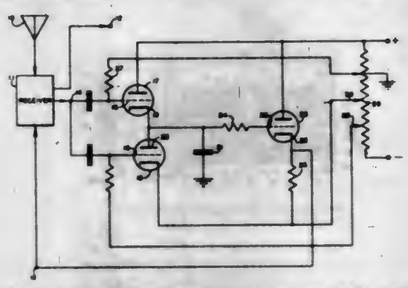
2,655,595
KEYING SYSTEM
Torrence H. Chambers, Washington, D. C.
Application August 9, 1945, Serial No. 609,910
5 Claims. (Cl. 250—17)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A keying system for a pulsed radio frequency transmitter comprising a relay operating a switch for alternately rendering said radio frequency transmitter operative and inoperative, a plurality of condensers each connected through a current-limiting resistor to a source of charging potential, a plurality of gas-filled discharge tubes for discharging said condensers through said relay at irregularly spaced times, means applying negative biasing voltage to said gas-filled discharge tubes until said discharging action is desired, means for removing said negative bias from said gas-filled discharge tubes in sequence, a second relay, and timer means for controlling the operation of said second relay to make and break the electrical circuit connections between said gas filled discharge tubes and said charging potential.

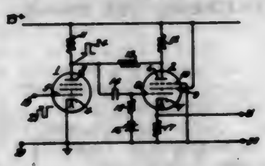
2,655,596
AUTOMATIC GAIN CONTROL CIRCUIT
Vernon L. Heeren, Waverly, Iowa
Application May 12, 1949, Serial No. 92,936
6 Claims. (Cl. 250—20)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. An automatic gain control circuit for a pulse energy receiver comprising a first vacuum tube circuit operatively coupled to an electrical energy storage device to supply said energy storage device with a finite amount of energy upon receipt of a pulse from a receiver connected to said circuit, a second vacuum tube circuit operatively coupled to said energy storage device to withdraw energy from said storage device, an automatic gain control line coupled to said storage device, the tube of said second circuit having a higher transconductance than the tube of said first circuit, biasing means to bias the grid of said tube



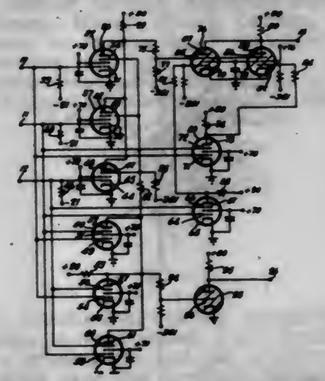
of higher transconductance negative with respect to the tube of said first circuit, whereby only the first vacuum tube circuit is operative when pulses below a certain predetermined amplitude are introduced into the gain control circuit and the second vacuum tube circuit is operative only when pulses received exceed said predetermined amplitude thereby producing a smooth change of voltage across the electrical energy storage device and a smoothly changing output signal from said automatic gain control line.

2,655,597
LIMITING AMPLIFIER
Graham J. Scoles, London, England, assignor to General Electric Company, a corporation of New York
Application January 30, 1948, Serial No. 5,355
In Great Britain February 24, 1947
7 Claims. (Cl. 250—27)



1. In combination, a pair of electron discharge amplifiers, each having a control electrode, an anode, and a cathode, a source of operating potential, the anodes of said amplifiers being connected to the positive terminal of said source through respective load resistors, and the cathodes of each of said amplifiers being connected to the negative terminal of said source, whereby current flows in each of said amplifiers to an extent dependent on the voltage between the control electrodes and cathode of the respective amplifiers, means to bias sufficiently the control electrode of one amplifier negatively with respect to the cathode thereof normally to prevent the flow of current in said amplifier, means to supply pulses between the control electrode and the cathode of the other amplifier of polarity to reduce current therein thereby to produce positive pulses on the anode thereof, means to supply said last positive pulses from said anode to the control electrode of said one amplifier to increase current therein to produce negative pulses on the anode of said one amplifier, and means to supply said negative pulses from the anode of said one amplifier to the control electrode thereof in opposition to the pulses supplied to said control electrode from the anode of said other amplifier.

2,655,598
SIGNAL PROCESSING APPARATUS
John Presper Eckert, Jr., Gladwyne, and John W. Mauchly, Ambler, Pa., assignors to Eckert-Mauchly Computer Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application October 21, 1950, Serial No. 191,404
4 Claims. (Cl. 250—27)



1. In combination; a first device having first second and third input connections adapted to receive stimuli and first and second output connections, said first output connection being energized upon the occurrence of stimuli singly on any one of said input connections, said second output connection being energized upon the concurrence of stimuli upon any two of said input connections, said first and second output connections being energized upon the concurrence of stimuli on each of said input connections; a second device having first, second and third input connections adapted to receive stimuli and first and second output connections, said first output connections being energized upon the occurrence of stimuli separately on any one of said input connections, said second output connections being energized upon the concurrence of stimuli on any two of said input connections, and said first and second output connections being energized upon the concurrence of stimuli on each of said input connections; and a connection linking said second output connection of said first device with one of said input connections to said second device.

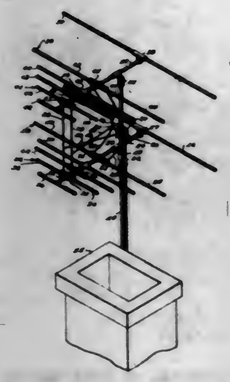
2,655,599
ALL BAND TELEVISION ANTENNA
Lewis H. Finneburgh, Jr., Cleveland Heights, Ohio
Application March 10, 1953, Serial No. 341,580
30 Claims. (Cl. 250—33)



1. An antenna comprising a plurality of radiating conductor elements of substantially equal resonant length disposed in longitudinally spaced relationship, means connecting said conductor elements for substantially in-phase operation as

a collinear array at one frequency, and means interposed in at least one of said conductor elements for connecting portions thereof for in-phase operation as a collinear array at a substantially higher frequency.

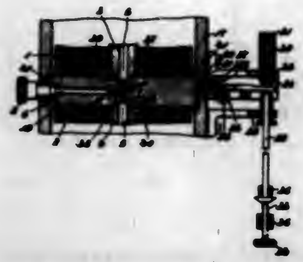
2,655,690
STACKED ANTENNA ARRAY FOR TELEVISION SIGNAL RECEPTION
Harold R. Hillison, Amboy, Ill.
Application August 15, 1950, Serial No. 179,593
1 Claim. (Cl. 250—33.57)



An antenna array comprising a mast adapted to be mounted in substantially vertical position, and antenna assemblies carried by said mast in vertically spaced apart relationship relative to each other, said antenna assemblies being substantially identical and coextensive and each comprising a crossarm mounted on said mast and disposed substantially perpendicular thereto, a first dipole mounted on said crossarm and disposed substantially perpendicular to said crossarm and said mast, a reflector longer than said first dipole mounted on said crossarm and disposed substantially parallel to said first dipole at a location spaced from one side of the latter, a first director shorter than said first dipole mounted on said crossarm substantially parallel to said first dipole and spaced from the other side of the latter, a second dipole shorter than said first director mounted on said crossarm parallel to said first director and spaced from the side of the latter remote from said first dipole, a second director shorter than said second dipole mounted on said crossarm parallel to said second dipole and spaced from the side of the latter remote from said first director, a terminal block mounted on said mast between said antenna assemblies, spaced apart terminals carried by said block, electrical conductors connecting the first dipoles of both assemblies to said terminals, Q bars interconnecting the second dipoles of both assemblies, and transversed conductors connecting said Q bars to said terminals.

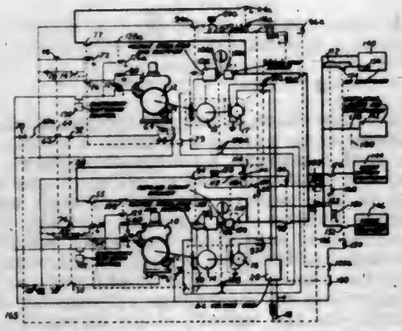
2,655,691
ELECTRON MICROSCOPE
Adrianus Verhoeff, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application March 24, 1950, Serial No. 151,596
In the Netherlands April 9, 1949
5 Claims. (Cl. 250—49.5)

1. In an electron microscope, an object chamber, an electron lens system arranged within said chamber comprising a pair of axially aligned tubular pole-pieces, a pair of axially aligned focussing coils, each of said coils surrounding one of said tubular pole-pieces, a disc interposed between the pole-pieces and having a central aperture therein, the surrounding surface portions of which interfit with corresponding surface portions of the tubular pole-pieces to form therewith a discharge path for an electron beam through said disc, a resilient sealing member connecting



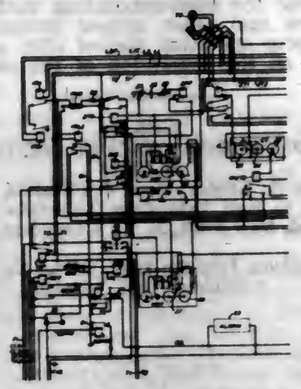
the adjoining surface portions of the disc and each pole-piece, means to move the disc in a plane perpendicular to the path of the electron beam, an object holder movable in a channel in the disc transverse to the path of the electron beam, valve closing means for sealing said channel upon withdrawal of the object holder, and a beam diaphragm in the central aperture of the disc between the object holder and one of the pole-pieces.

2,655,692
ELECTRICAL APPARATUS, INCLUDING PLURAL GENERATORS AND LOADS
Albert J. Kuhn, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application December 29, 1951, Serial No. 264,083
14 Claims. (Cl. 290—4)



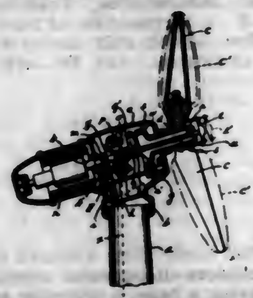
1. In combination, a first alternating current generator, a second alternating current generator, means for driving said first and said second alternating current generators, an alternating current power distributing system including a primary load and a secondary load, means for connecting said alternating current generators in parallel to said alternating current power system, and means responsive to failure of one of said generators to disconnect said secondary load from said power system.

2,655,693
POWER SUPPLY APPARATUS FOR ALTERNATELY SUPPLYING A LOAD
Vincent T. Callahan, Englewood, and Lloyd D. Fry, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 14, 1952, Serial No. 304,316
6 Claims. (Cl. 290—4)



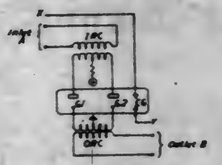
1. In an electrical generating system having two engine-driven generator units, a load circuit, a transfer switch for connecting either of said generators to said load circuit, a cam switch system having first and second pairs of normally open contacts successively closed during alternate time intervals, and first and second relay systems successively energized by the closures of said first and second pairs of contacts to respectively shut down one of said units, to start the other of said units and to energize said transfer switch to transfer the load circuit from the one of said generators to the other of said generators.

2,655,694
WIND-DRIVEN POWER PLANT WITH CENTRIFUGAL GOVERNOR
Ulrich Hütter, Kirchheim (Teck), Germany, assignor to Allgaier Werkzeugbau G. m. b. H., Uhingen, Wurttemberg, Germany
Application July 11, 1951, Serial No. 236,240
In Germany January 7, 1950
6 Claims. (Cl. 290—55)



1. A wind-driven power plant, comprising in combination, an elongated casing; rotary vane means arranged on one end of said elongated casing rotatably mounted thereon, said vane means including adjustable vanes; rotary electric generator means mounted on said casing; a transmission arranged in said casing and connecting said vane means and said electric generator means for driving said electric generator means at a rotary speed higher than the rotary speed of said vane means; rotatable centrifugal governor means arranged in said casing and driven by said electric generator means; and adjusting means operatively connecting said centrifugal governor means and said adjustable vanes for adjusting the position of said vanes in accordance with the variations of the speed of rotation of said governor means.

2,655,695
ALTERNATING CURRENT SWITCHING DEVICE
George Clifford Hartley, Frederick Harry Bray, and George Hubert Hough, London, England, assignors to International Standard Electric Corporation, New York, N. Y.
Application November 15, 1951, Serial No. 256,494
In Great Britain November 16, 1950
6 Claims. (Cl. 307—88)

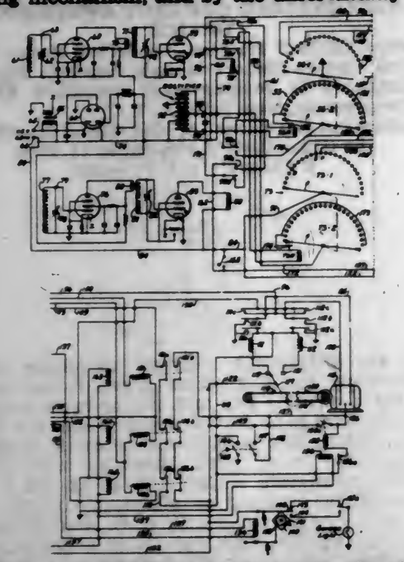


1. An alternating current switching device comprising, in combination, a gas discharge tube having a priming gap and two or more mutually independent gaps and in which discharge across said priming gap is sufficient to cause discharge across said other gaps, two-wire transmission circuits connected respectively to anodes and to the cathodes of a pair of said mutually independent gaps and provided with D. C. connections for maintaining the discharge via said mutually independent gaps when the priming gap discharge is removed, so that said mutually independent gaps will pass alternating current between said transmission circuits.

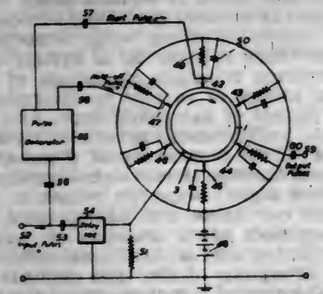
2,655,696
RECEIVING APPARATUS FOR CONTROLLING GARAGE DOORS AND LIGHTS
Cebern B. Trimble, Dayton, Ohio
Original application March 15, 1946, Serial No. 654,561, now Patent No. 2,553,888, dated July 3, 1951. Divided and this application March 17, 1951, Serial No. 216,229
12 Claims. (Cl. 307—40)

12. In a remote control system for controlling a garage-door-operating mechanism and a garage-lighting circuit in response to signal sequences sent from a vehicle, said signal sequences being made up selectively of two types of signals, one of said types of signals being formed by oscillations at one preselected frequency and the other of said types of signals being formed by oscillations at another preselected frequency, one of said signal sequences being a normal signal sequence which is made up of groups of various predetermined numbers of signals of said one type and groups of various predetermined numbers of signals of said other type, with the type of signals for successive groups of signals alternating until the normal signal sequence is completed, and another of said signal sequences being a modified signal sequence which is sent out when the car lights are lighted, said modified signal sequence being made up of said normal signal sequence and an additional predetermined number of signals of the type opposite the last type of the normal signal sequence, the combination of a receiving apparatus including means responsive to signals of said one type, including

means responsive to signals of said other type, said two means in the receiving apparatus being operated differentially by the signals of their respective types, said receiving apparatus also including means jointly controlled by the differentially operable means to initiate an operation of the garage-door-operating mechanism, and including a garage-light-controlling means jointly controlled by the initiating means, when operated to initiate an operation of the door-operating mechanism, and by the differentially operable means which responds to signals of the additional signals, if the proper predetermined number of signals has been received, to be operable when these conditions are fulfilled; and a three-way garage light circuit jointly controlled by a manually operated switch and by a switch controlled by the light-controlling means to either light or put out the garage lights, as required, under control of either the manually operable switch or the switch operated by the light-controlling means in response to signals sent out from the vehicle.



2,655,607
ELECTRIC DELAY DEVICE EMPLOYING SEMICONDUCTORS
Alec Harley Reeves, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application October 20, 1949, Serial No. 122,396
In Great Britain October 27, 1948
16 Claims. (Cl. 307—88)



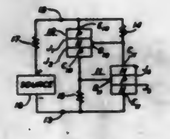
1. An electric pulse delay circuit comprising a semi-conducting material having a base electrode, and also in contact with its surface at least two point-contact electrodes, a plurality of trigger circuits, each trigger circuit including one of the point contact electrodes, means for applying an electric pulse to operate one trigger circuit, and means for deriving a delayed pulse from another trigger circuit, the arrangement being such that the operation of the first mentioned trigger circuit transmits a coupling pulse over the semi-conducting surface which influences said other trigger circuit to cause spontaneous operation thereof after a delay depending on the separation of the electrodes.

2,655,608
SEMICONDUCTOR CIRCUIT CONTROLLING DEVICE
Leopoldo B. Valdes, New Providence, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 22, 1952, Serial No. 300,181
7 Claims. (Cl. 307—88)



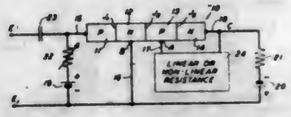
7. A circuit controlling device comprising a pair of terminals, a transistor including a semiconductive body having a pair of outer zones of one conductivity type and an intermediate zone of the opposite conductivity type defining a pair of junctions with said outer zones, each of said outer zones being connected to a respective one of said terminals, one of said junctions having a prescribed Zener voltage, an emitter connection to the end zone defining said one junction with said intermediate zone, and a resistor connected between said emitter connection and said last mentioned end zone, said resistor being between said last mentioned zone and the terminal connected thereto.

2,655,609
BISTABLE CIRCUITS, INCLUDING TRANSISTORS
William Shockley, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 22, 1952, Serial No. 300,220
13 Claims. (Cl. 307—88)



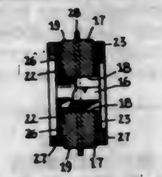
13. A circuit controlling element comprising a pair of transistors of opposite conductivity type and each having a base, a collector and an emitter, a pair of terminals, means connecting the base of each transistor to the collector of the other, a pair of diodes each connected between one of the emitters and a respective one of said terminals, each of said diodes having a preassigned Zener voltage and being poled in the reverse direction, and a pair of resistors each connected between the base of a respective transistor and the terminal of the respective diode remote from the emitter of the corresponding transistor.

2,655,610
SEMICONDUCTOR SIGNAL TRANSLATING DEVICE
Jewell J. Ebers, Whippany, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 22, 1952, Serial No. 300,235
17 Claims. (Cl. 307—88)



17. A transistor comprising an array of semiconductive elements defining a pair of PN junctions on opposite sides of a collector PN junction, means for applying a potential between the end elements of the array and of the polarity to bias said pair of junctions each in the forward direction and said collector junction in the reverse direction, means for applying a signal across one of said pairs of junctions, a load circuit connected across said collector junction and the other of said pair of junctions in series, and means for controlling the emitter current-current multiplication factor characteristic of the transistor comprising a non-linear resistance connected across said other junction.

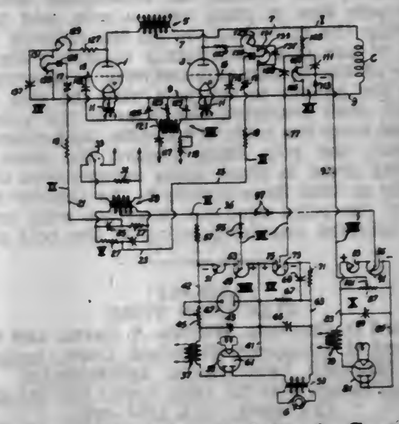
2,655,611
ALTERNATING CURRENT GENERATOR
Floyd A. Sherman, Birmingham, Mich., assignor to Whizzer Motor Company, Pontiac, Mich., a corporation of Delaware
Application January 13, 1951, Serial No. 205,927
3 Claims. (Cl. 310—42)



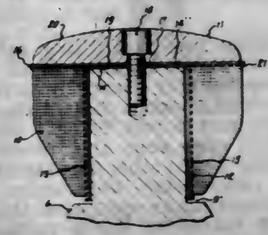
1. The method of making a rotor of the character described, said method comprising the steps of providing a central core, arranging poles in circumferentially-spaced relation and in abutment with said core, retaining said poles in said relation by means of a one-piece retaining ring embracing the radially-outermost faces of said poles and removable from said poles by axial movement from the poles, pouring a non-magnetic metal in the interstices between said poles and against the front and rear faces of the poles to permanently retain said poles in said relation, and removing said retaining ring by axial movement from the poles after said non-magnetic metal has solidified, the axial length of said retaining ring being very small in relation to the axial length of said pole faces, whereby ot facilitate removal of the retaining ring by said axial movement.

2,655,612
ELECTRONIC CONTROL FOR INDUCTIVE APPARATUS
Ralph L. Jaeschke, Kenosha, Wis., assignor to Dynamatic Corporation, Kenosha, Wis., a corporation of Delaware
Application December 29, 1951, Serial No. 264,201
11 Claims. (Cl. 310—93)

1. In a control system for an inductive load, a pair of grid-controlled gaseous-discharge power tubes connected to form a parallel rectifying circuit for exciting the inductive load, the power tubes having an A. C. plate supply, cathodes, and grid circuits normally controlling conduction of the power tubes, an inverter grid circuit for the power tubes comprising a peaking transformer of the saturable core type, the peaking transformer having a secondary connected through coupling capacitors to the control grids of the respective power tubes, and an A. C. voltage source connected to the primary of the peaking transformer adapted to provide across the secondary a firing signal that is relatively retarded with respect to the plate supply of the power tubes, said coupling capacitors being adapted to pass the peaked firing signal of the inverter grid circuit and block the firing signals of said grid circuits normally controlling conduction of the power tubes.



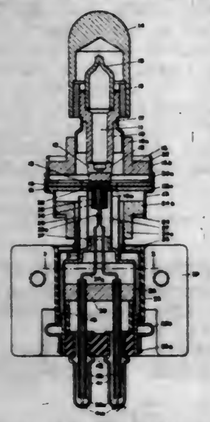
2,655,613
ROTOR FOR DYNAMOELECTRIC MACHINES
Theodore R. Wieseman, Milwaukee, Wis., assignor to The Louis Allis Company, Milwaukee, Wis., a corporation of Wisconsin
Application January 24, 1952, Serial No. 268,033
4 Claims. (Cl. 310—194)



1. In a dynamo-electric machine, a magnetically permeable rotor comprising: a hub portion and a plurality of angularly spaced arms projecting radially therefrom, each of said arms being rectangular in cross section and providing a pole for the rotor; a magnetically permeable pole shoe for each of said poles of a size and shape to overlie the radially outer face of its pole and to project beyond the edges thereof; a stiff sheet metal box-like bobbin for each pole, each of said bobbins having side and end walls defining a shell of a size to snugly but freely fit onto a pole and an end plate secured to one end of the shell to overlie the radially outer face of the pole when the bobbin is in place thereon, and the axial length of the shell being less than the

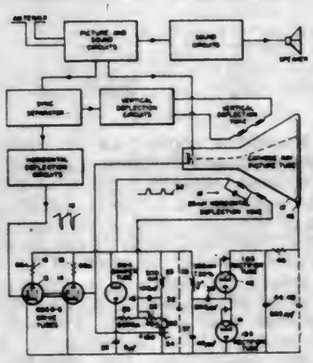
radial length of the poles so that when the bobbin is in place upon a pole with the end plate thereof bearing against the radially outer face of the pole the radially inner end of the shell is spaced from the roots of the pole; a winding on each bobbin with the loops thereof wound about the shell and one axial end of the winding lying in the plane of the end plate and the opposite end of the winding spaced from the adjacent end of the shell; and means for detachably securing each pole shoe in place upon a pole, said means drawing the pole shoe toward the radially outer face of the pole and tightly clamping the end plate of the bobbin therebetween to thereby secure the bobbin to the pole with the side walls of the shell overlying the sides of the pole but spaced from the roots of the pole, said means for drawing the pole shoes toward the poles and holding them in place being independent of the bobbin so that inaccuracies in the angular spacing of the poles need not interfere with correct and uniform angular spacing of the pole shoes.

2,655,614
ELECTRON TUBE
Howard D. Doolittle, William A. Zarth, and Raymond H. Rheaume, Stamford, Conn., assignors to Machlett Laboratories, Incorporated
Application May 25, 1950, Serial No. 164,228
13 Claims. (Cl. 313—249)



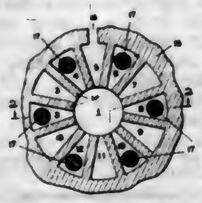
1. An electron tube comprising cathode, grid and anode electrodes mounted in an evacuated chamber, substantially coaxially arranged tubular conductors attached to said electrodes respectively, at least a pair of said tubular conductors having open ends of different diameter extending toward each other in substantially non-overlapping relationship, an annular dielectric member of substantially cylindrical shape having an outwardly extending flange portion, one of said pair of tubular conductors being sealed to the inside of said dielectric member at the end thereof remote from said flange portion and the other of said pair being sealed to the outside of said flange portion, a heater for said cathode electrode and a pair of leads therefor extending through the cathode tubular conductor to the exterior of said evacuated chamber, and a pair of metallic support tubes surrounding a portion of said leads respectively and sealed toward the inner ends thereof in a wall of said evacuated chamber, said tubes being sealed toward the outer ends thereof to respective leads, the portions of said leads between the heater and the seals at the outer ends of said tube being unrestrained against limited movement.

2,655,615
TELEVISION CIRCUIT
Leon Seldin, River Edge, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J., a corporation of Delaware
Application June 22, 1950, Serial No. 169,643
6 Claims. (Cl. 315—27)



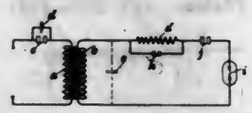
1. In a television receiver, a cathode-ray picture tube comprising an acceleration electrode, a cathode-ray deflection means, a source of repetitive deflection signals connected to said deflection means to deflect the cathode-ray beam in said tube, inductance and a capacitance connected in series and connected to receive energy from said source of deflection signals, said combination of inductance and capacitance being tuned to be resonated by said repetitive deflection signals, and rectifier means connected between said acceleration electrode and the junction of said series-connected inductance and capacitance, whereby said electrode receives energy derived through said rectifier means from said series-connected inductance and capacitance.

2,655,616
MAGNETRON
Bernard Vincent Rollin, Oxford, England, assignor to English Electric Valve Company, Limited, a corporation of Great Britain and Northern Ireland
Application August 5, 1947, Serial No. 766,255
In Great Britain May 24, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires May 24, 1964
6 Claims. (Cl. 315—40)



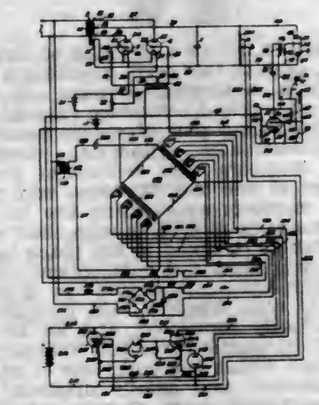
1. A multi-resonator magnetron anode member having a central axially extending opening and a plurality of electro-magnetically coupled cavity resonators disposed about and opening into said central opening, each of said resonators having an axial length substantially equal to that of said central opening, and dielectric means in one of said resonators in excess of any dielectric material in another of said resonators to thereby effect an irregularity between said resonators.

2,655,617
ELECTRIC SPARK IGNITION APPARATUS
John Andrew Laird, Coventry, England, assignor to Joseph Lucas Limited, Birmingham, England
Application July 16, 1951, Serial No. 236,966
In Great Britain July 20, 1950
7 Claims. (Cl. 315—100)



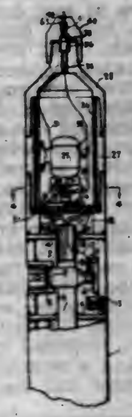
1. Electric spark ignition apparatus comprising, in combination, charging means having a circuit connected to an ignition gap adapted to break down upon the initial charging impulse of said means, a resistance in series with said circuit, capacity included in the circuit adapted to store energy therein, and a control gap connected in parallel with said resistance and adapted to break down at a higher potential than the breakdown potential of the ignition gap when the potential across the resistance rises to an appropriate value due to flow of current in the circuit following the initial breakdown of the ignition gap, whereby the stored energy in the circuit is released and results in a relatively large discharge across the ignition gap.

2,655,618
ELECTRONIC FLASH DEVICE
Harry L. Parker, St. Albans, N. Y., assignor to American Speedlight Corporation, New York, N. Y.
Application March 15, 1951, Serial No. 215,727
11 Claims. (Cl. 315—205)



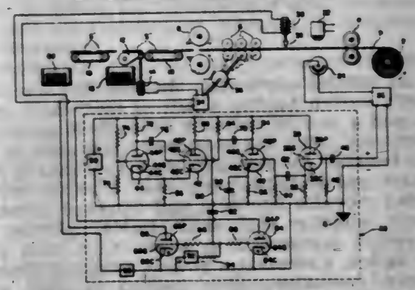
1. An electronic flash device comprising a flash tube, a capacitor to store energy to flash the tube, a grid-controlled rectifier for charging the capacitor, control means for the rectifier grid including a saturable reactor, a direct current winding for the saturable reactor, a source of direct current, and control means to vary the direct current through the direct current winding, including a feedback circuit obtaining information from across the storage capacitor, whereby the charging rate of the storage capacitor and its maximum voltage is limited to a predetermined value.

2,655,619
SELECTIVE CHARGE-FIRING EQUIPMENT
William E. Neal, Houston, Tex., assignor, by decree of court, of one-half to Cherrietta Dover
Application October 25, 1948, Serial No. 56,268
2 Claims. (Cl. 317—80)



1. The combination of a means for selectively firing charges from a remote point comprising an insulative disk, contactors in said disk having grounded connections, other connections completing charge firing circuits from another plurality of contactors, a firing arm to contact the several contactors in succession, an electrical actuator for said firing arm, a brush in wiping engagement with said firing arm, a conductor joined to said brush and said electrical actuator for extension to said point, and an electromotive circuit joined to said conductor at said point and including therein an ammeter and a switch so that upon closing the switch the ammeter will visually differentiate the movement of the electrically actuated firing arm over the grounded contactors and over the charge-firing contactors.

2,655,620
CONTROL UNIT FOR PINHOLE DETECTORS
William E. Coleman, Pleasant Hills Borough, Pa., assignor to United States Steel Corporation, a corporation of New Jersey
Application February 27, 1952, Serial No. 273,697
14 Claims. (Cl. 317—123)



1. A control unit for a pin hole detector having detecting means for generating a voltage impulse when a pin hole occurs in a sheet, a timer and means responsive to actuation of the timer for classifying the sheets; said control unit comprising a pair of vacuum tubes each having a grid, cathode and plate, means including a capacitor for connecting the grid of the first of said tubes to the plate of the second of said tubes,

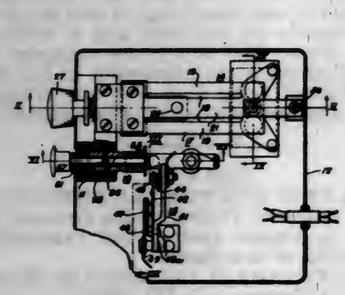
a D. C. power source, a direct current connection between the positive side of said power source and the grid of the second tube, a direct current connection between the negative side of said power source and the grid of the second tube, a resistor in each of said last named connections providing a voltage divider, a connection between the cathodes of said tubes, a connection between said last named connection and the negative side of said D. C. power source, a resistor in said last named connection, connections between the positive terminal of said power source and the plates of each of said tubes, a resistor in each of the last named connections, a direct current connection between the positive terminal of said power source and the grid of the first tube, a resistor in the last named connection, means for connecting the detecting means to one of said grids, a grid controlled gas rectifier tube having a grid, cathode, and plate, means including a capacitor for connecting the grid of said gas tube to the plate of one of the pair of tubes, an A. C. power source having one terminal connected to the cathode of said gas tube and the other terminal connected to one side of the timer, and a connection between the other side of the timer and the plate of the gas tube.

2,655,621

CONTROL APPARATUS

Paul R. Lee, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 15, 1949, Serial No. 121,555
2 Claims. (Cl. 317—132)



1. In control apparatus, the combination of a primary switch having a pair of stationary contacts and a pair of movable contacts engageable, respectively, with the stationary contacts, a bimetal member for engaging and disengaging said movable and stationary contacts, a heater bridging said movable contacts and disposed in heat-transfer relation with said bimetal member, a line switch connected in series with said primary switch, a secondary switch, a second bimetal member, operative, when heated to open said secondary switch but ineffective when ccoled to close the secondary switch, a heater connected in series with the secondary switch for heating said second bimetal member, said serially connected heater and secondary switch being connected in shunt across the stationary contacts of said primary switch and means responsive to movement of said line switch to its open position for closing said secondary switch.

2,655,622

MEANS FOR MOUNTING MAGNETS OR THE LIKE WITHIN SWITCH CASINGS

Ernst Besag, Streetly, and Thomas D. G. Wintle, Birmingham, England, assignors to J. A. Crabtree & Co. Limited, Walsall, England, a British company

Application January 31, 1949, Serial No. 73,834
In Great Britain June 9, 1948
4 Claims. (Cl. 317—195)



1. Means for mounting a magnet within the casing of an electromagnetic switch, comprising a magnet having axially extending projections at the opposite ends thereof, each projection being of different external configuration, a substantially U-shaped bracket including side arms having apertures of different configuration corresponding, respectively, to the configurations of said projections, each of said apertures receiving therein the projection of corresponding configuration whereby the magnet is supported between said side arms, the difference in configuration of said projections with respect to said apertures insuring correct mounting of said magnet in said bracket, and means for securing the bracket to the casing of said switch.

2,655,623

ELECTRICAL TRANSFORMER

William N. Parker, Lancaster, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application March 11, 1950, Serial No. 149,044
1 Claim. (Cl. 317—210)



A transformer having a plurality of ferromagnetic cores, each of said cores providing a closed magnetic path, a toroidal primary coil wound on each of said cores, a secondary for said transformer comprising a pair of spaced apart, concentric, substantially cylindrical, electrically conductive members, said cylindrical members being joined at one end, the open end of said cylindrical members constituting the terminals for said secondary, said cores with their associated coils being contained in the space between said cylindrical members, independent external terminals connected to the windings of each of said primary coils whereby said primary coils may be variously connected, and an auxiliary annular ferromagnetic core, said auxiliary core being disposed within the outer one of said cylindrical members and axially displaced from said aforementioned cores, thereby introducing a reactance to limit exceedingly high starting currents in said secondary.

2,655,624

MULTIELECTRODE SEMICONDUCTOR CRYSTAL ELEMENT

Heinrich Welker, Vaucresson, France, assignor to Societe Anonyme dite: Compagnie des Freins & Signaux Westinghouse, Paris, France

Application January 18, 1951, Serial No. 206,536
In France June 28, 1950
15 Claims. (Cl. 317—235)

1. Semi-conducting device comprising an elongated solid semi-conductor having at least partially a surface of parallel generatrices and a cross-section perpendicular to said generatrices, including at least one concave portion which forms with an opposite portion of said cross-section, a contraction which gradually enlarges when proceeding from one side of the elongated body to the other; and at least two surface electrodes applied to said sides.

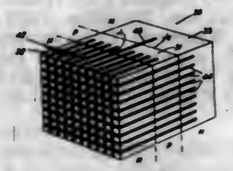


2,655,625

SEMICONDUCTOR CIRCUIT ELEMENT

Everett T. Burton, Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application April 26, 1952, Serial No. 284,567
10 Claims. (Cl. 317—235)



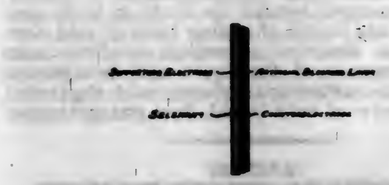
1. A circuit element comprising a body of semiconductive material including a zone of one conductivity type between and forming junctions with a pair of zones of the opposite conductivity type, and means dividing said body into a plurality of diodes associated in accordance with a preassigned circuit pattern, said means comprising a plurality of slots each of which extends through one of said pair of zones and across at least one of said junctions.

2,655,626

SELENIUM RECTIFIER

Rudolph J. Cepon, North Chicago, Ill., assignor to Fansteel Metallurgical Corporation, North Chicago, Ill., a corporation of New York

Application July 11, 1949, Serial No. 104,123
19 Claims. (Cl. 317—241)



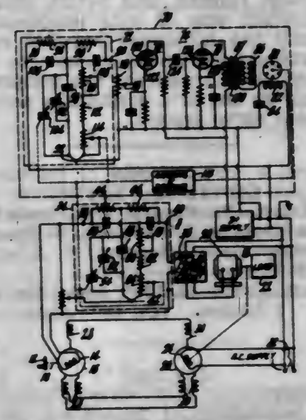
1. The method of producing selenium rectifier plates which comprises providing a supporting electrode with a layer of gray, crystalline selenium, wetting the surface of the selenium layer with a solution of a permanganate salt, permitting the solution of the permanganate salt to react with the selenium surface and applying a counterelectrode over the treated surface.

2,655,627

ELECTRIC MOTOR TYPE OF SERVO MECHANISM FOR FILTER TUNING

John E. McWade, Havertown, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application December 29, 1950, Serial No. 203,280
12 Claims. (Cl. 318—28)



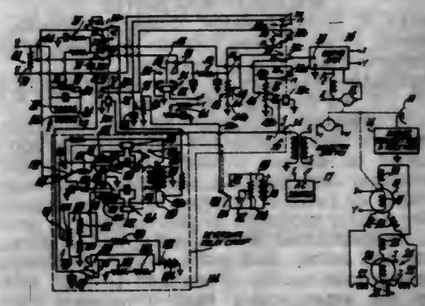
1. In combination with a filter circuit having a movable element and selective at a frequency determined by the position of said element, an auxiliary servo mechanism comprising a second filter circuit having a movable element and selective at a frequency determined by the position of said second filter circuit element, means to apply a voltage of indeterminate frequency to said second filter circuit, a motor mechanically connected to said movable elements, said motor being connected to said second filter circuit and to said voltage applying means to be driven in response to a difference between said second circuit selective frequency and the frequency of the applied voltage, thereby driving said second circuit element to make said second circuit selective frequency equal to that of said applied voltage, and also to determine the said first circuit selective frequency.

2,655,628

SCAN APPARATUS

John H. Pratt, La Crescenta, Calif., assignor to Radio Corporation of America, a corporation of Delaware

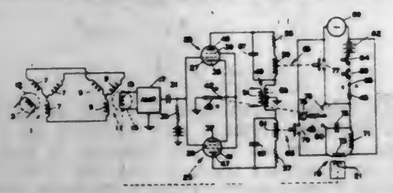
Application June 11, 1951, Serial No. 230,957
10 Claims. (Cl. 318—28)



1. A servo system comprising a servo amplifier having an input circuit and having an output circuit responsive to the sense and amplitude of voltage applied to said input circuit, a motor connected to receive the amplifier output and re-

sponsive thereto, an object driven by said motor, a position control element, means to derive a position control voltage having a sense and amplitude corresponding to the lack of positional correspondence between said object and said control element, means to derive a speed voltage having sense and amplitude corresponding to the speed of said object, means supplying a speed control voltage, and switch means selectively applying one of said positional control voltage and the difference between said speed voltage and speed control voltage to said amplifier input circuit whereby the system operates accordingly as one of a positioning servo system and a speed servo system.

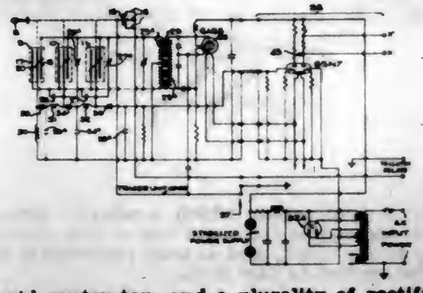
2,655,629
CONTROL SYSTEM
John W. Lauricella, Passaic, and Frank E. Hagen, Cliffside Park, N. J., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application June 28, 1949, Serial No. 101,818
2 Claims. (Cl. 318—212)



1. In combination, a motor having a pair of field windings connected in parallel with one another and in series with a power source, a phasing condenser connected across said windings, a first relay having contacts connected in series with one of said field windings and with the power source, a second relay having contacts connected in series with said other field winding and with the power source, a phase conscious power amplifier including a pair of thyratron gas tubes responsive to error signals and adapted to energize said relays one at a time for operation of said motor in one direction or another, and an anti-hunt circuit including a direct power source connected in series with one of the field windings, said relays having normally closed contacts connected in series with said one field winding and said direct power source and adapted to open when said relays are energized.

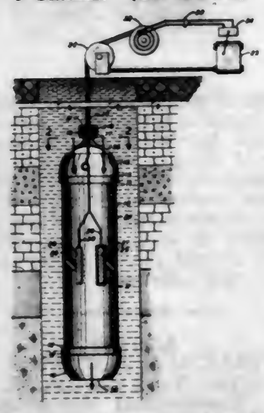
2,655,630
ELECTRONIC CONTROL FOR CONTOUR MILLING MACHINES
George F. Kelk, Leaside, Ontario, Canada, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada, a corporation
Application January 29, 1949, Serial No. 73,567
5 Claims. (Cl. 321—16)

1. A pressure responsive device comprising a housing, a stylus resiliently mounted thereon and adapted to deflect through limited ranges in orthogonal directions in response to pressure, a plurality of pairs of opposed insulated capacitive plates rigidly mounted in said housing in orthogonal dispositions, a center-tapped inductance connected across said pairs of plates in parallel, an electronic oscillator coupled to said inductance for establishing high frequency electric fields between opposed plates in said pairs, a plurality of intermediate capacitive plates secured to said stylus and medially disposed between said opposed plates of respective pairs along planes electrically neutral with respect to said center-tap, deflection of said stylus in any of said orthogonal directions causing movement of corresponding ones of said intermediate plates out of their respective neutral planes and the induction of high frequency voltages thereon with respect



to said center-tap, and a plurality of rectifying means connected between said intermediate plates and said center-tap for providing unidirectional control voltages proportional to said induced high frequency voltages for each of said orthogonal directions.

2,655,631
METHOD AND APPARATUS FOR DETECTING FLUID MOVEMENT IN WELL BORES
John E. Walstrom, Danville, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware
Application April 28, 1951, Serial No. 223,516
9 Claims. (Cl. 324—3)

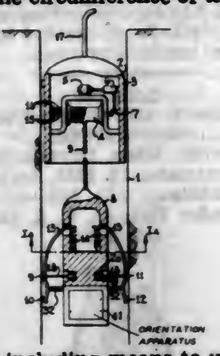


1. A method for determining a characteristic of liquid flow comprising placing the surface of a first electrode in physical and electrical contact with a flowing liquid, placing a porous-insulator-covered second electrode in ionic contact with said liquid, shielding both of said electrodes from electrical potentials resulting from the environment of the liquid and determining the potential difference between said electrodes, as a measure of said liquid flow characteristic.

2,655,632
ELECTRICAL RESISTIVITY DIP METER
Eger V. Murphree, Summit, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application May 12, 1951, Serial No. 226,039
10 Claims. (Cl. 324—10)

1. A dip and strike determining apparatus for logging of bore hole, comprising in combination a housing carrying a current electrode supported

in said bore hole, a casing positioned below said housing means within said housing adapted to vary the position of the said casing below said housing, said casing being provided with at least three caliper arms substantially spaced from each other about the circumference of the casing, said



caliper arms including means to urge them outwardly of the casing, a pair of electrodes positioned on each of said calipers, and independent electrical circuit connections between each of said three pairs of electrodes and recording apparatus at the surface of the earth.

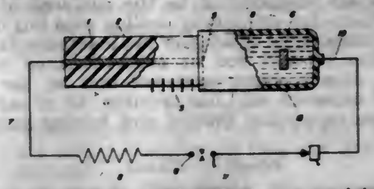
2,655,633
APPARATUS FOR MEASURING PIPE IN OR OUT OF HOLES
Burt S. Miner, Whittier, and Frank J. Lopker, Los Angeles, Calif., assignors to Regan Forge & Engineering Co., San Pedro, Calif., a corporation of California
Application May 7, 1951, Serial No. 224,984
4 Claims. (Cl. 324—34)



1. Apparatus for measuring moving pipe and the like including an electronic recorder to place a magnetic impression on said pipe as it passes, means to impress a pulse signal on said recorder, a pair of pick-up means located at predetermined distances on opposite sides of said recorder, individual means connecting each of said pick-up means with said recorder and pulse signal means for controlling said recorder from said pick-up means to cause placing of magnetic impressions, means to count the impressions picked up by each of said pick-up means and a pair of erasing means on opposite sides of said recorder and beyond said pick-up means to erase magnetic impressions which have actuated said pick-up means and said recorder.

2,655,634
ELAPSED TIME INDICATOR
Leonard J. Kreko, Shaker Heights, Ohio, assignor to Jack & Heints, Inc., Cleveland, Ohio, a corporation of Delaware
Application May 19, 1952, Serial No. 288,741
4 Claims. (Cl. 324—68)

1. In an electrical unit for measuring and indicating the elapsed time during which a fixed voltage has been applied to said unit, a transparent cylinder a solid electrode embedded therein, an electrolytic cell coaxially rigid with said cylinder, the electrolytic contents of which are engaged with one end of said electrode, a collector embedded in said electrolytic cell, a pair of terminals, one having a lead to the other end of said electrode, and the other terminal having a



lead connected to said collector, a resistance in the lead between one terminal and said electrode, said cylinder having a graduated scale to indicate the amount of said electrode being deposited upon said collector when voltage is applied to said terminals and integrated in units of time elapse during which said voltage has been applied to said terminals.

2,655,635
TRANSMISSION LINE TERMINATION
Oakley M. Woodward, Jr., Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 21, 1948, Serial No. 66,497
9 Claims. (Cl. 333—22)

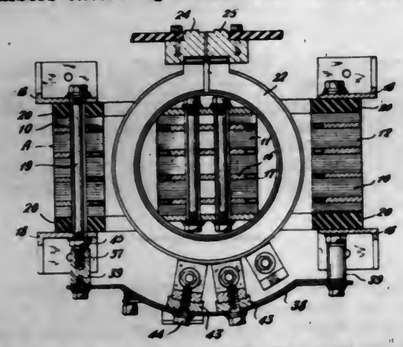


1. A termination for a first transmission line comprising a first portion having inner and outer conductors terminated for connection to said line, a second portion having an innermost conductor continued from said first portion inner conductor and having a sleeve surrounding said second portion innermost conductor and short-circuited thereto at a point distant from said first portion, said second portion having an outermost conductor extended from said first portion outer conductor, said sleeve being surrounded by said outermost conductor and short-circuited thereto at a point distant from said first portion, said second portion thereby comprising serially connected short-circuited inner and outer transmission lines each with inner and outer conductors, the said sleeve being the outer conductor of said inner line and the inner conductor of said outer line, one of said short-circuited transmission lines having an element in capacitive relationship between the conductors thereof and having a lossy material distributed along the length of said one transmission line between the conductors thereof, said short-circuited lines having cancelling reactances.

2,655,636
VARIABLE RATIO TRANSFORMER
Berthold H. Fliske, Cleveland, Ohio, assignor to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio
Application October 6, 1950, Serial No. 188,784
2 Claims. (Cl. 336—138)

1. A variable ratio transformer comprising a core, including a center leg and a pair of side legs

in spaced parallel relationship to and one on each side of said center leg; a helical coil formed of a heavy hollow conductor about said center leg; means for circulating a cooling medium through the hollow of said conductor; a bus member of heavy, rigid, electrically-conductive material extending between said side legs and insulatedly mounted thereon in fixed, spaced, relatively-close relationship to the surfaces of said coil; means for artificially cooling said bus member; a plurality of conductor lug members fixed to the edges of said coil at predetermined points spaced axially along said coil and on the side thereof adjacent said bus member, all of said lug members extending toward and having surfaces



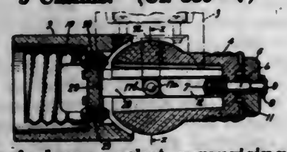
uniformly close spaced from the surface of said bus member facing said coil, said bus member having a plurality of openings, one for each lug member aligned with an opening in the respective lug member; and a conductor member having a thickness generally corresponding to the spacing between the lug and bus members adapted to be selectively positioned between one of said lug members and said bus members, said conductor member having an opening adapted to be aligned with said lug and bus member openings and means extending through said openings for holding the surfaces of said bus and conductor member and said conductor and lug member in electrically-conducting engagement.

2,655,637

ANGLE SOCKET FOR ELECTRIC LAMPS

Ronald G. Godfrey, Southport, and Frank J. Krajcik, Bridgeport, Conn., assignors to General Electric Company, a corporation of New York

Application December 28, 1951, Serial No. 263,753
5 Claims. (Cl. 339—7)



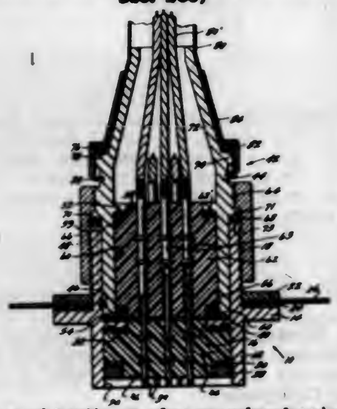
1. An angle lamp socket comprising an upper hollow socket element formed from insulating material and having an end wall, a button of insulating material positioned against said end wall, means forming a contact element having a flange positioned between the button and the said end wall, means forming a contact element comprising a bolt which extends axially through openings in said button and end wall, a spring which engages the bolt and said end wall for yieldingly holding together said socket element and button with said flange gripped between them, a conducting arm in the hollow socket element having an end which slidably engages said flange, a conducting arm in the hollow socket element having an end pivotally connected to said bolt, whereby when said button, bolt and first named contact element are held stationary said upper socket element and conducting arms may be turned as a unit about said bolt as an axis, and a lower socket element having conducting arms, the ends of which are pivotally connected to the ends of said first named conducting arms.

2,655,638

WATERPROOF AND PRESSUREPROOF CONNECTOR

Harry W. Allen, Dayton, Ohio

Application September 19, 1951, Serial No. 247,353
2 Claims. (Cl. 339—28)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In combination a plug member having an internal flange and spaced external flanges, a receptacle member having an internal flange and an external flange, said receptacle member being disposed concentrically with said plug member, one end thereof extending to adjacent one of said external flanges on the plug member and having a gasket sealingly interposed therebetween, the end of said plug member within the receptacle being spaced from the receptacle internal flange member and having a gasket sealingly interposed therebetween, a molded insert having contact pins within the receptacle, a gasket sealingly interposed between the molded insert and the receptacle internal flange, a molded insert within said plug member having sockets therein aligned with the contact pins, and means sealingly interposed between the plug insert and the plug internal flange, a waterproof, pressure resistant sheathing enclosing the other end of the plug, sealingly engaged with the other of said external flanges on the plug member and extending out from said plug member, and cable means having its individual wires connected to the sockets in the plug insert and extending coaxially within said sheathing and completely enclosed thereby.

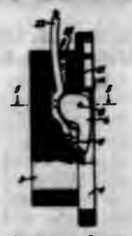
2,655,639

ELECTRICAL CONNECTOR WITH INSULATION PIERCING MEANS CONTACTING THE CONDUCTORS OF ELECTRIC CORDS

George B. Benander, Oaklawn, R. I., and Gustaf R. Lawson, Abington, Mass., assignors to General Electric Company, a corporation of New York

Application December 29, 1951, Serial No. 264,068
1 Claim. (Cl. 339—99)

A flat tap comprising an upper housing portion having top, side and end walls and an open bottom, said top wall having pairs of openings to receive the blades of an attachment cap and one of said end walls having an open-ended notch which forms a cord inlet passageway, walls projecting from the inner face of the top wall which define two grooves, one on each side of the upper housing portion, which extend longitudinally of such housing portion from one end wall to the other, and a prong cavity and a gripping passageway with which said end wall notch connects, a strip contact in each groove having resilient contact portions which are in alignment with said pairs of openings and prongs having pointed ends positioned in said prong



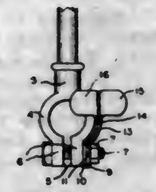
cavity, a flat base fastened over the open bottom of said upper portion which closes said notch and has a longitudinally extending opening in line with said prong cavity, a pivot pin held between the flat base and the upper housing portion which extends across said longitudinally extending opening, an impaling cam pivotally mounted in said opening on the pin, a wall forming a shoulder on the base which is located in the outer end of said notch for locating the base on the upper housing portion and cooperating with the notch to form a conductor inlet opening, and a flexible insulating strip which extends longitudinally across said prong cavity beneath said cam and at one end abuts against said shoulder.

2,655,640

BATTERY TERMINAL CONNECTOR

Hjalmer Lundquist, Duluth, Minn.

Application July 17, 1952, Serial No. 299,423
1 Claim. (Cl. 339—229)



In a battery terminal connector having a split ring to surround a battery post, a pair of flanges extending from said post engaging ring in substantial alinement with each other, and a clamping bolt extending through said flanges with a nut on one end thereof: means to force said flanges towards each other to provide a grip for said post engaging ring on said post consisting of a pair of clamping units carried between said nut and the adjacent one of said flanges, each of said units having an annular split ring of spring material surrounding said bolt, the adjacent ends of each of said spring rings being biased and disposed in opposite directions to each other, said splits being similar to each other so that said rings may lie in close abutting relationship when said splits are together and a minimum of space is occupied by said rings between said nut and its adjacent flange, a stem extending from each of said spring rings to provide holding and operating means to control the rotation of each of said spring rings relative to said bolt, and one of said spring rings being rotatable one-half turn on said bolt to bring the splits in said spring rings into diametrically opposed relation to each other—whereby a maximum space is tended to be occupied by said rings between said nut and its adjacent flange to cause clamping pressure to be exerted to said flanges by the spring qualities of said rings to hold said post engaging ring firmly on a battery post.

2,655,641

ELECTRICAL CONNECTOR HAVING A MERCURY AMALGAM COATING ON ITS INNER SURFACE

Annis G. Asaff, Watertown, Mass., assignor to Aircraft-Marine Products Inc., Harrisburg, Pa.

Application October 29, 1948, Serial No. 57,249
5 Claims. (Cl. 339—275)



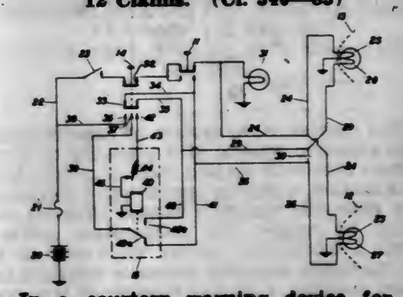
1. An electrical terminal having a ferrule portion adapted to be crimped into engagement with the end of a wire conductor, the ferrule portion of said connector being formed of a metal and having an exposed solid surface film consisting essentially of a stratum of amalgam, said amalgam being solid and being further characterized by the presence of a metal having a higher affinity for mercury than the metal of the connector.

2,655,642

COURTESY WARNING DEVICE FOR MOTOR VEHICLES

Robert J. Ayres, Los Angeles, and Donald G. Gumpertz, North Hollywood, Calif.; said Gumpertz assignor to said Ayres

Application June 26, 1950, Serial No. 170,328
12 Claims. (Cl. 340—83)



1. In a courtesy warning device for motor vehicles, the combination of: a pair of spaced and forwardly directed lamps; a source of electric power for energizing said lamps; circuits for connecting said source to each of said lamps; control means in said circuits for connecting said source alternately and repeatedly to said lamps in response to actuation of said control means; and means for actuating said control means.

2,655,643

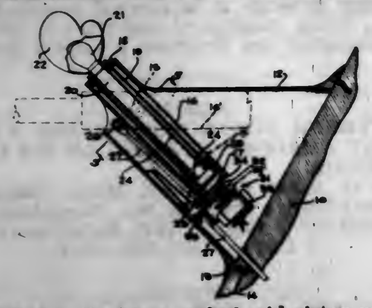
SIGNAL FOR VEHICLES

Frederick J. Markle, Tujunga, Calif.

Application October 17, 1952, Serial No. 315,360
6 Claims. (Cl. 340—136)

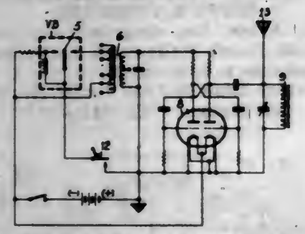
1. In a signal of the character described: an outer barrel; means for pivotally supporting said

barrel on the signalling side of a vehicle so that it may swing between a substantially horizontal position and a sloping position; an inner piston means swingable in said barrel between extended and retracted position; valve means arranged to selectively alternately connect the interior of said barrel to a source of fluid pressure and a source of suction so that either pressure or suction may



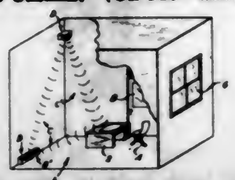
be applied to the inner end of said piston member to extend or retract the same; electromagnetic means for operating said valve means; and circuit means for connecting said electromagnetic means with a source of electrical current, said circuit means having selectively operable switch means therein for controlling the flow of current through said electromagnetic means to control the operation of said valve means.

2,655,644
REMOTE-CONTROL SYSTEM
Frank X. Rees, Chili, N. Y.
Application November 12, 1952, Serial No. 320,641
2 Claims. (Cl. 340—163)



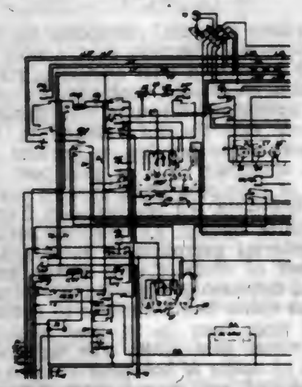
1. In a carrier wave system of communication for the selective control of a plurality of devices at a fixed receiving station from a mobile transmitting station, a mobile carrier wave transmitter having manually operable means effective when actuated to render the transmitter active to transmit a modulated carrier wave only so long as the manually operable means is retained in its actuated position, a carrier receiver at the receiving station having a normally inactive stepping switch effective when initiated to be self-propelled through a complete cycle of operation, said stepping switch having a step for each device to be governed from the mobile station, said receiver being effective to initiate said stepping switch upon receiving a modulated carrier wave transmitted by said mobile transmitter, a multiple aspect signal at said receiving station having a distinctive aspect for each step of said stepping switch, said signal being disposed within view of an operator of said mobile transmitter, circuit means including contacts of said stepping switch governing the energization of said signal to display its respective aspect successively as the stepping progresses, circuit means for actuating a device associated with any step only in response to the cessation of the reception of modulated carrier waves from said mobile transmitter during that step, whereby a device having its control associated with any particular step is operated during a cycle of operation of the switch only provided that the operator of the mobile transmitter restores his manually operable means rendering his transmitter effective during the associated step.

2,655,645
METHOD AND APPARATUS FOR DETECTING MOTION IN A CONFINED SPACE
Samuel M. Bagno, Astoria, N. Y., assignor to Alertronic Corporation, a corporation of New York
Application September 26, 1947, Serial No. 776,368
25 Claims. (Cl. 340—227)



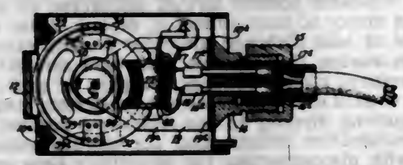
1. The method of indicating motion within an enclosure which comprises: providing a source of energy of a given high frequency; radiating said energy into a room to fill substantially all parts of said room with said energy; providing within said room a receiver for receiving said energy; orienting said source and said receiver with respect to each other and with respect to the walls of said room so that said receiver receives from a multitude of directions energy which has been reflected from walls and objects in the room, said received energy including a substantial component of energy which has been reflected a plurality of times whereby motion of a reflecting object within said room causes small frequency deviations of a portion only of said received energy; detecting frequency changes in said portion of said received energy; and indicating motion in accordance with said detected frequency changes.

2,655,646
SUPERVISORY ALARM SYSTEM
Vincent T. Callahan, Englewood, and Lloyd D. Fry, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 14, 1952, Serial No. 304,317
5 Claims. (Cl. 340—253)



5. In combination, a first and a second current supply source for alternately supplying current to a common load, a third current source, a first, a second, a third, a fourth and a fifth relay each having a winding, one of said first and second relays having a pair of contacts which are closed when said relay is energized, the other said first and second relays having a pair of contacts which are open when said relay is energized, a current path comprising an auxiliary load, means including circuit interrupting means for connecting said current path to said first current source, means for connecting the winding of said first relay across said first current source, means for connecting the winding of said second relay across said current path, means comprising the contacts of said first and second relays for connecting the winding of said third relay to said third current source, an alarm circuit, means responsive to the energization of said third relay for controlling the energization of said alarm circuit, said fourth and fifth relays each having a pair of contacts which are open when the relay is energized, means for connecting the winding of said fourth relay across said first current source, means for connecting the winding of said fifth relay across said second current source and means comprising the contacts of said fourth and fifth relays for connecting the winding of said third relay to said third current source.

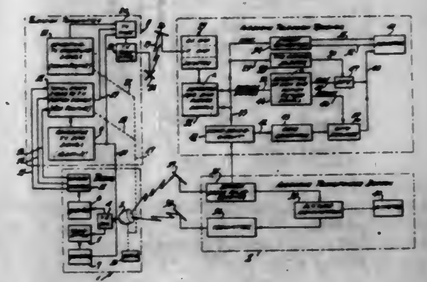
2,655,647
POSITION INDICATOR
George Petersen, Jr., St. Davids, Pa., assignor to Riverside Metal Company, Riverside, N. J., a corporation of New Jersey
Application October 19, 1951, Serial No. 252,157
5 Claims. (Cl. 340—378)



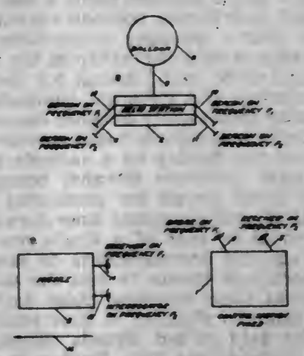
1. A unitary electromagnetically operated indicating device comprising a frame stamped from non-magnetic sheet metal and having parallel arms, a solenoid coil mounted on the inner surface of each arm in opposite positions with their cores in parallel, a pivoted indicator and armature unit rotatably mounted adjacent the solenoids about an axis parallel thereto and comprising a rotary disc member of non-magnetic material, armature members mounted on opposite sides of said disc member, each having an arcuate arm portion adapted to enter one of said solenoid cores, said arcuate arm portions terminating at a distance substantially equal to the coil length, an indicator member mounted on the periphery of said disc member and moving with the disc member into two energized positions from a neutral center position, and a centering spring anchored to a frame arm and biasing said disc member in central position.

2,655,648
RADIO NAVIGATION SYSTEM
Harold John Schrader, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 31, 1948, Serial No. 68,644
8 Claims. (Cl. 343—6.8)

1. A receiving system comprising a television receiver for receiving composite television signals including first pulses representing traffic information, second pulses representing a self-identification line, and third pulses for synchronizing the sweep generators of the receiver, first, second, and third separate video frequency signal circuits in said receiver, means in the receiver for separating the three kinds of pulses to apply them respectively to the separate signal circuits, an indicator responsive to the first pulses to produce a display of traffic information including visible spots representing the positions of craft and responsive to the second pulses to produce an identification display identifying one of the spots as representing a particular craft, said first and second signal circuits being both connected to said indicator for applying thereto said first and second signals, a normally closed gate in said second signal circuit, a pulse receiver associated with the television receiver, a gating pulse generator connected to the output of the pulse receiver and responsive to a train of short-duration pulses to produce a long gating pulse, and means for applying the gating pulse to the gate to open it for the transmission of said second pulses to said indicator.



2,655,649
OBJECT LOCATION RELAY SYSTEM
Everard M. Williams, State College, Pa.
Application March 6, 1945, Serial No. 581,264
6 Claims. (Cl. 343—6)
(Granted under Title 35, U. S. Code (1952), sec. 266)



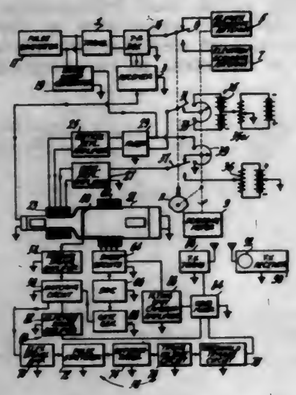
1. A radio system of the character described, comprising in combination a control station, a missile adapted for independent flight, a relay station that is separable from said missile and together therewith adapted for being launched from the site of said control station, and means at said control station for directing thru said relay station the course of flight of said missile after being separated from said relay station.

2,655,650

RADAR GROUND APPROACH SYSTEM

John N. Marshall, Bryn Mawr, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application March 19, 1951, Serial No. 216,797
14 Claims. (Cl. 343—11)



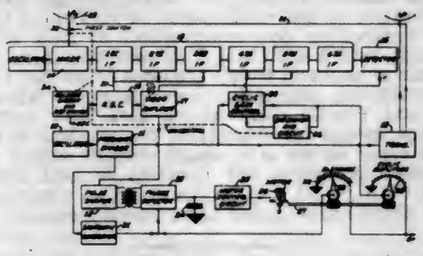
1. A ground approach system for tracking an aircraft comprising at a ground station, radar means scanning alternately in azimuth and elevation throughout respective sectors which include the glide path to be followed in landing, said radar means providing substantially continuous information as to the range, azimuth, and elevation of an aircraft within said path, a storage tube having a cathode ray and storage target means for storing said information in an azimuth zone and an elevation zone distinct from each other on said target, means controlling said cathode ray in response to said radar means during scanning in azimuth to produce in said azimuth zone a stored spot whose position with respect to the undeflected position of said ray corresponds to the position of said aircraft in range and azimuth with respect to said ground station, and means controlling said cathode ray during scanning in elevation to produce in said elevation zone a stored spot whose position along a line with respect to said undeflected position corresponds to said range plus a quantity proportional to the elevation angle of said aircraft from the elevation angle of said glide path, means for deriving in separate azimuth and elevation channels signals corresponding respectively to those stored in said zones, said channel signals being correlated with sweep signals for display on a cathode ray tube, means in said elevation channel comprising a monostable pulse circuit for producing a single pulse signal of predetermined time duration substantially equal to that of a single one of said sweep signals and corresponding to said stored elevation spot, and means to mix the said single predetermined time duration pulse and signals from said azimuth channel in time relationship, whereby the said mixed signals correspond to those of a cathode ray tube display in which a visible spot has a position with respect to an undeflected cathode ray tube spot position corresponding to the position of said aircraft in range and azimuth with respect to said ground station, and a visible line in said display resultant from said single predetermined time duration pulse is distant from said undeflected spot position an amount corresponding to said range plus a quantity proportional to deviation of said elevation angle of said aircraft from the elevation angle of said glide path at said range, and said visible line runs through said visible spot only when said aircraft is at the elevation angle of said glide path.

2,655,651

ZERO CHECK OR CALIBRATING SYSTEM FOR PULSE ALTIMETERS

Horace Clifford Allen, Princeton, and Randall Clarence Ballard, Trenton, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application March 30, 1949, Serial No. 84,398
11 Claims. (Cl. 343—13)



1. A pulse echo distance determining system for determining the distance to a reflecting object that includes a pulse transmitter, a reflected pulse receiver, said receiver including a sensitivity time control circuit for suppressing feed-through signals from the transmitter, a motor, a distance indicator driven by said motor, a distance indicator control circuit connected by way of said motor to said indicator, means under the control of said distance indicator control circuit for decreasing the amount that said sensitivity time control circuit reduces the gain of said receiver as said distance decreases, switching means for applying directly to the receiver a portion of the transmitter output and for simultaneously therewith disconnecting the sensitivity time control circuit from the receiver, whereby the indicator in response to said transmitter output will run to its zero-distance indication position; means for thereafter eliminating the application of the said portion of the transmitter output to the receiver and for simultaneously therewith connecting the sensitivity time control circuit to the receiver, and means for applying to the distance indicator control circuit for a short period of time only a voltage of the correct polarity and of sufficient amplitude so that said indicating means will be moved to such a position that the sensitivity time control circuit output will suppress in the receiver the feed-through signals from the transmitter and normal received reflected pulse control is reestablished.

2,655,652

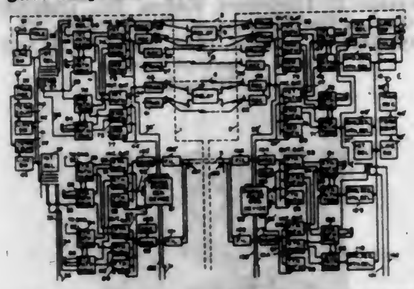
MULTIPLEX TIME DIVISION TELEPHONE SYSTEMS

John H. Homrighous, Oak Park, Ill.

Application June 28, 1948, Serial No. 35,615
29 Claims. (Cl. 343—204)

1. In a communication system, a telephone office, a signal transmitter and a signal receiver associated with said office, means associated with said receiver to receive a carrier wave modulated with message signals, control signals and synchronizing signals, means associated with said transmitter to produce a second carrier wave, generator means associated with said

transmitter and receiver under control of said received synchronizing signals to produce a plurality of recurring channel pulses, a microphone to produce other message signals representative of an audible message, a source of alternating current, signal path terminal equipment associated with said transmitter and receiver comprising a first incoming signal channel gate amplifier under control of a first one of said recurring channel pulses to receive said message signals from said receiver during a first recurring period of time, a second incoming signal channel gate amplifier under control of a second one



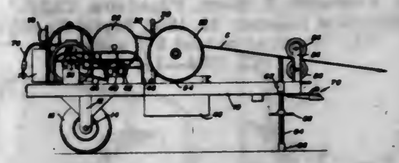
of said recurring channel pulses to receive said control signals from said receiver during a second recurring period of time, a first outgoing signal channel gate amplifier under control of said first recurring channel pulse to control transmission of said other message signals, from said microphone, over said second carrier wave during said first recurring period and a second outgoing signal channel gate amplifier under control of a third one of said recurring channel pulses to control transmission of alternating current supervisory signals, from said source, over said second carrier wave during a third recurring period.

2,655,653

CABLE PULLING MACHINE

Wilbred A. Chauvin, Albuquerque, N. Mex.

Application March 22, 1951, Serial No. 217,033
7 Claims. (Cl. 254—134.3)

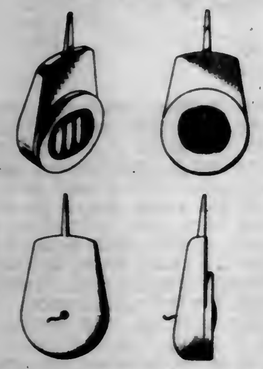


1. A cable pulling machine comprising a wheeled frame, a platform mounted on the frame, a cable drum supported on the platform for rotation, a power means mounted on the platform, a drive connection between said cable drum and said power means, guide means on the platform and swingable back and forth along side of the cable drum for guiding cable being applied to or removed from the cable drum, vertically adjustable jack means carried by the frame for selectively retaining the frame horizontal and in a vertically inclined position, and means adjustably mounted on the jack means forming anchoring means for guy wires, whereby the frame may be retained anchored in a desired position.

DESIGNS

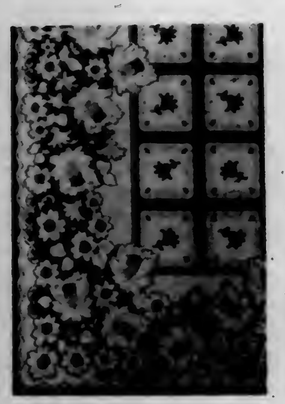
OCTOBER 13, 1953

170,564
TOY TALKING DEVICE
Frederick J. Bloss, Pasadena, Calif.
Application January 13, 1953, Serial No. 23,113
Term of patent 3½ years
(Cl. D34—15)



The ornamental design for a toy talking device, substantially as shown.

170,565
TABLECLOTH
Francesco P. Casterani, Exton, Pa., assignor to Quaker Lace Company, Philadelphia, Pa.
Application June 17, 1953, Serial No. 25,542
Term of patent 7 years
(Cl. D92—26)



The ornamental design for a tablecloth substantially as shown and described.

170,566
TABLECLOTH
Francesco P. Casterani, Exton, Pa., assignor to Quaker Lace Company, Philadelphia, Pa.
Application June 17, 1953, Serial No. 25,543
Term of patent 7 years
(Cl. D92—26)



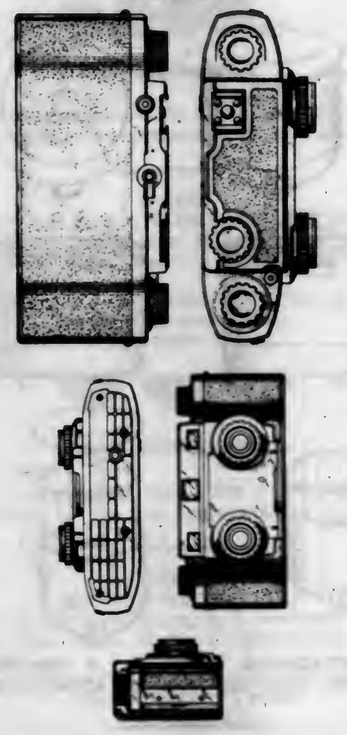
The ornamental design for a tablecloth, substantially as shown and described.

170,567
TABLECLOTH
Francesco P. Casterani, Exton, Pa., assignor to Quaker Lace Company, Philadelphia, Pa.
Application June 17, 1953, Serial No. 25,544
Term of patent 7 years
(Cl. D92—26)



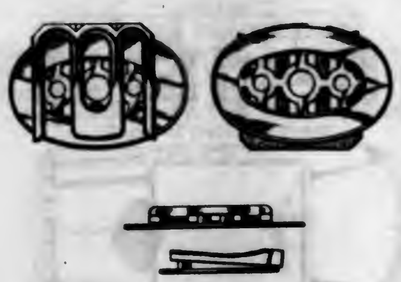
The ornamental design for a tablecloth, substantially as shown and described.

170,568
STEREOSCOPIC CAMERA
John E. Davis, Sherman Oaks, Calif., assignor to Revere Camera Company, Chicago, Ill., a corporation of Delaware
Application July 28, 1952, Serial No. 20,783
Term of patent 14 years
(Cl. D61—1)



The ornamental design for a stereoscopic camera, as shown.

170,569
COIN HOLDER AND AUTO VISOR CLIP COMBINATION
Christy M. Del Mas, New York, N. Y., assignor to Michael P. Grace, New York, N. Y.
Application December 12, 1952, Serial No. 22,686
Term of patent 14 years
(Cl. D52—4)



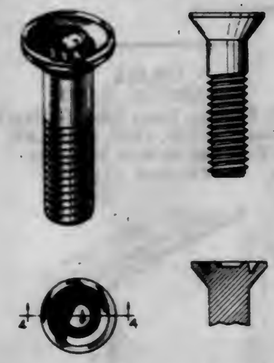
The ornamental design for a coin holder and auto visor clip combination, as shown.

170,570
TOY ANIMAL FIGURE
Evelyn H. Essex, Glenmont, N. Y., assignor to F. C. Huyck & Sons, Rensselaer, N. Y., a corporation of New York
Application January 7, 1953, Serial No. 23,066
Term of patent 14 years
(Cl. D34—2)



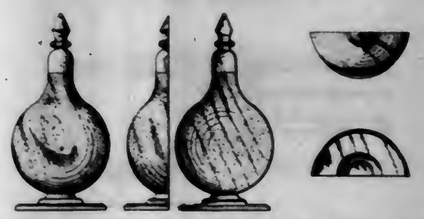
The ornamental design for a toy animal figure, as shown.

170,571
BOLT
Charles Fulop, Cleveland, Ohio
Application March 2, 1953, Serial No. 23,849
Term of patent 14 years
(Cl. D54—9)



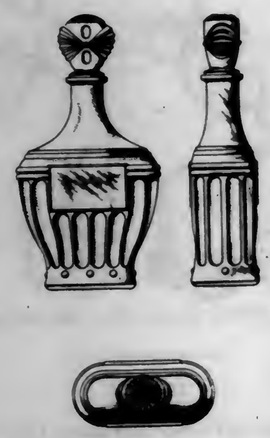
The ornamental design for a bolt, substantially as shown.

170,572
PHARMACY DISPLAY GLOBE
Farel Hart, St. Petersburg, Fla.
Application July 17, 1953, Serial No. 26,028
Term of patent 3½ years
(Cl. D58—8)



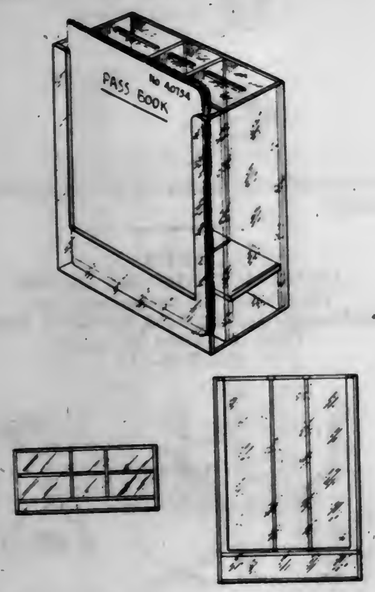
The ornamental design for a pharmacy display globe, as shown.

170,573
DECANTER
Robert E. Hennessy, Summit, N. J., assignor to National Distillers Products Corporation, New York, N. Y.
Application July 20, 1953, Serial No. 26,055
Term of patent 14 years
(Cl. D58—8)



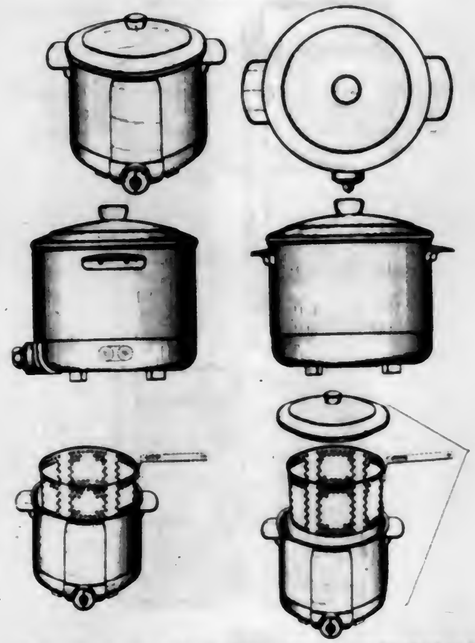
The ornamental design for a decanter, as shown and described.

170,574
PASSBOOK BANK
John W. Hickey, Long Island City, N. Y.
Application April 20, 1953, Serial No. 24,594
Term of patent 14 years
(Cl. D34—11)



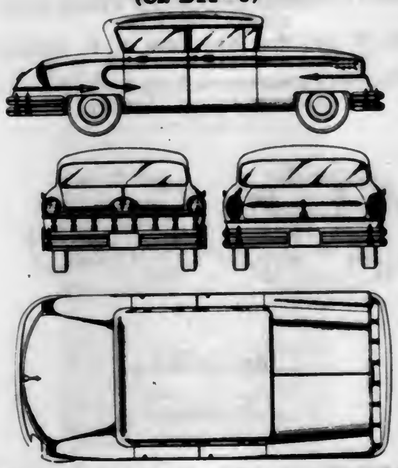
The ornamental design for a passbook bank, substantially as shown and described.

170,575
COMBINATION COOKER AND DEEP FAT FRYER
Ivar Jepson, Oak Park, Ill., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois
Application February 2, 1953, Serial No. 23,395
Term of patent 14 years
(Cl. D81—10)



The ornamental design for a combination cooker and deep fat fryer, as shown and described.

170,576
AUTOMOBILE
Imogene H. Johnson, Tulsa, Okla.
Application March 12, 1953, Serial No. 24,003
Term of patent 14 years
(Cl. D14—3)



The ornamental design for an automobile, as shown.

170,577
LINK CHAIN FOR A BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 9, 1953, Serial No. 25,403
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a link chain for a bracelet or the like, substantially as shown.

170,578
LINK CHAIN FOR A NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 9, 1953, Serial No. 25,404
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a link chain for a necklace or the like, substantially as shown.

170,579
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 9, 1953, Serial No. 25,405
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

170,580
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 9, 1953, Serial No. 25,406
Term of patent 7 years
(Cl. D45—9)



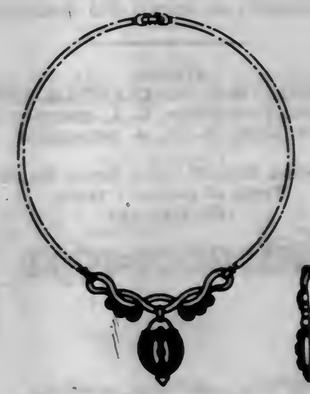
The ornamental design for an earring or the like, substantially as shown.

170,581
BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 9, 1953, Serial No. 25,407
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet or the like, substantially as shown.

170,582
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 9, 1953, Serial No. 25,408
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

170,583
BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 23, 1953, Serial No. 25,610
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet or the like, substantially as shown.

170,584
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 23, 1953, Serial No. 25,611
Term of patent 7 years
(Cl. D45—16)



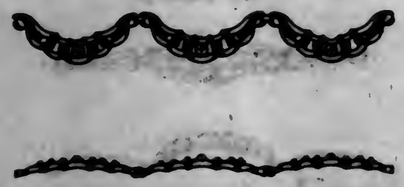
The ornamental design for a necklace or the like, substantially as shown and described.

170,585
LINK CHAIN FOR A BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 23, 1953, Serial No. 25,615
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a link chain for a bracelet or the like, substantially as shown.

170,586
LINK CHAIN FOR A NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 23, 1953, Serial No. 25,616
Term of patent 7 years
(Cl. D45—16)



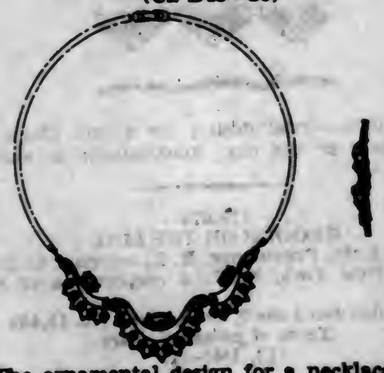
The ornamental design for a link chain for a necklace or the like, substantially as shown.

170,587
BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 30, 1953, Serial No. 25,722
Term of patent 7 years
(Cl. D45—4)



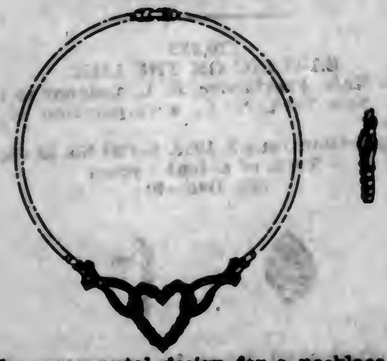
The ornamental design for a bracelet or the like, substantially as shown.

170,588
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 30, 1953, Serial No. 25,723
Term of patent 7 years
(Cl. D45—16)



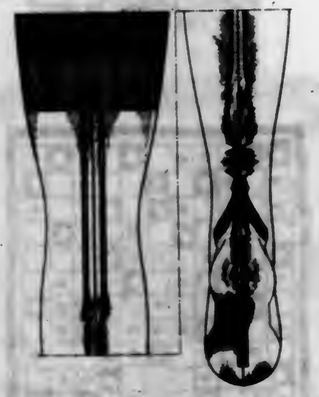
The ornamental design for a necklace or the like, substantially as shown and described.

170,589
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 30, 1953, Serial No. 25,726
Term of patent 7 years
(Cl. D45—16)



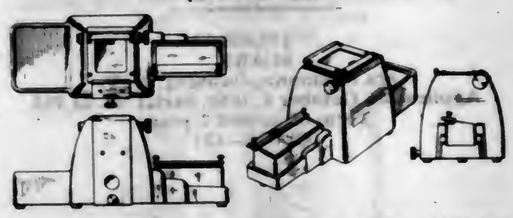
The ornamental design for a necklace or the like, substantially as shown and described.

170,590
STOCKING
Joseph J. Ketchel, Lehighton, Pa.
Application April 22, 1953, Serial No. 24,618
Term of patent 14 years
(Cl. D47—7)



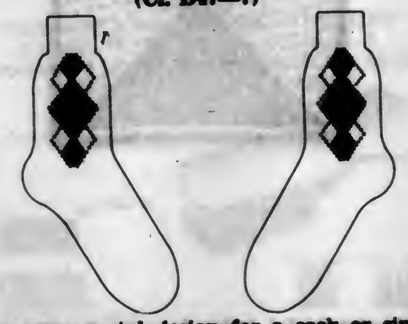
The ornamental design for a stocking, as shown and described.

170,591
MACHINE FOR TAKING FINGERPRINTS
Theodore H. Krueger, Stratford, Conn., assignor to Better Packages, Inc., a corporation of New York
Application November 15, 1952, Serial No. 22,269
Term of patent 14 years
(Cl. D64—11)



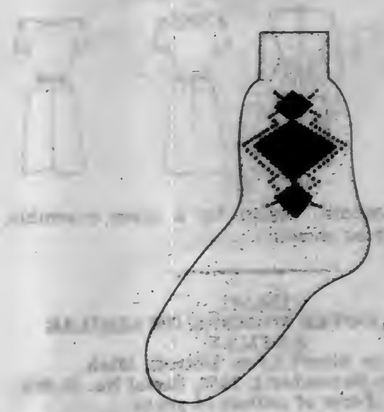
The ornamental design for a machine for taking fingerprints, substantially as shown.

170,592
SOCK OR SIMILAR ARTICLE
Lionel Lazar, Lynbrook, N. Y.
Application March 23, 1953, Serial No. 24,155
Term of patent 3½ years
(Cl. D47—7)



The ornamental design for a sock or similar article, substantially as shown.

170,593
SOCK OR SIMILAR ARTICLE
Lionel Lazar, Lynbrook, N. Y.
Application June 5, 1953, Serial No. 25,236
Term of patent 3½ years
(Cl. D47—7)



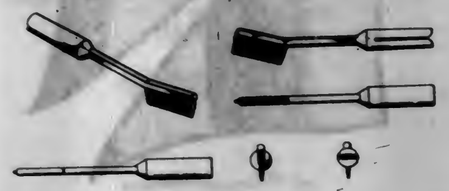
The ornamental design for a sock or similar article, substantially as shown and described.

170,594
SYRINGE AND DOUCHE CONTAINER
Nita Leonard and Mary Carol, Chicago, Ill.
Application February 1, 1952, Serial No. 18,342
Term of patent 14 years
(Cl. D83—1)



The ornamental design for a syringe and douche container, as shown.

170,595
COMBINATION HAIR CURLER AND COMB
Arnold L. Lewis, Los Angeles, Calif.
Application May 4, 1953, Serial No. 24,325
Term of patent 14 years
(Cl. D66—8)



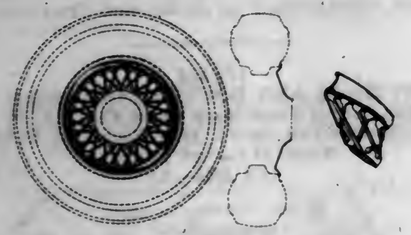
The ornamental design for a combination hair curler and comb, as shown.

170,596
DRESS ENSEMBLE
Herman Lipman, New York, N. Y.
Application June 16, 1953, Serial No. 25,521
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress ensemble, substantially as shown.

170,597
WHEEL COVER MEMBER OR SIMILAR ARTICLE
George Albert Lyon, Detroit, Mich.
Application December 1, 1952, Serial No. 22,505
Term of patent 14 years
(Cl. D14—30)



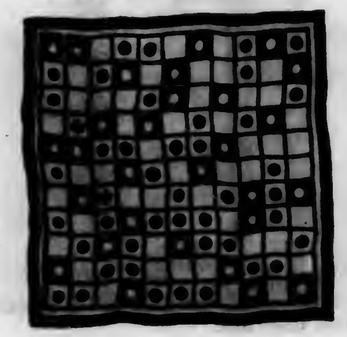
The ornamental design for a wheel cover member or similar article, substantially as shown and described.

170,598
SCARF
Vera Neumann, Ossining, N. Y.
Application October 6, 1952, Serial No. 21,719
Term of patent 7 years
(Cl. D3—12)



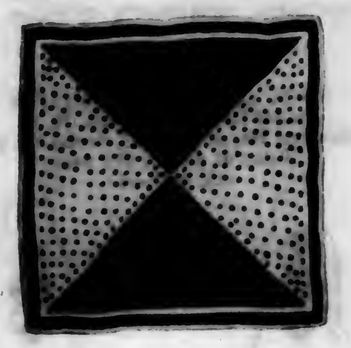
The ornamental design for a scarf, substantially as shown and described.

170,599
SCARF
Vera Neumann, Ossining, N. Y.
Application October 6, 1952, Serial No. 21,720
Term of patent 7 years
(Cl. D3—12)



The ornamental design for a scarf, substantially as shown and described.

170,600
SCARF
Vera Neumann, Ossining, N. Y.
Application October 6, 1952, Serial No. 21,725
Term of patent 7 years
(Cl. D3—12)



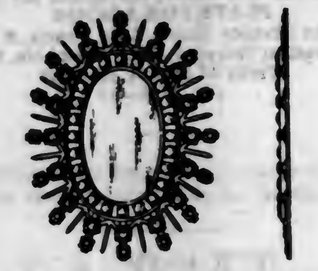
The ornamental design for a scarf, substantially as shown and described.

170,601
SCARF
Vsevolode Nicouline, Milan, Italy, assignor to Edgar C. Hyman Co., Inc., New York, N. Y., a corporation of New York
Application April 28, 1953, Serial No. 24,727
Term of patent 7 years
(Cl. D3—12)



The ornamental design for a scarf, substantially as shown.

170,602
MEDALLION OR SIMILAR ARTICLE
Theresa C. O'Hare, Quincy, Mass.
Application February 11, 1953, Serial No. 23,560
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a medallion or similar article, substantially as shown.

170,603
COMBINED BRUSH AND SHOEHORN
Charles W. Pennington, Union, N. J.
Application March 18, 1952, Serial No. 18,950
Term of patent 14 years
(Cl. D86—10)



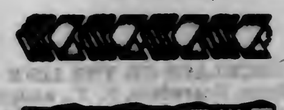
The ornamental design for a combined brush and shoehorn, as shown.

170,604
MUSIC BOX CHRISTMAS ORNAMENT
John Petry, New York, N. Y., assignor to Raylite Electric Corp., Bronx, N. Y., a corporation of New York
Application October 4, 1952, Serial No. 21,701
Term of patent 7 years
(Cl. D56—1)



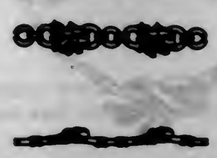
The ornamental design for a music box Christmas ornament, as shown.

170,605
LINK CHAIN FOR A NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 18, 1953, Serial No. 25,066
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a link chain for a necklace or the like, substantially as shown.

170,606
LINK CHAIN FOR A BRACELET OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 9, 1953, Serial No. 25,399
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a link chain for a bracelet or the like, substantially as shown.

170,607
NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 9, 1953, Serial No. 25,400
Term of patent 7 years
(Cl. D45—16)



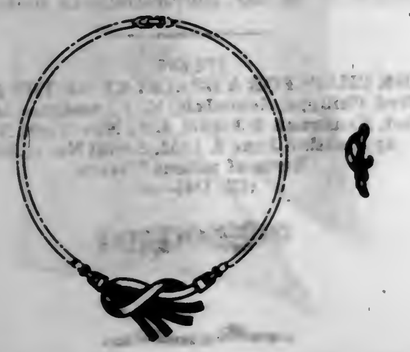
The ornamental design for a necklace or the like, substantially as shown and described.

170,608
BRACELET OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 19, 1953, Serial No. 25,572
Term of patent 7 years
(Cl. D45—4)



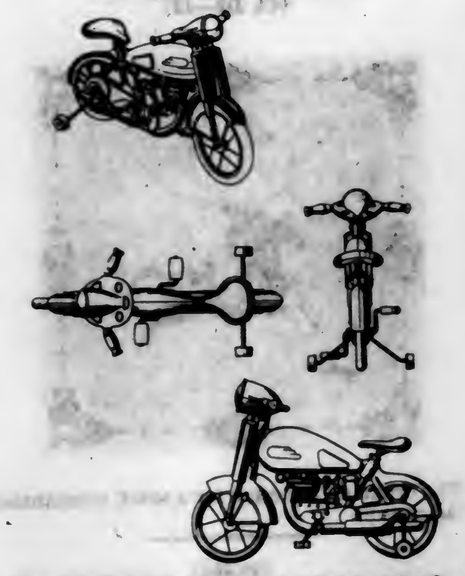
The ornamental design for a bracelet or the like, substantially as shown.

170,609
NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 19, 1953, Serial No. 25,573
Term of patent 7 years
(Cl. D45—16)



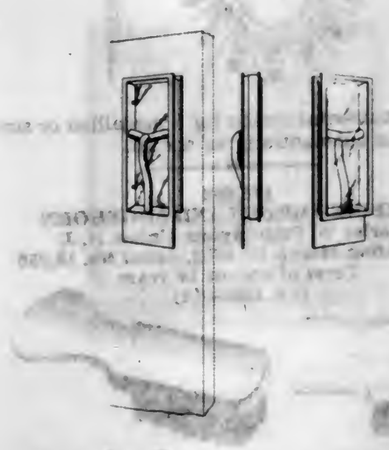
The ornamental design for a necklace or the like, substantially as shown and described.

170,610
CHILD'S BICYCLE
David Sebel, London, England
Application June 10, 1952, Serial No. 20,114
In Great Britain April 10, 1952
Term of patent 14 years
(Cl. D34—15)



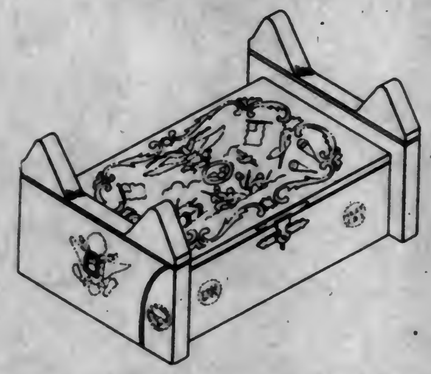
The ornamental design for a child's bicycle, as shown.

170,611
COMBINED WINDOW, HANDLE, AND PUSH PLATE FOR A DOOR
John Stanley Sharp, Lido Beach, N. Y.
Application March 3, 1953, Serial No. 23,870
Term of patent 14 years
(Cl. D12—1)



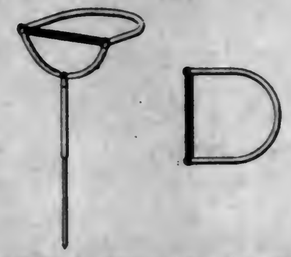
The ornamental design for a combined window, handle, and push plate for a door, substantially as shown and described.

170,612
SERVICE MAN'S CHEST
James T. Shepler, North Hollywood, Calif.
Application May 21, 1952, Serial No. 19,868
Term of patent 14 years
(Cl. D58—12.6)



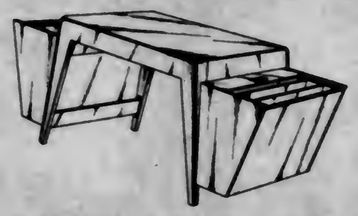
The ornamental design for a service man's chest, as shown and described.

170,613
FRAME OF AN OUTDOOR BABY SEAT
Cedric C. Stack, Elwood, Ind.
Application September 5, 1952, Serial No. 21,344
Term of patent 14 years
(Cl. D15—1)



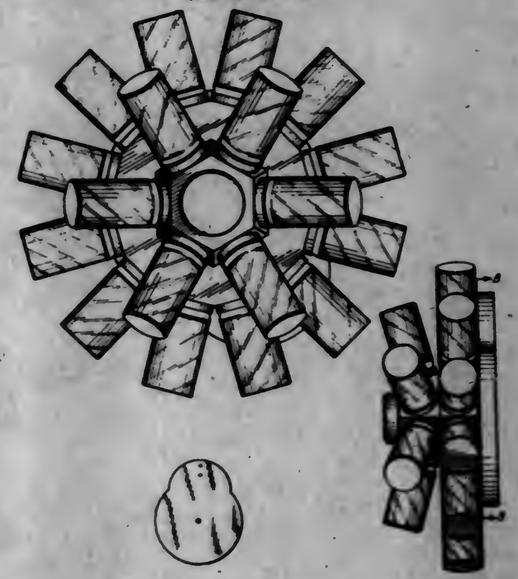
The ornamental design for a frame of an outdoor baby seat, substantially as shown.

170,614
VANITY BENCH OR SIMILAR ARTICLE
Clytie Ann Thomson, Roanoke, Va.
Application April 21, 1950, Serial No. 9,412
Term of patent 14 years
(Cl. D15—11)



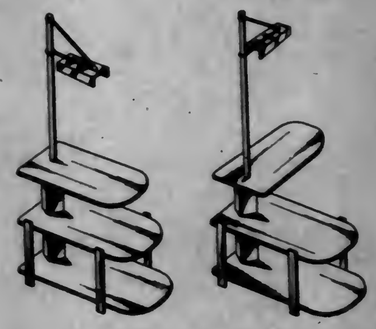
The ornamental design for a vanity bench or similar article, as shown and described.

170,615
COMBINED JARS AND RACK THEREFOR
Edward Troha, Miami, Fla.
Application October 6, 1952, Serial No. 21,706
Term of patent 14 years
(Cl. D58—26)



The ornamental design for combined jars and rack therefor, as shown.

170,616
COMBINED ADJUSTABLE LAMP STAND AND TABLE
Milton R. Yarger, Morgantown, W. Va.
Application April 27, 1951, Serial No. 14,905
Term of patent 14 years
(Cl. D32—14)



The ornamental design for a combined adjustable lamp stand and table, as shown.









October 20, 1953 Volume 675 Number 3

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

SINCLAIR WEEKS, *Secretary*

U. S. Patent Office

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PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business October 2, 1953

Total number of patent applications awaiting action, 103,024. Date of oldest new application, December 3, 1952; date of oldest amended application, December 4, 1952.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) BLUM, A. (Acting)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	1-19-53	1-13-53	1300
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	1-12-53	1-6-53	1240
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	2-5-53	2-6-53	1393
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	1-14-53	1-14-53	1539
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	1-22-53	1-22-53	984
6. SURLE, H., Carbon Chemistry (part)	12-3-52	12-6-52	2815
7. GONSALVES, J. E., Optics; Photography (part)	1-12-53	1-13-53	1732
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	1-30-53	1-29-53	1533
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	1-16-53	1-14-53	1308
10. REYNOLDS, E. R. (NEFF, P. R., Acting); Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	2-12-53	2-9-53	1295
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	1-30-53	1-22-53	1205
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission With Clutch or Brake.	1-15-53	1-7-53	1236
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	12-31-52	1-2-53	1251
14. MANIAN, J. C., Fluid Pressure Brake; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	1-30-53	1-21-53	1444
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	1-2-53	1-2-53	1705
16. LOVEWELL, N. N., Television; Telephony; Recorders	12-23-52	12-19-52	1799
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters: Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	1-15-53	1-6-53	1519
18. KURZ, J. A., Power Plants; Speed Responsive Devices	1-23-53	1-5-53	737
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	12-27-52	12-24-52	1146
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	2-2-53	2-2-53	1261
21. MADER, R. C., Textiles	1-12-53	1-5-53	1265
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	1-19-53	1-23-53	1032
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	12-26-52	1-7-53	1002
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machine; Textiles, Ironing or Smoothing	2-6-53	2-6-53	1090
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	12-22-52	12-20-52	1373
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	1-30-53	2-2-53	1973
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	1-19-53	1-19-53	1283
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	2-11-53	1-22-53	1102
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	1-21-53	1-7-53	1044
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	2-19-53	2-19-53	1412
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	1-2-53	12-30-52	2533
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	2-6-53	2-6-53	1336
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	12-29-52	12-29-52	1600
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	12-30-52	12-30-52	1277
35. BROMLEY, E. D., Dispensing; Filling and Closing Portable Receptacles	2-9-53	2-13-53	1243
36. McFADYEN, A. D., Measuring and Testing	1-19-53	1-19-53	1126
37. LEVY, M. L., Electricity-Switches, Welding, Heating	2-2-53	2-3-53	1788
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	1-26-53	1-26-53	1588
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	2-24-53	2-24-53	1680
40. DRUMMOND, E. J., Receptacles (part); Packages	4-6-53	4-6-53	900
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	2-9-53	2-9-53	1653

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors.	1-2-53	1-2-53	2209
43. KNIGHT, W. G. (Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	12-29-52	1-7-53	1883
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	1-26-53	1-21-53	1327
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	12-24-52	12-15-52	1186
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	1-16-53	1-12-53	1621
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	12-29-52	1-2-53	2226
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	1-14-53	1-16-53	1456
50. BENGEL, W. G., Synthetic Resins; Rubber	3-30-53	3-30-53	1748
51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics.	1-26-53	1-26-53	1672
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	2-10-53	2-11-53	1992
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	2-3-53	2-9-53	1015
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	1-7-53	1-9-53	1871
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	1-26-53	1-7-53	1006
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	2-19-53	2-16-53	1317
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	1-28-53	1-27-53	1785
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	1-5-53	1-7-53	1427
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	1-21-53	1-21-53	1457
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	2-24-53	2-20-53	918
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.	2-6-53	2-5-53	1190
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	1-5-53	1-5-53	2037
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	1-16-53	1-16-53	1763
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	2-2-53	1-21-53	838
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	2-9-53	2-9-53	1585
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	2-5-53	2-2-53	1546
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording	1-15-53	1-19-53	1773
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	12-5-52	12-4-52	3690
DESIGNS: A—BREHM, G. L., Industrial Arts	5-4-53	6-3-53	1108
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	5-18-53	5-25-53	880

Number of new applications received week ending September 11, 1953

PATENTS 1,053 DESIGNS 56 REISSUES 3 TOTAL 1,112

Total number of trade-mark applications awaiting action (including renewals and republications), 10,949. Date of oldest new application, May 4, 1953; date of oldest amended application, May 5, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	5-5-53	5-5-53	2676
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	5-4-53	5-6-53	2811
Renewals (All Classes)	7-31-53	9-2-53	336
Republications (All Classes)	7-28-53	9-8-53	212
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	5-20-53	5-17-53	2419
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107.	5-12-53	5-6-53	2405

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abbott Laboratories, North Chicago, Ill. Various radioactive pharmaceuticals. Serial No. 611,332, Oct. 20. Class 18.

Abbott Laboratories, North Chicago, Ill. Feed supplement. Serial No. 634,179, Oct. 20. Class 18.

Abbott Laboratories, North Chicago, Ill. Medicinal preparation. Serial No. 646,092, Oct. 20. Class 18.

Abbott Laboratories, North Chicago, Ill. Composition containing d-desoxyephedrine hydrochloride and vitamins. Serial No. 646,640, Oct. 20. Class 18.

Adams, Frederick C., doing business under the name of Wild Acres Turkey Farm, Steep Falls, Maine. Eviscerated oven-ready stuffed and unstuffed turkeys. Serial No. 643,259, Oct. 20. Class 46.

Air Associates, Inc., Teterboro, N. J. Passenger safety belts for use in automobiles. Serial No. 638,462, Oct. 20. Class 19.

Akron Brass Mfg. Company, Inc., Wooster, Ohio. Fire hose nozzles and hose line couplings. Serial No. 635,945, Oct. 20. Class 13.

Albion Motors Limited, Scotstoun, Glasgow, Scotland. Internal combustion engines. Serial No. 642,722, Oct. 20. Class 23.

Alexander Doll Company, Inc., doing business under the name "Madame Alexander," New York, N. Y. Dolls. Serial No. 645,218, Oct. 20. Class 22.

Allen Foods, Inc., St. Louis, Mo. Canned vegetables, canned Chinese-type foods, canned fruits, etc. Serial No. 616,153, Oct. 20. Class 46.

Allied Laboratories, Inc., Kansas City, Mo. Antibiotic preparation. Serial No. 645,765, Oct. 20. Class 18.

Alumiclad Doors, Inc., Port Orange, Fla. Building doors. Serial No. 635,212, Oct. 20. Class 12.

American Brake Shoe Company, New York, N. Y. Bare and coated welding rods. Serial No. 631,971, Oct. 20. Class 14.

American Gilsonite Company, Salt Lake City, Utah. Ground, hard bitumen used as insulating material. Serial No. 640,032, Oct. 20. Class 12.

American International Marine Agency of New York, Inc.: *See*—
American International Underwriters Corporation.

American International Underwriters Corporation, New York, N. Y., assignee of American International Marine Agency of New York, Inc. Ocean and inland marine insurance agency and brokerage services. Serial No. 630,659, Oct. 20. Class 102.

American Lumber & Treating Co., Chicago, Ill. Chemically impregnating forest products. Serial No. 603,143, Oct. 20. Class 106.

American Plastics Corporation, New York, N. Y. Synthetic resinous materials. Serial No. 645,942, Oct. 20. Class 6.

Anderson-Peck Enterprises, Cincinnati, Ohio. Dog shampoo soap. Serial No. 633,906, Oct. 20. Class 52.

Apothecaries Hall Company, Waterbury, Conn. Cleaner-sanitizer. Serial No. 641,662, Oct. 20. Class 52.

Ardoil Products: *See*—
Simmons, Pearl M.

Athos Steel Service, Philadelphia, Pa. Expanded metal. Serial No. 633,904, Oct. 20. Class 14.

Austenal Laboratories, Inc., assignee: *See*—
State Dental Technicians, Inc.

Bailey, Malcolm, Sr., doing business as Hydra-Lube Oil Sales, Tampa, Fla. Penetrating oil. Serial No. 640,900, Oct. 20. Class 15.

Ballston-Stillwater Knitting Company, Inc., Ballston Spa, N. Y. Men's hosiery and more particularly socks. Serial No. 640,425, Oct. 20. Class 39.

Barrow, Hepburn & Gale Limited, London, England. Tanned and untanned and dressed and undressed leather and skins in the piece. Serial No. 621,127, Oct. 20. Class 1.

Barry, Lewis, Upper Darby, Pa. Interlocking rubber floor tile. Serial No. 641,264, Oct. 20. Class 12.

Bayerdorfer, Max, doing business as Numberall Stamp & Tool Co., Huguenot Park, Staten Island, N. Y. Metal hand stamp. Serial No. 627,367, Oct. 20. Class 23.

Becton, Dickinson and Company, Rutherford, N. J. Hypodermic syringes. Serial No. 647,586, Oct. 20. Class 44.

Beverly Corporation, The, Chicago, Ill. Vitaminic preparation. Serial No. 635,119, Oct. 20. Class 18.

Big Horn Canning Company, assignee: *See*—
Midland Canning Corporation.

Bolta Products Sales, Inc., Lawrence, Mass. Sheets of plastic synthetic resin. Serial Nos. 603,982–3, Oct. 20. Class 1.

Breon, George A., & Company, New York, N. Y. Adrenocorticotropic hormone preparation. Serial No. 645,030, Oct. 20. Class 18.

Bristol Laboratories Inc., New York and Syracuse, N. Y. Penicillin compounds. Serial No. 611,218, Oct. 20. Class 18.

Brock & Company, Inc., Philadelphia, Pa. Chocolate candy. Serial No. 644,493, Oct. 20. Class 46.

Bryn Mawr Laboratories: *See*—
Malcolm, Fred S.

Bulova Watch Company, Inc., New York, N. Y. Clock radios. Serial No. 644,277, Oct. 20. Class 21.

Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Nasal preparation. Serial No. 633,348, Oct. 20. Class 18.

Calhoun, Leslie A., Minneapolis, Minn. Sick call set for priests. Serial No. 642,800, Oct. 20. Class 50.

Carrier Engineering Company Limited, London, England. Machine for cleaning, rust-proofing, priming and painting sheet metal articles. Serial No. 612,307, Oct. 20. Class 23.

Cavitron Corporation, New York, N. Y. Leasing of equipment to be used for precision cutting of hard materials. Serial No. 619,738, Oct. 20. Class 103.

Cerium Metals Corporation, New York, N. Y. Mischmetal alloy in ingot, pellet, and rod form. Serial No. 633,299, Oct. 20. Class 14.

Champion Products, Inc., Stephenville, Tex. Additive for motor oil and gasoline. Serial No. 596,075, Oct. 20. Class 15.

Charabot & Co., Inc., New York, N. Y. Aldehydes, alcohols, and natural and essential oils. Serial No. 635,952, Oct. 20. Class 6.

Chatham, Carroll F., doing business under the name Chatham Research Laboratories, San Francisco, Calif. Unmounted gems. Serial No. 636,584, Oct. 20. Class 28.

Chatham Research Laboratories: *See*—
Chatham, Carroll F.

Chicago Pharmacal Company, Chicago, Ill. Medicinal preparation. Serial No. 645,996, Oct. 20. Class 18.

Chili Products Corporation Ltd., Los Angeles, Calif. Chili powder and chili pepper. Serial No. 642,197, Oct. 20. Class 46.

Chili Products Corporation Ltd., Los Angeles, Calif. Chili powder. Serial No. 643,647, Oct. 20. Class 46.

Ciba Pharmaceutical Products, Inc., Summit, N. J. Sedative, hypotensive, and spasmolytic agent. Serial No. 646,524, Oct. 20. Class 18.

Collins & Aikman Corporation, Philadelphia, Pa. Yarns. Serial No. 647,601, Oct. 20. Class 43.

Columbia Broadcasting System, Inc., New York, N. Y. Phonographs and parts thereof. Serial No. 646,850, Oct. 20. Class 36.

Columbia Records Inc., Bridgeport, Conn. Grooved phonograph records. Serial No. 646,111, Oct. 20. Class 36.

Converted Rice, Inc., Houston, Tex. Rice. Serial No. 637,646, Oct. 20. Class 46.

Cook Livestock Company, Incorporated, Scottsbluff, Nebr. Livestock feed. Serial No. 633,038, Oct. 20. Class 46.

Cook's, Adam, Sons, Inc., Linden, N. J. Lubricating grease. Serial No. 640,500, Oct. 20. Class 15.

Crystal, David, Inc., New York, N. Y. Ladies' and misses' dresses, skirts, coats, dress and jacket ensembles, etc. Serial No. 646,532, Oct. 20. Class 39.

Curtis Drug Co., Decatur, Ill. Enteric coated tablets for the relief of arthritis, etc. Serial No. 630,991, Oct. 20. Class 18.

Dapag (1943) Limited, London, England. Overprinting, hand-driven machines. Serial No. 639,746, Oct. 20. Class 23.

Davies-Young Soap Company, The, Dayton, Ohio. Paste cleaners, waterless cleaners, etc. Serial No. 634,777, Oct. 20. Class 52.

De Havilland Aircraft Company Limited, The, Hatfield, England. Airplanes and structural parts thereof. Serial No. 644,015, Oct. 20. Class 19.

Diamond Calk Horseshoe Co., Duluth, Minn. Tinners' snips, heavy duty nippers, and carpenters' nippers. Serial No. 634,965, Oct. 20. Class 23.

Don Large Enterprises Inc., Detroit, Mich. Mechanically grooved phonograph records. Serial No. 646,779, Oct. 20. Class 36.

Donovan, F. C., Inc., Boston, Mass. Leather. Serial No. 636,123, Oct. 20. Class 1.

Downs, Mohl & Co. (Not Inc.), Chicago, Ill. Bookkeeping and accounting services, and tax service. Serial No. 645,729, Oct. 20. Class 101.

Dries, Ann N., Bayside, N. Y. Home economist services. Serial No. 636,351, Oct. 20. Class 107.

Dry Cleaners Research Industries, Inc., Chicago, Ill. Pressing fluid composition and preparation for treating garments and fabrics. Serial No. 635,126, Oct. 20. Class 6.

Duke Laboratories, Inc., Stamford, Conn. Base for ointment. Serial No. 641,024, Oct. 20. Class 18.

E. L. M. Feed Stores: *See*—
E. L. M. Stores.

E. L. M. Stores, also doing business as E. L. M. Feed Stores, Greencastle, Pa. Poultry and stock foods. Serial No. 614,269, Oct. 20. Class 46.

Edgewood Farms, Inc., Marysville, Ohio. Grass seed. Serial Nos. 644,605–6, Oct. 20. Class 1.
Electric Sprayit Company, The, Sheboygan, Wis. Portable hand-operated electric sprayers and dusters. Serial No. 631,911, Oct. 20. Class 21.
Electrical Fittings Corporation, Woodside, N. Y. Electrical wiring supplies and accessories therefor. Serial No. 639,923, Oct. 20. Class 21.
Electronic Fabricators, Inc., New York, N. Y. Condensers used in conjunction with all types of electronic equipment. Serial No. 644,226, Oct. 20. Class 21.
Ely, George L., St. Petersburg, Fla. Architectural services. Serial No. 641,919, Oct. 20. Class 100.
Empresa Nacional de Autocamiones S. A., Madrid, Spain. Automobiles and trucks. Serial No. 631,206, Oct. 20. Class 19.
Esso Standard Oil Company, Wilmington, Del., and New York, N. Y. Highly aromatic compounds of hydrocarbon origin. Serial No. 633,838, Oct. 20. Class 6.
Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Putty-like, non-metallic composition. Serial No. 635,356, Oct. 20. Class 12.
Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Metallic welding electrodes. Serial No. 641,375, Oct. 20. Class 14.
Excelsior Accordions, Inc., New York, N. Y. Accordions. Serial No. 645,789, Oct. 20. Class 36.
Fabergé, Inc., New York, N. Y. Soap. Serial No. 640,150, Oct. 20. Class 52.
Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Synthetic plastic materials. Serial No. 635,129, Oct. 20. Class 6.
Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Synthetic detergents. Serial No. 636,782, Oct. 20. Class 52.
Finnell System, Incorporated, Elkhart, Ind. Soap and scouring powder. Serial No. 632,472, Oct. 20. Class 52.
Firestone Tire & Rubber Company, The, Akron, Ohio. Elastic thread. Serial No. 607,986, Oct. 20. Class 43.
Fisher Flouring Mills Company, Seattle, Wash. Wheat flour. Serial No. 563,921, Oct. 20. Class 46.
Flli De Cecco di Filippo, Abruzzi, Italy. Alimentary pastes. Serial No. 632,365, Oct. 20. Class 46.
Fox Geo. A., Products Co., Inc., Kansas City, Mo. Machines employing electric light bulbs. Serial No. 627,331, Oct. 20. Class 21.
Fromson Orban Company, Inc., New York, N. Y. Aluminum alloys. Serial No. 645,975, Oct. 20. Class 14.
G., H. & E. Freydberg, Inc., New York, N. Y. Dolls. Serial No. 650,700, Oct. 20. Class 22.
Gaines, Reginald R., doing business as The Rock Wool Insulation Co., Washington, D. C. Building insulation. Serial No. 633,577, Oct. 20. Class 12.
Gateway Chemicals, Inc., Chicago, Ill. Cleaning compound. Serial No. 634,938, Oct. 20. Class 52.
General Foods Corporation, New York, N. Y. Preparation for making coffee substitute. Serial No. 639,220, Oct. 20. Class 46.
General Tire & Rubber Company, The, Akron, Ohio. Pneumatic tires. Serial No. 647,841, Oct. 20. Class 35.
Germain's, Inc., Los Angeles, Calif. Flower seeds. Serial No. 626,507, Oct. 20. Class 1.
Gerotor May Corporation, Baltimore, Md. Compressed air operated material agitating apparatus. Serial No. 606,376, Oct. 20. Class 23.
Gerotor May Corporation, Baltimore, Md. Compressed air operated material agitating apparatus. Serial No. 607,586, Oct. 20. Class 23.
Gilman Paint and Varnish Company, Chattanooga, Tenn. Interior wall paint. Serial No. 637,436, Oct. 20. Class 16.
Globe-Union Inc., Milwaukee, Wis. Storage batteries. Serial No. 643,952, Oct. 20. Class 21.
Goerlich's, Toledo, Ohio. Mufflers for use with internal combustion engines and extensions for tail pipes. Serial No. 644,172, Oct. 20. Class 23.
Goodman, H., & Sons, Inc., Jersey City, N. J., and New York, N. Y. Barrettes and hair combs. Serial No. 646,863, Oct. 20. Class 40.
Gordon, Jesse, New York, N. Y. Stuffed, plastic, and inflated toy geese. Serial No. 646,389, Oct. 20. Class 22.
Grants Pass Sporting Goods, Grants Pass, Oreg. Fishing rods, fishing lines, fishhooks, etc. Serial No. 640,512, Oct. 20. Class 22.
Grassfield Jefferson Cafeteria: *See*—
Grassfield, John S.
Grassfield, John S., doing business as Grassfield Jefferson Cafeteria, Bloomington, Ill. Restaurant services. Serial No. 640,792, Oct. 20. Class 100.
Harbor Plywood Corporation, Aberdeen, Wash. Panels for concrete form construction. Serial No. 637,275, Oct. 20. Class 12.
Healy, Clarence J., South St. Paul, Minn. Wall shelves. Serial No. 642 969, Oct. 20. Class 32.
Heim, Jacques, Paris, France. Ladies' and misses' coats, suits, dresses, etc. Serial No. 647,004, Oct. 20. Class 39.
Hockaday, Margaret, New York, N. Y. Dolls. Serial No. 640,632, Oct. 20. Class 22.
Hollingshead, R. M., Corporation, Camden, N. J. Chemical compounds for cleaning engine and machinery parts, etc. Serial No. 624,546, Oct. 20. Class 52.
Horlicks Limited, Slough, England. Medicinal preparations. Serial No. 643,102, Oct. 20. Class 18.
Horton, William S. S., Lynbrook, N. Y. Salve against athlete's foot. Serial No. 629,244, Oct. 20. Class 18.
Hudnut, Richard, New York, N. Y. Perfume. Serial No. 633,673, Oct. 20. Class 51.
Hudnut, Richard, New York, N. Y. Cosmetic kits. Serial No. 633,674, Oct. 20. Class 51.
Hydra-Lube Oil Sales: *See*—
Bailey, Malcolm, Sr.
Industrial Soap Company, St. Louis, Mo. Cleaning composition. Serial No. 636,130, Oct. 20. Class 52.
Jaymar Specialty Company, New York, N. Y. Jigsaw puzzles and cardboard pushout toys. Serial No. 646,671, Oct. 20. Class 22.
Jones, Wilson, Company, Chicago, Ill. Stapling machines. Serial No. 646,190, Oct. 20. Class 23.
Kaiser, Henry J., Company, Oakland, Calif. Constructing and repairing of chemical processing plants, airfields, etc. Serial No. 648,025, Oct. 20. Class 103.
Karlsruher Parfumerie- und Toilettenseifenfabrik F. Wolff & Sohn, Gesellschaft mit beschrankter Haftung, Karlsruhe, Baden, Germany. Toilet soap. Serial No. 630,598, Oct. 20. Class 52.
Kellems, Vivien, Stonington, Conn. Women's dresses. Serial No. 636,932, Oct. 20. Class 39.
Kennedy Candies, Inc., Arlington, Mass. Candy. Serial No. 639,277, Oct. 20. Class 46.
Kennedy Minerals Company, Inc., Los Angeles, Calif. Talc. Serial No. 645,156, Oct. 20. Class 1.
Kingsland-Ferguson, Inc., Brooklyn, N. Y. Fungicides, acne preparations, eye drops, etc. Serial No. 633,727, Oct. 20. Class 18.
Klein, Mrs., Kornreich, Bakery: *See*—
Wilkinson, Charles A.
Knudsen Creamery Co. of California, Los Angeles, Calif. Dairy products. Serial No. 611,433, Oct. 20. Class 46.
Kress, S. H., and Company, New York, N. Y. Soap. Serial No. 619,091, Oct. 20. Class 52.
Kroger Co., The, Cincinnati, Ohio. Frozen fresh fish. Serial No. 644,620, Oct. 20. Class 46.
Lapres, Theo. J., Inc., Atlantic City, N. J. Almond macaroons. Serial No. 626,209, Oct. 20. Class 46.
Lee-Wald Garment Company, Kansas City, Mo. Boys' garments. Serial No. 609,730, Oct. 20. Class 39.
Letourneau, R. G., Inc., Peoria, Ill., Longview, Tex., Vicksburg, Miss., and Toccoa, Ga. Wheel tractors. Serial No. 646,145, Oct. 20. Class 23.
Lien Chemical Company, Franklin Park, Ill. Liquid automobile washing soap. Serial No. 610,702, Oct. 20. Class 52.
Lien Chemical Company, Franklin Park, Ill. Powdered automobile washing soap. Serial No. 610,703, Oct. 20. Class 52.
Lilly, Eli and Company, Indianapolis, Ind. Medicinal preparation. Serial No. 637,060, Oct. 20. Class 18.
Livingston Company, The, Woodbridge, Conn. Cleaning and polishing composition. Serial No. 636,484, Oct. 20. Class 4.
"Madame Alexander": *See*—
Alexander Doll Company, Inc.
Majestic Rayon Corporation, New York, N. Y. Synthetic yarn. Serial No. 647,303, Oct. 20. Class 43.
Malcolm, Fred S., doing business under the name and style of Bryn Mawr Laboratories, Bryn Mawr, Pa. Medicinal preparations. Serial Nos. 645,720–1, Oct. 20. Class 18.
Martin, Ed, Seafood Co.: *See*—
Martin, Edmond, Jr.
Martin, Edmond, Jr., doing business as Ed Martin Seafood Co., Westwego, La. Frozen headless shrimp. Serial No. 647,790, Oct. 20. Class 46.
Master Appliance Manufacturing Co., Racine, Wis. Electric hair dryers. Serial No. 629,578, Oct. 20. Class 44.
May Hosiery Mills, Nashville, Tenn. Men's, women's, and children's hosiery, knitted underwear, knitted T shirts, etc. Serial No. 635,092, Oct. 20. Class 39.
Midland Canning Corporation, Billings, Mont., assignor to Big Horn Canning Company, Cowley, Wyo. Canned foods. Serial No. 545,639, Oct. 20. Class 46.
Mid-West Chemical Co., Kansas City, Kans. Self-polishing water emulsion wax. Serial No. 611,444, Oct. 20. Class 4.
Miller, E. S., Laboratories, Inc., Los Angeles, Calif. Analgesic anti-pyretic and anti-spasmodic preparation. Serial No. 645,582, Oct. 20. Class 18.
Mooresville Mills, Inc., Mooresville, N. C. Piece goods. Serial No. 644,050, Oct. 20. Class 42.
Morton's, Washington, D. C. Hosiery. Serial No. 638,734, Oct. 20. Class 39.
Moskowitz, Morris, Corp., New York, N. Y. Pocketbooks. Serial No. 643,498, Oct. 20. Class 3.
Mundet Cork Corporation, North Bergen, N. J. Raw cork and cut cork. Serial No. 634,209, Oct. 20. Class 1.
N. V. Ontwikkelingmaatschappij "Polynorm," Amsterdam and Amersfoort, Netherlands. Pre-fabricated buildings. Serial No. 624,845, Oct. 20. Class 12.
Nancy Ann Storybook Dolls, Inc., San Francisco, Calif. Dools. Serial No. 631,940, Oct. 20. Class 22.
Narby, J., Brooklyn, N. Y. Dog collars, leads, and harnesses; key cases and key holders. Serial No. 643,781, Oct. 20. Class 3.
National Supply Company, The, Pittsburgh, Pa. Ferrous metal, oil well casing, and oil well tubing. Serial No. 643,432, Oct. 20. Class 13.

New England Grain Products Co., Yarmouth, Maine. Poultry, dairy, and stock feeds. Serial No. 600,608, Oct. 20. Class 46.
No-Mortise Hinge Corp., Bound Brook, N. J. Door hinges. Serial No. 646,006, Oct. 20. Class 13.
Norgren, C. A., Co., Denver, Colo. Fluid regulating, relief, safety, check, control, and needle valves, and metallic hose fittings. Serial No. 596,235, Oct. 20. Class 13.
Numberall Stamp & Tool Co.: *See*—
Bayerdorfer, Max.
Oakite Products, Inc., New York, N. Y. General cleansing and washing compound. Serial No. 630,607, Oct. 20. Class 52.
Pacific Hygiene Products, Inc., Monrovia, Calif. Alkali softening and detergent composition. Serial No. 635,428, Oct. 20. Class 52.
Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Chemical composition. Serial No. 641,505, Oct. 20. Class 6.
Plata American Trading Inc., New York, N. Y. Pure refined lard, prime steam lard, rendered pork fat, etc. Serial No. 618,125, Oct. 20. Class 46.
Poor & Company, Chicago, Ill. Corrosion inhibitor. Serial No. 642,044, Oct. 20. Class 15.
Pratt, B. G., Company, Hackensack, N. J. Concentrated insecticides and fungicides. Serial No. 631,890, Oct. 20. Class 6.
Prince Macaroni Manufacturing Company, doing business under the name of Roman Prince Macaroni Co., Lowell, Mass. Alimentary paste products. Serial No. 593,686, Oct. 20. Class 46.
Proctor & Gamble Company, The, Cincinnati, Ohio. Sudsing cleaner, cleanser, and detergent. Serial No. 645,337, Oct. 20. Class 52.
Prom Record Co., Newark, N. J. Mechanically grooved phonograph records. Serial No. 646,232, Oct. 20. Class 36.
Pure Oil Company, The, Chicago, Ill. Dripless oil (lubricating and penetrtaing oil), household oil, etc. Serial No. 604,225, Oct. 20. Class 15.
Quirk, Barbara T., West Hartford, Conn. Small art symbols. Serial No. 632,110, Oct. 20. Class 50.
Rayette, Inc., St. Paul, Minn. Hair lotions and hair cremes. Serial No. 638,270, Oct. 20. Class 51.
Reardon Company, The, St. Louis, Mo. Cement and mortar colors. Serial No. 638,101, Oct. 20. Class 6.
Reflectone Corporation, The, Stamford, Conn. Lubricating oils. Serial No. 636,804, Oct. 20. Class 15.
Robray Mfg. Co., Chicago, Ill. Receptacles adapted to be attached beneath the dashboard of an automobile, etc. Serial No. 629,517, Oct. 20. Class 19.
Rock Wool Insulation Co., The: *See*—
Gaines, Reginald R.
Roly-Poly Corporation, Lima, Ohio. Services to persons establishing and maintaining frozen custard stores and stands. Serial No. 642,840, Oct. 20. Class 100.
Roman Prince Macaroni Co.: *See*—
Prince Macaroni Manufacturing Company.
Ro-Search, Inc., Waynesville, N. C. Shoes, slippers, sandals. Serial No. 564,697, Oct. 20. Class 39.
Sandoz, Henry, et Fils, La Chaux-de-Fonds, Switzerland. Horological instruments. Serial No. 627,789, Oct. 20. Class 27.
Saticoy Lemon Association, Saticoy, Calif. Fresh citrus fruits. Serial No. 644,791, Oct. 20. Class 46.
Saticoy Lemon Association, Saticoy, Calif. Fresh citrus fruits. Serial No. 644,793, Oct. 20. Class 46.
Schlage' Lock Company, San Francisco, Calif. Door knobs, door knob dummy trim, door knob working trim, etc. Serial No. 640,412, Oct. 20. Class 13.
Schuckl & Co. Inc., sometimes doing business as Sunnyvale Packing Company, Sunnyvale, Calif. Canned fruits and canned vegetables. Serial No. 641,332, Oct. 20. Class 46.
Searle, G. D., & Co., Skokie, Ill. Preparation for the treatment of endocrine dysfunction. Serial No. 634,006, Oct. 20. Class 18.
Sel-Set Company, Salem and West Salem, Oreg. Electrical controller apparatus. Serial No. 612,358, Oct. 20. Class 21.
Semple, Mildred, Industries: *See*—
Semple, Mildred P.
Semple, Mildred P., doing business as Mildred Semple Industries, Wollaston, Quincy, Mass. Thin, plastic sheet material, sold cut to size, for use in the mixing and rolling of pie dough and the like. Serial No. 631,950, Oct. 20. Class 50.
Seven-Eleven Records, Inc., Beverly Hills, Calif. Mechanically grooved phonograph records. Serial No. 645,436, Oct. 20. Class 36.
Shiloh Manufacturing Company: *See*—
Strickler, Claude E., Jr.
Simmons, Pearl M., doing business as Ardoil Products, Chicago, Ill. Perfume oil and sachet powder. Serial No. 624,720, Oct. 20. Class 51.
Skin Research, Inc., New York, N. Y. Hand lotion and skin cream. Serial No. 640,871, Oct. 20. Class 51.
Sleep-Ese Co. Inc., Long Beach, Calif. Medicinal preparation. Serial No. 645,439, Oct. 20. Class 18.
Sloan Valve Company, Chicago, Ill. Articles made of a flexible material having properties of rubber. Serial No. 639,146, Oct. 20. Class 35.
Societe des Usines Chimiques Rhone-Poulenc, also doing business as Societe Parisienne d'Expansion Chimique S. A., Paris, France. Medicinal preparation. Serial No. 640,650, Oct. 20. Class 18.
Societe des Usines Chimiques Rhone-Poulenc, also doing business as Societe Parisienne d'Expansion Chimique S. A., Paris, France. Derivative of phenothiazine. Serial No. 640,651, Oct. 20. Class 18.
Societe Parisienne d'Expansion Chimique S. A.: *See*—
Societe des Usines Chimiques Rhone-Poulenc.
Sonotone Corporation, Elmsford, N. Y. Hearing-aid microphones. Serial No. 608,372, Oct. 20. Class 44.
State Dental Technicians, Inc., assignor to Austenal Laboratories, Inc., New York, N. Y. Dentures, metal castings of the stabilizing mesh-work for such dentures, etc. Serial No. 634,497, Oct. 20. Class 44.
Strickler, Claude E., Jr., doing business as Shiloh Manufacturing Company, York, Pa. Waterless hand cleansing preparation. Serial No. 635,331, Oct. 20. Class 52.
Strong Cobb & Company, Inc., Cleveland, Ohio. Sedative preparation. Serial No. 639,791, Oct. 20. Class 18.
Success Wax Ltd., Quebec, Quebec, Canada. Floor wax. Serial No. 633,886, Oct. 20. Class 4.
Summit Sportwear Co., Boston, Mass. Ladies' and misses' skirts. Serial No. 647,111, Oct. 20. Class 39.
Sun Outdoor Products Company, Incorporated, Little Ferry, N. J. Marquees. Serial No. 642,180, Oct. 20. Class 12.
Sunnyvale Packing Company: *See*—
Schuckl & Co. Inc.
Transformer Technicians Inc., Chicago, Ill. Electric transformers and chokes. Serial No. 637,734, Oct. 20. Class 21.
Trudeau Candies, Inc., St. Paul, Minn. Candy. Serial No. 614,178, Oct. 20. Class 46.
Turbine Equipment Company, New York, N. Y. Automatic metal chip handling systems. Serial No. 630,459, Oct. 20. Class 23.
Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.
Union Carbide and Carbon Corporation, New York, N. Y. Metal alloy tubes and metal alloy pipes. Serial No. 643,621, Oct. 20. Class 13.
United Elastic Corporation, Easthampton, Mass. Narrow elastic webbing. Serial No. 633,396, Oct. 20. Class 42.
United States Rubber Company, New York, N. Y. Belting. Serial No. 632,278, Oct. 20. Class 35.
United States Rubber Company, New York, N. Y. Synthetic rubber latex. Serial No. 645,207, Oct. 20. Class 1.
United States Rubber Company, New York, N. Y. Hose made of rubber, etc. Serial No. 646,636, Oct. 20. Class 35.
Universal Cast Iron Mfg. Co., South Gate, Calif. Cast iron soil and drainage pipe fittings. Serial No. 645,849, Oct. 20. Class 13.
Vacuum Metals Corporation, Cambridge, Mass. Metal alloys. Serial No. 644,146, Oct. 20. Class 14.
Van Brode Milling Co., Inc., Clinton, Mass. Shaving lather. Serial No. 641,354, Oct. 20. Class 51.
Venus Chemical Company, Inc., New York, N. Y. Resinous surfacing material for rendering floors conductive of electricity. Serial No. 644,579, Oct. 20. Class 21.
Wacker-Chemie G. m. b. H.: *See*—
Wacker, Dr. Alexander, Gesellschaft fur Elektrochemische Industrie, G. m. b. H.
Wacker, Dr. Alexander, Gesellschaft fur Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany, now by change of name Wacker-Chemie G. m. b. H. Allphatic esters and ketones. Serial No. 635,573, Oct. 20. Class 6.
Warren Laboratories, Baltimore, Md. Partial dentures. Serial No. 642,189, Oct. 20. Class 44.
Wen-Mac Corporation, Beverly Hills, Calif. Internal combustion engines, and parts therefor for use in toy model vehicles. Serial No. 639,353, Oct. 20. Class 22.
West Coast Chemicals and Solvents Corporation, also doing business as Western Feed Supplement Co., Culver City, Calif. Liquid poultry feed fortifier and conditioner containing vitamins and minerals. Serial No. 642,247, Oct. 20. Class 18.
Western Auto Supply Company, Kansas City, Mo. Automobile seat covers, automobile arm rest covers, etc. Serial No. 646,030, Oct. 20. Class 19.
Western Feed Supplement Co.: *See*—
West Coast Chemicals and Solvents Corporation.
Westinghouse E'ectric Corporation, East Pittsburgh, Pa., and East Springfield, Ohio. Electric fans. Serial No. 638,172, Oct. 20. Class 21.
Wheeler The Dirt Farmer, Seattle, Wash. Growing earth. Serial No. 642,333, Oct. 20. Class 1.
White, Clifford W., Louisville, Ky. Cooked chicken and prepared dinners. Serial No. 615,301, Oct. 20. Class 46.
Wild Acres Turkey Farm: *See*—
Adams, Frederick C.
Wilkinson, Charles A., doing business as Mrs. Kornreich Klein Bakery, Milwaukee, Wis. Cookies. Serial No. 613,100, Oct. 20. Class 46.
Wyandotte Chemicals Corporation, Wyandotte, Mich. Aluminum cleaning and brightening compound. Serial No. 643,993, Oct. 20. Class 52.
Wyandotte Chemicals Corporation, Wyandotte, Mich. Laundry washing compound. Serial No. 644,370, Oct. 20. Class 52.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Disposable venoclysis set. 581,376, Oct. 20; Serial No. 646,093, published July 28, 1953. Class 44.

Abco, Inc., formerly known as Apter Bros. & Co., Inc., McKeesport, Pa. Lacquer type coating compositions. 581,170, Oct. 20; Serial No. 610,605, published July 14, 1953. Class 16.

Ace Drill Corporation, Adrian, Mich. Drills, drill blanks, router bits, etc. 581,157, Oct. 20; Serial No. 589,545, published May 19, 1953. Class 23.

Ad-O-Meter Corporation, Ferndale, Mich. Advertising display rack. 581,413, Oct. 20; Serial No. 628,138. Class 50.

Aeolian American Corporation: *See*—
Fischer, J. & C.

Aeroquip Corporation, Jackson, Mich. Metal fittings and couplings. 581,407, Oct. 20; Serial No. 620,072. Class 13.

Ajax Iron Works, Corry, Pa. Drilling engines, engine pumps, and parts, etc. 581,332, Oct. 20; Serial No. 640,318, published June 23, 1953. Class 23.

Aktiebolaget Leo, Helsingborg, Sweden. Pharmaceutical preparations. 581,308, Oct. 20; Serial No. 638,681, published July 7, 1953. Class 18.

Aktieselskabet A. Dragsted, Copenhagen, Denmark. Jewelry, flatware and hollowware, etc. 581,399, Oct. 20; Serial No. 603,829. Class 28.

Aldens, Inc., Chicago, Ill. Linoleum, linoleum rugs, linoleum mats, etc. 581,254, Oct. 20; Serial No. 632,769, published July 14, 1953. Class 20.

Allan & Co.: *See*—
Tanquary, Elmer A.

Allen & Hanburys, Limited, London, England. Pharmaceutical preparation. 581,334, Oct. 20; Serial No. 640,371, published July 21, 1953. Class 18.

Allied Chemical & Dye Corporation, New York, N. Y. Organic chemical. 581,238, Oct. 20; Serial No. 630,563, published July 28, 1953. Class 6.

American Anthracite & Bituminous Coal Corporation, New York, N. Y. Coal. 581,319, Oct. 20; Serial No. 639,147, published July 7, 1953. Class 1.

American Bildrok Company, Chicago, Ill. Granular odor and moisture absorptive litter for animal pets. 581,322, Oct. 20; Serial No. 639,402, published July 14, 1953. Class 1.

American Cyanamid Company, New York, N. Y. Pigment. 581,313, Oct. 20; Serial No. 638,890, published July 28, 1953. Class 6.

American Home Products Corporation, assignee: *See*—
Wyeth Incorporated.

American Lumberman, Inc., Chicago, Ill. Magazine. 581,421, Oct. 20; Serial No. 637,741. Class 38.

American Waterproofing Corp., New Haven, Mo. Fireproofing canvas and fabrics. 581,392, Oct. 20; Serial No. 640,996, published July 14, 1953. Class 106.

Andrews, A. M., Co., Portland, Oreg. Lawn and garden hose sprinklers. 581,427, Oct. 20; Serial No. 644,003. Class 13.

Angel Skin Co., The: *See*—
McMath, John N.

Apollo Company, Inc., The, Detroit, Mich. Diaper bags, picnic bags, and food-carrying bags. 581,242, Oct. 20; Serial No. 630,917, published July 14, 1953. Class 2.

Apparel Arts Publications, Inc., by Esquire, Inc., Chicago, Ill. Publication. 307,098, Oct. 17, 1933. Republished Oct. 20. Class 38.

Apter Bros. & Co., Inc.: *See*—
Abco, Inc.

Arnold, Charles, doing business as Arnold Pharmacy, Chicago, Ill. Cough medicine. 581,398, Oct. 20; Serial No. 600,562. Class 18.

Arnold Pharmacy: *See*—
Arnold, Charles.

Arnold, S. J., Company, Cleveland, Ohio. Undercoatings, primer coatings, or like preparatory protective coatings, etc. 581,191, Oct. 20; Serial No. 622,688, published July 14, 1953. Class 16.

Associated Dye & Print Co. Inc., Paterson, N. J. Chemically treating plain goods of others to create a quilted effect on the goods in color. 581,388, Oct. 20; Serial No. 636,192, published July 14, 1953. Class 106.

Associated Merchandising Corporation to The Associated Merchandising Corporation, New York, N. Y. Cotton, linen, and woolen piece goods, wool and cotton blankets, etc. 308,932, renewed Dec. 26, 1953. O. G. Oct. 20. Class 42.

Associated Merchandising Corporation, The: *See*—
Associated Merchandising Corporation.

Associated Press, The, New York, N. Y. Newspaper cartoons. 308,419, renewed Dec. 5, 1953. O. G. Oct. 20. Class 38.

Atlantic Sponge & Chamois Corporation, New York, N. Y. Chamois. 581,207, Oct. 20; Serial No. 625,572, published July 21, 1953. Class 1.

Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Coating, material comprising a synthetic resin and a primer. 581,204, Oct. 20; Serial No. 624,588, published July 14, 1953. Class 16.

Austria Tabakwerke Aktiengesellschaft vorm, Oesterreichische Tabakregie, Vienna, Austria. Snuff, chewing and smoking tobacco, cigars, etc. 581,216, Oct. 20; Serial No. 627,312, published July 14, 1953. Class 17.

Austria Tabakwerke Aktiengesellschaft vorm, Oesterreichische Tabakregie, Vienna, Austria. Snuff, chewing and smoking tobacco, cigars, etc. 581,240, Oct. 20; Serial No. 630,868, published July 14, 1953. Class 17.

Babcock & Co.: *See*—
Babcock, William J.

Babcock, William J., doing business under the name and style Babcock & Co., Oakland, Calif. Right angle drive attachments for power drills, flexible disk sanders and polisher attachments for power drills, etc. 581,225, Oct. 20; Serial No. 628,663, published May 12, 1953. Class 23.

Bacharach Industrial Instrument Company, Pittsburgh, Pa. Control instruments employed to regulate heat output of combustion heating facilities such as stoves, heaters, etc. 578,980, Aug. 25, 1953. Corrected. O. G. Oct. 20. Class 26.

Bamberger, L., & Co., assignee: *See*—
Macy, R. H., & Co., Inc.

Bates, R. W., Piece Dye Works, Inc., Garnerville, N. Y. Treating rayon and acetate suiting fabrics. 581,389, Oct. 20; Serial No. 637,698, published July 14, 1953. Class 106.

Baxter, Don, Inc., Glendale, Calif. Blood donor set. 581,209, Oct. 20; Serial No. 626,141, published June 30, 1953. Class 44.

Baxter Laboratories, Inc., Morton Grove, Ill. Container maintained under vacuum and a donor set for use therewith. 581,206, Oct. 20; Serial No. 625,393, published June 30, 1953. Class 44.

Bee Chemical Company, Chicago, Ill. Synthetic enamels and varnishes. 581,182, Oct. 20; Serial No. 619,379, published July 14, 1953. Class 16.

Behr-Manning Corporation, Troy, N. Y. Coated abrasive grinding and polishing machinery accessories. 581,186, Oct. 20; Serial No. 620,488, published May 19, 1953. Class 23.

Bell & Howell Company, Chicago, Ill. Motion picture cameras. 581,196, Oct. 20; Serial No. 623,331, published May 26, 1953. Class 26.

Bernstein, Ted, Associates: *See*—
Bernstein, Theodore H.

Bernstein, Theodore H., doing business under the name and style of Ted Bernstein Associates, New York, N. Y. Dental products. 581,331, Oct. 20; Serial No. 639,980, published July 28, 1953. Class 44.

Best Foods, Inc., The, New York, N. Y., and Bayonne, N. J., to The Best Foods, Inc., New York, N. Y. Shortening. 308,612, renewed Dec. 12, 1953. O. G. Oct. 20. Class 46.

Better Brushes, Incorporated, Palmer, Mass. Household deodorizing preparations and moth crystals. 581,323, Oct. 20; Serial No. 639,411, published July 28, 1953. Class 6.

Bishop's Mills Inc., New York, N. Y. Dress yarns. 581,416, Oct. 20; Serial No. 632,146. Class 43.

Black and Decker Manufacturing Company, The, Towson, Md. Polish and cleaner. 581,150, Oct. 20; Serial No. 581,166, published July 21, 1953. Class 4.

Bon-Ton Bakeries Inc., Bozeman, Mont. Bread. 581,412, Oct. 20; Serial No. 625,517. Class 46.

Boston Canning Company Proprietary Limited, Melbourne, Victoria, Australia. Canned meats and canned puddings. 581,402, Oct. 20; Serial No. 612,786. Class 46.

Bowater Paper Company, Inc., New York, N. Y. Newsprint paper, strawboard, one side bleached woodpulp board, etc. 581,221, Oct. 20; Serial No. 627,669, published June 2, 1953. Class 37.

Boyle-Midway Inc., assignee: *See*—
Make It Snow, Inc.

Bradford Dyeing Association (U. S. A.), Westerly, R. I., and New York, N. Y. Services rendered manufacturers of all kinds of fabrics. 581,391, Oct. 20; Serial No. 640,492, published July 14, 1953. Class 106.

Brill, H. C., Company, Inc., Newark, N. J. Icings. 581,426, Oct. 20; Serial No. 643,888. Class 46.

Brooks, Inc., Washington, D. C. Umbrellas. 581,276, Oct. 20; Serial No. 635,460, published June 30, 1953. Class 41.

Buckeye Products Company, The, Cincinnati, Ohio. Core paste. 581,423, Oct. 20; Serial No. 638,690. Class 5.

Bullard, E. D., Company, San Francisco, Calif. First aid kits. 581,146, Oct. 20; Serial No. 567,944, published July 21, 1953. Class 44.

Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Medicinal preparation. 581,264, Oct. 20; Serial No. 634,030, published July 21, 1953. Class 18.

Cabot, Godfrey L., Inc., Boston, Mass. Reinforcing agent for rubbers and plastics, a suspending agent and thickening agent in various oils and water solutions. 581,369, Oct. 20; Serial No. 644,282, published July 28, 1953. Class 6.

California Tax Agency: *See*—
California Tax and Assessment Corporation of San Francisco.

California Tax and Assessment Corporation of San Francisco, doing business under the firm name and style of California Tax Agency, San Francisco, Calif. Services rendered to insurance companies, etc. 581,381, Oct. 20; Serial No. 605,892, published July 7, 1953. Class 101.

Campbell, Harry T., Sons' Corp., Towson, Md. Dry ground limestone. 581,336, Oct. 20; Serial No. 640,609, published July 21, 1953. Class 1.

Cannon, Sarah O., Nashville, Tenn. Entertainment service. 581,384, Oct. 20; Serial No. 625,333, published July 14, 1953. Class 107.

Carolina Mirror Corporation, North Wilkesboro, N. C. Wall and furniture mirrors. 581,300, Oct. 20; Serial No. 638,062, published July 7, 1953. Class 32.

Cat Cay Realty Company, Limited, The, Nassau, Island of New Providence, Bahama Islands, British West Indies. Cigarette lighters; cigarette cases; and smokers' pipes. 581,329, Oct. 20; Serial No. 639,804, published July 14, 1953. Class 8.

Cee-Bee Chemical Co., Inc., Los Angeles, Calif. Corrosion remover and brightener, aluminum alloy surface cleaner and fast acting brightener. 581,231, Oct. 20; Serial No. 629,836, published July 28, 1953. Class 4.

Cel-U-Dex Corporation, Brooklyn, N. Y. Index tab sets. 581,218, Oct. 20; Serial No. 627,490, published May 26, 1953. Class 37.

Cel-U-Dex Corporation, Brooklyn, N. Y. Index tabs. 581,219, Oct. 20; Serial No. 627,492, published May 26, 1953. Class 37.

Cenol Company, Inc., Chicago, Ill. Moth destroyer and preventative. 581,244, Oct. 20; Serial No. 631,466, published July 28, 1953. Class 6.

Chapman Chemical Company, Memphis, Tenn. Agricultural chemicals. 581,370, Oct. 20; Serial No. 644,288, published July 28, 1953. Class 6.

Chartometer Company, Inc., Valley Stream, N. Y. Routegraph instruments. 581,202, Oct. 20; Serial No. 624,467, published May 19, 1953. Class 26.

Cheneweth, James E., National City, Calif. Therapeutic chest pads. 581,295, Oct. 20; Serial No. 637,816, published July 28, 1953. Class 44.

Chicago Carton Company: *See*—
United Biscuit Company of America.

Cocilana, Inc., Brooklyn, N. Y. Cough drops. 581,226, Oct. 20; Serial No. 628,922, published July 21, 1953. Class 18.

Cohen, Joseph H., & Sons, by Joseph H. Cohen & Sons, Inc., New York, N. Y. Clothing. 177,974, Jan. 1, 1924. Republished Oct. 20. Class 39.

Cohen, Joseph H., & Sons, Inc.: *See*—
Cohen, Joseph H., & Sons.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Toilet soap. 581,290, Oct. 20; Serial No. 637,479, published July 28, 1953. Class 52.

Columbia Machinery & Engineering Corp., Hamilton, Ohio. Power squaring shears, power press brakes, metal forming presses, etc. 581,227–8, Oct. 20; Serial Nos. 629,286–7, published Dec. 2, 1952. Class 23.

Community Drug Co., Inc., Arlington, Va., and at other locations, both within and without the state of Virginia. Aspirin, saccharine tablets, glycerine suppositories, etc. 581,172, Oct. 20; Serial No. 612,060, published July 21, 1953. Class 18.

Con-Cor Paint Company, Kansas City, Mo. Protective, heavy bodied oil base coating. 581,310, Oct. 20; Serial No. 638,793, published July 14, 1953. Class 16.

Congoleum-Nairn, Inc., Kearny, N. J. Cork and cork composition. 581,328, Oct. 20; Serial No. 639,742, published July 21, 1953. Class 1.

Consolidated Products Company, Danville, Ill. Prepared animal feed. 581,363, Oct. 20; Serial No. 643,537, published July 28, 1953. Class 46.

Continental Paper Grading Company, Chicago, Ill. Unwoven fabric made from all cotton fibres. 581,205, Oct. 20; Serial No. 626,343, published July 14, 1953. Class 1.

Crawford, A. & A., to A. & A. Crawford Limited, Leith, Scotland. Scotch whisky. 307,429, renewed Oct. 24, 1953. O. G. Oct. 20. Class 49.

Crawford, A. & A., Limited: *See*—
Crawford, A. & A.

Dan River Mills, Incorporated, Danville, Va. Reactive organic chemicals. 581,249, Oct. 20; Serial No. 632,158, published July 28, 1953. Class 6.

Davis Wholesale Drug Co., Inc., Baton Rouge, La. Liniment. 581,183, Oct. 20; Serial No. 619,803, published July 21, 1953. Class 18.

Demmel, E. K., Co. Inc., Paterson, N. J. Medicated bandages. 581,291, Oct. 20; Serial No. 637,704, published July 21, 1953. Class 18.

Densco, Incorporated, Denver, Colo. Dental handpieces. 581,364, Oct. 20; Serial No. 643,662, published July 28, 1953. Class 44.

Denton, Dr., Sleeping Garment Mills, to Denton Sleeping Garment Mills, Inc., Centerville, Mich. Sleeping garments. 306,150, renewed Sept. 12, 1953. O. G. Oct. 20. Class 39.

Denton Sleeping Garment Mills, Inc.: *See*—
Denton, Dr., Sleeping Garment Mills.

Denver Chemical Manufacturing Company, The, New York, N. Y. Medicated rub. 581,298, Oct. 20; Serial No. 637,988, published July 21, 1953. Class 18.

De Vorn Displays Corporation, Cleveland, Ohio. Portable breakdown shipping cases. 581,149, Oct. 20; Serial No. 576,960, published July 14, 1953. Class 2.

Dodd Chemical Co.: *See*—
Dodd Chemical Corporation.

Dodd Chemical Corporation, doing business as Dodd Chemical Co., Little Ferry, N. J. Lacquer surface protective coating compositions. 581,174, Oct. 20; Serial No. 612,993, published July 21, 1953. Class 16.

Dow Chemical Company, The, Midland, Mich. Dry cleaning solvent. 581,175, Oct. 20; Serial No. 613,870, published July 28, 1953. Class 52.

Dow Chemical Company, The, Midland, Mich. Aralkyl phenol mixture. 581,251, Oct. 20; Serial No. 632,355, published July 28, 1953. Class 6.

Dowser Electric Machinery Works, Inc., Mount Vernon, Ill. Rebuilding, rewinding, and repairing of electric motors and transformers for others. 581,390, Oct. 20; Serial No. 640,108, published July 14, 1953. Class 103.

Druce, J. B. Smith & Co.: *See*—
Nicholson, J. & W., & Co. Limited.

Du-Fast, Inc., New York, N. Y. Rubbing machines. 581,141, Oct. 20; Serial No. 557,912, published June 23, 1953. Class 23.

Elgin American Manufacturing Co., to Illinois Watch Case Co., Elgin, Ill. Pocket lighters. 304,727, renewed July 18, 1953. O. G. Oct. 20. Class 8.

Englander Company, Inc., The, Chicago, Ill. Mattresses. 581,159, Oct. 20; Serial No. 595,882, published Apr. 3, 1951. Class 32.

Esquire, Inc.: *See*—
Apparel Arts Publications, Inc.

Eutectic Welding Alloys Corporation, New York, N. Y. Preparation for removing slag residues from metal surfaces and for conditioning such metal surfaces. 581,272, Oct. 20; Serial No. 635,358, published July 21, 1953. Class 52.

Evans Bellhouse Limited, Manchester, England. Non-metallic protective packing cases. 581,229, Oct. 20; Serial No. 629,659, published July 14, 1953. Class 2.

Famous Artists Schools, Inc., New York, N. Y., by change of name from Institute of Commercial Art, Inc. Lessons, booklets, and brochures. 581,397, Oct. 20; Serial No. 598,255. Class 38.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Synthetic polyester elastomer. 581,292, Oct. 20; Serial No. 637,707, published July 21, 1953. Class 1.

Farbwerke Hoechst, vormals Meister Lucius & Brüning, Frankfort am Main, Hochst, Germany. Detergents. 581,267, Oct. 20; Serial No. 634,432, published July 21, 1953. Class 52.

Farfisa Societa Per Azione, Ancona, Italy. Accordions. 581,178, Oct. 20; Serial No. 617,238, published Nov. 13, 1951. Class 36.

Feedstuffs Processing Company, Oakland, Calif. Mineral supplement. 581,214, Oct. 20; Serial No. 626,939, published July 7, 1953. Class 18.

Felix Tempest Company: *See*—
Kerr, Dorothy K.

Ferber Corporation, Englewood, N. J. Ball point pens, fountain pens, mechanical pencils, etc. 581,318, Oct. 20; Serial No. 639,029, published June 16, 1953. Class 37.

Finch, H. G., Rocky Mount, N. C. Venetian blinds. 581,304, Oct. 20; Serial No. 638,293, published July 7, 1953. Class 32.

Fischer Baking Company, Newark, N. J. Bread. 306,891, renewed Oct. 3, 1953. O. G. Oct. 20. Class 46.

Fischer, J. & C., to Aeolian American Corporation, New York, N. Y. Grand and upright pianos. 94,364, renewed Dec. 2, 1953. O. G. Oct. 20. Class 36.

Foti, Adam M., Boston, Mass. Textile goods. 581,422, Oct. 20; Serial No. 638,074. Class 42.

Galvanic Products Corporation, Valley Stream, N. Y. Rectifier testers. 581,259, Oct. 20; Serial No. 633,614, published July 28, 1953. Class 26.

Garlock Packing Company, The, Palmyra, N. Y. Mechanical packings and mechanical packing materials. 581,360, Oct. 20; Serial No. 642,541, published July 28, 1953. Class 35.

Gellich Leather Company, Taunton, Mass. Leather. 581,283–7, Oct. 20; Serial Nos. 636,887–91, published July 21, 1953. Class 1.

General Time Corporation: *See*—
Western Clock Co.

General Tire & Rubber Company, The, Akron, Ohio. Chemicals and chemical mixtures, solutions, and dispersions. 581,368, Oct. 20; Serial No. 644,232, published July 28, 1953. Class 6.

Germain Seed & Paint Company, to Germain's, Inc., Los Angeles, Calif. Flower and vegetable seeds. 306,355, renewed Sept. 19, 1953. O. G. Oct. 20. Class 1.

Germain's, Inc.: *See*—
Germain Seed & Plant Company.

Giddings & Lewis Machine Tool Company, Fond du Lac, Wis. Plastic injection molding machines, rotary tables, boring tools, etc. 581,176, Oct. 20; Serial No. 614,385, published May 26, 1953. Class 23.

Gilbert, A. C., Company, The: *See*—
Richter, Friedrich A.

Gilbert, A. C., Company, The, New Haven, Conn. Hand held electrical appliances. 581,144, Oct. 20; Serial Nos. 565,770–1, published July 28, 1953. Class 21.

Globe-Wernicke Co., The, Cincinnati, Ohio. Steel desks, steel tables, steel costumers, etc. 581,158, Oct. 20; Serial No. 590,151, published July 7, 1953. Class 32.

Goerlich's, Toledo, Ohio. Mufflers for use with internal combustion engines and extensions for tail pipes. 581,250, Oct. 20; Serial No. 632,207, published Feb. 3, 1953. Class 23.

Goldtone Razor Blade Co., Inc., Newark, N. J. Razor blades. 581,152, Oct. 20; Serial No. 583,433, published July 7, 1953. Class 23.

Graham-Field Surgical Co., New York, N. Y. Therapeutic thermometers, crutches, etc. 581,156, Oct. 20; Serial No. 589,442, published July 28, 1953. Class 44.

Granitize Products Co.: *See*—
Groves, Harold L.

Great Lakes Carbon Corporation, New York, N. Y. Light weight siliceous powdered and granular materials. 581,256–7, Oct. 20; Serial Nos. 632,814–15, published July 21, 1953. Class 1.

Grills, Leo J., Broward County Air Port, Fla., assignor to United Specialties Company, Chicago, Ill. Hair driers. 581,335, Oct. 20; Serial No. 640,513, published July 28, 1953. Class 44.

Groves, Harold L., doing business as Granitize Products Co., South Gate, Calif. Polishing compound. 581,281, Oct. 20; Serial No. 636,593, published July 28, 1953. Class 4.

Gulf States Paper Corporation, Tuscaloosa, Ala. Wrapping paper and butchers' paper. 581,163, Oct. 20; Serial No. 603,233, published May 26, 1953. Class 37.

Gusmer, A., Inc., Hoboken, N. J. Pitch, pitch-like goods. 581,195, Oct. 20; Serial No. 623,276, published July 14, 1953. Class 1.

Guy, Joseph, Quincy, Mass. Plastic foot pads. 581,349, Oct. 20; Serial No. 641,723, published July 28, 1953. Class 44.

H. Maihak Aktiengesellschaft, Hamburg, Germany. Apparatus for analyzing gases and repair parts therefor. 581,302, Oct. 20; Serial No. 638,204, published May 19, 1953. Class 26.

Hair Do Company, The, Chicago, Ill. Hair lacquer. 581,361, Oct. 20; Serial No. 642,545, published July 28, 1953. Class 51.

Halligan, Mary A., doing business as Halligan Tool Company, New York, N. Y. Forcible entry tool. 581,359, Oct. 20; Serial No. 642,468, published June 30, 1953. Class 23.

Halligan Tool Company: *See*—
Halligan, Mary A.

Hamman, Edith M., doing business as Hilo House, Chicago, Ill. Fruit cake. 581,409, Oct. 20; Serial No. 621,145. Class 46.

Harriman, Alfred E., doing business as Harriman Products Co., Los Angeles, Calif. General cleaning preparation. 581,232, Oct. 20; Serial No. 630,007, published July 21, 1953. Class 52.

Harriman Products Co.: *See*—
Harriman, Alfred E.

Hart & Cooley Manufacturing Co., Holland, Mich. Germicide and antiseptic. 581,199, Oct. 20; Serial No. 624,135, published July 21, 1953. Class 18.

Hawley & Hoops, Inc., East Boston, Boston, Mass. Candies. 581,208, Oct. 20; Serial No. 626,083, published Sept. 23, 1952. Class 46.

Hempel's, J. C., Skibsfarvefabrik A/S, Copenhagen, Denmark. Ready mixed and anti-corrosive paints. 581,230, Oct. 20; Serial No. 629,798, published July 14, 1953. Class 16.

Hercules Powder Company, Wilmington, Del. Cellulose gum. 581,288, Oct. 20; Serial No. 637,312, published July 7, 1953. Class 1.

Heritage Furniture, Inc., High Point, N. C. Furniture. 444,792, Oct. 20; Serial No. 497,309, published July 7, 1953. Class 32.

Hillyard Chemical Company, St. Joseph, Mo. Liquid detergent. 581,350, Oct. 20; Serial No. 641,778, published July 28, 1953. Class 52.

Hilo House: *See*—
Hamman, Edith M.

Histeen Corporation, The, Chicago, Ill., to The Kenton Pharmacal Co., Covington, Ky. Medical preparation. 309,265, renewed Jan. 9, 1954. O. G. Oct. 20. Class 18.

Hobbycraft Paint Company: *See*—
Preservative Paint Co.

Hollander, A., & Son, Inc., Newark, N. J. Dressing, dyeing, and blending of furs. 581,380, Oct. 20; Serial No. 588,299, published July 14, 1953. Class 106.

Holley Carburetor Company, Detroit, Mich. Carburetors, jet engine fuel controls, governors and parts thereof. 581,148, Oct. 20; Serial No. 576,208, published June 23, 1953. Class 23.

Horowitz, Charles, New York, N. Y. Leather. 581,184–5, Oct. 20; Serial Nos. 619,831–2, published July 21, 1953. Class 1.

Hotella, Albert Pick, Inc., Miami Beach, Fla. Restaurant services and providing lodgings for travelers. 581,385, Oct. 20; Serial No. 626,217, published July 7, 1953. Class 100.

Householder, Wilfred N., doing business as Householder's Prescription Pharmacy, Portland, Oreg. Hygienic powder. 581,247, Oct. 20; Serial No. 631,867, published July 28, 1953. Class 18.

Householder's Prescription Pharmacy: *See*—
Householder, Wilfred N.

Hudson, H. D., Manufacturing Company: *See*—
Miller, J. W., Co., The.

Hurlbut Paper Company, South Lee, Mass. Drawing paper. 581,173, Oct. 20; Serial No. 612,075, published May 26, 1953. Class 37.

Illinois Watch Case Co.: *See*—
Elgin American Manufacturing Co.

Indian Trail Ranch, Inc., West Palm Beach, Fla. Agricultural materials—namely, grasses, weeds, etc. 581,277, Oct. 20; Serial No. 635,477, published July 7, 1953. Class 1.

Industrial Soap Company, St. Louis, Mo. Cleaning composition. 581,273, Oct. 20; Serial No. 635,418, published July 28, 1953. Class 52.

Ing. C. Olivetti & C. S. p. A., Ivrea, Italy. Calculating machines and parts thereof. 581,197, Oct. 20; Serial No. 623,961, published May 26, 1953. Class 26.

Inland Steel Company: *See*—
Red Top Steel Post Company.

Institute of Commercial Art, Inc.: *See*—
Famous Artists Schools, Inc.

Insulation Manufacturing Company, Inc., Brooklyn, N. Y. Molded plastic tops for tables, desks and counters. 581,193, Oct. 20; Serial No. 623,193, published July 7, 1953. Class 32.

International Harvester Company, Chicago, Ill. Refrigeration packaging products—namely, plastic film and cellophane bags. 581,151, Oct. 20; Serial No. 581,959, published July 14, 1953. Class 2.

International Minerals & Chemical Corporation, Chicago, Ill. Portion cost calculator. 581,306, Oct. 20; Serial No. 638,362, published May 19, 1953. Class 26.

International Paint Company, Inc., New York, N. Y. Ready mixed paints. 581,167, Oct. 20; Serial No. 605,794, published July 14, 1953. Class 16.

International Silver Company, The, Meriden, Conn. Stainless steel flatware. 581,255, Oct. 20; Serial No. 632,786, published July 7, 1953. Class 23.

Iron Fireman Manufacturing Company: *See*—
Petroleum Heat and Power Company.

Jeffrey Manufacturing Company, The, Columbus, Ohio. Chain sprockets. 581,245, Oct. 20; Serial No. 631,557, published June 30, 1953. Class 23.

Jergens, Andrew, Company, The: *See*—
Woodbury, John H., Inc.

K & L Drug Company: *See*—
Kornfield, Sanford.

Kated Company, New York, N. Y. Entertainment service. 581,386, Oct. 20; Serial No. 627,192, published July 14, 1953. Class 107.

Kaye Thermometer Corporation, Brooklyn, N. Y. Clinical thermometers. 581,330, Oct. 20; Serial No. 639,885, published July 28, 1953. Class 44.

Kehr Paper Products Co., Philadelphia, Pa. Wrapping paper. 581,266, Oct. 20; Serial No. 634,372, published June 16, 1953. Class 37.

Kentile, Inc., Brooklyn, N. Y. Asphalt primer coatings. 581,320, Oct. 20; Serial No. 639,178, published July 14, 1953. Class 16.

Kenton Pharmacal Co., The: *See*—
Histeen Corporation, The.

Kenyon Piece Dyeworks, Inc., The, Kenyon, R. I. Dyeing and printing piece goods. 581,387, Oct. 20; Serial No. 632,989, published July 14, 1953. Class 106.

Kepec Chemical Corporation, Milwaukee, Wis. Compositions, for use as leather dressings and leather polishes, etc. 581,201, Oct. 20; Serial No. 624,274, published July 21, 1953. Class 4.

Kern & Co. Ltd., Aarau, Switzerland. Photographic objective lenses with filters. 581,346, Oct. 20; Serial No. 641,513, published July 21, 1953. Class 26.

Kern & Co. Ltd., Aarau, Switzerland. Binoculars. 581,347, Oct. 20; Serial No. 641,514, published July 21, 1953. Class 26.

Kern & Co. Ltd., Aarau, Switzerland. Binoculars, telescopes, objective lenses. 581,348, Oct. 20; Serial No. 641,515, published July 21, 1953. Class 26.

Kerr, Dorothy K., doing business as Felix Tempest Company, Brooklyn, N. Y. Medicated salve. 309,379, renewed Jan. 9, 1954. O. G. Oct. 20. Class 51.

Kiekhaefer Corporation, Cedarburg, Wis. Outboard motors and parts thereof. 581,142–3, Oct. 20; Serial Nos. 563,258–9, published May 19, 1953. Class 23.

Kingsley-Erb and Company, Arcadia, Calif. Preparation for inhibiting scours, colds, and pneumonia in calves. 581,410, Oct. 20; Serial No. 621,210. Class 18.

Koch Supplies: *See*—
Starr, Raymond H.

Kornfield, Sanford, doing business under the name and style of K & L Drug Company, Oakland, Calif. Vaginal suppositories. 581,215, Oct. 20; Serial No. 627,266, published July 7, 1953. Class 18.

Kretzer, P., & Son, Inc., Flushing, N. Y. Constructing and repairing industrial and residential buildings. 581,383, Oct. 20; Serial No. 624,089, published July 14, 1953. Class 103.

Kuppenheimer, B., & Co., Inc., Chicago, Ill. Men's and boys' ready to wear coats, vests, trousers, etc. 308,773, renewed Dec. 19, 1953. O. G. Oct. 20. Class 39.

Lanair Company, Chicago, Ill. Sanitary napkins. 293,707, renewed May 3, 1952. O. G. Oct. 20. Class 44.

Lane, Arthur F., Ridgewood, N. J. Chlorophyll toothpaste and ammoniated chlorophyll tooth-paste. 581,351, Oct. 20; Serial No. 641,785, published July 28, 1953. Class 51.

Larus & Brother Company, Richmond, Va. Smoking tobacco. 581,189, Oct. 20; Serial No. 620,809, published July 7, 1953. Class 17.

Lauson Company, The, New Holstein, Wis. Internal combustion engines and parts therefor. 581,355–6, Oct. 20; Serial No. 642,079–80, published June 30, 1953. Class 23.

Lawson, E. P., Co., Inc., New York, N. Y. Paper cutting machinery and parts thereof, etc. 581,396, Oct. 20; Serial No. 597,617. Class 23.

Levinson, Stanley, doing business as Stanley Levinson Co., Los Angeles, Calif. Fresh vegetables and fresh deciduous fruits. 435,913, Jan. 13, 1948. Republished Oct. 20. Class 46.

Levinson, Stanley Co.: *See*—
Levinson, Stanley.

Libby, Arthur W., doing business under the name of Two Rivers Poultry Farms, Steep Falls, Maine. Hatching eggs and live baby chicks. 581,279, Oct. 20; Serial No. 638,132, published July 7, 1953. Class 1.

Lindemann, A. J., & Hoverson Company, Milwaukee, Wis. Electric ranges, and electric water heaters. 581,220, Oct. 20; Serial No. 627,585, published July 28, 1953. Class 21.

Lord Baltimore Press, The, Baltimore, Md. Boxes and cartons. 418,100, Dec. 4, 1945. Republished Oct. 20. Class 2.

Lorie: *See*—
Rexall Drug Company.

Lubraa Oil Corporation, Brooklyn, N. Y. Upper motor lubricants. 306,920, Oct. 3, 1933. Republished Oct. 20. Class 15.

Lustberg, Nast & Co., Inc., New York, N. Y. Men's, women's, and boys' jackets. 418,567, Jan. 1, 1946. Republished Oct. 20. Class 39.

MacKay, Kenneth H., doing business as Steady Manufacturing Company, Ocala, Fla. Small paper boxes and paper holders. 581,321, Oct. 20; Serial No. 639,229, published July 14, 1953. Class 2.

Macy, R. H., & Co., Inc., New York, N. Y., assignee of L. Bamberger & Co. Clothing. 581,394, Oct. 20; Serial No. 549,331. Class 39.

Make-It Snow, Inc., assignor to Boyle-Midway Inc., New York, N. Y. Pressure propelled paint. 581,188, Oct. 20; Serial No. 620,784, published July 14, 1953. Class 16.

Manufacture de Machines du Haut-Rhin, Mulhouse-Bourtzwil'er (Haut-Rhin), France. Machine tools. 581,187, Oct. 20; Serial No. 620,738, published June 23, 1953. Class 23.

Marathon Corporation, Menasha, Wis. Modified carbohydrate compounds. 581,373, Oct. 20; Serial No. 644,675, published July 28, 1953. Class 6.

Martin Fabrics Corporation: *See*—
Martin, J. B., Company.

Martin, J. B., Company, Norwich, Conn., to Martin Fabrics Corporation, New York, N. Y. Velvet. 305,751, renewed Aug. 22, 1953. O. G. Oct. 20. Class 42.

Martin, J. B., Company, Norwich, Conn., to Martin Fabrics Corporation, New York, N. Y. Velvet in the piece. 306,559, renewed Sept. 26, 1953. O. G. Oct. 20. Class 42.

Mathieson Alkali Works, Inc., The, New York, N. Y., to Mathieson Chemical Corporation, Baltimore, Md. Specially prepared fused soda ash to be used for water-softening purposes. 307,508, renewed Oct. 24, 1953. O. G. Oct. 20. Class 6.

Mathieson Chemical Corporation: *See*—
Mathieson Alkali Works, Inc., The.

Mathieson Chemical Corporation, Baltimore, Md. Ethylene oxide, ethylene glycol, diethylene glycol, etc. 581,374, Oct. 20; Serial No. 644,678, published July 28, 1953. Class 6.

May, Milton B., Oklahoma City, Okla. Combined gift certificate and greeting card. 581,280, Oct. 20; Serial No. 636,570, published June 16, 1953. Class 37.

McLean, Dr. J. H., Medicine Company, The, St. Louis, Mo. Oil liniment. 91,890–1, June 3, 1913. Republished Oct. 20. Class 18.

McLean, Dr. J. H., Medicine Company, The, St. Louis, Mo. Medicines, preparations, compounds, etc. 91,986, June 10, 1913. Republished Oct. 20. Class 18.

McMath, John N., doing business as The Angel Skin Co., Larchmont, to Pond's Extract Company, New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 309,287, renewed Jan. 9, 1954. O. G. Oct. 20. Class 51.

McPherson, John E., & Sons, to John E. McPherson & Sons Limited, Newcastle-upon-Tyne, England. Whisky. 306,488, renewed Sept. 19, 1953. O. G. Oct. 20. Class 49.

McPherson, John E., & Sons Limited: *See*—
McPherson, John E., & Sons.

Medical Specialties, Inc., Rochester, Minn. Composition for mitigating nausea. 581,168, Oct. 20; Serial No. 607,227, published July 21, 1953. Class 18.

Merrill Company, The, San Francisco, Calif. Engineering services. 581,378–9, Oct. 20; Serial Nos. 582,844–5, published Nov. 4, 1952. Class 100.

Meyer Chemical Company, Detroit, Mich. Preparation for use in conditions of adrenal insufficiency. 581,162, Oct. 20; Serial No. 600,841, published May 27, 1952. Class 18.

Michigan Alkali Company, to Wyandotte Chemicals Corporation, Wyandotte, Mich. Coke. 304,816, renewed July 18, 1953. O. G. Oct. 20. Class 1.

Midwest Dental Manufacturing Co.: *See*—
Staunt, Martin.

Midwest Processing Company, Pampa, Tex. Paraffin solvent. 581,371, Oct. 20; Serial No. 644,431, published July 28, 1953. Class 6.

Miller, J. W., Co., The, Mill-Hook Farm, near Freeport, to H. D. Hudson Manufacturing Company, Chicago, Ill. Incubators and brooders. 40,420, re-renewed May 19, 1953. O. G. Oct. 20. Class 50.

Milwhite Company, Inc., The, Houston, Tex. Materials for use in making drilling muds, namely, sawdust, etc. 581,217, Oct. 20; Serial No. 627,347, published July 14, 1953. Class 1.

Mineral-Ite Corp., Brigantine, N. J. Self-hardening plastic-surfacing composition for exterior and interior walls. 581,165, Oct. 20; Serial No. 604,312, published June 23, 1953. Class 12.

Minnesota Mining and Manufacturing Company, St. Paul, Minn. Adhesive. 581,352, Oct. 20; Serial No. 641,854, published July 28, 1953. Class 5.

Minnesota Mining and Manufacturing Company, St. Paul, Minn. Chemical composition. 581,367, Oct. 20; Serial No. 644,185, published July 28, 1953. Class 6.

Minnesota Rubber and Gasket Co., St. Louis Park, Minn. Seal rings. 581,372, Oct. 20; Serial No. 644,561, published July 28, 1953. Class 35.

Mobile Paint Mfg. Co., Inc., Mobile, Ala. Exterior paint. 581,354, Oct. 20; Serial No. 642,042, published July 21, 1953. Class 16.

Mock, Judson, Voehringer Co., Inc., to Mojud Hosiery Company, Inc., Long Island City, N. Y. Hosiery. 305,698, renewed Aug. 22, 1953. O. G. Oct. 20. Class 39.

Mojud Hosiery Company, Inc.: *See*—
Mock, Judson, Voehringer Co., Inc.

Moore Business Forms, Inc.: *See*—
Pacific Manifolding Book Company.

Morris, Mark L., Topeka, Kans. Periodical. 581,424, Oct. 20; Serial No. 639,767. Class 38.

Morse Sewing Machine and Supply Corp., New York, N. Y. Sewing machines. 581,404, Oct. 20; Serial No. 617,967. Class 23.

Mountain Folks Remedy Company, Forsyth, Mo. Medical preparation. 581,400, Oct. 20; Serial No. 610,291. Class 18.

Moylan, W. Staunton, Philadelphia, Pa. Zipper lubricating device. 581,166, Oct. 20; Serial No. 605,111, published June 23, 1953. Class 23.

Mutual Garment Company, to Wonder Maid, Inc., St. Louis, Mo. Women's wearing apparel. 309,159, renewed Jan. 2, 1954. O. G. Oct. 20. Class 39.

Nashua Corporation: *See*—
Nashua Gummed and Coated Paper Company.

Nashua Gummed and Coated Paper Company, Nashua, N. H., now by change of name, Nashua Corporation. Electric-motor driven and electrically controlled machines. 581,210, Oct. 20; Serial No. 626,402, published July 28, 1953. Class 21.

National Skee-Ball Company, Inc., Brooklyn, N. Y., by Philadelphia Toboggan Company, Philadelphia, Pa. Game. 304,883, July 18, 1933. Republished Oct. 20. Class 22.

Nepera Chemical Co., Inc., Nepera Park, N. Y. Nasal and aerosol preparation. 581,293, Oct. 20; Serial No. 637,785, published July 21, 1953. Class 18.

Nepera Chemical Co., Inc., Nepera Park, N. Y. Antihistaminic, analgesic and antipyretic composition. 581,333, Oct. 20; Serial No. 640,353, published July 21, 1953. Class 18.

Newall, S. A., & Sons, London, England, to S. A. Newall & Sons, Limited, London, England, and Stornoway, Scotland. Cloths and stuffs of wool, worsted, hair, etc. 306,260, renewed Sept. 12, 1953. O. G. Oct. 20. Class 42.

Newall, S. A., & Sons Limited: *See*—
Newall, S. A., & Sons.

Newark Pattern Works, assignor to Shell-O-Matic, Inc., Newark, N. J. Mold making machinery. 581,241, Oct. 20; Serial No. 630,901, published June 16, 1953. Class 23.

Nicholson File Company, Providence, R. I. Files and rasps. 306,242, renewed Sept. 12, 1953. O. G. Oct. 20. Class 23.

Nicholson, J. & W., & Co. Limited, doing business as J. S. Smith Druce & Co., London, England. Gin and other potable distilled liquors. 305,799, renewed Aug. 22, 1953. O. G. Oct. 20. Class 49.

Nordberg Manufacturing Company, Milwaukee, Wis. Gasoline marine engines. 581,246, Oct. 20; Serial No. 631,754, published Jan. 20, 1953. Class 23.

Notter, Conrad C.: *See*
Reiss, Dr. Rudolf.
Nuo Dex Products Co., Inc., Elizabeth, N. J. Catalyzer. 581,274, Oct. 20; Serial No. 635,426, published July 28, 1953. Class 6.
Nyhan, Vince B., doing business as Vince B. Nyhan Co., Chicago, Ill. Chemical. 581,278, Oct. 20; Serial No. 635,846, published July 28, 1953. Class 6.
Nyhan, Vince B., Co.: *See*—
Nyhan, Vince B.
O P W Corporation, Cincinnati, Ohio. Hose and faucet adapters and couplers and hose coupler handles. 581,406, Oct. 20; Serial No. 618,649. Class 13.
Oculine Company, Inc., The, Beverly Hills, Calif. Medicinal preparations. 581,203, Oct. 20; Serial No. 624,497, published July 21, 1953. Class 18.
Oldbury Electro-Chemical Company, Niagara Falls, N. Y. Phosphorus compounds, chlorates, perchlorates, etc. 581,366, Oct. 20; Serial No. 644,056, published July 28, 1953. Class 6.
Oulman, Theodore D., doing business under the assumed name of Pronto Sales, Portland, Oreg. Numbering machines and date stamps. 581,243, Oct. 20; Serial No. 631,020, published June 23, 1953. Class 23.
Pacific Machine Mfg. Co., Portland, Oreg. Garden cultivating tractors. 581,303, Oct. 20; Serial No. 638,213, published May 12, 1953. Class 23.
Pacific Manifolding Book Company, Emeryville, Calif., to Moore Business Forms, Inc., Niagara Falls, N. Y. Paper and stationery. 302,371, renewed Apr. 18, 1953. O. G. Oct. 20. Class 37.
Packaging Materials Corp., Providence, R. I. Corrugated paper board. 581,211–13. Oct. 20; Serial No. 626,816, published June 16, 1953. Class 37.
Panray Corp., The, New York, N. Y. Drugs and tablets. 581,161. Oct. 20; Serial No. 600,444, published June 30, 1953. Class 18.
Parfums Charbert Inc., New York, N. Y. Perfumes, cologne, lotion, etc. 581,401, Oct. 20; Serial No. 610,798. Class 51.
Patch, E. L., Company, The, Stoneham, Mass. Medicinal preparation. 581,171, Oct. 20; Serial No. 612,031, published July 21, 1953. Class 18.
Penny Spot Company, Midland, Mich. Spot removing preparations. 581,248, Oct. 20; Serial No. 631,889, published July 28, 1953. Class 52.
Petroleum Heat and Power Company, New York, N. Y., by Iron Fireman Manufacturing Company, Cleveland, Ohio. Petroleum oil burners. 231,207, Aug. 16, 1927. Republished Oct. 20. Class 34.
Phelan, George W., Union City, N. J. Dental abrasive disc holders and dispensers. 581,237, Oct. 20; Serial No. 630,437, published July 14, 1953. Class 44.
Philadelphia Toboggan Company: *See*—
National Skee-Ball Company, Inc.
Photoptic Import Corp., New York, N. Y. Photographic cameras and accessories. 581,339–40, Oct. 20; Serial Nos. 640,959–60, published July 28, 1953. Class 26.
Picker X-Ray Corporation, New York, N. Y. Tablets for internal administration which are used as a dye in cholecystography. 581,260, Oct. 20; Serial No. 633,628, published July 21, 1953. Class 18.
Pittsburgh Consolidation Coal Company, Pittsburgh, Pa. Coal. 581,289, Oct. 20; Serial No. 637,461, published July 7, 1953. Class 1.
Plas-Kem Corporation, Burbank, Calif. Plastic coating. 581,342, Oct. 20; Serial No. 641,206, published July 7, 1953. Class 16.
Pollock Paper Corporation, Dallas, Tex. Waxed paper, transparent paper, and wrapping paper. 581,181, Oct. 20; Serial No. 619,358, published June 2, 1953. Class 37.
Pond's Extract Company: *See*—
McMath, John N.
Popular Mechanics Company, Chicago, Ill. Magazine. 581,417, Oct. 20; Serial No. 632,325. Class 38.
Powdered Metal Products Corporation of America, Franklin Park, Ill. Gear housings, rack slides, spline gears, etc. 581,153, Oct. 20; Serial No. 583,709, published May 26, 1953. Class 23.
Preservative Paint Co., doing business as Hobbycraft Paint Company, Seattle, Wash. Dry and ready-mixed paints, paint enamel, and varnish. 581,341, Oct. 20; Serial No. 640,961, published July 21, 1953. Class 16.
Progressive Products, assignor to Progressive Products, Inc., La Mesa, Calif. Anti-thumb sucking device. 581,234, Oct. 20; Serial No. 630,284, published July 21, 1953. Class 44.
Progressive Products, Inc., assignee: *See*—
Progressive Products.
Pronto Sales: *See*—
Oulman, Theodore D.
Propper Manufacturing Company, Inc., Long Island City, N. Y. Wound clips. 581,325, Oct. 20; Serial No. 639,657, published July 28, 1953. Class 44.
Publicker Commercial Alcohol Company, by Publicker Industries Inc., Philadelphia, Pa. Anti-freeze compounds. 303,311, May 23, 1933. Republished Oct. 20. Class 6.
Publicker Industries Inc.: *See*—
Publicker Commercial Alcohol Company.
Pure Oil Company, The, Chicago, Ill. Chemically treated polishing cloth, chrome polish, and cleaner and polish, etc. 581,164, Oct. 20; Serial No. 604,227, published July 28, 1953. Class 4.
Quaker Pacific Rubber Company, San Francisco, Calif. Fire hose, water hose, packing material. 581,358, Oct. 20; Serial No. 642,303, published July 28, 1953. Class 35.
Raleigh Haberdasher, Inc., Washington, D. C. Men's suits, overcoats, and topcoats. 304,928, July 25, 1933. Republished Oct. 20. Class 39.
Ransburg, Harper J., Co., Inc., Indianapolis, Ind. Metal receptacles. 581,154, Oct. 20; Serial No. 587,562, published July 14, 1953. Class 2.
Rarollite Chemical Co. Inc., Raritan, N. J. Resin adhesives. 581,265, Oct. 20; Serial No. 634,340, published July 28, 1953. Class 5.
Raymond, Fred L., Chicago, Ill. Thermostatically-controlled, pressure-operated instruments. 581,224, Oct. 20; Serial No. 628,507, published May 12, 1953. Class 26.
Red Top Steel Post Company, to Inland Steel Company, Chicago, Ill. Metal fencing. 305,033, renewed July 25, 1953. O. G. Oct. 20. Class 13.
Reiss, Dr. Rudolf, Chemische Werke: *See*—
Reiss, Dr. Rudolf, Rheumasan- und Lenicetfabrik.
Reiss, Dr. Rudolf, Rheumasan- und Lenicet-Fabrik, Berlin-Charlottenburg, to C. C. Notter, doing business as Dr. Rudolf Reiss Chemische Werke, Berlin, Germany. Dietetical foods. 305,714, renewed Aug. 22, 1953. O. G. Oct. 20. Class 18.
Rejafix Limited, London, England. Printing and marking inks. 581,263, Oct. 20; Serial No. 634,001, published July 14, 1953. Class 11.
Republic Steel Corporation: *See*—
Steel and Tubes, Inc.
Rexall Drug Company, doing business as Lorie, Los Angeles, Calif. Bath oil. 581,415, Oct. 20; Serial No. 631,438. Class 51.
Richardson Company, The, Cincinnati, Ohio. Composition panel board. 305,563, Aug. 22, 1933. Republished Oct. 20. Class 12.
Richter, Friedrich A., Rudolstadt, Germany, and New York, N. Y., by The A. C. Gilbert Company, New Haven, Conn. Toy building blocks, toy houses and parts thereof. 59,818, Jan. 15, 1907. Republished Oct. 20. Class 22.
Rothmans Limited, also trading as Weinberg & Company, London, England. Cigarettes, cigars and smoking tobacco. 581,271, Oct. 20; Serial No. 634,920, published July 7, 1953. Class 17.
Rowntree and Company Limited, London, England. Candy lozenges containing medicaments. 581,309, Oct. 20; Serial No. 638,738, published July 21, 1953. Class 18.
Rumpp, C. F., & Sons, Philadelphia, Pa. Personal leather goods. 581,405, Oct. 20; Serial No. 618,244. Class 3.
Russell, Matthew, doing business as X-Termador Company, Springfield, Mass. Electrically operated apparatus. 305,325, renewed Aug. 15, 1953. O. G. Oct. 20. Class 21.
Sachs Quality Stores, Inc., New York, N. Y. Bedroom furniture, living-room furniture, dining-room furniture, etc. 581,155, Oct. 20; Serial No. 589,045, published July 14, 1953. Class 32.
Salerno-Megowen Biscuit Company, Chicago, Ill. Cookies. 581,147, Oct. 20; Serial No. 573,897. published Mar. 18, 1952. Class 46.
Sales Affiliates, Inc., New York, N. Y. Hair waving lotion. 581,194, Oct. 20; Serial No. 623,259, published July 28, 1953. Class 51.
Schmetz Needle Corporation, New York, N. Y. Sewing machine needles. 581,198, Oct. 20; Serial No. 624,053, published June 23, 1953. Class 23.
Scour-Tex Proprietary Limited, Melbourne, Victoria, Australia. Pads and mops of abrasive materials, etc. 581,192, Oct. 20; Serial No. 622,779, published July 14, 1953. Class 4.
Seneca Coal & Iron Corporation, New York, N. Y. Coal and coke. 581,307, Oct. 20; Serial No. 638,497, published June 23, 1953. Class 1.
Serta Associates, Inc., Wilmington, Del., and Chicago, Ill. Mattresses. 581,262, Oct. 20; Serial No. 633,879, published July 14, 1953. Class 32.
Sewing Machines Sales Corp., New York, N. Y. Sewing machines. 581,420, Oct. 20; Serial No. 637,290. Class 23.
Shelden-Cole, Inc., Rockford, Ill. Synthetic resinous soil conditioning agents. 581,258, Oct. 20; Serial No. 633,334, published July 28, 1953. Class 10.
Shell-O-Matic, Inc., assignee: *See*—
Newark Pattern Works.
Sherwin-Williams Company, The, Cleveland, Ohio. Sealer for metal surfaces in the nature of a paint. 581,343, Oct. 20; Serial No. 641,339, published July 14, 1953. Class 16.
Shuron Optical Company, Inc., Geneva, N. Y. Bridges for ophthalmic mountings. 581,314–17, Oct. 20; Serial Nos. 638,918–22, published June 2, 1953. Class 26.
Siemens-Planiawerke A. G. fur Kohlefabrikate, Berlin-Lichtenberg, to Siemens-Planiawerke A. G. fur Kohlefabrikate, Meitingen, Germany. Asbestos, clay, silica, etc. 301,716, renewed Mar. 14, 1953. O. G. Oct. 20. Class 1.
Sigma Phi Epsilon Fraternity, Richmond, Va. Recruiting and pledging prospective members of the chapters of a national collegiate fraternity. 581,393, Oct. 20; Serial No. 598,045, published July 21, 1953. Class 100.

Sign-Riter, Inc., Buffalo, N. Y. Combination brush and ink set. 581,403, Oct. 20; Serial No. 617,354. Class 50.
Sil-oo-ette Systems, Inc.: *See*—
Slenderella Systems, Inc.
Silva & Cosens, Limited, London, England. Port wine. 307,392, renewed Oct. 24, 1953. O. G. Oct. 20. Class 47.
Silver Seal Dairy Products Company, to Sylvan Seal Milk, Inc., Philadelphia, Pa. Dairy products. 305,229, renewed Aug. 8, 1953. O. G. Oct. 20. Class 46.
Slenderella Systems, Inc., Chicago, Ill., New York, N. Y., and Washington, D. C., formerly Sil-oo-ette Systems, Inc. Preparation for the treatment of obesity or useful in weight control. 581,180, Oct. 20; Serial No. 618,864, published July 21, 1953. Class 18.
Smith, Lee S., & Son Manufacturing Company, Pittsburgh, Pa., and Chicago, Ill. Dental cement. 581,311, Oct. 20; Serial No. 638,874, published July 28, 1953. Class 44.
Smith, Lee S., & Son Manufacturing Company, Pittsburgh, Pa., and Chicago, Ill. Dental impression material. 581,312, Oct. 20; Serial No. 638,876, published July 28, 1953. Class 44.
Sociedad Anonima F. Krauch & Co.: *See*—
Sociedad Anonima F. Krauch & Co., Societe Anonyme.
Sociedad Anonima F. Krauch & Co., Societe Anonyme, Antwerp, Belgium, to Sociedad Anonima F. Krauch & Co., Asuncion, Paraguay. Essence of petits grains, all kinds of essences and oils for making perfumery, etc. 91,914, re-renewed June 3, 1953. O. G. Oct. 20. Class 51.
Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Synthetic plastic material. 581,190, Oct. 20; Serial No. 621,790, published July 14, 1953. Class 1.
Societe Anonyme Societe Universelle de Produits Chimiques et d'Explosifs, The, Paris, France. Products and compositions which will emit and liberate oxygen. 581,252, Oct. 20; Serial No. 632,699, published July 28, 1953. Class 6.
Societe Le Carbone Lorraine, Paris, France. Carbon gland rings, carbon linings and inserts, and carbon packing rings. 581,305, Oct. 20; Serial No. 638,331, published July 28, 1953. Class 35.
Soil-Tone Corporation, Plymouth, N. C. Fertilizer. 581,362, Oct. 20; Serial No. 642,701, published July 28, 1953. Class 10.
Sonneborn, L., Sons, Inc., New York, N. Y. Solution for rendering concrete constructions abrasion-proof, etc. 94,123, Nov. 4, 1913. Republished Oct. 20. Class 6.
Spencer, Julie R., Denver, Colo. Spectacles for viewing television. 581,345, Oct. 20; Serial No. 641,473, published July 21, 1953. Class 26.
Staley Milling Company, North Kansas City, Mo. Dog food. 581,408, Oct. 20; Serial No. 621,108. Class 46.
Star Woolen Co., Cohoes, N. Y. Crimped nylon batting. 581,299, Oct. 20; Serial No. 638,019, published July 14, 1953. Class 1.
Starr, Raymond H., doing business as Koch Supplies, Kansas City, Mo. Preparation to kill rats. 581,357, Oct. 20; Serial No. 642,245, published July 28, 1953. Class 6.
Statler Mfg. Co., Chicago, Ill. Transparent plastic wallet inserts. 581,414, Oct. 20; Serial No. 629,533. Class 3.
Staunt, Martin, doing business as Midwest Dental Manufacturing Co., Chicago, Ill. Dental hand pieces. 581,337, Oct. 20; Serial No. 640,709, published July 28, 1953. Class 44.
Steady Manufacturing Company: *See*—
MacKay, Kenneth H.
Steel Service, Inc., Steubenville, Ohio. Metal clothes cabinets or lockers. 581,236, Oct. 20; Serial No. 630,358, published July 7, 1953. Class 32.
Steel and Tubes, Inc., to Republic Steel Corporation, Cleveland, Ohio. Electrically welded pipe, conduit and tubing, etc. 308,660, renewed Dec. 12, 1953. O. G. Oct. 20. Class 13.
Stensgaard, W. L., and Associates, Inc., Chicago, Ill. Sheets formed of ground wood or other wood particles, etc. 581,223, Oct. 20; Serial No. 627,906, published July 14, 1953. Class 1.
Stern Brothers, New York, N. Y. Umbrellas, parasols, and canes. 581,324, Oct. 20; Serial No. 639,522, published June 9, 1953. Class 41.
Strauss, B. M. & J., Limited, London, England. Rhine wine. 308,330, renewed Nov. 28, 1953. O. G. Oct. 20. Class 47.
Strauss, B. M. & J., Limited, London, England. Still and sparkling Rhine and Moselle wine. 308,331, renewed Nov. 28, 1953. O. G. Oct. 20. Class 47.
Strauss, B. M. & J., Limited, London, England. Port wine. 308,562, renewed Dec. 12, 1953. O. G. Oct. 20. Class 47.
Superior Piston Ring Company, Inc., Detroit, Mich. Oil rings. 306,934, renewed Oct. 3, 1953. O. G. Oct. 20. Class 35.
Sylvan Seal Milk, Inc.: *See*—
Silver Seal Dairy Products Company.
Tanquary, Elmer A., doing business as Allan & Co., Kansas City, Mo. Vitamin B complex syrup. 384,182, Jan. 7, 1941. Republished Oct. 20. Class 18.
Taylor Forge & Pipe Works, Cicero, Ill. Metal pipe and pipe fittings. 305,161, renewed Aug. 8, 1953. O. G. Oct. 20. Class 13.
Taylor Instrument Companies, Rochester, N. Y. Automatic controllers for controlling temperature, etc. 581,179, Oct. 20; Serial No. 618,063, published May 26, 1953. Class 26.
Temple Lab Inc., Brooklyn, N. Y. Automobile seats of slat construction adapted to be placed over the regular seat and bed mats of slat construction adapted to be placed over the regular mattress. 581,239, Oct. 20; Serial No. 630,737, published July 14, 1953. Class 32.
Thornton, Maude M., Buffalo, N. Y. Catamenial napkins. 581,377, Oct. 20; Serial No. 646,242, published July 28, 1953. Class 44.
Toro Manufacturing Corporation of Minnesota, Minneapolis, Minn. Tractors. 581,233, Oct. 20; Serial No. 630,229, published Nov. 18, 1952. Class 23.
Tura, Inc., New York, N. Y. Spectacles and spectacle frames. 581,169, Oct. 20; Serial No. 609,263, published July 14, 1953. Class 26.
Two Rivers Poultry Farms: *See*—
Libby, Arthur W.
Underwood Corporation, New York, N. Y. Carbon paper. 581,200, Oct. 20; Serial No. 624,250, published July 21, 1953. Class 11.
Union Bag & Paper Corporation, New York, N. Y. Water and weather proof paper. 581,326, Oct. 20; Serial No. 639,677, published June 30, 1953. Class 37.
Union Fork and Hoe Company, The, Columbus, Ohio. Hand operated tools. 581,301, Oct. 20; Serial No. 638,111, published May 12, 1953. Class 23.
Union Metal Manufacturing Company, The, Canton, Ohio. Drop bottom materials handling stacking boxes. 581,177, Oct. 20; Serial No. 615,954, published July 14, 1953. Class 2.
United Biscuit Company of America, doing business under the style name of Chicago Carton Company, Chicago, Ill. Collapsible display and holding racks. 581,261, Oct. 20; Serial No. 633,687, published July 14, 1953. Class 2.
United Merchants and Manufacturers, Inc., New York, N. Y. Finishing of textile fabrics. 581,382, Oct. 20; Serial No. 612,775, published July 14, 1953. Class 106.
United Specialties Company: *See*—
Grills, Leo J.
U. S. Electrical Motors, Inc., Los Angeles, Calif. Oil lubricated gear transmission mechanisms. 581,235, Oct. 20; Serial No. 630,290, published June 30, 1953. Class 23.
United States Radium Corporation, New York, N. Y. Self-luminous material. 581,294, Oct. 20; Serial No. 637,802, published July 28, 1953. Class 6.
Vaporized Metal Coatings, Inc., New York, N. Y. Metal coated paper. 581,253, Oct. 20; Serial No. 632,703, published May 26, 1953. Class 37.
Vitro Corporation of America, New York, N. Y. Magnetic induction flowmeters. 581,338, Oct. 20; Serial No. 640,825, published July 28, 1953. Class 26.
Von Ruden Manufacturing Co., Claremont, Minn. Hydraulic chain saws. 581,222, Oct. 20; Serial No. 627,724, published July 7, 1953. Class 23.
Wall-Rogalsky Milling Company, The, McPherson, Kans. Self-rising flour. 305,147, renewed Aug. 8, 1953. O. G. Oct. 20. Class 46.
Wander, Dr. A., A-G., Berne, Switzerland, by The Wander Company, Chicago, Ill. Food drink. 93,630, Oct. 7, 1913. Republished Oct. 20. Class 46.
Wander Company, The: *See*—
Wander, Dr. A., A-G.
Waukee Engineering Company, Milwaukee, Wis. Flow meters used in measuring the flow of gases. 581,344, Oct. 20; Serial No. 641,362, published July 21, 1953. Class 26.
Weinberg & Company: *See*—
Rothmans Limited.
West Disinfecting Company: *See*—
West Disinfecting Co.
West Disinfecting Co., New York, to West Disinfecting Company, Long Island City, N. Y. Disinfectants. 40,795, re-renewed July 21, 1953. O. G. Oct. 20. Class 6.
West Disinfecting Company, Long Island City, N. Y. Portable vaporizers. 439,419, June 22, 1948. Republished Oct. 20. Class 23.
Western Clock Co., Peru, Ill., by General Time Corporation, New York, N. Y. Clocks and watches. 93,621, Sept. 30, 1913. Republished Oct. 20. Class 27.
Western Condensing Company, San Francisco, Calif. Vitamin A and a Vitamin D supplement. 581,160, Oct. 20; Serial No. 597,924, published July 21, 1953. Class 18.
White, Inc.: *See*—
White.
White, to White, Inc., New Haven, Conn. Men's hats. 305,619–21, renewed Aug. 22, 1953. O. G. Oct. 20. Class 39.
White, to White, Inc., New Haven, Conn. Men's hats. 305,625, renewed Aug. 22, 1953. O. G. Oct. 20. Class 39.
White, to White, Inc., New Haven, Conn. Men's hats. 305,630, renewed Aug. 22, 1953. O. G. Oct. 20. Class 39.
White, to White, Inc., New Haven, Conn. Men's hats. 307,283, renewed Oct. 24, 1953. O. G. Oct. 20. Class 39.
White, to White, Inc., New Haven, Conn. Men's hats. 307,494–5, renewed Oct. 24, 1953. O. G. Oct. 20. Class 39.

Whitinsville Spinning Ring Company, Whitinsville, Mass. Spinning and twister rings. 581,327, Oct. 20; Serial No. 639,683, published June 30, 1953. Class 23.
Wilfley, A. R., and Sons, Inc., Denver, Colo. Centrifugal pumps and parts thereof. 581,268–70, Oct. 20; Serial Nos. 634,672–4, published June 30, 1953. Class 23.
Wisconsin Tissue Mills, Menasha, Wis. Toilet tissue, paper napkins, paper tray covers and paper tablecloths. 581,275, Oct. 20; Serial No. 635,451, published June 2, 1953. Class 37.
Wolcott Company, The, Hartford, Conn. Cleaning compound. 581,418–19, Oct. 20; Serial Nos. 633,135–6. Class 52.
Women's Life Publications, Inc.: *See*—
Yourself Publications, Inc.
Wonder Maid, Inc.: *See*—
Mutual Garment Company.
Wood, G. H., and Company Limited, Etobicoke and Toronto, Ontario, Canada. Silver cleaner. 581,282, Oct. 20; Serial No. 636,826, published July 28, 1953. Class 52.
Woodbury, John H., Inc., to The Andrew Jergens Company, Cincinnati, Ohio. Toilet preparations. 305,543, renewed Aug. 22, 1953. O. G. Oct. 20. Class 51.
Woodbury, John H., Inc., to The Andrew Jergens Company, Cincinnati, Ohio. Toilet preparations. 305,546, renewed Aug. 22, 1953. O. G. Oct. 20. Class 51.
Wudel, Edmund J., doing business under the fictitious name and style of Edmund J. Wudel Mfg. Co., Los Angeles, Calif. Spark plug testing machines and combination spark plug cleaning and testing machines. 581,296, Oct. 20; Serial No. 637,899, published May 12, 1953. Class 26.
Wudel, Edmund J., Mfg. Co.: *See*—
Wudel, Edmund J.
Wyandotte Chemicals Corporation: *See*—
Michigan Alkali Company.
Wyandotte Chemicals Corporation, Wyandotte, Mich. Acidity stabilising compound. 581,365, Oct. 20; Serial No. 643,990, published July 28, 1953. Class 6.
Wyeth Incorporated, Philadelphia, Pa., assignor to American Home Products Corporation, New York, N. Y. Dibenzylethylenediamine dipenicillin. 581,297, Oct. 20; Serial No. 637,971, published Aug. 4, 1953. Class 18.
Wynn, Harold S., Pittsford, N. Y. Publication. 581,425, Oct. 20; Serial No. 642,446. Class 38.
X-Termador Company: *See*—
Russell, Matthew.
Yardley & Company Limited, London and Stratford, London, England. Toilet water. 581,353, Oct. 20; Serial No. 641,879, published July 28, 1953. Class 51.
Yogg and Company: *See*—
Yogg, Howell J.
Yogg, Howell J., doing business as Yogg and Company, Newark, N. J. Printed tabs. 581,395, Oct. 20; Serial No. 596,546. Class 38.
Yourself Publications, Inc., by Woman's Life Publications, Inc., New York, N. Y. Magazine. 397,102, Aug. 18, 1942. Republished Oct. 20. Class 38.
Zenith Radio Corporation, Chicago, Ill. Electrical hearing aids and parts thereof. 581,375, Oct. 20; Serial No. 644,705, published July 28, 1953. Class 44.
Zion Industries, Inc., Zion, Ill. Candles. 581,411, Oct. 20; Serial No. 621,243. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Agricultural materials—namely, grasses, weeds, etc. Indian Trail Ranch, Inc. 581,277, Oct. 20; Serial No. 635,477, published July 7, 1953.
Asbestos, clay, silica, etc. Siemens-Planiawerke A. G. fur Kohlefabrikate. 301,716, renewed Mar. 14, 1953. O. G. Oct. 20.
Cellulose gum. Hercules Powder Company. 581,288, Oct. 20; Serial No. 637,312, published July 7, 1953.
Chamois. Atlantic Sponge & Chamois Corporation. 581,207, Oct. 20; Serial No. 625,572, published July 21, 1953.
Coal. American Anthracite & Bituminous Coal Corporation. 581,319, Oct. 20; Serial No. 639,147, published July 7, 1953.
Coal. Pittsburgh Consolidation Coal Company. 581,289, Oct. 20; Serial No. 637,461, published July 7, 1953.
Coal and coke. Seneca Coal & Iron Corporation. 581,307, Oct. 20; Serial No. 638,497, published June 23, 1953.
Coke. Michigan Alkali Company. 304,816, renewed July 18, 1953. O. G. Oct. 20.
Cork and cork composition. Congoleum-Nairn, Inc. 581,328, Oct. 20; Serial No. 639,742, published July 21, 1953.
Crimped nylon batting. Star Woolen Co. 581,299, Oct. 20; Serial No. 638,019, published July 14, 1953.
Granular odor and moisture absorptive litter for animal pets. American Bildrok Company. 581,322, Oct. 20; Serial No. 639,402, published July 14, 1953.
Hatching eggs and live baby chicks. A. W. Libby. 581,279, Oct. 20; Serial No. 636,132, published July 7, 1953.
Leather. Geilich Leather Company. 581,283–7, Oct. 20; Serial Nos. 636,887–91, published July 21, 1953.
Leather. C. Horowitz. 581,184–5; Oct. 20; Serial Nos. 619,831–2, published July 21, 1953.
Light weight siliceous powdered and granular materials. Great Lakes Carbon Corporation. 581,256–7, Oct. 20; Serial Nos. 632,814–15, published July 21, 1953.
Limestone, Dry ground. Harry T. Campbell Sons' Corp. 581,336, Oct. 20; Serial No. 640,609, published July 21, 1953.
Materials for use in making drilling muds—namely, sawdust, etc. The Milwhite Company, Inc. 581,217, Oct. 20; Serial No. 627,347, published July 14, 1953.
Pitch, pitch-like goods. A. Gusmer, Inc. 581,195, Oct. 20; Serial No. 623,276, published July 14, 1953.
Seeds, Flower and vegetable. Germain Seed & Plant Company. 306,355, renewed Sept. 19, 1953. O. G. Oct. 20.
Sheets formed of ground wood or other wood particles, etc. W. L. Stensgaard and Associates, Inc. 581,223, Oct. 20; Serial No. 627,906, published July 14, 1953.
Synthetic plastic material. Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey. 581,190, Oct. 20; Serial No. 621,790, published July 14, 1953.
Synthetic polyester elastomer. Farbenfabriken Bayer. 581,292, Oct. 20; Serial No. 637,707, published July 21, 1953.
Unwoven fabric made from all cotton fibres. Continental Paper Grading Company. 581,205, Oct. 20; Serial No. 625,343, published July 14, 1953.

CLASS 2

Bags, Diaper, picnic bags, and food-carrying bags. The Apollo Company, Inc. 581,242, Oct. 20; Serial No. 630,917, published July 14, 1953.
Boxes and cartons. The Lord Baltimore Press. 418,100, Dec. 4, 1945. Republished Oct. 20.
Boxes, Drop bottom materials handling stacking. The Union Metal Manufacturing Company. 581,177, Oct. 20; Serial No. 615,954, published July 14, 1953.
Boxes, Small paper, and paper holders. K. H. MacKay. 581,321, Oct. 20; Serial No. 639,229, published July 14, 1953.
Cases, Non-metallic protective packing. Evans Bellhouse Limited. 581,229, Oct. 20; Serial No. 629,659, published July 14, 1953.
Cases, Portable breakdown shipping. De Vorn Displays Corporation. 581,149, Oct. 20; Serial No. 576,960, published July 14, 1953.
Racks, Collapsible display and holding. United Biscuit Company of America. 581,261, Oct. 20; Serial No. 633,687, published July 14, 1953.
Receptacles, Metal. Harper J. Ransburg Co., Inc. 581,154, Oct. 20; Serial No. 587,562, published July 14, 1953.
Refrigeration packaging products—namely, plastic film and cellophane bags. International Harvester Company. 581,151, Oct. 20; Serial No. 581,959, published July 14, 1953.

CLASS 3

Leather goods, Personal. C. F. Rumpp & Sons. 581,405, Oct. 20; Serial No. 618,244.
Wallet inserts, Transparent plastic. Statler Mfg. Co. 581,414, Oct. 20; Serial No. 629,533.

CLASS 4

Compositions, for use as leather dressings and leather polishes, etc. Kepec Chemical Corporation. 581,201, Oct. 20; Serial No. 624,274, published July 21, 1953.
Corrosion remover and brightener, aluminum alloy surface cleaner and fast acting brightener. Cee-Bee Chemical Co., Inc. 581,231, Oct. 20; Serial No. 629,836, published July 28, 1953.
Pads and mops of abrasive materials, etc. Scour-Tex Proprietary Limited. 581,192, Oct. 20; Serial No. 622,779, published July 14, 1953.
Polish and cleaner. The Black and Decker Manufacturing Company. 581,150, Oct. 20; Serial No. 581,166, published July 21, 1953.
Polishing cloth, Chemically treated, chrome polish, and cleaner and polish, etc. The Pure Oil Company. 581,164, Oct. 20; Serial No. 604,227, published July 28, 1953.
Polishing compound. H. L. Groves. 581,281, Oct. 20; Serial No. 636,593, published July 28, 1953.

CLASS 5

Adhesive. Minnesota Mining and Manufacturing Company. 581,352, Oct. 20; Serial No. 641,854, published July 28, 1953.

Adhesives, Resin. Rarolite Chemical Co. Inc. 581,265, Oct. 20; Serial No. 634,340, published July 28, 1953.
Paste, Core. The Buckeye Products Company. 581,423, Oct. 20; Serial No. 638,690.

CLASS 6

Acidity stabilizing compound. Wyandotte Chemicals Corporation. 581,365, Oct. 20; Serial No. 643,990, published July 28, 1953.
Anti-freeze compounds. Publicker Commercial Alcohol Company. 303,311, May 23, 1933. Republished Oct. 20.
Araikyl phenol mixture. The Dow Chemical Company. 581,251, Oct. 20; Serial No. 632,355, published July 28, 1953.
Catalyzer. Nuodex Products Co., Inc. 581,274, Oct. 20; Serial No. 635,426, published July 28, 1953.
Chemical. V. B. Nyhan. 581,278, Oct. 20; Serial No. 635,846, published July 28, 1953.
Chemical composition. Minnesota Mining and Manufacturing Company. 581,367, Oct. 20; Serial No. 644,185, published July 28, 1953.
Chemicals, Agricultural. Chapman Chemical Company. 581,370, Oct. 20; Serial No. 644,288, published July 28, 1953.
Chemicals and chemical mixtures, solutions, and dispersions. The General Tire & Rubber Company. 581,368, Oct. 20; Serial No. 644,232, published July 28, 1953.
Chemicals, Reactive organic. Dan River Mills, Incorporated. 581,249, Oct. 20; Serial No. 632,158, published July 28, 1953.
Deodorising preparations and moth crystals, Household. Better Brushes, Incorporated. 581,323, Oct. 20; Serial No. 639,411, published July 28, 1953.
Disinfectants. West Disinfecting Co. 40,795, re-renewed July 21, 1953. O. G. Oct. 20.
Ethylene oxide, ethylene glycol, diethylene glycol, etc. Mathieson Chemical Corporation. 581,374, Oct. 20; Serial No. 644,678, published July 28, 1953.
Modified carbohydrate compounds. Marathon Corporation. 581,373, Oct. 20; Serial No. 644,675, published July 28, 1953.
Moth destroyer and preventative. Cenol Company, Inc. 581,244, Oct. 20; Serial No. 631,466, published July 28, 1953.
Organic chemical. Allied Chemical & Dye Corporation. 581,238, Oct. 20; Serial No. 630,563, published July 28, 1953.
Paraffin solvent. Midwest Processing Company. 581,371, Oct. 20; Serial No. 644,431, published July 28, 1953.
Phosphorus compounds, chlorates, perchlorates, etc. Oldbury Electro-Chemical Company. 581,366, Oct. 20; Serial No. 644,056, published July 28, 1953.
Pigment. American Cyanamid Company. 581,313, Oct. 20; Serial No. 638,890, published July 28, 1953.
Preparation to kill rats. R. H. Starr. 581,357, Oct. 20; Serial No. 642,245, published July 28, 1953.
Products and compositions which will emit and liberate oxygen. The Societe Anonyme Societe Universelle De Produits Chimiques et d'Explosifs. 581,252, Oct. 20; Serial No. 632,699, published July 28, 1953.
Reinforcing agent for rubber and plastics, a suspending agent and thickening agent in various oils and water solutions. Godfrey L. Cabot, Inc. 581,369, Oct. 20; Serial No. 644,282, published July 28, 1953.
Self-luminous material. United States Radium Corporation. 581,294, Oct. 20; Serial No. 637,802, published July 28, 1953.
Soda ash to be used for water-softening purposes, Specially prepared fused. The Mathieson Alkali Works, Inc. 307,508, renewed Oct. 24, 1953. O. G. Oct. 20.
Solution for rendering concrete constructions abrasion-proof, etc. L. Sonneborn Sons, Inc. 94,123, Nov. 4, 1913. Republished Oct. 20.

CLASS 8

Lighters, Cigarette; cigarette cases; and smokers' pipes. The Cat Cay Realty Company, Limited. 581,329, Oct. 20; Serial No. 639,804, published July 14, 1953.
Lighters, Pocket. Elgin American Manufacturing Co. 304,727, renewed July 18, 1953. O. G. Oct. 20.

CLASS 10

Fertilizer. Soil-Tone Corporation. 581,362, Oct. 20; Serial No. 642,701, published July 28, 1953.
Soil conditioning agents, Synthetic resinous. Sheldon-Cole, Inc. 581,258, Oct. 20; Serial No. 633,334, published July 28, 1953.

CLASS 11

Carbon paper. Underwood Corporation. 581,200, Oct. 20; Serial No. 624,250, published July 21, 1953.
Inks, Printing and marking. Rejafix Limited. 581,263, Oct. 20; Serial No. 634,001, published July 14, 1953.

CLASS 12

Composition panel board. The Richardson Company. 305,563, Aug. 22, 1933. Republished Oct. 20.
Plastic-surfacing composition for exterior and interior walls, Self-hardening. Mineral-ite Corp. 581,165, Oct. 20; Serial No. 604,312, published June 23, 1953.

CLASS 13

Electrically welded pipe, conduit and tubing, etc. Steel and Tubes, Inc. 308,660, renewed Dec. 12, 1953. O. G. Oct. 20.
Hose and faucet adapters and couplers and hose coupler handles. O P W Corporation. 581,406, Oct. 20; Serial No. 618,649.
Hose sprinklers, Lawn and garden. A. M. Andrews Co. 581,427, Oct. 20; Serial No. 644,003.
Metal fencing. Red Top Steel Post Company. 305,033, renewed July 25, 1953. O. G. Oct. 20.
Metal fittings and couplings. Aeroquip Corporation. 581,407, Oct. 20; Serial No. 620,072.
Metal pipe and pipe fittings. Taylor Forge & Pipe Works. 305,161, renewed Aug. 8, 1953. O. G. Oct. 20.

CLASS 15

Lubricants, Upper motor. Lubras Oil Corporation. 306,920, Oct. 3, 1933. Republished Oct. 20.

CLASS 16

Coating compositions, Lacquer surface protective. Dodd Chemical Corporation. 581,174, Oct. 20; Serial No. 612,993, published July 21, 1953.
Coating compositions, Lacquer type. Abco, Inc. 581,170, Oct. 20; Serial No. 610,605, published July 14, 1953.
Coating material comprising a synthetic resin and a primer. The Atlas Mineral Products Company of Pennsylvania. 581,204, Oct. 20; Serial No. 624,588, published July 14, 1953.
Coating, Plastic. Plas-Kem Corporation. 581,342, Oct. 20; Serial No. 641,206, published July 7, 1953.
Coating, Protective, heavy bodied oil base. Con-Cor Paint Company. 581,310, Oct. 20; Serial No. 638,793, published July 14, 1953.
Coatings, Asphalt primer. Kentile, Inc. 581,320, Oct. 20; Serial No. 639,178, published July 14, 1953.
Enamels and varnishes, Synthetic. Bee Chemical Company. 581,182, Oct. 20; Serial No. 619,379, published July 14, 1953.
Paint, Exterior. Mobile Paint Mfg. Co., Inc. 581,354, Oct. 20; Serial No. 642,042, published July 21, 1953.
Paint, Pressure propelled. Make It Snow, Inc. 581,188, Oct. 20; Serial No. 620,784, published July 14, 1953.
Paints, Dry and ready-mixed, paint enamel, and varnish. Preservative Paint Co. 581,341, Oct. 20; Serial No. 640,961, published July 21, 1953.
Paints, Ready mixed. International Paint Company, Inc. 581,167, Oct. 20; Serial No. 605,794, published July 14, 1953.
Paints, Ready mixed and anti-corrosive. J. C. Hempel's Skibsfarvefabrik A/S. 581,230, Oct. 20; Serial No. 629,798, published July 14, 1953.
Sealer for metal surfaces in the nature of a paint. The Sherwin-Williams Company. 581,343, Oct. 20; Serial No. 641,339, published July 14, 1953.
Undercoatings, primer coatings, or like preparatory protective coatings, etc. S. J. Arnold Company. 581,191, Oct. 20; Serial No. 622,088, published July 14, 1953.

CLASS 17

Cigarettes, cigars and smoking tobacco. Rothmans Limited. 581,271, Oct. 20; Serial No. 634,920, published July 7, 1953.
Snuff, chewing and smoking tobacco, cigars, etc. Austria Tabakwerke Aktiengesellschaft vorm. Oesterreichische Tabakregie. 581,216, Oct. 20; Serial No. 627,312, published July 14, 1953.
Snuff, chewing and smoking tobacco, cigars, etc. Austria Tabakwerke Aktiengesellschaft vorm. Oesterreichische Tabakregie. 581,240, Oct. 20; Serial No. 630,868, published July 14, 1953.
Tobacco, Smoking. Larus & Brother Company. 581,189, Oct. 20; Serial No. 620,809, published July 7, 1953.

CLASS 18

Antihistaminic, analgesic and antipyretic composition. Nepera Chemical Co., Inc. 581,333, Oct. 20; Serial No. 640,353, published July 21, 1953.
Aspirin, saccharine tablets, glycerine suppositories, etc. Community Drug Co., Inc. 581,172, Oct. 20; Serial No. 612,060, published July 21, 1953.
Composition for mitigating nausea. Medical Specialties, Inc. 581,168, Oct. 20; Serial No. 607,227, published July 21, 1953.
Cough drops. Cocliana, Inc. 581,226, Oct. 20; Serial No. 628,922, published July 21, 1953.
Cough medicine. C. Arnold. 581,398, Oct. 20. Serial No. 600,562.
Dibenzylethylenediamine dipenicillin. Wyeth Incorporated. 581,297, Oct. 20; Serial No. 637,971, published Aug. 4, 1953.
Dietetical foods. Dr. Rudolf Reiss Rheumasan- und Lenicet-Fabrik. 305,714, renewed Aug. 22, 1953. O. G. Oct. 20.
Drugs and tablets. The Panray Corp. 581,161, Oct. 20; Serial No. 600,444, published June 30, 1953.
Germicide and antiseptic. Hart & Cooley Manufacturing Co. 581,199, Oct. 20; Serial No. 624,135, published July 21, 1953.
Hygienic powder. W. N. Householder. 581,247, Oct. 20; Serial No. 631,867, published July 28, 1953.

Liniment. Davis Wholesale Drug Co., Inc. 581,183, Oct. 20; Serial No. 619,803, published July 21, 1953.
Liniment, Oil. The Dr. J. H. McLean Medicine Company. 91,890–1, June 3, 1913. Republished Oct. 20.
Lozenges containing medicaments, Candy. Rowntree and Company Limited. 581,309, Oct. 20; Serial No. 638,738, published July 21, 1953.
Medical preparation. The Histeen Corporation. 309,265, renewed Jan. 9, 1954. O. G. Oct. 20.
Medical preparation. Mountain Folks Remedy Company. 581,400, Oct. 20; Serial No. 610,291.
Medicated bandages. E. K. Demmel Co., Inc. 581,291, Oct. 20; Serial No. 637,704, published July 21, 1953.
Medicated rub. The Denver Chemical Manufacturing Company. 581,298, Oct. 20; Serial No. 637,988, published July 21, 1953.
Medicinal preparation. Burroughs Wellcome & Co. (U. S. A.) Inc. 581,264, Oct. 20; Serial No. 634,030, published July 21, 1953.
Medicinal preparation. The E. L. Patch Company. 581,171, Oct. 20; Serial No. 612,031, published July 21, 1953.
Medicinal preparations. The Oculine Company, Inc. 581,203, Oct. 20; Serial No. 624,497, published July 21, 1953.
Medicines, preparations, compounds, etc. The Dr. J. H. McLean Medicine Company. 91,986, June 10, 1913. Republished Oct. 20.
Mineral supplement. Feedstuffs Processing Company. 581,214, Oct. 20; Serial No. 626,939, published July 7, 1953.
Nasal and aerosol preparation. Nepera Chemical Co., Inc. 581,293, Oct. 20; Serial No. 637,785, published July 21, 1953.
Pharmaceutical preparation. Allen & Hanburys Limited. 581,334, Oct. 20; Serial No. 640,371, published July 21, 1953.
Pharmaceutical preparations. Aktiebolaget Leo. 581,308, Oct. 20; Serial No. 638,681, published July 7, 1953.
Preparation for inhibiting scours, colds, and pneumonia in calves. Kingsley-Erb and Company. 581,410, Oct. 20; Serial No. 621,210.
Preparation for the treatment of obesity or useful in weight control. Slenderella Systems, Inc. 581,180, Oct. 20; Serial No. 618,864, published July 21, 1953.
Preparation for use in conditions of adrenal insufficiency. Meyer Chemical Company. 581,162, Oct. 20; Serial No. 600,841, published May 27, 1952.
Tablets for internal administration which are used as a dye in cholecystography. Picker X-Ray Corporation. 581,260, Oct. 20; Serial No. 633,628, published July 21, 1953.
Vaginal suppositories. S. Kornfield. 581,215, Oct. 20; Serial No. 627,266, published July 7, 1953.
Vitamin A and a Vitamin D supplement. Western Condensing Company. 581,160, Oct. 20; Serial No. 597,924, published July 21, 1953.
Vitamin B complex syrup. E. A. Tanquary. 384,182, Jan. 7, 1941. Republished Oct. 20.

CLASS 20

Linoleum, linoleum rugs, linoleum mats etc. Aldens, Inc. 581,254, Oct. 20; Serial No. 632,769, published July 14, 1953.

CLASS 21

Electric-motor driven and electrically control'ed machines. Nashua Gummed and Coated Paper Company. 581,210, Oct. 20; Serial No. 626,402, published July 28, 1953.
Electric ranges, and electric water heaters. A. J. Lindemann & Hoverson Company. 581,220, Oct. 20; Serial No. 627,585, published July 28, 1953.
Electrical appliances, Hand held. The A. C. Gilbert Company. 581,144–5, Oct. 20; Serial Nos. 565,770–1, published July 28, 1953.
Electrically operated apparatus. M. Russell. 305,325, renewed Aug. 15, 1953. O. G. Oct. 20.

CLASS 22

Game. National Skee-Ball Company, Inc. 304,883, July 18, 1933. Republished Oct. 20.
Toy building blocks, toy houses and parts thereof. F. A. Richter. 59,818, Jan. 15, 1907. Republished Oct. 20.

CLASS 23

Carburetors, jet engine fuel controls, governors and parts thereof. Holley Carburetor Company. 581,148, Oct. 20; Serial No. 576,208, published June 23, 1953.
Chain sprockets. The Jeffrey Manufacturing Company. 581,245, Oct. 20; Serial No. 631,557, published June 30, 1953.
Drilling engines, engine pumps, and parts, etc. Ajax Iron Works. 581,332, Oct. 20; Serial No. 640,318, published June 23, 1953.
Drills, drill b'anks, router bits, etc. Ace Drill Corporation. 581,157, Oct. 20; Serial No. 589,545, published May 19, 1953.
Files and rasps. Nicholson File Company. 306,242, renewed Sept. 12, 1953. O. G. Oct. 20.
Gasoline marine engines. Nordberg Manufacturing Company. 581,246, Oct. 20; Serial No. 631,754, published Jan. 20, 1953.
Gear housings, rack slides, spline gears, etc. Powdered Metal Products Corporation of America. 581,153, Oct. 20; Serial No. 583,709, published May 26, 1953.
Gear transmission mechanisms, Oil lubricated. U. S. Electrical Motors, Inc. 581,235, Oct. 20; Serial No. 630,290, published June 30, 1953.
Internal combustion engines and parts therefor. The Lauson Company. 581,335–6, Oct. 20; Serial Nos. 642,079–80, published June 30, 1953.
Machinery accessories, Coated abrasive grinding and polishing. Behr-Manning Corporation. 581,186, Oct. 20; Serial No. 620,488, published May 19, 1953.
Mold making machinery. Newark Pattern Works. 581,241, Oct. 20; Serial No. 630,901, published June 16, 1953.
Molding machines, Plastic injection, rotary tables, boring tools, etc. Giddings & Lewis Machine Tool Company. 581,176, Oct. 20; Serial No. 614,383, published May 26, 1953.
Mufflers for use with internal combustion engines and extensions for tail pipes. Goerlich's. 581,250, Oct. 20; Serial No. 632,207, published Feb. 3, 1953.
Numbering machines and date stamps. T. D. Oulman. 581,243, Oct. 20; Serial No. 631,020, published June 23, 1953.
Outboard motors and parts thereof. Kiekhaefer Corporation. 581,142–3, Oct. 20; Serial Nos. 563,258–9, published May 19, 1953.
Paper cutting machinery and parts thereof, etc. E. P. Lawson Co., Inc. 581,396, Oct. 20; Serial No. 597,617.
Pumps and parts thereof, Centrifugal. A. R. Wilfley and Sons, Inc. 581,268–70, Oct. 20; Serial Nos. 634,672–4, published June 30, 1953.
Razor blades. Goldtone Razor Blade Co., Inc. 581,152, Oct. 20; Serial No. 583,433, published July 7, 1953.
Right angle drive attachments for power drills, flexible disk sanders and polisher attachments for power drills, etc. W. J. Babcock. 581,225, Oct. 20; Serial No. 628,665, published May 12, 1953.
Rubbing machines. Du-Fast, Inc. 581,141, Oct. 20; Serial No. 557,912, published June 23, 1953.
Saws, Hydraulic chain. Von Ruden Manufacturing Co. 581,222, Oct. 20; Serial No. 627,724, published July 7, 1953.
Sewing machine needles. Schmetz Needle Corporation. 581,198, Oct. 20; Serial No. 624,053, published June 23, 1953.
Sewing machines. Morse Sewing Machine and Supply Corp. 581,404, Oct. 20; Serial No. 617,967.
Sewing machines. Sewing Machines Sales Corp. 581,420, Oct. 20; Serial No. 637,290.
Shears, Power squaring, power press brakes, metal forming presses, etc. Columbia Machinery & Engineering Corp. 581,227–8, Oct. 20; Serial Nos. 629,286–7, published Dec. 2, 1952.
Spinning and twister rings. Whitinsville Spinning Ring Company. 581,327, Oct. 20; Serial No. 639,683, published June 30, 1953.
Stainless steel flatware. The International Silver Company. 581,255, Oct. 20; Serial No. 632,786, published July 7, 1953.
Tool, Forcible entry. M. A. Halligan. 581,359, Oct. 20; Serial No. 642,468, published June 30, 1953.
Tools, Hand operated. The Union Fork and Hoe Company. 581,301, Oct. 20; Serial No. 638,111, published May 12, 1953.
Tools, Machine. Manufacture de Machines du Haut-Rhin. 581,187, Oct. 20; Serial No. 620,738, published June 23, 1953.
Tractors. Toro Manufacturing Corporation of Minnesota. 581,233, Oct. 20; Serial No. 630,299, published Nov. 18, 1952.
Tractors, Garden cultivating. Pacific Machine Mfg. Co. 581,303, Oct. 20; Serial No. 638,213, published May 12, 1953.
Vaporizers, Portable. West Disinfecting Company. 439,419, June 22, 1948. Republished Oct. 20.
Zipper lubricating device. W. S. Moylan. 581,166, Oct. 20; Serial No. 605,111, published June 23, 1953.

CLASS 26

Apparatus for analyzing gases and repair parts therefor. H. Maihak Aktiengesellschaft. 581,302, Oct. 20; Serial No. 638,204, published May 19, 1953.
Automatic controllers for controlling temperature, etc. Taylor Instrument Companies. 581,179, Oct. 20; Serial No. 618,063, published May 26, 1953.
Binoculars. Kern & Co. Ltd. 581,347, Oct. 20; Serial No. 641,514, published July 21, 1953.
Binoculars, telescopes, objective lenses. Kern & Co. Ltd. 581,348, Oct. 20; Serial No. 641,515, published July 21, 1953.
Bridges for ophthalmic mountings. Shuron Optical Company, Inc. 581,314–17, Oct. 20; Serial Nos. 638,918–22, published June 2, 1953.
Calculating machines and parts thereof. Ing. C. Olivetti & C. S. p. A. 581,197, Oct. 20; Serial No. 623,961, published May 26, 1953.
Calculator, Portion cost. International Minerals & Chemical Corporation. 581,306, Oct. 20; Serial No. 638,362, published May 19, 1953.

Cameras and accessories, Photographic. Photoptic Import Corp. 581,339–40, Oct. 20; Serial Nos. 640,959–60, published July 28, 1953.
Cameras, Motion picture. Bell & Howell Company. 581,196, Oct. 20; Serial No. 623,331, published May 26, 1953.
Control instruments employed to regulate heat output of combustion heating facilities such as stoves, heaters, etc. Bacharach Industrial Instrument Company. 578,980, Aug. 25, 1953. Corrected. O. G. Oct. 20.
Lenses with filters, Photographic objective. Kern & Co. Ltd. 581,346, Oct. 20; Serial No. 641,513, published July 21, 1953.
Magnetic induction flowmeters. Vitro Corporation of America. 581,338, Oct. 20; Serial No. 640,825, published July 28, 1953.
Meters used in measuring the flow of gases, Flow. Waukee Engineering Company. 581,344, Oct. 20; Serial No. 641,362, published July 21, 1953.
Rectifier testers. Galvanic Products Corporation. 581,259, Oct. 20; Serial No. 633,614, published July 28, 1953.
Routegraph instruments. Chartometer Company, Inc. 581,202, Oct. 20; Serial No. 624,467, published May 19, 1953.
Spark plug testing machines and combination spark plug cleaning and testing machines. E. J. Wudel. 581,296, Oct. 20; Serial No. 637,899, published May 12, 1953.
Spectacles and spectacle frames. Tura, Inc. 581,169, Oct. 20; Serial No. 609,263, published July 14, 1953.
Spectacles for viewing television. J. R. Spencer. 581,345, Oct. 20; Serial No. 641,473, published July 21, 1953.
Thermostatically-controlled, pressure-operated instruments. F. I. Raymond. 581,224, Oct. 20; Serial No. 628,507, published May 12, 1953.

CLASS 27

Clocks and watches. Western Clock Co. 93,621, Sept. 30, 1913. Republished Oct. 20.

CLASS 28

Jewelry, flatware and hollow ware, etc. A. A. Dragsted. 581,399, Oct. 20; Serial No. 603,829.

CLASS 32

Automobile seats of slat construction adapted to be placed over the regular seat and bed mats of slat construction adapted to be placed over the regular mattress. Temple Lab Inc. 581,239, Oct 20; Serial No. 630,737, published July 14, 1953.
Cabinets or lockers, Metal clothes. Steel Service, Inc. 581,236, Oct. 20; Serial No. 630,358, published July 7, 1953.
Desks, Steel, steel tables, steel costumers, etc. The Globe-Wernicke Co. 581,158, Oct. 20; Serial No. 590,151, published July 7, 1953.
Furniture. Heritage Furniture, Inc. 444,792, Oct. 20; Serial No. 497,309, published July 7, 1953.
Furniture, Bedroom, living-room furniture, dining-room furniture, etc. Sachs Quality Stores, Inc. 581,155, Oct. 20; Serial No. 589,045, published July 14, 1953.
Mattresses. The Englander Company, Inc. 581,159, Oct. 20; Serial No. 595,882, published Apr. 3, 1951.
Mattresses. Serta Associates, Inc. 581,262, Oct. 20; Serial No. 633,879, published July 14, 1953.
Mirrors, Wall and furniture. Carolina Mirror Corporation. 581,300, Oct. 20; Serial No. 638,062, published July 7, 1953.
Tops for tables, desks and counters, Molded plastic. Insulation Manufacturing Company, Inc. 581,198, Oct. 20; Serial No. 623,193, published July 7, 1953.
Venetian blinds. H. G. Finch. 581,304, Oct. 20; Serial No. 638,293, published July 7, 1953.

CLASS 34

Petroleum oil burners. Petroleum Heat and Power Company. 231,207, Aug. 16, 1927. Republished Oct. 20.

CLASS 35

Carbon gland rings, carbon linings and inserts, and carbon packing rings. Societe Le Carbone Lorraine. 581,305, Oct. 20; Serial No. 638,331, published July 28, 1953.
Hose, Fire, water hose, packing material. Quaker Pacific Rubber Company. 581,358, Oct. 20; Serial No. 642,303, published July 28, 1953.
Oil rings. Superior Piston Ring Company, Inc. 306,934, renewed Oct. 3, 1953. O. G. Oct. 20.
Packings, Mechanical, and mechanical packing materials. The Garlock Packing Company. 581,360, Oct. 20; Serial No. 642,541, published July 28, 1953.
Seal rings. Minnesota Rubber and Gasket Co. 581,372, Oct. 20; Serial No. 644,561, published July 28, 1953.

CLASS 36

Accordions. Farfisa Societa per Azione. 581,178, Oct. 20; Serial No. 617,238, published Nov. 13, 1951.
Pianos, Grand and upright. J. & C. Fischer. 94,364, renewed Dec. 2, 1953. O. G. Oct. 20.

CLASS 37

Gift certificate and greeting card, Combined. M. B. May. 581,280, Oct. 20; Serial No. 636,570, published June 16, 1953.
Index tab sets. Cel-U-Dex Corporation. 581,218, Oct. 20; Serial No. 627,490, published May 26, 1953.
Index tabs. Cel-U-Dex Corporation. 581,219, Oct. 20; Serial No. 627,492, published May 26, 1953.
Paper and stationery. Pacific Manifolding Book Company. 302,371, renewed Apr. 18, 1953. O. G. Oct. 20.
Paper board, Corrugated. Packaging Materials Corp. 581,211–13, Oct. 20; Serial Nos. 626,816–18, published June 16, 1953.
Paper, Drawing. Hurlbut Paper Company. 581,173, Oct. 20; Serial No. 612,075, published May 26, 1953.
Paper, Metal coated. Vaporized Metal Coatings, Inc. 581,253, Oct. 20; Serial No. 632,703, published May 26, 1953.
Paper, Newsprint, strawboard, one side bleached woodpulp board, etc. Bowater Paper Company, Inc. 581,221, Oct. 20; Serial No. 627,669, published June 2, 1953.
Paper, Water and weather proof. Union Bag & Paper Corporation. 581,326, Oct. 20; Serial No. 639,677, published June 30, 1953.
Paper, Waxed, transparent paper, and wrapping paper. Pollock Paper Corporation. 581,181, Oct. 20; Serial No. 619,358, published June 2, 1953.
Paper, Wrapping. Kehr Paper Products Co. 581,266, Oct. 20; Serial No. 634,372, published June 16, 1953.
Paper, Wrapping, and butchers' paper. Gulf States Paper Corporation. 581,163, Oct. 20; Serial No. 603,233, published May 26, 1953.
Pens, Ball point, fountain pens, mechanical pencils, etc. Ferber Corporation. 581,318, Oct. 20; Serial No. 639,029, published June 16, 1953.
Tissue, Toilet, paper napkins, paper tray covers, and paper tablecloths. Wisconsin Tissue Mills. 581,275, Oct. 20; Serial No. 635,451, published June 2, 1953.

CLASS 38

Cartoons, Newspaper. The Associated Press. 308,419, renewed Dec. 5, 1953. O. G. Oct. 20.
Lessons, booklets, and brochures. Famous Artists Schools, Inc. 581,397, Oct. 20; Serial No. 598,255.
Magazine, American Lumberman, Inc. 581,421, Oct. 20; Serial No. 637,741.
Magazine, Popular Mechanics Company. 581,417, Oct. 20; Serial No. 632,325.
Magazine, Yourself Publications, Inc. 397,102, Aug. 18, 1942. Republished Oct. 20.
Periodical. M. L. Morris. 581,424, Oct. 20; Serial No. 639,767.
Printed tabs. H. J. Yogg. 581,395, Oct. 20; Serial No. 596,546.
Publication, Apparel Arts Publications, Inc. 307,098, Oct. 17, 1933. Republished Oct. 20.
Publication. H. S. Wynn. 581,425, Oct. 20; Serial No. 642,446.

CLASS 39

Clothing. Joseph H. Cohen & Sons. 177,974, Jan. 1, 1924. Republished Oct. 20.
Clothing. R. H. Macy & Co., Inc. 581,394, Oct. 20; Serial No. 549,331.
Coats, vests, trousers, etc., Men's and boys' ready to wear. B. Kuppenheimer & Co., Inc. 308,773, renewed Dec. 19, 1953. O. G. Oct. 20.
Garments, Sleeping. Dr. Denton Sleeping Garment Mills. 306,150, renewed Sept. 12, 1953. O. G. Oct. 20.
Hats, Men's, White. 305,619–21, renewed Aug. 22, 1953. O. G. Oct. 20.
Hats, Men's, White. 305,625, renewed Aug. 22, 1953. O. G. Oct. 20.
Hats, Men's, White. 305,630, renewed Aug. 22, 1953. O. G. Oct. 20.
Hats, Men's, White. 307,283, renewed Oct. 24, 1953. O. G. Oct. 20.
Hats, Men's, White. 307,494–5, renewed Oct. 24, 1953. O. G. Oct. 20.
Hosiery. Mock, Judson, Voehringer Co., Inc. 305,698, renewed Aug. 22, 1953. O. G. Oct. 20.
Jackets, Men's, women's, and boys'. Lustberg, Nast & Co., Inc. 418,567, Jan. 1, 1946. Republished Oct. 20.
Suits, overcoats, and topcoats, Men's. Raleigh Haberdasher, Inc. 304,928, July 25, 1933. Republished Oct. 20.
Wearing apparel, Women's. Mutual Garment Company. 309,159, renewed Jan. 2, 1954. O. G. Oct. 20.

CLASS 41

Umbrellas. Brooks, Inc. 581,276, Oct. 20; Serial No. 635,460, published June 30, 1953.
Umbrellas, parasols, and canes. Stern Brothers. 581,324, Oct. 20; Serial No. 639,522, published June 9, 1953.

CLASS 42

Cloths and stuffs of wool, worsted, hair, etc. S. A. Newall & Sons. 306,260, renewed Sept. 12, 1953. O. G. Oct. 20.
Piece goods, Cotton, linen, and woolen, wool and cotton blankets, etc. Associated Merchandising Corporation. 308,932, renewed Dec. 26, 1953. O. G. Oct. 20.

Textile goods. A. M. Fotl. 581,422, Oct. 20; Serial No. 638,074.
Velvet. J. B. Martin Company. 305,751, renewed Aug. 22, 1953. O. G. Oct. 20.
Velvet in the piece. J. B. Martin Company. 306,559, renewed Sept. 26, 1953. O. G. Oct. 20.

CLASS 43

Yarns, Dress. Bishop's Mills Inc. 581,416, Oct. 20; Serial No. 632,146.

CLASS 44

Anti-thumb sucking device. Progressive Products. 581,234, Oct. 20; Serial No. 630,284, published July 21, 1953.
Blood donor set. Don Baxter, Inc. 581,209, Oct. 20; Serial No. 626,141, published June 30, 1953.
Catamenial napkins. M. M. Thornton. 581,377, Oct. 20; Serial No. 646,242, published July 28, 1953.
Container maintained under vacuum and a donor set for use therewith. Baxter Laboratories, Inc. 581,206, Oct. 20; Serial No. 625,393, published June 30, 1953.
Dental abrasive disc holders and dispensers. G. W. Phelan. 581,237, Oct. 20; Serial No. 630,437, published July 14, 1953.
Dental cement. Lee S. Smith & Son Manufacturing Company. 581,311, Oct. 20; Serial No. 638,874, published July 28, 1953.
Dental handpieces. Densco, Incorporated. 581,364, Oct. 20; Serial No. 643,662, published July 28, 1953.
Dental hand pieces. M. Staunt. 581,337, Oct. 20; Serial No. 640,709, published July 28, 1953.
Dental impression material. Lee S. Smith & Son Manufacturing Company. 581,312, Oct. 20; Serial No. 638,876, published July 28, 1953.
Dental products. T. H. Bernstein. 581,331, Oct. 20; Serial No. 639,980, published July 28, 1953.
Disposable venoclysis set. Abbott Laboratories. 581,376, Oct. 20; Serial No. 646,093, published July 28, 1953.
First aid kits. E. D. Bullard Company. 581,146, Oct. 20; Serial No. 567,944, published July 21, 1953.
Foot pads, Plastic. J. Guy. 581,349, Oct. 20; Serial No. 641,723, published July 28, 1953.
Hair driers. L. J. Grills. 581,335, Oct. 20; Serial No. 640,513, published July 28, 1953.
Hearing aids and parts thereof, Electrical. Zenith Radio Corporation. 581,375, Oct. 20; Serial No. 644,705, published July 28, 1953.
Sanitary napkins. Lanair Company. 293,707, renewed May 3, 1952. O. G. Oct. 20.
Therapeutic chest pads. J. E. Cheneweth. 581,295, Oct. 20; Serial No. 637,816, published July 28, 1953.
Thermometers, Clinical. Kaye Thermometer Corporation. 581,330, Oct. 20; Serial No. 639,885, published July 28, 1953.
Thermometers, Therapeutic, crutches, etc. Graham-Field Surgical Co. 581,156, Oct. 20; Serial No. 589,442, published July 28, 1953.
Wound clips. Propper Manufacturing Company, Inc. 581,325, Oct. 20; Serial No. 639,657, published July 28, 1953.

CLASS 46

Bread. Bon-Ton Bakeries Inc. 581,412, Oct. 20; Serial No. 625,517.
Bread. Fischer Baking Company. 306,891, renewed Oct. 3, 1953. O. G. Oct. 20.
Cake, Fruit. E. M. Hamman. 581,409, Oct. 20; Serial No. 621,145.
Candies. Hawley & Hoops, Inc. 581,208, Oct. 20; Serial No. 626,083, published Sept. 23, 1952.
Candies. Zion Industries, Inc. 581,411, Oct. 20; Serial No. 621,243.
Canned meats and canned puddings. Boston Canning Company Proprietary Limited. 581,402, Oct. 20; Serial No. 612,786.
Cookies. Salerno-Megowen Biscuit Company. 581,147, Oct. 20; Serial No. 573,897, published Mar. 18, 1952.
Dairy products. Silver Seal Dairy Products Company. 305,229, renewed Aug. 8, 1953. O. G. Oct. 20.
Feed, Prepared animal. Consolidated Products Company. 581,363, Oct. 20; Serial No. 643,537, published July 28, 1953.
Flour, Self-rising. The Wall-Rogalsky Milling Company. 305,147, renewed Aug. 8, 1953. O. G. Oct. 20.
Food, Dog. Staley Milling Company. 581,408, Oct. 20; Serial No. 621,108.
Food drink. Dr. A. Wander, A.-G. 93,650, Oct. 7, 1913. Republished Oct. 20.
Icings. H. C. Brill Company, Inc. 581,426, Oct. 20; Serial No. 643,888.
Shortening. The Best Foods, Inc. 308,612, renewed Dec. 12, 1953. O. G. Oct. 20.
Vegetables, Fresh, and fresh deciduous fruits. S. Levinson. 435,913, Jan. 13, 1948. Republished Oct. 20.

CLASS 47

Wine, Port. Silva & Cosens, Limited. 307,392, renewed Oct. 24, 1953. O. G. Oct. 20.
Wine, Port. B. M. & J. Strauss, Limited. 308,362, renewed Dec. 12, 1953. O. G. Oct. 20.
Wine, Rhine. B. M. & J. Strauss, Limited. 308,330, renewed Nov. 28, 1953. O. G. Oct. 20.
Wine, Still and sparkling Rhine and Moselle. B. M. & J. Strauss. 308,331, renewed Nov. 28, 1953. O. G. Oct. 20.

CLASS 49

Gin and other potable distilled liquors. J. & W. Nicholson & Co. Limited. 305,799, renewed Aug. 22, 1953. O. G. Oct. 20.
Whisky. John E. McPherson & Sons. 306,488, renewed Sept. 19, 1953. O. G. Oct. 20.
Whisky, Scotch. A. & A. Crawford. 307,429, renewed Oct. 24, 1953. O. G. Oct. 20.

CLASS 50

Brush and ink set, Combination. Sign-Riter, Inc. 581,403, Oct. 20; Serial No. 617,354.
Display rack, Advertising. Ad-O-Meter Corporation. 581,413, Oct. 20; Serial No. 628,138.
Incubators and brooders. The J. W. Miller Co. 40,420, re-renewed May 19, 1953. O. G. Oct. 20.

CLASS 51

Astringents, astringent cerates, bleach creams, etc. J. N. McMath. 309,287 renewed Jan. 9, 1954. O. G. Oct. 20.
Bath oil. Rexall Drug Company. 581,415, Oct. 20; Serial No. 631,438.
Chlorophyll tooth-paste and ammoniated chlorophyll tooth-paste. A. F. Lane. 581,351, Oct. 20; Serial No. 641,785, published July 28, 1953.
Essence of Petits grains, all kinds of essences and oils for making perfumery, etc. Sociedad Anonima F. Krauch & Co., Societe Anonyme. 91,914, re-renewed June 3, 1953. O. G. Oct. 20.
Hair lacquer. The Hair Do Company. 581,361, Oct. 20; Serial No. 642,545, published July 28, 1953.
Lotion, Hair waving. Sales Affiliates, Inc. 581,194, Oct. 20; Serial No. 623,259, published July 28, 1953.
Medicated salve. D. K. Kerr. 309,379, renewed Jan. 9, 1954. O. G. Oct. 20.
Perfumes, cologne, lotion, etc. Parfums Charbert Inc. 581,401, Oct. 20; Serial No. 610,798.
Toilet preparations. John H. Woodbury, Inc. 305,543, renewed Aug. 22, 1953. O. G. Oct. 20.
Toilet preparations. John H. Woodbury, Inc. 305,546, renewed Aug. 22, 1953. O. G. Oct. 20.
Toilet water. Yardley & Company Limited. 581,353, Oct. 20; Serial No. 641,879, published July 28, 1953.

CLASS 52

Cleaner, Silver. G. H. Wood and Company Limited. 581,282, Oct. 20; Serial No. 636,826, published July 28, 1953.
Cleaning composition. Industrial Soap Company. 581,273, Oct. 20; Serial No. 635,418, published July 28, 1953.
Cleaning compound. The Wolcott Company. 581,418–19, Oct. 20; Serial Nos. 633,135–6.
Cleaning preparation, General. A. E. Harriman. 581,232, Oct. 20; Serial No. 630,007, published July 21, 1953.
Detergent, Liquid. Hillyard Chemical Company. 581,350, Oct. 20; Serial No. 641,778, published July 28, 1953.
Detergents. Farbwerke Hoechst, vormals Meister Lucius & Brüning. 581,267, Oct. 20; Serial No. 634,432, published July 21, 1953.
Preparation for removing slag residues from metal surfaces and for conditioning such metal surfaces. Eutectic Welding Alloys Corporation. 581,272, Oct. 20; Serial No. 635,358, published July 21, 1953.
Soap, Toilet. Colgate-Palmolive-Peet Company. 581,290, Oct. 20; Serial No. 637,479, published July 28, 1953.
Solvent, Dry cleaning. The Dow Chemical Company. 581,175, Oct. 20; Serial No. 613,870, published July 28, 1953.
Spot removing preparations. Penny Spot Company. 581,248, Oct. 20; Serial No. 631,889, published July 28, 1953.

CLASS 100

Engineering services. The Merrill Company. 581,378–9, Oct. 20; Serial Nos. 582,844–5, published Nov. 4, 1952.
Recruiting and pledging prospective members of the chapters of a National Collegiate fraternity. Sigma Phi Epsilon Fraternity. 581,393, Oct. 20; Serial No. 598,045, published July 21, 1953.
Restaurant services and providing lodgings for travelers. Albert Pick Hotells, Inc. 581,395, Oct. 20; Serial No. 626,217, published July 7, 1953.

CLASS 101

Services rendered to insurance companies, etc. California Tax and Assessment Corporation of San Francisco. 581,381, Oct. 20; Serial No. 605,892, published July 7, 1953.

CLASS 103

Constructing and repairing industrial and residential buildings. P. Kretzer & Son, Inc. 581,383, Oct. 20; Serial No. 624,089, published July 14, 1953.
Rebuilding, rewinding, and repairing of electric motors and transformers for others. Dowser Electric Machinery Works, Inc. 581,390, Oct. 20; Serial No. 640,108, published July 14, 1953.

CLASS 106

Chemically treating plain goods of others to create a quilted effect on the goods in color. Associated Dye & Print Co. Inc. 581,388, Oct. 20; Serial No. 636,192, published July 14, 1953.

Dressing, dyeing, and blending of furs. A. Hollander & Son, Inc. 581,380, Oct. 20; Serial No. 588,299, published July 14, 1953.
Dyeing and printing piece goods. The Kenyon Piece Dyeworks, Inc. 581,387, Oct. 20; Serial No. 632,989, published July 14, 1953.
Finishing of textile fabrics. United Merchants and Manufacturers, Inc. 581,382, Oct. 20; Serial No. 612,775, published July 14, 1953.
Fireproofing canvas and fabrics. American Waterproofing Corp. 581,392, Oct. 20; Serial No. 640,996, published July 14, 1953.
Services rendered manufacturers of all kinds of fabrics. Bradford Dyeing Association (U. S. A.). 581,391, Oct. 20; Serial No. 640,492, published July 14, 1953.
Treating rayon and acetate suiting fabrics. R. W. Bates Piece Dye Works, Inc. 581,389, Oct. 20; Serial No. 637,698, published July 14, 1953.

CLASS 107

Entertainment service. S. O. Cannon. 581,384, Oct. 20; Serial No. 625,333, published July 14, 1953.
Entertainment service. Kated Company. 581,386, Oct. 20; Serial No. 627,192, published July 14, 1953.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 20TH DAY OF OCTOBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Deere & Company, assignee: *See*—
Lindeman, Jesse G.

Leblanc, Leon, Paris, France. Key mechanism for alto and bass clarinets. Re. 23,725, Oct. 20.

Lindeman, Jesse G., Yakima, Wash., assignor, by mesne assignments, to Deere & Company, Moline, Ill. Hydraulic tool supporting structure. Re. 23,726, Oct. 20.

LIST OF DESIGN PATENTEES

Abrahams, Howard, Arverne, and I. Ruina, New York, N. Y. Gift wrapping display package. 170,617, Oct. 20.

Adler, Samuel E., assignor to Admiral Corporation, Chicago, Ill. Radio cabinet. 170,618, Oct. 20.

Adler, Samuel E., assignor to Admiral Corporation, Chicago, Ill. Radio cabinet. 170,619, Oct. 20.

Adler, Samuel E., assignor to Admiral Corporation, Chicago, Ill. Combination clock and radio cabinet. 170,620, Oct. 20.

Admiral Corporation, assignee: *See*—
Adler, Samuel E.
Wilson, Lawrence H.

American Optical Company, assignee: *See*—
Bauer, Ralph J. T.

Angelus Engineering Corporation, assignee: *See*—
Mazzola, Ambrose.

Barringer, Henry M., Greensboro, N. C. Cedar chest or the like. 170,621, Oct. 20.

Bates Manufacturing Company, The, assignee: *See*—
Lang, William.

Bauer, Ralph J. T., New York, N. Y., assignor to American Optical Company, Southbridge, Mass. Spectacle frame or the like. 170,622, Oct. 20.

Belgard, Austin B., Evanston, Ill. Pair of spectacles. 170,623, Oct. 20.

Belgard, Austin B., Evanston, Ill. Pair of spectacles. 170,624, Oct. 20.

Bergman, Carl G., Highland Park, Mich. Coin bank. 170,625, Oct. 20.

Billig, Ralph B.: *See*—
Ziskin, Manuel S., and Billig.

Bonis Bros. Fur Machinery Corp., assignee: *See*—
Hodgman, Clare E.

Brown, Theodore E., Chicago, Ill. Rearview mirror. 170,626, Oct. 20.

Burlington Mills Corporation, assignee: *See*—
Maisch, Jacques E.

Caldwell, Louis P., and P. C. Wohlt, Independence, Mo. Desk tray for typists' accessories. 170,627, Oct. 20.

Capraro, Carmino, Providence, R. I., assignor to Uncas Manufacturing Company. Finger ring. 170,628, Oct. 20.

Charlton Company, Inc., assignee: *See*—
Spence, Edmund J.

Continental Art Company, assignee: *See*—
Frenzel, Edgar G.
Lindner, John W.

Davenport, Nicholas, Bronx, N. Y. Clothes tree or the like. 170,629, Oct. 20.

Dunlop Tire and Rubber Corporation, assignee: *See*—
Humphries, Walter.

Feinstein, Nathan, New York, N. Y. Textile fabric or similar article. 170,630, Oct. 20.

Feltner, Oscar G., Jr., Dallas, Tex. Wedding anniversary pin. 170,631, Oct. 20.

Ferman, Harry, Newark, N. J. Automobile fender guide. 170,632, Oct. 20.

Fitz Gerald, Haroid G., Los Angeles, Calif. Portable projector. 170,633, Oct. 20.

Frenzel, Edgar G., assignor to Continental Art Company, Chicago, Ill. Figurine. 170,634, Oct. 20.

Frenzel, Edgar G., assignor to Continental Art Company, Chicago, Ill. Figurine. 170,635, Oct. 20.

Gaccione, Samuel: *See*—
Tierney, Thomas V., and Gaccione.

Gastright, Frank A., Fort Lauderdale, Fla. Caddy cart. 170,636, Oct. 20.

General Electric Company, assignee: *See*—
Rowell, Ralph M., and Kerr.

Haman, Ralph W., Floosmoor, and C. V. Norby, assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Railway car body. 170,637, Oct. 20.

Hodgman, Clare E., Mamaroneck, assignor to Bonis Bros. Fur Machinery Corp., New York, N. Y. Fur sewing machine. 170,638, Oct. 20.

Hoffman, Edward J., Jr., Hathorne, Mass. Pouring can. 170,639, Oct. 20.

Humphries, Walter, Erdington, Birmingham, England, assignor to Dunlop Tire and Rubber Corporation, Buffalo, N. Y. Tire. 170,640, Oct. 20.

Kerr, Roger B.: *See*—
Rowell, Ralph M., and Kerr.

Kromex Corporation, assignee: *See*—
Ziskin, Manuel S., and Billig.

Lang, William, Verona, assignor to The Bates Manufacturing Company, Orange, N. J. List finder. 170,641, Oct. 20.

Langen, Ole H.: *See*—
Maxwell, Ira C., and Langen.

Lindberg, Albert W., Jr., Bayonne, N. J. Mailbox. 170,642, Oct. 20.

Lindberg, Albert W., Jr., Bayonne, N. J. Mailbox. 170,643, Oct. 20.

Lindner, John W., Milwaukee, Wis., assignor to Continental Art Company, Chicago, Ill. Figurine. 170,644, Oct. 20.

Logue, Floyd, Shelbyville, Ill. Block puzzle. 170,645, Oct. 20.

Maisch, Jacques E., New York, N. Y., assignor to Burlington Mills Corporation, Greensboro, N. C. Textile fabric or similar article. 170,646, Oct. 20.

Marcel Boucher et Cie., assignee: *See*—
Semensohn, Raymonde.

Maxwell, Ira C., and O. H. Langen, assignors to The Unipress Company, Incorporated, Minneapolis, Minn. Sleeve press. 170,647, Oct. 20.

Mazzola, Ambrose, assignor to Angelus Engineering Corporation, South Gate, Calif. Electric switch housing. 170,648, Oct. 20.

McKee, Milton G., Youngstown, Ohio. Merry-go-round for children. 170,649, Oct. 20.

McNine, Francis R., Bridgeport, Conn. Combined match dispenser and condiment holder. 170,650, Oct. 20.

Norby, Clarence V.: *See*—
Haman, Ralph W., and Norby.

Palczewski, Edward J., Philadelphia, Pa. Kit for physicians' and surgeons' supplies or similar article. 170,651, Oct. 20.

Palmeter, George R., Kentville, Nova Scotia, Canada. Cup or similar article. 170,652, Oct. 20.

Palmeter, George R., Kentville, Nova Scotia, Canada. Saucer or similar article. 170,653, Oct. 20.

Palmeter, George R., Kentville, Nova Scotia, Canada. Plate or similar article. 170,654, Oct. 20.

Powers, Arthur A., Sheridan, Wyo. Rolling pin holder or similar article. 170,659, Oct. 20.

Pullman-Standard Car Manufacturing Company, assignee: *See*—
Haman, Ralph W., and Norby.

Rauch, David, Lancaster, assignor to Van Brode Milling Co., Inc., Clinton, Mass. Container unit for disinfectants, deodorants, insecticides, and the like. 170,655, Oct. 20.

Rigney, Francis J., Jr., Tiburon, Calif. Game board. 170,656, Oct. 20.

Rosenbaum, Henry K., Jackson Heights, assignor to Waybell Mfg. Company, Inc., New York, N. Y. Combination bill and coin holder. 170,657, Oct. 20.

Ross, Lyall M., Balwyn, Victoria, Australia. Fruit bowl. 170,660, Oct. 20.

Rowell, Ralph M., Lynn, Mass., and R. B. Kerr, Jamestown, R. I., assignors to General Electric Company. Instrument case. 170,658, Oct. 20.

Ruina, Irving: *See*—
Abrahams, Howard, and Ruina.

Semensohn, Raymonde, assignor to Marcel Boucher et Cie., New York, N. Y. Brooch or similar article. 170,661, Oct. 20.

Seneca Glass Company, assignee: *See*—
Stenger, Louis W.

Simmons, Ruth D., Los Angeles, Calif. Manicure implement. 170,662, Oct. 20.
Smith, Byrle W., Chicago, Ill. Egg holder. 170,663, Oct. 20.
Spear, Howard F., Greenview, Ill. Bowling game device. 170,664, Oct. 20.
Spence, Edmund J., New York, N. Y., assignor to Charlton Company, Inc., Fitchburg, Mass. Combination sofa and bed. 170,665, Oct. 20.
Stenger, Louis W., assignor to Seneca Glass Company, Morgantown, W. Va. Glass. 170,666, Oct. 20.
Stonberg, Samuel, Philadelphia, Pa. Jewelry pendant or similar article. 170,667, Oct. 20.
Tierney, Thomas V., Belleville, and S. Gaccione, Nutley, N. J. Holder for sewing accessories. 170,668, Oct. 20.
Uncas Manufacturing Company, assignee: *See*—
Capraro, Carmino.
Unipress Company, Incorporated, The, assignee: *See*—
Maxwell, Ira C., and Langen.
Van Brode Milling Co., Inc., assignee: *See*—
Rauch, David.
Wagner, Edwin R., St. Louis, Mo. Manicure stand or similar article. 170,669, Oct. 20.
Waybell Mfg. Company, Inc., assignee: *See*—
Rosenbaum, Henry K.
Wieland, Louis A., Pittsburgh, Pa. Stand. 170,670, Oct. 20.
Wilson, Lawrence H., Grosse Pointe, Mich., assignor to Admiral Corporation, Chicago, Ill. Radio cabinet. 170,671, Oct. 20.
Wohlt, Philipp C.: *See*—
Caldwell, Louis P., and Wohlt.
Zalkind, Albert M., Arlington, Va. Folding table. 170,672, Oct. 20.
Ziskin, Manuel S., Mayfield Heights, and R. B. Billig, Willoughby, assignors to Kromex Corporation, Cleveland, Ohio. Paper towel and wax paper dispenser. 170,673, Oct. 20.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 20TH DAY OF OCTOBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

AB Svenska Fläktfabriken, assignee: *See*—
Broberg, Georg K. J.
Abbott, William B., Springfield Gardens, and P. Hilpman, Garden City, N. Y., assignors to Mergenthaler Linotype Company. Typographical distributing mechanism. 2,656,038, Oct. 20.
Abeles, Ernest A., assignor to Elfsmede, Inc., Worcester, Mass. Flocking machine. 2,655,895, Oct. 20.
Adamec, Gilbert: *See*—
Spero, Lila S., and Adamec.
Adams, Dale W., St. Francis, Kans. Connector for toy construction members. 2,655,761, Oct. 20.
Adams, Randolph P., University City, Mo. Making rubber stamps. 2,655,693, Oct. 20.
Addressograph-Multigraph Corporation, assignee: *See*—
Curtis, Franklin E.
Adler, Jack, St. Louis, Mo. Filing cabinet structure. 2,656,238, Oct. 20.
Agnew, John S., Toronto, Ontario, Canada. Flush control device for water tanks. 2,655,665, Oct. 20.
Agriculture, United States of America as represented by the Secretary of the, assignee: *See*—
Drake, George L., and Guthrie.
Air Preheater Corporation, The, assignee: *See*—
Hodson, Peter, and Lundstrom.
Holm, Sven, and Hammond.
Lyerly, Ray L., and Holm.
Aitchison, Robert B., Jackson Heights, N. Y., H. L. Hicks, Barre, Vt., and J. R. Craig, Wellesley, Mass., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Flame finishing of granite surfaces. 2,655,909, Oct. 20.
Aladdin Industries, Incorporated, assignee: *See*—
Berge, Godshalk.
Alamagny, Marcel A. C. Saint-Cloud, France. Automobile body having pivoted end sections. 2,656,214, Oct. 20.
Albany, Stanley J., Pasadena, Calif. Slat awning. 2,655,697, Oct. 20.
Albarranc, Adrien, Paris, France. Electric resistance welding tool. 2,656,440, Oct. 20.
Alcorn, Irwin W., Houston, Tex., assignor to The Pure Oil Company, Chicago, Ill. Floating storage tank. 2,655,888, Oct. 20.
Alexander, Peter P., Beverly, Mass. Recovering calcium from a mixture of calcium hydride and magnesium oxide. 2,656,268, Oct. 20.
Allen-Bradley Co., assignee: *See*—
Matthias, Lynn H., and Petersen.
Allen, Wallace T., Dearborn, assignor to Square D Company, Detroit, Mich. Circuit breaker. 2,656,437, Oct. 20.
Allied Chemical & Dye Corporation, assignee: *See*—
Joris, George G., and Griffin.
Allied Laboratories, Inc., assignee: *See*—
Faith, Herman E.
Allis-Chalmers Manufacturing Company, assignee. *See*—
Bues, Harvey A.
Buhr, August G.
Roubal, Alexander J.
Sealey, William C.
Alloway, David L., Attica, N. Y., assignor of one-half to R. Weatherby, St. John's, New Brunswick, Canada. Gantry and gate for starting race horses. 2,655,899, Oct. 20.
Ambrosino, John, Flushing, N. Y. Skirt hanger. 2,656,078, Oct. 20.
American Cyanamid Company, assignee: *See*—
Christmann, Ludwig J., and Houpt.
Kushner, Samuel.
Lindgren, Vincent V., and Cassaday.
Mackay, Johnstone S.
Marsh, Nat H.
Martino, Joseph F.
Padbury, John J.
Vingee, Raymond A., and Christmann.
American Hardware Corporation, The, assignee: *See*—
Fletcher, Irving J.
American Home Products Corporation, assignee: *See*—
Elias, William, and Merrion.
American Instrument Company, The, assignee: *See*—
Ohlheiser, Carlton E.
American Machine and Metals, Inc., assignee: *See*—
Buss, Benjamin A.
American Rock Wool Corp., assignee: *See*—
Smith, Gerald R.
American Steel Foundries, assignee: *See*—
Flesch, John E.
American Viscose Corporation, assignee: *See*—
Cox, Charles W., Donovan, and Frantz.
White, Ben E., Cushman, and Dukert.
Ames, Stanley R.: *See*—
Perkins, Joseph R., Jr., and Ames.
Ammen, Francis D., assignor to Kaynar Manufacturing Company, Los Angeles, Calif. Spring clamp. 2,655,927, Oct. 20.
Anderson, Harold, Lansing, Mich. Camp trailer. 2,656,213, Oct. 20.
Anderson, Vernon L., assignor of one-half to P. W. Christensen, Kansas City, Mo. Bowling ball grip structure. 2,656,188, Oct. 20.
Angelus Engineering Corporation, assignee: *See*—
Mazzola, Ambrose.
Anglo-Iranian Oil Company Limited, assignee: *See*—
Porter, Frederick W. B., and Haresnape.
Anness, Russell W., assignor to The Gardner Board and Carton Co., Middletown, Ohio. Mechanism for freeing flaps and cutouts in carton blanks. 2,655,841, Oct. 20.
Anxionnaz, René, jointly, assignee: *See*—
Sedille, Marcel H. L.
Apstein, Maurice, Bethesda, Md. Electron discharge device of the resonator type. 2,656,483, Oct. 20.
Ardell, Edgar: *See*—
Fischer, Paul E., and Ardell.
Arey, William F., Jr.: *See*—
Kimberlin, Charles N., Jr., and Arey.
Argus Cameras, Inc., assignee: *See*—
Harvey, James E.
Armco Steel Corporation, assignee: *See*—
Burns, Robert S., and Solter.
Armelin, Maurice F., assignor to Société à Responsibilité Limitée so called: Societe d'Etudes de Machines Speciales, Paris, France. Mechanism for converting a uniform motion into a variable motion. 2,655,817, Oct. 20.
Armstrong Cork Company, assignee: *See*—
Bishop, Le Roy D.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Fischbach, Adolph, and Hochberg.
Page, Chester H.
Arnold, Erich, E. Heilmann, and W. Vollmer, Frankfurt am (Main), assignors to Metallgesellschaft Aktiengesellschaft, Frankfurt am Main, Germany. Apparatus for the gravity conveyance of adsorption media. 2,656,007, Oct. 20.
Arthur, Richard P., Chicago, Ill., assignor to Kellogg Switchboard and Supply Company. Crossbar system switchboard unit mounting. 2,656,418, Oct. 20.
Askania Regulator Company, assignee: *See*—
Ziebolz, Herbert.
Atlas, David, Newton Center, Mass. Device to permit radar contour mapping of rain intensity in rainstorms. 2,656,531, Oct. 20.
Aubert, Per, Oslo, Norway, R. A. Jeffreys, and E. B. Knott, Harrow, England, assignors to Eastman Kodak Company, Rochester, N. Y. Trinuclear dyes containing a 5-thiazolidone nucleus. 2,656,351, Oct. 20.
Auto Lamp Manufacturing Co., assignee: *See*—
Dibelka, Henry G.
Automatic Temperature Control Co., Inc., assignee: *See*—
Roessler, Charles E., Jr.
Axtell, Oliver H., Jr.: *See*—
MacKenzie, James S., and Axtell.
Ayres, Robert O., Houston, Tex. Cooling tower unit. 2,656,168, Oct. 20.
B. B. Chemical Co., assignee: *See*—
Davis, Howard G., Jr., Durette, and Johnson.
Bach, John W., Port Chester, N. Y., assignor to Pitney-Bowes, Inc., Stamford, Conn. Overload drive release. 2,656,185, Oct. 20.
Bachmann, Werner E., Ann Arbor, Mich., assignor to the United States of America as represented by the Secretary of War. Purification of cyclonite. 2,656,355, Oct. 20.
Baines, John A., Acton, London, assignor to Rotax Limited, London, England. Power transmission mechanisms. 2,655,820, Oct. 20.
Baker, George W.: *See*—
Olson, Albert M., and Baker.
Baker Manufacturing Company, The, assignee: *See*—
Washbond, Harry H.
Baker, Thomas R., Sunnyvale, and F. M. Leflef, San Francisco, assignors to Bemis-Jason Machine Co., Inc., Redwood, Calif. Folding box machine. 2,655,843, Oct. 20.

675 O. G.—53a

Baldwin, William S., St. Paul, and D. E. Floyd, Robbinsdale, Minn., assignors to General Mills, Inc. Selective reduction of fatty acids. 2,656,371, Oct. 20.

Balint, Anthony, New York, N. Y. Automatic harmonica instructor. 2,655,830, Oct. 20.

Ballard, Archibald H., and D. W. Marshall, Niagara Falls, Ontario, Canada, assignors to Norton Company, Worcester, Mass. Zirconia and quenching same and articles made therefrom. 2,656,278, Oct. 20.

Bannon, Thomas C., assignee: *See*—
Spencer, Lloyd.

Barker, Charles L., Dundalk, and R. G. Gaviak, Baltimore County, assignors to The Glenn L. Martin Company, Middle River, Md. Releasable fin assembly. 2,656,135, Oct. 20.

Barker, William A., Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J. Fastener-inserting machine. 2,655,655, Oct. 20.

Baroody, Naseeb B., Jr., Florence, S. C. Tie clasp with interchangeable slides. 2,655,751, Oct. 20.

Barre, Wade E., Jr., Warren, Pa., assignor to Sylvania Electric Products Inc., Salem, Mass. Fluorescent lamp holder. 2,656,521, Oct. 20.

Barry-Wehmiller Machinery Company, assignee: *See*—
Herold, James L.

Bartell, Ernest J., Rome, N. Y. Apparatus for grinding the needles of die drilling machines. 2,655,768, Oct. 20.

Bartlett, Jeffrey H., Westfield, N. J., assignor to Standard Oil Development Company. Mineral oil additive. 2,656,318, Oct. 20.

Barton Manufacturing Company, assignee: *See*—
Bent, John H.

Basevi, Sidney P., Ensbury Park, Bournemouth, assignor to Rotol Limited, Gloucester, England. Variable-pitch propeller. 2,655,999, Oct. 20.

Basler, Charles H., and W. L., Oshkosh, Wis. Animal-restraining device. 2,655,900, Oct. 20.

Basler, Warren L.: *See*—
Basler, Charles H., and W. L.

Bateman, Gerald G., Toronto, Ontario, Canada. Holdup attachment for safes and vault locks. 2,655,807, Oct. 20.

Bates Manufacturing Company, assignee: *See*—
Mills, George L.

Baumann, Elmer W.: *See*—
Foote, Alfred.

Baumgartner, John R., Milwaukee, Wis. Blank forming apparatus. 2,655,842, Oct. 20.

Beck & Co. (Meters) Limited, assignee: *See*—
Soar, Harry G.

Behrens, William H., Postville, assignor to Collins Radio Company, Cedar Rapids, Iowa. Device for limiting rotary motion. 2,655,811, Oct. 20.

Bell, Rupert B., Ann Arbor, Mich. Automatic coffee maker. 2,655,859, Oct. 20.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Bollman, John H.
Crump, Elmo E.
Ford, Gaylon T.
Fullerton, William O.
King, Archie P.
McMillan, Brockway.
Miloche, Herman A.
Sparks, Morgan.
Walsh, Edward J.
Warner, Arthur W., Jr.

Bemis Bro. Bag Company, assignee: *See*—
Brady, Charles V., and Ottinger.

Bemiss-Jason Machine Co., Inc., assignee: *See*—
Baker, Thomas R., and Lefief.

Bendix Aviation Corporation, assignee: *See*—
Bimberg, Elmer M.

Bennett, Clarence G., San Mateo, Calif., assignor to C. G. B. Company. Heat-sealing. 2,655,776, Oct. 20.

Benson, Richard E., Claymont, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparation of nitrooletins. 2,656,395, Oct. 20.

Bent, Arthur J., Pittsburgh, Pa., and S. L. Williams, New York, N. Y., assignors to Westinghouse Air Brake Company. Brake apparatus. 2,656,018, Oct. 20.

Bent, John H., Chicago, Ill., assignor to Barton Manufacturing Company, St. Louis, Mo. Method and machine for manufacturing applicators. 2,656,219, Oct. 20.

Berberich, Leo J., and H. M. Philofsky, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Producing electrical coils insulated with mica and synthetic resins and the products thereof. 2,656,290, Oct. 20.

Berge, Godshalk, assignor to Aladdin Industries, Incorporated, Chicago, Ill. Magnetic core composition and producing the same. 2,656,319, Oct. 20.

Berger Engineering Company, assignee: *See*—
Troyer, Marc D.

Berger, Frank M., Princeton, and B. J. Ludwig, North Brunswick, N. J., assignors to Carter Products, Inc., New York, N. Y. 2,2-diphenyl-1,3-propanediol monocarbamate. 2,656,378, Oct. 20.

Berglund, Hilma L. G., St. Paul, Minn. Hand weaving loom. 2,655,947, Oct. 20.

Bergmann, Ernst R., Evergreen Park, assignor to Goodman Manufacturing Company, Chicago, Ill. Drive mechanism for shaker conveyers. 2,656,037, Oct. 20.

Bergstrom, Eric V., Short Hills, and E. R. Sorf, Fanwood, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Method and apparatus for conducting moving contact material hydrocarbon conversion processes. 2,656,306, Oct. 20.

Best, John H., & Sons, Inc., assignee: *See*—
Best, Leon H., and Johnson.

Best, Leon H., and O. W. Johnson, assignors to John H. Best & Sons, Inc., Galva, Ill. Dolly for rolled materials such as carpeting. 2,656,050, Oct. 20.

Bielawski, Mitchell S., Berwyn, and J. M. Mavity, Hinsdale, assignors to Universal Oil Products Company, Chicago, Ill. Manufacture of phosphoric acid-group IV metal oxide containing catalyst. 2,656,323, Oct. 20.

Bimberg, Elmer M., Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Carburetor. 2,656,165, Oct. 20.

Bing, Herbert A.: *See*—
Mihalyi, Joseph, and Bing.

Birtman Electric Company, assignee: *See*—
Schwarz, Joseph A.

Bishop, Alfred E.: *See*—
Fink, Albert O., and Bishop.

Bishop, Le Roy D., Kankakee, Ill., assignor to Armstrong Cork Company, Lancaster, Pa. Tile-counting device. 2,656,053, Oct. 20.

Black, Robert J.: *See*—
Corbell, Paul L., and Black.

Blair, Walter, Detroit, Mich. Pin sweeping device. 2,656,187, Oct. 20.

Bloch, Herman S., assignor to Universal Oil Products Company, Chicago, Ill. Resin and its manufacture. 2,656,335, Oct. 20.

Blomgren, Oscar C., Evanston, Ill. Tire adapter. 2,656,083, Oct. 20.

Blomstrand, John H., assignor of one-half to Frederick W. Nyquist, Minneapolis, Minn. Wire nut. 2,656,204, Oct. 20.

Blue Ridge Glass Corporation, assignee: *See*—
Lewis, Joseph H.

Bobroff, Louis, Philadelphia, Pa. Adjustable roof structure for load-carrying vehicles. 2,656,216, Oct. 20.

Bochan, John, Trenton, N. J., assignor to General Electric Company. Control for automatic washing machines. 2,656,431, Oct. 20.

Bodle, Alexander T., assignor to Dodge Manufacturing Corporation, Mishawaka, Ind. Power transmission unit. 2,655,818, Oct. 20.

Bollinger, Loren E., Columbus, Ohio, assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Radio-frequency energy transfer switch. 2,656,443, Oct. 20.

Bollman, John H., Fanwood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Measuring circuit. 2,656,506, Oct. 20.

Bollman, Walter, Zurich, Switzerland. Device for delivering cards, especially railway tickets. 2,656,233, Oct. 20.

Bone, Herbert L., Forest Hills, Pa., assignor to Westinghouse Air Brake Company. Point detector latching mechanism. 2,656,457, Oct. 20.

Bonnel, Henri-Albert, Le Neubourg, France. Plow. 2,655,850, Oct. 20.

Borg-Warner Corporation, assignee: *See*—
Gommel, Dewey E.

Börjeson, Olov B.: *See*—
Skardal, Karl A., and Börjeson.

Börner, Christian, Obernburg (Main), assignor to Vereinigte Glanzstoff-Fabriken A. G., Wuppertal-Elberfeld, Germany. Tooth arrangement for screw type comminuting devices. 2,656,122, Oct. 20.

Bostitch, Inc., assignee: *See*—
Dell, Russell H.
Maynard, Arthur H.

Boyce, Arley G., Salem, Oreg. Artificial lure. 2,655,757, Oct. 20.

Brady, Charles V., and A. F. Ottinger, assignors to Bemis Bro. Bag Company, St. Louis, Mo. Bag of openmesh material and paper. 2,655,969, Oct. 20.

Bragdon, Robert W., Marblehead, assignor to Metal Hydrides Incorporated, Beverly, Mass. Stabilising alkali metal and alkaline earth metal aluminum hydrides. 2,656,243, Oct. 20.

Brand, Emily M. A., executrix: *See*—
Brand, Harry R.

Brand, Harry R., deceased, late of New York, by Emily M. A. Brand executrix, New York, N. Y. Therapeutic apparatus. 2,655,915, Oct. 20.

Brand, Josef, Duisburg-Hamborn, Germany. Mine support. 2,656,141, Oct. 20.

Breeze, James, Stewart Manor, N. Y. Container key. 2,656,065, Oct. 20.

Brierley, Paul, Birmingham, assignor to Dunlop Rubber Company Limited, London County, England. Hydrostatic apparatus. 2,655,943, Oct. 20.

British Telecommunications Research Limited, assignee: *See*—
Terlecki, Renat.

Broberg, Georg K. J., Solna, assignor to AB Svenska Fläktfabriken, Stockholm, Sweden. Air supply grill. 2,655,857, Oct. 20.

Brooks, Lester A., Norwalk, Conn., assignor to R. T. Vanderbilt Company, Inc., New York, N. Y. Lauryl pyridinium salts of chlorophenoxy-acetic acids. 2,656,359, Oct. 20.

Brooks, Phillips, Brooklyn, N. Y. Crown tooth support. 2,656,724, Oct. 20.

Brown-Allen Chemicals, Inc., assignee: *See*—
Ravich, Leonard E.

Brown, Edmund D., Manchester, assignor to United Aircraft Corporation, East Hartford, Conn. Gas turbine combustion chamber with variable area primary air inlet. 2,655,787, Oct. 20.

Brownhill, Frank D., and P. H. W. Wolff, Rugby, assignors to The English Electric Company Limited, London, England. Cooling of gas turbine rotors. 2,656,147, Oct. 20.

Brown, Lowell N., Overland, Mo. Pneumatic hammer. 2,655,901, Oct. 20.

Brown, Paul: *See*—
Roensch, Burns, and Brown.

Brown, Robert B., Greenville, S. C. Device for packaging flat flexible articles. 2,656,082, Oct. 20.

Brown, Walter T., Pittsburgh, Pa. Coking a mixture of a carbonaceous material and a high boiling bituminous pitch. 2,656,309, Oct. 20.

Brown, William B., Hasbrouck Heights, N. J., assignor to Radio Corporation of America. Mount for electron discharge devices. 2,656,479, Oct. 20.

Brown, William V., Flushing, assignor to Republic Aviation Corporation, near Farmingdale, N. Y. Pressure selecting system and mechanism. 2,655,941, Oct. 20.

Brush, Clyde E., Oakland, Calif. Box magazine for firearms. 2,655,754, Oct. 20.

Bues, Harvey A., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Fabricated casing structure. 2,656,064, Oct. 20.

Buffalo Brake Beam Company, assignee: *See*—
Busch, Charles R.

Buhr, August G., La Crosse, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Fertilizer dispensing mechanism. 2,656,073, Oct. 20.

Bunch, Tillman T., Ashland, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for locking cop tubes on cop winding machines. 2,656,127, Oct. 20.

Bunting, Ernest V., assignor to Harry Ferguson, Inc., Dearborn, Mich. Tractor-mounted two-way plow. 2,655,852, Oct. 20.

Burgess, Hubert N., Rockford, Ill. Hand signal light. 2,656,529, Oct. 20.

Burke, Dolores, Jackson Heights, N. Y. Puppet doll. 2,655,762, Oct. 20.

Burkert, Franz, assignor of one-half to Hilde Saliger, Vienna, Austria. Winding patient lift and turning mechanism. 2,655,667, Oct. 20.

Burns, Robert S., and R. L. Solter, assignors to Armco Steel Corporation, Middletown, Ohio. Production of coated soft iron and steel sheets. 2,656,285, Oct. 20.

Busch, Charles R., Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y. Brake beam. 2,656,019, Oct. 20.

Buss, Benjamin A., East Moline, Ill., assignor to American Machine and Metals, Inc., New York, N. Y. Control for fluid operated presses. 2,655,744, Oct. 20.

Butler, Henry J., Sutton Coldfield, assignor to Dunlop Rubber Company Limited, County of London, England. Air-cooled brake disk. 2,656,021, Oct. 20.

Byron Jackson Co., assignee: *See*—
Grant, John C.

C. G. B. Company, assignee: *See*—
Bennett, Clarence G.

Cable Belt Limited, assignee: *See*—
Thomson, Charles, and Gordon.

Caldwell, John R., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Acrylonitrile polymer solutions and articles formed therefrom. 2,656,328, Oct. 20.

Caldwell, John R., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Copolymers of acrylonitrile and allyl and 2-methallyl chlorides. 2,656,337, Oct. 20.

California Research Corporation, assignee: *See*—
Henning, Leland L.
Pino, Manuel A.
Turner, Cyril R.

Calleo, John J., Lodi, assignor to Decky Enterprises, Inc., Garfield, N. J. Rotary ball pitching machine. 2,655,908 Oct. 20.

Calmeyer, Reidar B., Heroya, near Poragrunn, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Oslo, Norway. Reducing the acidity of nitric acid-calcium nitrate compositions containing phosphate ions. 2,656,266, Oct. 20.

Camp, Samuel C.: *See*—
Stevens, Donald R., and Camp.

Campbell, D. F., assignee: *See*—
Dougherty, Richard H.

Campbell, David H., Norwalk, Calif., assignor to North American Aviation, Inc. Crystal oscillator. 2,656,467, Oct. 20.

Campbell, Erwin A., Wexford, assignor to Lee C. Moore Corporation, Pittsburgh, Pa. Tower jacking structure drive. 2,656,140, Oct. 20.

Campbell, John F., Euclid, Ohio. Spray nozzle. 2,656,218, Oct. 20.

Campbell, Shirley P., assignor to The Coleman Company, Inc., Wichita, Kans. Blower structure. 2,654,095, Oct. 20.

Canadian General Electric Company, Limited, assignee: *See*—
Elgar, Everett C.

Cantrell, Troy L.: *See*—
Smith, Herschel G., Cantrell, and Peters.

Carlile, Alfred E., Meadville, Pa., assignor to Talon, Inc. Bonding machine. 2,655,980, Oct. 20.

Carr, Donald E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Operating jet engines with fuel reforming. 2,655,786, Oct. 20.

Carson, William D.: *See*—
Hindall, Alva L., and Carson.

Carson, William D., and A. L. Hindall, Muncie, Ind., assignors to General Motors Corporation, Detroit, Mich. Manufacture of negative plates. 2,656,400, Oct. 20.

Carter Products, Inc., assignee: *See*—
Berger, Frank M., and Ludwig.

Carter, Ralph H.: *See*—
Kingsbury, Chadwick B., and Carter.

Cary, Beecher B., assignor to Hayes Industries, Jackson, Mich. Retroverted passage type muffler with resonator chambers. 2,656,005, Oct. 20.

Casco Products Corporation, assignee: *See*—
Thibault, Joseph O.

Cassaday, Jack T.: *See*—
Lindgren, Vincent V., and Cassaday.

Cate, Lorece, administratrix, de bonis non: *See*—
Ford, Wise L.

Celanese Corporation of America, assignee: *See*—
MacKenzie, James S., and Axtell.

Centre National de la Recherche Scientifique, assignee: *See*—
Felici, Noël.

Chain Belt Company, assignee: *See*—
Lindow, Rudolph F.
Olson, Albert M., and Baker.

Chalik, John, La Porte, Ind., and P. G. Torosian, Chicago, Ill. Weatherstrip construction. 2,655,698, Oct. 20.

Chamberlain, Harry L.: *See*—
Swerdlow, Nathan, and Chamberlain.

Chelminski, Roman, Wilton, Conn., assignor to Knowles Associates, New York, N. Y. Disposal of slime-bearing water. 2,656,118, Oct. 20.

Chemstrand Corporation, The, assignee: *See*—
Gann, Paul W., and Ham.
Ham, George E.
Lytton, Marion R.

Cherry, William H., Princeton, N. J., assignor to Radio Corporation of America. Capacitor and circuit. 2,656,466, Oct. 20.

Chesnut, John D., assignee: *See*—
Spencer, Lloyd.

Chicago Bridge & Iron Company, assignee: *See*—
Larsen, Lyle V.

Chrisman, Merrill W., Afton, Mo. Burial apparatus. 2,655,713, Oct. 20.

Christensen, Paul W.: *See*—
Anderson, Vernon L.

Christensen, William J., Salt Lake City, Utah. Orthopedic chair. 2,655,982, Oct. 20.

Christmann, Ludwig J.: *See*—
Vingee, Raymond A., and Christmann.

Christmann, Ludwig J., Yonkers, N. Y., and A. G. Houpt, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Manufacture of HCN. 2,656,251, Oct. 20.

Chrysler Corporation, assignee: *See*—
Drinkard, William E.

Ciba Pharmaceutical Products, Inc., assignee: *See*—
Miescher, Karl, Wettstein, and Schmidlin.
Rusicka, Leopold, and Plattner.

Clark, Earl W., Stuart, Fla. Condiment dispenser. 2,656,075, Oct. 20.

Clair, Louis C., Bernice, assignor of one-eighth to M. S. Whitfield, Homer, one-sixteenth to W. E. Worley, Shreveport, La., one-eighth to R. F. Peterson, Palestine, Tex., one-eighth to J. D. Dyal, Lisbon, La. Safety shut-off device for oil and gas wells. 2,655,934, Oct. 20.

Clark Equipment Company, assignee: *See*—
Lapeley, Robert.

Clark, Eugene F., Damariscotta, Maine, assignor to Marshall Field & Company, Chicago, Ill. Loop pile fabric. 2,655,951, Oct. 20.

Clark, Kendall, Oakwood, Ohio, assignor to The Murray Corporation of America, Detroit, Mich. Washing machine. 2,655,804, Oct. 20.

Clarke, Charles C., Grove City, assignor to Wheatland Tube Company, Wheatland, Pa. Production of iron oxide from ferrous solutions. 2,656,282, Oct. 20.

Clearing Machine Corporation, assignee: *See*—
Johansen, Einar K.

Clements, MacMillan, Bethel, Conn. Roof structure. 2,655,878, Oct. 20.

Cleveland Welding Company, The, assignee: *See*—
Mueller, Homer L.

Clifton, John R.: *See*—
Strayer, Chalmers A., and Clifton.

Coe, Clarence S., Rolling Hills, and T. F. Doumani, assignors to Union Oil Company of California, Los Angeles, Calif. Reaction products of hydrogen sulfide and salts of aci-nitro-hydrocarbons. 2,656,393, Oct. 20.

Coldwell, John S., assignor to Globe-Union Inc., Milwaukee, Wis. Wheel having cushioned tread. 2,656,220, Oct. 20.

Coleman Company, Inc., The, assignee: *See*—
Campbell, Shirley P.
Collins, Martin M., Jackson Heights, N. Y. Inertia switch. 2,656,139, Oct. 20.
Collins Radio Company, assignee: *See*—
Behrens, William H.
Corbell, Paul I., and Black.
Doelz, Melvin L.
Schweighofer, Horst M., and Nicholson.
Collinson, Eric S., Higher Brunshaw, Burnley, assignor to Joseph Lucas Limited, Birmingham, England. Liquid fuel burner with replaceable fuel nozzles. 2,655,990, Oct. 20.
Columbia Ribbon and Carbon Manufacturing Company, Inc., assignee: *See*—
Newman, Douglas A.
Columbian Carbon Company, assignee: *See*—
Heller, George L.
Comery, Peter D., Cooksville, Ontario, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada. Compensating metallic thrust ring. 2,656,227, Oct. 20.
Commonwealth Engineering Company of Ohio, The, assignee: *See*—
Fink, Albert O., and Bishop.
Toulmin, Harry A., Jr.
Conant, Harold B., Lincoln, Nebr. Metallic rectifier construction. 2,656,493, Oct. 20.
Conaway, Ernest A., Jr., assignee: *See*—
Conaway, Ernest A., Sr.
Conaway, Ernest A., Sr., Chicago, Ill., assignor to E. A. Conaway, Jr., Brooklyn, N. Y., D. C. Jennings, Lake Wales, Fla., and P. C. Miller, Oak Park, Ill. Snap strap seal. 2,656,209, Oct. 20.
Cones, Edgar B.: *See*—
Keeton, James C., and Cones.
Connors, Joseph B., Jersey City, N. J. Girdle. 2,655,658, Oct. 20.
Consolidated Engineering Corporation, assignee: *See*—
Goodwin, Paul S.
Consolidated Sewing Machine & Supply Co., Inc., assignee: *See*—
Ingwer, Max.
Consolidated Water Power & Paper Company, assignee: *See*—
Fisher, Harry C., and Sooy.
Continental Gin Company, assignee: *See*—
Ford, Wise L.
Cook, Norman E., Monroe, Mich. Jig. 2,655,821, Oct. 20.
Cook, Roy W., Green River, Utah. Telescopic chalk line device. 2,655,728, Oct. 20.
Copping, Bruce G., Atlanta, Ga., assignor to Dow Manufacturing Company, Chicago, Ill. Automatic conditioned air system with compensation for clogging filter. 2,656,112, Oct. 20.
Corbell, Paul I., Cedar Rapids, and R. J. Black, Marion, assignors to Collins Radio Company, Cedar Rapids, Iowa. Filament tensioning device. 2,656,480, Oct. 20.
Cork, Bruce B., Peck, Mich., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Tunable cavity. 2,656,484, Oct. 20.
Costa, Francisco G., Taunton, Mass. Handsaw level. 2 655,733, Oct. 20.
Cotter, George L., Pittsburgh, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Interlocked control apparatus for combined dynamic, track, and shaft brake equipment. 2,656,501, Oct. 20.
Coulter, Wallace H., Chicago, Ill. Means for counting particles suspended in a fluid. 2,656,508, Oct. 20.
Courchene, Theodore P., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,655,672, Oct. 20.
Coventry Motor Fittings Company Limited, The, assignee: *See*—
Garratt, Alan L.
Cox, Charles W., Springfield, Pa., F. A. Donovan, Wilmington, Del., and J. T. Frantz, North Hills, Pa., assignors to American Viscose Corporation, Wilmington, Del. Fluid leakage indicator. 2,655,893, Oct. 20.
Cozzo, Giuseppe, Yonkers, assignor to Hydropress, Incorporated, New York, N. Y. Metal forming. 2,655,823, Oct. 20.
Craig, James R.: *See*—
Aitchison, Robert B., Hicks, and Craig.
Crawford Door Company, assignee: *See*—
Robinson, Lowell V.
Crompton & Knowles Loom Works, assignee: *See*—
Hagstrom, Raymond A.
Cronberger, Lothar C., Tulsa, Okla. Animal trap. 2,655,759, Oct. 20.
Cronin, Eugene J., Baltimore, Md. Nursing nipple. 2,655,920, Oct. 20.
Crookston, Robert R., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Governor for prime mover with compressed air control for adjusting it to a wide range of speeds. 2,656,174, Oct. 20.
Crookston, Robert R., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Position control device. 2,656,027, Oct. 20.
Crosby, Hartzell L.: *See*—
Gray, Kenneth R., and Crosby.
Crouch, Willie W.: *See*—
Schulze, Walter A., and Crouch.
Crump, Elmo E., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Radar system. 2,656,532, Oct. 20.
Cunningham, George T.: *See*—
Wexler, Aaron, and Cunningham.
Curtis, Franklin E., Willoughby, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del. Printing machine. 2,656,103, Oct. 20.
Curtis, Philip C., Scottsdale, Ariz. Knockdown shelving. 2,656,045, Oct. 20.
Curtiss-Wright Corporation, assignee: *See*—
Galliers, Marshall W.
Leggett, Joseph H., and Moyer.
Sollinger, Ferdinand P.
Cushman, John A., Jr.: *See*—
White, Ben E., Cushman, and Dukert.
Cutler-Hammer, Inc., assignee: *See*—
Jochem, Theodore B.
Cutler, Roger W., New York, N. Y. Change-over drive for spinning and twisting frames. 2,655,782, Oct. 20.
Dabrowski, Roman, executor, assignee: *See*—
Kostro, Wladyslaw.
Daintee Toys, Inc., assignee: *See*—
Don Dero, Sylvester F.
D'Alcilo, Gaetano F., Pittsburgh, Pa., assignor to Koppers Company, Inc. Catalytic polymerization process. 2,656,334, Oct. 20.
D'Alcilo, Gaetano F., Pittsburgh, Pa., assignor to Koppers Company, Inc. Catalytic polymerization process. 2,656,341, Oct. 20.
Daley, James R., Amherst, Ohio. Means to deposit waterborne sand. 2,655,790, Oct. 20.
Darner, Frederic M., Shaker Heights, Ohio, and W. S. Schaefer, East Gadsden, Ala., assignors to Republic Steel Corporation, Cleveland, Ohio. Indicating device for seam welding apparatus. 2,656,447, Oct. 20.
Davis, Allan C., assignor to The Davis Caser Company, Baltimore, Md. Case filling machine. 2,656,081, Oct. 20.
Davis Caser Company, The, assignee: *See*—
Davis, Allan C.
Davis, Howard G., Jr., Wellesley, W. L. Durette, Cambridge, and E. C. Johnson, Somerville, assignors to B. B. Chemical Co., Boston, Mass. Bonding a body of polyethylene to a surface and adhesives used therefor. 2,656,297, Oct. 20.
Daystrom, Incorporated, assignee: *See*—
Roensch, Burns, and Brown.
Decky Enterprises, Inc., assignee: *See*—
Calleo, John J.
Dee, Leo H., Schenectady, N. Y., assignor to General Electric Company. Electronic motor control system. 2,656,500, Oct. 20.
Degen, Wilhelm, Frankfurt am Main, Germany. Shaking device, especially internal shaker for compacting loose masses. 2,656,161, Oct. 20.
Dell, Russell H., assignor to Bostitch, Inc., Stonington, Conn. Finger grip for handles of tools. 2,655,963, Oct. 20.
De Marchi, Vincent S., assignor, by mesne assignments, to Inland Steel Company, Chicago, Ill. Metallurgical process. 2,656,267, Oct. 20.
De Marinis, Frank, Cleveland Heights, assignor to The S. K. Wellman Company, Cleveland, Ohio. Manufacturing powdered metal. 2,655,716, Oct. 20.
De Nederlandsche Organisatie Voor Toegepast-Natuur-Wetenschappelijk Onderzoek Ten Behoeve Van Nijverheid, Handel en Verkeer, assignee: *See*—
Selling, Hendrik J.
De Turk, John E., Cambridge, and J. H. MacNeill, Stoughton, assignors to Raytheon Manufacturing Company, Newton, Mass. High-speed tape-handling mechanism. 2,656,129, Oct. 20.
De Vault, Albert N., Bartlesville, Okla., assignor to Phillips Petroleum Company. Polymerization of unsaturated compounds with palladium oxide containing catalyst. 2,656,398, Oct. 20.
Dewald, Roderich: *See*—
Tiedt, Friedrich, and Dewald.
Dibelka, Henry G., assignor to Auto Lamp Manufacturing Co., Chicago, Ill. Switch for use in turn-indicating signaling systems. 2,656,426, Oct. 20.
Dictophone Corporation, assignee: *See*—
Petruschell, Lucius P.
Diener, Jack, Washington, D. C. Dental instrument. 2,655,726, Oct. 20.
Diehl, John E., and P. Smisko, assignors to Stackpole Carbon Company, St. Marys, Pa. Electrical machine brush and prolonging its life. 2,656,473, Oct. 20.
Dietrich, Raymond W.: *See*—
Russell, Fred J., Dietrich, and Solovieff.
Dingley, Edward N., Jr., Arlington, Va. Magnetic tape recorder-reproducer. 2,656,419, Oct. 20.
Dinlocker, Charles A., and A. F. Steiert, Philadelphia, Pa. Alphabetical and numerical character. 2,655,750, Oct. 20.
Dodd, John A., Atlanta, Ga. Low-pressure cutoff for hydropneumatic tanks. 2,655,931, Oct. 20.
Dodge Manufacturing Corporation, assignee: *See*—
Bodle, Alexander T.

Doelz, Melvin L., Glendale, Calif., assignor to Collins Radio Company, Cedar Rapids, Iowa. Filter using transverse supporting means. 2,656,516, Oct. 20.
Doherty, Donald W., Crystal Lake, assignor to Queen Manufacturing Co., Inc., Chicago, Ill. Wire frame for garment hangers. 2,656,044, Oct. 20.
Dole Valve Company, The, assignee: *See*—
Drapeau, Harold B.
Doll, Brendan L.: *See*—
Doll, Martin and B. L.
Doll, Martin and B. L., assignors to Spaugh Paper Company, Incorporated, High Point, N. C. Pad. 2,656,291, Oct. 20.
Don Dero, Sylvester F., Baldwin, assignor to Daintee Toys, Inc., Brooklyn, N. Y. Abacus. 2,655,737, Oct. 20.
Doney, Roy N., Auburn, N. Y. Tire chain fastener. 2,655,972, Oct. 20.
Donovan, Francis A.: *See*—
Cox, Charles W., Donovan, and Frantz.
Dorenbaum, Philip, Providence, R. I. Holder for cards or memorandum pads. 2,655,760, Oct. 20.
Dorfman, Hiller D., Beaver, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,656,440, Oct. 20.
Dougherty, Richard H., Burbank, Calif., assignor, by mesne assignments, to D. F. Campbell. Butterfly valve with sequential rotating and tilting opening and closing movements. 2,655,942, Oct. 20.
Doumani, Thomas F.: *See*—
Coe, Clarence S., and Doumani.
Dow Manufacturing Company, assignee: *See*—
Copping, Bruce G.
Dow Chemical Company, The, assignee: *See*—
Mullison, Wendell R.
Downing, Eric W., Handsworth Wood, Birmingham, assignor to Joseph Lucas Limited, Birmingham, England. Apparatus for controlling the injection of liquid fuel to internal combustion engines. 2,655,907, Oct. 20.
Drake, George L., Jr., and J. D. Guthrie, New Orleans, La., assignors to the United States of America as represented by the Secretary of Agriculture. Further aminized aminoalkylated celluloses by reacting with ethylenimine. 2,656,241, Oct. 20.
Drapeau, Harold B., Oak Park, assignor to The Dole Valve Company, Chicago, Ill. Thermostatic valve. 2,656,113, Oct. 20.
Drinkard, William E., Birmingham, assignor to Chrysler Corporation, Highland Park, Mich. Crankcase ventilation kit. 2,656,000, Oct. 20.
Drobney, Joseph A.: *See*—
Gelsheiser, Francis L., and Drobney.
Druz, Walter S.: *See*—
Roschke, Erwin M., and Druz.
Du Bois, Robert C., Philadelphia, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Pressure sensitive resistor. 2,656,444, Oct. 20.
Ducommun, Georges, assignor to Ebauches S. A., Grenchen, Switzerland. Winding and setting mechanism for watch or clock movements. 2,655,784, Oct. 20.
Dugan, Edd, Davidson, Okla. Cotton stripper. 2,655,780, Oct. 20.
Dukert, Andrew A.: *See*—
White, Ben E., Cushman, and Dukert.
Du Mont, Allen B., Laboratories, Inc., assignee: *See*—
Giordano, Americo F.
Leighton, Herndon W.
Dunlop Rubber Company Limited, assignee: *See*—
Brierley, Paul.
Butler, Henry J.
Trevaskis, Henry W.
Dunn, Holbert E., Crafton, Pa., and J. Strauss, assignors to Vanadium Corporation of America, New York, N. Y. Magnesium alloys and making the same. 2,656,269, Oct. 20.
Dunn, James H.: *See*—
Miller, Leo A., Dunn, and Neher.
Dunn, Ulysses S., Chicago, Ill. Forming wound magnetic cores. 2,655,717, Oct. 20.
Duplex Electric Company, Inc., assignee: *See*—
Ellithorpe, Clarence D.
Du Pont, E. I., de Nemours and Company, assignee: *See*—
Benson, Richard E.
Lewis, Thomas G.
Ulvad, Bernhard.
Durette, William L.: *See*—
Davis, Howard G., Jr., Durette, and Johnson.
Durham, James B., Fort Payne, Ala. Brake anchor tool. 2,655,720, Oct. 20.
Duskin, Morris L., Chicago, Ill. Luggage tag strap. 2,655,747, Oct. 20.
Duval, Raymond, Versailles, France, assignor to General Electric Company. Blocking-layer rectifier. 2,656,494, Oct. 20.
Dwinell, Dwight J.: *See*—
Gartner, Stanley J., Swasey, and Dwinell.
Dyal, Jesse D., assignee: *See*—
Clair, Louis C.
Dyer, John, Tucson, Ariz. Refrigerator condensing unit cooler. 2,655,795, Oct. 20.
Dziengiel, John S., Jr., Whiting, Ind. Angular and cross cutting power saw. 2,655,955, Oct. 20.
E-Z Mills, Inc., assignee: *See*—
Hatay, Charles G.
Earl, Charles W., and W. H. Middleton, Seminole, Tex. Paraffin cleaner. 2,655,996, Oct. 20.
Eastman Kodak Company, assignee: *See*—
Aubert, Per, Jeffreys, and Knott.
Caldwell, John R.
Fay, Howard G.
Hagemeyer, Hugh J., Jr.
Henn, Richard W., and Piper.
Jeffreys, Roy A., and Knott.
Knott, Edward B., and Williams.
Mihalyi, Joseph, and Bing.
O'Dell, James R.
Rosenburgh, Norman J.
Straley, James M., and Harris.
Tamblyn, John W., and Schulken.
White, William M., and Leavitt.
Eaton, John S.: *See*—
Woolslayer, Homer J., Iddings, and Eaton.
Eaton Laboratories, Inc., assignee: *See*—
Ward, William C., and Gever.
Eaton, Lewis B., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Container forming apparatus. 2,655,979, Oct. 20.
Ebauches S. A., assignee: *See*—
Ducommun, Georges.
Eberle, Jack F., Bartlesville, Okla., assignor to Phillips Petroleum Company. Catalyst and preparing same. 2,656,322, Oct. 20.
Eckert, George W., Glenham, assignor to The Texas Company, New York, N. Y. Lubricating greases thickened with calcium silicate. 2,656,315, Oct. 20.
Eckstein, Ernest E., Elgin, Oreg. Automatic tong extracting and resetting mechanism. 2,656,212, Oct. 20.
Eddy, William C., assignor to Television Associates, Inc., Michigan City, Ind. Endless film magazine. 2,656,184, Oct. 20.
Edens, Robert L., Tulsa, Okla. Testing apparatus for clutch plates. 2,655,809, Oct. 20.
Edison, Thomas A., Incorporated, assignee: *See*—
Odell, Carl H.
Edler, Earline L., Buffalo, N. Y. Glove. 2,655,662, Oct. 20.
Edwards, Andrew W.: *See*—
Wallace, James M., and Edwards.
Edwards, Andrew W., East McKeesport, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Automatic reclosing circuit breaker. 2,656,433, Oct. 20.
Einhorn, Nathan, Philadelphia, Pa. Adjustable profile scraper. 2,655,721, Oct. 20.
Elarde, Paul F., Westchester, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic measuring device. 2,656,504, Oct. 20.
Electraulic Presses Limited, assignee: *See*—
Towler, John M., and F. H.
Electric & Musical Industries Limited, assignee: *See*—
Faudell, Leslie C.
Electro-Snap Switch & Mfg. Co., assignee: *See*—
Se Bastian, Ford.
Electrographic Corporation, assignee: *See*—
Snelson, Howard J.
Elfsuede, Inc., assignee: *See*—
Abeles, Ernest A.
Elgar, Everett C., assignor to Canadian General Electric Company, Limited, Toronto, Ontario, Canada. Electric radiant heat drier. 2,656,449, Oct. 20.
Elias, William, West Goshen Township, Chester County, and H. J. Merrion, Malvern, Pa., assignors, by mesne assignments, to American Home Products Corporation, New York, N. Y. Penicillin compositions. 2,656,299, Oct. 20.
Elle, Herbert J., Chicago, Ill. Adjustable stirrup for riding saddles. 2,655,778, Oct. 20.
Ellerbeck, Grant C., San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc. Duplex register calculating machines. 2,656,104, Oct. 20.
Elliott, Lauren F., assignor to Weltronic Company, Detroit, Mich. Electrical timing apparatus. 2,656,461, Oct. 20.
Ellithorpe, Clarence D., Milford, Conn., assignor to Duplex Electric Company, Inc., New York, N. Y. Retractable sidewalk teller system. 2,656,013, Oct. 20.
Ellsworth, Ransom C., assignor to The Ohio Boxboard Company, Rittman, Ohio. Carton construction. 2,656,092, Oct. 20.
Elsner, Frank, Hanover, Pa. Paster and holddown means for labeling machines. 2,655,896, Oct. 20.
Emhart Manufacturing Company, assignee: *See*—
Fischer, Paul E., and Ardell.
Endsley, Louis E., Pittsburgh, Pa., assignor to The Frost Railway Supply Co., Detroit, Mich. Railway car springs. 2,656,180, Oct. 20.
Engel, John P., Miller Place, assignor to Sapolin Paints, Inc., New York, N. Y. Fume disposal system. 2,656,008, Oct. 20.
English Electric Company Limited, The, assignee: *See*—
Brownhill, Frank D., and Wolff.
Ensminger, Stanley W.: *See*—
Goett, John J., and Ensminger.
Enterprise Machine Parts Corporation, assignee: *See*—
Hazen, Lysle L.
Ernst, Hans, and A. H. Hawley, Cincinnati, Ohio, assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Continuous aim gun control mechanism. 2,655,838, Oct. 20.

Ernst, Robert, and G. D. Loeff, assignors to Textilana, Inc., Los Angeles, Calif. Mixtures of orthophosphates. 2,656,372, Oct. 20.

Eschenbrenner, Hector X., Columbus, Ohio. Method and apparatus for molding cementitious bodies. 2,655,708, Oct. 20.

Essex Manufacturing Co., Inc., assignee: *See*— Harris, Eli E.

Ethyl Corporation, assignee: *See*— Miller, Leo A., Dunn, and Neher.

Ettco Tool Co., Inc., assignee: *See*— Irrgang, Louis.

Everett, Franklin L., Silver Spring, Md., assignor to the United States of America as represented by the Secretary of the Navy. Breaker mechanism for deferred action batteries. 2,656,401, Oct. 20.

Eyler, Roy I., assignor to Landis Machine Company, Waynesboro, Pa. Machine tool and operating circuit therefor. 2,655,670, Oct. 20.

Fahnoe, Harold H., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. High-voltage fuse. 2,656,435, Oct. 20.

Fairbanks, Morse & Co., assignee: *See*— Lindau, Fred I., and Glazebrook.

Fairmont Railway Motors, Inc., assignee: *See*— McDonald, Neil J. Templeton, Herbert W.

Faith, Herman E., Indianapolis, Ind., assignor to Allied Laboratories, Inc., Kansas City, Mo. Preparation of 2-halogenated tetrahydrothiophene 1,1-dioxides. 2,656,362, Oct. 20.

Fallert, Clifford D., St. Louis County, and W. C. George, assignors to Gaylord Container Corporation, St. Louis, Mo. Master shipping container. 2,656,089, Oct. 20.

Fantz, Fred C., Lima, assignor, by mesne assignments, to The Lunkenheimer Company, Cincinnati, Ohio. Flexible gate valve. 2,656,143, Oct. 20.

Farbenfabriken Bayer, assignee: *See*— Schmidt, Erich, and Schnegg.

Farm Tools, Inc., assignee: *See*— Warne, Frederick C.

Faudell, Leslie C., near Stoke Poges, assignor to Electric & Musical Industries Limited, Hayes, England. Television receiver. 2,656,413, Oct. 20.

Faulkner, Harry, Rochdale, England. Automatic lighter. 2,656,492, Oct. 20.

Fay, Howard G., assignor to Eastman Kodak Company, Rochester, N. Y. Mold for framing lenses in a plastic mounting. 2,655,692, Oct. 20.

Fehrman, Frederick C., Washington, D. C. Rotary grinding implement. 2,655,725, Oct. 20.

Feiertag, Karl M., Fort Wayne, Ind., assignor to General Electric Company. Permanent magnet brake. 2,656,026, Oct. 20.

Felderman, Lloyd G., and A. S. Knoisen, Franklin, Pa., assignors to Joy Manufacturing Company. Timber setting machine. 2,656,037, Oct. 20.

Felici, Noël, Grenoble, assignor to Centre National de la Recherche Scientifique, Paris, France. Electrostatic machine. 2,656,502, Oct. 20.

Fellabaum, John P., Warren, Ohio. Trailer vehicle with demountable wheel trucks. 2,656,196, Oct. 20.

Felt & Tarrant Manufacturing Company, assignee: *See*— Niemann, Frederick A.

Ferguson, Harry, Inc., assignee: *See*— Bunting, Ernest V.

Fielden (Electronics) Limited, assignee: *See*— Fielden, John E.

Fielden, John E., Wythenshawe, Manchester, assignor to Fielden (Electronics) Limited, Manchester, England. Proximity meter. 2,656,507, Oct. 20.

Filander, Arthur H., assignor to Franklin Balmar Corporation, Baltimore, Md. Jar-handling equipment for capping machines. 2,656,084, Oct. 20.

Filsinger, Dean L.: *See*— Filsinger, Raymond D. and D. L.

Filsinger, Raymond D. and D. L., Clearwater, Nebr. Vehicle hauling elevator. 2,656,034, Oct. 20.

Findlay, Robert A., Bartlesville, Okla, assignor to Phillips Petroleum Company. Making high octane gasoline. 2,656,301, Oct. 20.

Findlay, Robert A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Conversion of hydrocarbon materials. 2,656,307, Oct. 20.

Fink, Albert O., and A. E. Bishop, assignors to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Plating wire. 2,656,283, Oct. 20.

Fiorino, Sam, Du Quoin, Ill. Workholding attachment for lathes. 2,655,829, Oct. 20.

Fiorucci, Thomas J., Phoenix, Ariz. Automobile door switch deactivator. 2,656,427, Oct. 20.

Fireproof Tanks Limited, assignee: *See*— Locke, Walter F.

Firmenich & Co., successeurs de la Societe Anonyme M. Naef & Cie, assignee: *See*— Stoll, Max.

Firminhac, Ralph H., Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission. Survey instrument. 2,656,476, Oct. 20.

Fischbach, Adolph, Allenhurst, and F. Hochberg, Red Bank, N. J., assignors to the United States of America as represented by the Secretary of the Army. Electrode for primary batteries. 2,656,402, Oct. 20.

Fischer, John J., and L. J. Morgan, assignors to The Patterson-Kelley Co., Inc., East Stroudsburg, Pa. Tumbling mill feed mechanism. 2,656,162, Oct. 20.

Fischer, Paul E., Portland, and E. Ardell, Middletown, Conn., assignors, by mesne assignments, to Emhart Manufacturing Company. Shipping case unloading apparatus. 2,656,060, Oct. 20.

Fisher, Harry C., Cincinnati, and B. E. Sooy, Middletown, Ohio, assignors, by mesne assignments, to Consolidated Water Power & Paper Company, Wisconsin Rapids, Wis. Coating paper webs and product thereof. 2,656,286, Oct. 20.

Fites, Cyril B., St. Johns, assignor to Wagner Electric Corporation, St. Louis, Mo. Relay valve for tractor trailer brake systems. 2,656,014, Oct. 20.

Fladung, Albert L., Westminster, Colo. Pipe pushing device. 2,656,148, Oct. 20.

Fladung, Albert L., Westminster, Colo. Pipe nipple chuck. 2,656,191, Oct. 20.

Fleming, William E., Galt, Ontario, Canada. Skate holder. 2,655,774, Oct. 20.

Flesch, John E., Los Angeles, Calif., assignor to American Steel Foundries, Chicago, Ill. Spring group. 2,656,179, Oct. 20.

Fletcher, Irving J., assignor to The American Hardware Corporation, New Britain, Conn. Combined lock and seal device. 2,655,805, Oct. 20.

Fletcher, Irving J., assignor to The American Hardware Corporation, New Britain, Conn. Dead bolt latch. 2,656,205, Oct. 20.

Flora, Laurence H., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Clamp. 2,655,703, Oct. 20.

Floyd, Don E.: *See*— Baldwin, William S., and Floyd.

Fogarty, Eva A.: *See*— Fogarty, Harland J. and E. A.

Fogarty, Harland J. and E. A., San Bernardino, Calif. Collapsible tube dispenser. 2,656,069, Oct. 20.

Foote, Alfred, assignor of one-half to E. W. Baumann, Cleveland, Ohio. Truck loading and unloading mechanism. 2,656,058, Oct. 20.

Ford, Gaylon T., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device and processing thereof. 2,656,489, Oct. 20.

Ford, Wise L., deceased, Lawton, Okla.; L. Cate, administratrix de bonis non of said W. L. Ford, assignor to Continental Gin Company, Birmingham, Ala. Hydraulic gin breast lift. 2,655,695, Oct. 20.

Fossa, Joseph, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,655,671, Oct. 20.

Foster, Edward H., assignor to The Tillotson Manufacturing Company, Toledo, Ohio. Charge forming device. 2,656,166, Oct. 20.

Foy, Richard H.: *See*— London, Coleman, and Foy.

Fram Corporation, assignee: *See*— Rabbitt, Milton.

Frandi, Antonio E., Mexico City, Mexico. Vehicle wheel. 2,656,221, Oct. 20.

Franklin Balmar Corporation, assignee: *See*— Filander, Arthur H.

Frantz, John T.: *See*— Cox, Charles W., Donovan, and Frantz.

Frantz, Virgil L., Roanoke, Va. Fluid pressure control valve. 2,656,144, Oct. 20.

Freeport Sulphur Company, assignee: *See*— Smith, Hubert L., and Gustafson.

Freese, Gerald J.: *See*— Gano, Harlan S., and Freese.

Freese, Gerald J., Beaver, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,656,436, Oct. 20.

Frenkel, Meyer, London, England. Variable speed governing mechanism with modifier. 2,656,173, Oct. 20.

Frerer, Paul G., and C. S. Smith, Peru, assignors, by mesne assignments, to Soreng Products, Inc., Schiller Park, Ill. Automatic timing apparatus for washing machines. 2,656,424, Oct. 20.

Frey, Walter, Basel, assignor to Saeurefabrik Schweizerhall, Schweizerhalle, Baselland, Switzerland. Separation of chlorine by absorption. 2,656,011, Oct. 20.

Freyssinet, Eugène, Neuilly-sur-Seine, France. Concrete pavement. 2,655,845, Oct. 20.

Freyssinet, Eugène, Neuilly-sur-Seine, France. Large sized concrete area adapted for airplane runways and the like. 2,655,846, Oct. 20.

Friden Calculating Machine Co., Inc., assignee: *See*— Ellerbeck, Grant C.

Friedman, Herbert, Arlington, Va. Voltage regulator. 2,656,478, Oct. 20.

Frost Railway Supply Co., The, assignee: *See*— Endsley, Louis E.

Fullerton, William O., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Voltage supply control circuit. 2,656,487, Oct. 20.

Gallenkamp, Norma B., Houston, Tex. Shampooing and setting hair. 2,655,923, Oct. 20.

Galliers, Marshall W., Radburn, N. J., assignor to Curtiss-Wright Corporation. Fluid-tight joint. 2,656,200, Oct. 20.

Gamrath, Harry R., assignor to Monsanto Chemical Company, St. Louis, Mo. Preparation of alkyl phenyl phosphoric acids and the salts thereof. 2,656,374, Oct. 20.

Gamrath, Harry R., assignor to Monsanto Chemical Company, St. Louis, Mo. Producing mixed diaryl esters of ortho-phosphoric acid. 2,656,373, Oct. 20.

Gann, Paul W., and G. E. Ham, Dayton, Ohio assignors, by mesne assignments, to The Chemstrand Corporation. Dyeable acrylonitrile copolymers. 2,656,325, Oct. 20.

Gano, Harlan S., and G. J. Freese, Beaver, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,656,432, Oct. 20.

Gardner Board and Carton Co., The, assignee: *See*— Annesa, Russell W.

Garratt, Alan L., Kenilworth, assignor to The Coventry Motor Fittings Company Limited, Coventry, England. Radiator. 2,656,155, Oct. 20.

Gartner, Stanley J., Emporium, Pa., S. E. Swasey, Marblehead, and D. J. Dwinell, Reading, assignors to Sylvania Electric Products Inc., Salem, Mass. Lead wire feed mechanism for lamp stem fabricating apparatus. 2,655,954, Oct. 20.

Gavlak, Raymond G.: *See*— Barker, Charles L., and Gavlak.

Gaylord Container Corporation, assignee: *See*— Fallert, Clifford D., and George.

Gebrüder Bühler, assignee: *See*— Tanner, Fritz.

Geerin, Henrietta S., Cincinnati, Ohio. Dusting and polishing device. 2,655,680, Oct. 20.

Geiringer, Walter, Potts Point, near Sydney, New South Wales, Australia. Apparatus for affixing fabric to printing tables. 2,655,865, Oct. 20.

Geldhof, Peter E., and L. Ringer, St. Joseph, Mich., assignors to Whirlpool Corporation. Centrifugal washing and drying machine. 2,656,042, Oct. 20.

Gelpi, Maurice J.: *See*— Vore, Milton P., and Gelpi.

Gelzheiser, Francis L., Pittsburgh, and J. A. Drobney, Beaver, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,656,439, Oct. 20.

Gendron, Joseph, Hollywood, Fla. Automatic sheet metal reforming hammer. 2,655,825, Oct. 20.

General Aniline & Film Corporation, assignee: *See*— Gunther, Robert C.

General Electric Company, assignee: *See*— Bochan, John. Dee, Leo H. Duval, Raymond. Feiertag, Karl M. Hall, Charles M. Haviland, Robert P. McCarthy, Robert B. McFarland, Donald L., and Moore. Miller, Homer H. Sheahan, Robert E. Sprung, Murray M. Swerdlow, Nathan, and Chamberlain. Smith, Archie E.

General Mills, Inc., assignee: *See*— Baldwin, William S., and Floyd. Huch, William F.

General Motors Corporation, assignee: *See*— Carson, William D., and Hindall. Hindall, Alva L., and Carson.

General Refractories Company, assignee: *See*— Heuer, Russell P.

General Tire and Rubber Company, The, assignee: *See*— Neher, Eldon P. Schaffel, Gerson S., and Swart.

Gensky, Henry E., and S. D. Schroeder, Jefferson City, Mo. Garment hanger. 2,656,077, Oct. 20.

Gentry, Rex E., Chesterfield, Ind. Ceramic petal cutting means. 2,655,709, Oct. 20.

George, Walter C.: *See*— Fallert, Clifford D., and George.

Gever, Gabriel: *See*— Ward, William C., and Gever.

Gill, James C., Indianapolis, Ind. Egg breaking machine. 2,655,965, Oct. 20.

Giordano, Americo F., Newark, assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J. Stabilized television circuit. 2,656,486, Oct. 20.

Glassner, Charles W., Akron, Ohio. Burial casket. 2,655,712, Oct. 20.

Glavin, Thomas A., assignee: *See*— White, Ara L.

Glazebrook, Robinson C.: *See*— Lindau, Fred I., and Glazebrook.

Gleason, Frederick C., Montpelier, Vt. Sorting machine. 2,656,054, Oct. 20.

Globe-Union Inc., assignee: *See*— Coldwell, John S.

Goett, John J., New York, and S. W. Ensminger, Brooklyn, N. Y., assignors to Chas. Pfizer & Co., Inc. Streptomycin broth clarification with sequestering agents. 2,656,347, Oct. 20.

Goldsby, John F., Missoula, Mont. Hackle vise. 2,655,826, Oct. 20.

Gommel, Dewey E., Indianapolis, Ind., assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Saw chain. 2,655,958, Oct. 20.

Gonda, Desiré, and A. A. Hodge, assignors to Holoplast Limited, New Hythe, near Maidstone, England. Method and means for manufacturing corrugated plastic laminates. 2,655,978, Oct. 20.

Good, George M.: *See*— Holzman, George, and Good.

Good, William E., Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Wave guide attenuator. 2,656,518, Oct. 20.

Goodman Manufacturing Company, assignee: *See*— Bergmann, Ernst R.

Goodrich, B. F., Company, The, assignee: *See*— Hoover, John R. Mathes, Roger A., and Stewart.

Goodrich, Susan F., Augusta, Ga. Recording and display device. 2,655,740, Oct. 20.

Goodstein, Charles B., New Rochelle, and M. B. Mittleman, Larchmont, N. Y. Hypodermic syringe and cartridge therefor. 2,655,919, Oct. 20.

Goodwin, Paul S., assignor to Consolidated Engineering Corporation, Pasadena, Calif. Electrometer amplifier network. 2,656,498, Oct. 20.

Goodwin, Paul S., assignor to Consolidated Engineering Corporation, Pasadena, Calif. Electrometer amplifier network. 2,656,499, Oct. 20.

Gordon, Samuel H.: *See*— Thomson, Charles, and Gordon.

Gorman, George D., Stillwater, Minn. Pen or pencil clip. 2,655,702, Oct. 20.

Gorski, Michael, Milwaukee, Wis. Propulsion mechanism. 2,655,891, Oct. 20.

Graber, Robert P., Westfield, and N. L. Wendler, Linden, assignors to Merck & Co., Inc., Rahway, N. J. Steroids and preparing the same. 2,656,367, Oct. 20.

Graber, Robert P., Westfield, and N. L. Wendler, Linden, assignors to Merck & Co., Inc., Rahway, N. J. Δ^{11}-20-cyano-11-hydroxypregnes. 2,656,368, Oct. 20.

Graber, Robert P., Westfield, and N. L. Wendler, Linden, assignors to Merck & Co., Inc., Rahway, N. J. 3,20-diketo-11,17-dihydroxy-21-acyloxypregnane compounds. 2,656,369, Oct. 20.

Grangaard, Donald H., Appleton, assignor to Paper Patents Company, Neenah, Wis. Manufacturing fibrous sheet covered plywood. 2,656,296, Oct. 20.

Grant, F. Eugene, Arlington, Mass., and L. Katz, Sutherland, Saskatchewan, Canada, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Beacon radar system. 2,656,530, Oct. 20.

Grant, John C., Los Angeles, assignor to Byron Jackson Co., Vernon, Calif. Tandem type pipe wiper. 2,655,679, Oct. 20.

Gray, Howard A., Jr., Washington, D. C., assignor to the United States of America as represented by the Secretary of the Navy. Automatically controlled photoelectric iris. 2,655,848, Oct. 20.

Gray, Kenneth R., and H. L. Crosby, assignors to Rayonier Incorporated, Shelton, Wash. Recovering chemicals from smelts obtained in pulping operation. 2,656,244, Oct. 20.

Gray, Kenneth R., and H. L. Crosby, assignors to Rayonier Incorporated, Shelton, Wash. Preparation of sodium salts of carbonic acid by ion exchange. 2,656,245, Oct. 20.

Gray, Kenneth R., and H. L. Crosby, assignors to Rayonier Incorporated, Shelton, Wash. Preparation of a sodium bisulfite solution. 2,656,249, Oct. 20.

Gray, Percy, Richmond, Calif., assignor of one-half to W. Gray, Washington, D. C. Adjustable scaffold clamp. 2,656,223, Oct. 20.

Gray, Percy, Richmond, Calif., assignor of one-half to W. Gray, Washington, D. C. Scaffold clamping device. 2,656,224, Oct. 20.

Gray, Richard O.: *See*— Roschke, Erwin M., and Gray.

Gray, Richard O., and E. M. Roschke, Broadview, Ill., assignors to Zenith Radio Corporation. Subscriber television system. 2,656,406, Oct. 20.

Gray, Richard O., and E. M. Roschke, Broadview, Ill., assignors to Zenith Radio Corporation. Subscriber signaling system. 2,656,408, Oct. 20.

Gray, Samuel M., Marblehead, and R. C. Svenson, Beverly, assignors to Sylvania Electric Products Inc., Salem, Mass. Electric discharge device starter. 2,656,488, Oct. 20.

Gray, William, assignee: *See*— Gray, Percy.

Green, David V. M.: *See*— Maurer, Winfield G., and Green.

Gressel, Jules, assignor to Nouvelle Societe de Construction ci-devant N. Schlumberger & Cie, Guebwiller, France. Combing machine of the rectilinear type. 2,655,696, Oct. 20.

Gridley, Darrin H., and A. J. Stecca, Washington, D. C. Data storage and reproducing apparatus. 2,656,524, Oct. 20.

Griffin, William D.: *See*— Joris, George G., and Griffin.

Grissett, Andrew F., Hattiesburg, Miss. Forestry tool for girdling trees. 2,655,763, Oct. 20.

Gross, Eugene, Brooklyn, assignor of one-third to E. Neufeld, New York, N. Y. Antiskid device. 2,655,971, Oct. 20.

Grover, Donald P., Chicago, Ill. Multiple rotary toothbrush with lip guard. 2,655,674, Oct. 20.

Grover, Donald P., Chicago, Ill. Power-driven toothbrush with lip guard. 2,655,675, Oct. 20.

Grover, Donald P., Chicago, Ill. Rotary toothbrush with lip guard. 2,655,676, Oct. 20.

Grow, Paul E., Muncie, Ind. Implement to facilitate dressing of grinding wheels. 2,655,910, Oct. 20.

Gruendler Crusher & Pulverizer Co., assignee: *See*— Shelton, Harry J., Jr., and Smiley.

Gulf Oil Corporation, assignee: *See*— Smith, Herschel G., and Cantrell. Smith, Herschel G., Cantrell, and Peters.

Gulf Research & Development Company, assignee: *See*— Stevens, Donald R., and Camp.

Gunther, Robert C., Galesburg, Ill., assignor to General Aniline & Film Corporation, New York, N. Y. Stabilized azine photographic developers containing sodium metaborate as the sole alkali. 2,656,272, Oct. 20.

Gustafson, Arnold A.: *See*— Smith, Hubert L., and Gustafson.

Guthrie, John D.: *See*— Drake, George L., and Guthrie.

Guyette, Albert L., Keene, N. H. Clip expander. 2,656,049, Oct. 20.

Haboush, Edward J., Brooklyn, N. Y. Vibratory tool for operating bone sets, bone chisels, and bone nail drivers. 2,655,921, Oct. 20.

Haden, Joseph R., Monongalia County, assignor to Morgantown Glassware Guild, Inc., Morgantown, W. Va. Dimpling apparatus and procedure for hollow parisons. 2,655,766, Oct. 20.

Haegele, Otto P., Columbus, Ohio, assignor to Joy Manufacturing Company. Machine for assembling rollers. 2,655,718, Oct. 20.

Hagemeyer, Hugh J., Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Preparing N-acyl derivatives of amide compounds. 2,656,360, Oct. 20.

Hagen, Jerry, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control apparatus. 2,655,777, Oct. 20.

Hagstrom, Raymond A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Composite picker stick. 2,655,949, Oct. 20.

Hale, Gerald A., Oklahoma City, Okla. Timer apparatus for parking meters. 2,655,797, Oct. 20.

Hall, Charles M., Trumbull, Conn., assignor to General Electric Company. Combination handle and support leg for ironer cabinets. 2,656,237, Oct. 20.

Ham, George E.: *See*— Gann, Paul W., and Ham.

Ham, George E., Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation. Dyeable acrylonitrile copolymers. 2,656,326, Oct. 20.

Ham, George E., assignor to The Chemstrand Corporation, Decatur, Ala. Synthetic fiber preparation. 2,656,329, Oct. 20.

Ham, George E., Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation. Preparing dye-receptive acrylonitrile polymers. 2,656,336, Oct. 20.

Hamblet, Marcia C., New York, N. Y. Nonspill powder container. 2,656,090, Oct. 20.

Hamelink, Cornelis A. S., Amsterdam, assignor to T. Reumerman, Zandvoort, and W. H. T. Helmig, Leiden, Netherlands. Register having a check wheel connected for operation thereby. 2,656,108, Oct. 20.

Hamilton Metal Products Company, The, assignee: *See*— Piker, Herbert M.

Hamlin, Hailey H., Cortland, N. Y. Beverage dispensing apparatus. 2,655,858, Oct. 20.

Hammond, John H., Jr., Gloucester, Mass. Television type facsimile transmission system. 2,656,412, Oct. 20.

Hammond Machinery Builders, Incorporated, assignee: *See*— Krueger, Edward C., and Vander Linde.

Hammond, William E.: *See*— Holm, Sven, and Hammond.

Hanna, Clinton R., Pittsburgh, and K. A. Oplinger, Verona, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system for dirigible craft. 2,656,134, Oct. 20.

Hansen, William W., deceased, by O. D. Ross, executrix, Palo Alto, Calif., and M. H. Johnson, Alexandria, Va., assignors to The Sperry Corporation. Wave guide impedance transformer. 2,656,515, Oct. 20.

Haresnape, John N.: *See*— Porter, Frederick W. B., and Haresnape.

Harris, Eli E., Clayton, assignor to Essex Manufacturing Co., Inc., St. Louis, Mo. Differential pressure switch. 2,656,428, Oct. 20.

Harris, Raymond C.: *See*— Straley, James M., and Harris.

Harris, Thomas A., assignor to Joseph Lucas Limited, Birmingham, England. Liquid-fuel injection means for prime movers. 2,655,937, Oct. 20.

Harris, Thomas A., Edgbaston, Birmingham, assignor to Joseph Lucas Limited, Birmingham, England. Means for controlling the rate of supply of liquid fuel to prime movers. 2,655,945, Oct. 20.

Hart, Stacy R., assignor of ten per cent to R. L. Kirk, Littefield, Tex. Air conditioner for motor vehicles. 2,655,856, Oct. 20.

Hartzler, Melvin E.: *See*— McKee, James H., and Hartzler.

Harvey, James E., assignor to Argus Cameras, Inc., Ann Arbor, Mich. Automatic film winding and shutter tensioning control camera mechanism. 2,655,847, Oct. 20.

Harvey, Paul D., Chicago, Ill. Sliding door hanger and check device for trucks. 2,656,215, Oct. 20.

Hastings Manufacturing Company, assignee: *See*— Phillips, Harold P.

Hatay, Charles G., Georgetown, Mass., assignor to E-Z Mills, Inc., New York, N. Y. Shrinkproofing of fabrics. 2,655,711, Oct. 20.

Hatfield, Robert L., East Orange, assignor to Nash Inc., Jersey City, N. J. Billfold retainer clip. 2,655,705, Oct. 20.

Haviland, Robert P., Scotia, N. Y., assignor to General Electric Company. Arbitrary function generator. 2,656,101, Oct. 20.

Hawley, Amos H.: *See*— Ernst, Hans, and Hawley.

Hayes Industries, assignee: *See*— Cary, Beecher B.

Haynes, Thomas A., Wyandotte, assignor to The Upjohn Company, Kalamazoo, Mich. Inserting stoppers into bottles. 2,656,086, Oct. 20.

Hatch, Arthur J., assignor to The Strong Electric Corporation, Toledo, Ohio. Arc lamp. 2,656,482, Oct. 20.

Hayward, Cyril, Tarentum, assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Production of DDT. 2,656,396, Oct. 20.

Hazen, Lysle L., assignor to Enterprise Machine Parts Corporation, Detroit, Mich. Automatic take-up steady rest. 2,655,828, Oct. 20.

Heberlein, Georg, heir, administrator: *See*— Heberlein, Georges and Georg, Weiss, Risch, and Odinga.

Heberlein, Georges, deceased, by Georg Heberlein, heir and administrator, G. Heberlein, E. Weiss, K. Risch, and T. Odinga, deceased, Wattwil, by H. Odinga, heir and administrator, Zurich, Switzerland, assignors to Heberlein Patent Corporation, New York, N. Y. Apparatus for imparting false twist to yarn. 2,655,781, Oct. 20.

Heberlein Patent Corporation, assignee: *See*— Heberlein, Georges and Georg, Weiss, Risch, and Odinga.

Heilmann, Edmund: *See*— Arnold, Erich, Heilmann, and Vollmer.

Heintz, James C., Jr., Lakewood, Ohio. Brake shoe bonder. 2,655,974, Oct. 20.

Heintz, James C., Jr., Lakewood, Ohio. Apparatus and method for adhesively bonding friction lining to brake shoes. 2,655,975, Oct. 20.

Hell, Rudolf, Kiel-Dietrichsdorf, assignor to Siemens & Halske, Aktiengesellschaft, Berlin-Siemensstadt and Munich, Germany. Recording apparatus for the reception of message characters. 2,656,240, Oct. 20.

Heller, George L., Monroe, La., assignor to Columbian Carbon Company, New York, N. Y. Carbon black. 2,656,254, Oct. 20.

Hellwig, August R., Glendale, Calif. Vehicle spring rearching means. 2,656,181, Oct. 20.

Helmig, Willem H. T., assignee: *See*— Hamelink, Cornelis A. S.

Helwig, William F., Milwaukee, Wis. Garment hanger. 2,656,079, Oct. 20.

Henderson, Robert D., Cincinnati, Ohio. Circumferentially traveling support-mounted tire mounting apparatus. 2,655,985, Oct. 20.

Henn, Richard W., and D. E. Piper, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic developers containing diaminopropanol tetracetic acid. 2,656,273, Oct. 20.

Hennessy, James J., assignor to Hennessy Lubricator Company, Inc., Chambersburg, Pa. Railway journal box lubricator structure. 2,656,226, Oct. 20.

Hennessy Lubricator Company, Inc., assignee: *See*— Hennessy, James J.

Henning, George E., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for continuously making vulcanized articles. 2,655,690, Oct. 20.

Henning, George E., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for forming vulcanized articles. 2,655,691, Oct. 20.

Henning, Leland L., El Cerrito, assignor, by mesne assignments, to California Research Corporation, San Francisco, Calif. Hydrocarbon fractionation. 2,656,310, Oct. 20.

Hepp, Peter P., Beaumont, Calif. Chuck. 2,656,192, Oct. 20.

Herbold, Robert J., assignor to L. M. Hughes, Denver, Colo. Photoelectric cell having a light sensitive electron emissive cathode. 2,656,477, Oct. 20.

Hercules Powder Company, assignee: *See*— Ritchie, Paul F.

Herold, James L., assignor to Barry-Wehmiller Machinery Company, St. Louis, Mo. Bottle cleansing machine. 2,655,928, Oct. 20.

Herold, James L., assignor to Barry-Wehmiller Machinery Company, St. Louis, Mo. Apparatus for cleansing bottles. 2,655,929, Oct. 20.

Herrenschmidt, Suzanne S. D., administratrix: *See*— Le Renard, Louis G. M.

Herrick, Roswell H., Lorain, Ohio, and E. M. Roschke, Broadview, Ill., assignors to Zenith Radio Corporation. Subscriber signaling system. 2,656,407, Oct. 20.

Herrick, Roswell H., Lorain, Ohio, and E. M. Roschke, Broadview, Ill., assignors to Zenith Radio Corporation. Subscriber signaling system. 2,656,410, Oct. 20.

Hershberg, Emanuel B., West Orange, N. J., and E. P. Oliveto, Long Island City, N. Y., assignors to Schering Corporation, Bloomfield, N. J. Manufacture of 17-keto steroids. 2,656,364, Oct. 20.

Herzog, Gerhard, Houston, Tex., assignor to The Texas Company, New York, N. Y. Prospecting. 2,656,470, Oct. 20.

Herzog, Gerhard, Houston, Tex., assignor to The Texas Company, New York, N. Y. Prospecting. 2,656,471, Oct. 20.

Heuer, Russell P., Villanova, Pa., assignor to General Refractories Company. Unburned refractory brick. 2,656,279, Oct. 20.

Heuer, Russell P., Villanova, Pa., assignor to General Refractories Company. Stabilizing chrome ores of the transvaal type for refractory brick. 2,656,280, Oct. 20.

Hewitt, John C., Jr., Long Beach, Calif. Directional indicating instrument. 2,656,505, Oct. 20.

Hicks, Howard L.: *See*— Aitchison, Robert B., Hicks, and Craig.

Hilpman, Paul: *See*— Abbott, William B., and Hilpman.

Hindall, Alva L.: *See*— Carson, William D., and Hindall.

Hindall, Alva L., and W. D. Carson, Muncie, Ind., assignors to General Motors Corporation, Detroit, Mich. Method and apparatus for curing positive storage battery plates. 2,656,399, Oct. 20.

Hines, Claude M., Verona, Pa., assignor to Westinghouse Air Brake Company. Combined pneumatic and dynamic brake apparatus. 2,656,222, Oct. 20.

Hirt, Hugh H., Riverside, Calif. Curb type reflectorized directional street sign. 2,655,748, Oct. 20.

Hites, Hubert V., Springfield, assignor to The Ohio Steel Foundry Company, Lima, Ohio. Molding core and reusable knockdown arbor therefor. 2,655,701, Oct. 20.

Hoagland, Earl J., Chicago, Ill., assignor to Standard Safety Equipment Co. Detachable hermetic sealing joint for garments. 2,655,663, Oct. 20.

Hoague-Sprague Corporation, assignee: *See*— Sillars, George S.

Hochberg, Frederick: *See*— Fischbach, Adolph, and Hochberg.

Hodge, Alfred A.: *See*— Gonda, Desiré, and Hodge.

Hodgkins, Hollis C., Chippewa Falls, Wis., assignor to United States Rubber Company, New York, N. Y. Collapsible building drum. 2,655,977, Oct. 20.

Hodnette, John K., Pittsburgh, and M. G. Leonard, Sharon, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker operating mechanism. 2,656,438, Oct. 20.

Hodson, Peter, Wellsville, and E. A. Lundstrom, Valley Stream, assignors to The Air Preheater Corporation, New York, N. Y. Plate type heat exchanger and manufacturing same. 2,656,158, Oct. 20.

Hodson, Waldo G., Burbank, and W. E. Peterson, Los Angeles, assignors to Northrop Aircraft, Inc., Hawthorne, Calif. Telemetering system. 2,656,523, Oct. 20.

Hoelsch, Edward H., Worcester, assignor to Perkins Machine & Gear Company, West Springfield, Mass. Spring coiler. 2,655,973, Oct. 20.

Hofer, Rolf, Kusnacht (Zurich), Switzerland. Ticket control apparatus. 2,655,863, Oct. 20.

Hogg, John A., J. Korman, W. B. Reid, Jr., and A. H. Nathan, assignors to The Upjohn Company, Kalamazoo, Mich. Cyclohexanols. 2,656,385, Oct. 20.

Hogg, John A., J. Korman, W. B. Reid, Jr., and A. H. Nathan, assignors to The Upjohn Company, Kalamazoo, Mich. Aminoethylhydrocarbonoxycyclohexenes. 2,656,386, Oct. 20.

Hohnadel, Charles H., Kermit, Tex., assignor to Phillips Petroleum Company. Apparatus for pelleting chain structure carbon black. 2,656,257, Oct. 20.

Holden, Elmer H., Bethpage, N. Y. Multiple purpose cultivator attachment. 2,655,855, Oct. 20.

Holley Carburetor Company, assignee: *See*— Udale, Stanley M.

Holm, Danckert K., Oslo, Norway. Guide device for industrial flat belts, ropes, or the like. 2,655,814, Oct. 20.

Holm, Sven: *See*— Lyerly, Ray L., and Holm.

Holm, Sven, and W. E. Hammond, Wellsville, assignors to The Air Preheater Corporation, New York, N. Y. Laminated heat exchanger. 2,656,159, Oct. 20.

Holoplast Limited, assignee: *See*— Gonda, Desiré, and Hodge.

Holsman, George, Walnut Creek, and G. M. Good, Albany, assignors to Shell Development Company, Emeryville, Calif. Isomerization and separation of xylenes. 2,656,397, Oct. 20.

Hoover, John R., Stow, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Sheet rubber having a nonsticking liner and making same. 2,656,292, Oct. 20.

Horns, Winfield F., Kankakee, Ill. Automatic film advancer for roll film cameras and brake and release means therefor. 2,656,128, Oct. 20.

Hosemaster Machine Company Limited, assignee: *See*— Wickardt, Kurt W.

Houpt, Alfred G.: *See*— Christmann, Ludwig J., and Houpt.

Howard, Ben O., Los Angeles, Calif. Stabilizing tab. 2,656,132, Oct. 20.

Howell, Edward N., Holmes, Pa. Sheave. 2,655,812, Oct. 20.

Hube, Gottfried E., assignor, by mesne assignments, to Pacific Laboratories, Inc., Bellingham, Wash. Apparatus for separating the flesh from the skin of fish. 2,655,688, Oct. 20.

Huch, William F., St. Paul, Minn., assignor to General Mills, Inc. Multiple gore balloon manufacturing process. 2,656,293, Oct. 20.

Hughes, Arthur C., Jr., Puente, Calif., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Return mechanism. 2,656,178, Oct. 20.

Hughes, Lafayette M., assignee: *See*— Herbold, Robert J.

Hunt, Warren L., Mount Holly Springs, Pa. Covering a bowling pin. 2,656,294, Oct. 20.

Hunter, Edward A., and C. N. Kimberlin, Jr., Baton Rouge, La., assignors to Standard Oil Development Company. Making alumina hydrosols. 2,656,321, Oct. 20.

Hurley, Wilbert, Flora, Ind. Thermostatically controlled milk cooler. 2,656,134, Oct. 20.

Hutton, James L., Greensboro, N. C. Support for computing machines and the like. 2,656,098, Oct. 20.

Hydropress, Incorporated, assignee: *See*— Cosso, Giuseppe.

Iddings, Charles D.: *See*— Woolslayer, Homer J., Iddings, and Eaton.

Imperial Paper and Color Corporation, assignee: *See*— Van Wirt, Alfred E., and Jones.

Ingwer, Max, Kew Gardens Hills, assignor to Consolidated Sewing Machine & Supply Co., Inc., New York, N. Y. Machine attached needle threader. 2,655,886, Oct. 20.

Inland Steel Company, assignee: *See*— De Marchi, Vincent S. Pennington, James W.

Inman, Jack G., Carrollton, Ill. Holder for spools of wrapping cord. 2,656,130, Oct. 20.

Institute of Gas Technology, assignee: *See*— Pettyjohn, Elmore S. Yellott, John I.

Institute of Inventive Research, assignee: *See*— Poulter, Thomas C.

International Paper Company, assignee: *See*— Williamson, Oscar H.

International Steel Company, assignee: *See*— Koch, Walter G.

Irrgang, Louis, Jersey City, N. J., assignor to Etteo Tool Co., Inc., Brooklyn, N. Y. Jaw keying means for chuck devices. 2,656,193, Oct. 20.

Isberg, Reuben A., Lynbrook, N. Y., assignor to the United States of America as represented by the Secretary of the Navy. Recorder head. 2,656,420, Oct. 20.

Ischer, Hans: *See*— Knecht, Oscar, and Ischer.

Jackson, Hagan L., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Tune-up system for radar. 2,656,534, Oct. 20.

Jackson, Kenneth R.: *See*— Tauscher, Vernon A., Mullins, Jackson, and Lyon.

Jackson, Kenneth R., Alhambra, Calif., assignor to North American Aviation, Inc. Time-modulated two-stage hydraulic valve. 2,655,940, Oct. 20.

Jacobs, Karl M., Fowler, Ind. Article of furniture. 2,655,983, Oct. 20.

Jacobsen, Robert P., Shrewsbury, Mass., assignor to G. D. Searle & Co., Chicago, Ill. α-aryl-9-oxodehydroabietinols. 2,656,345, Oct. 20.

Jacques Loewe Research Foundation, The, assignee: *See*— Loewe, Leo.

Janonis, George, Detroit, Mich. Door latch structure. 2,656,206, Oct. 20.

Jeffrey Manufacturing Company, The, assignee: *See*— Moon, Sterling C. Whitney, Paul V.

Jeffreys, Roy A.: *See*— Aubert, Per, Jeffreys, and Knott.

Jeffreys, Roy A., and E. B. Knott, Harrow, England, assignors to Eastman Kodak Company, Rochester, N. Y. Sensitizing dyes containing a 2-thio-2,5(3,4)-thiazolidione nucleus. 2,656,353, Oct. 20.

Jenkins, Phil H., Columbus, Ohio. Turnover mechanism. 2,656,051, Oct. 20.

Jennings, Dorothea C., assignee: *See*— Conaway, Ernest A.

Jernstrom, Karl W., Verona, N. J., assignor to Seaboard Machinery Corporation, New York, N. Y. Hatch cover. 2,655,889, Oct. 20.

Jochem, Theodore B., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Time delay relay. 2,656,434, Oct. 20.

Johannesen, George T., Mount Lebanon, Pa., assignor to Koppers Company, Inc. Production of diphenylamine. 2,656,389, Oct. 20.

Johansen, Einar K., Oak Park, assignor to Clearing Machine Corporation, Chicago, Ill. Gap frame press. 2,656,028, Oct. 20.

Johnson, Arthur C., Breedsville, Mich. Dispensing container for fishing leaders. 2,656,131, Oct. 20.

Johnson, Edward W.: *See*— Lehane, Timothy J., and Johnson.

Johnson, Eric C.: *See*— Davis, Howard G., Jr., Durette, and Johnson.

Johnson, John L., Catonsville, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Radio frequency coupling apparatus. 2,656,517, Oct. 20.

Johnson, Melvin M., trustee, assignee: *See*— Johnson, Melvin M., Jr.

Johnson, Melvin M., Jr., Brookline, assignor to M. M. Johnson and M. M. Johnson, Jr., trustees of the Johnson Patent Trust, Boston, Mass. Automatic gun. 2,655,837, Oct. 20.

Johnson, Montgomery H.: *See*— Hansen, William W., and Johnson.

Johnson, Oscar W.: *See*— Best, Leon H., and Johnson.

Johnson Patent Trust, the trustee, assignee: *See*— Johnson, Melvin M., Jr.

Johnson, Sidney P., Washington, D. C. Feeler apparatus for controlling wrench rotation. 2,655,827, Oct. 20.

Johnson, William B., Far Hills, assignor to The M. W. Kellogg Company, Jersey City, N. J. Manufacture of hydrogen. 2,656,255, Oct. 20.

Johnston, Joseph M., Bradley Beach, N. J., J. B. Olsen, Brooklyn, N. Y., and J. A. Moulden, Red Bank, N. J. Compressional wave telemetering device. 2,656,458, Oct. 20.

Jones, George F.: *See*— Van Wirt, Alfred E., and Jones.

Jones, Horry M., Chicago, Ill. Measuring device. 2,655,914, Oct. 20.

Jones, Jarmau M. L., assignor to Riddell Products Limited, London, England. Inhalation apparatus. 2,655,918, Oct. 20.

Jordan, James D., Silver Spring, Md., assignor to the United States of America as represented by the Secretary of the Navy. Fuze. 2,655,867, Oct. 20.

Joris, George G., Madison, and W. D. Griffin, Morristown, N. J., assignors to Allied Chemical & Dye Corporation, New York, N. Y. Oxidation of a naphthyl dialkyl methine. 2,656,394, Oct. 20.

Joy Manufacturing Company, assignee: *See*— Felderman, Lloyd G., and Knoizen. Haegele, Otto P.

Jozwiak, Stanislaw, assignee: *See*— Kostro, Wladyslaw.

Kafka, Robert S., Woodside, assignor to Midland Equipment Corp., New York, N. Y. Labeling apparatus. 2,656,063, Oct. 20.

Kaschak, Anthony H., Bristol, Conn. Sliding mailbox apparatus. 2,656,138, Oct. 20.

Katz, Leon: *See*— Grant, F. Eugene, and Katz.

Kaufmann, Stephen: *See*— Nedmann, Francisco, Pataki and Kaufmann.

Kaynar Manufacturing Company, assignee: *See*— Ammen, Francis D.

Keeton, James C., and E. B. Cones, Oklahoma City, Okla. Vehicle speed control system. 2,656,002, Oct. 20.

Kelite Products, Inc., assignee: *See*— Miller, Dariel E.

Kellogg, M. W., Company, The, assignee: *See*— Johnson, William B.

Kellogg Switchboard and Supply Company, assignee: *See*— Arthur, Richard P.

Kennedy, Walter, deceased, Cliffside Park, N. J.; The United National Bank of Cliffside Park, Bergen County, N. J., administrator, assignor to W. D. Kennedy, Englewood, N. J. Commercial swingable burner unit. 2,655,912, Oct. 20.

Kennedy, Walter, deceased, Cliffside Park, N. J.; The United National Bank of Cliffside Park Bergen County, N. J., administrator, assignor to W. D. Kennedy, Englewood, N. J. Radiant gas burner. 2,655,991, Oct. 20.

Kennedy, William D., assignee: *See*— Kennedy, Walter.

Kent, Moss A., White Plains, N. Y. Suction cleaner. 2,656,009, Oct. 20.

Keogh, Hedley B., Thornbury, Victoria, Australia. Mobile apparatus for working on roadways or the like. 2,655,678, Oct. 20.

Kerwin, James F., and G. E. Ullyot, assignors to Smith, Kline & French Laboratories, Philadelphia, Pa. Fluorene derivatives. 2,656,387, Oct. 20.

Kessler, Frank, Rochester, N. Y., assignor to Stromberg-Carlson Company. Line finder dual-allotter system. 2,656,416, Oct. 20.

Keuffel & Esser Company, assignee: *See*— Neugebauer, Wilhelm and Reichel.

Kilburg, James, Burlingame, assignor to James Kilburg Corporation, San Mateo, Calif. Automatic telephone dialer. 2,656,417, Oct. 20.

Kilburg, James, Corporation, assignee: *See*— Kilburg, James.

Kimbell, Mignon: *See*— Land, Marion C., and Kimbell.

Kimberlin, Charles N., Jr.: *See*— Hunter, Edward A., and Kimberlin.

Kimberlin, Charles N., Jr., and W. F. Arey, Jr., Baton Rouge, La., assignors to Standard Oil Development Company. Hydrocarbon segregation utilising urea and a nitrile. 2,656,342, Oct. 20.

King, Archie P., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave guide transducer. 2,656,513, Oct. 20.

Kingsbury, Chadwick B., Elizabethton, and R. H. Carter, Johnson City, Tenn., assignors to North American Rayon Corporation, New York, N. Y. Tension control device for textile thread. 2,656,126, Oct. 20.

Kinsella, John, Luton, assignor to D. Napier & Son Limited, London, England. Apparatus for detecting the occurrence or approach of icing conditions. 2,656,525, Oct. 20.

Kinzbach, Robert B., Houston, Tex. Pressure relief valve assembly. 2,655,935, Oct. 20.

Kirk, Robert L., assignee: *See*— Hart, Stacy R.

Kiwad, Isadore, Westwood, N. J. Toe protector. 2,655,917, Oct. 20.

Klavon, Theodore M., Jackson, assignor to Universal Vice & Tool Company, Parma, Mich. Workholder for drill presses. 2,655,822, Oct. 20.

Klenk, Karl J., Wilmington, Del. Cam closing hand tool. 2,655,722, Oct. 20.

Kline, John E., Grosse Pointe Farms, assignor to Micromatic Hone Corporation, Detroit, Mich. Honing tool for external cylindrical surfaces. 2,655,771, Oct. 20.

Knappwost, Adolf, Neuhausen (Urach), Germany, assignor, by mesne assignments, to Vivadent Corporation, Boston, Mass. Device for producing bactericide OH-ions through electrolysis for dental treatment. 2,655,922, Oct. 20.

Knappwost, Adolf, Neuhausen near Urach, Germany, assignor, by mesne assignments, to Vivadent Corporation, Boston, Mass. Underfilling material for tooth-fillings. 2,656,277, Oct. 20.

Knaus, Nicholaus, Cranford, and A. G. Millington, Clifton, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Thread breaking means for sewing machines. 2,655,887, Oct. 20.

Knecht, Oscar, and H. Ischer, assignors to Sandoz Limited, Basel, Switzerland. Dis- and polyazo dyestuffs and making same. 2,656,346, Oct. 20.

Knoizen, Arthur S.: *See*— Felderman, Lloyd G., and Knoizen.

Knott, Edward B.: *See*— Aubert, Per, Jeffreys, and Knott. Jeffreys, Roy A., and Knott.

Knott, Edward B., and L. A. Williams, Harrow, England, assignors to Eastman Kodak Company, Rochester, N. Y. Quaternary salt dyes derived from 2-tertiaryamino-5(4)-thiazolones. 2,656,352, Oct. 20.

Knowles Associates, assignee: *See*— Chelminski, Roman.

Knowlton, Fred, Oxford, Kans. Concrete dumping device. 2,656,164, Oct. 20.

Koch, Clarence W., St. Louis, Mo. Lock for typewriter desks. 2,656,234, Oct. 20.

Koch, Walter G., assignor to International Steel Company, Evansville, Ind. Laying sheet metallic flooring. 2,655,715, Oct. 20.

Koppers Company, Inc., assignee: *See*— D'Alello, Gaetano F. Johannesen, George T.

Korman, Jerome: *See*— Hogg, John A., Korman, Reid, and Nathan.

Kornberg, Howard G., Fargo, N. Dak. Device for mixing and feeding fertilizer. 2,656,072, Oct. 20.

Kostro, Wladyslaw, deceased, Kensington, London, assignor of one-half to S. Joswiak, London, England; R. Dabrowski, executor. Sewing machine. 2,655,885, Oct. 20.

Krows, Arthur E., Hastings-on-Hudson, N. Y. Dissolve type shutter for dual projection apparatus. 2,655,833, Oct. 20

Krueger, Edward C., and A. L. Vander Linde, assignors to Hammond Machinery Builders, Incorporated, Kalamazoo, Mich. Work clamp and aligning gauge for sawing machines. 2,655,959, Oct. 20.

Kulka, Marshall, Guelph, Ontario, and J. C. R. Warren, Elmira, Ontario, Canada, assignors to United States Rubber Company, New York, N. Y. Preparation of 2,4-dichlorophenoxyacetic acid. 2,656,382, Oct. 20.

Kump, Edward T., Euclid, Ohio. Handle. 2,656,210, Oct. 20.

Kushner, Samuel, Nanuet, assignor to American Cyanamid Company, New York, N. Y. 1-piperazyl-4-methylthioxanthones and preparing same. 2,656,357, Oct. 20.

Labbee, Joseph A., Jr., Providence, R. I. Screw taper drill attachment. 2,655,964, Oct. 20.

La Coe, Ralph D., Jr., San Diego, Calif. Projector temperature indicating slide. 2,655,810, Oct. 20.

La Fountaine, Timothy, J., Detroit, Mich. Sign structure. 2,655,749, Oct. 20.

Lagant, Silas P., Pocahontas, Ill. Flexible shaft driven tree trimmer powered by a motor towed by the operator. 2,655,957, Oct. 20.

Lagrange, Victor E., Lake Charles, La. Heating apparatus for fuel tanks. 2,655,792, Oct. 20.

L'Air Liquide Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude, assignee: *See*— Le Renard, Louis G. M.

Land, Marion C., and M. Kimbell, Birmingham, Ala. Fruit jar and the like holder. 2,655,824, Oct. 20.

Landis Machine Company, assignee: *See*— Eyler, Roy I.

Langlykke, Asger F.: *See*— McCormack, Robert B., Langlykke, and Periman.

Lapsley, Robert, assignor to Clark Equipment Company, Buchanan, Mich. Brake construction. 2,656,015, Oct. 20.

Larsen, Lyle V., Chicago, Ill., assignor to Chicago Bridge & Iron Company. Condensate stripper. 2,656,262, Oct. 20.

Larsen, Lyle V., Chicago, Ill., assignor to Chicago Bridge & Iron Company. Connector for liquid storage tanks. 2,656,263, Oct. 20.

Laur, Albert, Heidelberg-Baden, Germany. Method of and apparatus for fluoroscoping and radiographing renal organs of the human body. 2,656,469, Oct. 20.

Lawson, Frans O., Greensboro, N. C. Emergency acting control unit for fluid brakes. 2,656,145, Oct. 20.

Leavitt, Roger P.: *See*— White, William M., and Leavitt.

Leber, Benjamin F., Chicago, Ill. Multiple steering head tricycle. 2,656,197, Oct. 20.

Lee Engineering Company, assignee: *See*— Lee, Royal.

Lee, Henry A., Montevideo, Minn. Roof shingling strip. 2,655,879, Oct. 20.

Lee, John M., Philadelphia, Miss. Tractor-mounted cultivator. 2,655,853, Oct. 20.

Lee, Robert J., La Marque, and P. D. May, Galveston, assignors to Pan American Refining Corporation, Texas City, Tex. Refining hydrocarbon resins. 2,656,303, Oct. 20.

Lee, Royal, Elm Grove, assignor to Lee Engineering Company, Milwaukee, Wis. Inertia differentially modified governor. 2,656,175, Oct. 20.

Lefief, Frank M.: *See*— Baker, Thomas R., and Lefief.

Leggett, Joseph H., Bloomfield, and R. M. Moyer, Great Notch, N. J., assignors to Curtiss-Wright Corporation. Dynamic engine mount. 2,656,137, Oct. 20.

Lehane, Timothy J., North Riverside, and E. W. Johnson, assignors to Vapor Heating Corporation, Chicago, Ill. Temperature control system. 2,656,111, Oct. 20.

Leighton, Herndon W., Montclair, assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J. Electron gun centering device for cathode-ray tubes. 2,656,481, Oct. 20.

Leland, Ted, Sacramento, Calif. Pneumatic ash tray for automotive vehicles. 2,656,039, Oct. 20.

Lenehan, Bernard E., Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Watthour meter having preformed current windings. 2,656,512, Oct. 20.

Lenke, George H., Elmhurst, assignor of one-half to J. J. Ohlis, Oak Park, Ill. Grid construction for rooflight. 2,655,881, Oct. 20.

Lentz, David M., Maple Heights, Ohio. Heated wiper mechanism. 2,656,448, Oct. 20.

Leonard, Merrill G.: *See*— Hodnette, John K., and Leonard.

Le Renard, Louis G. M., deceased, by S. S. D. Le Renard, née Herrenschmidt, administratrix, assignor to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude, Paris, France. Mixer for gas burners. 2,655,992, Oct. 20.

Le Renard, Suzanne S. D.: *See*— Le Renard, Louis G. M.

Lewis, Joseph H., assignor to Blue Ridge Glass Corporation, Kingsport, Tenn. Door hinge. 2,655,685, Oct. 20.

Lewis, Thomas G., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Lapping machine. 2,655,769, Oct. 20.

Lewis, Thomas G., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Backing for laps. 2,655,772, Oct. 20.

Lewis, Thomas G., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Lapping method and tool. 2,655,775, Oct. 20.

Libbey-Owens-Ford Glass Company, assignee: *See*— Walters, Emmett L.

Liddell, George J., Springfield, assignor to Sun Oil Company, Philadelphia, Pa. Engine oil consumption apparatus. 2,656,177, Oct. 20.

Lindars, Herman, Sheffield, England. Automatic operation controller having predetermining means. 2,656,109, Oct. 20.

Lindau, Fred I., Beloit, and R. C. Glazebrook, Turtle Ridge, Wis., assignors to Fairbanks, Morse & Co., Chicago, Ill. Bladeless pump impeller. 2,655,868, Oct. 20.

Linder, Winfred T., Spartanburg, S. C. Watch oiler. 2,656,070, Oct. 20.

Lindgren, Vincent V., Darien, and J. T. Cassaday, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Fluorine containing urea derivatives. 2,656,384, Oct. 20.

Lindow, Rudolph F., Wauwatosa, assignor to Chain Belt Company, Milwaukee, Wis. Distributing bucket for adjustable angle booms. 2,656,056, Oct. 20.

Linsley, John W., Jr., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Stencil clamping device for duplicating machines. 2,655,866, Oct. 20.

Lipman, Maurice S., Hempstead, assignor to Republic Aviation Corporation, near Farmingdale, N. Y. Drain valve. 2,655,932, Oct. 20.

Lipschitz, Joseph, Hillside, N. J. Card game apparatus. 2,655,736, Oct. 20.

Lizenbee, Randel E., Advance, Mo. Weed deflector and tying wire guide for baling presses. 2,655,861, Oct. 20.

Lock, Frank, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Hoist construction. 2,656,150, Oct. 20.

Locke, Walter F., Emsworth, assignor to Fireproof Tanks Limited, London, England. Improving the flame resistance of metal and product. 2,656,295, Oct. 20.

Lockhart, Robert W., assignor to Stewart-Warner Corporation, Chicago, Ill. Oscillographic plotting system. 2,656,536, Oct. 20.

Lockie, Edward G., Bettendorf, Iowa. Golf ball retriever. 2,656,061, Oct. 20.

Loeff, George D.: *See*— Ernst, Robert, and Loeff.

Loewe & Co. A. G., assignee: *See*— Vogler, Bruno.

Loewe, Leo, Brooklyn, assignor to The Jacques Loewe Research Foundation, New York, N. Y. Therapeutic product. 2,656,296, Oct. 20.

London, Coleman, Baltimore, and R. H. Foy, Linthicum Heights, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Performance indicator arrangement for wave energy systems. 2,656,533, Oct. 20.

Longenecker, Levi S., Pittsburgh, Pa. Means for charging scrap metal. 2,656,055, Oct. 20.

Longini, Richard L., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Precision evaporation of antimony. 2,656,287, Oct. 20.

Loper, George B., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Gain control system for seismic amplifiers. 2,656,422, Oct. 20.

Lovin, James, Sacramento, Calif. Linoleum remover. 2,655,976, Oct. 20.

Lowrey, Aubrey, Shreveport, La. Power actuated adjustable tire demounting bar. 2,655,984, Oct. 20.

Loyola University Foundation, assignee: *See*— Russell, Fred J., Dietrich, and Solovieff.

Lucas, Joseph, Limited, assignee: *See*— Collinson, Eric S. Downing, Eric W. Harris, Thomas A.

Ludwig, Bernard J.: *See*— Berger, Frank M., and Ludwig.

Lueders, Ervin J., Wauwatosa, Wis. Protective device for the eyes. 2,655,657, Oct. 20.

Lundstrom, Ernest A.: *See*— Hodson, Peter, and Lundstrom.

Lunkenheimer Company, The, assignee: *See*— Fantz, Fred C.

Lybarger, Samuel F., Cannonsburg, assignor, by mesne assignments, to E. A. Myers & Sons, Inc., Mount Lebanon, Pittsburgh, Pa. Wearable hearing aid with inductive pickup for telephone reception. 2,656,421, Oct. 20.

Lyerly, Ray L., and S. Holm, Wellsville, assignors to The Air Preheater Corporation, New York, N. Y. Tab strip fin for heat exchanger cores. 2,656,160, Oct. 20.

Lynam, John E., Mapperley, Nottingham, assignor to William Cotton Limited, Loughborough, Leicestershire, England. Knitting and other textile machine. 2,655,801, Oct. 20.

Lyon, William D.: *See*— Tauscher, Vernon A., Mullins, Jackson, and Lyon.

Lytton, Marion R., West Chester, Pa., assignor, by mesne assignments, to The Chemstrand Coropration, Decatur, Ala. Copolymers of butene-1 derivatives. 2,656,338, Oct. 20.

MacDonald, Paul, Lake Forest, assignor to Sears, Roebuck and Co., Chicago, Ill. Roofing shingle. 2,655,880, Oct. 20.

MacKay, John R., Packanack Lake, N. J., assignor to Wallace & Tiernan Company, Inc. Chlorine concentration sensitive apparatus. 2,656,526, Oct. 20.

Macksy, Johnatone S., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparation of cyanamide. 2,656,253, Oct. 20.

MacKenzie, Alexander, Jr., assignor of one-half to L. O. Setterlund, Springfield, Mass. Rotary, turbine type hydraulic coupling. 2,655,789, Oct. 20.

MacKenzie, James S., and O. H. Axtell, Jr., Corpus Christi, Tex., assignors to Celanese Corporation of America, New York, N. Y. Catalytic decompositions of formic acid in acetic acid mixtures with other organic compounds. 2,656,379, Oct. 20.

MacNeill, John H.: *See*— De Turk, John E., and MacNeill.

MacPherson, Robert R., Jr., Cranford, and O. Schricker, Jr., Roselle, N. J., assignors to Standard Oil Development Company. Continuous fluid hydroforming. 2,656,304, Oct. 20.

Magerlein, Barney J.: *See*— Weisblat, David I., and Magerlein.

Mahr, Julius A., Minneapolis, assignor, by mesne assignments, to H. R. Nielsen, St. Paul, Minn. Means for holding folding tables from shifting when stacked. 2,656,231, Oct. 20.

Mallory, Donald D., assignor to Toledo Scale Company, Toledo, Ohio. Meat chopper. 2,655,967, Oct. 20.

Maloney-Crawford Tank & Manufacturing Company, assignee: *See*— Wilson, Samuel A.

Manecke, Siegfried E., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Deceleration signaling device. 2,655,892, Oct. 20.

Mann, Carl P., Riverton, N. J., assignor to Selas Corporation of America, Philadelphia, Pa. Method and apparatus for heating objects. 2,656,170, Oct. 20.

Mann, Oliver, Danvers, and R. B. Thomas, Beverly, assignors to Sylvania Electric Products Inc., Salem, Mass. Forming lamp filaments. 2,655,952, Oct. 20.

Marien, Melvin W., assignor to Ramsey Corporation, St. Louis, Mo. Piston packing ring. 2,656,228, Oct. 20.

Markley, George E., Cleveland Heights, Ohio. Furnace for heating crucibles and the like. 2,656,171, Oct. 20.

Marra, Daniel A., Cheswick, Pa. Gas torch tip having protective terminal shoe. 2,655,988, Oct. 20.

Marsh, Nat H., Noroton Heights, Conn., assignor to American Cyanamid Company, New York, N. Y. Production of ammonium nitrilotrisulfate. 2,656,252, Oct. 20.

Marshall, Douglas W.: *See*—
Ballard, Archibald H., and Marshall.

Marshall Field & Company, assignee: *See*—
Clark, Eugene F.

Martin, Glenn L., Company, The, assignee: *See*—
Barker, Charles L., and Gavlak.

Martin, James, Higher Denham, near Uxbridge, England. Control of variable pitch airscrews for aircraft. 2,655,998, Oct. 20.

Martin, James V., Paramus, N. J. Flying ship. 2,656,136, Oct. 20.

Martin, Joseph F., Detroit, Mich. Automatic brake release mechanism. 2,656,025, Oct. 20.

Martin, Warren S., Massapequa, N. Y. Apparatus for heat treatment of sewage sludge and method adapted to be carried out therein. 2,655,883, Oct. 20.

Martin, William E., Kewanee, Ill. Interchangeable dual trailer coupling pin. 2,656,195, Oct. 20.

Martino, Joseph F., Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y. Stabilizing acrylonitrile. 2,656,376, Oct. 20.

Martiri, Roberto, Buenos Aires, Argentina. Burner system for liquid fuels. 2,655,989, Oct. 20.

Marvin, Charles H., Lancaster, Calif., assignor to The Stead Rail Anchor Company Limited, Montreal, Quebec, Canada. Rail anchor. 2,656,117, Oct. 20.

Masek, Walter F., assignor to Multiscope, Inc., Richmond, Ind. Moving stairway. 2,656,031, Oct. 20.

Mathes, Roger A., and F. D. Stewart, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Preparation of heterocyclic sulfonic acids. 2,656,354, Oct. 20.

Matheson, George L., deceased; The Summit Trust Company, Summit, N. J., the alternate executor of said G. L. Matheson, assignor to The Standard Oil Development Company. Apparatus and process for handling fluidized solids. 2,656,242, Oct. 20.

Mathieson Chemical Corporation, assignee: *See*—
McCormack, Robert B., Langlykke, and Perlman.

Mathiesen, Nicolaus P., Drammen, Norway. Card index device. 2,656,091, Oct. 20.

Mathieu, Henri J. P.: *See*—
Thibon, Honore J., and Mathieu.

Matthias, Lynn H., Fox Point, and H. Petersen, Wauwatosa, assignors to Allen-Bradley Co., Milwaukee, Wis. Arc extinguishing electrical switch apparatus. 2,656,442, Oct. 20.

Maurer, Winfield G., U. S. Navy, and D. V. M. Green, Camden County, N. J. Automatic airspeed control system for aircraft. 2,656,133, Oct. 20.

Mavity, Julian M.: *See*—
Bielawski, Mitchell S., and Mavity.

May, Harry C., East McKeesport, Pa., assignor to Westinghouse Air Brake Company. Direction sensing device. 2,655,938, Oct. 20.

May, Paul D.: *See*—
Lee, Robert J., and May.

Maynard, Arthur H., Westerly, R. I., assignor to Bostitch, Inc., Stonington, Conn. Rotary wire-stitching machine. 2,655,654, Oct. 20.

Mazzola, Ambrose, Southgate, assignor to Angelus Engineering Corporation, Maywood, Calif. Tractor. 2,655,871, Oct. 20.

McCammant, Leonard H., assignor to Geo. D. Roper Corporation, Rockford, Ill. Pilot burner heat dissipator. 2,655,913, Oct. 20.

McCarthy, Robert B., Cleveland, Ohio, assignor to General Electric Company. Suction cleaner nozzle and brush. 2,655,682, Oct. 20.

McClelland, Kenneth, Chicago, Ill. Belt drive for grind mill roll stands. 2,655,815, Oct. 20.

McComb, William P., Jr., Conroe, Tex. Log debarker having revolving flails. 2,655,961, Oct. 20.

McCormack, Robert B., and A. F. Langlykke, Highland Park, and D. Perlman, Princeton, N. J., assignors, by mesne assignments, to Mathieson Chemical Corporation, Baltimore, Md. Producing streptomycin and vitamin B_{12}. 2,656,300, Oct. 20.

McCune, Joseph C., Edgewood, Pa., assignor to Westinghouse Air Brake Company. Friction element for disk brakes. 2,656,020, Oct. 20.

McCune, Joseph C., Edgewood, Pa., assignor to Westinghouse Air Brake Company. Reinforced cast brake shoe. 2,656,022, Oct. 20.

McDonald, Neil J., assignor to Fairmont Railway Motors, Inc., Fairmont, Minn. Railway motor vehicle. 2,655,873, Oct. 20.

McFarland, Donald L., and W. E. Moore, Stratford, Conn., assignors to General Electric Company. Unitary steam and temperature control for steam irons. 2,655,746, Oct. 20.

McGough, Frank C., Youngstown, Ohio. Operating soaking pits. 2,656,172, Oct. 20.

McGraw Electric Company, assignee: *See*—
Osterheld, Clark M.
Putz, Hector R.
Van Ryan, Anthony.

McKee, Chester W. and R. W., assignors to Teledetector, Inc., Chicago, Ill. Rail car fissure detecting apparatus. 2,656,503, Oct. 20.

McKee Door Company, assignee: *See*—
McKee, James H., and Hartsler.

McKee, James H., Aurora, and M. E. Hartsler, Downers Grove, assignors to McKee Door Company, Aurora, Ill. Overhead door. 2,655,683, Oct. 20.

McKee, Richard W.: *See*—
McKee, Chester W. and R. W.

McMillan, Brockway, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Bidirectional counter. 2,656,460, Oct. 20.

McNeil, Crichton, Salt Lake City, Utah. Apparatus for making blood films. 2,655,898, Oct. 20.

Mecres, S. A., assignee: *See*—
Stern, Maurice.

Menendez, Carlos, assignee: *See*—
Ramos, Hector O.

Merck & Co., Inc., assignee: *See*—
Graber, Robert P., and Wendler.
Minlon, Huang.
Schulta, Everett M.
Sprague, James M.

Mergenthaler Linotype Company, assignee: *See*—
Abbott, William B., and Hilpman.

Merrion, Howard J.: *See*—
Elias, William, and Merrion.

Metal Hydrides Incorporated, assignee: *See*—
Bragdon, Robert W.

Metallgesellschaft Aktiengesellschaft, assignee: *See*—
Arnold, Erich, Heilmann, and Vollmer.

Metsky, Marvin: *See*—
Shapiro, Augustus E., and Metsky.

Micromatic Hone Corporation, assignee: *See*—
Kline, John E.

Middleton, William H.: *See*—
Earl, Charles W., and Middleton.

Midgley, Albert H., assignor of one-half to A. M. Midgley, Northwood, England. Electric switch. 2,656,423, Oct. 20.

Midgley, Albert M., assignee: *See*—
Midgley, Albert H.

Midland Equipment Corp., assignee: *See*—
Kalka, Robert S.

Miescher, Karl R., A. Wettstein, and J. Schmidlin, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. Steroids having a 17-positioned semicyclic double bond. 2,656,348, Oct. 20.

Miescher, Karl R., A. Wettstein, and J. Schmidlin, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. Oxo-steroids and making same. 2,656,365, Oct. 20.

Mihalyi, Joseph, and H. A. Bing, assignors to Eastman Kodak Company, Rochester, N. Y. Range finder adjusting mechanism. 2,655,832, Oct. 20.

Miller, Bertrand J.: *See*—
Morris, George V., and Miller.

Miller, Daniel E., East Los Angeles, assignor to Kelite Products, Inc., Los Angeles, Calif. Process and composition for washing glass. 2,656,289, Oct. 20.

Miller, Herbert T., Houston, Tex. Removable drop-in type back-pressure valve for drill strings. 2,656,151, Oct. 20.

Miller, Homer H., Bridgeport, Conn., assignor to General Electric Company. Waffle iron and improved expansion hinge therefor. 2,655,687, Oct. 20.

Miller, Leo A., J. H. Dunn, and C. M. Neher, Baton Rouge, La., assignors to Ethyl Corporation, New York, N. Y. Photochemical production of benzene hexachloride. 2,656,313, Oct. 20.

Miller, Patricia C.: *See*—
Conaway, Ernest A.

Milliken, Albert E., Kingston, N. Y. Slide file. 2,656,239, Oct. 20.

Millington, Agnes G.: *See*—
Knaus, Nicholaus, and Millington.

Mills, George L., Auburn, Maine, assignor to Bates Manufacturing Company. Terry weave fabric. 2,655,950, Oct. 20.

Miloche, Herman A., Teaneck, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wire connecting tool. 2,655,953, Oct. 20.

Minlon, Huang, Metuchen, assignor to Merck & Co., Inc., Rahway, N. J. Water-soluble esters of cortisone and related compounds. 2,656,366, Oct. 20.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Du Bois, Robert C.
Hagen, Jerry.

Mitchell, Garland W., Butner, N. C. Cigarette lighter filling plug. 2,656,067, Oct. 20.

Mitnick, Jacob J., Chicago, Ill. Fruit juice extractor. 2,655,862, Oct. 20.

Mittleman, Myron B.: *See*—
Goodstein, Charles B., and Mittleman.

Moeller, William C., assignor to Parmelee Plastic Company, Kansas City, Mo. Vented face shield for welders. 2,655,656, Oct. 20.

Mohr, John E., Springfield, Ill., and M. A. Stickelber, Kansas City, Mo., assignors to Stickelber & Sons, Inc. Deflecting, guiding, and sizing means for loaf molding mechanisms. 2,655,875, Oct. 20.

Monsanto Chemical Company, assignee: *See*—
Gamrath, Harry R.

Montano, Ciriaco, assignee: *See*—
Varona, Eulalio M., Oscar B., and Olivio B.

Moon, Sterling C., Worthington, Ohio, assignor to The Jeffrey Manufacturing Company. Truck for drill and mining machines. 2,656,152, Oct. 20.

Moore, Lee C., Corporation, assignee: *See*—
Campbell, Erwin A.
Woolslayer, Homer J., Iddings, and Eaton.

Moore, Walter E.: *See*—
McFarland, Donald L., and Moore.

Morgan, Herbert T., Santa Ana, Calif. Butt-gauging tool. 2,655,732, Oct. 20.

Morgan, Lemuel J.: *See*—
Fischer, John J., and Morgan.

Morgantown Glassware Guild, Inc., assignee: *See*—
Haden, Joseph R.

Morin, Louis H., Bronx, N. Y. Apparatus for automatically stopping die casting machines in the event of shot failure. 2,655,699, Oct. 20.

Morris, George V., Melrose Park, and B. J. Miller, Oak Park, Ill., assignors to Zenith Radio Corporation. Subscriber signaling system. 2,656,409, Oct. 20.

Morris, George V., Melrose Park, and B. J. Miller, Oak Park, Ill., assignors to Zenith Radio Corporation. Television subscriber signaling system. 2,656,411, Oct. 20.

Morris, Melvin P., Okmulgee, Okla. Valve for leak patching device for pipe lines. 2,655,946, Oct. 20.

Morrison, James L. D., asignor to V-M Corporation, Benton Harbor, Mich. Driving mechanism for phonographs. 2,655,812, Oct. 20.

Morse Chain Company, assignee: *See*—
Riopelle, Earl F.

Moth-King Corporation, assignee: *See*—
Slatkin, Alfred D.

Moulden, John A.: *See*—
Johnston, Joseph M., Olsen, and Moulden.

Moyer, Robert M.: *See*—
Leggett, Joseph H., and Moyer.

Mueller, Homer L., assignor to The Cleveland Welding Company, Cleveland, Ohio. Bicycle handle bar fork. 2,656,202, Oct. 20.

Mullins, William D., Jr.: *See*—
Tauscher, Vernon A., Mullins, Jackson, and Lyon.

Mullison, Wendell E., assignor to The Dow Chemical Company, Midland, Mich. Method and composition for the control of undesired vegetation. 2,656,265, Oct. 20.

Multiscope, Inc., assignee: *See*—
Masek, Walter F.

Mundell, Clyde S., Carmichaels, Pa. Average computing device. 2,656,100, Oct. 20.

Murphy, Daniel, New Castle, Pa. Pump. 2,655,869, Oct. 20.

Murray Corporation of America, The, assignee: *See*—
Clark, Kendall.

Murray, Herbert C., Hickory Corners, and D. H. Peterson, assignors to The Upjohn Company, Kalamazoo, Mich. 11α-hydroxy-4-androstene-3,17-dione. 2,656,370, Oct. 20.

Murray, Michael F., Eureka, Calif. Tree felling apparatus, including a prime mover-dynamo power plant. 2,655,960, Oct. 20.

Musser, Clarence W., Philadelphia, Pa. Cable and housing connector. 2,656,203, Oct. 20.

Myers, E. A., & Sons, Inc., assignee: *See*—
Lybarger, Samuel F.

Nagy, Rudolph, and R. W. Wollentin, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Zinc silicate phosphor. 2,656,320, Oct. 20.

Napier, D., & Son Limited, assignee: *See*—
Kinsella, John.

Nash Inc., assignee: *See*—
Hatfield, Robert L.

Nathan, Alan H.: *See*—
Hogg, John A., Korman, Reid, and Nathan.
Hogg, John A., Reid, and Nathan.

National Malleable and Steel Castings Company, assignee: *See*—
Willison, Donald.

National Plastic Products Company, The, assignee: *See*—
Samler, Lee F.

National Supply Company, The, assignee: *See*—
Spalding, John D.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Bollinger, Loren E.
Cork, Bruce B.
Ernst, Hans, and Hawley.
Everett, Franklin L.
Gray, Howard A., Jr.
Hughes, Arthur C., Jr.
Isberg, Reuben A.
Jordan, James D.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—Continued.
Neher, Leland K.
Perkins, Joseph R., Jr., and Ames.
Redheffer, Raymond M.
Robinson, Charles V.
Sheppard, Thomas W.
Sherwin, Chalmers W.
Slack, Frederick F.
Stabler, Howard P.
Tinlot, John H.
Yeater, Max L.

Neff, Edward A., Chicago, Ill. Parachute apparatus. 2,656,183, Oct. 20.

Neff, Loren L., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Lubricating oils containing metal salts of a condensation product of a substituted phenol and a vinyl compound. 2,656,316, Oct. 20.

Neff, Loren L., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Lubricating oils containing metal salts of a condensation product of a substituted phenol and an allyl compound. 2,656,317, Oct. 20.

Neher, Clarence M.: *See*—
Miller, Leo A., Dunn, and Neher.

Neher, Eldon P., North Manchester, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio. Flexible shaft coupling. 2,655,798, Oct. 20.

Neher, Leland K., Newton Corner, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Nonreflecting background for testing microwave equipment. 2,656,535, Oct. 20.

Nelson, Arthur W.: *See*—
Protzeller, Harry W.

Nelson, John F., Oregon City, Oreg. Piston ring compressor. 2,655,719, Oct. 20.

Nelson, Warren L., Waltham, Mass. Combined foot and bedcover support. 2,655,668, Oct. 20.

Neufeld, Elizabeth, assignee: *See*—
Gross, Eugene.

Neugebauer, Wilhelm, and M. K. Reichel, Wiesbaden-Biebrich, Germany, assignors to Keuffel & Esser Company, Hoboken, N. J. Developing aged photosensitive material containing silver halide and a chromate. 2,656,271, Oct. 20.

Neumann, Francisco, J. Pataki, and S. Kaufmann, assignors to Syntex S. A., Mexico City, Mexico. Preparing cyclopentanoperhydrophenanthrene derivatives. 2,656,363, Oct. 20.

Newman, Douglas A., Port Washington, assignor to Columbia Ribbon and Carbon Manufacturing Company, Inc., Glen Cove, N. Y. Making planographic plates. 2,655,864, Oct. 20.

Nichols, Proctor W.: *See*—
Whittingham, John C., and Nichols.

Nichols, Talley W., Pasadena, Tex. Toy cap pistol and cartridge. 2,655,755, Oct. 20.

Nicholson, Gordon E.: *See*—
Schweighofer, Horst M., and Nicholson.

Nielsen, Harold R., assignee: *See*—
Mahr, Julius A.

Niemann, Frederick A., assignor to Felt & Tarrant Manufacturing Company, Chicago, Ill. Split clearing mechanism. 2,656,110, Oct. 20.

Norman, Edward A., Jr., assignor to Norman Products Company, Columbus, Ohio. Combination oil-gas fired conversion burner. 2,655,987, Oct. 20.

Norman Products Company, assignee: *See*—
Norman, Edward A., Jr.

Norsk Hydro-Elektrisk Kvaelstofaktieselskab, assignee: *See*—
Calmeyer, Reidar B.

North American Aviation, Inc., assignee: *See*—
Campbell, David H.
Jackson, Kenneth R.
Tauscher, Vernon A., Mullins, Jackson, and Lyon.

North American Rayon Corporation, assignee: *See*—
Kingsbury, Chadwick B., and Carter.

Northrop Aircraft, Inc., assignee: *See*—
Hodson, Waldo G., and Peterson.
Strayer, Chalmers A., and Clifton.

Norton Company, assignee: *See*—
Ballard, Archibald H., and Marshall.

Nouvelle Societe de Construction ci-devant N. Schlumberger & Cie, assignee: *See*—
Gressel, Jules.

Nyquist, Frederick W., assignee: *See*—
Blomstrand, John H.

Odell, Carl H., Morristown, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Liquid-controlling system. 2,655,933, Oct. 20.

O'Dell, James R., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Yarn tensioning device. 2,656,125, Oct. 20.

Odin Corporation, assignee: *See*—
Svenson, Ernest J.

Odinga, Heinrich, heir, administrator: *See*—
Heberlein, Georges and Georg, Weiss, Risch, and Odinga.

Odinga, Theodor: *See*—
Heberlein, Georges, Georg Heberlein, Weiss, Risch, and Odinga.

Ohio Boxboard Company, The, assignee: *See*—
Ellsworth, Ransom C.

Ohio Steel Foundry Company, The, assignee: *See*—
Hites, Hubert V.

Ohlheiser, Carlton E., assignor to The American Instrument Company, Silver Spring, Md. Apparatus for controlling humidity conditions in bulk materials. 2,655,734, Oct. 20.

Ohlig, Julius J., assignee: *See*—
Lenke, George H.

Oilgear Company, The, assignee: *See*—
Tyler, Ransom.

Oliveto, Eugene P.: *See*—
Hershberg, Emanuel B., and Oliveto.

Olsen, Joseph B.: *See*—
Johnston, Joseph M., Olsen, and Moulden.

Olson, Albert M., Wauwatosa, and G. W. Baker, assignors to Chain Belt Company, Milwaukee, Wis. Apparatus for turning containers. 2,656,033, Oct. 20.

Olson, Harry F., Princeton, N. J., assignor to Radio Corporation of America. Multisection acoustic filter. 2,656,004, Oct. 20.

Oplinger, Kirk A.: *See*—
Hanna, Clinton R., and Oplinger.

Osterheld, Clark M., Stoughton, Wis., assignor to McGraw Electric Company, Elgin, Ill. Corrosion preventing means. 2,656,314, Oct. 20.

Ottinger, August F.: *See*—
Brady, Charles V., and Ottinger.

Owen, Ben F., Omaha, Nebr. Front apron construction for carry-type earth scoop. 2,655,741, Oct. 20.

Pacific Laboratories, Inc., assignee: *See*—
Hube, Gottfried E.

Padbury, John J., Springdale, Conn., assignor to American Cyanamid Company, New York, N. Y. Polymerizable compositions comprising acrylonitrile and a vinyl or isopropenyl amino aromatic compound and polymerization products thereof. 2,656,339, Oct. 20.

Page, Chester H., Silver Spring, Md., assignor to the United States of America as represented by the Secretary of the Army. Memory tube control device. 2,656,485, Oct. 20.

Pan American Refining Corporation, assignee: *See*—
Lee, Robert J., and May.

Panske, Sylvester, Neenah, Wis. Square assembly holder. 2,655,729, Oct. 20.

Papa, Domenick: *See*—
Sperber, Nathan, Papa, and Schwenk.

Paper Patents Company, assignee: *See*—
Grangaard, Donald H.

Parmelee Plastics Company, assignee: *See*—
Moeller, William C.

Parovel, Giovanni, Sacramento, Calif. Bowling alley resurfacing machine. 2,655,770, Oct. 20.

Parrilla, John, Brooklyn, N. Y. Hair curler. 2,655,926, Oct. 20.

Passeri, Francesco, Buenos Aires, Argentina. Acetylene gas generator with constant pressure. 2,656,261, Oct. 20.

Pasta, Tito, Los Angeles, Calif. Sugar bowl. 2,655,799, Oct. 20.

Pataki, John: *See*—
Neumann, Francisco, Pataki, and Kaufmann.

Patterson-Kelley Co., Inc., The, assignee: *See*—
Fischer, John J., and Morgan.

Patterson, V. C., & Associates, Inc., assignee: *See*—
Ruff, Alonzo W.

Pechiney-Compagnie de Produits Chimiques et Electrometallurgiques, assignee: *See*—
Thibon, Honore J., and Mathieu.

Pennington, James W., assignor to Inland Steel Company, Chicago, Ill. Burner of the projected flame type. 2,655,986, Oct. 20.

Pennington, John T., Alexandria, Va. Reflecting projector with automatic focus mechanism. 2,655,834, Oct. 20.

Pennsylvania Salt Manufacturing Company, The, assignee: *See*—
Hayward, Cyril.

Perkins, Joseph R., Jr., Upper Montclair, N. J., and S. R. Ames, Rockland, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Pulse producing system network. 2,656,514, Oct. 20.

Perkins Machine & Gear Company, assignee: *See*—
Hoelsch, Edward H.

Perlman, David: *See*—
McCormack, Robert B., Langlykke, and Perlman.

Persin, Jean, Paris, France. Shirt collar. 2,655,661, Oct. 20.

Peters, John G.: *See*—
Smith, Herschel G., Cantrell, and Peters.

Petersen, Hans: *See*—
Matthias, Lynn H., and Petersen.

Peterson, Adolphe C., Minneapolis, Minn. Helicopter rotor actuation and control. 2,655,997, Oct. 20.

Peterson, Durey H.: *See*—
Murray, Herbert C., and Peterson.

Peterson, Rufus F., assignee: *See*—
Clair, Louis C.

Peterson, Walter E.: *See*—
Hodson, Waldo G., and Peterson.

Petitta, Mario, New York, N. Y. Hair dyeing and bleaching device. 2,655,924, Oct. 20.

Petruschell, Lucius P., Mount Dora, Fla., assignor to Dictophone Corporation, Bridgeport, Conn. Camming article clamp. 2,656,140, Oct. 20.

Pettyjohn, Elmore S., Evanston, assignor to The Institute of Gas Technology, Chicago, Ill. Distillation of oil-shale. 2,656,308, Oct. 20.

Petzinger, Ambrose J., Fair Lawn, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical measuring device. 2,656,510, Oct. 20.

Pfizer, Chas., & Co., Inc., assignee: *See*—
Goett, John J., and Ensminger.

Philco Corporation, assignee: *See*—
Shoemaker, Malcolm G.

Phillipps, Louis E., Cleveland Heights, assignor to Radio Systems, Incorporated, Cleveland, Ohio. Station selector and recording system for radio service. 2,656,522, Oct. 20.

Phillips, Bernard C., assignor to The Tillotson Manufacturing Company, Toledo, Ohio. Charge forming device. 2,656,167, Oct. 20.

Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Piston ring assembly and elements thereof. 2,656,230, Oct. 20.

Phillips Petroleum Company, assignee: *See*—
Carr, Donald E.
De Vault, Albert N.
Eberle, Jack F.
Findlay, Robert A.
Hohnadel, Charles H.
Robinson, Sam P.
Schulze, Walter A., and Crouch.
Simms, Russell K.
Thodos, George.

Philofsky, Harold M.: *See*—
Berberich, Leo J., and Philofsky.

Phils, Thomas, New York, N. Y. Lamp having a slidable screen to expose one or the other of two different light sources. 2,656,452, Oct. 20.

Pierce, Comer C., Jacksonville, Fla. Tire pressure device. 2,656,094, Oct. 20.

Piker, Herbert M., assignor to The Hamilton Metal Products Company, Hamilton, Ohio. Spring lock. 2,656,206, Oct. 20.

Pino, Manuel A., Berkeley, assignor to California Research Corporation, San Francisco, Calif. Separation of isophthalic and terephthalic diesters. 2,656,377, Oct. 20.

Piper, Douglas E.: *See*—
Henn, Richard W., and Piper.

Piper, William E., Wilmington, Del., assignor, by mesne assignments, to United States of America as represented by the Secretary of War. Manufacture of smokeless powder. 2,655,694, Oct. 20.

Plattner, Placidus: *See*—
Ruzicka, Leopold, and Plattner.

Pneumatic Scale Corporation, assignee: *See*—
Eaton, Lewis B.

Polis, Samuel N., Brooklyn, N. Y. Fishing tackle. 2,655,756, Oct. 20.

Pope, William O., Greenfield, Ind. Disassembled gate package. 2,656,040, Oct. 20.

Porter, Frederick W. B., and J. N. Haresnape, Sunbury-on-Thames, assignors to Anglo-Iranian Oil Company Limited, London, England. Catalytic desulfurization of petroleum hydrocarbons. 2,656,302, Oct. 20.

Poson, Chester A., Chicago, Ill. Variable transmission mechanism. 2,655,819, Oct. 20.

Poulter, Thomas C., La Grange, Ill., assignor, by mesne assignments, to Institute of Inventive Research, San Antonio, Tex., a trust estate. High explosive disk-shaped charge for seismic exploration. 2,656,003, Oct. 20.

Pretorius, Albertus, Pretoria, Transvaal, Union of South Africa. Needle threader. 2,656,080, Oct. 20.

Price, Duane W., Los Angeles, Calif., assignor to Rock-Ola Manufacturing Corp., Chicago, Ill. Amusement game apparatus of the shuffleboard type. 2,656,189, Oct. 20.

Proctor Electric Company, assignee: *See*—
Turner, Charles R.

Proctor, Neil H., Rives Junction, Mich. Joint for folding rules. 2,655,730, Oct. 20.

Proehl, William C., Chicago, Ill. Heating tube for deep fat fryers. 2,655,944, Oct. 20.

Protzeller, Harry W., Fairmont, Minn., assignor, by mesne assignments, to A. W. Nelson, Park Ridge, Ill. Rail and tie fastening assembly. 2,656,116, Oct. 20.

Pure Oil Company, The, assignee: *See*—
Alcorn, Irwin W.

Pursche, Harry A., Gardena, Calif. Two-way plow construction. 2,655,851, Oct. 20.

Putz, Hector R., Toronto, Ontario, Canada, assignor to McGraw Electric Company, Milwaukee, Wis. Remote-control system. 2,656,472, Oct. 20.

Quaker Oats Company, assignee: *See*—
Stevenson, Charles B.

Queen Manufacturing Co., Inc., assignee: *See*—
Doherty Donald W.

Rabbitt, Milton, Gregory, Mich., assignor to Fram Corporation. Gas filter indicator. 2,655,894, Oct. 20.

Racz, Michael, Pine Hill, N. J. Garment. 2,655,660, Oct. 20.

Radio Corporation of America, assignee: *See*—
Brown, William B.
Cherry, William H.
Olson, Harry F.
Woodward, Oakley M., Jr.

Radio Systems, Incorporated, assignee: *See*—
Philippe, Louis E.

Ramos, Hector O., assignor to C. Menendez, Buenos Aires, Argentina. Expansible strap. 2,655,664, Oct. 20.

Ramos, Jose B., assignee: *See*—
Varona, Eulalio M., Oscar B., and Olivio B.

Ramsey Corporation, assignee: *See*—
Marien, Melvin W.

Raphael, Olivius A., Los Angeles, Calif. Folding table. 2,656,232, Oct. 20.

Ravich, Leonard E., assignor to Brown-Allen Chemicals, Inc., New York, N. Y. Apparatus for photochemical dyeing. 2,655,802, Oct. 20.

Rayonier Incorporated, assignee: *See*—
Gray, Kenneth R., and Crosby.

Raytheon Manufacturing Company, assignee: *See*—
De Turk, John E., and MacNeill.

Redheffer, Raymond M., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Computing machine. 2,656,102, Oct. 20.

Reeves, Pierce E., Park Ridge, Ill., assignor to Zenith Radio Corporation. Synchronizing system. 2,656,465, Oct. 20.

Rehm, Gustav A., assignor to Springfield Boiler Company, Springfield, Ill. Steam purifier. 2,655,905, Oct. 20.

Reichel, Maximilian K.: *See*—
Neugebauer, Wilhelm, and Reichel.

Reid, William B., Jr.: *See*—
Hogg, John A., Korman, Reid, and Nathan.
Hogg, John A., Reid, and Nathan.

Rench, John A., Lima, Ohio. Burial vault. 2,655,714, Oct. 20.

Republic Aviation Corporation, assignee: *See*—
Brown, William V.
Lipman, Maurice S.

Republic Steel Corporation, assignee: *See*—
Darner, Frederick M., and Schaefer.

Reumerman, Theodorus, assignee: *See*—
Hamelink, Cornelis A. S.

Rice, Philip K., Kenmore, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Process of and apparatus for separating gas mixtures containing higher-boiling impurities. 2,655,796, Oct. 20.

Richardson, Iliff D., Houston, Tex. Laundry apparatus having heater, hollow agitator, and squeezer extractor. 2,655,803, Oct. 20.

Richmond, Henry, Great Lever, Bolton, England. Loom weighting for weaving. 2,655,948, Oct. 20.

Rick, Hilda, Manitowoc, Wis. Illuminated rotary clothes-washing basket. 2,656,451, Oct. 20.

Riddell Products Limited, assignee: *See*—
Jones, Jarman M. L.

Riddell, W. A., Corporation, assignee: *See*—
Ross, George E.

Riemenschneider, Edmund W., Hartville, assignor to The Union Metal Manufacturing Company, Canton, Ohio. Metal box rim construction. 2,656,066, Oct. 20.

Ringer, Luther: *See*—
Geldhof, Peter E., and Ringer.

Riopelle, Earl F., Detroit, Mich., assignor to Morse Chain Company, Ithaca, N. Y. Spring bushed chain. 2,655,816, Oct. 20.

Risch, Karl: *See*—
Heberlein, Georges and Georg, Weiss, Risch, and Odinga.

Ritchie, Paul F., assignor to Hercules Powder Company, Wilmington, Del. Hydroperoxides of dehydroabietic acid derivatives. 2,656,343, Oct. 20.

Ritchie, Paul F., assignor to Hercules Powder Company, Wilmington, Del. Preparation of esters of oxodehydroabietic acid. 2,656,344, Oct. 20.

Robinson, Charles V., Newton Center, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Feed locus for semiparabolic reflector. 2,656,464, Oct. 20.

Robinson, Lowell V., assignor to Crawford Door Company, Detroit, Mich. Roller construction. 2,655,684, Oct. 20.

Robinson, Sam P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Ammonium sulfate and calcium oxide manufacture. 2,656,247, Oct. 20.

Roche, André, Aix-en-Provence, France. Low-pressure spray gun. 2,656,217, Oct. 20.

Rock-Ola Manufacturing Corp., assignee: *See*—
Price, Duane W.

Rodebaugh, Everett G., assignee: *See*—
Saylor, Charles P.

Roe A. V. Canada Limited, assignee: *See*—
Comery, Peter D.

Roensch, Burns, Houston, Tex., and P. Brown, New York, N. Y., assignors, by mesne assignments, to Daystrom, Incorporated. Making building panels. 2,655,710, Oct. 20.

Roessler, Charles E., Jr., assignor to Automatic Temperature Control Co., Inc., Philadelphia, Pa. Motion transmitter. 2,656,520, Oct. 20.

Rohden, Rudolf H., Bad Lippspringe, Germany, assignor of one-half to E. Winkelmann, Ossining, N. Y. Vibratory electrical motor. 2,656,474, Oct. 20.

Rohrlick, Joan E.: *See*—
Rohrlick, M. K. and J. E.

Rohrlick, Michael K. and J. E., Montreal, Quebec, Canada. Apparatus for automatically feeding and stitching slide fastener stringers to garment fly pieces. 2,665,884, Oct. 20.

Roper, Geo. D., Corporation, assignee: *See*—
McCammant, Leonard H.

Roschke, Erwin M.: *See*—
Gray, Richard O., and Roschke.
Herrick, Roswell H., and Roschke.
Gray, Richard O., and Roschke.

Roschke, Erwin M., and R. O. Gray, Broadview, Ill., assignors to Zenith Radio Corporation. Air key subscriber television system. 2,656,405, Oct. 20.

Roschke, Erwin M., Broadview, and W. S. Drus, Chicago, Ill., assignors to Zenith Radio Corporation. Video-from-sync and sync-from-sync separator. 2,656,414, Oct. 20.

Rosenburgh, Norman J., assignor to Eastman Kodak Company, Rochester, N. Y. Document straightening means for photographic copying apparatus. 2,656,186, Oct. 20.

Ross, George E., Nevada, assignor to W. A. Riddell Corporation, Bucyrus, Ohio. Road working apparatus. 2,655,743, Oct. 20.

Ross, Olive D., executrix: *See*—
Hansen, William W., and Johnson.

Rotax Limited, assignee: *See*—
Baines, John A.

Rotol Limited, assignee: *See*—
Basevi, Sidney P.

Roubal, Alexander J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Material feed device for gyratory crushers. 2,656,120, Oct. 20.

Rubin, Irving, Buffalo, N. Y. Connection between band parts and loops. 2,655,707, Oct. 20.

Ruff, Alonzo W., assignor to V. C. Patterson & Associates, Inc., York, Pa. Oil removal system for refrigeration apparatus. 2,655,794, Oct. 20.

Ruger, William B., Wilton, assignor to Sturm, Ruger and Company, Inc., Southport, Conn. Blowback autoloading pistol. 2,655,839, Oct. 20.

Russell, Carl D., Muscogee, Okla. Garbage disposal unit. 2,655,966, Oct. 20.

Russell, Fred J., Beverly Hills, R. W. Dietrich, Bell, and G. B. Solovieff, South Gate, assignors, by mesne assignments, to Loyola University Foundation, Los Angeles, Calif. Latch with dead locking mechanism. 2,656,207, Oct. 20.

Russell, James B., Spokane, Wash. Aluminum alloy containing mischmetal. 2,656,270, Oct. 20.

Ruzicka, Leopold, and P. Plattner, Zurich, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. 14,15-oxides of the cyclopentanopolyhydrophenanthrene and polyhydrochrysene series. 2,656,349, Oct. 20.

Rydin, Carl N., Warrenville, Ill. Mine coupler. 2,656,046, Oct. 20.

Saecrefabrik Schweizerhall, assignee: *See*—
Frey, Walter.

Salas, Joseph F., Detroit, Mich. Magazine unloading device for bolt action firearms. 2,655,753, Oct. 20.

Salientes, Manuel, assignee: *See*—
Varona, Eulalio M., Oscar B., and Olivio B.

Salierno, Vincent, Belleville, N. J. Spectacle frame. 2,655,835, Oct. 20.

Saliger, Hilde, assignee: *See*—
Burkert, Frans.

Samler, Lee F., Baltimore, assignor to The National Plastic Products Company, Odenton, Md. Press loading and unloading apparatus. 2,656,047, Oct. 20.

Samler, Lee F., Baltimore, assignor to The National Plastic Products Company, Odenton, Md. Apparatus for loading and unloading laminating presses. 2,656,048, Oct. 20.

Sanders, Leslie T., Palatka, Fla. Marine growth harvester. 2,655,779, Oct. 20.

Sandoz Limited, assignee: *See*—
Knecht, Oscar, and Ischer.

Sapolin Paints, Inc., assignee: *See*—
Engel, John P.

Satinoff, David, Utica, N. Y., assignor to the United States of America as represented by the Secretary of the United States Air Force. Safety interlock switch. 2,656,425, Oct. 20.

Saulsbury, Albert O., Ridgely, Md. Harvester with automatic level maintaining apparatus. 2,656,194, Oct. 20.

Savino, Henry C., Jersey City, N. J. System for indicating time-space lag and lead. 2,656,528, Oct. 20.

Saylor, Charles P., Hyattsville, Md., assignor of one-half to Everett G. Rodebaugh, Pughtown, Pa. Hand tool. 2,656,225, Oct. 20.

Schaefer, Walter S.: *See*—
Darner, Frederic M., and Schaefer.

Schaffel, Gerson S., and G. H. Swart, assignors to The General Tire and Rubber Company, Akron, Ohio. Plasticized vinyl halide composition and making same. 2,656,333, Oct. 20.

Schaper, Peter, Chicago, Ill. Oar guard. 2,655,669, Oct. 20.

Schering Corporation, assignee: *See*—
Hershberg, Emanuel B., and Oliveto.
Sperber, Nathan, Papa, and Schwenk.

Schlesman, Carleton H., Washington, D. C., assignor to Socony-Vacuum Oil Company, Incorporated. Attenuator for recording systems. 2,656,468, Oct. 20.

Schmidlin, Julius: *See*—
Miescher, Karl, Wettstein, and Schmidlin.

Schmidt, Erich, Bad Reichenhall, and R. Schnegg, Dormagen, assignors to Farbenfabriken Bayer, Leverkusen, Germany. Preparation of carbodiimides. 2,656,383, Oct. 20.

Schmidt, Louis, North Plainfield, N. J. Replacement casing for toilet seats. 2,655,666, Oct. 20.

Schmied, Joseph M., assignor to White Gap Company, Chicago, Ill. Article feeding mechanism. 2,656,085, Oct. 20.

Schnegg, Robert: *See*—
Schmidt, Erich, and Schnegg.

Schricker, Otto, Jr.: *See*—
MacPherson, Robert E., Jr., and Schricker.

Schroeder, Stanley D.: *See*—
Gensky, Henry E., and Schroeder.

Schul, Gonzales: *See*—
Van Russum, Pierre, and Schul.

Schulken, Roger M.: *See*—
Tamblyn, John W., and Schulken.

Schultz, Everett M., Glenolden, Pa., assignor to Merck & Co., Inc. Preparing 3,3-disubstituted-6-dimethylamino-2-hexanones. 2,656,388, Oct. 20.

Schulze, Walter A., and W. W. Crouch, Bartlesville, Okla., assignor to Phillips Petroleum Company. Manufacture of dialkyl sulfides. 2,656,392, Oct. 20.

Schwarz, Joseph A., Chicago, Ill., assignor to Birtman Electric Company. Mixer bowl. 2,656,163, Oct. 20.

Schwarz, Marcel G., assignor to Societe Rateau (Societe Anonyme), Paris, France. Centrifugal pump and compressor. 2,656,096, Oct. 20.

Schweighofer, Horst M., and G. E. Nicholson, assignors to Collins Radio Company, Cedar Rapids, Iowa. Shaft positioning system. 2,656,497, Oct. 20.

Schwenk, Erwin: *See*—
Sperber, Nathan, Papa, and Schwenk.

Scovill Manufacturing Company, assignee: *See*—
Simpson, Richard W.

Seaboard Machinery Corporation, assignee: *See*—
Jernstrom, Karl W.

Seale, Homer T., Los Angeles, Calif. Auxiliary control valve for busses. 2,656,016, Oct. 20.

Sears, Roebuck and Co., assignee: *See*—
MacDonald, Paul.

Sealey, William C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Grommeted lead panel for oil-filled electrical apparatus. 2,656,403, Oct. 20.

Searle, G. D., & Co., assignee: *See*—
Jacobsen, Robert P.

Se Bastian, Ford, Chicago, Ill., assignor to Electro-Snap Switch & Mfg. Co. Disk-shaped phonograph vending apparatus. 2,656,235, Oct. 20.

Sédillé, Marcel H. L., assignor to Societe Rateau (Société Anonyme), and R. Anxionnaz, Paris, France, jointly. Turbine gas engine adapted to operate with or without atmospheric air chiefly for the propulsion of warships. 2,655,788, Oct. 20.

Segil, L. J., Co. (Inc.), assignee: *See*—
Segil, Leon J.

Segil, Leon J., Winnetka, assignor to L. J. Segil Co. (Inc.), Chicago, Ill. Fixture for annular fluorescent lamps. 2,656,453, Oct. 20.

Selas Corporation of America, assignee: *See*—
Mann, Carl P.

Sell, Wilson D., assignor of one-half to P. Warfel, Clyde Park, Mont. Portable irrigation dam. 2,655,791, Oct. 20.

Selling, Hendrik J., Delft, assignor to De Nederlandsche Organisatie Voor Toegepast-Natuur-Wetenschappelijk Onderzoek Ten Behoeve Van Nijverheid, Handel en Verkeer, The Hague, Netherlands. Color reproduction. 2,656,099, Oct. 20.

Setterlund, Louis O., assignee: *See*—
MacKenzie, Alexander, Jr.

Shafer, Wayne A., Jr., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,655,673, Oct. 20.

Shapiro, Augustus E., and M. Metsky, Newark, N. J. Sight reading device. 2,655,738, Oct. 20.

Sharrock, William, Beverly, Mass. Ladder construction. 2,656,087, Oct. 20.

Sheahan, Robert E., Chagrin Falls, Ohio, assignor to General Electric Company. Motor mount and seal for suction cleaners. 2,656,097, Oct. 20.

Shell Development Company, assignee: *See*—
Holzman, George, and Good.

Shelton, Harry J., Jr., Ladue, Mo., and L. D. Smiley, Pensacola, Fla., assignors to Gruendler Crusher & Pulverizer Co., St. Louis, Mo. Refining blender. 2,656,119, Oct. 20.

Sheppard, Thomas W., Sandy Spring, Md., assignor to the United States of America as represented by the Secretary of the Navy. Angular accelerometer. 2,656,519, Oct. 20.

Sherwin, Chalmers W., Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Reflection plotting device. 2,655,836, Oct. 20.

Shoemaker, Malcolm G., Doylestown, assignor to Philco Corporation, Philadelphia, Pa. Air conditioning system. 2,655,793, Oct. 20.

Sibble, Carl G., Tionesta, Pa. Lost motion measuring tool. 2,655,731, Oct. 20.

Siemens & Halske, Aktiengesellschaft, assignee: *See*—
Heil, Rudolf.

Sillars, George S., Beverly, assignor to Hoague-Sprague Corporation, Lynn, Mass. Box blank forming machine. 2,655,844, Oct. 20.

Simmons, Verne P., New York, N. Y. Toothbrush cover. 2,655,968, Oct. 20.

Simms, Russell K., Bartlesville, Okla., assignor to Phillips Petroleum Company. Ammonium sulfate production. 2,656,248, Oct. 20.

Simpson, Richard W., assignor to Scovill Manufacturing Company, Waterbury, Conn. Separable end connection for slide fasteners. 2,655,704, Oct. 20.

Singer Manufacturing Company, The, assignee: *See*—
Knaus, Nicholaus, and Millington.

Skardal, Karl A., Stockholm, and O. B. Börjeson, Bromma, near Stockholm, Sweden. Apparatus for defibrating waste paper. 2,655,840, Oct. 20.

Slack, Frederick F., Medford, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Stable delay circuit. 2,656,462, Oct. 20.

Slatkin, Alfred D., Birmingham, assignor to Moth-King Corporation, Detroit, Mich. Thermostatic switch. 2,656,441, Oct. 20.

Smejda, Richard, Vienna, Austria. Process and apparatus for use in preparing color sets for shadded tones printing 2,655,752, Oct. 20.

Smiley, Lloyd D.: *See*—
Shelton, Harry J., Jr., and Smiley.

Smisko, Paul: *See*—
Diehl, John E., and Smisko.

Smith, Archie E., Stratford, Conn., assignor to General Electric Company. Actuating mechanism for automatic electric toasters and the like. 2,655,860, Oct. 20.

Smith, Charles S.: *See*—
Frerer, Paul G., and Smith.

Smith, Cleveland S., Indiana, assignor to Syntron Company, Homer City, Pa. Spring washer. 2,656,495, Oct. 20.

Smith, David M., Durham, assignor to Smith Implement Company, Durham County, N. C. Seed planter. 2,656,071, Oct. 20.

Smith, Gerald R., Wabash, Ind., assignor to American Rock Wool Corp., Chicago, Ill. Means for closing bags. 2,656,093, Oct. 20.

Smith, Herschel G., Wallingford, T. L. Cantrell, Lansdowne, Pa., and J. G. Peters, Audubon, N. J., assignors to Gulf Oil Corporation, Pittsburgh, Pa. Stabilized hydrocarbon fuel oils. 2,656,259, Oct. 20.

Smith, Herschel G., Wallingford, T. L. Cantrell, Lansdowne, Pa., assignors to Gulf Oil Corporation, Pittsburgh, Pa. Stabilized hydrocarbon fuel oils. 2,656,260, Oct. 20.

Smith, Hubert L., and A. A. Gustafson, assignors to Freeport Sulphur Company, Port Sulphur, La. Crusher with combination feed and crushing screw. 2,656,123, Oct. 20.

Smith Implement Company, assignee: *See*—
Smith, David M.

Smith, Kline & French Laboratories, assignee: *See*—
Kerwin, James F., and Ullyot.

Smoker, Isaac Z., Intercourse, Pa. Pickup bale loader. 2,656,030, Oct. 20.

Snelson, Howard J., Paris, Ill., assignor to Electrographic Corporation, New York, N. Y. Apparatus for handling and separating casting drum and casting. 2,655,700, Oct. 20.

Soar, Harry G., Streatham Vale, London, assignor to Beck & Co. (Meters) Limited, London, England. Dispensing hose nozzle with metering device. 2,656,068, Oct. 20.

Soble, Leo F., Jonesville, Mich. Automatic throttle control. 2,656,024, Oct. 20.

Société à Responsabilité Limitée, assignee: *See*—
Armelin, Maurice F.

Societe d'Etudes de Machines Speciales, assignee: *See*—
Armelin, Maurice F.

Societe Rateau (Societe Anonyme), assignee: *See*—
Schwarz, Marcel G.
Sédille, Marcel H. L.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Bergstrom, Eric V., and Sorf.
Loper, George B.
Schlesman, Carleton H.

Soilinger, Ferdinand P., Paterson, N. J., assignor to Curtiss-Wright Corporation. Turbine blade construction. 2,656,146, Oct. 20.

Solovieff, George B.: *See*—
Russell, Fred J., Dietrich, and Solovieff.

Solter, Robert L.: *See*—
Burns, Robert S., and Solter.

Sonneville, Roger, Paris, France. Railway sleeper of reinforced concrete with rail fastening bolts. 2,656,115, Oct. 20.

Sooy, Brainard E.: *See*—
Fisher, Harry C., and Sooy.

Soreng Products, Inc., assignee: *See*—
Frerer, Paul G., and Smith.

Sorf, Edward R.: *See*—
Bergstrom, Eric V., and Sorf.

Spalding, John D., Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Pipe slip gripping insert. 2,655,706, Oct. 20.

Sparks, Morgan, Basking Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Semiconductor translating device. 2,656,496, Oct. 20.

Sparks, William J., Westfield, and D. W. Young, Roselle, N. J., assignors to Standard Oil Development Company. Aromatic-alkene copolymers of less than 5% aromatic content. 2,656,340, Oct. 20.

Spaugh Paper Company, Incorporated, assignee: *See*—
Doll, Martin and B. L.

Specht, Theodore R., Greenville, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Power measuring device. 2,656,511, Oct. 20.

Speed Queen Corporation, assignee: *See*—
Thiele, Berthold R.

Spencer, Lloyd, South Pasadena, assignor of thirty-three and one-third per cent to T. C. Bannon, Altadena, and thirty-three and one-third per cent to J. D. Chesnut, Newport Beach, Calif. Control device for gun perforators. 2,655,993, Oct. 20.

Sperber, Nathan, Bloomfield, N. J., D. Papa, Brooklyn, N. Y., and E. Schwenk, Shrewsbury, Mass., assignors to Schering Corporation, Bloomfield, N. J. Antihistaminic substances. 2,656,358, Oct. 20.

Spero, Lila S., Arverne, and G. Adamec, New York, N. Y.; said Adamec assignor to said Spero. Vending machine. 2,656,029, Oct. 20.

Sperry Corporation, The, assignee: *See*—
Hansen, William W., and Johnson.

Sprague, James M., Drexel Hill, Pa., assignor to Merck & Co., Inc. Secondary alkylsulfonamido benzoic acids. 2,656,381, Oct. 20.

Springfield Boiler Company, assignee: *See*—
Rehm, Gustav A.

Sprung, Murray M., Schenectady, N. Y., assignor to General Electric Company. Suspensions of polymeric chlorotrifluoroethylene. 2,656,330, Oct. 20.

Sprung, Murray M., Schenectady, N. Y., assignor to General Electric Company. Suspensions of polymeric chlorotrifluoroethylene. 2,656,331, Oct. 20.

Sprung, Murray M., Schenectady, N. Y., assignor to General Electric Company. Suspensions of polymeric chlorotrifluoroethylene. 2,656,332, Oct. 20.

Square D Company, assignee: *See*—
Allen, Wallace T.

Stabler, Howard P., Williamstown, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Shaft position indicator having reversible counting means. 2,656,106, Oct. 20.

Stackpole Carbon Company, assignee: *See*—
Diehl, John E., and Smisko.

Stallbohm, H. R., assignee: *See*—
Wenner, Edward F.

Standard Oil Development Company, assignee: *See*—
Bartlett, Jeffrey H.
Crookston, Robert R.
Hunter, Edward A., and Kimberlin.
Kimberlin, Charles N., Jr., and Arey.
MacPherson, Robert E., Jr., and Schricker.
Matheson, George L.
Sparks, William J., and Young.

Standard Oil Company, assignee: *See*—
Symonds, Fred L.

Standard Railway Equipment Manufacturing Company, assignee: *See*—
Swann, James S.

Standard Safety Equipment Co., assignee: *See*—
Hoagland, Earl J.

Standard-Thomson Corporation, assignee: *See*—
Woods, John E.

Stead Rail Anchor Company Limited, The, assignee: *See*—
Marvin, Charles H.

Stecca, Anthony J.: *See*—
Gridley, Darrin H., and Stecca.

Steele, William E., Seattle, Wash. Scalpel. 2,655,723, Oct. 20.

Steiert, Alois F.: *See*—
Dinlocker, Charles A., and Steiert.

Stern, Maurice, Paris, France, assignor to Mecres, S. A., Panama, Panama. Apparatus for the automatic serving of meals. 2,656,032, Oct. 20.

Stevens, Clarence C., Forestville, Conn., assignor, by mesne assignments, to Western Electric Company, Incorporated. Coil winding machine. 2,656,124, Oct. 20.

Stevens, Donald R., Wilkinsburg, and S. C. Camp, Richland Township, Allegheny County, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Stabilization of phenol alkylates. 2,656,311, Oct. 20.

Stevens, Donald R., Wilkinsburg, and S. C. Camp, Richland Township, Allegheny County, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Stabilization of phenol alkylates. 2,656,312, Oct. 20.

Stewart, Floyd D.: *See*—
Mathes, Roger A., and Stewart.

Stewart-Warner Corporation, assignee: *See*—
Lockhart, Robert W.

Stevenson, Charles B., Wilmington, Calif., assignor, by mesne assignments, to Quaker Oats Company, Chicago, Ill. Treating a marine product. 2,656,275, Oct. 20.

Stickelber, Merlin A.: *See*—
Mohr, John E., and Stickelber.

Stich, Raymond N., Minneapolis, Minn. Rock-grooving tool. 2,656,169, Oct. 20.

Stickelber, Merlin A., Kansas City, Mo., assignor to Stickelber & Sons, Inc. Loaf molding machine. 2,655,876, Oct. 20.

Stickelber & Sons, Inc., assignee: *See*—
Mohr, John E., and Stickelber.
Stickelber, Merlin A.

Stiler, Ted, Brooklyn, N. Y. Lock for thermostats. 2,655,806, Oct. 20.

Stillwagon, Crawford K., Houston, Tex. Piston and piston and rod combination. 2,656,229, Oct. 20.

Stoll, Max, assignor to Firmenich & Co., successeurs de la Societe Anonyme M. Naef & Cie., Geneva, Switzerland. Preparation of cyclopolymethylenic ketones. 2,656,390, Oct. 20.

Stoll, Max, assignor to Firmenich & Co., successeurs de la Societe Anonyme M. Naef & Cie., Geneva, Switzerland. Preparation of α-β unsaturated cyclopolymethylenic ketones. 2,656,391, Oct. 20.

Straley, James M., and R. C. Harris, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Thienyl vat dye compounds and vat dye intermediates and their preparation. 2,656,361, Oct. 20.

Strauss, Jerome: *See*—
Dunn, Holbert E., and Strauss.

Strayer, Chalmers A., Wilmington, and J. R. Clifton, Rolling Hills, assignors to Northrop Aircraft, Inc., Hawthorne, Calif. Hydraulic gain control. 2,655,904, Oct. 20.

Stromberg-Carlson Company, assignee: *See*—
Kessler, Frank.

Strong Electric Corporation, The, assignee: *See*—
Hatch, Arthur J.

Sturm, Ruger and Company, Inc., assignee: *See*—
Ruger, William B.

Summersgill, Joseph F., Maughold, Isle of Man. Hinge. 2,655,686, Oct. 20.

Summit Trust Company, The, executor: *See*—
Matheson, George L.

Sun Oil Company, assignee: *See*—
Liddell, George J.

Svenson, Ernest J., Rockford, assignor to Odin Corporation, Chicago, Ill. Welding machine and control and actuating mechanism. 2,656,445, Oct. 20.

Svenson, Raymond C.: *See*—
Gray, Samuel M., and Svenson.

Swann, James S., Homewood, assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Lading band anchor. 2,655,874, Oct. 20.

Swanson, Arthur, Elsinore, Calif. Mop wringer apparatus. 2,655,681, Oct. 20.

Swart, Gilbert H.: *See*—
Schaffel, Gerson S., and Swart.

Swasey, Samuel E.: *See*—
Gartner, Stanley J., Swasey, and Dwinell.

Swearingen, Paul R., Kensington, Ohio. Apron with automatically adjustable belt. 2,655,659, Oct. 20.

Swerdlow, Nathan, and H. L. Chamberlain, Philadelphia, assignors to General Electric Company. Adjustable joint structure. 2,656,201, Oct. 20.

Sylvania Electric Products Inc., assignee: *See*—
Barre, Wade E., Jr.
Gartner, Stanley J., Swasey, and Dwinell.
Gray, Samuel M., and Svenson.
Mann, Oliver, and Thomas.

Symonds, Fred L., Louisiana, Mo., assignor to Standard Oil Company, Chicago, Ill. Reaction furnace for contacting a gas and fluidized solids. 2,656,258, Oct. 20.

Syntex S. A., assignee: *See*—
Nedmann, Francisco, Pataki, and Kaufmann.

Syntron Company, assignee: *See*—
Smith, Cleveland S.

Talon, Inc., assignee: *See*—
Carlile, Alfred E.

Tamblyn, John W., and R. M. Schulken, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Surface treatment for improving weathering resistance of cellulose acetate-butyrate plastics. 2,656,288, Oct. 20.

Tanner, Fritz, Sankt Gallen, assignor to Gebrüder Bühler, Uswil, Switzerland. Automatic material feed control for cereal comminuting apparatus. 2,656,121, Oct. 20.

Tauscher, Vernon A., and W. D. Mullins, Jr., Los Angeles, K. R. Jackson, Alhambra, and W. D. Lyon, Los Angeles, Calif., assignors to North American Aviation, Inc. Solenoid hydraulic control valve. 2,655,939, Oct. 20.

Taylor, Frend A., Jefferson, Ohio. Angularly adjustable saw guide with board clamp thereon. 2,655,956, Oct. 20.

Te Grotenhuis, Theodore A., Olmsted Falls, Ohio. Making rubbery compounds suitable for production of tire treads. 2,656,324, Oct. 20.

Teledetector, Inc., assignee: *See*—
McKee, Chester W., and R. W.

Television Associates, Inc., assignee: *See*—
Eddy, William C.

Templeton, Herbert W., Detroit, Mich., assignor to Fairmont Railway Motors, Inc., Fairmont, Minn. Vehicle structure. 2,655,872, Oct. 20.

Terlecki, Renat, assignor to British Telecommunications Research Limited, Taplow, England. Tuning indicator for frequency shift telegraph systems. 2,656,415, Oct. 20.

Terrill, Thomas S., Redding, Calif. Lumber counting and computing device. 2,656,105, Oct. 20.

Terry, Warren, Kansas City, Mo. Collapsible basket. 2,655,970, Oct. 20.

Texas Company, The, assignee: *See*—
Eckert, George W.
Herzog, Gerhard.

Textiliana, Inc., assignee: *See*—
Ernst, Robert, and Loeff.

Thibault, Joseph O., assignor to Casco Products Corporation, Bridgeport, Conn. Electric steam iron. 2,655,745, Oct. 20.

Thibon, Honoré J., and H. J. P. Mathieu, Gardanne, France, assignors to Pechiney-Compagnie de Produits Chimiques et Electrometallurgiques. Alumina-base fillers for rubber compositions. 2,656,250, Oct. 20.

Thiele, Berthold R., assignor to Speed Queen Corporation, Ripon, Wis. Carpet sweeper casing. 2,655,677, Oct. 20.

Thodos, George, Bartlesville, Okla., assignor to Phillips Petroleum Company. Removal of nitrogen from natural gas. 2,656,010, Oct. 20.

Thomas, Julian B., Fort Worth, Tex. Pallet gripping device. 2,656,062, Oct. 20.

Thomas, Ralph B.: *See*—
Mann, Oliver, and Thomas.

Thompson, Almen H., Fargo, N. Dak. Flour dusting machine. 2,655,897, Oct. 20.

Thomson, Charles, and S. H. Gordon, assignors to Cable Belt Limited, Inverness, Scotland. Conveyer belt. 2,656,035, Oct. 20.

Thorpe, Jack H., Los Angeles, Calif. Sealed bearing cleaning and lubricating head. 2,656,012, Oct. 20.

Tide Water Associated Oil Company, assignee: *See*—
Vaughn, Samuel C.
Viland, Clare K.

Tiedt, Friedrich, Otterndorf, and R. Dewald, Wiesbaden, Germany. Production, concentration and stabilization of fat-soluble valuable substances from carrots and the resulting product. 2,656,274, Oct. 20.

Tietjen, Robert H., Davis, Calif., assignor to the United States of America as represented by the Secretary of the United States Air Force. Fluid pressure operated switch. 2,656,429, Oct. 20.

Tillman, John E., Albuquerque, N. Mex., assignor to the United States of America as represented by the United States Atomic Energy Commission. Signal deviation warning system. 2,656,527, Oct. 20.

Tillotson Manufacturing Company, The, assignee: *See*—
Foster, Edward H.
Phillips, Bernard C.

Timmins, Meinrod J., Omaha, Nebr. Splint. 2,655,916, Oct. 20.

Tinlot, John H., Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Wide frequency coverage beacon receiver. 2,656,459, Oct. 20.

Tinnerman Products, Inc., assignee: *See*—
Flora, Laurence H.

Toledo Scale Company, assignee: *See*—
Mallory, Donald D.
Weckerly, Mark A.

Torosian, Peter G.: *See*—
Chalik, John, and Torosian.

Toulmin, Harry A., Jr., assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Dried or evaporated food product, especially milk, and making it. 2,656,276, Oct. 20.

Toulmin, Harry A., Jr., assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Plating rolled sheet metal. 2,656,284, Oct. 20.

Towle, George J., Walnut Creek, Calif. Tool-mounting arbor. 2,656,190, Oct. 20.

Towler, Frank H.: *See*—
Towler, John M., and F. H.

Towler, John M., Rodley, and F. H., Dob Park, near Otley, assignors to Electraulic Presses Limited, Rodley, England. Unloading and relief valve. 2,655,930, Oct. 20.

Traube, Abraham, Brooklyn, N. Y. Drying machine. 2,655,735, Oct. 20.

Trevaskis, Henry W., Solihull, assignor to Dunlop Rubber Company Limited, London County, England. Automatic braking apparatus for aircraft. 2,656,017, Oct. 20.

Tripp, James E., Chicago, Ill. Flame and radiation resistant container. 2,655,882, Oct. 20.

Troyer, Marc D., assignor to Berger Engineering Company, Seattle, Wash. Logging crane. 2,656,059, Oct. 20.

Tucker, Samuel J., Memphis, Tenn. Apparatus for feeding lengths of drill pipe in succession to the drill pipe elevator of drill rigs. 2,656,052, Oct. 20.

Turner, Charles R., Springfield Township, Montgomery County, assignor to Proctor Electric Company, Philadelphia, Pa. Cooker control apparatus. 2,656,450, Oct. 20.

Turner, Cyril R., Lafayette, assignor, by mesne assignments, to California Research Corporation, San Francisco, Calif. Production of fuel oils and naphthenic acid soaps. 2,656,380, Oct. 20.

Tyler, Ransom, Greenfield, assignor to The Oilgear Company, Milwaukee, Wis. Positioning control for hydraulic motors. 2,655,903, Oct. 20.

Udale, Stanley M., assignor to Holley Carburetor Company, Detroit, Mich. Two-cycle combustion chamber. 2,655,906, Oct. 20.

Ullyot, Glenn E.: *See*—
Kerwin, James F., and Ullyot.

Ulvad, Bernhard, North Leominster, Mass., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Comb. 2,655,925, Oct. 20.

Union Carbide and Carbon Corporation, assignee: *See*—
Aitchison, Robert B., Hicks, and Craig.
Rice, Philip K.

Union Metal Manufacturing Company, The, assignee: *See*—
Riemenschneider, Edmund W.

Union Oil Company of California, assignee: *See*—
Coe, Clarence S., and Doumani.
Neff, Loren L.

Union Steam Pump Company, assignee: *See*—
Yohpe, Reinhard A.

United Aircraft Corporation, assignee: *See*—
Brown, Edmund D.

United National Bank of Cliffside Park, The, administrator: *See*—
Kennedy, Walter.

United Shoe Machinery Corporation, assignee: *See*—
Barker, William A.
Courchene, Theodore P.
Fossa, Joseph.
Shafer, Wayne A., Jr.

United States Air Force, United States of America as represented by the Secretary of the, assignee: *See*—
Satinoff, David.
Tietjen, Robert H.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Firminhac, Ralph H.
Tillman, John E.

United States Rubber Company, assignee: *See*—
Hodgkins, Hollis C.
Kulka, Marshall, and Warren.

Universal Oil Products Company, assignee: *See*—
Bielawski, Mitchell S., and Mavity.
Bloch, Herman S.

Universal Vice & Tool Company, assignee: *See*—
Klavon, Theodore M.

Upjohn Company, The, assignee: *See*—
Haynes, Thomas A.
Hogg, John A., Korman, Reid, and Nathan.
Hogg, John A., Reid, and Nathan.
Murray, Herbert C., and Peterson.
Weisblat, David I., and Magerlein.

Uschkamp, Walter, Frankfurt-am-Main-Hochst, Germany. Luminous clock with neon-illumination of dial and hands. 2,655,783, Oct. 20.

V-M Corporation, assignee: *See*—
Morrison, James L. D.

Van Russum, Pierre, Mariaburg, and G. Schul, Kapellen, Belgium. Percussion mechanism. 2,655,911, Oct. 20.

Van Ryan, Anthony, South Milwaukee, assignor to McGraw Electric Co., Milwaukee, Wis. Series capacitor protective device and system. 2,656,490, Oct. 20.

Van Sickle, Roswell C., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker mechanism. 2,656,430, Oct. 20.

Van Tassel, Harry C., Edgewood, Pa., assignor to Westinghouse Air Brake Company. Emergency control for centralized traffic control systems. 2,656,455, Oct. 20.

Van Wirt, Alfred E., and G. F. Jones, Glens Falls, N. Y., assignors to Imperial Paper and Color Corporation. Pigment paste. 2,656,327, Oct. 20.

Vanadium Corporation of America, assignee: *See*—
Dunn, Holbert E., and Strauss.

Vandenberg, Frank, East Aurora, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system for cutting apparatus. 2,655,994, Oct. 20.

Vander Linde, Adrian L.: *See*—
Krueger, Edward C., and Vander Linde.

Vanderbilt, R. T., Company, Inc., assignee: *See*—
Brooks, Lester A.

Vapor Heating Corporation, assignee: *See*—
Lehane, Timothy J., and Johnson.

Varona, Eulalio M., Oscar B., and Olivio B., Manila, Republic of Philippines, assignors of one-half to M. Salientes, J. B. Ramos, and C. Montano, Washington, D. C. Locking pen and pencil compass and divider. 2,655,727, Oct. 20.

Varona, Olivio B.: *See*—
Varona, Eulalio M., Oscar B., and Olivio B.

Varona, Oscar B.: *See*—
Varona, Eulalio M., Oscar B., and Olivio B.

Vaughn, Samuel C., Berkeley, assignor to Tide Water Associated Oil Company, San Francisco, Calif. Amino bicyclohexyl-alkyl acid phosphate reaction product. 2,656,375, Oct. 20.

Vereinigte Glanzstoff-Fabriken A. G., assignee: *See*—
Börner, Christian.

Venn, John E., Milwaukee, Wis. Art of shotgun shell loading. 2,655,831, Oct. 20.

Viland, Clare K., Martinez, assignor to Tide Water Associated Oil Company, San Francisco, Calif. Cracking with mixed catalysts. 2,656,305, Oct. 20.

Vingee, Raymond A., Stamford, Conn., and L. J. Christmann, Bronxville, assignors to American Cyanamid Company, New York, N. Y. Preparation of alkali metal acid cyanamide. 2,656,246, Oct. 20.

Vivadent Corporation, assignee: *See*—
Knappwost, Adolf.

Vivolo, Michael D., New York, N. Y. Salt dispenser. 2,656,074, Oct. 20.

Vlachos, Constantinos H., Vancouver, Wash., and E. M. Ward, Portland, Oreg.; said Ward assignor to said Vlachos. Hydraulic pump and motor transmission and gas pressure prime mover theretor. 2,655,785, Oct. 20.

Vogler, Bruno, Berlin-Charlottenburg, assignor to Loewe & Co. A. G., Berlin, Germany. Counting device. 2,656,107, Oct. 20.

Vollmer, Wendlin: *See*—
Arnold, Erich, Heilmann, and Vollmer.

Von Essen, John F., Floral Park, N. Y. Condiment shaker with novel closing cap. 2,656,076, Oct. 20.

Vore, Milton P., Catonsville, and M. J. Gelpi, Baltimore, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Apparatus for measuring the vector difference of two alternating current voltages. 2,656,509, Oct. 20.

Wagner Electric Corporation, assignee: *See*—
Fites, Cyril B.

Wallace, Herbert A., San Francisco, Calif., assignor to Westinghouse Air Brake Company. Railway traffic controlling apparatus. 2,656,436, Oct. 20.

Wallace, James M., and A. W. Edwards, East McKeesport, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Integrator for line-sectionalizers. 2,656,491, Oct. 20.

Wallace & Tiernan Company, Inc., assignee: *See*—
MacKay, John R.

Walsh, Edward J., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Laminated ring lead-in for electron discharge devices. 2,656,404, Oct. 20.

Walters, Emmett L., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Method and apparatus for forming sheet glass. 2,655,765, Oct. 20.

War, United States of America as represented by the Secretary of, assignee: *See*—
Bachmann, Werner E.
Piper, William E.

Ward, Earl M.: *See*—
Vlachos, Constantinos H., and Ward.

Ward, William C., Norwich, and G. Gever, Oxford, assignors to Eaton Laboratories, Inc., Norwich, N. Y. Series of nitrofuran compounds comprising substituted 5-nitro-2-furaldehyde semicarbazones. 2,656,350, Oct. 20.

Warfel, Paul, assignee: *See*—
Sell, Wilson D.

Warne, Frederick C., assignor to Farm Tools, Inc., Mansfield, Ohio. Tractor-mounted implement. 2,655,854, Oct. 20.

Warner, Arthur W., Jr., Fanwood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Crystal unit for use at high temperatures. 2,656,473, Oct. 20.

Warren, John C. R.: *See*—
Kulka, Marshall, and Warren.

Warren, Pat, Fort Worth, Tex. Trotline or the like. 2,655,758, Oct. 20.

Wasemann, William A., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Washing apparatus. 2,656,236, Oct. 20.

Washbond, Harry H., assignor to The Baker Manufacturing Company, Springfield, Ill. Cable mounting for scrapers or graders. 2,655,742, Oct. 20.

Wasielewski, Eugene W., South Euclid, Ohio. Heat transfer element supported against external or internal pressures. 2,656,157, Oct. 20.

Wasserman, Rene D., Stamford, Conn. Moldable compounds for making jigs. 2,656,281, Oct. 20.

Watkins, Percy G., Oak View, Calif. Device for heating orchards. 2,655,764, Oct. 20.

Weatherby, Robert, assignee: *See*—
Alloway, David L.

Weckerly, Mark A., assignor to Toledo Scale Company, Toledo, Ohio. Proportioning scale. 2,656,142, Oct. 20.

Weisblat, David I., and B. J. Magerlein, assignors to The Upjohn Company, Kalamazoo, Mich. 6-phenoxymethylpteridines. 2,656,356, Oct. 20.

Weiss, Ernest: *See*—
Heberlein, Georges and Georg, Weiss, Risch, and Odinga.

Wellman, S. K., Company, The, assignee: *See*—
De Marinis, Frank.

Weltronic Company, assignee: *See*—
Elliott, Lauren F.

Wendler, Norman L.: *See*—
Graber, Robert P., and Wendler.

Wenner, Edward F., Columbus, assignor to H. R. Stallbohm, Lima, Ohio. Ampoule cutter. 2,655,767, Oct. 20.

Western Electric Company, Incorporated, assignee: *See*—
Bunch, Tillman T.
Elarde, Paul F.
Henning, George E.
Linsley, John W., Jr.
Stevens, Clarence C.

Westinghouse Air Brake Company, assignee: *See*—
Bent, Arthur J., and Williams.
Bone, Herbert L.
Cotter, George L.
Hines, Claude M.
May, Harry C.
McCune, Joseph C.
Van Tassel, Harry C.
Wallace, Herbert A.

Westinghouse Electric Corporation, assignee: *See*—
Berberich, Leo J., and Philofsky.
Dorfman, Hiller D.
Edwards, Andrew W.
Fahnoe, Harold H.
Freese, Gerald J.
Gano, Harlan S, and Freese.
Geizheiser, Francis L., and Drobney.
Good, William E.
Grant, F. Eugene, and Katz.
Hanna, Clinton R., and Oplinger.
Hodnette, John K., and Leonard.
Jackson, Hagan L.
Johnson, John L.
Lenehan, Bernard E.
London, Coleman, and Foy.
Longini, Richard L.
Manecke, Siegfried E.
Nagy, Rudolph, and Wollentin.
Petzinger, Ambrose J.
Specht, Theodore R.
Van Sickle, Roswell C.
Vandenberg, Frank.
Vore, Milton P., and Gelpi.
Wallace, James M., and Edwards.
Wasemann, William A.
Wexler, Aaron, and Cunningham.

Wetterborg, Erland, Halmstad, Sweden. Apparatus for feeding cylindrical workpieces into centerless-grinding machines. 2,655,773, Oct. 20.

Wettstein, Albert: *See*—
Miescher, Karl, Wettstein and Schmidlin.

Wexler, Aaron, Pittsburgh, and G. T. Cunningham, Greensburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Valve assembly. 2,655,936, Oct. 20.

Wheatland Tube Company, assignee: *See*—
Clarke, Charles C.

Whipple, William, Atlanta, Ga. Cylindroid tug. 2,655,890, Oct. 20.

Whirlpool Corporation, assignee: *See*—
Geldhof, Peter E., and Ringer.

Whistler, Lawrence V., Jr., assignee: *See*—
Whistler, Lawrence V.

Whistler, Lawrence V., Kenmore, assignor of one-half to L. V. Whistler, Jr., Tonawanda, N. Y. Means for registering noncylindrical punches and dies. 2,655,995, Oct. 20.

White, Ara L., assignor of one-half to T. A. Glavin, Edgewood, R. I. Stepladder having safety supporting bar. 2,656,088, Oct. 20.

White, Ben E., and J. A. Cushman, Jr., Reedsville, and A. A. Dukert, Upper Darby, Pa., assignors to American Viscose Corporation, Wilmington, Del. Enclosed cake tray. 2,656,041, Oct. 20.

White Cap Company, assignee: *See*—
Schmied, Joseph M.

White, Thomas A., Quanah, Tex. Rotary drilling bit. 2,656,153, Oct. 20.

White, William M., and R. P. Leavitt, assignors to Eastman Kodak Company, Rochester, N. Y. Film hanger rack. 2,655,849, Oct. 20.

Whitfield, Merrick S., assignee: *See*—
Clair, Louis C.

Whitney, Paul V., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Conveyer housing. 2,656,036, Oct. 20.

Whittingham, John C., and P. W. Nichols, Colorado Springs, Colo. Adjustable pilot chair. 2,655,981, Oct. 20.

Wickardt, Kurt W., assignor to Hosemaster Machine Company Limited, Liverpool, England. Straight bar knitting machine. 2,655,800, Oct. 20.

Wilcox, Chester M., Allentown, Md. Baseboard radiator. 2,656,156, Oct. 20.

William Cotton Limited, assignee: *See*—
Lynam, John E.

Williams, Leslie A.: *See*—
Knott, Edward B., and Williams.

Williams, Samuel L.: *See*—
Bent, Arthur J., and Williams.

Williamson, Oscar H., Riverside, Ill., assignor to International Paper Company, New York, N. Y. Box holding clamp. 2,655,962, Oct. 20.

Willison, Donald, Maple Heights, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Cushioning device. 2,656,182, Oct. 20.

Wilmington, Edna T., Chicago, Ill. Horological educational device. 2,655,739, Oct. 20.

Wilson, Harvey G., Taft, Calif. Pick for tubular locks. 2,655,806, Oct. 20.

Wilson, Jean J., Bournemouth, England. Apparatus for forming shaped objects from plastic material. 2,655,877, Oct. 20.

Wilson, Samuel A., assignor to Maloney-Crawford Tank & Manufacturing Company, Tulsa, Okla. Emulsion treater. 2,656,006, Oct. 20.
Winders, William D., Columbus, Ohio. Register apparatus for producing manifolded business records. 2,656,198, Oct. 20.
Winders, William D., Columbus, Ohio. Register apparatus for producing manifolded business records. 2,656,199, Oct. 20.
Winkelmann, Erwin, assignee: *See*—
Rohden, Rudolf H.
Wirth, Armin, Zurich, Switzerland. Weighing machine. 2,656,176, Oct. 20.
Witte, Walter R., Chicago, Ill. Fish scaling device. 2,655,689, Oct. 20.
Wold, Clarence H., Boise, Idaho. Towel and similar article hanger. 2,656,043, Oct. 20.
Wolf, Frederick W., Chicago, Ill. Traction wheel drive for automobiles. 2,656,001, Oct. 20.
Wolff, Paul H. W.: *See*—
Brownhill, Frank D., and Wolff.
Wollentin, Robert W.: *See*—
Nagy, Rudolph, and Wollentin.
Woods, John E., Cohasset, assignor to Standard-Thomson Corporation, Boston, Mass. System for controlling flow of circulating liquid. 2,656,114, Oct. 20.
Woodward, Oakley M., Jr., Princeton, N. J., assignor to Radio Corporation of America. Broad-band directive antenna. 2,656,463, Oct. 20.
Woolslayer, Homer J., C. D. Iddings, and J. S. Eaton, Tulsa, Okla., assignors to Lee C. Moore Corporation, Pittsburgh, Pa. Portable oil well derrick. 2,656,023, Oct. 20.
Worley, Will E., assignee: *See*—
Clair, Louis C.
Yacyshyn, Walter, Cleveland, Ohio. Lantern and reflector holder having pivotally adjustable supporting arm. 2,656,454, Oct. 20.
Yale & Towne Manufacturing Company, The, assignee: *See*—
Lock, Frank.
Yeater, Max L., Boulder, Colo., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Testing a metallic sample. 2,656,256, Oct. 20.
Yellott, John I., Cockeysville, Md., assignor to Institute of Gas Technology, Chicago, Ill. Manufacture of calorific gas. 2,656,264, Oct. 20.
Yohpe, Reinhard A., assignor to Union Steam Pump Company, Battle Creek, Mich. Reciprocating pump for food materials. 2,655,870, Oct. 20.
Young, David W.: *See*—
Sparks, William J., and Young.
Zachary, Alexis, New York, N. Y. Magnetic instrument for lifting hairpins. 2,656,211, Oct. 20.
Zenith Radio Corporation, assignee: *See*—
Gray, Richard O., and Roschke.
Herrick, Roswell H., and Roschke.
Morris, George V., and Miller.
Reeves, Pierce E.
Roschke, Erwin M., and Druz.
Roschke, Erwin M., and Gray.
Zieboiz, Herbert, assignor to Askania Regulator Company, Chicago, Ill. System for proportioning fluid flow to control signal magnitude. 2,656,902, Oct. 20.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 20TH DAY OF OCTOBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Key mechanism for alto and bass clarinets. L. Leblanc. Re. 23,725, Oct. 20.
Tool supporting structure, Hydraulic. J. G. Lindeman. Re. 23,726, Oct. 20.

LIST OF DESIGN INVENTIONS

Automobile fender guide. H. Ferman. 170,632, Oct. 20.
Bank, Coin. C. G. Bergman. 170,625, Oct. 20.
Bill and coin holder, Combination. H. K. Rosenbaum. 170,657, Oct. 20.
Bowl, Fruit. L. M. Ross. 170,660, Oct. 20.
Bowling game device. H. F. Spear. 170,664, Oct. 20.
Brooch or similar article. R. Semensohn. 170,661, Oct. 20.
Cabinet, Radio. S. E. Adler. 170,618–19, Oct. 20.
Cabinet, Radio. L. H. Wilson. 170,671, Oct. 20.
Cart, Caddy. F. A. Gastright. 170,636, Oct. 20.
Case, Instrument. R. M. Rowell and R. B. Kerr. 170,658, Oct. 20.
Cedar chest or the like. H. M. Barringer. 170,621, Oct. 20.
Clock and radio cabinet, Combination. S. E. Adler. 170,620, Oct. 20.
Clothes tree or the like. N. Davenport. 170,629, Oct. 20.
Container unit for disinfectants, deodorants, insecticides, and the like. D. Rauch. 170,655, Oct. 20.
Cup or similar article. G. R. Palmeter. 170,652, Oct 20.
Desk tray for typists' accessories. L. P. Caldwell and P. C. Wohlt. 170,627, Oct. 20.
Dispenser and condiment holder, Combined match. F. R. McNine. 170,650, Oct. 20.
Display package, Gift wrapping. H. Abrahams and I. Ruina. 170,617, Oct. 20.
Egg holder. B. W. Smith. 170,663, Oct. 20.
Fabric or similar article, Textile. N. Feinstein. 170,630, Oct. 20.
Fabric or similar article, Textile. J. E. Maisch. 170,646, Oct. 20.
Figurine. E. G. Frenzel. 170,634–5, Oct. 20.
Figurine. J. W. Lindner. 170,644, Oct. 20.
Game board. F. J. Rigney, Jr. 170,656, Oct. 20.
Glass. L. W. Stenger. 170,666, Oct. 20.
Holder for sewing accessories. T. V. Tierney and S. Gaccione. 170,668, Oct. 20.
Jewelry pendant or similar article. S. Stonberg. 170,667, Oct. 20.
Kit for physicians' and surgeons' supplies or similar article. E. J. Palczewski. 170,651, Oct. 20.
List finder. W. Lang. 170,641, Oct. 20.
Mailbox. A. W. Lindberg, Jr. 170,642–3, Oct. 20.
Manicure implement. R. D. Simmons. 170,662, Oct. 20.
Merry-go-round for children. M. G. McKee. 170,649, Oct. 20.
Mirror, Rearview. T. E. Brown. 170,626, Oct. 20.
Paper towel and wax paper dispenser. M. S. Ziskin and R. B. Billig. 170,673, Oct. 20.
Pin, Wedding anniversary. O. G. Feltner, Jr. 170,631, Oct. 20.
Plate or similar article. G. R. Palmeter. 170,654, Oct. 20.
Pouring can. E. J. Hoffman, Jr. 170,639, Oct. 20.
Projector, Portable. H. G. Fitz Gerald. 170,633, Oct. 20.
Puzzle, Block. F. Logue. 170,645, Oct. 20.
Railway car body. R. W. Haman and C. V. Norby. 170,637, Oct. 20.
Ring, Finger. C. Capraro. 170,628, Oct. 20.
Rolling pin holder or similar article. A. A. Powers. 170,659, Oct. 20.
Saucer or similar article. G. R. Palmeter. 170,653, Oct. 20.
Sewing machine, Fur. C. E. Hodgman. 170,638, Oct. 20.
Sleeve press. I. C. Maxwell and O. H. Langen. 170,647, Oct. 20.
Sofa and bed, Combination. E. J. Spence. 170,665, Oct. 20.
Spectacle frame or the like. R. J. T. Bauer. 170,622, Oct. 20.
Spectacles, Pair of. A. B. Belgard. 170,623–4, Oct. 20.
Stand. L. A. Wieland. 170,670, Oct. 20.
Stand or similar article, Manicure. E. R. Wagner. 170,669, Oct. 20.
Switch housing, Electric. A. Mazzola. 170,648, Oct. 20.
Table, Folding. A. M. Zalkind. 170,672, Oct. 20.
Tire. W. Humphries. 170,640, Oct. 20.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 20TH DAY OF OCTOBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aacus. S. F. Don Dero. 2,655,737, Oct. 20.
Accelerometer, Angular. T. W. Sheppard. 2,656,519, Oct. 20.
Acetylene gas generator with constant pressure. F. Passerl. 2,656,261, Oct. 20.
Acrylonitrile copolymers, Dyeable. P. W. Gann and G. E. Ham. 2,656,325, Oct. 20.
Acrylonitrile copolymers, Dyeable. G. E. Ham. 2,656,326, Oct. 20.
Acrylonitrile polymer solutions and articles formed therefrom. J. R. Caldwell. 2,656,328, Oct. 20.
Actuating mechanism for automatic electric toasters and the like. A. E. Smith. 2,655,860, Oct. 20.
Adjustable pilot chair. J. C. Whittingham and P. W. Nichols. 2,655,981, Oct. 20.
Adjustable scaffold clamp. P. Gray. 2,656,223, Oct. 20.
Air conditioner for motor vehicles. S. R. Hart. 2,655,856, Oct. 20.
Air conditioning system. M. G. Shoemaker. 2,655,793, Oct. 20.
Airspeed control system for aircraft, Automatic. W. G. Maurer and D. V. M. Green. 2,656,133, Oct. 20.
Alkali metal acid cyanamide, Preparation of. R. A. Vingee and L. J. Christmann. 2,656,246, Oct. 20.
Alkyl phenyl phosphoric acids and the salts thereof, Preparation of. H. R. Gamrath. 2,656,374, Oct. 20.
α-Aryl-9-oxodehydroabietinols. R. P. Jacobsen. 2,656,345, Oct. 20.
α-β Unsaturated cyclopolymethylenic ketones, Preparation of. M. Stoll. 2,656,391, Oct. 20.
Alphabetical and numerical character. C. A. Dinlocker and A. F. Steiert. 2,655,750, Oct. 20.
Alumina-base fillers for rubber compositions. H. J. Thibon and H. J. P. Mathieu. 2,656,250, Oct. 20.
Alumina hydrosols, Making. E. A. Hunter and C. N. Kimberlin, Jr. 2,656,321, Oct. 20.
Aluminum alloy containing mischmetal. J. B. Russell. 2,656,270, Oct. 20.
Amino bicyclohexyl-alkyl acid phosphate reaction product. S. C. Vaughn. 2,656,375, Oct. 20.
Aminoethylhydrocarbonoxycyclohexenes. J. A. Hogg, J. Korman, W. B. Reid, Jr., and A. H. Nathan. 2,656,386, Oct. 20.
Ammonium nitrilotrisulfate, Production of. N. H. Marsh. 2,656,252, Oct. 20.
Ammonium sulfate and calcium oxide manufacture. S. P. Robinson. 2,656,247, Oct. 20.
Ammonium sulfate production. R. K. Simms. 2,656,248, Oct. 20.
Amplifier network, Electrometer. P. S. Goodwin. 2,656,498–9, Oct. 20.
Ampoule cutter. E. F. Wenner. 2,655,767, Oct. 20.
Anchor, Lading band. J. S. Swann. 2,655,874, Oct. 20.
Anchor, Rail. C. H. Marvin. 2,656,117, Oct. 20.
Animal-restraining device. C. H. and W. L. Basler. 2,655,900, Oct. 20.
Animal trap. L. C. Cronberger. 2,655,759, Oct. 20.
Antenna, Broad-band directive. O. M. Woodward, Jr. 2,656,463, Oct. 20.
Antihistaminic substances. N. Sperber, D. Papa, and E. Schwenk. 2,656,358, Oct. 20.
Antiskid device. E. Gross. 2,655,971, Oct. 20.
Apparatus and method for adhesively bonding friction lining to brake shoes. J. C. Heintz, Jr. 2,655,975, Oct. 20.
Apparatus and process for handling fluidized solids. G. L. Matheson. 2,656,242, Oct. 20.
Apparatus for affixing fabric to printing tables. W. Geiringer. 2,655,865, Oct. 20.
Apparatus for automatically feeding and stitching slide fastener stringers to garment fly pieces. M. K. and J. E. Rohrlick. 2,655,884, Oct. 20.
Apparatus for automatically stopping die casting machines in the event of shot failure. L. H. Morin. 2,655,699, Oct. 20.
Apparatus for cleansing bottles. J. L. Herold. 2,655,929, Oct. 20.
Apparatus for controlling humidity conditions in bulk materials. C. E. Ohlheiser. 2,655,734, Oct. 20.
Apparatus for controlling the injection of liquid fuel to internal combustion engines. E. W. Downing. 2,655,907, Oct. 20.
Apparatus for defibrating waste paper. K. A. Skardal and O. B. Börjeson. 2,655,840, Oct. 20.
Apparatus for detecting the occurrence or approach of icing conditions. J. Kinsella. 2,656,525, Oct. 20.
Apparatus for feeding cylindrical workpieces into centerless-grinding machines. E. Wetterborg. 2,655,773, Oct. 20.
Apparatus for feeding lengths of drill pipe in succession to the drill pipe elevator of drill rigs. S. J. Tucker. 2,656,052, Oct. 20.
Apparatus for forming shaped objects from plastic material. J. J. Wilson. 2,655,877, Oct. 20.
Apparatus for grinding the needles of die drilling machines. E. J. Bartell. 2,655,768, Oct. 20.
Apparatus for handling and separating casting drum and casting. H. J. Snelson. 2,655,700, Oct. 20.
Apparatus for heat treatment of sewage sludge and method adapted to be carried out therein. W. S. Martin. 2,655,883, Oct. 20.
Apparatus for imparting false twist to yarn. Georges and Georg Heberlein, E. Weiss, K. Risch, and T. Odinga. 2,655,781, Oct. 20.
Apparatus for loading and unloading laminating presses. L. F. Samler. 2,656,048, Oct. 20.
Apparatus for locking cop tubes on cop winding machines. T. T. Bunch. 2,656,127, Oct. 20.
Apparatus for making blood films. C. McNeil. 2,655,898, Oct. 20.
Apparatus for measuring the vector difference of two alternating current voltages. M. P. Vore and M. J. Gelpi. 2,656,509, Oct. 20.
Apparatus for pelleting chain structure carbon black. C. H. Hohnadel. 2,656,257, Oct. 20.
Apparatus for photochemical dyeing. L. E. Ravich. 2,655,802, Oct. 20.
Apparatus for separating the flesh from the skin of fish. G. E. Hube. 2,655,688, Oct. 20.
Apparatus for the automatic serving of meals. M. Stern. 2,656,032, Oct. 20.
Apparatus for the gravity conveyance of adsorption media. E. Arnold, E. Hellmann, and W. Vollmer. 2,656,007, Oct. 20.
Apparatus for turning containers. A. M. Olson and G. W. Baker. 2,656,033, Oct. 20.
Apron with automatically adjustable belt. P. R. Swearingen. 2,655,659, Oct. 20.
Arbitrary function generator. R. P. Haviland. 2,656,101, Oct. 20.
Arbor, Tool-mounting. G. J. Towle. 2,656,190, Oct. 20.
Arc lamp. A. J. Hatch. 2,656,482, Oct. 20.
Aromatic-alkene copolymers of less than five per cent aromatic content. W. J. Sparks and D. W. Young. 2,656,340, Oct. 20.
Article feeding mechanism. J. M. Schmied. 2,656,085, Oct. 20.
Article of furniture. K. M. Jacobs. 2,655,983, Oct. 20.
Artificial lure. A. G. Boyce. 2,655,757, Oct. 20.
Ash tray for automotive vehicles, Pneumatic. T. Leland. 2,656,039, Oct. 20.
Attenuator for recording systems. C. H. Schlesman. 2,656,468, Oct. 20.
Automatic conditioned air system with compensation for clogging filter. B. G. Copping. 2,656,112, Oct. 20.
Automatic film advancer for roll film cameras and brake and release means therefor. W. F. Horns. 2,656,128, Oct. 20.
Automatic gun. M. M. Johnson, Jr. 2,655,837, Oct. 20.
Automatic material feed control for cereal comminuting apparatus. F. Tanner. 2,656,121, Oct. 20.
Automatic operation controller having predetermining means. H. Lindars. 2,656,109, Oct. 20.
Automobile body having pivoted end sections. M. A. C. Alamagny. 2,656,214, Oct. 20.
Awning, Slat. S. J. Albany. 2,655,697, Oct. 20.
Backing for laps. T. G. Lewis. 2,655,772, Oct. 20.
Bag of open-mesh material and paper. C. V. Brady and A. F. Ottinger. 2,655,969, Oct. 20.
Ball pitching machine, Rotary. J. J. Calleo. 2,655,908, Oct. 20.
Balloon manufacturing process, Multiple gore. W. F. Huch. 2,656,293, Oct. 20.
Bar: *See*—
Power actuated adjustable tire demounting bar.
Basket, Collapsible. W. Terry. 2,655,970, Oct. 20.
Basket, Illuminated rotary clothes-washing. H. Rick. 2,656,451, Oct. 20.
Beacon receiver, Wide frequency coverage. J. H. Tinlot. 2,656,459, Oct. 20.

Belt drive for grind mill roll stands. K. McClelland. 2,655,815, Oct. 20.
Billfold retainer clip. R. L. Hatfield. 2,655,705, Oct. 20.
Bit: *See*—
Rotary drilling bit.
Blank forming apparatus. J. R. Baumgartner. 2,655,842, Oct. 20.
Blocking-layer rectifier. R. Duval. 2,656,494, Oct. 20.
Blower structure. S. P. Campbell. 2,656,095, Oct. 20.
Bonding a body of polyethylene to a surface and adhesives used therefor. H. G. Davis, Jr., W. L. Durette, and E. C. Johnson. 2,656,297, Oct. 20.
Bonding machine. A. E. Carlile. 2,655,980, Oct. 20.
Bowl, Mixer. J. A. Schwarz. 2,656,163, Oct. 20.
Bowl, Sugar. T. Pasta. 2,655,799, Oct. 20.
Bowling ball grip structure. V. L. Anderson. 2,656,188, Oct. 20.
Box blank forming machine. G. S. Sillars. 2,655,844, Oct. 20.
Box holding clamp. O. H. Williamson. 2,655,962, Oct. 20.
Box rim construction, Metal. E. W. Riemenschneider. 2,656,086, Oct. 20.
Brake: *See*—
Permanent magnet brake.
Brake anchor tool. J. B. Durham. 2,655,720, Oct. 20.
Brake apparatus. A. J. Bent and S. L. Williams. 2,656,018, Oct. 20.
Brake apparatus, Combined pneumatic and dynamic. C. M. Hines. 2,656,222, Oct. 20.
Brake beam. C. R. Busch. 2,656,019, Oct. 20.
Brake construction. R. Lapsley. 2,656,015, Oct. 20.
Brake disk, Air-cooled. H. J. Butler. 2,656,021, Oct. 20.
Brake release mechanism, Automatic. J. F. Martin. 2,656,025, Oct. 20.
Brake shoe bonder. J. C. Heintz, Jr. 2,655,974, Oct. 20.
Brake shoe, Reinforced cast. J. C. McCune. 2,656,022, Oct. 20.
Braking apparatus for aircraft, Automatic. H. W. Trevaskis. 2,656,017, Oct. 20.
Breaker mechanism for deferred action batteries. F. L. Everett. 2,656,401, Oct. 20.
Brush and prolonging its life, Electrical machine. J. E. Diehl and P. Smisko. 2,656,475, Oct. 20.
Building drum, Collapsible. H. C. Hodgkins. 2,655,977, Oct. 20.
Building panels, Making. B. Roensch and P. Brown. 2,655,710, Oct. 20.
Burial apparatus. M. W. Chrisman. 2,655,713, Oct. 20.
Burner: *See*—
Combination oil-gas fired conversion burner.
Radiant gas burner.
Burner of the projected flame type. J. W. Pennington. 2,655,986, Oct. 20.
Burner system for liquid fuels. R. Martiri. 2,655,989, Oct. 20.
Burner unit, Commercial swingable. W. Kennedy. 2,655,912, Oct. 20.
Burner with replaceable fuel nozzles, Liquid fuel. E. S. Collinson. 2,655,990, Oct. 20.
Butt-gauging tool. H. T. Morgan. 2,655,732, Oct. 20.
Cabinet structure, Filing. J. Adler. 2,656,238, Oct. 20.
Cable and housing connector. C. W. Musser. 2,656,203, Oct. 20.
Cable mounting for scrapers or graders. H. H. Washbond. 2,655,742, Oct. 20.
Calculating machines, Duplex register. G. C. Ellerbeck. 2,656,104, Oct. 20.
Calorific gas, Manufacture of. J. I. Yellott. 2,656,264, Oct. 20.
Cam closing hand tool. K. J. Klenk. 2,655,722, Oct. 20.
Camming article clamp. L. P. Petruschell. 2,656,140, Oct. 20.
Capacitor and circuit. W. H. Cherry. 2,656,466, Oct. 20.
Carbodiimides, Preparation of. E. Schmidt and R. Schnegg. 2,656,383, Oct. 20.
Carbon black. G. L. Heller. 2,656,254, Oct. 20.
Carburetor. E. M. Bimberg. 2,656,165, Oct. 20.
Carpet sweeper casing. B. R. Thiele. 2,655,677, Oct. 20.
Carton construction. R. C. Ellsworth. 2,656,092, Oct. 20.
Case filling machine. A. C. Davis. 2,656,081, Oct. 20.
Casing for toilet seats, Replacement. L. Schmidt. 2,655,666, Oct. 20.
Casket, Burial. C. W. Glassner. 2,655,712, Oct. 20.
Catalyst and preparing same. J. F. Eberle. 2,656,322, Oct. 20.
Catalytic decompositions of formic acid in acetic acid mixtures with other organic compounds. J. S. MacKenzie and O. H. Axtell, Jr. 2,656,379, Oct. 20.
Catalytic desulfurization of petroleum hydrocarbons. F. W. B. Porter and J. N. Haresnape. 2,656,302, Oct. 20.
Catalytic polymerization process. G. F. D'Alelio. 2,656,334, Oct. 20.
Catalytic polymerization process. G. F. D'Alelio. 2,656,341, Oct. 20.
Ceramic petal cutting means. R. E. Gentry. 2,655,709, Oct. 20.
Chain: *See*—
Saw chain.
Spring bushed chain.
Chair: *See*—
Adjustable pilot chair.
Orthopedic chair.
Charge forming device. E. H. Foster. 2,656,166, Oct. 20.
Charge forming device. B. C. Phillips. 2,656,167, Oct. 20.
Charging scrap metal, Means for. L. S. Longenecker. 2,656,055, Oct. 20.
Chlorine concentration sensitive apparatus. J. R. MacKay. 2,656,526, Oct. 20.
Chopper, Meat. D. D. Mallory. 2,655,967, Oct. 20.
Chuck. P. P. Hepp. 2,656,192, Oct. 20.
Cigarette lighter filing plug. G. W. Mitchell. 2,656,067, Oct. 20.
Circuit: *See*—
Measuring circuit.
Stable delay circuit.
Stabilized television circuit.
Voltage supply control circuit.
Circuit breaker. W. T. Allen. 2,656,437, Oct. 20.
Circuit breaker. H. D. Dorfman. 2,656,440, Oct. 20.
Circuit breaker. G. J. Freese. 2,656,436, Oct. 20.
Circuit breaker. H. S. Gano and G. J. Freese. 2,656,432, Oct. 20.
Circuit breaker. F. L. Gelzheiser and J. A. Drobney. 2,656,439, Oct. 20.
Circuit breaker, Automatic reclosing. A. W. Edwards. 2,656,433, Oct. 20.
Circuit breaker mechanism. R. C. Van Sickle. 2,656,430, Oct. 20.
Circuit breaker operating mechanism. J. K. Hodnette and M. G. Leonard. 2,656,438, Oct. 20.
Clamp: *See*—
Adjustable scaffold clamp.
Box holding clamp.
Camming article clamp.
Spring clamp.
Clamp. L. H. Flora. 2,655,703, Oct. 20.
Clamp and aligning gauge for sawing machines, Work. E. C. Krueger and A. L. Vander Linde. 2,655,959, Oct. 20.
Cleaner: *See*—
Paraffin cleaner.
Suction cleaner.
Cleansing machine, Bottle. J. L. Herold. 2,655,928, Oct. 20.
Clip: *See*—
Billfold retainer clip.
Pen or pencil clip.
Clip expander. A. L. Guyette. 2,656,049, Oct. 20.
Clock with neon-illumination of dial and hands, Luminous. W. Uschkamp. 2,655,783, Oct. 20.
Closing bags, Means for. G. R. Smith. 2,656,093, Oct. 20.
Coated soft iron and steel sheets, Production of. R. S. Burns and R. L. Solter. 2,656,285, Oct. 20.
Coating paper webs and product thereof. H. C. Fisher and B. E. Sooy. 2,656,286, Oct. 20.
Coffee maker, Automatic. P. B. Bell. 2,655,859, Oct. 20.
Coller, Spring. E. H. Hoelsch. 2,655,973, Oct. 20.
Coking a mixture of a carbonaceous material and a high boiling bituminous pitch. W. T. Brown. 2,656,309, Oct. 20.
Collapsible tube dispenser. H. J. and E. A. Fogarty. 2,656,069, Oct. 20.
Collar, Shirt. J. Persin. 2,655,661, Oct. 20.
Color reproduction. H. J. Selling. 2,656,099, Oct. 20.
Comb. B. Ulvad. 2,655,925, Oct. 20.
Combination oil-gas fired conversion burner. E. A. Norman, Jr. 2,655,987, Oct. 20.
Combined foot and bedcover support. W. L. Nelson. 2,655,668, Oct. 20.
Combing machine of the rectilinear type. J. Gressel. 2,655,696, Oct. 20.
Combustion chamber, Two-cycle. S. M. Udale. 2,655,906, Oct. 20.
Combustion chamber with variable area primary air inlet, Gas turbine. E. D. Brown. 2,655,787, Oct. 20.
Compensating metallic thrust ring. P. D. Comery. 2,656,227, Oct. 20.
Compressor, Piston ring. J. F. Nelson. 2,655,719, Oct. 20.
Computing device, Average. C. S. Mundell. 2,656,100, Oct. 20.
Computing machine. R. M. Redheffer. 2,656,102, Oct. 20.
Concrete area adapted for airplane runways and the like, Large sized. E. Freyssinet. 2,655,846, Oct. 20.
Concrete pavement. E. Freyssinet. 2,655,845, Oct. 20.
Condensate stripper. L. V. Larsen. 2,656,262, Oct. 20.
Condiment dispenser. E. W. Clark. 2,656,075, Oct. 20.
Conducting moving contact material hydrocarbon conversion processes, Method and apparatus for. E. V. Bergstrom and E. R. Sorf. 2,656,306, Oct. 20.
Connection between band parts and loops. I. Rubin. 2,655,707, Oct. 20.
Connector for liquid storage tanks. L. V. Larsen. 2,656,263, Oct. 20.
Connector for toy construction members. D. W. Adams. 2,655,761, Oct. 20.
Container: *See*—
Flame and radiation resistant container.
Master shipping container.
Nonspill powder container.
Container for fishing leaders, Dispensing. A. C. Johnson. 2,656,131, Oct. 20.
Container forming apparatus. L. B. Eaton. 2,655,979, Oct. 20.
Continuous aim gun control mechanism. H. Ernst and A. H. Hawley. 2,655,838, Oct. 20.
Continuous fluid hydroforming. R. E. MacPherson, Jr. and O. Schricker, Jr. 2,656,304, Oct. 20.
Continuously making vulcanized articles, Method of and apparatus for. G. E. Henning. 2,655,690, Oct. 20.
Control apparatus. J. Hagen. 2,655,777, Oct. 20.

Control device for gun perforators. L. Spencer. 2,655,993, Oct. 20.
Control for automatic washing machines. J. Bochan. 2,656,431, Oct. 20.
Control for fluid operated presses. B. A. Buss. 2,655,744, Oct. 20.
Control of variable pitch airscrews for aircraft. J. Martin. 2,655,998, Oct. 20.
Control system for cutting apparatus. F. Vandenberg. 2,655,994, Oct. 20.
Control system for dirigible craft. C. R. Hanna and K. A. Oplinger. 2,656,134, Oct. 20.
Controlling the rate of supply of liquid fuel to prime movers, Means for. T. A. Harris. 2,655,945, Oct. 20.
Conversion of hydrocarbon materials. R. A. Findlay. 2,656,307, Oct. 20.
Conveyer belt. C. Thomson and S. H. Gordon. 2,656,035, Oct. 20.
Conveyer housing. P. V. Whitney. 2,656,036, Oct. 20.
Cooker control apparatus. C. R. Turner. 2,656,450, Oct. 20.
Cooler: *See*—
Refrigerator condensing unit cooler.
Thermostatically controlled milk cooler.
Cooling of gas turbine rotors. F. D. Brownhill and P. H. W. Wolff. 2,656,147, Oct. 20.
Cooling tower unit. R. O. Ayres. 2,656,168, Oct. 20.
Copolymers of acrylonitrile and allyl and 2-methallyl chlorides. J. R. Caldwell. 2,656,337, Oct. 20.
Copolymers of butene-1 derivatives. M. R. Lytton. 2,656,338, Oct. 20.
Corrosion preventing means. C. M. Osterheld. 2,656,314, Oct. 20.
Corrugated plastic laminates, Method and means for manufacturing. D. Gonda and A. A. Hodge. 2,655,978, Oct. 20.
Cotton stripper. E. Dugan. 2,655,780, Oct. 20.
Counter, Bidirectional. B. McMillan. 2,656,460, Oct. 20.
Counting and computing device, Lumber. T. S. Terrill. 2,656,105, Oct. 20.
Counting device. B. Vogler. 2,656,107, Oct. 20.
Counting particles suspended in a fluid, Means for. W. H. Coulter. 2,656,508, Oct. 20.
Coupling: *See*—
Flexible shaft coupling.
Rotary, turbine type hydraulic coupling.
Coupling apparatus, Radio frequency. J. L. Johnson. 2,656,517, Oct. 20.
Cover: *See*—
Hatch cover.
Toothbrush cover.
Covering a bowling pin. W. L. Hunt. 2,656,294, Oct. 20.
Cracking with mixed catalysts. C. K. Viland. 2,656,305, Oct. 20.
Crane, Logging. M. D. Troyer. 2,656,059, Oct. 20.
Crankcase ventilation kit. W. E. Drinkard. 2,656,000, Oct. 20.
Crossbar system switchboard unit mounting. R. P. Arthur. 2,656,418, Oct. 20.
Crown tooth support. P. Brooks. 2,655,724, Oct. 20.
Crusher with combination feed and crushing screw. H. L. Smith and A. A. Gustafson. 2,656,123, Oct. 20.
Crystal unit for use at high temperatures. A. W. Warner, Jr. 2,656,473, Oct. 20.
Cultivator attachment, Multiple purpose. E. H. Holden. 2,655,855, Oct. 20.
Cultivator, Tractor-mounted. J. M. Lee. 2,655,853, Oct. 20.
Curb type reflectorized directional street sign. H. H. Hirt. 2,655,748, Oct. 20.
Curing positive storage battery plates, Method and apparatus for. A. L. Hindall and W. D. Carson. 2,656,399, Oct. 20.
Cushioning device. D. Willison. 2,656,182, Oct. 20.
Cutoff for hydropneumatic tanks, Low-pressure. J. A. Dodd. 2,655,931, Oct. 20.
Cutter: *See*—
Ampoule cutter.
Cyanamide, Preparation of. J. S. Mackay. 2,656,253, Oct. 20.
Cyclohexanols. J. A. Hogg, J. Korman, W. B. Reid, Jr., and A. H. Nathan. 2,656,385, Oct. 20.
Cyclopentanoperhydrophenanthrene derivatives, Preparing. F. Neumann, J. Pataki, and S. Kaufmann. 2,656,363, Oct. 20.
Cyclopolymethylenic ketones, Preparation of. M. Stoll. 2,656,390, Oct. 20.
Cylindroid tug. W. Whipple. 2,655,890, Oct. 20.
DDT, Production of. C. Hayward. 2,656,396, Oct. 20.
Data storage and reproducing apparatus. D. H. Gridley and A. J. Stecca. 2,656,524, Oct. 20.
Dead bolt latch. I. J. Fletcher. 2,656,205, Oct. 20.
Debarker having revolving flails, Log. W. P. McComb, Jr. 2,655,961, Oct. 20.
Deflecting, guiding, and sizing means for loaf molding mechanisms. J. E. Mohr and M. A. Sticelber. 2,655,875, Oct. 20.
Δ^{17}-20-cyano-11-hydroxypregnenes. R. P. Graber and N. L. Wendler. 2,656,368, Oct. 20.
Derrick, Portable oil well. H. J. Woolslayer, C. D. Iddings, and J. S. Eaton. 2,656,023, Oct. 20.
Developing aged photosensitive material containing silver halide and a chromate. W. Neugebauer and M. K. Reichel. 2,656,271, Oct. 20.
Device for delivering cards, especially railway tickets. W. Bollmann. 2,656,233, Oct. 20.
Device for healtng orchards. P. G. Watkins. 2,655,764, Oct. 20.
Device for limiting rotary motion. W. H. Behrens. 2,655,811, Oct. 20.
Device for mixing and feeding fertilizer. H. G. Kornberg. 2,656,072, Oct. 20.
Device for packaging flat flexible articles. R. B. Brown. 2,656,082, Oct. 20.
Device for producing bactericide OH-ions through electrolysis for dental treatment. A. Knappwost. 2,655,922, Oct. 20.
Device to permit radar contour mapping of rain intensity in rainstorms. D. Atlas. 2,656,331, Oct. 20.
Differential pressure switch. E. E. Harris. 2,656,428, Oct. 20.
Dimpling apparatus and procedure for hollow parisons. J. R. Haden. 2,655,766, Oct. 20.
Diphenylamine, Production of. G. T. Johannesen. 2,656,389, Oct. 20.
Direction sensing device. H. C. May. 2,655,938, Oct. 20.
Dis- and polyazo dyestuffs and making same. O. Knecht and H. Iscber. 2,656,346, Oct. 20.
Dispenser: *See*—
Collapsible tube dispenser.
Salt dispenser.
Condiment dispenser.
Dispensing apparatus, Beverage. H. H. Hamlin. 2,655,858, Oct. 20.
Dispensing mechanism, Fertilizer. A. G. Buhr. 2,656,073, Oct. 20.
Disposal of slime-bearing water. R. Chelminski. 2,656,118, Oct. 20.
Distillation of oil-shale. E. S. Pettyjohn. 2,656,368, Oct. 20.
Distributing bucket for adjustable angle booms. R. F. Lindow. 2,656,056, Oct. 20.
Document straightening means for photographic copying apparatus. N. J. Rosenburgh. 2,656,186, Oct. 20.
Doll, Puppet. D. Burke. 2,655,762, Oct. 20.
Dolly for rolled materials such as carpeting. L. H. Best and O. W. Johnson. 2,656,050, Oct. 20.
Door: *See*—
Overhead door.
Door hanger and check device for trucks, Sliding. P. D. Harvey. 2,656,215, Oct. 20.
Drain valve. M. S. Lipman. 2,655,932, Oct. 20.
Drier: *See*—
Electric radiant heat drier.
Drive for spinning and twisting frames, Change-over. R. W. Cutler. 2,655,782, Oct. 20.
Drive mechanism for shaker conveyers. E. R. Bergmann. 2,656,037, Oct. 20.
Driving mechanism for phonographs. J. L. D. Morrison. 2,655,812, Oct. 20.
Drying machine. A. Traube. 2,655,735, Oct. 20.
Dumping device, Concrete. F. Knowlton. 2,656,164, Oct. 20.
Dusting and polishing device. H. S. Geerin. 2,655,680, Oct. 20.
Dusting machine, Flour. A. H. Thompson. 2,655,897, Oct. 20.
Dye-receptive acrylonitrile polymers, Preparing. G. E. Ham. 2,656,336, Oct. 20.
Educational device, Horological. E. T. Wilmington. 2,655,739, Oct. 20.
Egg breaking machine. J. C. Gill. 2,655,965, Oct. 20.
Electric discharge device starter. S. M. Gray and R. C. Svenson. 2,656,488, Oct. 20.
Electric radiant heat drier. E. C. Elgar. 2,656,449, Oct. 20.
Electric resistance welding tool. A. Albarranc. 2,656,446, Oct. 20.
Electric steam iron. J. O. Thibault. 2,655,745, Oct. 20.
Electric switch. A. H. Midgley. 2,656,423, Oct. 20.
Electrical coils insulated with mica and synthetic resins and the products thereof, Producing. L. J. Berberich and H. M. Philofsky. 2,656,290, Oct. 20.
Electrode for primary batteries. A. Fischbach and F. Hochberg. 2,656,402, Oct. 20.
Electron discharge device and processing thereof. G. T. Ford. 2,656,489, Oct. 20.
Electron discharge device of the resonator type. M. Apstein. 2,656,483, Oct. 20.
Electron gun centering device for cathode-ray tubes. H. W. Leighton. 2,656,481, Oct. 20.
Electrostatic machine. N. Felici. 2,656,302, Oct. 20.
Elevator, Vehicle hauling. R. D. and D. L. Filsinger. 2,656,034, Oct. 20.
11α-hydroxy-4-androstene-3,17-dione. H. C. Murray and D. H. Peterson. 2,656,370, Oct. 20.
Emergency acting control unit for fluid brakes. F. O. Lawson. 2,656,145, Oct. 20.
Emergency control for centralized traffic control systems. H. C. Van Tassel. 2,656,455, Oct. 20.
Emulsion treater. S. A. Wilson. 2,656,006, Oct. 20.
End connection for slide fasteners, Separable. R. W. Simpson. 2,655,704, Oct. 20.
Engine adapted to operate with or without atmospheric air chiefly for the propulsion of warships, Turbine gas. M. H. L. Sédille. 2,655,788, Oct. 20.
Engine mount, Dynamic. J. H. Leggett and R. M. Moyer. 2,656,137, Oct. 20.

Engine oil consumption apparatus. G. J. Liddell. 2,656,177, Oct. 20.
Esters of oxodehydroabietic acid, Preparation of. P. F. Ritchie. 2,656,344, Oct. 20.
Extractor: *See*—
Fruit juice extractor.
Fabric: *See*—
Loop pile fabric.
Terry weave fabric.
Fabricated casing structure. H. A. Bues. 2,656,064, Oct. 20.
Face shield for welders, Vented. W. C. Moeller. 2,655,656, Oct. 20.
Fastener: *See*—
Tire chain fastener.
Fastener-inserting machine. W. A. Barker. 2,655,655, Oct. 20.
Feed locus for semiparabolic reflector. C. V. Robinson. 2,656,464, Oct. 20.
Feeler apparatus for controlling wrench. S. P. Johnson. 2,655,827, Oct. 20.
Fibrous sheet covered plywood, Manufacturing. D. H. Grangaard. 2,656,296, Oct. 20.
Filament tensioning device. P. I. Corbell and R. J. Black. 2,656,480, Oct. 20.
File, Slide. A. E. Milliken. 2,656,239, Oct. 20.
Film hanger rack. W. M. White and R. P. Leavitt. 2,655,849, Oct. 20.
Film magazine, Endless. W. C. Eddy. 2,656,184, Oct. 20.
Film winding and shutter tensioning control camera mechanism, Automatic. J. E. Harvey. 2,655,847, Oct. 20.
Filter: *See*—
Multisection acoustic filter.
Filter using transverse supporting means. M. L. Doelz. 2,656,516, Oct. 20.
Fin assembly, Releasable. C. L. Barker and R. G. Gaviak. 2,656,135, Oct. 20.
Finger grip for handles of tools. R. H. Dell. 2,655,963, Oct. 20.
Fishing tackle. S. N. Polis. 2,655,756, Oct. 20.
Fixture for annular fluorescent lamps. L. J. Segil. 2,656,453, Oct. 20.
Flame and radiation resistant container. J. E. Tripp. 2,655,882, Oct. 20.
Flame finishing of granite surfaces. R. B. Aitchison, H. L. Hicks, and J. R. Craig. 2,655,909, Oct. 20.
Flexible gate valve. F. C. Fantz. 2,656,143, Oct. 20.
Flexible shaft coupling. E. P. Neher. 2,655,798, Oct. 20.
Floating storage tank. I. W. Alcorn. 2,655,888, Oct. 20.
Flocking machine. E. A. Abeles. 2,655,895, Oct. 20.
Fluid leakage indicator. C. W. Cox, F. A. Donovan, and J. T. Frantz. 2,655,893, Oct. 20.
Fluid pressure control valve. V. L. Frantz. 2,656,144, Oct. 20.
Fluid pressure operated switch. R. H. Tietjen. 2,656,429, Oct. 20.
Fluid-tight joint. M. W. Galliers. 2,656,200, Oct. 20.
Fluorene derivatives. J. F. Kerwin and G. E. Ullyot. 2,656,387, Oct. 20.
Fluorescent lamp holder. W. E. Barre, Jr. 2,656,521, Oct. 20.
Fluorine containing urea derivatives. V. V. Lindgren and J. T. Cassaday. 2,656,384, Oct. 20.
Fluoroscoping and radiographing renal organs of the human body, Method of and apparatus for. A. Laur. 2,656,469, Oct. 20.
Flush control device for water tanks. J. S. Agnew. 2,655,665, Oct. 20.
Flying ship. J. V. Martin. 2,656,136, Oct. 20.
Folding box machine. T. R. Baker and F. M. Lefief. 2,655,843, Oct. 20.
Folding table. O. A. Raphael. 2,656,232, Oct. 20.
Food product, especially milk, and making it, Dried or evaporated. H. A. Toulmin, Jr. 2,656,276, Oct. 20.
Forming lamp filaments. O. Mann and R. B. Thomas. 2,655,952, Oct. 20.
Forming sheet glass, Method and apparatus for. E. L. Walters. 2,655,765, Oct. 20.
Forming vulcanized articles, Method of and apparatus for. G. E. Henning. 2,655,091, Oct. 20.
Forming wound magnetic cores. U. S. Dunn. 2,655,717, Oct. 20.
14,15-oxides of the cyclopentanopolyhydrophenanthrene and polyhydrochrysene series. L. Ruzicka and P. Plattner. 2,656,349, Oct. 20.
Frame: *See*—
Spectacle frame.
Friction element for disk brakes. J. C. McCune. 2,656,020, Oct. 20.
Front apron construction for carry-type earth scoop. B. F. Owen. 2,655,741, Oct. 20.
Fruit juice extractor. J. J. Mitnick. 2,655,862, Oct. 20.
Fuel oils and naphthenic acid soaps, Production of. C. R. Turner. 2,656,380, Oct. 20.
Fume disposal system. J. P. Engel. 2,656,008, Oct. 20.
Furnace for contacting a gas and fluidized solids, Reaction. F. L. Symonds. 2,656,258, Oct. 20.
Furnace for heating crucibles and the like. G. E. Markley. 2,656,171, Oct. 20.
Further aminized aminoalkylated celluloses by reacting with ethylenimine, G. L. Drake, Jr. and J. D. Guthrie. 2,656,241, Oct. 20.
Fuse, High-voltage. H. H. Fahnoe. 2,656,435, Oct. 20.
Fuze. J. D. Jordan. 2,655,867, Oct. 20.
Gain control system for seismic amplifiers. G. B. Loper. 2,656,422, Oct. 20.
Game apparatus, Card. J. Lipschitz. 2,655,736, Oct. 20.
Game apparatus of the shuffleboard type, Amusement. D. W. Price. 2,656,189, Oct. 20.
Gantry and gate for starting race horses. D. L. Alloway. 2,655,899, Oct. 20.
Gap frame press. E. K. Johansen. 2,656,028, Oct. 20.
Garbage disposal unit. C. D. Russell. 2,655,966, Oct. 20.
Garment. M. Racz. 2,655,660, Oct. 20.
Garment hanger. H. E. Gensky and S. D. Schroeder. 2,656,077, Oct. 20.
Garment hanger. W. F. Helwig. 2,656,079, Oct. 20.
Gas filter indicator. M. Babbitt. 2,655,894, Oct. 20.
Gas torch tip having protective terminal shoe. D. A. Marra. 2,655,988, Oct. 20.
Gate package, Disassembled. W. O. Pope. 2,656,040, Oct. 20.
Generator: *See*—
Arbitrary function generator.
Girdle. J. B. Connors. 2,655,658, Oct. 20.
Glove. E. L. V. Edler. 2,655,662, Oct. 20.
Golf ball retriever. E. G. Lockie. 2,656,061, Oct. 20.
Governor for prime mover with compressed air control for adjusting it to a wide range of speeds. R. R. Crookston. 2,656,174, Oct. 20.
Grid construction for rooflight. G. H. Lenke. 2,655,881, Oct. 20.
Grill, Air supply. G. K. J. Broberg. 2,655,857, Oct. 20.
Grinding implement, Rotary. F. C. Fehrman. 2,655,725, Oct. 20.
Grommeted lead panel for oil-filled electrical apparatus. W. C. Sealey. 2,656,403, Oct. 20.
Guide device for industrial flat belts, ropes, or the like. D. K. Holm. 2,655,814, Oct. 20.
HCN, Manufacture of. L. J. Christmann and A. G. Houpt. 2,656,251, Oct. 20.
Hair curler. J. Parrilla. 2,655,926, Oct. 20.
Hair dyeing and bleaching device. M. Petitta. 2,655,924, Oct. 20.
Hammer, Automatic sheet metal reforming. J. Gendron. 2,655,825, Oct. 20.
Hammer, Pneumatic. L. N. Brown. 2,655,901, Oct. 20.
Hand signal light. H. N. Burgess. 2,656,529, Oct. 20.
Hand tool. C. P. Saylor. 2,656,225, Oct. 20.
Hand weaving loom. H. L. G. Berglund. 2,655,947, Oct. 20.
Handle. E. T. Kump. 2,656,210, Oct. 20.
Handle and support leg for ironer cabinets, Combination. C. M. Hall. 2,656,237, Oct. 20.
Handle bar fork, Bicycle. H. L. Mueller. 2,656,202, Oct. 20.
Handsaw level. F. G. Costa. 2,655,733, Oct. 20.
Hanger: *See*—
Garment hanger.
Towel and similar article hanger.
Skirt hanger.
Harmonica instructor, Automatic. A. Balint. 2,655,830, Oct. 20.
Harvester, Marine growth. L. T. Sanders. 2,655,779, Oct. 20.
Harvester with automatic level maintaining apparatus. A. O. Saulsbury. 2,656,194, Oct. 20.
Hatch cover. K. W. Jernstrom. 2,655,889, Oct. 20.
Hearing aid with inductive pickup for telephone reception, Wearable. S. F. Lybarger. 2,656,421, Oct. 20.
Heat dissipator, Pilot burner. L. H. McCammant. 2,655,913, Oct. 20.
Heat exchanger and manufacturing same, Plate type. P. Hodson and E. A. Lundstrom. 2,656,158, Oct. 20.
Heat, exchanger, Laminated. S. Holm and W. E. Hammond. 2,656,159, Oct. 20.
Heat-sealing. C. G. Bennett. 2,655,776, Oct. 20.
Heat transfer element supported against external or internal pressures. E. W. Wasielewski. 2,656,157, Oct. 20.
Heating apparatus for fuel tanks. V. E. Lagrange. 2,655,792, Oct. 20.
Heating objects, Method and apparatus for. C. P. Mann. 2,656,170, Oct. 20.
Heating tube for deep fat fryers. W. C. Proehl. 2,655,944, Oct. 20.
Helicopter rotor actuation and control. A. C. Peterson. 2,655,997, Oct. 20.
Heterocyclic sulfonic acids, Preparation of. R. A. Mathes and F. D. Stewart. 2,656,354, Oct. 20.
High explosive disk-shaped charge for seismic exploration. T. C. Poulter. 2,656,003, Oct. 20.
High octane gasoline, Making. R. A. Findlay. 2,656,301, Oct. 20.
High-speed tape-handling mechanism. J. E. De Turk and J. H. MacNeill. 2,656,129, Oct. 20.
Hinge. J. F. Summeregill. 2,655,686, Oct. 20.
Hinge, Door. J. H. Lewis. 2,655,685, Oct. 20.
Hoist construction. F. Lock. 2,656,150, Oct. 20.
Holder: *See*—
Fluorescent lamp holder.
Square assembly holder.
Skate holder.
Holder for cards or memorandum pads. P. Dorenbaum. 2,655,760, Oct. 20.
Holder for spools of wrapping cord. J. G. Inman. 2,656,130, Oct. 20.
Holding folding tables from shifting when stacked, Means for. J. A. Mahr. 2,656,231, Oct. 20.
Holdup attachment for safes and vault locks. G. G. Bateman. 2,655,807, Oct. 20.

Hydraulic gain control. C. A. Strayer and J. R. Clifton. 2,655,904, Oct. 20.
Hydraulic gin breast lift. W. L. Ford. 2,655,695, Oct. 20.
Hydrocarbon fractionation. L. L. Henning. 2,656,310, Oct. 20.
Hydrocarbon segregation utilizing urea and a nitrile. C. N. Kimberlin, Jr., and W. F. Arey, Jr. 2,656,342, Oct. 20.
Hydrogen, Manufacture of. W. B. Johnson. 2,656,255, Oct. 20.
Hydroperoxides of dehydroabietic acid derivatives. P. F. Ritchie. 2,656,343, Oct. 20.
Hydrostatic apparatus. P. Brierley. 2,655,943, Oct. 20.
Implement to facilitate dressing of grinding wheels. P. E. Grow. 2,655,910, Oct. 20.
Improving the flame resistance of metal and product. W. F. Locke. 2,656,295, Oct. 20.
Index device, Card. N. P. Mathiesen. 2,656,091, Oct. 20.
Indicating device for seam welding apparatus. F. M. Darner and W. S. Schaefer. 2,656,447, Oct. 20.
Indicator: *See*—
Fluid leakage indicator. Gas filter indicator.
Indicator having reversible counting means, Shaft position. H. P. Stabler. 2,656,106, Oct. 20.
Inertia differentially modified governor. R. Lee. 2,656,175, Oct. 20.
Inertia switch. M. M. Collins. 2,656,089, Oct. 20.
Inhalation apparatus. J. M. L. Jones. 2,655,918, Oct. 20.
Injection means for prime movers, Liquid-fuel. T. A. Harris. 2,655,937, Oct. 20.
Inserting stoppers into bottles. T. A. Haynes. 2,656,086, Oct. 20.
Instrument, Dental. J. Diener. 2,655,726, Oct. 20.
Instrument, Directional indicating. J. C. Hewitt, Jr. 2,656,505, Oct. 20.
Instrument for lifting hairpins, Magnetic. A. Zachary. 2,656,211, Oct. 20.
Instrument, Survey. R. H. Firminhac. 2,656,476, Oct. 20.
Integrator for line-sectionalizers. J. M. Wallace and A. W. Edwards. 2,656,491, Oct. 20.
Interchangeable dual trailer coupling pin. W. E. Martin. 2,656,195, Oct. 20.
Interlocked control apparatus for combined dynamic, track, and shaft brake equipment. G. L. Cotter. 2,656,501, Oct. 20.
Iron: *See*—
Electric steam iron.
Iron oxide from ferrous solutions, Production of. C. C. Clarke. 2,656,282, Oct. 20.
Irrigation dam, Portable. W. D. Sell. 2,655,791, Oct. 20.
Isomerization and separation of xylenes. G. Holzman and G. M. Good. 2,656,397, Oct. 20.
Jar and the like holder, Fruit. M. C. Land and M. Kimbell. 2,655,824, Oct. 20.
Jar-handling equipment for capping machines. A. H. Filander. 2,656,084, Oct. 20.
Jaw keying means for chuck devices. L. Irrgang. 2,656,193, Oct. 20.
Jig. N. E. Cook. 2,655,821, Oct. 20.
Joint: *See*—
Fluid-tight joint.
Joint for folding rules. N. H. Proctor. 2,655,730, Oct. 20.
Joint structure, Adjustable. N. Swerdlow and H. L. Chamberlain. 2,656,201, Oct. 20.
Key, Container. J. Breeze. 2,656,065, Oct. 20.
Knitting and other textile machines. J. E. Lynam. 2,656,801, Oct. 20.
Knitting machine, Straight bar. K. W. Wickardt. 2,655,800, Oct. 20.
Knockdown shelving. P. C. Curtis. 2,656,045, Oct. 20.
Labeling apparatus. R. S. Kafka. 2,656,063, Oct. 20.
Ladder construction. W. Sharrock. 2,656,087, Oct. 20.
Laminated ring lead-in for electron discharge devices. E. J. Walsh. 2,656,404, Oct. 20.
Lamp: *See*—
Arc lamp.
Lamp having a slidable screen to expose one or the other of two different light sources. T. Phils. 2,656,452, Oct. 20.
Lantern and reflector holder having pivotally adjustable supporting arm. W. Yacyshyn. 2,656,454, Oct. 20.
Lapping machine. T. G. Lewis. 2,655,769, Oct. 20.
Lapping method and tool. T. G. Lewis. 2,655,775, Oct. 20.
Lasting machine. T. P. Courchene. 2,655,672, Oct. 20.
Lasting machine. J. Fossa. 2,655,671, Oct. 20.
Lasting machine. W. A. Shafer, Jr. 2,655,673, Oct. 20.
Latch: *See*—
Dead bolt latch.
Latch structure, Door. G. Janonis. 2,656,208, Oct. 20.
Latch with dead locking mechanism. F. J. Russell, R. W. Dietrich, and G. B. Solovieff. 2,656,207, Oct. 20.
Latching mechanism, Point detector. H. L. Bone. 2,656,457, Oct. 20.
Laundry-apparatus having heater, hollow agitator, and squeezer extractor. I. D. Richardson. 2,655,803, Oct. 20.
Lauryl pyridinium salts of chlorophenoxy-acetic acids. L. A. Brooks. 2,656,359, Oct. 20.
Laying sheet metallic flooring. W. G. Koch. 2,655,715, Oct. 20.
Lead wire feed mechanism for lamp stem fabricating apparatus. S. J. Gartner, S. E. Swasey, and D. J. Dwinell. 2,655,954, Oct. 20.
Light: *See*—
Hand signal light.
Lighter, Automatic. H. Faulkner. 2,656,492, Oct. 20.
Line finder dual-allotter system. F. Kessler. 2,656,416, Oct. 20.
Linoleum remover. J. Lovin. 2,655,976, Oct. 20.
Liquid-controlling system. C. H. Odell. 2,655,933, Oct. 20.
Lock: *See*—
Spring lock.
Lock and seal device, Combined. I. J. Fletcher. 2,655,805, Oct. 20.
Lock for thermostats. T. Stiler. 2,655,806, Oct. 20.
Lock for typewriter desks. C. W. Koch. 2,656,234, Oct. 20.
Loom: *See*—
Hand weaving loom.
Loom weighting for weaving. H. Richmond. 2,655,948, Oct. 20.
Loop pile fabric. E. F. Clark. 2,655,951, Oct. 20.
Lost motion measuring tool. C. G. Sibble. 2,655,731, Oct. 20.
Lubricating greases thickened with calcium silicate. G. W. Eckert. 2,656,315, Oct. 20.
Lubricating oils containing metal salts of a condensation product of a substituted phenol and a vinyl compound. L. L. Neff. 2,656,316, Oct. 20.
Lubricating oils containing metal salts of a condensation product of a substituted phenol and an allyl compound. L. L. Neff. 2,656,317, Oct. 20.
Lubricator structure, Railway journal box. J. J. Hennessy. 2,656,226, Oct. 20.
Machine for assembling rollers. O. P. Haegele. 2,655,718, Oct. 20.
Magazine for firearms, Box. C. E. Brush. 2,655,754, Oct. 20.
Magazine unloading device for bolt action firearms. J. F. Salas. 2,655,753, Oct. 20.
Magnesium alloys and making the same. H. E. Dunn and J. Strauss. 2,656,269, Oct. 20.
Magnetic core composition and producing the same. G. Berge. 2,656,319, Oct. 20.
Mailbox apparatus, Sliding. A. H. Kaschak. 2,656,138, Oct. 20.
Manufacture of dialkyl sulfides. W. A. Schulze and W. W. Crouch. 2,656,392, Oct. 20.
Master shipping container. C. D. Fallert and W. C. George. 2,656,089, Oct. 20.
Material feed device for gyratory crushers. A. J. Roubal. 2,656,120, Oct. 20.
Means to deposit water-borne sand. J. R. Daley. 2,655,790, Oct. 20.
Measuring circuit. J. H. Bollman. 2,656,506, Oct. 20.
Measuring device. H. M. Jones. 2,655,914, Oct. 20.
Measuring device, Electrical. A. J. Petzinger. 2,656,510, Oct. 20.
Measuring device, Electromagnetic. P. F. Elarde. 2,656,504, Oct. 20.
Measuring device, Power. T. R. Specht. 2,656,511, Oct. 20.
Mechanism for converting a uniform motion into a variable motion. M. F. Armelin. 2,655,817, Oct. 20.
Mechanism for freeing flaps and cutouts in carton blanks. R. W. Anness. 2,655,841, Oct. 20.
Metal forming. G. Cozzo. 2,655,823, Oct. 20.
Metallic rectifier construction. H. B. Conant. 2,656,493, Oct. 20.
Metallurgical process. V. S. de Marchi. 2,656,267, Oct. 20.
Meter: *See*—
Proximity meter.
Meter having preformed current windings, Watthour. B. E. Lenehan. 2,656,512, Oct. 20.
Method and composition for the control of undesired vegetation. W. R. Mullison. 2,656,265, Oct. 20.
Method and machine for manufacturing applicators. J. H. Bent. 2,656,219, Oct. 20.
Mine coupler. C. N. Rydin. 2,656,046, Oct. 20.
Mine support. J. Brand. 2,656,141, Oct. 20.
Mineral oil additive. J. H. Bartlett. 2,656,318, Oct. 20.
Mixed diaryl esters of ortho-phosphoric acid, Producing. H. R. Gamrath. 2,656,373, Oct. 20.
Mixer for gas burners. L. G. M. Le Renard. 2,655,992, Oct. 20.
Mixtures of orthophosphates. R. Ernst and G. D. Loeff. 2,656,372, Oct. 20.
Mobile apparatus for working on roadways or the like. H. B. Keogh. 2,655,678, Oct. 20.
Mold for framing lenses in a plastic mounting. H. G. Fay. 2,655,692, Oct. 20.
Moldable compounds for making jigs. R. D. Wasserman. 2,656,281, Oct. 20.
Molding cementitious bodies, Method and apparatus for. H. X. Eschenbrenner. 2,655,708, Oct. 20.
Molding core and reusable knockdown arbor therefor. H. V. Hites. 2,655,701, Oct. 20.
Molding machine, Loaf. M. A. Stickelber. 2,655,876, Oct. 20.
Motor: *See*—
Vibratory electrical motor.
Motor control system, Electronic. L. H. Dee. 2,656,500, Oct. 20.

Motor mount and seal for suction cleaners. R. E. Sheahan. 2,656,097, Oct. 20.
Mount for electron discharge devices. W. B. Brown. 2,655,479, Oct. 20.
Mounting: *See*—
Crossbar system switchboard unit mounting.
Muffler with resonator chambers, Retroverted passage type. B. B. Cary. 2,656,005, Oct. 20.
Multisection acoustic filter. H. F. Olson. 2,656,004, Oct. 20.
N-acyl derivatives of amide compounds, Preparing. H. J. Hagemeyer, Jr. 2,656,360, Oct. 20.
Needle threader, Machine attached. M. Ingwer. 2,655,886, Oct. 20.
Negative plates, Manufacture of. W. D. Carson and A. L. Hindall. 2,656,400, Oct. 20.
Nitrooletins, Preparation of. R. E. Benson. 2,656,395, Oct. 20.
Nonreflecting background for testing microwave equipment. L. K. Neher. 2,656,535, Oct. 20.
Nonspill powder container. M. C. Hamblet. 2,656,090, Oct. 20.
Nozzle and brush, Suction cleaner. R. B. McCarthy. 2,655,682, Oct. 20.
Nozzle, Spray. J. F. Campbell. 2,656,218, Oct. 20.
Nozzle with metering device, Dispensing hose. H. G. Soar. 2,656,068, Oct. 20.
Nursing nipple. E. J. Cronin. 2,655,920, Oct. 20.
Oar guard. P. Schaper. 2,655,669, Oct. 20.
Oil removal system for refrigeration apparatus. A. W. Ruff. 2,655,794, Oct. 20.
Oiler, Watch. W. T. Linder. 2,656,070, Oct. 20.
1-piperazyl-4-methylthioxanthones and preparing same. S. Kushner. 2,656,357, Oct. 20.
Operating jet engines with fuel reforming. D. E. Carr. 2,655,786, Oct. 20.
Operating soaking pits. F. C. McGough. 2,656,172, Oct. 20.
Orthopedic chair. W. J. Christensen. 2,655,982, Oct. 20.
Oscillator, Crystal. D. H. Campbell. 2,656,467, Oct. 20.
Oscillographic plotting system. R. W. Lockhart. 2,656,536, Oct. 20.
Overhead door. J. H. McKee and M. E. Hartzler. 2,655,683, Oct. 20.
Overload drive release. J. W. Bach. 2,656,185, Oct. 20.
Oxidation of a naphthyl dialkyl methine. G. G. Joris and W. D. Griffin. 2,656,394, Oct. 20.
Oxo-steriods and making same. K. Miescher, A. Wettstein, and J. Schmidlin. 2,656,365, Oct. 20.
Pad. M. and B. L. Doll. 2,656,291, Oct. 20.
Pallet gripping device. J. B. Thomas. 2,656,062, Oct. 20.
Parachute apparatus. E. A. Neff. 2,656,183, Oct. 20.
Paraffin cleaner. C. W. Earl and W. H. Middleton. 2,655,996, Oct. 20.
Paster and holddown means for labeling machines. F. Elsner. 2,655,896, Oct. 20.
Pen and pencil compass and divider, Locking. E. M., Oscar B., and Olivio B. Varona. 2,655,727, Oct. 20.
Pen or pencil clip. G. D. Gorman. 2,655,702, Oct. 20.
Penicillin compositions. W. Elias and H. J. Merrion. 2,656,299, Oct. 20.
Percussion mechanism. P. Van Russum and G. Schul. 2,655,911, Oct. 20.
Performance indicator arrangement for wave energy systems. C. London and R. H. Foy. 2,656,533, Oct. 20.
Permanent magnet brake. K. M. Feiertag. 2,656,026, Oct. 20.
Phosphoric acid-group IV metal oxide containing catalyst, Manufacture of. M. S. Bielawski and J. M. Mavity. 2,656,323, Oct. 20.
Photochemical production of benzene hexachloride. L. A. Miller, J. H. Dunn, and C. M. Neher. 2,656,313, Oct. 20.
Photoelectric cell having a light sensitive electron emissive cathode. R. J. Herbold. 2,656,477, Oct. 20.
Photoelectric iris, Automatically controlled. H. A. Gray, Jr. 2,655,848, Oct. 20.
Photographic developers containing diamino-propanol tetracetic acid. R. W. Henn and D. E. Piper. 2,656,273, Oct. 20.
Pick for tubular locks. H. G. Wilson. 2,655,808, Oct. 20.
Picker stick, Composite. R. A. Hagstrom. 2,655,949, Oct. 20.
Pickup bale loader. I. Z. Smoker. 2,656,030, Oct. 20.
Pigment paste. A. E. Van Wirt and G. F. Jones. 2,656,327, Oct. 20.
Pin: *See*—
Interchangeable dual trailer coupling pin.
Pin sweeping device. W. Blair. 2,656,187, Oct. 20.
Pipe nipple chuck. A. L. Fladung. 2,656,191, Oct. 20.
Pipe pushing device. A. L. Fladung. 2,656,148, Oct. 20.
Pipe slip gripping insert. J. D. Spalding. 2,655,706, Oct. 20.
Pipe wiper, Tandem type. J. C. Grant. 2,655,679, Oct. 20.
Pistol, Blowback autoloading. W. B. Ruger. 2,655,839, Oct. 20.
Piston and piston and rod combination. C. K. Stillwagon. 2,656,229, Oct. 20.
Piston packing ring. M. W. Marien. 2,656,228, Oct. 20.
Piston ring assembly and elements thereof. H. P. Phillips. 2,656,230, Oct. 20.
Planographic plates, Making. D. A. Newman. 2,655,864, Oct. 20.
Planter, Seed. D. M. Smith. 2,656,071, Oct. 20.
Plasticized vinyl halide composition and making same. G. S. Schaffel and G. H. Swart. 2,656,333, Oct. 20.
Plating rolled sheet metal. H. A. Toulmin, Jr. 2,656,284, Oct. 20.
Plating wire. A. O. Fink and A. E. Bishop. 2,656,283, Oct. 20.
Plow. H.-A. Bonnel. 2,655,850, Oct. 20.
Plow construction, Two-way. H. A. Pursche. 2,655,851, Oct. 20.
Plow, Tractor-mounted two-way. E. V. Bunting. 2,655,852, Oct. 20.
Plug: *See*—
Cigarette lighter filling plug.
Polymerizable compositions comprising acrylonitrile and a vinyl or isopropenyl amino aromatic compound and polymerization products thereof. J. J. Padbury. 2,656,339, Oct. 20.
Polymerization of unsaturated compounds with paladium oxide containing catalyst. A. N. De Vault. 2,656,398, Oct. 20.
Position control device. R. R. Crookston. 2,656,027, Oct. 20.
Positioning control for hydraulic motors. R. Tyler. 2,655,903, Oct. 20.
Powdered metal plates, Manufacturing. F. De Marinis. 2,655,716, Oct. 20.
Power actuated adjustable tire demounting bar. A. Lowrey. 2,655,984, Oct. 20.
Power transmission unit. A. T. Bodle. 2,655,818, Oct. 20.
Precision evaporation of antimony. R. L. Longini. 2,656,287, Oct. 20.
Preparation of a sodium bisulfite solution. K. R. Gray and H. L. Crosby. 2,656,249, Oct. 20.
Press: *See*—
Gap frame press.
Press loading and unloading apparatus. L. F. Samler. 2,656,047, Oct. 20.
Pressure selecting system and mechanism. W. V. Brown. 2,655,941, Oct. 20.
Pressure sensitive resistor. R. C. Du Bois. 2,656,444, Oct. 20.
Printing machine. F. E. Curtis. 2,656,103, Oct. 20.
Process and apparatus for use in preparing color sets for shaded tones printing. R. Smejda. 2,655,752, Oct. 20.
Process and composition for washing glass. D. E. Miller. 2,656,289, Oct. 20.
Producing streptomycin and vitamin B_{12}. R. B. McCormack, A. F. Langlykke, and D. Perlman. 2,656,300, Oct. 20.
Production, concentration and stabilization of fat-soluble valuable substances from carrots and the resulting product. F. Tiedt and E. Dewald. 2,656,274, Oct. 20.
Profile scraper, Adjustable. N. Einhorn. 2,655,721, Oct. 20.
Projector temperature indicating slide. R. D. La Coe, Jr. 2,655,810, Oct. 20.
Projector with automatic focus mechanism, Reflecting. J. T. Pennington. 2,655,834, Oct. 20.
Propeller, Variable-pitch. S. P. Baseri. 2,655,999, Oct. 20.
Propulsion mechanism. M. Gorski. 2,655,891, Oct. 20.
Prospecting. G. Herzog. 2,656,470–1, Oct. 20.
Protective device for the eyes. E. J. Lueders. 2,655,657, Oct. 20.
Protector: *See*—
Toe protector.
Proximity meter. J. E. Fielden. 2,656,307, Oct. 20.
Pulse producing system network. J. R. Perbix, Jr., and S. R. Ames. 2,656,514, Oct. 20.
Pump. D. Murphy. 2,655,869, Oct. 20.
Pump and compressor, Centrifugal. M. G. Schwarz. 2,656,096, Oct. 20.
Pump and motor transmission and gas pressure prime mover therefor, Hydraulic. C. H. Vlachos. 2,655,785, Oct. 20.
Pump for food materials, Reciprocating. R. A. Yohpe. 2,655,870, Oct. 20.
Pump impeller, Bladeless. F. I. Lindau and R. C. Glazebrook. 2,655,868, Oct. 20.
Purification of cyclonite. W. E. Bachmann. 2,656,355, Oct. 20.
Quaternary salt dyes derived from 2-tertiaryamino-5(4)-thiazolones. E. B. Knott and L. A. Williams. 2,656,352, Oct. 20.
Rack: *See*—
Film hanger rack.
Radar system. E. E. Crump. 2,656,532, Oct. 20.
Radar system, Beacon. F. E. Grant and L. Katz. 2,656,530, Oct. 20.
Radiant gas burner. W. Kennedy. 2,655,991, Oct. 20.
Radiator. A. L. Garratt. 2,656,155, Oct. 20.
Radiator, Baseboard. C. M. Wilcox. 2,656,156, Oct. 20.
Radio-frequency energy transfer switch. L. E. Bollinger. 2,656,443, Oct. 20.
Rail and tie fastening assembly. H. W. Protzeller. 2,656,116, Oct. 20.
Rail car fissure detecting apparatus. C. W. and R. W. McKee. 2,656,503, Oct. 20.
Railway car springs. L. E. Endsley. 2,656,180, Oct. 20.
Railway motor vehicle. N. J. McDonald. 2,655,873, Oct. 20.
Range finder adjusting mechanism. J. Mihalyi and H. A. Bing. 2,655,832, Oct. 20.

Reaction products of hydrogen sulfide and salts of aci-nitro-hydrocarbons. C. S. Coe and T. F. Doumani. 2,656,393, Oct. 20.
Reading device, Sight. A. E. Shapiro and M. Metsky. 2,655,738, Oct. 20.
Recorder head. R. A. Isberg. 2,656,420, Oct. 20.
Recorder-reproducer, Magnetic tape. E. N. Dingley, Jr. 2,656,419, Oct. 20.
Recording and display device. S. F. Goodrich. 2,655,740, Oct. 20.
Recording apparatus for the reception of message characters. R. Hell. 2,656,240, Oct. 20.
Recovering calcium from a mixture of calcium hydride and magnesium oxide. P. P. Alexander. 2,656,268, Oct. 20.
Recovering chemicals from smelts obtained in pulping operation. K. R. Gray and H. L. Crosby. 2,656,244, Oct. 20.
Reducing the acidity of nitric acid-calcium nitrate compositions containing phosphate ions. R. B. Calmeyer. 2,656,266, Oct. 20.
Refining blender. H. J. Shelton, Jr., and L. D. Smiley. 2,656,119, Oct. 20.
Refining hydrocarbon resins. R. J. Lee and P. D. May. 2,656,303, Oct. 20.
Reflection plotting device. C. W. Sherwin. 2,655,836, Oct. 20.
Refractory brick, Unburned. R. P. Heuer. 2,656,279, Oct. 20.
Refrigerator condensing unit cooler. J. Dyer. 2,655,795, Oct. 20.
Register apparatus for producing manifolded business records. W. D. Winders. 2,656,198–9, Oct. 20.
Register having a check wheel connected for operation thereby. C. A. S. Hamelink. 2,656,108, Oct. 20.
Registering noncylindrical punches and dies, Means for. L. V. Whistler. 2,655,995, Oct. 20.
Regulator: *See*—
  Voltage regulator.
Remote-control system. H. R. Putz. 2,656,472, Oct. 20.
Removal of nitrogen from natural gas. G. Thodos. 2,656,010, Oct. 20.
Resin and its manufacture. H. S. Bloch. 2,656,335, Oct. 20.
Resurfacing machine, Bowling alley. G. Parovel. 2,655,770, Oct. 20.
Return mechanism. A. C. Hughes, Jr. 2,656,178, Oct. 20.
Ring: *See*—
  Compensating metallic Piston packing ring.
  thrust ring.
Road working apparatus. G. E. Ross. 2,655,743, Oct. 20.
Rock-grooving tool. R. N. Stich. 2,656,169, Oct. 20.
Roller construction. L. V. Robinson. 2,655,684, Oct. 20.
Roof structure. M. Clements. 2,655,878, Oct. 20.
Roof structure for load-carrying vehicles, Adjustable. L. Bobroff. 2,656,216, Oct. 20.
Rotary drilling bit. T. A. White. 2,656,153, Oct. 20.
Rotary, turbine type hydraulic coupling. A. MacKenzie, Jr. 2,655,789, Oct. 20.
Rubber stamps, Making. R. P. Adams. 2,655,693, Oct. 20.
Rubbery compounds suitable for production of tire treads, Making. T. A. Te Grotenhuis. 2,656,324, Oct. 20.
Safety interlock switch. D. Satinoff. 2,656,425, Oct. 20.
Salt dispenser. M. D. Vivolo. 2,656,074, Oct. 20.
Saw, Angular and cross cutting power. J. S. Dziengiel, Jr. 2,655,955, Oct. 20.
Saw chain. D. E. Gommel. 2,655,958, Oct. 20.
Saw guide with board clamp thereon, Angularly adjustable. F. A. Taylor. 2,655,956, Oct. 20.
Scaffold clamping device. P. Gray. 2,656,224, Oct. 20.
Scale, Proportioning. M. A. Weckerly. 2,656,142, Oct. 20.
Scaling device, Fish. W. R. Witte. 2,655,689, Oct. 20.
Scalpel. W. E. Steele. 2,655,723, Oct. 20.
Screw taper drill attachment. J. A. Labbeé, Jr. 2,655,964, Oct. 20.
Sealed bearing cleaning and lubricating head. J. H. Thorpe. 2,656,012, Oct. 20.
Sealing joint for garments, Detachable hermetic. E. J. Hoagland. 2,655,663, Oct. 20.
Secondary alkylsulfonamido benzoic acids. J. M. Sprague. 2,656,381, Oct. 20.
Selective reduction of fatty acids. W. S. Baldwin and D. E. Floyd. 2,656,371, Oct. 20.
Semiconductor translating device. M. Sparks. 2,656,496, Oct. 20.
Sensitizing dyes containing a 2-thio-2,5(3,4)-thiazoledione nucleus. R. A. Jeffreys and E. B. Knott. 2,656,353, Oct. 20.
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Separation of chlorine by absorption. W. Frey. 2,656,011, Oct. 20.
Separation of isophthalic and terephthalic diesters. M. A. Pino. 2,656,377, Oct. 20.
Separator: *See*—
  Video-from-sync and sync-from-sync separator.
Series capacitor protective device and system. A. Van Ryan. 2,656,490, Oct. 20.
Series of nitrofuran compounds comprising substituted 5-nitro-2-furaldehyde semicarbazones. W. C. Ward and G. Gever. 2,656,350, Oct. 20.
17-keto steroids, Manufacture of. E. B. Hershberg and E. P. Oliveto. 2,656,364, Oct. 20.
Sewing machine. W. Kostro. 2,655,885, Oct. 20.
Shaft positioning system. H. M. Schweighofer and G. E. Nicholson. 2,656,497, Oct. 20.
Shaker with novel closing cap, Condiment. J. F. Von Essen. 2,656,076, Oct. 20.
Shaking device, especially internal shaker for compacting loose masses. W. Degen. 2,656,161, Oct. 20.
Shampooing and setting hair. N. B. Gallenkamp. 2,655,923, Oct. 20.
Sheave. E. N. Howell. 2,655,813, Oct. 20.
Sheet rubber having a nonsticking liner and making same. J. R. Hoover. 2,656,292, Oct. 20.
Shingle, Roofing. P. MacDonald. 2,655,880, Oct. 20.
Shingling strip, Roof. H. A. Lee. 2,655,879, Oct. 20.
Shipping case unloading apparatus. P. E. Fischer and E. Ardell. 2,656,060, Oct. 20.
Shotgun shell loading. J. E. Veum. 2,655,831, Oct. 20.
Shrinkproofing of fabrics. C. G. Hatay. 2,655,711, Oct. 20.
Shutoff device for oil and gas wells, Safety. L. C. Clair. 2,655,934, Oct. 20.
Shutter for dual projection apparatus, Dissolve type. A. E. Krows. 2,655,833, Oct. 20.
Sign: *See*—
  Curb type reflectorized street sign.
Sign structure. T. J. La Fontaine. 2,655,749, Oct. 20.
Signal deviation warning system. J. E. Tillman. 2,656,527, Oct. 20.
Signaling device, Deceleration. S. E. Manecke. 2,655,892, Oct. 20.
Signaling system, Subscriber. R. O. Gray and E. M. Roschke. 2,656,408, Oct. 20.
Signaling system, Subscriber. R. H. Herrick and E. M. Roschke. 2,656,407, Oct. 20.
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6-phenoxymethylpteridines. D. I. Weisblat and B. J. Magerlein. 2,656,356, Oct. 20.
Skate holder. W. E. Fleming. 2,655,774, Oct. 20.
Skirt hanger. J. Ambrosino. 2,656,078, Oct. 20.
Sleeper of reinforced concrete with rail fastening bolts, Railway. R. Sonneville. 2,656,115, Oct. 20.
Smokeless powder, Manufacture of. W. E. Piper. 2,655,694, Oct. 20.
Sodium salts of carbonic acid by ion exchange, Preparation of. K. R. Gray and H. L. Crosby. 2,656,245, Oct. 20.
Solenoid hydraulic control valve. V. A. Tauscher, W. D. Mullins, Jr., K. R. Jackson, and W. D. Lyon. 2,655,939, Oct. 20.
Sorting machine. F. C. Gleason. 2,656,054, Oct. 20.
Spectacle frame. V. Salierno. 2,655,835, Oct. 20.
Splint. M. J. Timmins. 2,655,916, Oct. 20.
Split clearing mechanism. F. A. Niemann. 2,656,110, Oct. 20.
Spray gun, Low-pressure. A. Roche. 2,656,217, Oct. 20.
Spring bushed chain. E. F. Riopel'e. 2,655,816, Oct. 20.
Spring clamp. F. D. Ammen. 2,655,927, Oct. 20.
Spring group. J. E. Flesch. 2,656,179, Oct. 20.
Spring lock. H. M. Piker. 2,656,206, Oct. 20.
Spring washer. C. S. Smith. 2,656,493, Oct. 20.
Square assembly holder. S. Panske. 2,655,729, Oct. 20.
Stabilization of phenol alkylates. D. R. Stevens and S. C. Camp. 2,656,311–12, Oct. 20.
Stabilized azine photographic developers containing sodium metaborate as the sole alkali. R. C. Gunther. 2,656,272, Oct. 20.
Stabilized hydrocarbon fuel oils. H. G. Smith, T. L. Cantrell, and J. G. Peters. 2,656,259, Oct. 20.
Stabilized hydrocarbon fuel oils. H. G. Smith and T. L. Cantrell. 2,656,260, Oct. 20.
Stabilized television circuit. A. F. Giordano. 2,656,486, Oct. 20.
Stabilizing acrylonitrile. J. F. Martino. 2,656,376, Oct. 20.
Stabilizing alkali metal and alkaline earth metal aluminum hydrides. R. W. Bragdon. 2,656,243, Oct. 20.
Stabilizing chrome ores of the transvaal type for refractory brick. R. P. Heuer. 2,656,280, Oct. 20.
Stabilizing tab. B. O. Howard. 2,656,132, Oct. 20.
Stable delay circuit. F. F. Slack. 2,656,462, Oct. 20.
Stairway, Moving. W. F. Masek. 2,656,031, Oct. 20.
Station selector and recording system for radio service. L. E. Phillipps. 2,656,522, Oct. 20.
Steam and temperature control for steam irons, Unitary. D. L. McFarland and W. E. Moore. 2,655,746, Oct. 20.
Steam purifier. G. A. Rehm. 2,655,905, Oct. 20.
Stencil clamping device for duplicating machines. J. W. Linsley, Jr. 2,655,866, Oct. 20.
Step'adder having safety supporting bar. A. L. White. 2,656,088, Oct. 20.
Steroids and preparing the same. R. P. Graber and N. L. Wendler. 2,656,367, Oct. 20.
Steroids having a 17-positioned semicyclic double bond. K. R. Miescher, A. Wettstein, and J. Schmidlin. 2,656,348, Oct. 20.
Stirrup for riding saddles, Adjustable. H. J. Elle. 2,655,778, Oct. 20.

Strap, Expansible. H. O. Ramos. 2,655,664, Oct. 20.
Strap seal, Snap. E. A. Conaway, Sr. 2,656,209, Oct. 20.
Streptomycin broth clarification with sequestering agents. J. J. Goett and S. W. Ensminger. 2,656,347, Oct. 20.
Suction cleaner. M. A. Kent. 2,656,009, Oct. 20.
Support: *See*—
  Combined foot and bed-cover support.
  Crown tooth support.
  Mine support.
Support for computing machines and the like. J. L. Hutton. 2,656,098, Oct. 20.
Surface treatment for improving weathering resistance of cellulose acetate-butyrate plastics. J. W. Tamblyn and R. M. Schulken. 2,656,288, Oct. 20.
Suspensions of polymeric chlorotrifluoroethylene. M. M. Sprung. 2,656,330–2, Oct. 20.
Switch: *See*—
  Differential pressure switch.
  Electric switch.
  Fluid pressure operated switch.
  Inertia switch.
  Radio-frequency energy transfer switch.
  Safety interlock switch.
  Thermostatic switch.
Switch apparatus, Arc extinguishing electrical. L. H. Matthias and H. Petersen. 2,656,442, Oct. 20.
Switch deactivator, Automobile door. T. J. Fiorucci. 2,656,427, Oct. 20.
Switch for use in turn-indicating signaling systems. H. G. Dibelka. 2,656,426, Oct. 20.
Synchronizing system. P. E. Reeves. 2,656,465, Oct. 20.
Synthetic fiber preparation. G. E. Ham. 2,656,329, Oct. 20.
Syringe and cartridge therefor, Hypodermic. C. B. Goodstein and M. B. Mittleman. 2,655,919, Oct. 20.
System for controlling flow of circulating liquid. J. E. Woods. 2,656,114, Oct. 20.
System for indicating time-space lag and lead. H. C. Savino. 2,656,528, Oct. 20.
System for proportioning fluid flow to control signal magnitude. H. Zieboiz. 2,655,902, Oct. 20.
Tab strip fin for heat exchanger cores. R. L. Lyerly and S. Holm. 2,656,160, Oct. 20.
Table: *See*—
  Folding table.
Tag strap, Luggage. M. L. Duskin. 2,655,747, Oct. 20.
Take-up steady rest, Automatic. L. L. Hazen. 2,655,828, Oct. 20.
Tank: *See*—
  Floating storage tank.
Telemetering device, Compressional wave. J. M. Johnston, J. B. Olsen, and J. A. Moulden. 2,656,458, Oct. 20.
Telemetering system. W. G. Hodson and W. E. Peterson. 2,656,523, Oct. 20.
Telephone dialer, Automatic. J. Kilburg. 2,656,417, Oct. 20.
Telescopic chalk line device. R. W. Cook. 2,655,728, Oct. 20.
Television receiver. L. C. Faudell. 2,656,413, Oct. 20.
Television system, Air key subscriber. E. M. Roschke and R. O. Gray. 2,656,405, Oct. 20.
Teller system, Retractable sidewalk. C. D. Ellithorpe. 2,656,013, Oct. 20.
Television system, Subscriber. R. O. Gray and E. M. Roschke. 2,656,406, Oct. 20.
Television type facsimile transmission system. J. H. Hammond, Jr. 2,656,412, Oct. 20.
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Tension control device for textile thread. C. B. Kingsbury and R. H. Carter. 2,656,126, Oct. 20.
Terry weave fabric. G. L. Mills. 2,655,950, Oct. 20.
Testing a metallic sample. M. L. Yeater. 2,656,236, Oct. 20.
Testing apparatus for clutch plates. R. L. Edens. 2,655,809, Oct. 20.
Therapeutic apparatus. H. R. Brand. 2,655,915, Oct. 20.
Therapeutic product. L. Loewe. 2,656,298, Oct. 20.
Thermostatic switch. A. D. Slatkin. 2,656,441, Oct. 20.
Thermostatic valve. H. B. Drapeau. 2,656,113, Oct. 20.
Thermostatically controlled milk cooler. W. Hurley. 2,656,154, Oct. 20.
Thienyl vat dye compounds and vat dye intermediates and their preparation. J. M. Straley and R. C. Harris. 2,656,361, Oct. 20.
Thread breaking means for sewing machines. N. Knaus and A. G. Millington. 2,655,887, Oct. 20.
Threader, Needle. A. Pretorius. 2,656,080, Oct. 20.
3,3-disubstituted-6-dimethy'amino-2-hexanones, Preparing. E. M. Schultz. 2,656,388, Oct. 20.
3,20 - diketo - 11,17 - dihydroxy - 21 - acyloxypregnane compounds. R. P. Graber and N. L. Wendler. 2,656,369, Oct. 20.
Throttle control, Automatic. L. F. Sobie. 2,656,024. Oct. 20.
Ticket control apparatus. R. Hofer. 2,655,863, Oct. 20.
Tie clasp with interchangeable slides. N. R. Baroody, Jr. 2,655,751, Oct. 20.
Tile-counting device. L. D. Bishop. 2,656,053. Oct. 20.
Timber setting machine. L. G. Felderman and A. S. Knoizen. 2,656,057, Oct. 20.
Time delay relay. T. B. Jochem. 2,656,434, Oct. 20.
Time-modulated two-stage hydraulic valve. K. R. Jackson. 2,655,940, Oct. 20.
Timer apparatus for parking meters. G. A. Hale. 2,655,797, Oct. 20.
Timing apparatus, Electrical. L. F. Elliott. 2,656,461, Oct. 20.
Timing apparatus for washing machines, Automatic. P. G. Frerer and C. S. Smith. 2,656,424, Oct. 20.
Tire adapter. O. C. Blomgren. 2,656,083, Oct. 20.
Tire chain fastener. R. N. Doney. 2,655,972, Oct. 20.
Tire mounting apparatus, Circumferentially traveling support-mounted. R. D. Henderson. 2,655,985, Oct. 20.
Tire pressure device. C. C. Pierce. 2,656,094, Oct. 20.
Toe protector. I. Kiwad. 2,655,917, Oct. 20.
Tong extracting and resetting mechanism, Automatic. E. E. Eckstein. 2,656,212, Oct. 20.
Tool: *See*—
  Brake anchor tool.
  Butt-gauging tool.
  Cam closing hand tool.
  Electric resistance welding tool.
  Hand tool.
  Lost motion measuring tool.
  Rock-grooving tool.
  Wire connecting tool.
Tool and operating circuit therefor, Machine. R. I. Eyler. 2,655,670, Oct. 20.
Tool for external cylindrical surfaces, Honing. J. E. Kline. 2,655,771, Oct. 20.
Tool for girdling trees, Forestry. A. F. Grissett. 2,655,763, Oct. 20.
Tool for operating bone sets, bone chisels, and bone nail drivers, Vibratory. E. J. Haboush. 2,655,921, Oct. 20.
Tooth arrangement for screw type comminuting devices. C. Börner. 2,656,122, Oct. 20.
Toothbrush cover. V. P. Simmons. 2,655,968, Oct. 20.
Toothbrush with lip guard, Multiple rotary. D. P. Grover. 2,655,674, Oct. 20.
Toothbrush with lip guard, Power-driven. D. P. Grover. 2,655,675, Oct. 20.
Toothbrush with lip guard, Rotary. D. P. Grover. 2,655,676, Oct. 20.
Towel and similar article hanger. C. H. Wold. 2,656,043, Oct. 20.
Tower jacking structure drive. E. A. Campbell. 2,656,149, Oct. 20.
Toy cap pistol and cartridge. T. W. Nichols. 2,655,755, Oct. 20.
Traction wheel drive for automobiles. F. W. Wolf. 2,656,001, Oct. 20.
Tractor. A. Mazzola. 2,655,871, Oct. 20.
Tractor-mounted implement. F. C. Warne. 2,655,854, Oct. 20.
Traffic controlling apparatus, Railway. H. A. Wallace. 2,656,456, Oct. 20.
Trailer, Camp. H. Anderson. 2,656,213, Oct. 20.
Transformer, Wave guide impedance. W. W. Hansen. 2,656,515, Oct. 20.
Transmission mechanism, Power. J. A. Baines. 2,655,820, Oct. 20.
Transmission mechanism, Variable. C. A. Posson. 2,655,819, Oct. 20.
Transmitter, Motion. C. E. Roessler, Jr. 2,656,520, Oct. 20.
Trap: *See*—
  Animal trap.
Tray, Enclosed cake. B. E. White, J. A. Cushman, Jr., and A. A. Dukert. 2,656,041, Oct. 20.
Treating a marine product. C. B. Stevenson. 2,656,275, Oct. 20.
Tree felling appartaus, including a prime mover-dynamo power plant. M. F. Murray. 2,655,960, Oct. 20.
Tree trimmer powered by a motor towed by the operator, Flexible shaft driven. S. P. Lagant. 2,655,957, Oct. 20.
Tricycle, Multiple steering head. B. F. Leber. 2,656,197, Oct. 20.
Trinuclear dyes containing a 5-thiazolidone nucleus. P. Aubert, R. A. Jeffreys, and E. B. Knott. 2,656,351, Oct. 20.
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Truck for drill and mining machines. S. C. Moon. 2,656,152, Oct. 20.
Truck loading and unloading mechanism. A. Foote. 2,656,058, Oct. 20.
Tube control device, Memory. C. H. Page. 2,656,485, Oct. 20.
Tumbling mill feed mechanism. J. J. Fischer and L. J. Morgan. 2,656,162, Oct. 20.
Tunable cavity. B. B. Cork. 2,656,484, Oct. 20.
Tune-up system for radar. H. L. Jackson. 2,656,534, Oct. 20.
Tuning indicator for frequency shift telegraph systems. R. Terleckl. 2,656,415, Oct. 20.
Turbine blade construction. F. P. Sollinger. 2,656,146, Oct. 20.
Turnover mechanism. P. H. Jenkins. 2,656,051, Oct. 20.
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Typographical distributing mechanism. W. B. Abbott and P. Hilpman. 2,656,038, Oct. 20.
Underfilling material for tooth-fillings. A. Knappwost. 2,656,277, Oct. 20.
Unloading and relief valve. J. M. and F. H. Towler. 2,655,930, Oct. 20.

Valve: *See*—
Drain valve.
Flexible gate valve.
Fluid pressure control valve.
Solenoid hydraulic control valve.
Thermostatic valve.
Time-modulated two-stage hydraulic valve.
Unloading and relief valve.

Valve assembly. A. Wexler and G. T. Cunningham. 2,655,936, Oct. 20.
Valve assembly, Pressure relief. R. B. Kinsbach. 2,655,935, Oct. 20.
Valve for busses, Auxiliary control. H. T. Seale. 2,656,016, Oct. 20.
Valve for drill strings, Removable drop-in type back-pressure. H. T. Miller. 2,656,151, Oct. 20.
Valve for leak patching device for pipe lines. M. P. Morris. 2,655,946, Oct. 20.
Valve for tractor trailer brake systems, Relay. C. B. Fites. 2,656,014, Oct. 20.
Valve with sequential rotating and tilting opening and closing movements, Butterfly. R. H. Dougherty. 2,655,942, Oct. 20.
Variable speed governing mechanism with modifier. M. Frenkel. 2,656,173, Oct. 20.
Vault, Burial. J. A. Rench. 2,655,714, Oct. 20.

Vehicle: *See*—
Railway motor vehicle.

Vehicle speed control system. J. C. Keeton and E. B. Cones. 2,656,002, Oct. 20.
Vehicle spring rearching means. A. R. Hellwig. 2,656,181, Oct. 20.
Vehicle structure. H. W. Templeton. 2,655,872, Oct. 20.
Vehicle wheel. A. E. Frandi. 2,656,221, Oct. 20.
Vehicle with demountable wheel trucks, Trailer. J. P. Fellabaum. 2,656,196, Oct. 20.
Vending apparatus, Disk-shaped phonograph. F. Se Bastian. 2,656,235, Oct. 20.
Vending machine. L. S. Spero and G. Adamec. 2,656,029, Oct. 20.
Vibratory electrical motor. R. H. Rohden. 2,656,474, Oct. 20.
Video-from-sync and sync-from-sync separator. E. M. Roschke and W. S. Druz. 2,656,414, Oct. 20.
Vise, Hackle. J. F. Goldsby. 2,655,826, Oct. 20.
Voltage regulator. H. Friedman. 2,656,478, Oct. 20.
Voltage supply control circuit. W. O. Fullerton. 2,656,487, Oct. 20.
Waffle iron and improved expansion hinge therefor. H. H. Miller. 2,655,687, Oct. 20.

Washer: *See*—
Spring washer.

Washing and drying machine, Centrifugal. P. E. Geldhof and L. Ringer. 2,656,042, Oct. 20.
Washing apparatus. W. A. Wasemann. 2,656,236, Oct. 20.
Washing machine. K. Clark. 2,655,804, Oct. 20.
Water-soluble esters of cortisone and related compounds. H. Minion. 2,656,366, Oct. 20.
Wave guide attenuator. W. E. Good. 2,656,518, Oct. 20.
Wave guide transducer. A. P. King. 2,656,513, Oct. 20.
Weatherstrip construction. J. Chalik and P. G. Torosian. 2,655,698, Oct. 20.
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Weighing machine. A. Wirth. 2,656,176, Oct. 20.
Welding machine and control and actuating mechanism. E. J. Svenson. 2, 656,445, Oct. 20.

Wheel: *See*—
Vehicle wheel.

Wheel having cushioned tread. J. S. Coldwell. 2,656,220 Oct. 20.
Winding and setting mechanism for wtach or clock movements. G. Ducommun. 2,655,784, Oct. 20.
Winding machine, Coil. C. C. Stevens. 2,656,124, Oct. 20.
Winding patient lift and turning mechanism. F. Burkert. 2,655,667, Oct. 20.
Wiper mechanism, Heated. D. M. Lentz. 2,656,448, Oct. 20.
Wire connecting tool. H. A. Miloche. 2,655,953, Oct. 20.
Wire frame for garment hangers. D. W. Doherty. 2,656,044, Oct. 20.
Wire nut. J. H. Blomstrand. 2,656,204, Oct. 20.
Wire-stitching machine, Rotary. A. H. Maynard. 2,655,654, Oct. 20.
Workholder for drill presses. T. M. Klavon. 2,655,822, Oct. 20.
Workholding attachment for lathes. S. Fiorino. 2,655,829, Oct. 20.
Wringer apparatus, Mop. A. Swanson. 2,655,681, Oct. 20.
Yarn tensioning device. J. R. O'Dell. 2,656,125, Oct. 20.
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CLASSIFICATION OF PATENTS

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NOTE.—First number = class, second number = subclass, third number = patent number.

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2— 8: 2,655,656
12: 2,655,657
37: 2,655,658
52: 2,655,659
83: 2,655,660
140: 2,655,661
163: 2,655,662
270: 2,655,663
338: 2,655,664
4— 41: 2,655,665
242: 2,655,666
5— 61: 2,655,667
319: 2,655,668
8—116.2: 2,656,241
9— 24: 2,655,669
10— 107: 2,655,670
12— 1: 2,655,671
8.1: 2,655,672
12.2: 2,655,673
15— 23: 2,655,674
2,655,675
2,655,676
41: 2,655,677
87: 2,655,678
210: 2,655,679
228: 2,655,680
262: 2,655,681
373: 2,655,682
16— 104: 2,655,683
107: 2,655,684
158: 2,655,685
161: 2,655,686
164: 2,655,687
17— 2: 2,655,688
5: 2,655,689
18— 6: 2,655,690
2,655,691
36: 2,655,692
47.5: 2,655,693
2,655,694
19— 55: 2,655,695
116: 2,655,696
20— 57.5: 2,655,697
69: 2,655,698
22— 70: 2,655,699
94: 2,655,700
172: 2,655,701
23— 1: 2,656,242
14: 2,656,243
48: 2,656,244
64: 2,656,245
78: 2,656,246
119: 2,656,247
2,656,248
130: 2,656,249
143: 2,656,250
151: 2,656,251
190: 2,656,252
2,656,253
209.4: 2,656,254
214: 2,656,255
230: 2,656,256
259.5: 2,656,257
288: 2,656,258
24— 11: 2,655,702
16: 2,655,703
205.11: 2,655,704
259: 2,655,705
263: 2,655,706
265: 2,655,707
25— 41: 2,655,708
105: 2,655,709
154: 2,655,710
26— 18.5: 2,655,711
27— 2: 2,655,712
27: 2,655,713
35: 2,655,714
29—148.2: 2,655,715
152: 2,655,716
155.56: 2,655,717
201: 2,655,718
222: 2,655,719
229: 2,655,720
30— 171: 2,655,721
252: 2,655,722
330: 2,655,723
32— 13: 2,655,724
29: 2,655,725
46: 2,655,726
33— 27: 2,655,727
87: 2,655,728
90: 2,655,729
120: 2,655,730
169: 2,655,731
197: 2,655,732
207: 2,655,733
34— 54: 2,655,734
133: 2,655,735
35— 8: 2,655,736
33: 2,655,737
35: 2,655,738
39: 2,655,739
64: 2,655,740
129: 2,655,741
144: 2,655,742
156: 2,655,743
38— 13: 2,655,744
77: 2,655,745
2,655,746
40— 21: 2,655,747
125: 2,655,748
2,655,749
136: 2,655,750
41— 10: 2,655,751
19: 2,655,752
42— 50: 2,655,753
2,655,754
58: 2,655,755
43— 20: 2,655,756
26.2: 2,655,757
27.4: 2,655,758
60: 2,655,759
73: 2,656,259
44— 75: 2,656,260
45— .5: 2,655,760
46— 29: 2,655,761
116: 2,655,762
47— 1: 2,655,763
2: 2,655,764
48— 22: 2,656,261
176: 2,656,262
178: 2,656,263
197: 2,656,264
49— 17: 2,655,765
22: 2,655,766
48: 2,655,767
51— 55: 2,655,768
119: 2,655,769
174: 2,655,770
184.1: 2,655,771
204: 2,655,772
215: 2,655,773
228: 2,655,774
281: 2,655,775
53— 3: 2,655,776
26: 2,655,777
54— 44: 2,655,778
56— 9: 2,655,779
33: 2,655,780
57— 77.3: 2,655,781
105: 2,655,782
58— 50: 2,655,783
69: 2,655,784
60— 19: 2,655,785
35.4: 2,655,786
39.23: 2,655,787
39.33: 2,655,788
54: 2,655,789
61— 3: 2,655,790
29: 2,655,791
62— 1: 2,655,792
3: 2,655,793
2,655,794
4: 2,655,795
123: 2,655,796
64— 4: 2,655,797
14: 2,655,798
65— 60: 2,655,799
66— 127: 2,655,800
149: 2,655,801
68— 5: 2,655,802
15: 2,655,803
68— 23: 2,655,804
70— 50: 2,655,805
57: 2,655,806
303: 2,655,807
394: 2,655,808
71— 2.3: 2,656,265
43: 2,656,266
73— 161: 2,655,809
343: 2,655,810
74—10.54: 2,655,811
199: 2,655,812
230.5: 2,655,813
240: 2,655,814
242.11: 2,655,815
251: 2,655,816
394: 2,655,817
421: 2,655,818
679: 2,655,819
785: 2,655,820
75— 28: 2,656,267
135: 2,656,268
2,656,269
139: 2,656,270
77— 62: 2,655,821
63: 2,655,822
80— 56: 2,655,823
81— 3.43: 2,655,824
15: 2,655,825
17: 2,655,826
53: 2,655,827
82— 38: 2,655,828
40: 2,655,829
84— 377: 2,655,830
382: Re.23,725
86— 31: 2,655,831
88— 1: 2,655,832
19.3: 2,655,833
24: 2,655,834
47: 2,655,835
74: 2,655,836
89— 33: 2,655,837
41: 2,655,838
196: 2,655,839
92— 26: 2,655,840
93— 36: 2,655,841
2,655,842
51: 2,655,843
58.3: 2,655,844
94— 8: 2,655,845
2,655,846
95— 31: 2,655,847
64: 2,655,848
88: 2,656,271
2,656,272
2,656,273
100: 2,655,849
97— 26: 2,655,850
2,655,851
29: 2,655,852
46.07: 2,655,853
2,655,854
46.35: Re.23,726
47.44: 2,655,855
98— 2: 2,655,856
40: 2,655,857
99— 11: 2,656,274
111: 2,656,275
200: 2,656,276
275: 2,655,858
281: 2,655,859
329: 2,655,860
100— 19: 2,655,861
288: 2,655,862
101— 69: 2,655,863
149.2: 2,655,864
407: 2,655,865
415.1: 2,655,866
102— 70.2: 2,655,867
103— 103: 2,655,868
105: 2,655,869
153: 2,655,870
105— 36: 2,655,871
215: 2,655,872
2,655,873
369: 2,655,874
106— 35: 2,656,277
57: 2,656,278
106— 58: 2,656,279
59: 2,656,280
84: 2,656,281
304: 2,656,282
107— 12: 2,655,875
2,655,876
47: 2,655,877
108— 1: 2,655,878
7: 2,655,879
2,655,880
16: 2,655,881
109— 79: 2,655,882
110— 8: 2,655,883
112— 2: 2,655,884
7: 2,655,885
225: 2,655,886
253: 2,655,887
114— .5: 2,655,888
202: 2,655,889
115— 20: 2,655,890
35: 2,655,891
116— 74: 2,655,892
114: 2,655,893
117: 2,655,894
117— 50: 2,656,283
2,656,284
51: 2,656,285
60: 2,656,286
107: 2,656,287
144: 2,656,288
118— 57: 2,655,895
230: 2,655,896
308: 2,655,897
506: 2,655,898
119— 15.5: 2,655,899
126: 2,655,900
121— 18: 2,655,901
38: 2,655,902
41: 2,655,903
46.5: 2,655,904
122— 450: 2,655,905
123— 32: 2,655,906
140: 2,655,907
124— 7: 2,655,908
125— 1: 2,655,909
11: 2,655,910
33: 2,655,911
126— 39: 2,655,912
2,655,913
128— 2.07: 2,655,914
33: 2,655,915
87: 2,655,916
153: 2,655,917
173: 2,655,918
218: 2,655,919
252: 2,655,920
305: 2,655,921
409: 2,655,922
129— 16: 2,656,091
132— 7: 2,655,923
9: 2,655,924
18: 2,655,925
33: 2,655,926
46: 2,655,927
134— 42: 2,656,280
112: 2,655,928
131: 2,655,929
136— 33: 2,656,399
2,656,400
90: 2,656,401
126: 2,656,402
137— 108: 2,655,930
206: 2,655,931
344: 2,655,932
392: 2,655,933
498: 2,655,934
538: 2,655,935
540: 2,655,936
593: 2,655,937
609: 2,655,938
623: 2,655,939
2,655,940
627: 2,655,941
746: 2,655,942
778: 2,655,943
138— 38: 2,655,944
46: 2,655,945
138— 99: 2,655,946
139— 30: 2,655,947
100: 2,655,948
157: 2,655,949
396: 2,655,950
403: 2,655,951
140— 71.6: 2,655,952
121: 2,655,953
132: 2,655,954
143— 6: 2,655,955
2,655,956
43: 2,655,957
135: 2,655,958
174: 2,655,959
144— 34: 2,655,960
208: 2,655,961
297: 2,655,962
145— 61: 2,655,963
125: 2,655,964
146— 2: 2,655,965
122: 2,655,966
182: 2,655,967
150— .5: 2,655,968
1: 2,655,969
49: 2,655,970
152— 175: 2,655,971
213: 2,655,972
153— 65: 2,655,973
154— 1: 2,656,974
2,655,975
2,655,976
2.28: 2,656,290
9: 2,655,977
30: 2,655,978
42: 2,655,979
2,655,980
54: 2,656,291
79: 2,656,292
85: 2,656,293
121: 2,656,294
128: 2,656,295
132: 2,656,296
139: 2,656,297
155— 14: 2,655,981
30: 2,655,982
123: 2,655,983
157— 1.17: 2,655,984
1.24: 2,655,985
158— 11: 2,655,986
2,655,987
27.4: 2,655,988
58: 2,655,989
76: 2,655,990
113: 2,655,991
118: 2,655,992
164— .5: 2,655,993
49: 2,655,994
118: 2,655,995
166— 18: 2,655,996
167— 55: 2,656,298
58: 2,656,299
170—135.26: 2,655,997
160.21: 2,655,998
160.32: 2,655,999
174— 18: 2,656,403
50.63: 2,656,404
178— 5.1: 2,656,405
2,656,406
2,656,407
2,656,408
2,656,409
2,656,410
2,656,411
6.7: 2,656,412
7.3: 2,656,413
2,656,414
60: 2,656,415
179— 18: 2,656,416
90: 2,656,417
91: 2,656,418
100.2: 2,656,419
2,656,420
107: 2,656,421
171: 2,656,422
180— 54: 2,656,000
76: 2,656,001
82.1: 2,656,002
181— .5: 2,656,003
33: 2,656,004
54: 2,656,005
183— 2.7: 1,656,006
4.2: 2,656,007
6: 2,656,008
37: 2,656,009
114.2: 2,656,010
115: 2,656,011
184— 1: 2,656,012
186— 1: 2,656,013
188— 3: 2,656,014
77: 2,656,015
132: 2,656,016
181: 2,656,017
197: 2,656,018
223.1: 2,656,019
240: 2,656,020
251: 2,656,021
258: 2,656,022
189— 15: 2,656,023
192— .064: 2,656,024
4: 2,656,025
21.5: 2,656,026
138: 2,656,027
144: 2,656,028
194— 10: 2,656,029
195— 80: 2,656,300
196—14.15: 2,656,301
28: 2,656,302
39: 2,656,303
50: 2,656,304
52: 2,656,305
2,656,306
66: 2,656,307
198— 9: 2,656,030
16: 2,656,031
20: 2,656,032
23: 2,656,033
115: 2,656,034
201: 2,656,035
213: 2,656,036
220: 2,656,037
199— 43: 2,656,038
200— 35: 2,656,423
2,656,424
50: 2,656,425
61.27: 2,656,426
61.82: 2,656,427
81.5: 2,656,428
2,656,429
82: 2,656,430
83: 2,656,431
88: 2,656,432
89: 2,656,433
108: 2,656,434
114: 2,656,435
116: 2,656,436
2,656,437
2,656,438
2,656,439
2,656,440
138: 2,656,441
144: 2,656,442
152: 2,656,443
201— 55: 2,656,444
202— 17: 2,656,308
33: 2,656,309
40: 2,656,310
57: 2,656,311
2,656,312
204— 163: 2,656,313
197: 2,656,314
206— 19.5: 2,656,039
46: 2,656,040
72: 2,656,041
210— 63: 2,656,042
211— 89: 2,656,043
119: 2,656,044
148: 2,656,045
213— 104: 2,656,046
214— 1: 2,656,047
2,656,048
2,656,049
2,656,050
2,656,051
2.5: 2,656,052

214— 8. 5: 2, 656, 053
11: 2, 656, 054
18: 2, 656, 055
50: 2, 656, 056
75: 2, 656, 057
77: 2, 656, 058
147: 2, 656, 059
309: 2, 656, 060
356: 2, 656, 061
514: 2, 656, 062
216— 2: 2, 656, 063
219— 4: 2, 656, 445
2, 656, 446
6: 2, 656, 447
19: 2, 656, 448
2, 656, 449
43: 2, 656, 450
220— 4: 2, 656, 064
52: 2, 656, 065
74: 2, 656, 066
86: 2, 656, 067
222— 22: 2, 656, 068
103: 2, 656, 069
117: 2, 656, 070
133: 2, 656, 071
134: 2, 656, 072
164 2, 656, 073
173: 2, 656, 074
190: 2, 656, 075
196. 3: 2, 656, 076
223— 91: 2, 656, 077
95: 2, 656, 078
96: 2, 656, 079
99: 2, 656, 080
226— 14: 2, 656, 081
18: 2, 656, 082
20. 8: 2, 656, 083
88: 2, 656, 084
88. 1: 2, 656, 085
91: 2, 656, 086
228— 57: 2, 656, 087
67: 2, 656, 088
229— 14: 2, 656, 089
2, 656, 090
35: 2, 656, 092
54: 2, 656, 093
230— 34: 2, 656, 094
114: 2, 656, 095
116: 2, 656, 096
117: 2, 656, 097
235— 1: 2, 656, 098
61: 2, 656, 099
2, 656, 100
2, 656, 101
2, 656, 102
61. 9: 2, 656, 103
79: 2, 656, 104
82: 2, 656, 105
92: 2, 656, 106
96: 2, 656, 107
117: 2, 656, 108
235— 132: 2, 656, 109
144: 2, 656, 110
236— 9: 2, 656, 111
11: 2, 656, 112
34: 2, 656, 113
237— 8: 2, 656, 114
238— 117: 2, 656, 115
283: 2, 656, 116
329: 2, 656, 117
240— 2: 2, 656, 451
11. 2: 2, 656, 452
51. 12: 2, 656, 453
52: 2, 656, 454
241— 24: 2, 656, 118
46: 2, 656, 119
202: 2, 656, 120
225: 2, 656, 121
255: 2, 656, 122
276: 2, 656, 123
242— 4: 2, 656, 124
45: 2, 656, 125
2, 656, 126
46. 2: 2, 656, 127
71: 2, 656, 128
75: 2, 656, 129
128: 2, 656, 130
135: 2, 656, 131
244— 75: 2, 656, 132
77: 2, 656, 133
2, 656, 134
87: 2, 656, 135
106: 2, 656, 136
246— 3: 2, 656, 455
240: 2, 656, 456
243: 2, 656, 457
248— 5: 2, 656, 137
128: 2, 656, 138
226: 2, 656, 139
316: 2, 656, 140
351: 2, 656, 141
249— 14: 2, 656, 142
250— 17: 2, 656, 458
20: 2, 656, 459
27: 2, 656, 460
2, 656, 461
2, 656, 462
33. 53: 2, 656, 463
33. 65: 2, 656, 464
36: 2, 656, 465
2, 656, 466
2, 656, 467
43. 5: 2, 656, 468
57: 2, 656, 469
71: 2, 656, 470
83. 6: 2, 656, 471
251— 59: 2, 656, 143
76: 2, 656, 144
134: 2, 656, 145
252— 21: 2, 656, 315
33. 4: 2, 656, 316
2, 656, 317
252— 46. 6: 2, 656, 318
62. 5: 2, 656, 319
301. 6: 2, 656, 320
313: 2, 656, 321
435: 2, 656, 322
2, 656, 323
253—39. 15: 2, 656, 146
2, 656, 147
254— 29: 2, 656, 148
92: 2, 656, 149
167: 2, 656, 150
255— 28: 2, 656, 151
51: 2, 656, 152
61: 2, 656, 153
257— 2: 2, 656, 154
129: 2, 656, 155
133: 2, 656, 156
235: 2, 656, 157
245: 2, 656, 158
2, 656, 159
2, 656, 160
259— 1: 2, 656, 161
14: 2, 656, 162
81: 2, 656, 163
171: 2, 656, 164
260— 5: 2, 656, 324
29. 1: 2, 656, 325
2, 656, 326
29. 4: 2, 656, 327
30. 4: 2, 656, 328
30. 6: 2, 656, 329
31. 8: 2, 656, 330
32. 8: 2, 656, 331
2, 656, 332
45. 5: 2, 656, 333
47: 2, 656, 334
50: 2, 656, 335
85. 5: 2, 656, 336
2, 656, 337
2, 656, 338
2, 656, 339
88. 1: 2, 656, 340
88. 7: 2, 656, 341
96. 5: 2, 656, 342
99: 2, 656, 343
2, 656, 344
2, 656, 345
159: 2, 656, 346
210: 2, 656, 347
239. 55: 2, 656, 348
2, 656, 349
240: 2, 656, 350
240. 1: 2, 656, 351
2, 656, 352
240. 4: 2, 656, 353
243: 2, 656, 354
248: 2, 656, 355
251. 5: 2, 656, 356
268: 2, 656, 357
294. 8: 2, 656, 358
295: 2, 656, 359
260—326. 3: 2, 656, 360
329. 2: 2, 656, 361
332. 1: 2, 656, 362
397. 1: 2, 656, 363
397. 3: 2, 656, 364
397. 4: 2, 656, 365
2, 656, 366
2, 656, 367
2, 656, 368
2, 656, 369
2, 656, 370
409: 2, 656, 371
461: 2, 656, 372
2, 656, 373
2, 656, 374
2, 656, 375
465. 9: 2, 656, 376
475: 2, 656, 377
482: 2, 656, 378
499: 2, 656, 379
514: 2, 656, 380
518: 2, 656, 381
521: 2, 656, 382
551: 2, 656, 383
553: 2, 656, 384
563: 2, 656, 385
2, 656, 386
570. 7: 2, 656, 387
570. 8: 2, 656, 388
576: 2, 656, 389
586: 2, 656, 390
2, 656, 391
608: 2, 656, 392
2, 656, 393
610: 2, 656, 394
644: 2, 656, 395
649: 2, 656, 396
668: 2, 656, 397
683. 15: 2, 656, 398
261— 41: 2, 656, 165
2, 656, 166
2, 656, 167
108: 2, 656, 168
262— 33: 2, 656, 169
263— 2: 2, 656, 170
14: 2, 656, 171
52: 2, 656, 172
264— 3: 2, 656, 173
2, 656, 174
6: 2, 656, 175
265— 56. 5: 2, 656, 176
60: 2, 656, 177
267— 1: 2, 656, 178
9: 2, 656, 179
2, 656, 180
48: 2, 656, 181
63: 2, 656, 182
73: 2, 656, 183
271— 2. 18: 2, 656, 184
41: 2, 656, 185
53: 2, 656, 186
273— 54: 2, 656, 187
63: 2, 656, 188
126: 2, 656, 189
279— 2: 2, 656, 190
7: 2, 656, 191
56: 2, 656, 192
66: 2, 656, 193
280— 6: 2, 656, 194
33. 05: 2, 656, 195
81: 2, 656, 196
274: 2, 656, 197
282— 5: 2, 656, 198
2, 656, 199
285— 122: 2, 656, 200
162: 2, 656, 201
287— 58: 2, 656, 202
76: 2, 656, 203
78: 2, 656, 204
292— 61: 2, 656, 205
86: 2, 656, 206
169: 2, 656, 207
216: 2, 656, 208
319: 2, 656, 209
353: 2, 656, 210
294— 65. 5: 2, 656, 211
110: 2, 656, 212
296— 23: 2, 656, 213
28: 2, 656, 214
47: 2, 656, 215
137: 2, 656, 216
299— 86: 2, 656, 217
118: 2, 656, 218
300— 21: 2, 656, 219
301— 5. 7: 2, 656, 220
12: 2, 656, 221
303— 3: 2, 656, 222
304— 40: 2, 656, 223
2, 656, 224
306— 20: 2, 656, 225
307— 140: 2, 656, 472
308— 84: 2, 656, 226
189: 2, 656, 227
309— 7: 2, 656, 228
17: 2, 656, 229
29: 2, 656, 230
310— 8. 2: 2, 656, 473
21: 2, 656, 474
228: 2, 656, 475
311— 1: 2, 656, 231
83: 2, 656, 232
312— 28: 2, 656, 234
56: 2, 656, 235
61: 2, 656, 233
234: 2, 656, 236
241: 2, 656, 237
257: 2, 656, 238
310: 2, 656, 239
313— 93: 2, 656, 476
94: 2, 656, 477
214: 2, 656, 478
240: 2, 656, 479
313— 278: 2, 656, 480
288: 2, 656, 481
314— 63: 2, 656, 482
315— 4: 2, 656, 483
5: 2, 656, 484
9: 2, 656, 485
22: 2, 656, 486
104: 2, 656, 487
173: 2, 656, 488
316— 25: 2, 656, 489
317— 12: 2, 656, 490
89: 2, 656, 492
178: 2, 656, 491
234: 2, 656, 493
2, 656, 494
2, 656, 495
235: 2, 656, 496
318— 19: 2, 656, 497
28: 2, 656, 498
2, 656, 499
331: 2, 656, 500
367: 2, 656, 501
322— 2: 2, 656, 502
324— 37: 2, 656, 503
42: 2, 656, 504
48: 2, 656, 505
57: 2, 656, 506
61: 2, 656, 507
71: 2, 656, 508
98: 2, 656, 509
104: 2, 656, 510
117: 2, 656, 511
137: 2, 656, 512
333— 21: 2, 656, 513
23: 2, 656, 514
33: 2, 656, 515
71: 2, 656, 516
73: 2, 656, 517
81: 2, 656, 518
336— 30: 2, 656, 519
65: 2, 656, 520
339— 55: 2, 656, 521
340— 147: 2, 656, 522
183: 2, 656, 523
206: 2, 656, 524
234: 2, 656, 525
236: 2, 656, 526
253: 2, 656, 527
268: 2, 656, 528
321: 2, 656, 529
343— 6: 2, 656, 530
11: 2, 656, 531
2, 656, 532
17. 7: 2, 656, 533
2, 656, 534
18: 2, 656, 535
118: 2, 656, 536
346— 35: 2, 656, 240

CLASSIFICATION OF DESIGNS

D 3—19: Des. 170,668
D 4— 3: Des. 170,673
D14— 3: Des. 170,636
6: Des. 170,626
Des. 170,632
D15—11: Des. 170,665
D16— 2: Des. 170,655
D26—13: Des. 170,648
D29— 2: Des. 170,631
23: Des. 170,634
D29—23: Des. 170,635
Des. 170,644
D33— 8: Des. 170,629
14: Des. 170,670
Des. 170,672
19: Des. 170,621
D34— 5: Des. 170,649
Des. 170,656
Des. 170,664
11: Des. 170,625
D34—15: Des. 170,645
D36— 2: Des. 170,660
8: Des. 170,666
D44— 6: Des. 170,650
9: Des. 170,652
Des. 170,653
10: Des. 170,663
15: Des. 170,654
29: Des. 170,659
D45—10: Des. 170,628
D45—17: Des. 170,667
19: Des. 170,661
D49— 1: Des. 170,647
D52— 1: Des. 170,658
D56— 4: Des. 170,618
Des. 170,619
Des. 170,620
Des. 170,671
D57— 1: Des. 170,622
Des. 170,623
D57— 1: Des. 170,624
D58—13: Des. 170,651
17: Des. 170,639
D61— 1: Des. 170,633
D66— 1: Des. 170,637
D70— 1: Des. 170,638
D74— 1: Des. 170,627
Des. 170,641
9: Des. 170,642
Des. 170,643
D80— 5: Des. 170,617
D86—10: Des. 170,662
Des. 170,669
D87— 3: Des. 170,657
D90—20: Des. 170,640
D92— 1: Des. 170,630
Des. 170,646

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IN RE HUDSON

No. 5960. Decided June 3, 1953

[205 F.2d 174; 98 USPQ 151]

1. CLAIMS—DEFINITENESS—DEGREE OF DEFINITENESS REQUIRED IS VARIABLE.

Rule restated that the certainty required in patents is not greater than that which is reasonable, having regard to the subject matter involved and, while a claim should be clear and definite, the degree of definiteness necessary to satisfy the law varies in accordance with the facts and circumstances of each case.

2. SAME—SAME—LOWER TEMPERATURE LIMIT NEED NOT BE SPECIFIED IN FINITE TERMS.

Held that a claim which defines a solvent for excess impregnant in wood as having a boiling point "not less than 25° F. to 50° F. higher than the initial temperature of" the wood being treated is not indefinite for failing to specify a particular temperature where the specification supports a claim of this breadth and it describes the invention in such terms that those skilled in the art might practice it without further instruction.

3. PATENTABILITY—PARTICULAR SUBJECT MATTER—REMOVING EXCESS IMPREGNANT FROM WOOD.

A certain claim to a method of removing excess impregnant from wood *Held* to state the invention in sufficiently definite terms and to define invention over the cited prior art.

APPEAL from Patent Office. Serial No. 122,857.

REVERSED.

Parrott, Richards & Sims (*Channing L. Richards* of counsel) for appellant.

E. L. Reynolds (*H. S. Miller* of counsel) for the Commissioner of Patents.

COLE, *J.*:

The issue presented in this appeal relates to the patentability of a method of removing excess impregnant from impregnated wood.

Concededly, the appellant's application discloses novel subject matter, the tribunals of the Patent Office having allowed accompanying claims. Claim 8, however, was somewhat controversial and was finally rejected on the ground that it was too broad, indefinite, and unpatentable over the prior art of record. The sole question for determination here concerns the correctness of that decision.

Wood is preserved by impregnation with chemicals such as creosote. In the course of subsequent commercial usage of such treated wood, the impregnant therein has a tendency to "bleed" onto the surface of the wood, thereby presenting a wet or sticky exterior which is objectionable in many ways, particularly in interfering with the successful utilization of the wood product.

The applicant asserts that the "bleeding" characteristic of the impregnated wood, commonly demonstrated in the case of creosoted telephone poles and railroad cross-ties, has never, until his inventive process was discovered, satisfactorily been overcome. Applicant's method of removing the excess impregnant, as set forth in rejected claim 8, reads as follows:

> 8. The method of removing excess impregnant from impregnated wood and thereby minimizing subsequent bleeding of the impregnant onto the surface thereof, which comprises heating the impregnated wood in a closed space by introducing into said closed space vapors of an organic solvent for the impregnant having a boiling point at the pressure in said closed space not higher than about 320° F. so that said heating is carried out at a temperature substantially below the temperature at which said wood would be damaged by heating, but said boiling point being not less than 25° F. to 50° F. higher than the initial temperature of said impregnated wood whereby said wood is heated by said vapors so that excess impregnant in the outer layers of the wood is effectively expanded and forced to the surface of said wood, continuing introduction of said organic solvent vapors until said excess impregnant is extracted to a desired extent by condensate of said organic solvent continuously formed on the surface of said wood in said closed space for solvent action at full strength, and draining and recovering said condensate and extracted excess impregnant from said wood.

In general, it may be observed that the method involves treating the impregnated wood with vapors of an organic solvent, (which is a solvent for the particular impregnant employed) said solvent having a boiling point above the temperature of the wood to be treated. More specifically, the claim is drawn to a method whereby the organic solvent vapors are utilized for the dual function of heating the impregnated wood to a temperature sufficiently high so as to expand and force the excess impregnant to the surface of the wood, and secondly to extract said impregnant by condensation of the organic solvent vapors on the surface of the impregnated wood as it is heated by the vapors.

The admittedly novel feature of applicant's method is found to reside in the dual function obtained, i. e., heating and solvent action. Unquestionably, this is the very essence of the disclosure. The Examiner made it explicit in his opinion, and we quote from the text thereof, "that it is by selecting solvents of certain boiling points that appellant gets the dual function of the solvent

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and the heating effect of the vapor." Bearing this in mind, but with complete regard for the rule that ordinarily action by the Patent Office in rejecting or granting claims is not citable as sufficient authority in appeals before this court from decisions affecting other claims in the same application, we now observe wherein the allowed claims of the application differ from the claim in question.

Each of the allowed claims contains a limitation which defines the boiling point range of the solvent used in the process. At standard pressure, or at the pressure in the closed space, the recitation of the boiling point range as being from 240° F. to 320° F. was considered to be an adequate definition, neither unduly broad nor indefinite. The method of these claims was considered patentable and no prior art was cited in opposition to patentability.

Rejected claim 8 differs from the allowed claims in one material respect. The lower limit for the solvent boiling point range is not stated in the same succinct terms as it is in the allowed claims, but instead defines the lower limit in a manner indicative of the temperature differential above the initial temperature of the impregnated wood to be treated. Considering again the actual language of the appealed claim, the controversy is predicated upon the alleged indefiniteness of the following:

> • • • having a boiling point at the pressure in said closed space not higher than about 320° F. • • • but said boiling point being not less than 25° F. to 50° F. higher than the initial temperature of said impregnated wood • • •

Claim 8 is intended to cover the use of solvents boiling below 240° F.

The Examiner, after noting that the upper boiling limit was properly defined in terms corresponding to those set forth in the allowed claims, rejected claim 8 on the basis of the following reasons:

> The references relied on are: Clark, 322,521, July 21, 1885; Bohm, 649,155, May 8, 1900; Newton, 1,203,038, Oct. 31, 1916; Teesdale, 1,295,828, Feb. 25, 1919; Booty et al., 2,118,036, May 24, 1938.
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> Claim 8 stands rejected as being unpatentable over either Newton or Teesdale in view of either Clark, Bohm or Booth [Booty] et al. Each of the primary references discloses that it is old to remove excess impregnant from impregnated wood by applying steam to the wood in a closed chamber. Each of the secondary references teaches the use of organic solvents for removing excess impregnant from impregnated materials. • • • claim 8 is not limited as indicated • • • to the use of organic solvents having boiling points within the range from 240° F. to 320° F. at standard pressure, or at the pressure in the claimed close space, but includes the use of organic solvents that may have boiling points at standard pressure or at the pressure within said closed space equal to or below the temperature of the steam used in the Newton or Teesdale process. • • •
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> Claim 8 stands further rejected as being unduly broad and indefinite in the recitation of "an organic solvent • • • not less than 25° to 50° F. higher than the initial temperature of said impregnated wood." Since this claim does not define what the initial temperature of the impregnated wood should be, the claim does not limit the organic solvents that appellant employs to any "certain boiling points" • • • but includes the use of organic solvents that may have boiling points equal to or well below the temperature of the steam employed in the Newton process. • • •

The Board of Appeals, in affirming the Examiner's opinion, appeared to rely primarily on the thought that the claim in question was indefinite or meaningless because of the failure to assert the initial temperature of the impregnated wood. In summarizing, the Board said:

> • • • Without an adequate statement of the boiling temperature range of the solvent under consideration the claim fails to properly define the alleged invention or to patentably distinguish the subject matter over the art.

The Solicitor, in his brief, stated:

> At the outset, it is to be noted that it is conceded that appellant's application discloses an invention, which is patentable when the boiling temperature range of the solvent under consideration is adequately defined, as in the allowed claims. • • •

This concession, carried further, as is logical, rejects the listed prior art references provided we find, as we will, that the boiling temperature range of the solvent under consideration is adequately defined. It is clear to us that the method of removing excess impregnant from impregnated wood by applying steam in a closed chamber, as disclosed in the Newton or Teesdale patents, or by using organic solvents in the manner presented by the other references referred to as secondary, is sufficiently different from the procedure laid out and followed by the applicant's theory, as to entitle it to complete segregation therefrom in a patent sense. The prior art phase of the case will be discussed in more detail in the course of the opinion.

The patentability of the claim in question depends, therefore, primarily on whether the lower boiling point limitation of the particular solvent used in the process is properly defined. In substance, this is an issue of fact to be resolved in the light of applicable law pertinent thereto.

[1] The certainty required in patents is not greater than that which is reasonable, having regard to the subject matter involved. *Minerals Separation, Ltd.* v. *Hyde*, 242 U. S. 261. This well established proposition of law readily lends itself to flexible and practical application in appraising the sufficiency of patent disclosures. That a claim should be clear and definite is, of course, elementary, but the degree of definiteness necessary to satisfy the law varies in accordance with the facts and circumstances of each case. In the case of *General Electric Co.* v. *Wabash Co.*, 304 U. S. 364, the Court said:

> • • • Patents, whether basic or for improvements, must comply accurately and precisely with the statutory requirements as to claims of invention or discovery. The limits of a patent must be known for the protection of the patentee, the encouragement of the inventive genius of others and the assurance that the subject of the patent will be dedicated ultimately to the public. The statute seeks to guard against unreasonable advantages of the patentee and disadvantages to others arising from uncertainty as to their rights. The inventor must "inform the public during the life of the patent of the limits of the monopoly asserted, so that it may be known which features may be safely used or manufactured without a license and which may not." The claims "measure the invention." • • •

We cannot conclude that the presumption of correctness attaching to the decision of the Patent Office tribunals in the instant case is sufficient to overcome what we consider to be an aptly and adequately drawn claim, which fully defines the invention and which finds clear and abundant support in the specification disclosure.

The applicant states that the temperature range of approximately 240° F. to 320° F. is, in most instances, the practical operating range of the process and covers substantially all the compounds used in carrying out the vapor treatment. Characteristically, these compounds are inflammable and hence the lower boiling solvents must be considered in the light of their respective low flash points as a safety measure in carrying out the process. The temperature limit of 240° F. is deemed a proper observance in this regard, but operation below this point is said to be unwise. The accuracy of the foregoing was not challenged by the Patent Office and accordingly, definition of the solvents used in the process as having a boiling point within the temperature differential stated (240°–320° F.) was held to sufficiently express allowable subject matter in view of the dual function obtained by the method.

The claim on appeal was intended to be broader with respect to boiling point limitation than were the allowed claims. The applicant explains that there are certain organic solvents that are non-inflammable, such as trichlorethylene, which have boiling points below 240° F. Inasmuch as the need for safety precautions aforementioned are of no concern in this instance, the lower temperature limit basically becomes a matter of providing effective heating by the solvent vapors whereby expansion and extraction of the impregnant, i. e., the dual function, is realized. The success of applicant's process does not necessarily depend on the employment of an organic solvent boiling between 240° F. and 320° F., as non-inflammable solvents boiling below the lower limit of this temperature differential may be used in the process so long as the hot vapors thereof perform in the stated dual capacity.

The claim on appeal requires the lower boiling point of the solvent to be not less than 25° F. to 50° F. higher than the initial temperature of the impregnated wood to be treated. The initial temperature of the wood is not stated in claim 8 and the Board of Appeals expressed the view that the appealed claim was inclusive of the treatment of such wood at atmospheric temperature, or below, or as indicated by example in the text of the application on appeal, the treatment might be carried out immediately following the preservative impregnation of the wood. The temperature prevailing in this latter instance would necessarily be in excess of that prevailing where applicant's method is applied to wood at atmospheric temperature or below. The Board held the limitation in question, by reason of the foregoing, to be indefinite or meaningless.

The applicant, in disputing the accuracy of the Board's conclusion in this respect, stated as follows:

> • • • the initial temperature of the wood to be treated may vary from instance to instance depending, for example, upon the type of impregnation treatment that has been used, and this initial temperature might well be a normal atmospheric temperature, or below, as the Board of Appeals has suggested. • • •
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> • • • it is submitted to be apparent that the determination of the initial temperature of wood to be treated according to applicant's method is certainly within the expected skill of the art without further directions from applicant, and that having determined this initial temperature the necessary boiling point for the organic solvent to be used is specified with certainty by claim 8 on appeal. • • •
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> • • • The impregnated wood to be treated will obviously be at some initial temperature that can be determined readily with definiteness and certainty, and if the wood is then subjected to treatment by applicant's method with vapors of an organic solvent having a boiling point sufficiently above the initial temperature of the wood as defined in claim 8 on appeal, then the novel *dual function* of heating and solvent action will be obtained by the solvent vapor treatment of applicant's method no matter what the initial temperature of the wood to be treated happens to be. [Italics quoted.]

[2] As we have previously indicated, we are satisfied that claim 8 of the instant application is sufficiently definite to satisfy the requirements of the law, and that the specification fully supports the claim and describes the alleged invention in clear and concise terms so that those skilled in the art might practice it without the necessity of further instruction. That the claims themselves must adequately point out, and distinctly claim the invention, is a fundamental consideration, and we have always found ourselves unwilling to deviate from a strict adherence to that rule in considering claims of an ex parte patent application. It appears to us, however, that the fact that claim 8 is inclusive of the treatment of impregnated wood at atmospheric temperature or below does not render the claim defective for indefiniteness, nor is it thought to be unduly broad in the inventive concept claimed.

The initial temperature of the wood is easily to be ascertained and the lower boiling point limitation of the solvent used in the process would seem to be a mere matter of basic arithmetic computation. The applicant clearly states in his specification that the operating temperature employed in the method must be sufficiently above the temperature of the wood to be treated so that the excess impregnant in the outer layers of the material is expanded and forced to the surface. In this respect, the organic compound used as a solvent for the particular impregnant to be removed must, in the words of the claim in question, have a boiling point "not less than 25° F. to 50° F. higher than the initial temperature of said impregnated wood," (the upper limit being 320° F.) and while the claim may be said to be broadly stated, nevertheless, the invention itself is broader than that defined in the allowed claims of the application.

Counsel for the Commissioner of Patents presents this statement in his brief:

> • • • Appellant conceded in his argument before the Board of Appeals on request for reconsideration • • • that "Claim 8 was intentionally drawn • • • to cover and include instances where the process • • • is used for treating 'wood which is at normal atmospheric temperature or below.'" Assuming a normal atmospheric temperature of 70° F., claim 8 only requires that the boiling point of the solvent be "not less than 25° F. to 50° F." higher, that is, about 95° F. to 120° F. The lowest limit given in either Newton or Teesdale, namely, 220° F., is not less than 120° F., as required by claim 8 under the interpretation hereinbefore used.

The foregoing statement is hardly consistent with the further argument that claim 8 should be rejected because of indefiniteness. Counsel has effectively demonstrated why the claim is easily

capable of translation into what it clearly means and intends.

Considering now the prior art of record, it has previously been said that the primary references disclose a method whereby excess impregnant is removed by application of steam to the impregnated wood, while the secondary references teach the use of an organic solvent for removing excess impregnant from impregnated materials. The Solicitor argues that it would be well within the skill of the worker in the art to use one of the solvents of the secondary references and apply it in the process of either Newton or Teesdale. Further argument is made to the effect that the claim in question is unpatentable in view of the fact that the temperature limitation therein may be below the temperature of the steam used in the process of the primary references.

We do not regard this argument as presenting any serious obstacle to the patentability of the appealed claim. It is quite apparent that the dual function of the applicant's method is the novel feature thereof, and the fact that the organic solvent used in applicant's process may boil below the boiling point of water would hardly appear to be material, so long as the stated dual function is obtained. Steam is not an organic solvent, and we must express our agreement with the following statement from the applicant's brief:

• • • the solubilizing action provided by the dual function of the condensing organic vapor which is characteristic of applicant's method, • • • is not obtained by the processes disclosed in the primary references, • • •

Further, we are in agreement with the applicant in his reference to the secondary patents, as follows:

• • • In *Clark 322,521*, the oily residues left on leather in the production of "French glazed kid" are removed by washing the leather in one or more baths of an organic solvent such as naphtha. In *Bohm 649,155*, a waterproofing treatment of leather is described in which the leather is first treated with a solution of wax and nitrobensene or the like, and is then washed in a bath composed in equal parts of alcohol and benzene. In *Booty 2,118,036*, a treatment of resin impregnated wood with a solution of methyl alcohol is disclosed for preventing frothing of the resin during curing.

The method disclosed by the application on appeal is clearly distinguishable over any of the washing procedures in the above secondary references in that according to applicant's method the active solvent is not contaminated by the impregnant being extracted as is the case with washing. According to applicant's method an organic vapor is used in such a manner that condensate forms to effect the extraction and drains off to carry away the extract. As a result contaminated solvent is continually removed and replaced with fresh solvent. Moreover, the procedure of applicant's method results in contamination of only a minimal amount of solvent which simplifies the problem of solvent recovery; and, further, applicant's method requires far less solvent than a washing treatment in which, as indicated by all of the above secondary references, enough solvent must be provided to allow for immersing the material being treated. [Italics quoted.]

[3] We think it manifest that applicant's method involves invention and that the appealed claim has been satisfactorily drawn to define that invention, and for the reasons hereinbefore stated, the decision of the Board of Appeals is reversed.

REVERSED.

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

1,779,848. (See Re. 19,887.)

1,911,537, R. R. Tanner, Coating metal with an organic salt of the metal; 2,137,968, same, Coated iron article; 2,273,234, same, Method of and solution for producing a coated iron article, D. C., N. D. Ohio (Cleveland), Doc. 25973, *Parker Rust Proof Co.* v. *The Timken Roller Bearing Co.* Stipulation and counsel discontinuing case without prejudice Mar. 3, 1950.

2,060,472. (See Re. 19,887.)

2,073,103. (See Re. 19,887.)

2,075,684, V. I. Whitman, Excised photographic plate system of composite motion picture photography, filed July 30, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15764–WB, *V. I. Whitman* v. *Walt Disney Productions, Inc., et al.*

2,137,968. (See 1,911,537.)

2,190,517. (See Re. 19,887.)

2,219,218, Berger & Kaiser, Pipe and hose union; 2,219,266, P. Hirsch, Hose and pipe coupling; 2,266,211, R. Kaiser, Hose connection; 2,476,480, Burckle & Christman, Hose and tube fitting, filed July 23, 1953, D. C., N. D. Ohio (Cleveland), Doc. 30414, *Aeroquip Corp.* v. *The Weatherhead Co.*

2,219,266. (See 2,219,218.)

2,225,171, J. W. Hammes, Garbage disposal apparatus, filed Aug. 3, 1953, D. C., E. D. Mich. (Detroit), Doc. 12797, *In-Sink-Erator Mfg. Co.* v. *Graybar Electric Co. et al.*

2,229,412. (See Re. 19,887.)

2,261,588, 2,364,093, 2,364,647, J. B. O'Connor, Chair construction; 2,458,095, same, Seat construction for chairs, D. C. N. J. (Newark), Doc. 11064 and 159/49, *Lyon Metal Products, Inc.* v. *Aero Metalcraft Corp. et al.* Default decree holding patents valid and infringed, however it is predicated solely upon the presumption of validity and is not to be construed as a judicial determination of validity (notice July 28, 1953).

2,266,211. (See 2,219,218.) 2,273,234. (See 1,911,537.)

2,310,920, M. Adrian, Conveyor; Des. 137,024, same, Street-sweeper body, D. C., S. D. Calif. (Los Angeles), Doc. 14960–Y, *The Conveyor Co.* v. *H. Burgdorff et al.* Dismissed on motion of defendant (notice July 23, 1953).

2,329,362. (See Re. 19,887.)

2,359,476, C. K. Gravley, Electrostatic method and apparatus, filed Aug. 3, 1953, D. C., N. D. Ohio (Cleveland), Doc. 30436, *Ransburg Electro-Coating Corp.* v. *Metaloid Co. et al.*

2,364,093. (See 2,261,588.) 2,364,647. (See 2,261,588.)

2,405,866. (See Re. 23,619.)

2,427,581, L. P. Touchett, Paint applicator; 2,444,584, same, Sloping bottom tray and support structure, D. C., E. D. Mich. (Detroit), Doc. 8454, *E-Z Painter Corp.* v. *Thomas Products Co.* Judgment dismissing complaint and granting defendants' counterclaim, patents held invalid July 22, 1953.

2,444,584. (See 2,427,581.) 2,476,480. (See 2,219,218.)

2,458,095. (See 2,261,588.)

2,566,287, L. H. Finneburgh, Jr., Television antenna system; 2,630,531, same, Television antenna, filed July 22, 1953, D. C. Ariz. (Phoenix), Doc. 1910, *The Finney Co. et al.* v. *Southwest Wholesale Radio.*

2,628,184, R. R. Widmann, Composition of matter to decrease the circulation of blood and lymph in vascular and allergic disorders, D. C., S. D. Calif. (Los Angeles), Doc. 15490–HW, *R. R. Widmann* v. *Signet Laboratories.* Consent judgment holding patent valid and infringed; injunction July 31, 1953.

2,630,531. (See 2,566,287.)

Re. 19,887, O. S. Jennings, Panel circuit breaker; 2,190,517, 2,229,412, same, Circuit breaker; Re. 21,429, C. M. Petersen, Circuit control device; 1,779,848, R. Logstadt, Circuit breaker; 2,060,472, J. Sandin, same; 2,073,103, C. H. Hodgkins, same; 2,329,362, R. H. Swingle, same, C. C. A., 4th Cir., Richmond, Doc. 6544, *Westinghouse Electric Corp.* v. *Bulldog Electric Products Co.* Judgment of district court affirmed July 24, 1953.

Re. 21,429. (See Re. 19,887.)

Re. 23,619 (of 2,405,866), C. E. Weller, Electrical heating apparatus, filed July 24, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1636, *Weller Mfg. Co.* v. *Drake Electric Works, Inc.*

Des. 137,024. (See 2,310,920.)

Des. 162,245, Des. 162,246, J. M. Smith, Children's rocker, filed July 27, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1642, *James M. Smith* v. *Tigrett Enterprises.*

Des. 162,246. (See Des. 162,245.)

Des. 168,512, A. Katz, Necklace, filed July 31, 1953, D. C., S. D. N. Y., Doc. 87/41, *Coro, Inc.* v. *De Milo.*

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946

T. M. 432,657, Mifflin Chemical Co., Rubbing alcohol; T. M. 433,990, same, Rubbing alcohol and emollients, filed July 24, 1953, D. C., S. D. N. Y., Doc. 86/380, *Mifflin Chemical Co.* v. *Purepac Corp.*

T. M. 433,990. (See T. M. 432,657.)

T. M. 535,122, Kamkap, Inc., Outdoor and indoor clothes dryer, filed July 21, 1953, D. C., E. D. Pa. (Philadelphia), Doc. 15577, *Kamkap, Inc.* v. *Auto Boys et al.*

T. M. 536,351, R. C. Parkes, Drying, dyeing, bleaching and carbonizing machines, etc., filed July 23, 1953, D. C., E. D. Pa. (Philadelphia), Doc. 15589, *The National Drying Machinery Co.* v. *Jack Ackoff Co.*

NOTICES

Erratum

In the OFFICIAL GAZETTE, issue of Aug. 25, 1953, page 867, under the heading "Adverse Decisions in Interferences," error appears in the notice concerning Patent No. 2,564,341, issued to I. A. Paige.

In line 2 of said notice, for "claims 1, 2, 3, and 4" read *claims 1, 2, and 4.*

Adjudicated Patents

(C. A. Tex.) Andrus Patent No. 2,267,361, for a corrosion-resistant metallic structure. Claims 1 and 8 *Held* invalid. *A. O. Smith Corporation* v. *Affiliated Gas Equipment, Inc.*, 205 F.2d 654; 98 USPQ 169.

(C. A. Tex.) Uecker Patent No. 2,322,488, for a glass lined hot water tank. Claims 1 and 2 *Held*, if valid, not infringed. *Id.*

(C. A. Mass.) Perry Patent No. 2,462,029, for adhesive compositions. Claims 1 to 7 *Held* valid and infringed. *S. D. Warren Company* v. *Nashua Gummed and Coated Paper Company*, 205 F.2d 602; 98 USPQ 41.

(C. A. Tex.) Garrett and Peters Patent No. 2,519,242, for a pressure responsive valve, *Held* valid and infringed. *The Gulberson Corporation* v. *Garrett Oil Tools, Inc.*, 205 F.2d 660; 98 USPQ 165.

(C. A. Tex.) Andrus Reissue Patent No. 23,559, for a corrosion-resistant metallic structure. Claims 1 and 8 *Held* invalid. *A. O. Smith Corporation* v. *Affiliated Gas Equipment, Inc.*, 205 F.2d 654; 98 USPQ 169.

Bound Volume of Commissioners' Decisions

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Disclaimers

2,486,001.—*George G. Bruck*, East Orange, N. J., and *Philip E. Volz*, Auburndale, Mass. FREQUENCY-STABILIZING SYSTEM. Patent dated Oct. 25, 1949. Disclaimer filed Sept. 28, 1953, by the assignee, *Raytheon Manufacturing Company.*

Hereby enters this disclaimer to claims 9, 10, and 11 of said patent.

2,613,317.—*Robert F. Mozley*, Berkeley, Calif. CIRCUITS FOR OBJECT LOCATOR APPARATUS. Patent dated Oct. 7, 1952. Disclaimer filed Sept. 23, 1953, by the assignee, *The Sperry Corporation.*

Hereby enters this disclaimer to claims 4 and 7 of said patent.

2,635,111.—*Henry G. McGrath*, Elizabeth, *Herbert J. Passino*, Englewood, and *Louis C. Rubin*, West Caldwell, N. J. SEPARATION OF ORGANIC COMPOUNDS. Patent dated Apr. 14, 1953. Disclaimer filed Sept. 29, 1953, by the assignee, *The M. W. Kellogg Company.*

Hereby enters this disclaimer to claim 16 of said patent.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

E. I. du Pont de Nemours and Company has placed 415 additional patents on the Register under Schedules XXVII, XXVIII, XXIX, XXX, XXXI, XXXII, XXXIII, XXXIV, and XXXV. Listing of these patents, which began in the *Register* section of the OFFICIAL GAZETTE, Sept. 22, 1953, and has continued since that time, is completed in this issue. These patents, which are available for licensing on reasonable terms as indicated at the beginning of each schedule, are in addition to more than 5,800 patents registered previously by the Du Pont Company and listed during 1948–1953 in the *Register* sections of the OFFICIAL GAZETTE. The present listing includes Reg. Nos. 51,951 through 52,013.

Inquiries concerning these patents should be addressed to: Patent Division, E. I. du Pont de Nemours and Company, Wilmington 98, Del.

SCHEDULE XXVIII (51 patents)—*Continued*

Pat. 2,407,896. Method of Recovering the Salt-Forming Components of Nylon. Sept. 17, 1946. A method of recovering for reuse the salt-forming components from 6-6 nylon, which comprises hydrolyzing with sulfuric acid a plurality of times, isolating the acid component after each hydrolysis, and subsequently isolating and purifying the diamine. Group 28—51.

Pat. 2,413,073. Stretching Rolls. Dec. 24, 1946. Jamming feed rolls especially for use in drawing very heavy denier yarns or filaments. Group 35—52.

Pat. 2,418,492. Manufacture of Tapered Filaments. Apr. 8, 1947. Improvement in making tapered filament, involving withdrawing the filament at uniformly varied rate, the deceleration period being extended. Group 28—51.

Pat. 2,423,182. Method of Cold Drawing Tapered Filaments. July 1, 1947. Process and apparatus for cold drawing tapered nylon filaments by heating to 40°–100° C. between draw points. Group 28—51.

Pat. 2,424,750. Method and Apparatus for Metering, in Its Bubble-Free State, a Bubble-Containing Fluid. July 29, 1947. A precision rotary pump adapted to dissolve bubbles in a bubble-containing liquid and process of metering with said pump. Group 35—52.

Pat. 2,533,320. Rotary Gear Type Metering Pump. Dec. 12, 1950. A rotary gear-type metering pump which utilizes two sets of gears to forward two streams of liquid. Group 35—52.

Pat. 2,571,975. Melt Spinning Process. Oct. 16, 1951. A process for melt spinning a polyamide in which molten polymer is brought into equilibrium with water vapor at constant pressure prior to extrusion into filaments. Group 28—51.

Pat. 2,585,584. Yarn Package and Method of Winding. Feb. 12, 1952. Yarn package with a transfer tail on a removable sleeve and process. Group 22—23.

Pat. 2,625,536. Neutral Esters of Dicarboxylic Acid, Orthophosphoric Acid, Mixed Anhydrides and Condensation Polymerization Process Utilizing the Same. Jan. 13, 1953. Linear polyamides and their preparation by a moderate temperature reaction of a diamine with a neutral ester of a mixed anhydride of a dicarboxylic acid and orthophosphoric acid. Group 28—51.

SCHEDULE XXIX (20 patents)

Licenses will be granted under these patents to make, use, and sell adipic acid, adiponitrile, cyclohexane, cyclohexanone, cyclohexanol, hexamethylene diamine, hexamethylene diammonium adipate, and hexamethylene diammonium sebacate.

Pat. 2,130,947. Diamine-Dicarboxylic Acid Salts and Process of Preparing Same. Sept. 20, 1938. Salts of $R(CH_2NH_2)_2$ plus $R'(CH_2COOH)_2$ where R and R' are of at least 2 carbons and have no olefinic or acetylenic unsaturation. Group 28—89.

Pat. 2,144,340. Process and Apparatus for the Production of Adiponitrile. Jan. 17, 1939. Preparation of adiponitrile by catalystic dehydration of adipoyl compounds. Groups 28—89; 35—59.

Pat. 2,166,151. Catalytic Hydrogenation of Adiponitrile To Produce Hexamethylene Diamines. July 18, 1939. Liquid-phase hydrogenation in the presence of ammonia. Group 28—89.

Pat. 2,166,152. Hydrogenation of Aliphatic Dinitriles. July 18, 1939. Hydrogenating an aliphatic dinitrile of 6–10 C atoms in presence of Co catalyst at 50°–170° C. Group 28—89.

Pat. 2,200,734. Manufacture of Nitriles. May 14, 1940. NH_3 and a carboxylic compound over a compound of B and P as a catalyst at 300°–550° C. to produce nitriles. Group 28—89.

Pat. 2,223,493. Oxidation of Cyclic Compounds. Dec. 3, 1940. Producing aliphatic dibasic acids by oxidising a cyclic hydrocarbon in liquid phase at greater than 60° C. by oxygen-containing gas in presence of oxidation catalyst. Group 28—89.

Pat. 2,223,494. Production of Cyclic Alcohols and Ketones. Dec. 3, 1940. Producing cyclic alcohols and ketones by oxidising a cyclic hydrocarbon in liquid phase at greater than 60° C. by oxygen-containing gas in presence of oxidation catalyst. Group 28—89.

Pat. 2,232,059. Chemical Process. Feb. 18, 1941. Separation of hexamethylene imine by azeotropic distillation with water. Group 28—89.

Pat. 2,242,309. Process of Purifying Nitriles. May 20, 1941. Purification of dinitriles by washing with a solution of a bisulfite. Group 28—89.

Pat. 2,242,466. Process for Vaporization of Adipic Acid. May 20, 1941. Flash distillation from a metal surface. Group 28—89.

Pat. 2,284,525. Process for the Hydrogenation of Adiponitrile. May 26, 1942. Continuous hydrogenation of adiponitrile to hexamethylenediamine in the presence of ammonia at selected mol ratios of reactants. Group 28—89.

Pat. 2,305,103. Purification of Nitriles. Dec. 15, 1942. Purification of adiponitrile and homologues thereof by oxidation of the dinitrile with Na or K dichromates or permanganates and distillation. Group 28—89.

Pat. 2,316,543. Catalytic Oxidation. Apr. 13, 1943. Catalytic oxidation of ketones in a solvent by means of O_2 in presence of Mn and Ba acetates. Group 28—89.

Pat. 2,341,288. Catalytic Oxidation of Ketones. Feb. 8, 1944. Producing adipic acid by subjecting cyclohexanone to O_2 in the presence of actinic light and oxidation catalyst. Group 28—89.

Pat. 2,369,061. Preparation of Nitriles. Feb. 6, 1945. Preparation of adiponitrile by passing NH_3 thru the half alkyl ester of adipic acid in the presence of a nitrile-forming catalyst. Group 28—89.

Pat. 2,391,283. Process for the Hydrogenation of Benzene. Dec. 18, 1945. Process involving in situ reactivation of Ni-Al alloy catalyst with dilute caustic alkali. Group 28—89.

Pat. 2,439,513. Adipic Acid Process. Apr. 13, 1948. Preparation of adipic acid by air oxidation of cyclohexane, followed by separation of the unoxidized cyclohexane and oxidation of the cyclohexane-free reaction mixture with nitric acid. Group 28—89.

Pat. 2,511,475. Catalytic Oxidation of Ketones. June 13, 1950. A process for oxidation of a ketone in the presence of a catalyst containing manganese and barium organic salts and 70–300 parts of a cobalt as organic acid salt per million parts of manganese salt. Group 28—89.

Pat. 2,557,281. Oxidation of Petroleum Cyclohexane. June 19, 1951. A process for manufacturing cyclohexanol and cyclohexanone by a liquid phase partial oxidation of petroleum cyclohexane with gaseous oxygen in the presence of a cobalt catalyst. Group 28—89.

Pat. 2,557,282. Adipic Acid Process. June 19, 1951. A process for the preparation of dibasic aliphatic acids by oxidising a cycloparaffin with gaseous oxygen, separating the unreacted cycloparaffin and further treating it with nitric acid, catalyst and water. Group 28—89.

SCHEDULE XXX (12 patents)

Licenses will be granted under these patents to make, use, and sell polyethylene film, tubing, sheeting, flakes, and molding powders.

Pat. 2,388,138. Process for Preparation of Ethylene Polymers. Oct. 30, 1945. Steps of compressing ethylene to 20–150 atm., refrigerating to a temperature between −35° and +5° C., condensing as liquid, polymerising at 800–3000 atm. Group 28—83.

Pat. 2,391,920. Polymerization Catalysts. Jan. 1, 1946. Process for polymerizing ethylene, in the presence of a dialkyl dioxide catalyst. Group 28—83.

Pat. 2,394,960. Process for Polymerizing Ethylene. Feb. 12, 1946. Process comprising polymerisation in the presence of H_2O and a peroxide in a stainless steel vessel. Group 28—83.

Pat. 2,396,677. Process for Polymerizing Olefinic Materials. Mar. 19, 1946. Polymerisation of ethylene in an aqueous medium in the presence of an organic peroxide catalyst in the absence of a dispersing agent at a pressure above 300 atmospheres and a temperature in the range of from 50°–250° C. Group 28—83.

Pat. 2,396,791. Process for the Preparation of Ethylene Polymers. Mar. 19, 1946. Continuous polymerization of ethylene in the presence of oxygen or a peroxy compound and recycling the unconverted ethylene. Group 28—83.

Pat. 2,396,920. Ethylene Polymerization Process. Mar. 19, 1946. Polymerization of ethylene in the presence of 0 to 50 parts per million of molecular oxygen, a peroxy compound, and a deoxygenated aqueous medium. Group 28—83.

Pat. 2,405,962. Process for Polymerizing Ethylene. Aug. 20, 1946. Continuous process for polymerization of ethylene by passing ethylene through a tubular vessel at elevated temperatures and pressures in the absence of a dispersing agent and in the presence of both water and a solvent from the group consisting of benzene and chlorobensene, the ethylene containing 30 to 150 parts per million of oxygen. Group 28—83.

Pat. 2,425,638. Polymerization of Ethylene. Aug. 12, 1947. Continuous polymerization of ethylene at elevated temperatures and pressures in the presence of a lower dialkyl dioxide. Group 28—83.

Pat. 2,431,042. Process for Obtaining Clear Films From Ethylene Polymers. Nov. 18, 1947. Preparation of clear ethylene polymer film by cooling and reheating molten polymer. Group 28—83.

Pat. 2,480,615. Working of Polyethylene. Aug. 30, 1949. Preparation of a freely extrudable polyethylene by subjecting the polymer to high shearing stresses in a restricted space bounded by two concentrically mounted cylindrical surfaces. Group 28—83.

Pat. 2,560,694. Bromate Ion-Sulfoxy Compound Catalyst System in Aqueous Polymerization Process. July 17, 1951. Polymerization of ethylenic compounds in the presence of bromate ion and selected water-soluble oxidizable sulfoxy compounds. Group 28—83.

Pat. 2,567,109. Initiator Systems Comprising a Titanous Compound and Nitrogen Compounds Such as Oximes. Sept. 4, 1951. Ethylenically unsaturated monomers are polymerized by contact with an aqueous dispersion containing titanous ion and a hydroxylamino compound. Group 28—85.

SCHEDULE XXXI (11 patents)

Licenses will be granted under these patents to make, use, and sell (1) polymethylmethacrylate cements, adhesives, coated fabrics, fabric coating compositions, clear finishes and aqueous dispersion textile treating compositions, (2) polymethylmethacrylate in the form of flakes, molding powders, sheets, rods, and blocks, (3) copolymers of methylmethacrylate and methacrylic acid and (4) methylmethacrylate monomer-polymer mixtures for dentures.

Pat. 2,133,257. Polymerisation Process. Oct. 11, 1938. Process for producing granular polymethylmethacrylate by polymerizing monomer dispersed in water containing a polymerised methylmethacrylate-ammonia reaction product. Group 28—83.

Pat. 2,169,558. Stiffening for Box Toes. Aug. 15, 1939. Molded stiffening of an absorptive base impregnated with a polymeric compound (acrylic acid, esters of acrylic acid, methacrylic acid, interpolymers and derivatives thereof). Group 28—83.

Pat. 2,317,138. Granular Polymerization of Ethenoid Monomers. Apr. 20, 1943. The steps of dispersing monomer in H_2O, initiating polymerization, and adding as a lubricant a saturated aliphatic acid containing 12–18 C atoms. Group 28—83.

Pat. 2,369,593. Production of Cast Sheets. Feb. 23, 1945. Process for the production of cast sheets of heat-polymerizable substance by filling a cell composed of two plates separated by a gasket and immersing the cell in a heated liquid bath until polymerization occurs. Group 28—83.

Pat. 2,373,446. Preparation of Bubble-Free Solid Bodies From Polymerizable Sirups. Apr. 10, 1945. Process for preparing bubble-free solid bodies from a sirup of a polymer from the group consisting of esters of acrylic and methacrylic acids by intermixing carbon dioxide gas with the sirup and polymerizing in the absence of air. Group 28—83.

Pat. 2,373,488. Cast Methyl Methacrylate Sheets. Apr. 10, 1945. Syrup suitable for forming cast sheets between glass plates, comprising methyl methacrylate plus 0.001%–0.015% methacrylic acid. Group 28—83.

Pat. 2,383,069. Polymerization of Ethenoid Monomers. Aug. 21, 1945. Polymerizing an aqueous suspension of a monomeric polymerizable organic liquid compound, with cooling, after initiation of reaction, to prevent agglomeration. Group 28—83.

Pat. 2,418,828. Polymerization of Methyl Methacrylate. Apr. 15, 1947. Process for minimising discoloring and unmolding tendencies of polymerised methacrylic esters by synthesising from emulsion, containing benzoyl peroxide, prepared at low temperature and then heating rapidly to elevated temperature to polymerise. Group 28—83.

Pat. 2,450,000. Emulsion Polymerization of Methyl Methacrylate. Sept. 28, 1948. Forming a dispersion of MMA, a vinyl compound and an alkane or hydroxyalkane thiol, and maintaining the dispersion until polymerization occurs. Group 28—83.

Pat. 2,462,895. Preparation of Modified Polymeric Methyl Methacrylate. Mar. 1, 1949. Treating a suspension of polymer with an aliphatic mercaptan to improve heat resistance of the polymer. Group 28—83.

Pat. 2,576,712. Polymerization of Liquid Polymerizable Organic Compounds in Elongated Shapes. Nov. 27, 1951. The process of polymerizing a liquid polymerizable organic compound (e. g., methyl methacrylate) in the form of a rod by filling a vertically positioned, elongated cylindrical casing of a substantially unoriented synthetic linear polyamide and polymerising the liquid monomeric compound while maintaining the casing in a vertical position in a gaseous medium. Group 28—83.

SCHEDULE XXXII (4 patents)

Licenses will be granted under the following patent to make, use, and sell tetrafluoroethylene.

Pat. 2,551,573. Pyrolysis of Chloro-Fluoro Alkanes. May 8, 1951. Pyrolyzing at 600°–1000° C. a fluorochloroalkane of from 1 to 3 carbon atoms containing at least one hydrogen atom and in which each carbon carrying a fluorine atom also carries at least one other halogen atom which may be chlorine or fluorine. Compounds of the formula $H(CF_2)_nCl$ in which n is 3 to 14 are also claimed. Group 28—89.

Licenses will be granted under the following patent to make, use, and sell textile treating compositions.

Pat. 2,318,429. Aqueous Dispersion of Polymerised Alkyl Methacrylate and Method of Preparing Same. May 4, 1943. Preparation of aqueous dispersions of polyalkyl methacrylates by polymerization of the monomer in an emulsion made with partially saponified polyvinyl acetate. Group 22—31—54.

Licenses will be granted under the following patent to make, use, and sell wettable sulfur compositions.

Pat. 2,161,462. Composition of Matter. June 6, 1939. A free flowing dispersible powder for use in preparing horticultural sprays comprising a finely divided water insoluble active solid intimately mixed with an aliphatic alcohol containing from 8 to 14 carbon atoms. Group 28—89.

Licenses will be granted under the following patent to make, use, and sell adhesives.

Pat. 2,273,040. Chemical Process and Product. Feb. 17, 1942. A complex compound of the Werner type in which a trivalent nuclear chromium atom is coordinated with an acyclic carboxylic acido group having at least 10 carbon atoms. Group 28—99.

SCHEDULE XXXIII (3 patents)

Licenses will be granted under these patents to make, use, and sell butyl methacrylate, methyl methacrylate, and methacrylic acid.

Pat. 2,204,517. Low Molecular Weight Methacrylic Acid Ester Polymers. June 11, 1940. Polymerizing butyl methacrylate in solvent naphtha at temperature above 100° C. with catalyst of benzoyl peroxide. Group 28—83.

Pat. 2,416,756. Continuous Production of Esters of Methacrylic Acid. Mar. 4, 1947. Continuous preparation of esters of alpha-methacrylic acids from an alcohol, water and the reaction product of acetone cyanhydrin and oleum involving distillation to remove a part of the desired ester as product and the remainder as an alcohol azeotrope which is recycled. Group 28—83.

Pat. 2,465,991. Purification of Polymerizable Esters. Apr. 5, 1949. Purifying an acrylic ester by mixing into a reaction mixture of the ester and a solvent, an alkali metal hydroxide and sucrose, glucose, or urea; allowing mixture to stratify, and decanting. Group 28—83.

SCHEDULE XXXIV (2 patents)

Licenses will be granted under these patents to make, use, and sell purified ethylene.

Pat. 2,351,167. Removal of Oxygen From Normally Gaseous Olefins. June 13, 1944. Removing O_2 from normally gaseous olefins by passing the vapors through vessels containing reduced copper oxide. Catalyst may be Cu, Co, Pt, or their reduced oxides. Group 28—86.

Pat. 2,511,453. Catalyst and Process for Carrying Out Hydrogenation Reactions. June 13, 1950. Selective hydrogenation of acetylene in a gas mixture of acetylene, a lower olefin, and H_2 by passing the mixture over a sulfided reduced nickel oxide catalyst. Group 28—86.

SCHEDULE XXXV (2 patents)

Licenses will be granted under these patents to make, use, and sell polytetrafluoroethylene granular powder.

Pat. 2,230,654. Tetrafluoroethylene Polymers. Feb. 4, 1941. Polymerized tetrafluoroethylene and process of polymerizing which comprises subjecting it to superatmospheric pressure. Group 28—83.

Pat. 2,393,967. Process for Polymerizing Tetrafluoroethylene. Feb. 5, 1946. A process comprising contacting tetrafluoroethylene with water at 0°–200° C. and 20–200 atm. in the presence of ammonium persulfate. Group 28—83.

Patents Removed from Register

Pat. 2,387,846. Lamp Changer. This patent, which was placed on the Register by Leslie Hays and listed in the *Register* section of the OFFICIAL GAZETTE, May 16, 1950, with the Reg. No. 35,311, is hereby withdrawn.

Pat. 2,605,726. Means for Sewing Snap Fastener Tape.

Pat. 2,613,835. Machine for Attaching Snap Fasteners to Tape and the Like.

These two patents, which were placed on the Register by Talon, Inc., and listed in the *Register* section of the OFFICIAL GAZETTE, Aug. 11, 1953, with the Reg. Nos. 51,398 and 51,399 respectively, are hereby withdrawn.

Correction

Pat. 2,328,184, included in the list of patents placed on the Register by Talon, Inc., and published in the *Register* section of the OFFICIAL GAZETTE, Aug. 11, 1953, with Reg. No. 51,392, should read Pat. 2,328,181. Garment Construction.

TRADE-MARKS

OFFICIAL GAZETTE, OCTOBER 20, 1953

[VOL. 675. No. 3]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 603,982. Bolta Products Sales, Inc., Lawrence, Mass. Filed Sept. 26, 1950.

BOLTRON

For Sheets of Plastic Synthetic Resin in Various Colors, and With Various Surface Finishes Including Finishes Simulating Grained Leather and Smooth Finishes, Possessing Properties of Both Synthetic Rubber and Plastic Enabling Them To Be Sheared, Stamped, Drilled, Riveted, and Sewed, Suitable for Use for Decorative Purposes, Panels, Luggage, Furniture, and Stair Tread and Hall Coverings, and Capable When in Plain Finishes of Being Printed To Produce Maps and the Like, and Also Capable of Being Molded by Pressure Into Form Retaining Shapes.

Claims use since July 11, 1950.

Ser. No. 603,983. Bolta Products Sales, Inc., Lawrence, Mass. Filed Sept. 26, 1950.

BOLTARON

For Sheets of Plastic Synthetic Resin in Various Colors, and With Various Surface Finishes Including Finishes Simulating Grained Leather and Smooth Finishes, Possessing Properties of Both Synthetic Rubber and Plastic Enabling Them To Be Sheared, Stamped, Drilled, Riveted, and Sewed, Suitable for Use for Decorative Purposes, Panels, Luggage, Furniture, and Stair Tread and Hall Coverings, and Capable When in Plain Finishes of Being Printed To Produce Maps and the Like, and Also Capable of Being Molded by Pressure Into Form Retaining Shapes.

Claims use since July 11, 1950.

Ser. No. 621,127. Barrow, Hepburn & Gale Limited, London, England. Filed Nov. 13, 1951.

BERMOX

Applicant claims ownership of British Registration No. 442,138, dated Oct. 30, 1923.

For Tanned and Untanned and Dressed and Undressed Leather and Skins in the Piece.

Ser. No. 626,507. Germain's, Inc., Los Angeles, Calif. Filed Mar. 15, 1952.

AMERICA'S FAVORITE FLOWERS

The words "America's," "Favorite," and "Flowers" are disclaimed apart from the mark as shown. The drawing is lined for the colors red and blue.

For Flower Seeds.

Claims use since Feb. 6, 1952.

Ser. No. 634,209. Mundet Cork Corporation, North Bergen, N. J. Filed Aug. 20, 1952. (Sec. 2f.)

MUNDET

Applicant claims ownership of Registration No. 417,415.

For Raw Cork and Cut Cork.

Claims use since in or about 1892.

Ser. No. 636,123. F. C. Donovan, Inc,. Boston, Mass. Filed Oct. 3, 1952.

TWINTAN

For Leather.

Claims use snce Aug. 22, 1952.

Ser. No. 642,333. Wheeler The Dirt Farmer, Seattle, Wash. Filed Feb. 16, 1953.

PLANTER'S HUNCH

Applicant hereby disclaims use of the word "Planter's" apart from its appearance in the mark as a whole.

For Growing Earth Sold in Containers.

Claims use since Nov. 1, 1952.

Ser. No. 644,605. Edgewood Farms, Inc., Marysville, Ohio. Filed Apr. 2, 1953.



For Grass Seed.
Claims use since Feb. 15, 1953.

Ser. No. 644,606. Edgewood Farms, Inc., Marysville, Ohio. Filed Apr. 2, 1953.



For Grass Seed.
Claims use since Feb. 15, 1953.

Ser. No. 645,156. Kennedy Minerals Company, Inc., Los Angeles, Calif. Filed Apr. 13, 1953.

KENCO

For Talc.
Claims use since Oct. 3, 1952.

Ser. No. 645,207. United States Rubber Company, New York, N. Y. Filed Apr. 13, 1953.

PYRATEX

For Synthetic Rubber Latex.
Claims use since Feb. 20, 1953.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 643,498. Morris Moskowitz Corp., New York, N. Y. Filed Mar. 11, 1953.

MM

For Pocketbooks.
Claims use since Jan. 4, 1949.

Ser. No. 643,781. J. Narby, Brooklyn, N. Y. Filed Mar. 17, 1953.

PEDI-BRAND

No claim is made to the word "Brand" apart from the mark as shown.
For Dog Collars, Leads, and Harnesses; Key Cases and Key Holders.
Claims use since Feb. 9, 1953.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 611,444. Mid-West Chemical Co., Kansas City, Kans. Filed Mar. 16, 1951.

Nu-Glo

For Self-Polishing Water Emulsion Wax.
Claims use since Feb. 9, 1951.

Ser. No. 633,886. Success Wax Ltd., Quebec, Quebec, Canada. Filed Aug. 13, 1952.

SUCCESS

Applicant claims ownership of Canadian Registration No. N. S. 13,784, dated Apr. 10, 1940.
For Floor Wax in Liquid or Paste Form.

Ser. No. 636,484. The Livingston Company, Woodbridge, Conn. Filed Oct. 10, 1952.

FLUROCOTE

For Cleaning and Polishing Composition for Automobiles and Furniture.
Claims use since Sept. 24, 1952.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 631,890. B. G. Pratt Company, Hackensack, N. J. Filed June 27, 1952.

SOLFOCIDE

For Concentrated Insecticides and Fungicides in Liquid Form.
Claims use since Dec. 5, 1908.

Ser. No. 633,838. Esso Standard Oil Company, Wilmington, Del., and New York, N. Y. Filed Aug. 13, 1952.

PARALYN

For Highly Aromatic Compounds of Hydrocarbon Origin for General Use in the Industrial Arts.
Claims use since June 6, 1952.

Ser. No. 635,126. Dry Cleaners Research Industries, Inc., Chicago, Ill. Filed Sept. 11, 1952.

FIRMEX

For Pressing Fluid Composition and Preparation for Treating Garments and Fabrics To Renew and Lubricate the Fibers Thereof.
Claims use since August 1952.

Ser. No. 635,129. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Filed Sept. 11, 1952.

Desmophen

Applicant claims ownership of German Registration No. 554,728, dated Feb. 25, 1943.
For Synthetic Plastic Materials in the Form of Granules and Liquids Having Various Uses in the Industrial Arts.

Ser. No. 635,573. Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany, now by change of name Wacker-Chemie G. m. b. H. Filed June 13, 1952.

Dravin

Applicant claims ownership of German Registrations Nos. 235,251, dated Sept. 13, 1919, and 370,481, dated June 17, 1927.
For Aliphatic Esters and Ketones Produced From Acetylene, Dyes, Mordants, Bleaches, Starches, and Starch Preparations.

Ser. No. 635,952. Charabot & Co., Inc., New York, N. Y. Filed Sept. 30, 1952.

INTÉGRALE

For Aldehydes, Alcohols, and Natural and Essential Oils Suitable for Perfuming Purposes.
Claims use since March 1928.

Ser. No. 638,101. The Reardon Company, St. Louis, Mo. Filed Nov. 14, 1952. (Sec. 2f.)

Reardon's

Applicant claims ownership of Registrations Nos. 266,794 and 260,703.
For Cement and Mortar Colors.
Claims use since Nov. 3, 1952, on the goods specified; and was first used on cold water paint about 1883.

Ser. No. 641,565. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Filed Jan. 30, 1953.

KLEEDIS

For Chemical Composition—Namely, an Air Spray To Be Used as a Deodorant and Disinfectant.
Claims use since June 18, 1951.

Ser. No. 645,942. American Plastics Corporation, New York, N. Y. Filed Apr. 27, 1953.

AMEROID

Applicant claims ownership of Registration No. 303,857.
For Synthetic Resinous Materials in Solid and Liquid Form Used in Formulating, Molding, Coating, Impregnating, and Related Arts.
Claims use since on or about Mar. 19, 1951.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 624,845. N. V. Ontwikkelingmaatschappij "Polynorm," Amsterdam and Amersfoort, Netherlands. Filed Feb. 12, 1952.

POLLY

Applicant claims ownership of Dutch Registration No. 110,717, dated Nov. 19, 1951.
For Pre-Fabricated Buildings—Namely, Houses, Garages, Sheds, Storehouses, Halls, Hangars, Lodges, Pavillions, Kiosks, Bungalows, Barns, Cabins, and Barracks.

Ser. No. 633,577. Reginald R. Gaines, doing business as The Rock Wool Insulation Co., Washington, D. C. Filed Aug. 7, 1952.

TEMPRUF

For Building Insulation Consisting of Padding of Mineral Wool Fibers Between Layers of Kraft Paper.
Claims use since July 11, 1952.

Ser. No. 635,212. Alumiclad Doors, Inc., Port Orange, Fla. Filed Sept. 13, 1952.

"ALUMICLAD"

For Building Doors.
Claims use since Aug. 15, 1950.

Ser. No. 635,356. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Filed Sept. 17, 1952.

CHEMOMASK

The word "Mask" is disclaimed apart from the mark as shown.
For Putty-Like, Non-Metallic Composition in Paste Form for Masking Purposes in Metal Joining Operations.
Claims use since Sept. 4, 1952.

Ser. No. 637,275. Harbor Plywood Corporation, Aberdeen, Wash. Filed Oct. 28, 1952. (Sec. 2f.)

PLYCRETE

For Panels for Concrete Form Construction.
Claims use since January 1937.

Ser. No. 640,032. American Gilsonite Company, Salt Lake City, Utah. Filed Dec. 26, 1952.

GILSULATION

Applicant claims ownership of Registrations Nos. 412,820, 144,545, and 574,613.
For Ground, Hard Bitumen Used as Insulating Material.
Claims use since Dec. 11, 1952.

Ser. No. 641,264. Lewis Barry, Upper Darby, Pa. Filed Jan. 26, 1953.

SHO-FLOOR

The word "Floor" is disclaimed apart from the mark as shown.
For Interlocking Rubber Floor Tile.
Claims use since Dec. 1, 1951.

Ser. No. 642,180. Sun Outdoor Products Company, Incorporated, Little Ferry, N. J. Filed Feb. 12, 1953.

TWIN-BRELLA

For Marquees.
Claims use since Feb. 2, 1953.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 596,235. C. A. Norgren Co., Denver, Colo. Filed Apr. 24, 1950.

Norgren

For Fluid Regulating, Relief, Safety, Check, Control, and Needle Valves, and Metallic Hose Fittings.
Claims use since Mar. 1, 1926.

Ser. No. 635,945. Akron Brass Mfg. Company, Inc., Wooster, Ohio. Filed Sept. 30, 1952. (Sec. 2f.)

ROCKERLUG

Applicant claims ownership of Registration No. 293,091.
For Fire Hose Nozzles and Hose Line Couplings.
Claims use since August 1925.

Ser. No. 640,412. Schlage Lock Company, San Francisco, Calif. Filed Jan. 6, 1953. (Sec. 2f.)

SCHLAGE

Applicant claims ownership of Registrations Nos. 205,373, 539,861, and 665,022.
For Door Knobs, Door Knob Dummy Trim, Door-Knob Working Trim, Metal Door Reinforcing Units, Extension Rings for Door Knob Sets, Non-Locking Latch Strikes, Escutcheon Plates, Non-Locking Latches, Non-Locking Latch Bolts, Bell Button Escutcheon Plates, Door Pulls, Door Handles, Hinge Straps, Latch Backset Extension Links, Door Knockers, Push Plates, Door Openers, Door Closers, and Door Checks.
Claims use since Jan. 1, 1924.

Ser. No. 643,432. The National Supply Company, Pittsburgh, Pa. Filed Mar. 10, 1953.

EXTREME LINE

The word "Line" is disclaimed apart from the mark as shown.
For Ferrous Metal, Oil Well Casing, and Oil Well Tubing With Upset Threaded Ends of Very High Tensile Strength Providing a Minimum Outside Diameter With a Maximum Inside Diameter.
Claims use since during the year 1934.

Ser. No. 643,621. Union Carbide and Carbon Corporation, New York, N. Y. Filed Mar. 13, 1953. (Sec. 2f.)

HAYNES

Applicant claims ownership of Registrations Nos. 269,549, 563,125, and 566,221.
For Metal Alloy Tubes and Metal Alloy Pipes.
Claims use since on or about Dec. 3, 1943.

Ser. No. 645,849. Universal Cast Iron Mfg. Co., South Gate, Calif. Filed Apr. 23, 1953.

UNIVCO

For Cast Iron Soil and Drainage Pipe Fittings.
Claims use since Dec. 3, 1949.

Ser. No. 646,006. No-Mortise Hinge Corp., Bound Brook, N. J. Filed Apr. 27, 1953.

FASTINGE

For Door Hinges.
Claims use since Feb. 1, 1953.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 631,971. American Brake Shoe Company, New York, N. Y. Filed June 30, 1952.

CO-MANG

Applicant claims ownership of Registrations Nos. 399,197 and 414,309.
For Bare and Coated Welding Rods.
Claims use since Jan. 15, 1951.

Ser. No. 633,299. Cerium Metals Corporation, New York, N. Y. Filed July 31, 1952.

EXTRALANTH

For Mischmetal Alloy in Ingot, Pellet, and Rod Form.
Claims use since July 21, 1952.

Ser. No. 633,904. Athos Steel Service, Philadelphia, Pa. Filed Aug. 11, 1952.

ATHEX

For Expanded Metal.
Claims use since Nov. 1, 1951.

Ser. No. 641,375. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Filed Jan. 27, 1953.

LOWARC

The word "Arc" is disclaimed apart from the mark as shown.
For Metallic Welding Electrodes.
Claims use since Jan. 14, 1953.

Ser. No. 644,146. Vacuum Metals Corporation, Cambridge, Mass. Filed Mar. 24, 1953.

SEALVAC

For Metal Alloys Particularly Adapted for Forming Seals Between Metals and Insulators Such as Glass.
Claims use since on or about January 1953.

Ser. No. 645,975. Fromson Orban Company, Inc., New York, N. Y. Filed Apr. 27, 1953.

LURIUM

For Aluminum Alloys.
Claims use since Mar. 10, 1953.

CLASS 15

OILS AND GREASES

Ser. No. 596,075. Champion Products, Inc., Stephenville, Tex. Filed Apr. 21, 1950.

QX

For Additive for Motor Oil and Gasoline.
Claims use since Mar. 27, 1946.

Ser. No. 604,225. The Pure Oil Company, Chicago, Ill. Filed Sept. 29, 1950. (Sec. 2f as to "Pure.")

Pure-sure

No claim is made to the word "Sure," except in combination with the word "Pure" as shown in the drawing.
Applicant claims ownership of Registrations Nos. 514,028 and 525,058.
For Dripless Oil (Lubricating and Penetrating Oil), Household Oil, Lubricating Stick Composed of a Mineral Oil Lubricant and Sufficient Wax To Solidify the Composition and Used for Lubricating Car Door Fittings, Automobile Hood Lacings and Other Exposed Frictional Surfaces, Rubber Lubricant, Penetrating Oil, and Gasoline Additive Having Solvent Properties.
Claims use since on or about Sept. 20, 1946.

Ser. No. 636,804. The Reflectone Corporation, Stamford, Conn. Filed Oct. 17, 1952.

TRC

For Lubricating Oils—Namely, Lubricating Oils Mixed With a Propellent for Spray Application.
Claims use since May 19, 1952.

Ser. No. 640,500. Adam Cook's Sons, Inc., Linden, N. J. Filed Jan. 8, 1953. (Sec. 2f as to "Albany.")

ALBANY

ALL-USE

No claim is made to the exclusive use of the term "All-Use" apart from the mark shown on the drawing.
Applicant claims ownership of Registrations Nos. 49,636 and 52,007.
For Lubricating Grease.
Claims use since Dec. 10, 1952, on the mark as shown; and since July 28, 1868, on the word "Albany."

Ser. No. 640,900. Malcolm Bailey, Sr., doing business as Hydra-Lube Oil Sales, Tampa, Fla. Filed Jan. 19, 1953.



For Penetrating Oil.
Claims use since Nov. 6, 1946.

Ser. No. 642,044. Poor & Company, Chicago, Ill. Filed Feb. 10, 1953.

Profilm

For Corrosion Inhibitor—Namely, a Water Based Slushing Compound of the Transient Film Type for Protecting Ferrous Metals During Transit or Storage.
Claims use since Jan. 9, 1953.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 637,436. Gilman Paint and Varnish Company, Chattanooga, Tenn. Filed Oct. 31, 1952. (Sec. 2f as to "Gilman.")



SPRED-EZE

The drawing is lined for red and blue but color is not claimed. No claim is made to the words "Spred-Eze" except in association with the mark as shown. Applicant claims ownership of Registrations Nos. 524,606 and 530,089.

For Interior Wall Paint in Liquid Form.

Claims use since July 31, 1952, on the mark as shown; and since May 1912, on "Gilman."

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 611,218. Bristol Laboratories Inc., New York and Syracuse, N. Y. Filed Mar. 13, 1951.

P. A. M.

For Penicillin Compounds To Combat All Penicillin Sensitive Organisms by Means of Repository Action, and Particularly Streptococci, Staphylococci, and Pneumococci, and in the Treatment of Gonorrhea, Syphilis, and Meningitis.

Claims use since Sept. 15, 1950.

Ser. No. 611,332. Abbott Laboratories, North Chicago, Ill. Filed Mar. 15, 1951. (Sec. 2f as to "Abbott.")



The applicant disclaims the words "Radioactive Pharmaceuticals" and the background configuration generic to radioactive substances except as used in conjunction with the mark. The drawing is lined for yellow and blue. Applicant claims ownership of Registrations Nos. 127,803, 346,126, 371,683, and 540,954.

For Various Radioactive Pharmaceuticals for Diagnostic and Therapeutic Use.

Claims use since Feb. 15, 1951.

Ser. No. 629,244. William S. S. Horton, Lynbrook, N. Y. Filed May 6, 1952.



Applicant disclaims the word "Formula" apart from the mark.

For Salve Against Athlete's Foot.

Claims use since Feb. 1, 1952.

Ser. No. 630,991. Curtis Drug Co., Decatur, Ill. Filed June 10, 1952.



Applicant disclaims the right to any exclusive use of the words "Curtis" and "Pain-Relief" except in the association shown.

For Enteric Coated Tablets for the Relief of Arthritis, Neuralgia, Rheumatism, Lumbago, Sciatica, Neuritis, and Bursitis.

Claims use since July 31, 1950.

Ser. No. 633,348. Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Filed Aug. 1, 1952.

AERODRIN

For Nasal Preparation.

Claims use since June 27, 1952.

Ser. No. 633,727. Kingsland-Ferguson, Inc., Brooklyn, N. Y. Filed Aug. 11, 1952. CERTIFICATION MARK.



The words "A Product of," "Research Developments," and the words "Kingsland" and "Ferguson" are all disclaimed apart from the mark as a whole.

For Fungicides, Acne Preparations, Eye Drops, Ear Drops, Nose Drops, Astringent Compositions, Fluorinating Agents for Treatment of Tooth Decay, Throat Gargles, Glandular Extracts, Analgesics, Anti-Pyritics, Sedative Compositions, Anti-Histamines, Antibiotics, Anti-Neuritics, Anti-Rheumatic Compositions, Appetite Satient Compositions, Laxatives, Cardiovascular Compositions, Blood Pressure Regulative Compositions, Gastric Sedatives and Antacid Preparations, Anti-Diarrhea Preparations, Anti-Pruritic Agents, Suppositories, Urinary Antiseptics, Appetite Increasing Agents, Urinary Sedatives, Diuretics, and Bactericidal Agents.

Claims use since June 2, 1951.

Ser. No. 634,006. G. D. Searle & Co., Skokie, Ill. Filed Aug. 15, 1952.

VALLESTRIL

For Preparation for the Treatment of Endocrine Dysfunction, in Ampule and Tablet Form.

Claims use since Aug. 1, 1952.

Ser. No. 634,179. Abbott Laboratories, North Chicago, Ill. Filed Aug. 20, 1952.

PRO-GEN PLUS

Applicant disclaims the word "Plus" when used apart from the mark as shown. Applicant claims ownership of Registration No. 433,222.

For Feed Supplement for Animal Feeds Consisting of Compositions Containing Arsanilic Acid and Antibiotics and Compositions Containing Derivatives of Arsanilic Acid and Antibiotics.

Claims use since Aug. 11, 1952.

Ser. No. 635,119. The Beverly Corporation, Chicago, Ill. Filed Sept. 11, 1952.



For Vitaminic Preparation for Use as a Food Supplement.

Claims use since Aug. 20, 1951.

Ser. No. 637,060. Eli Lilly and Company, Indianapolis, Ind. Filed Oct. 23, 1952.

MI-CEBRIN

Applicant claims ownership of Registrations Nos. 432,596, 375,557, and others.

For Medicinal Preparation of Vitamin-Mineral Supplements Used for Prophylactic or Therapeutic Treatment of Vitamin and Mineral Deficiencies in the Diet.

Claims use since Feb. 4, 1952.

Ser. No. 639,791. Strong Cobb & Company, Inc., Cleveland, Ohio. Filed Dec. 19, 1952.

TetroPHENObarb

For Sedative Preparation Comprising a Combination of Phenobarbital Sodium and Pentylenetetrazol.

Claims use since on or about Nov. 7, 1952.

Ser. No. 640,650. Societe des Usines Chimiques Rhone-Poulenc, also doing business as Societe Parisienne d'Expansion Chimique S. A., Paris, France. Filed Jan. 12, 1953.

BEMARSAL

Priority under Sec. 44(d). French application filed Oct. 28, 1952, Registration No. 423,113, dated Oct. 28, 1952.

For Medicinal Preparation for the Treatment of Acute and Chronic Intestinal Ambiasis and Inflammatory Trichonomas.

Ser. No. 640,651. Societe des Usines Chimiques Rhone-Poulenc, also doing business as Societe Parisienne d'Expansion Chimique S. A., Paris, France. Filed Jan. 12, 1953.

LARGACTIL

Priority under Sec. 44(d). French application filed July 29, 1952, Registration No. 421,706, dated July 29, 1952.

For Derivative of Phenothiazine Used in Therapeutics as a Medicinal Modifier of the Nervous System, With "Neuroplegic," Vagolytic, and Sympatholytic Effects, and as a Sedative, Anti-Emetic Potentialiser of the Action of Numerous Medicinal Agents.

Ser. No. 641,024. Duke Laboratories, Inc., Stamford, Conn. Filed Jan. 21, 1953.

EUCERIN

Applicant claims ownership of Registrations Nos. 292,346 and 268,057.

For Base for Ointments.

Claims use since Sept. 22, 1931.

Ser. No. 642,247. West Coast Chemicals and Solvents Corporation, also doing business as Western Feed Supplement Co., Culver City, Calif. Filed Feb. 13, 1953.

FORTISOL

For Liquid Poultry Feed Fortifier and Conditioner Containing Vitamins and Minerals.

Claims use since Jan. 23, 1953.

Ser. No. 643,102. Horlicks Limited, Slough, England. Filed Mar. 4, 1953.



Applicant claims ownership of British Registration No. 657,021, dated Mar. 4, 1947.

For Medicinal Preparations for Treatment of Acidity, Colds, Headache, Neuralgia, and Indigestion.

Ser. No. 645,030. George A. Breon & Company, New York, N. Y. Filed Apr. 10, 1953.

EL-ACORTO

Applicant claims ownership of Registration No. 570,418.

For Adrenocorticotropic Hormone Preparation.

Claims use since Jan. 30, 1953.

Ser. No. 645,439. Sleep-Eze Co. Inc., Long Beach, Calif. Filed Apr. 16, 1953.

Head-Eze

Applicant claims ownership of Registration No. 541,612.
For Medicinal Preparation in Tablet Form for Relief of Pain Caused by Headaches, Minor Neuralgia, Tooth Extractions, and the Like.
Claims use since Feb. 24, 1953.

Ser. No. 645,582. E. S. Miller Laboratories, Inc., Los Angeles, Calif. Filed Apr. 20, 1953.

TOLAGESIC

For Analgesic Anti-Pyretic and Anti-Spasmodic Preparation.
Claims use since Mar. 16, 1953.

Ser. No. 645,696. Chicago Pharmacal Company, Chicago, Ill. Filed Apr. 22, 1953.

COLSALIDE

For Medicinal Preparation in Tablet Form for Treatment of Gout and Rheumatic Conditions.
Claims use since Apr. 20, 1951.

Ser. No. 645,720. Fred S. Malcolm, doing business under the name and style of Bryn Mawr Laboratories, Bryn Mawr, Pa. Filed Apr. 22, 1953.

CALFLO

For Medicinal Preparations for External Application to the Skin.
Claims use since Mar. 20, 1953.

Ser. No. 645,721. Fred S. Malcolm, doing business under the name and style of Bryn Mawr Laboratories, Bryn Mawr, Pa. Filed Apr. 22, 1953.

CALFOAM

For Medicinal Preparations for External Application to the Skin.
Claims use since Mar. 20, 1953.

Ser. No. 645,765. Allied Laboratories, Inc., Kansas City, Mo. Filed Apr. 23, 1953.

VETATYCIN

For Antibiotic Preparation for Veterinary Use.
Claims use since Dec. 30, 1952.

Ser. No. 646,092. Abbott Laboratories, North Chicago, Ill. Filed Apr. 29, 1953.

QUERTINE

For Medicinal Preparation Containing Quercetin for Correction of Capillary Abnormality.
Claims use since Apr. 17, 1953.

Ser. No. 646,524. Ciba Pharmaceutical Products, Inc., Summit, N. J. Filed May 6, 1953.

SERPASIL

For Sedative, Hypotensive, and Spasmolytic Agent Marketed in Forms Suitable for Oral, Parenteral, and Rectal Administration.
Claims use since Mar. 17, 1953.

Ser. No. 646,640. Abbott Laboratories, North Chicago, Ill. Filed May 8, 1953.

GERILETS

For Composition Containing d-Desoxyephedrine Hydrochloride and Vitamins Prepared for Use as a Cerebral Stimulant and Source of Vitamins.
Claims use since Dec. 16, 1952.

CLASS 19

VEHICLES

Ser. No. 629,517. Robray Mfg. Co., Chicago, Ill. Filed May 10, 1952.

Travel-Tray

Applicant makes no claim to the word "Tray" alone.
For Receptacles Adapted To Be Attached Beneath the Dashboard of an Automobile and to Swing Out To Provide a Desk, Table or Holder for Use by the Occupants of the Automobile.
Claims use since June 1, 1951.

Ser. No. 631,206. Empresa Nacional de Autocamiones S. A., Madrid, Spain. Filed June 14, 1952.

Pegaso

Applicant claims ownership of Spanish Registration No. 204,658, dated Nov. 6, 1947.
For Automobiles and Trucks.

Ser. No. 638,462. Air Associates, Inc., Teterboro, N. J. Filed Nov. 22, 1952.

HI-G

For Passenger Safety Belts for Use in Automobiles.
Claims use since July 25, 1951.

Ser. No. 644,015. The De Havilland Aircraft Company Limited, Hatfield, England. Filed Mar. 23, 1953.

DE HAVILLAND DOVE

The word "De Havilland" is disclaimed except as part of the mark. Applicant claims ownership of British Registration No. B650,379, dated July 31, 1946.
For Airplanes and Structural Parts Thereof.

Ser. No. 646,030. Western Auto Supply Company, Kansas City, Mo. Filed Apr. 27, 1953.

WIZARD

For Automobile Seat Covers, Automobile Arm Rest Covers, and Baby Seats for Automobiles.
Claims use since Mar. 19, 1953.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 612,358. Sel-Set Company, Salem and West Salem, Oreg. Filed Apr. 6, 1951.

Sel-Set

The word "Set" is disclaimed apart from the mark.
For Electrical Controller Apparatus for the Starting, Stopping, Reversing, and Speed Regulation of Electrically Actuated Motors.
Claims use since May 18, 1949.

Ser. No. 627,331. Geo. A. Fox Products Co., Inc., Kansas City, Mo. Filed Mar. 31, 1952.

HUSKIES

For Machines Employing Electric Light Bulbs for Warming Chocolate for Dipping Ice Cream in Cones.
Claims use since July 1, 1951.

Ser. No. 631,911. The Electric Sprayit Company, Sheboygan, Wis. Filed June 7, 1952. (Sec. 2f.)

SPRAYIT

Applicant claims ownership of Registration No. 236,705.
For Portable Hand-Operated Electric Sprayers and Dusters for Dispensing Paints, Insecticides, and the Like.
Claims use since June 15, 1927.

Ser. No. 637,734. Transformer Technicians Inc., Chicago, Ill. Filed Nov. 6, 1952.

TTI

For Electric Transformers and Chokes.
Claims use since Oct. 2, 1951.

Ser. No. 638,172. Westinghouse Electric Corporation, East Pittsburgh, Pa., and East Springfield, Ohio. Filed Nov. 15, 1952.

Debonaire

Applicant claims ownership of Registration No. 290,616.
For Electric Fans.
Claims use since on or about Jan. 2, 1952, as shown; and since on or about Jan. 17, 1931, in a different form.

Ser. No. 639,923. Electrical Fittings Corporation, Woodside, N. Y. Filed Dec. 23, 1952.

Elcor

For Electrical Wiring Supplies and Accessories Therefor—Namely, Entrance Fittings for Rigid Conduit, Such as, Entrance Caps, Entrance L's, Capped Elbows and End Fittings; Rigid Conduit Fittings, Such as Three-Piece Couplings, Threadless Connectors, Threadless Couplings, 90° Bends, Straps, Spacers, Nipples, Locknuts, Bushings, Grounding Bushings, Capped Bushings and Reducing Bushings; Reducing Washers; Knockout Seals; Combination Couplings for Coupling Rigid Conduit to Flexible Conduit; Bushing Pennies; Insulating Bushings and Covers Therefor; Fittings for Electrical Metallic Tubing, Such as, Connectors, Couplings, 90° Connectors, Split Adapters, Entrance Caps, Combination Couplings for Coupling Electrical Metallic Tubing to Flexible Conduit, Spacers, Straps, Set Screw Connectors, Set Screw Fittings, and Set Screw Couplings; Electrical Metallic Tubing Benders; Cable Connectors; All Purpose Connectors Adaptable for Use Either With Non-Metallic, Service Entrance, and Armored Cables and/or Flexible Conduit, Such as, Straight Clamp Connectors, Duplex Squeeze Connectors, and 90° Angle Connectors; Connectors for Armored Cable and Flexible Conduit, Such as, Set Screw Type Connectors, Hinge Type Connectors, Clamp Type Connectors, Squeeze Type Connectors, Angle Connectors, Duplex Set Screw Connectors, Duplex Squeeze Type Connectors, 45° and 90° Two-Piece Connectors, and 90° Three-Piece Connectors; Clamp Connectors; Straight Box Connectors; Connectors for Non-Metallic and Entrance Cables, Such as, Hinge Type Connectors, Two Screw Type Clamp Connectors, Duplex Squeeze Type Connectors, and Three-Piece 90° Connectors; Service Entrance Cable Fittings, Such as, Hinge Type Connectors, Two-Screw Type Clamp Connectors, Duplex Squeeze Type Connectors, Three-Piece 90° Connectors, Straps, Sill Plates, Flange Type Entrance Heads, Entrance Caps, Midget Entrance Caps, and Watertight Connectors; U Straps; Armored Cable Clips; Straps for Armored Cable and Flexible Conduit; Straps for Non-Metallic Cable; Ground Fittings; Ground Fittings for Bare Ground Wire; Ground Fittings for Bare Armored Ground Wire, and Ground Fittings for Rigid Conduit; Ground Straps; Fixture Fittings, Such as, Wall Plates, Fixture Studs, Boltless Type Studs, Fixture Extensions, Fixture Nuts, Box Covers, and Oil Burner Switch Plates; Conduit Nipples; Conduit Elbows; Conduit Couplings, and Goose Necks.
Claims use since May 1935.

Ser. No. 643,952. Globe-Union Inc., Milwaukee, Wis. Filed Mar. 20, 1953.

Chromo-Plastic

For Storage Batteries.
Claims use since Dec. 8, 1952.

Ser. No. 644,226. Electronic Fabricators, Inc., New York, N. Y. Filed Mar. 26, 1953.

EFCON

For Condensers Used in Conjunction With All Types of Electronic Equipment.
Claims use since Dec. 11, 1952.

Ser. No. 644,277. Bulova Watch Company, Inc., New York, N. Y. Filed Mar. 27, 1953. (Sec. 2f.)

BULOVA

Applicant claims ownership of Registrations Nos. 184,904, 226,889, and others.
For Clock Radios.
Claims use since Jan. 15, 1932.

Ser. No. 644,579. Venus Chemical Company, Inc., New York, N. Y. Filed Apr. 1, 1953.

ELIMSTAT

For Resinous Surfacing Material for Rendering Floors Conductive of Electricity.
Claims use since Feb. 18, 1953.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 631,940. Nancy Ann Storybook Dolls, Inc., San Francisco, Calif. Filed June 28, 1952.

Nancy Ann

For Dolls.
Claims use since February 1937.

Ser. No. 639,353. Wen-Mac Corporation, Beverly Hills, Calif. Filed Dec. 11, 1952.



The designations "V" and ".049" are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 546,137.
For Internal Combustion Engines, and Parts Therefor, for Use in Toy Model Vehicles.
Claims use since Oct. 6, 1952.

Ser. No. 640,512. Grants Pass Sporting Goods, Grants Pass, Oreg. Filed Jan. 8, 1953.



No claim is made to "Grants Pass" apart from the mark as shown on the drawing.
For Fishing Rods, Fishing Lines, Fishhooks, Creels, Artificial Baits, Basket Balls, Basket Ball Hoops, Basket Ball Nets, Footballs, Archery Sets, Dolls, Wheeled Pull Toys, Wheeled Toy Automobiles, Airplanes, and Covered Wagons, and Toy Boats Made of Wood and Plastic.
Claims use since Feb. 1, 1952.

Ser. No. 640,632. Margaret Hockaday, New York, N. Y. Filed Jan. 12, 1953.

YUM YUM

For Dolls.
Claims use since May 10, 1952.

Ser. No. 645,218. Alexander Doll Company, Inc., doing business under the name "Madame Alexander," New York, N. Y. Filed Apr. 14, 1953.

"Winnie Walker"

The mark does not refer to a particular living individual. No claim is made to the word "Walker" apart from the mark shown in the drawing.
For Dolls.
Claims use since Apr. 1, 1953.

Ser. No. 646,389. Jesse Gordon, New York, N. Y. Filed May 4, 1953.

WINNIE THE GOOSE

Applicant disclaims the words "The Goose" apart from the mark as a whole.
For Stuffed, Plastic, and Inflated Toy Geese.
Claims use since Apr. 10, 1953.

Ser. No. 646,671. Jaymar Specialty Company, New York, N. Y. Filed May 8, 1953.

REX MARS

The name "Rex Mars" is fictional.
For Jigsaw Puzzles and Cardboard Pushout Toys.
Claims use since Nov. 27, 1951.

Ser. No. 650,700. G., H. & E. Freydberg, Inc., New York, N. Y. Filed July 23, 1953.

Mary Jane

The name is fictitious and fanciful. Applicant claims ownership of Registration No. 444,763.
For Dolls.
Claims use since October 1947.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 606,376. Gerotor May Corporation, Baltimore, Md. Filed Nov. 14, 1950.



For Compressed Air Operated Material Agitating Apparatus for Storage Bins and Hoppers, and Electrical-Compressed Air Control System and Apparatus Therefor Comprising Valves, Conduits, Pressure Sensitive Diaphragms, and Switch.
Claims use since June 1950.

Ser. No. 607,586. Gerotor May Corporation, Baltimore, Md. Filed Dec. 12, 1950.

PNEUBIN

For Compressed Air Operated Material Agitating Apparatus for Storage Bins and Hoppers, and Electrical-Compressed Air Control System and Apparatus Therefor Comprising Valves, Conduits, Pressure Sensitive Diaphragms, and Switch.
Claims use since October 1950.

Ser. No. 612,307. Carrier Engineering Company Limited, London, England. Filed Apr. 6, 1951.

DOLPHIN

Applicant claims ownership of British Registration No. B680,687, dated June 30, 1949.
For Machine for Cleaning, Rust-Proofing, Priming, and Painting Sheet Metal Articles Such as Vehicle Bodies and Chassis by Means of Spraying, Dipping and/or Flow Coating.

Ser. No. 627,367. Max Bayerdorfer, doing business as Numberall Stamp & Tool Co., Huguenot Park, Staten Island, N. Y. Filed Mar. 7, 1952. (Sec. 2f.)



The circular outline design shown in the drawing is disclaimed apart from its use with this trade-mark.
For Metal Hand Stamp.
Claims use since May 1930.

Ser. No. 630,459. Turbine Equipment Company, New York, N. Y. Filed May 28, 1952.

TECO

For Automatic Metal Chip Handling Systems, Comprising Feeder, Crusher, Conveyor, and Extractor and Associated Parts for Salvaging Metal.
Claims use since Mar. 14, 1952.

Ser. No. 634,965. Diamond Calk Horseshoe Co., Duluth, Minn. Filed Sept. 8, 1952.

DIAMALLOY

Applicant claims ownership of Registration No. 401,456.
For Tinners' Snips, Heavy Duty Nippers, and Carpenters' Nippers.
Claims use since the latter part of 1931.

Ser. No. 639,746. Dapag (1943) Limited, London, England. Filed Dec. 19, 1952.

Langapres

Applicant claims ownership of British Registration No. 529,018, dated Feb. 1, 1932.
For Overprinting, Hand-Driven Machines for Printing Direct on Cards, Box Ends, Wood, Collars, Tags, and the Like.

Ser. No. 642,722. Albion Motors Limited, Scotstoun, Glasgow, Scotland. Filed Feb. 25, 1953.

Albion

Applicant claims ownership of British and Northern Irish Registrations Nos. 696,859 and 696,860, dated Mar. 16, 1951.
For Internal Combustion Engines for All Purposes.

Ser. No. 644,172. Goerlich's, Toledo, Ohio. Filed Mar. 25, 1953.

Dyna-Pak

Applicant claims ownership of Registration No. 551,617.
For Mufflers for Use With Internal Combustion Engines and Extensions for Tail Pipes.
Claims use since Feb. 27, 1953.

Ser. No. 646,145. R. G. Letourneau, Inc., Peoria, Ill., Longview, Tex., Vicksburg, Miss., and Toccoa, Ga. Filed Apr. 29, 1953.

TOURNATRACTOR

Applicant claims ownership of Registrations Nos. 323,683, 341,554, and others.
For Wheel Tractors Adapted for Pushing and Towing Operations.
Claims use since June 8, 1951.

Ser. No. 646,190. Wilson Jones Company, Chicago, Ill. Filed Apr. 29, 1953.

Buddy

For Stapling Machines.
Claims use since Oct. 10, 1952.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 627,789. Henry Sandos et Fils, La Chaux-de-Fonds, Switzerland. Filed Apr. 1, 1952.



Sandoz

The surname "Sandos" is hereby disclaimed apart from the trade-mark as shown. Applicant claims ownership of Swiss Registration No. 140,728, dated Dec. 26, 1951.

For Horological Instruments—Namely, Watches, Watch Bracelets, Pocket Watches, Parts of Watches, Movements, Dials, Containers of Watches, Pendulums, and Watch Casings.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 636,584. Carroll F. Chatham, doing business under the name Chatham Research Laboratories, San Francisco, Calif. Filed Oct. 14, 1952. (Sec. 2f as to "Chatham" and "Emeralds.")

Chatham Cultured Emeralds

Applicant claims ownership of Registration No. 560,523.
For Unmounted Gems—Namely, Emerald Crystals Grown According to a Special Process.
Claims use since on or about Mar. 15, 1952, as to "Cultured"; and since during the year 1940, as to "Chatham" and "Emeralds."

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 642,969. Clarence J. Healy, South St. Paul, Minn. Filed Mar. 2, 1953.

NICK NACK ITIAL

No registration rights are sought in the words "Nick-Nack" apart from the mark, as shown.
For Wall Shelves.
Claims use since Feb. 13, 1953.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 632,278. United States Rubber Company, New York, N. Y. Filed July 8, 1952. (Sec. 2f.)

TEST

SPECIAL

Applicant claims ownership of Registration No. 73,024.
For Belting Made of Rubber and Fabric.
Claims use since 1919.

Ser. No. 639,146. Sloan Valve Company, Chicago, Ill. Filed Dec. 6, 1952. (Sec. 2f.)

SLOAN

Applicant claims ownership of Registration No. 576,222.
For Articles Made of a Flexible Material Having Properties of Rubber—Namely, Double Molded Cups, Relief Valve Seats, Cover Nut Gaskets, Cover Gaskets, Segment Diaphragms, Vacuum Breakers, Molded Discs, and Piston Assemblies Comprised of Sealing Members, Piston Seat, Auxiliary Valve Seat, and Packing Member.
Claims use since 1906.

Ser. No. 646,636. United States Rubber Company, New York, N. Y. Filed May 7, 1953.

FIRO

Applicant claims ownership of Registration No. 85,828.
For Hose Made of Rubber or Rubber and Fabric.
Claims use since Mar. 5, 1953.

Ser. No. 647,841. The General Tire & Rubber Company, Akron, Ohio. Filed May 28, 1953.

NYGEN

For Pneumatic Tires.
Claims use since May 8, 1953.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 645,436. Seven-Eleven Records, Inc., Beverly Hills, Calif. Filed Apr. 16, 1953.

7-11

For Mechanically Grooved Phonograph Records.
Claims use since Feb. 26, 1953.

Ser. No. 645,789. Excelsior Accordions, Inc., New York, N. Y. Filed Apr. 23, 1953.

EXCELSIOLA

Applicant claims ownership of Registrations Nos. 318,244, 318,245, and 552,272.
For Accordions.
Claims use since March 1939.

Ser. No. 646,111. Columbia Records Inc., Bridgeport, Conn. Filed Apr. 29, 1953.

Old Masters

Applicant claims ownership of Registrations Nos. 349,707, 388,352, and others.
For Grooved Phonograph Records.
Claims use since Apr. 7, 1953.

Ser. No. 646,232. Prom Record Co., Newark, N. J. Filed Apr. 30, 1953.

PROMENADE

Applicant claims ownership of Registration No. 565,743.
For Mechanically Grooved Phonograph Records.
Claims use since Apr. 14, 1953.

Ser. No. 646,779. Don Large Enterprises Inc., Detroit, Mich. Filed May 11, 1953.

HORIZON

No claim is made to the words "Div. of Don Large Enterprises Inc., Detroit, Mich."
For Mechanically Grooved Phonograph Records.
Claims use since Apr. 20, 1953.

Ser. No. 646,850. Columbia Broadcasting System, Inc., New York, N. Y. Filed May 12, 1953.

360

For Phonographs and Parts Thereof.
Claims use since Dec. 24, 1952.

CLASS 39

CLOTHING

Ser. No. 564,697. Ro-Search, Inc., Waynesville, N. C. Filed Aug. 26, 1948.

SLACKTATOR

For Shoes, Slippers, Sandals for Women and Girls.
Claims use since June 1948.

Ser. No. 609,730. Lee-Wald Garment Company, Kansas City, Mo. Filed Feb. 7, 1951.

Jackie tot



No claim is made to the word "Tot" apart from the mark in its entirety. The representation of the boy is fanciful. Applicant claims ownership of Registration No. 297,542.
For Boys' Garments—Namely, Outer Shorts, Suits, Bib-Pants, Jackets, and Slacks.
Claims use since Sept. 1, 1938.

Ser. No. 635,092. May Hosiery Mills, Nashville, Tenn. Filed Sept. 10, 1952.

MERRYKNIT

For Men's, Women's, and Children's Hosiery, Knitted Underwear, Knitted T Shirts, Sweat Shirts, and Girls' Midriffs.
Claims use since Apr. 15, 1952.

Ser. No. 636,932. Vivien Kellems, Stonington, Conn. Filed Oct. 21, 1952.

Vivien Kellems Original

Applicant disclaims the exclusive right to the use of the word "Original."
For Women's Dresses.
Claims use since Sept. 13, 1952.

Ser. No. 638,734. Morton's, Washington, D. C. Filed Nov. 28, 1952.

Empress

For Hosiery for Women and Girls.
Claims use since on or about July 1, 1952.

Ser. No. 640,425. Ballston-Stillwater Knitting Company, Inc., Ballston Spa, N. Y. Filed Jan. 7, 1953.



For Men's Hosiery and More Particularly Socks of Cotton, Wool, and Mixtures Thereof; Wool and Wool Mixed Hunting Socks, Athletic Socks, and Slipper Socks.
Claims use since February 1952.

Ser. No. 646,532. David Crystal, Inc., New York, N. Y. Filed May 6, 1953.

BALMAHA

For Ladies' and Misses' Dresses, Skirts, Coats, Dress and Jacket Ensembles, Suits, Blouses, Slacks, Coveralls, and Jumpers.
Claims use since March 1953.

Ser. No. 647,004. Jacques Heim, Paris, France. Filed May 14, 1953.

JACQUES HEIM

For Ladies' and Misses' Coats, Suits, Dresses, Outer Skirts, Jackets, Blouses, Stockings, Gloves of Leather and Fabric, Outer Belts, Hats, Slacks, and Negligees.
Claims use since Aug. 1, 1944; and use in commerce between foreign nations and the United States since Aug. 7, 1944.

Ser. No. 647,111. Summit Sportwear Co., Boston, Mass. Filed May 15, 1953.

COUNTRY WALKER

For Ladies' and Misses' Skirts.
Claims use since Feb. 16, 1953.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 646,863. H. Goodman & Sons, Inc., Jersey City, N. J., and New York, N. Y. Filed May 12, 1953.

Floral Bouquet

For Barrettes and Hair Combs.
Claims use since Mar. 26, 1953.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 633,396. United Elastic Corporation, Easthampton, Mass. Filed Aug. 1, 1952.



The figure shown on the drawing is fanciful. Applicant claims ownership of Registration No. 364,016.
For Narrow Elastic Webbing.
Claims use since May 26, 1938.

Ser. No. 644,050. Mooresville Mills, Inc., Mooresville, N. C. Filed Mar. 23, 1953.

Mooralon

Applicant claims ownership of Registrations Nos. 250,287, 437,364, and others.
For Piece Goods Made of Synthetic Fibers.
Claims use since Mar. 6, 1952.

CLASS 43

THREAD AND YARN

Ser. No. 607,986. The Firestone Tire & Rubber Company, Akron, Ohio. Filed Dec. 22, 1950.

Firestone Rib-On

The term "Rib-On" is disclaimed apart from the mark as shown on the drawing.
For Elastic Thread.
Claims use since on or about Oct. 19, 1950.

Ser. No. 647,303. Majestic Rayon Corporation, New York, N. Y. Filed May 19, 1953.

MELOSTRAW

For Synthetic Yarn.
Claims use since on or about Jan. 5, 1953.

Ser. No. 647,601. Collins & Aikman Corporation, Philadelphia, Pa. Filed May 25, 1953.

CANDALON

Applicant claims ownership of Registrations Nos. 275,448, 543,414, and others.
For Yarns of Synthetic Fibers, Cotton Fibers, Animal Fibers, and Mixtures Thereof.
Claims use since June 1950.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 608,572. Sonotone Corporation, Elmsford, N. Y. Filed Jan. 9, 1951.

MOVABLE EAR

Applicant, without waiving any common law rights thereto and solely for the purpose of this registration, disclaims the word "Ear" apart from the mark as shown.
For Hearing-Aid Microphones.
Claims use since Dec. 4, 1950.

Ser. No. 629,578. Master Appliance Manufacturing Co., Racine, Wis. Filed May 12, 1952.

"Sunny"

For Electric Hair Dryers.
Claims use since Oct. 29, 1948.

Ser. No. 634,497. State Dental Technicians, Inc., New York, N. Y., assignor to Austenal Laboratories, Inc., New York, N. Y., a corporation of New York. Filed Aug. 26, 1952.

MICRO-MESH

No claim is made to the word "Mesh" apart from the mark as shown.
For Dentures (Full and Partial), Metal Castings of the Stabilizing Mesh-Work for Such Dentures, and Patterns Made From Volatile Materials for Use in the Making of Such Castings.
Claims use since Oct. 8, 1951.

Ser. No. 642,189. Warren Laboratories, Baltimore, Md. Filed Feb. 12, 1953.

BICAST

For Partial Dentures.
Claims use since Feb. 6, 1953.

Ser. No. 647,586. Becton, Dickinson and Company, Rutherford, N. J. Filed May 25, 1953.

MULTI-VAL

For Hypodermic Syringes.
Claims use since on or about Nov. 15, 1951.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 545,639. Midland Canning Corporation, Billings, Mont., assignor to Big Horn Canning Company, Cowley, Wyo. Filed Dec. 29, 1947. CONCURRENT USE with Reg. No. 211,665 for the area comprising the States of Montana, Idaho, Oregon, Washington, California, and the following named counties in the State of Wyoming, to wit: Park, Big Horn, Washakie, Sheridan, Johnson, and Hot Springs.

OLD Yellowstone

For Canned Foods—Namely, Whole Kernel and Cream Style Sweet Corn, Pumpkin, Pork and Beans, Dill Pickles, Sauerkraut, and Red Chili Beans.
Claims use since 1917.

Ser. No. 563,921. Fisher Flouring Mills Company, Seattle, Wash. Filed Aug. 24, 1948. CONCURRENT USE with Reg. No. 167,627 for the area comprising the States of California, Oregon, Washington, Texas, Louisiana, Mississippi, and Alabama, the territories of Hawaii and Alaska, the dependency of Puerto Rico, and in the export trade to Cuba, Central and South America, the Philippine Islands, the Orient, Great Britain, and the Scandinavian countries.



Applicant claims ownership of Registration No. 167,627.
For Wheat Flour.
Claims use since May 16, 1911.

Ser. No. 593,686. Prince Macaroni Manufacturing Company, doing business under the name of Roman Prince Macaroni Co., Lowell, Mass. Filed Mar. 9, 1950.

Prince



The illustration of the child is fanciful. The drawing is lined for yellow or gold and red. Applicant claims ownership of Registrations Nos. 137,680, 173,780, and 166,674.
For Alimentary Paste Products—Namely, Alimentary Paste for Babies.
Claims use since Dec. 1, 1947.

Ser. No. 600,608. New England Grain Products Co., Yarmouth, Maine. Filed July 13, 1950.



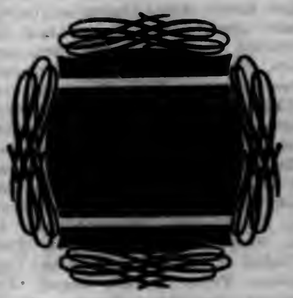
Applicant disclaims the word "Feeds" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 100,284, 100,516, and others.
For Poultry, Dairy, and Stock Feeds.
Claims use since Oct. 3, 1945.

Ser. No. 611,433. Knudsen Creamery Co. of California, Los Angeles, Calif. Filed Mar. 16, 1951.



The drawing is lined for blue and orange. The picture of a girl's head does not represent any particular living individual.
For Dairy Products—Namely, Fluid Milk.
Claims use since Sept. 26, 1941.

Ser. No. 613,100. Charles A. Wilkinson, doing business as Mrs. Kornreich Klein Bakery, Milwaukee, Wis. Filed Apr. 24, 1951.



For Cookies.
Claims use since Mar. 31, 1951.

Ser. No. 614,178. Trudeau Candies, Inc., St. Paul, Minn. Filed May 21, 1951.

MY SWEETIE

For Candy.
Claims use since Apr. 25, 1951.

Ser. No. 614,269. E. L. M. Stores, also doing business as E. L. M. Feed Stores, Greencastle, Pa. Filed May 23, 1951.

E.L.M. FEEDS

The words "Farm Proven Feed" are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 538,148.
For Poultry and Stock Foods.
Claims use since Jan. 10, 1951.

Ser. No. 615,301. Clifford W. White, Louisville, Ky. Filed June 16, 1951.



No registration rights in "Chicken on Call" are disclaimed except as part of the mark as shown.
For Cooked Chicken and Prepared Dinners Delivered in Packages to the Consumer Ready for Use; Each Package Consisting of Chicken, Vegetables, and Bread.
Claims use since May 25, 1951.

Ser. No. 616,153. Allen Foods, Inc., St. Louis, Mo. Filed July 6, 1951.



The drawing is lined for red.
For Canned Vegetables—Namely, Asparagus, Green Beans, Wax Beans, Lima Beans, Red Beets, Brussels Sprouts, Carrots, Corn, Turnip Greens, Mustard Greens, Hominy, Kale, Kraut, Mixed Vegetables (Carrots, Potatoes, Celery, Peas, Green Beans, Corn, Lima Beans), Okra, Onions, Parsnips, Peas, Blackeyed Peas, Green Peppers, Red Peppers, Pimentoes, Potatoes, Pumpkin, Rhubarb, Spinach, Sweet Potatoes, Yams, Tomatoes, Vegetable Salad (Peas, Red Kidney Beans, Green String Beans, Pimentoes, Celery, Carrots, Sweet Pickles); Canned Chinese-Type Foods—Namely, Cantonese Fried Rice, Bean Sprouts, Chicken Chop Suey, Water Chestnuts, Bamboo Shoots, Chow Mein Noodles, Chop Suey Vegetables (Bean Sprouts, Celery, Mushrooms, Pimentoes); Canned Fruits—Namely, Blueberries, Blackberries, Boysenberries, Loganberries, Raspberries, Strawberries, Crabapples, Cherries, Figs, Fruits for Salad (Peaches, Pears, Grapes, Apricots, Pineapple, Cherries), Fruit Cocktail, Grapes, Grapefruit and Orange Sections, Nectarines, Peaches, Pineapple, Pears, Plums, Prune Plums; Canned and Bottled Fruit Juices—Namely, Cherry Juice, Lemon Juice, Lime Juice, Grapefruit Juice, Orange and Grapefruit Juice, Tomato Juice, Peach Nectar, Pear Nectar, Tangerine Juice; Canned and Bottled Sauces and Dressings—Namely, Apple Sauce, Cranberry Sauce, Barbecue Sauce, Chop Suey Sauce, Seafood Cocktail Sauce, Horseradish Flavored Salad Dressing, Hot Dog Sauce, Mayonnaise, Meat Sauce, Red Pepper Sauce, Salad Dressing, Soy Sauce, Steak Sauce, Tartar Sauce, Thousand Island Dressing, Worcestershire Sauce, French Dressing, Tomato Catsup, Mushroom Spaghetti Sauce; Canned Seafoods—Namely, Shrimp, Oysters, Salmon, Tuna; Canned Soups—Namely, Beef Soup, Chicken Broth, Chicken Gumbo Soup, Green Pea Soup, Onion Soup, Tomato Soup; Packaged Prepared Flour—Namely, Hot Roll Mix; Spices and Condiments—Namely, Allspice, Chili Powder, Cinnamon, Cloves, Curry Powder, Ginger, Mace, Mustard, Paprika, Red Pepper, Sage, Turmeric; Miscellaneous Bottled Foods—Namely, Wild Elderberry Jelly, Honey, Horseradish Flavored Chow, Sandwich Spread, Dill Pickles, Pickled Cauliflower, Mustard, Lemon Flavor, Chocolate Syrup, Marshmallow Creme, Maraschino Cherries, Pistachios, Vinegar, Cucumber Pickles, Olives, Plum Pudding, Pickles and Peppers, Table and Cooking Syrups, Butterscotch Syrup; Miscellaneous Canned Foods—Namely, Boned Chicken, Pretzel Bits, Rye and Caraway Sticks, Celery Onion Sticks, Potato Sticks, Mincemeat, Brown Gravy With Sliced Beef, Whole Chicken, Pecan Halves, Popped Pop Corn.
Claims use since Dec. 30, 1947.

Ser. No. 618,125. Plata American Trading Inc., New York, N. Y. Filed Aug. 27, 1951.

VIGOR

For Pure Refined Lard, Prime Steam Lard, Rendered Pork Fat, and Refined Soybean Oil.
Claims use since July 2, 1951.

Ser. No. 626,209. Theo. J. Lapres, Inc., Atlantic City, N. J. Filed Mar. 10, 1952. (Sec. 2f as to "Fralinger's.")

Treat the thrill of TRY Fralinger's

All wording except "Fralinger's" is disclaimed apart from the mark. Applicant claims ownership of Registrations Nos. 172,286 and 266,394.
For Almond Macaroons.
Claims use since Sept. 8, 1951.

Ser. No. 632,365. Filli De Cecco di Filippo, Abruzzi, Italy. Filed July 10, 1952.

F.lli DE CECCO DI FILIPPO FARA S. MARTINO

Applicant disclaims the term "Fara S. Martino" apart from the mark shown. In the trade-mark as shown "Filli De Cecco di Filippo" means sons of Philip De Cecco, while "Fara S. Martino" is the name of a town in the province of Abruzzi, Italy.
For Alimentary Pastes.
Claims use since in the year 1887.

Ser. No. 633,038. Cook Livestock Company, Incorporated, Scottsbluff, Nebr. Filed July 25, 1952.

ALFAMIX

For Livestock Feed Consisting of Alfalfa, Corn, Molasses, and Concentrates.
Claims use since Oct. 1, 1949.

Ser. No. 637,646. Converted Rice, Inc., Houston, Tex. Filed Nov. 5, 1952. (Sec. 2f as to "Converted.")



The mark consists in part of the picture of Frank C. Brown, of Chicago, Illinois, whose consent to such use of his picture is of record. Applicant claims ownership of Registrations Nos. 434,624, 437,176, and 563,449.
For Rice.
Claims use since Jan. 24, 1947.

Ser. No. 639,220. General Foods Corporation, New York, N. Y. Filed Dec. 9, 1952.

POSTUM

Applicant claims ownership of Registrations Nos. 27,402, 52,560, and others.
For Preparation for Making Coffee Substitute.
Claims use since February 1895.

Ser. No. 639,277. Kennedy Candies, Inc., Arlington, Mass. Filed Dec. 10, 1952.

AUNT MARY'S

For Candy.
Claims use since Mar. 25, 1951.

Ser. No. 641,332. Schuckl & Co. Inc., sometimes doing business as Sunnyvale Packing Company, Sunnyvale, Calif. Filed Jan. 26, 1953. (Sec. 2f.)

ELWOOD

Applicant claims ownership of Registration No. 144,330.
For Canned Fruits and Canned Vegetables.
Claims use since Jan. 23, 1920.

Ser. No. 642,197. Chili Products Corporation Ltd., Los Angeles, Calif. Filed Feb. 13, 1953. (Sec. 2f.)

PACKERS SPECIAL

For Chili Powder and Chili Pepper.
Claims use since January 1942.

Ser. No. 643,259. Frederick C. Adams, doing business under the name of Wild Acres Turkey Farm, Steep Falls, Maine. Filed Mar. 6, 1953.

WILD ACRES

For Eviscerated Oven-Ready Stuffed and Unstuffed Turkeys.
Claims use since Nov. 1, 1949.

Ser. No. 643,647. Chili Products Corporation Ltd., Los Angeles, Calif. Filed Mar. 16, 1953.

K SPECIAL

Applicant disclaims the word "Special" apart from the balance of the mark as shown. Applicant claims ownership of Registration No. 230,910.
For Chili Powder.
Claims use since July 31, 1920.

Ser. No. 644,493. Brock & Company, Inc., Philadelphia, Pa. Filed Mar. 31, 1953.

Hunters' Hill

For Chocolate Candy.
Claims use since December 1950.

Ser. No. 644,620. The Kroger Co., Cincinnati, Ohio. Filed Apr. 2, 1953. (Sec. 2f.)

Fres-shore

Applicant claims ownership of Registration No. 392,152.
For Frozen Fresh Fish—Namely, Haddock, Cod, Whiting, Sole, Ocean Perch, Ocean Catfish; Frozen Cooked Fish—Namely, Haddock, Ocean Perch, Cod; Frozen Fresh and Cooked Scallops, Frozen Fresh Shrimp, Fresh Oysters.
Claims use since Nov. 4, 1935.

Ser. No. 644,791. Saticoy Lemon Association, Saticoy, Calif. Filed Apr. 6, 1953.

Montalvo

Applicant claims ownership of Registration No. 330,170.
For Fresh Citrus Fruits.
Claims use since Sept. 20, 1934.

Ser. No. 644,793. Saticoy Lemon Association, Saticoy, Calif. Filed Apr. 6, 1953.

TEPIC

Applicant claims ownership of Registration No. 330,171.
For Fresh Citrus Fruits.
Claims use since Sept. 20, 1934.

Ser. No. 647,790. Edmond Martin, Jr., doing business as Ed Martin Seafood Co., Westwego, La. Filed May 27, 1953.

We-Go

For Frozen Headless Shrimp.
Claims use since 1938.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 631,950. Mildred P. Semple, doing business as Mildred Semple Industries, Wollaston, Quincy, Mass. Filed June 28, 1952.

Mildred Semple's

MAKE-A-PIE SHEET

No claim is made to the words "Make-a-Pie Sheet" apart from the mark shown, for the purposes of this registration; but no common law or other rights are otherwise waived.
For Thin, Plastic Sheet Material, Sold Cut to Size, for Use in the Mixing and Rolling of Pie Dough and the Like.
Claims use since Jan. 3, 1952.

Ser. No. 632,110. Barbara T. Quirk, West Hartford, Conn. Filed July 3, 1952.

caprice

For Small Art Symbols Made of Materials Other Than Precious Metals in the Form of Animals, Fruits, Vegetables, Human Figures, Stars, Balls, Etc. Useful as Decorations for Eyeglasses, Compacts, Cigarette Lighters and Cases, Costumes, and Other Articles of Merchandise Upon Which Such Symbols May Be Placed.
Claims use since June 5, 1952.

Ser. No. 642,800. Leslie A. Calhoun, Minneapolis, Minn. Filed Feb. 26, 1953.

Sacra-Kit

The word "Kit" is disclaimed apart from the trade-mark as shown.
For Sick Call Set for Priests, Containing Crucifix, Ablution Cup, Vigil Lights, and Holy Water Container.
Claims use since Dec. 22, 1952.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 624,720. Pearl M. Simmons, doing business as Ardoll Products, Chicago, Ill. Filed Dec. 4, 1951.

ARDOLL

For Perfume Oil and Sachet Powder.
Claims use since about Sept. 2, 1949.

Ser. No. 633,673. Richard Hudnut, New York, N. Y. Filed Aug. 9, 1952.

PET FRAGRANCE

Registration rights in the word "Fragrance" apart from the mark as shown are disclaimed.
For Perfume.
Claims use since June 23, 1952.

Ser. No. 633,674. Richard Hudnut, New York, N. Y. Filed Aug. 9, 1952.

Smooth Set

Registration rights in the word "Set" apart from the mark as shown are disclaimed.
For Cosmetic Kits Containing One or More of the Following Items: Hand and Body Lotion, Talc Sachet.
Claims use since June 23, 1952.

Ser. No. 638,270. Rayette, Inc., St. Paul, Minn. Filed Nov. 18, 1952.

SEVEN SEAS

Applicant claims ownership of Registration No. 412,996.
For Hair Lotions and Hair Cremes.
Claims use since Oct. 7, 1946.

Ser. No. 640,871. Skin Research, Inc., New York, N. Y. Filed Jan. 16, 1953.

PLACID

For Hand Lotion and Skin Cream.
Claims use since Jan. 8, 1953.

Ser. No. 641,354. Van Brode Milling Co., Inc., Clinton, Mass. Filed Jan. 26, 1953.

CHLORO-SHAVE

The exclusive right to the use of the word "Shave" is disclaimed apart from the mark as shown in the drawing.
For Shaving Lather.
Claims use since November 1952.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 610,702. Lien Chemical Company, Franklin Park, Ill. Filed Mar. 1, 1951.

AUTO-MAGIC

No claim is made to the word "Auto" apart from the mark as shown.
For Liquid Automobile Washing Soap.
Claims use since Apr. 5, 1949.

Ser. No. 610,703. Lien Chemical Company, Franklin Park, Ill. Filed Mar. 1, 1951.

AUTO-MAGIC

No claim is made to the word "Auto" apart from the mark as shown.
For Powdered Automobile Washing Soap.
Claims use since Apr. 5, 1949.

Ser. No. 619,091. S. H. Kress and Company, New York, N. Y. Filed Sept. 21, 1951.

Baby Dot

Applicant claims ownership of Registrations Nos. 300,860, 307,691, and others.
For Soap.
Claims use since July 21, 1937.

Ser. No. 624,546. R. M. Hollingshead Corporation, Camden, N. J. Filed Feb. 5, 1952.

DIP-ZOF

Without waiver of common law rights, the word "Dip" is disclaimed apart from the mark as shown.
For Chemical Compounds for Cleaning Engine and Machinery Parts and for Removing Carbon, Grease, Sludge, Gum, Dye, Stains, Paint, and Lacquer Therefrom.
Claims use since April 1944.

Ser. No. 630,598. Karlsruher Parfumerie- und Toiletteseifenfabrik F. Wolff & Sohn, Gesellschaft mit beschrankter Haftung, Karlsruhe, Baden, Germany. Filed June 2, 1952.

KALODERMA

Applicant claims ownership of German Registration No. 339,528, dated Sept. 29, 1925; and United States Registrations Nos. 276,563 and 308,864.
For Toilet Soap.
Claims use since 1895 in Germany, and use in commerce between Germany and the United States since 1908.

Ser. No. 630,607. Oakite Products, Inc., New York, N. Y. Filed June 2, 1952.

oakite

The drawing is lined for red. Applicant claims ownership of Registrations Nos. 80,287, 127,103, and others.
For General Cleansing and Washing Compound for Personal Use, for Use in the Kitchen and Household Generally, and for Use in the Laundry, Garage, Dairy, and Industrial Plants of All Kinds.
Claims use since May 15, 1952.

Ser. No. 632,472. Finnell System, Incorporated, Elkhart, Ind. Filed July 12, 1952.

FIN-R

For Soap and Scouring Powder.
Claims use since June 13, 1952.

Ser. No. 633,906. Anderson-Peck Enterprises, Cincinnati, Ohio. Filed Aug. 14, 1952.

DOG-GONE CLEAN

The word "Clean" is disclaimed apart from the mark as shown on the drawing.
For Dog Shampoo Soap in Ready Mixed Liquid Form.
Claims use since June 1, 1951.

Ser. No. 634,777. The Davies-Young Soap Company, Dayton, Ohio. Filed Sept. 3, 1952.

D-Y

Applicant claims ownership of Registration No. 291,141.
For Paste Cleaners, Waterless Cleaners, Liquid Cleaners, and Liquid Dry Cleaners, for Hands, Walls, Woodwork, Tile, and the Like.
Claims use since Aug. 15, 1931.

Ser. No. 634,938. Gateway Chemicals, Inc., Chicago, Ill. Filed Sept. 6, 1952.

PREST-O-WASH

The applicant disclaims the term "Wash" apart from the mark as shown.
For Cleaning Compound for Use in Washing Automotive Vehicles.
Claims use since Dec. 18, 1948.

Ser. No. 635,331. Claude E. Strickler, Jr., doing business as Shiloh Manufacturing Company, York, Pa. Filed Sept. 16, 1952.

Gent-L-Kleen

The word "Kleen" so far as it is the phonetic equivalent of the word "Clean" is disclaimed, apart from the mark as shown.

For Waterless Hand Cleansing Preparation.

Claims use since May 5, 1952.

Ser. No. 635,428. Pacific Hygiene Products, Inc., Monrovia, Calif. Filed Sept. 18, 1952.

OVENew

For Alkali Softening and Detergent Composition for Removing Burnt Cooking Grease and the Like.

Claims use since Aug. 15, 1952.

Ser. No. 636,130. Industrial Soap Company, St. Louis, Mo. Filed Oct. 3, 1952. (Sec. 2f.)

BOLIVIAN CLEANSER

No claim is made to the word "Cleanser" apart from the mark as used.

For Cleaning Composition Such as Detergents, Soaps, Etc. for General Household Cleaning Purposes.

Claims use since Jan. 30, 1933.

Ser. No. 636,782. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Filed Oct. 17, 1952.

Warolat

Applicant claims ownership of German Registration No. 619,287, dated Apr. 22, 1952.

For Synthetic Detergents Used in the Production of Various Liquid and Creamy Washing Agents Such as Shampoos, Liquid Soaps, Auto Washes, Bath Foams, and the Like.

Ser. No. 640,150. Fabergé, Inc., New York, N. Y. Filed Dec. 30, 1952.

FABERGÉ

Applicant claims ownership of Registrations Nos. 402,130 and 519,646.

For Soap.

Claims use since September 1951.

Ser. No. 641,662. Apothecaries Hall Company, Waterbury, Conn. Filed Feb. 3, 1953.

DURO-GENT

Applicant claims ownership of Registration No. 575,532.

For Cleaner-Sanitizer for Use by Poultrymen in Cleaning Eggs.

Claims use since Jan. 23, 1953.

Ser. No. 643,993. Wyandotte Chemicals Corporation, Wyandotte, Mich. Filed Mar. 20, 1953.

ALUTONE

For Aluminum Cleaning and Brightening Compound.

Claims use since July 12, 1951.

Ser. No. 644,370. Wyandotte Chemicals Corporation, Wyandotte, Mich. Filed Mar. 27, 1953.

RIDDAX

For Laundry Washing Compound.

Claims use since May 4, 1951.

Ser. No. 645,337. The Procter & Gamble Company, Cincinnati, Ohio. Filed Apr. 15, 1953. (Sec. 2f.)

99 44/100 % PURE

For Sudsing Cleaner, Cleanser, and Detergent.

Claims use since Dec. 21, 1882.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 545,729. Downs, Mohl & Co. (Not Inc.), Chicago, Ill. Filed Dec. 30, 1947. (Classified in Class 101.)

See this serial number in Class 101 for goods and mark.

Claims use since on or about Nov. 15, 1947.

Ser. No. 640,792. John S. Grassfield, doing business as Grassfield Jefferson Cafeteria, Bloomington, Ill. Filed Jan. 15, 1953.



The representation of the girl on the drawing is fanciful. No exclusive claim is made to the representation of the sandwich and cup of coffee on the tray and the wording "Fast Sandwich Self-Service."

For Restaurant Services.

Claims use since Nov. 15, 1952.

Ser. No. 641,919. George Leonard Ely, St. Petersburg, Fla. Filed Feb. 9, 1953.

VISIONEERING

For Architectural Services Relating to Building.

Claims use since July 17, 1946.

Ser. No. 642,840. Roly-Poly Corporation, Lima, Ohio. Filed Feb. 26, 1953.

ROLY-POLY

For Services to Persons Establishing and Maintaining Frozen Custard Stores and Stands—Namely, the Selection of Appropriate Sites; the Furnishing of Building and Merchandising Plans, Specifications, Signs, Color Schemes, and Layouts; Providing Proper Recipes, Formulae, and Instructions for the Preparation and Serving of Such Products; Selecting and Arranging for Proper Sources for Equipment and Supplies.

Claims use since Mar. 15, 1952.

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 545,729. Downs, Mohl & Co. (Not Inc.), Chicago, Ill. Filed Dec. 30, 1947.



For Bookkeeping and Accounting Services, and Tax Service in Connection With Aviation Business Covering the Preparation of the Following Returns: (a) Income Tax; (b) Withholding Tax; (c) Federal Insurance Contribution; (d) Unemployment Tax and (e) Sales Tax; an Insurance Counseling Service in Connection With Aviation Business Comprising Detailed Analysis and Assistance on All Types of Coverages; a Real Estate Service in Connection With Aviation Business Including Lease Negotiation, Land Assembly and Purchase, Site Selection, Zoning and Community Surveys; and Advanced Engineering Service in Connection With Aviation Business on Airport Layout, Planning Structures, and Maintenance.

Claims use since on or about Nov. 15, 1947.

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 545,729. Downs, Mohl & Co. (Not Inc.), Chicago, Ill. Filed Dec. 30, 1947. (Classified in Class 101.)

See this serial number in Class 101 for goods and mark.

Claims use since on or about Nov. 15, 1947.

Ser. No. 630,659. American International Underwriters Corporation, New York, N. Y., assignee of American International Marine Agency of New York, Inc. Filed June 3, 1952.



Applicant disclaims use of the words "Marine Insurance" separate and apart from the mark as shown.

For Ocean and Inland Marine Insurance Agency and Brokerage Services.

Claims use since Apr. 2, 1945.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 619,738. Cavitron Corporation, New York, N. Y. Filed Oct. 9, 1951.

CAVITRON

For Leasing of Equipment To Be Used for Precision Cutting of Hard Materials Such as Tungsten Carbide, Titanium Carbide, Borides, Hardened Tool Steel, Germanium, Quarts, Sintered Aluminum Oxide, and Ceramic Materials Such as Steatite and Ferrite.

Claims use since Jan. 2, 1951.

Ser. No. 648,025. Henry J. Kaiser Company, Oakland, Calif. Filed June 1, 1953.



For Constructing and Repairing of Chemical Processing Plants; Airfields; Mining and Geological Installations; Electrical Installations; Heavy Construction Projects Including Tunnels, Dams, and Hydroelectric Installations; Commercial Buildings; Municipal Utilities and Buildings Therefor, and Other Industrial Projects.

Claims use since Apr. 2, 1953.

CLASS 106

MATERIAL TREATMENT

Ser. No. 603,143. American Lumber & Treating Co., Chicago, Ill. Filed Sept. 5, 1950. (Sec. 2f as to "American Lumber & Treating Co.")



The applicant disclaims the words "Fire-Retardant," and "Type H" apart from the mark as shown.

For Chemically Impregnating Forest Products for Preservation and Fire Resistance.

Claims use since 1942, as to the mark shown; and since August 1934, as to the mark "American Lumber & Treating Co."

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 636,351. Ann N. Dries, Bayside, N. Y. Filed Oct. 8, 1952.

Ann Harvey

The mark "Ann Harvey" is a fictitious name under which the applicant is rendering her services.

For Home Economist Services in Planning, Demonstrating, and Preparing Meals Conducted Through Lectures and Radio and Television Broadcast Programs.

Claims use since Jan. 7, 1952.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,792. Furniture—Namely, Upholstered Furniture for Living Rooms, Etc. Heritage Furniture, Inc., High Point, N. C.
Filed Feb. 27, 1946, Serial No. 497,309. Published July 7, 1953. Class 32.

ACT OF 1946, PRINCIPAL REGISTER

581,141. Rubbing Machines—Namely, Rubbing Machines for Attachment to Power Drills. Du-Fast, Inc., New York, N. Y.
Filed May 27, 1948, Serial No. 557,912. Published June 23, 1953. Class 23.

581,142. Outboard Motors and Parts Thereof. Kiekhaefer Corporation, Cedarburg, Wis.
Filed Aug. 12, 1948, Serial No. 563,258. Published May 19, 1953. Class 23.

581,143. Outboard Motors and Parts Thereof. Kiekhaefer Corporation, Cedarburg, Wis.
Filed Aug. 12, 1948, Serial No. 563,259. Published May 19, 1953. Class 23.

581,144. Hand Held Electrical Appliances Adapted To Be Maneuvered Manually for Application to Material, Etc. The A. C. Gilbert Company, New Haven, Conn.
Filed Sept. 24, 1948, Serial No. 565,770. Published July 28, 1953. Class 21.

581,145. Hand Held Electrical Appliances Adapted To Be Maneuvered Manually for Application to Material, Etc. The A. C. Gilbert Company, New Haven, Conn.
Filed Sept. 24, 1948, Serial No. 565,771. Published July 28, 1953. Class 21.

581,146. First Aid Kits Containing Bandages, Compress, Tourniquet, Tweezers, Scissors, First Aid Instructions, and Various Medicaments for External and Internal First Aid Treatment. E. D. Bullard Company, San Francisco, Calif.
Filed Nov. 1, 1948, Serial No. 567,944. Published July 21, 1953. Class 44.

581,147. Cookies. Salerno-Megowen Biscuit Company, Chicago, Ill.
Filed Feb. 15, 1949, Serial No. 573,897. Published Mar. 18, 1952. Class 46.

581,148. Carburetors, Jet Engine Fuel Controls, Governors, and Parts Thereof, for Engines. Holley Carburetor Company, Detroit, Mich.
Filed Mar. 28, 1949, Serial No. 576,208. Published June 23, 1953. Class 23.

581,149. Portable Breakdown Shipping Cases Which May Be Opened Up and Used as Displays for Merchandise. Devorn Displays Corporation, Cleveland, Ohio.
Filed Apr. 12, 1949, Serial No. 576,960. Published July 14, 1953. Class 2.

581,150. Polish and Cleaner for Automobile Bodies. The Black and Decker Manufacturing Company, Towson, Md.
Filed June 28, 1949, Serial No. 581,166. Published July 21, 1953. Class 4.

581,151. Refrigeration Packaging Products—Namely, Plastic Film and Cellophane Bags Which Are Impervious to Moisture, and Cartons. International Harvester Company, Chicago, Ill.
Filed July 14, 1949, Serial No. 581,959. Published July 14, 1953. Class 2.

581,152. Razor Blades. Goldtone Razor Blade Co., Inc., Newark, N. J.
Filed Aug. 13, 1949, Serial No. 583,433. Published July 7, 1953. Class 23.

581,153. Gear Housings, Rack Slides, Spline Gears, Clutch Mechanism Sliding Sleeves, Cam Hubs, and Inner Cylinders for Tumbler Locks. Powdered Metal Products Corporation of America, Franklin Park, Ill.
Filed Aug. 19, 1949, Serial No. 583,709. Published May 26, 1953. Class 23.

581,154. Metal Receptacles — Namely, Cleanser Can Holders, Etc. Harper J. Ransburg Co., Inc., Indianapolis, Ind.
Filed Nov. 9, 1949, Serial No. 587,562. Published July 14, 1953. Class 2.

581,155. Bedroom Furniture Comprising Beds, Dressers, Cribs, Wardrobes, Bedroom Chairs, Bedroom Picture Frames, Etc. Sachs Quality Stores, Inc., New York, N. Y.
Filed Dec. 8, 1949, Serial No. 589,045. Published July 14, 1953. Class 32.

581,156. Therapeutic Thermometers, Crutches, Splints, Fracture Splints, Etc. Graham-Field Surgical Co., New York, N. Y.
Filed Dec. 16, 1949, Serial No. 589,442. Published July 28, 1953. Class 44.

581,157. Drills, Drill Blanks, Router Bits, End Mills, Carbide Tipped and Solid Carbide Tools, Boring Bars, Tool Bits, Engraving Tools, and Rolls. Ace Drill Corporation, Adrian, Mich.
Filed Dec. 19, 1949, Serial No. 589,545. Published May 19, 1953. Class 23.

581,158. Steel Desks, Steel Tables, Steel Costumers, Etc. The Globe-Wernicke Co., Cincinnati, Ohio.
Filed Dec. 30, 1949, Serial No. 590,151. Published July 7, 1953. Class 32.

581,159. Mattresses. The Englander Company, Inc., Chicago, Ill.
Filed Apr. 18, 1950, Serial No. 595,882. Published Apr. 3, 1951. Class 32.

581,160. Vitamin A and a Vitamin D Supplement for Animal or Poultry Consumption. Western Condensing Company, San Francisco, Calif.
Filed May 22, 1950, Serial No. 597,924. Published July 21, 1953. Class 18.

581,161. Drugs and Tablets Designed To Relieve Muscular Tension. The Panray Corp., New York, N. Y.
Filed July 10, 1950, Serial No. 600,444. Published June 30, 1953. Class 18.

581,162. Preparation for Use in Conditions of Adrenal Insufficiency Such as Addison's Disease. Meyer Chemical Company, Detroit, Mich.
Filed July 18, 1950, Serial No. 600,841. Published May 27, 1952. Class 18.

581,163. Wrapping Paper and Butchers' Paper. Gulf States Paper Corporation, Tuscaloosa, Ala.
Filed Sept. 7, 1950, Serial No. 603,233. Published May 26, 1953. Class 37.

581,164. Chemically Treated Polishing Cloth, Chrome Polish, and Cleaner and Polish for Painted Surfaces, Cleaner and Wax for Painted Surfaces Possessing Polishing Properties. The Pure Oil Company, Chicago, Ill.
Filed Sept. 29, 1950, Serial No. 604,227. Published July 28, 1953. Class 4.

581,165. Self-Hardening Plastic-Surfacing Composition for Exterior and Interior Walls. Mineral-Ite Corp., Brigantine, N. J.
Filed Oct. 2, 1950, Serial No. 604,312. Published June 23, 1953. Class 12.

581,166. Zipper Lubricating Device, Including a Generally Tubular Dispenser for Containing a Stick of Solid Lubricant, Etc. W. Staunton Moylan, Philadelphia, Pa.
Filed Oct. 18, 1950, Serial No. 605,111. Published June 23, 1953. Class 23.

581,167. Ready Mixed Paints for Protecting the Bottoms of Wooden Vessels Against Animal and Vegetable Life in the Water. International Paint Company, Inc., New York, N. Y.
Filed Nov. 2, 1950, Serial No. 605,794. Published July 14, 1953. Class 16.

581,168. Composition in Compressed Capsule Form for Mitigating Nausea Due to Motion Sickness and Overindulgence. Medical Specialties, Inc., Rochester, Minn.
Filed Dec. 2, 1950, Serial No. 607,227. Published July 21, 1953. Class 18.

581,169. Spectacles and Spectacle Frames. Tura, Inc., New York, N. Y.
Filed Jan. 25, 1951, Serial No. 609,263. Published July 14, 1953. Class 26.

581,170. Lacquer Type Coating Compositions Particularly Suited for Application to Asphalt, Composition, and Rubber Floor Surfaces. Abco, Inc., formerly known as Apter Bros. & Co., Inc., McKeesport, Pa.
Filed Feb. 28, 1951, Serial No. 610,605. Published July 14, 1953. Class 16.

581,171. Medicinal Preparation for the Relief of Hypertension. The E. L. Patch Company, Stoneham, Mass.
Filed Mar. 30, 1951, Serial No. 612,031. Published July 21, 1953. Class 18.

581,172. Aspirin, Saccharine Tablets, Glycerine Suppositories, Soda Bicarbonate Tablets, and Soda Mint Tablets. Community Drug Co., Inc., Arlington, Va.
Filed Mar. 31, 1951, Serial No. 612,060. Published July 21, 1953. Class 18.

581,173. Drawing Paper. Huribut Paper Company, South Lee, Mass.
Filed Mar. 31, 1951, Serial No. 612,075. Published May 26, 1953. Class 37.

581,174. Lacquer Surface Protective Coating Compositions. Dodd Chemical Corporation, doing business as Dodd Chemical Co., Little Ferry, N. J.
Filed Apr. 23, 1951, Serial No. 612,993. Published July 21, 1953. Class 16.

581,175. Dry Cleaning Solvent. The Dow Chemical Company, Midland, Mich.
Filed May 15, 1951, Serial No. 613,870. Published July 28, 1953. Class 52.

581,176. Plastic Injection Molding Machines, Etc. Giddings & Lewis Machine Tool Company, Fond du Lac, Wis.
Filed Mar. 15, 1951, Serial No. 614,383. Published May 26, 1953. Class 23.

581,177. Drop Bottom Materials Handling Stacking Boxes. The Union Metal Manufacturing Company, Canton, Ohio.
Filed June 30, 1951, Serial No. 615,954. Published July 14, 1953. Class 2.

581,178. Accordions. Farfisa Societa per Azione, Ancona, Italy.
Filed Aug. 2, 1951, Serial No. 617,238. Published Nov. 13, 1951. Class 36.

581,179. Automatic Controllers for Controlling Temperature, Pressure, Liquid Level, Rate of Flow, and Like Variables. Taylor Instrument Companies, Rochester, N. Y.
Filed Aug. 24, 1951, Serial No. 618,063. Published May 26, 1953. Class 26.

581,180. Preparation for the Treatment of Obesity or Useful in Weight Control. Slenderella Systems, Inc., Chicago, Ill., New York, N. Y., and Washington, D. C., formerly Sil-oo-ette Systems, Inc.
Filed Sept. 15, 1951, Serial No. 618,864. Published July 21, 1953. Class 18.

581,181. Waxed Paper, Transparent Paper, and Wrapping Paper. Pollock Paper Corporation, Dallas, Tex.
Filed Sept. 28, 1951, Serial No. 619,358. Published June 2, 1953. Class 37.

581,182. Synthetic Enamels and Varnishes. Bee Chemical Company, Chicago, Ill.
Filed Sept. 29, 1951, Serial No. 619,379. Published July 14, 1953. Class 16.

581,183. Liniment Indicated for Sore, Tired, Aching Muscles. Davis Wholesale Drug Co., Inc., Baton Rouge, La.
Filed Oct. 10, 1951, Serial No. 619,803. Published July 21, 1953. Class 18.

581,184. Leather in the Piece. Charles Horowitz, New York, N. Y.
Filed Oct. 10, 1951, Serial No. 619,831. Published July 21, 1953. Class 1.

581,185. Leather in the Piece. Charles Horowitz, New York, N. Y.
Filed Oct. 10, 1951, Serial No. 619,832. Published July 21, 1953. Class 1.

581,186. Coated Abrasive Grinding and Polishing Machinery Accessories—Namely, Sanding Pad Assemblies. Behr-Manning Corporation, Troy, N. Y.
Filed Oct. 26, 1951, Serial No. 620,488. Published May 19, 1953. Class 23.

581,187. Machine Tools—Namely, Machine Tools for the Manufacture of Eccentrics and of Circular and Non-Circular Machine Parts and Cams. Manufacture de Machines du Haut-Rhin, Mulhouse-Bourtzwiller (Haut-Rhin), France.
Filed Oct. 31, 1951, Serial No. 620,738. Published June 23, 1953. Class 23.

581,188. Pressure Propelled Paint Containing Acryloid Resins of Different Colors for Decorative Purposes. Make It Snow, Inc., New York, N. Y., assignor to Boyle-Midway Inc., New York, N. Y., a corporation of Delaware.
Filed Nov. 1, 1951, Serial No. 620,784. Published July 14, 1953. Class 16.

581,189. Smoking Tobacco. Larus & Brother Company, Richmond, Va.
Filed Nov. 2, 1951, Serial No. 620,809. Published July 7, 1953. Class 17.

581,190. Synthetic Plastic Material in the Form of Sheets, Rods, Threads, Filaments, and Cylinders for Further Manufacture in the Industrial Arts. Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France.
Filed Nov. 28, 1951, Serial No. 621,790. Published July 14, 1953. Class 1.

581,191. Undercoatings, Primer Coatings, or Like Preparatory Protective Coatings, Etc. S. J. Arnold Company, Cleveland, Ohio.
Filed Dec. 19, 1951, Serial No. 622,688. Published July 14, 1953. Class 16.

581,192. Pads and Mops of Abrasive Materials for Scouring and Cleaning Dishes, Pots, Pans, Saucepans, Other Kitchen Utensils, and Holders for Such Goods. Scour-Tex Proprietary Limited, Melbourne, Victoria, Australia.
Filed Dec. 22, 1951, Serial No. 622,779. Published July 14, 1953. Class 4.

581,193. Molded Plastic Tops for Tables, Desks, and Counters. Insulation Manufacturing Company, Inc., Brooklyn, N. Y.
Filed Jan. 4, 1952, Serial No. 623,193. Published July 7, 1953. Class 32.

581,194. Hair Waving Lotion. Sales Affiliates, Inc., New York, N. Y.
Filed Jan. 5, 1952, Serial No. 623,259. Published July 28, 1953. Class 51.

581,195. Pitch, Especially for Use in Breweries; Pitch-Like Goods for Lining of the Containers for the Fermentation, Storage, and Transportation of Liquids for Use in the Beverage Industry and Fermentation Business. A. Gusmer, Inc., Hoboken, N. J.
Filed Jan. 7, 1952, Serial No. 623,276. Published July 14, 1953. Class 1.

581,196. Motion Picture Cameras. Bell & Howell Company, Chicago, Ill.
Filed Jan. 9, 1952, Serial No. 623,331. Published May 26, 1953. Class 26.

581,197. Calculating Machines and Parts Thereof. Ing. C. Olivetti & C. S. p A., Ivrea, Italy.
Filed Jan. 23, 1952, Serial No. 623,961. Published May 26, 1953. Class 26.

581,198. Sewing Machine Needles. Schmetz Needle Corporation, New York, N. Y.
Filed Jan. 24, 1952, Serial No. 624,053. Published June 23, 1953. Class 23.

581,199. Germicide and Antiseptic for External Application. Hart & Cooley Manufacturing Co., Holland, Mich.
Filed Jan. 26, 1952, Serial No. 624,135. Published July 21, 1953. Class 18.

581,200. Carbon Paper. Underwood Corporation, New York, N. Y.
Filed Jan. 29, 1952, Serial No. 624,250. Published July 21, 1953. Class 11.

581,201. Compositions, Packaged in Liquid and Solid Form, for Use as Leather Dressings and Leather Polishes, and Also Metal Polishing Compositions. Kepec Chemical Corporation, Milwaukee, Wis.
Filed Jan. 30, 1952, Serial No. 624,274. Published July 21, 1953. Class 4.

581,202. Routegraph Instruments Which Are Combined Mileage Meters and Route Indicators, Sometimes Known as Odometers. Chartometer Company, Inc., Valley Stream, N. Y.
Filed Feb. 4, 1952, Serial No. 624,467. Published May 19, 1953. Class 26.

581,203. Medicinal Preparations for the Eyes Including Medicated Eye Pads, Eye Drops, and Eye Bath. The Oculine Company, Inc., Beverly Hills, Calif.
Filed Feb. 4, 1952, Serial No. 624,497. Published July 21, 1953. Class 18.

581,204. Coating Material Comprising a Synthetic Resin and a Primer for Application to a Surface Which Is To Be Coated With a Synthetic Resin Coating Material. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa.
Filed Feb. 6, 1952, Serial No. 624,588. Published July 14, 1953. Class 16.

581,205. Unwoven Fabric Made From All Cotton Fibres, Sold by the Yard, or Bolt, or Pound, and Suitable for Use in Laminated Plastics, Quilting, Shoulder Pads, Filters, Etc. Continental Paper Grading Company, Chicago, Ill.
Filed Feb. 21, 1952, Serial No. 625,343. Published July 14, 1953. Class 1.

581,206. Container Maintained Under Vacuum and a Donor Set for Use Therewith, Etc. Baxter Laboratories, Inc., Morton Grove, Ill.
Filed Feb. 23, 1952, Serial No. 625,393. CONCURRENT USE. Published June 30, 1953. Class 44.

581,207. Chamois. Atlantic Sponge & Chamois Corporation, New York, N. Y.
Filed Feb. 27, 1952, Serial No. 625,572. Published July 21, 1953. Class 1.

581,208. Candles. Hawley & Hoops, Inc., East Boston, Boston, Mass.
Filed Mar. 7, 1952, Serial No. 626,083. Published Sept. 23, 1952. Class 46.

581,209. Blood Donor Set Consisting of a Valve Having a Tube for Communication With a Blood Container, a Hollow Needle, and a Second Tube Connecting Said Valve and Said Needle. Don Baxter, Inc., Glendale, Calif.
Filed Mar. 8, 1952, Serial No. 626,141. CONCURRENT USE. Published June 30, 1953. Class 44.

581,210. Electric-Motor Driven and Electrically Controlled Machines for Dispensing Adhesively Conditioned Lengths of Paper, Etc. Nashua Gummed and Coated Paper Company, Nashua, N. H., now, by change of name, Nashua Corporation.
Filed Mar. 13, 1952, Serial No. 626,402. Published July 28, 1953. Class 21.

581,211. Corrugated Paper Board. Packaging Materials Corp., Providence, R. I.
Filed Mar. 21, 1952, Serial No. 626,816. Published June 16, 1953. Class 37.

581,212. Corrugated Paper Board. Packaging Materials Corp., Providence, R. I.
Filed Mar. 21, 1952, Serial No. 626,817. Published June 16, 1953. Class 37.

581,213. Corrugated Paper Board. Packaging Materials Corp., Providence, R. I.
Filed Mar. 21, 1952, Serial No. 626,818. Published June 16, 1953. Class 37.

581,214. Mineral Supplement for Livestock and Poultry Feeds. Feedstuffs Processing Company, Oakland, Calif.
Filed Mar. 24, 1952, Serial No. 626,939. Published July 7, 1953. Class 18.

581,215. Vaginal Suppositories. Sanford Kornfield, doing business under the name and style of K & L Drug Company, Oakland, Calif.
Filed Mar. 29, 1952, Serial No. 627,266. Published July 7, 1953. Class 18.

581,216. Snuff, Chewing and Smoking Tobacco, Cigars, and Cigarettes. Austria Tabakwerke Aktiengesellschaft vorm. Oesterreichische Tabakregie, Vienna, Austria.
Filed Mar. 31, 1952, Serial No. 627,312. Published July 14, 1953. Class 17.

581,217. Materials for Use in Making Drilling Muds—Namely, Sawdust, Chopped Cellophane, Ground Bagasse, Starch, Ground Barite, Lignite, Clay, Bentonite, Mica, and Quebracho Compound. The Milwhite Company, Inc., Houston, Tex.
Filed Mar. 31, 1952, Serial No. 627,347. Published July 14, 1953. Class 1.

581,218. Index Tab Sets Sold in Strips. Cel-U-Dex Corporation, Brooklyn, N. Y.
Filed Apr. 3, 1952, Serial No. 627,490. Published May 26, 1953. Class 37.

581,219. Index Tabs. Cel-U-Dex Corporation, Brooklyn, N. Y.
Filed Apr. 3, 1952, Serial No. 627,492. Published May 26, 1953. Class 37.

581,220. Electric Ranges and Electric Water Heaters. A. J. Lindemann & Hoverson Company, Milwaukee, Wis.
Filed Apr. 4, 1952, Serial No. 627,585. Published July 28, 1953. Class 21.

581,221. Newsprint Paper, Strawboard, One Side Bleached Woodpulp Board, Strawpaper, Chipboard, Correspondence Envelopes, and Note Pads. Bowater Paper Company, Inc., New York, N. Y.
Filed Apr. 7, 1952, Serial No. 627,669. Published June 2, 1953. Class 37.

581,222. Hydraulic Chain Saws. Von Ruden Manufacturing Co., Claremont, Minn.
Filed Apr. 7, 1952, Serial No. 627,724. Published July 7, 1953. Class 23.

581,223. Sheets Formed of Ground Wood or Other Wood Particles With a Resin Binder Sold in Certain Standard Sizes and Thicknesses for Various Uses in the Industrial Arts. W. L. Stensgaard and Associates, Inc., Chicago, Ill.
Filed Apr. 10, 1952, Serial No. 627,906. Published July 14, 1953. Class 1.

581,224. Thermostatically-Controlled, Pressure-Operated Instruments for Temperature Regulation. Fred I. Raymond, Chicago, Ill.
Filed Apr. 22, 1952, Serial No. 628,507. Published May 12, 1953. Class 26.

581,225. Right Angle Drive Attachments for Power Drills, Flexible Disk Sanders and Polisher Attachments for Power Drills, Straight and Angle Line Speed Reducer Drive Attachments for Power Drills. William J. Babcock, doing business under the name and style Babcock & Co., Oakland Calif.
Filed Apr. 25, 1952, Serial No. 628,665. Published May 12, 1953. Class 23.

581,226. Cough Drops. Cociiana, Inc., Brooklyn, N. Y.
Filed Apr. 30, 1952, Serial No. 628,922. Published July 21, 1953. Class 18.

581,227. Power Squaring Shears, Power Press Brakes, Metal Forming Presses, Compression Molding Presses, Cold Laminating Presses, Hydraulic Hot Plate Presses, Hydraulic Hot Plate Hardboard Presses, Hydraulic Electronic Laminating Presses. Columbia Machinery & Engineering Corp., Hamilton, Ohio.
Filed May 7, 1952, Serial No. 629,286. Published Dec. 2, 1952. Class 23.

581,228. Power Squaring Shears, Power Press Brakes, Metal Forming Presses, Compression Molding Presses, Cold Laminating Presses, Hydraulic Hot Plate Presses, Hydraulic Hot Plate Hardboard Presses, Hydraulic Electronic Laminating Presses. Columbia Machinery & Engineering Corp., Hamilton, Ohio.
Filed May 7, 1952, Serial No. 629,287. Published Dec. 2, 1952. Class 23.

581,229. Non-Metallic Protective Packing Cases Moulded Into Special Shapes To Hold and Store Articles of Merchandise. Evans Bellhouse Limited, Manchester, England.
Filed May 14, 1952, Serial No. 629,659. Published July 14, 1953. Class 2.

581,230. Ready Mixed and Anti-Corrosive Paints. J. C. Hempel's Skibefarvefabrik A/S, Copenhagen, Denmark.
Filed May 16, 1952, Serial No. 629,798. Published July 14, 1953. Class 16.

581,231. Corrosion Remover and Brightener, Aluminum Alloy Surface Cleaner and Fast Acting Brightener, All for Cleaning and Polishing Purposes. Cee-Bee Chemical Co., Inc., Los Angeles, Calif.
Filed May 17, 1952, Serial No. 629,836. Published July 28, 1953. Class 4.

581,232. General Cleaning Preparation. Alfred Earl Harriman, doing business as Harriman Products Co., Los Angeles, Calif.
Filed May 21, 1952, Serial No. 630,007. Published July 21, 1953. Class 52.

581,233. Tractors. Toro Manufacturing Corporation of Minnesota, Minneapolis, Minn.
Filed May 24, 1952, Serial No. 630,229. Published Nov. 18, 1952. Class 23.

581,234. Anti-Thumb Sucking Device in the Form of a Guard Formed of Pliable Material and Adapted To Fit Upon a Thumb. Progressive Products, La Mesa, Calif., assignor to Progressive Products, Inc., La Mesa, Calif., a corporation of California.
Filed May 26, 1952, Serial No. 630,284. Published July 21, 1953. Class 44.

581,235. Oil Lubricated Gear Transmission Mechanisms. U. S. Electrical Motors, Inc., Los Angeles, Calif.
Filed May 26, 1952, Serial No. 630,290. Published June 30, 1953. Class 23.

581,236. Metal Clothes Cabinets or Lockers. Steel Service, Inc., Steubenville, Ohio.
Filed May 27, 1952, Serial No. 630,358. Published July 7, 1953. Class 32.

581,237. Dental Abrasive Disc Holders and Dispensers. George W. Phelan, Union City, N. J.
Filed May 28, 1952, Serial No. 630,437. Published July 14, 1953. Class 44.

581,238. Organic Chemical Sold for Use as Antiskinning Agent for Compositions Containing Drying Oils or Resins. Allied Chemical & Dye Corporation, New York, N. Y.
Filed June 2, 1952, Serial No. 630,563. Published July 28, 1953. Class 6.

581,239. Automobile Seats of Slat Construction Adapted To Be Placed Over the Regular Seat, Etc. Temple Lab Inc., Brooklyn, N. Y.
Filed June 4, 1952, Serial No. 630,737. Published July 14, 1953. Class 32.

581,240. Snuff, Chewing and Smoking Tobacco, Cigars, and Cigarettes. Austria Tabakwerke Aktiengesellschaft vorm. Oesterreichische Tabakregie, Vienna, Austria.
Filed June 5, 1952, Serial No. 630,868. Published July 14, 1953. Class 17.

581,241. Mold Making Machinery for Making Shell Molds for Metal Casting. Newark Pattern Works, Newark, N. J., assignor to Shell-O-matic, Inc., Newark, N. J.
Filed June 7, 1952, Serial No. 630,901. Published June 16, 1953. Class 23.

581,242. Diaper Bags, Picnic Bags, and Food-Carrying Bags. The Apollo Company, Inc., Detroit, Mich.
Filed June 9, 1952, Serial No. 630,917. Published July 14, 1953. Class 2.

581,243. Numbering Machines and Date Stamps. Theodore D. Oulman, doing business under the assumed name of Pronto Sales, Portland, Oreg.
Filed June 10, 1952, Serial No. 631,020. Published June 23, 1953. Class 23.

581,244. Moth Destroyer and Preventative. Cenol Company, Inc., Chicago, Ill.
Filed June 20, 1952, Serial No. 631,466. Published July 28, 1953. Class 6.

581,245. Chain Sprockets Made of Cast Iron and Like Material. The Jeffrey Manufacturing Company, Columbus, Ohio.
Filed June 21, 1952, Serial No. 631,557. Published June 30, 1953. Class 23.

581,246. Gasoline Marine Engines. Nordberg Manufacturing Company, Milwaukee, Wis.
Filed June 25, 1952, Serial No. 631,754. Published Jan. 20, 1953. Class 23.

581,247. Hygienic Powder for Use as a Douche and Active Deodoriser. Wilfred N. Householder, doing business as Householder's Prescription Pharmacy, Portland, Oreg.
Filed June 27, 1952, Serial No. 631,867. Published July 28, 1953. Class 18.

581,248. Spot Removing Preparations Used on Garments. Penny Spot Company, Midland, Mich.
Filed June 27, 1952, Serial No. 631,889. Published July 28, 1953. Class 52.

581,249. Reactive Organic Chemicals for Stabilizing Rayon Textile Fabrics. Dan River Mills, Incorporated, Danville, Va.
Filed July 5, 1952, Serial No. 632,158. Published July 28, 1953. Class 6.

581,250. Mufflers for Use With Internal Combustion Engines and Extensions for Tail Pipes. Goerlich's, Toledo, Ohio.
Filed July 7, 1952, Serial No. 632,207. Published Feb. 3, 1953. Class 23.

581,251. Aralkyl Phenol Mixture, Being a Non-Staining Liquid Antioxidant for Use Mainly in Rubber. The Dow Chemical Company, Midland, Mich.
Filed July 10, 1952, Serial No. 632,355. Published July 28, 1953. Class 6.

581,252. Products and Compositions Which Will Emit and Liberate Oxygen. The Societe Anonyme Societe Universelle de Produits Chimiques et d'Explosifs, Paris, France.
Filed July 17, 1952, Serial No. 632,699. Published July 28, 1953. Class 6.

581,253. Metal Coated Paper. Vaporized Metal Coatings, Inc., New York, N. Y.
Filed July 17, 1952, Serial No. 632,703. Published May 26, 1953. Class 37.

581,254. Linoleum, Linoleum Rugs, Linoleum Mats, Linoleum Floor and Wall Tile, Linoleum Stair Treads and Risers, Flexible Plastic Floor and Wall Covering, Flexible Plastic Floor and Wall Tile, Flexible Rubber Floor Tile, and Oiled Cloth. Aldens, Inc., Chicago, Ill.
Filed July 19, 1952, Serial No. 632,769. Published July 14, 1953. Class 20.

581,255. Stainless Steel Flatware — Namely, Knives, Forks, and Spoons for Table Use. The International Silver Company, Meriden, Conn.
Filed July 19, 1952, Serial No. 632,786. Published July 7, 1953. Class 23.

581,256. Light Weight Siliceous Powdered and Granular Materials—Namely, Expanded Perlite for Use in Foundry Core Formulations. Great Lakes Carbon Corporation, New York, N. Y.
Filed June 17, 1952, Serial No. 632,814. Published July 21, 1953. Class 1.

581,257. Light Weight Siliceous Powdered and Granular Materials—Namely, Expanded Perlite for Use in Foundry Molding Formulations and Practices. Great Lakes Carbon Corporation, New York, N. Y.
Filed June 17, 1952, Serial No. 632,815. Published July 21, 1953. Class 1.

581,258. Synthetic Resinous Soil Conditioning Agents. Shelden-Cole, Inc., Rockford, Ill.
Filed July 31, 1952, Serial No. 633,334. Published July 28, 1953. Class 10.

581,259. Rectifier Testers for Electrical Rectifiers That Operate Without an External Power Source; the Tester Operating by Electrical Resistance Measurements. Galvanic Products Corporation, Valley Stream, N. Y.
Filed Aug. 8, 1952, Serial No. 633,614. Published July 28, 1953. Class 26.

581,260. Tablets for Internal Administration Which Are Used as a Dye in Cholecystography. Picker X-Ray Corporation, New York, N. Y.
Filed Aug. 8, 1952, Serial No. 633,628. Published July 21, 1953. Class 18.

581,261. Collapsible Display and Holding Racks Made of Fibrous Sheet Material, Etc. United Biscuit Company of America, doing business under the style name of Chicago Carton Company, Chicago, Ill.
Filed Aug. 9, 1952, Serial No. 633,687. Published July 14, 1953. Class 2.

581,262. Mattresses. Serta Associates, Inc., Wilmington, Del., and Chicago, Ill.
Filed Aug. 13, 1952, Serial No. 633,879. Published July 14, 1953. Class 32.

581,263. Printing and Marking Inks. Rejafix Limited, London, England.
Filed Aug. 15, 1952, Serial No. 634,001. Published July 14, 1953. Class 11.

581,264. Medicinal Preparation Intended for the Treatment of Parkinsonism. Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y.
Filed Aug. 16, 1952, Serial No. 634,030. Published July 21, 1953. Class 18.

581,265. Resin Adhesives—Namely, Urea Formaldehyde, Urea Melamine, and Alkyd Type Synthetic Resinous Adhesives, and Natural and Synthetic Rubber Adhesives. Rarolite Chemical Co. Inc., Raritan, N. J.
Filed Aug. 22, 1952, Serial No. 634,340. Published July 28, 1953. Class 5.

581,266. Wrapping Paper. Kehr Paper Products Co., Philadelphia, Pa.
Filed Aug. 23, 1952, Serial No. 634,372. Published June 16, 1953. Class 37.

581,267. Detergents—Namely, Washing Agents and Industrial Soaps for Textiles. Farbwerke Hoechst, vormals Meister Lucius & Brüning, Frankfurt am Main Hochst, Germany.
Filed Aug. 13, 1952, Serial No. 634,432. Published July 21, 1953. Class 52.

581,268. Centrifugal Pumps and Parts Thereof. A. R. Wilfley and Sons, Inc., Denver, Colo.
Filed Aug. 29, 1952, Serial No. 634,672. Published June 30, 1953. Class 23.

581,269. Centrifugal Pumps and Parts Thereof. A. R. Wilfley and Sons, Inc., Denver, Colo.
Filed Aug. 29, 1952, Serial No. 634,673. Published June 30, 1953. Class 23.

581,270. Centrifugal Pumps and Parts Thereof. A. R. Wilfley and Sons, Inc., Denver, Colo.
Filed Aug. 29, 1952, Serial No. 634,674. Published June 30, 1953. Class 23.

581,271. Cigarettes, Cigars, and Smoking Tobacco. Rothmans Limited, also trading as Weinberg & Company, London, England.
Filed Sept. 5, 1952, Serial No. 634,920. Published July 7, 1953. Class 17.

581,272. Preparation for Removing Slag Residues from Metal Surfaces After a Soldering, Brazing, or Welding Operation, and for Conditioning Such Metal Surfaces. Eutectic Welding Alloys Corporation, New York, N. Y.
Filed Sept. 17, 1952, Serial No. 635,358. Published July 21, 1953. Class 52.

581,273. Cleaning Composition Such as Detergents, Soaps, etc., for General Household Cleaning Purposes. Industrial Soap Company, St. Louis, Mo.
Filed Sept. 18, 1952, Serial No. 635,418. Published July 28, 1953. Class 52.

581,274. Catalyzer Useful in the Cyclization of Styrene-Butadiene Copolymers and Acrylonitrile Polymers, in Latex Form. Nuodex Products Co., Inc., Elizabeth, N. J.
Filed Sept. 18, 1952, Serial No. 635,426. Published July 28, 1953. Class 6.

581,275. Toilet Tissue, Paper Napkins, Paper Tray Covers, and Paper Tablecloths. Wisconsin Tissue Mills, Menasha, Wis.
Filed Sept. 18, 1952, Serial No. 635,451. Published June 2, 1953. Class 37.

581,276. Umbrellas. Brooks, Inc., Washington, D. C.
Filed Sept. 19, 1952, Serial No. 635,460. Published June 30, 1953. Class 41.

581,277. Agricultural Materials, Namely—Grasses, Weeds, Plants, Containing Chlorophyl, Zantophyl, and Vitamin A, Etc. Indian Trail Ranch, Inc., West Palm Beach, Fla.
Filed Sept. 19, 1952, Serial No. 635,477. Published July 7, 1953. Class 1.

581,278. Chemical for Household and Industrial Use Used as a Disinfectant, Germicide, Antiseptic, Sterilizer, and Deodorant. Vince B. Nyhan, doing business as Vince B. Nyhan Co., Chicago, Ill.
Filed Sept. 26, 1952, Serial No. 635,846. Published July 28, 1953. Class 6.

581,279. Hatching Eggs and Live Baby Chicks. Arthur W. Libby, doing business under the name of Two Rivers Poultry Farms, Steep Falls, Maine.
Filed Oct. 3, 1952, Serial No. 636,132. Published July 7, 1953. Class 1.

581,280. Combined Gift Certificate and Greeting Card. Milton B. May, Oklahoma City, Okla.
Filed Oct. 13, 1952, Serial No. 636,570. Published June 16, 1953. Class 37.

581,281. Polishing Compound. Harold L. Groves, doing business as Granitize Products Co., South Gate, Calif.
Filed Oct. 14, 1952, Serial No. 636,593. Published July 28, 1953. Class 4.

581,282. Silver Cleaner. G. H. Wood and Company Limited, Etobiocoke and Toronto, Ontario, Canada.
Filed Oct. 17, 1952, Serial No. 636,826. Published July 28, 1953. Class 52.

581,283. Leather. Geilich Leather Company, Taunton, Mass.
Filed Oct. 20, 1952, Serial No. 636,887. Published July 21, 1953. Class 1.

581,284. Leather. Geilich Leather Company, Taunton, Mass.
Filed Oct. 20, 1952, Serial No. 636,888. Published July 21, 1953. Class 1.

581,285. Leather. Geilich Leather Company, Taunton, Mass.
Filed Oct. 20, 1952, Serial No. 636,889. Published July 21, 1953. Class 1.

581,286. Leather. Geilich Leather Company, Taunton, Mass.
Filed Oct. 20, 1952, Serial No. 636,890. Published July 21, 1953. Class 1.

581,287. Leather. Geilich Leather Company, Taunton, Mass.
Filed Oct. 20, 1952, Serial No. 636,891. Published July 21, 1953. Class 1.

581,288. Cellulose Gum. Hercules Powder Company, Wilmington, Del.
Filed Oct. 29, 1952, Serial No. 637,312. Published July 7, 1953. Class 1.

581,289. Coal. Pittsburgh Consolidation Coal Company, Pittsburgh, Pa.
Filed Oct. 31, 1952, Serial No. 637,461. Published July 7, 1953. Class 1.

581,290. Toilet Soap. Colgate-Palmolive-Peet Company, Jersey City, N. J.
Filed Nov. 1, 1952, Serial No. 637,479. Published July 28, 1953. Class 52.

581,291. Medicated Bandages. B. K. Demmel Co., Inc., Paterson, N. J.
Filed Nov. 6, 1952, Serial No. 637,704. Published July 21, 1953. Class 18.

581,292. Synthetic Polyester Elastomer Suitable for Various Uses in the Industrial Arts, Particularly as a Substitute for Natural Rubber, Leather, and the Like. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany.
Filed Nov. 6, 1952, Serial No. 637,707. Published July 21, 1953. Class 1.

581,293. Nasal and Aerosol Preparation Containing an Antibiotic for the Treatment of Nasal and Sinus Infections, Etc. Nepera Chemical Co., Inc., Nepera Park, N. Y.
Filed Nov. 7, 1952, Serial No. 637,785. Published July 21, 1953. Class 18.

581,294. Self-Luminous Material, Such as Compounds Containing Zinc Sulfide and Radium. United States Radium Corporation, New York, N. Y.
Filed Nov. 7, 1952, Serial No. 637,802. Published July 28, 1953. Class 6.

581,295. Therapeutic Chest Pads. James E. Cheneweth, National City, Calif.
Filed Nov. 8, 1952, Serial No. 637,816. Published July 28, 1953. Class 44.

581,296. Spark Plug Testing Machines and Combination Spark Plug Cleaning and Testing Machines. Edmund J. Wudel, doing business under the fictitious name and style of Edmund J. Wudel Mfg. Co., Los Angeles, Calif.
Filed Nov. 10, 1952, Serial No. 637,899. Published May 12, 1953. Class 26.

581,297. Dibenzylethylenediamine Dipenicillin for Penicillin Therapy. Wyeth Incorporated, Philadelphia, Pa., assignor to American Home Products Corporation, New York, N. Y., a corporation of Delaware.
Filed Nov. 12, 1952, Serial No. 637,971. Published Aug. 4, 1953. Class 18.

581,298. Medicated Rub. The Denver Chemical Manufacturing Company, New York, N. Y.
Filed Nov. 13, 1952, Serial No. 637,988. Published July 21, 1953. Class 18.

581,299. Crimped Nylon Batting. Star Woolen Co., Cohoes, N. Y.
Filed Nov. 13, 1952, Serial No. 638,019. Published July 14, 1953. Class 1.

581,300. Wall and Furniture Mirrors. Carolina Mirror Corporation, North Wilkesboro, N. C.
Filed Nov. 14, 1952, Serial No. 638,062. Published July 7, 1953. Class 32.

581,301. Hand Operated Tools — Namely, Cultivators, Vegetation Cutters, Tool Handles, Etc. The Union Fork and Hoe Company, Columbus, Ohio.
Filed Nov. 14, 1952, Serial No. 638,111. Published May 12, 1953. Class 23.

581,302. Apparatus for Analyzing Gases and Repair Parts Therefor. H. Maihak Aktiengesellschaft, Hamburg, Germany.
Filed Nov. 17, 1952, Serial No. 638,204. Published May 19, 1953. Class 26.

581,303. Garden Cultivating Tractors. Pacific Machine Mfg. Co., Portland, Oreg.
Filed Nov. 17, 1952, Serial No. 638,213. Published May 12, 1953. Class 23.

581,304. Venetian Blinds. H. G. Finch, Rocky Mount, N. C.
Filed Nov. 19, 1952, Serial No. 638,293. Published July 7, 1953. Class 32.

581,305. Carbon Gland Rings Used in Rotating Equipment, Etc. Societe le Carbone Lorraine, Paris, France.
Filed Nov. 19, 1952, Serial No. 638,331. Published July 28, 1953. Class 35.

581,306. Portion Cost Calculator for Foods. International Minerals & Chemical Corporation, Chicago, Ill.
Filed Nov. 20, 1952, Serial No. 638,362. Published May 19, 1953. Class 26.

581,307. Coal and Coke. Seneca Coal & Iron Corporation, New York, N. Y.
Filed Nov. 22, 1952, Serial No. 638,497. Published June 23, 1953. Class 1.

581,308. Pharmaceutical Preparations Having Acth Activity. Aktiebolaget Leo, Helsingborg, Sweden.
Filed Nov. 28, 1952, Serial No. 638,681. Published July 7, 1953. Class 18.

581,309. Candy Lozenges Containing Medicaments Which Are Intended To Cure Coughs or Colds. Rowntree and Company Limited, London, England.
Filed Nov. 28, 1952, Serial No. 638,738. Published July 21, 1953. Class 18.

581,310. Protective, Heavy Bodied Oil Base Coating for Exterior Surfaces in Liquid Form When Applied and Which Solidifies Into a Relatively Thick Film Over the Surface After Application. Con-Cor Paint Company, Kansas City, Mo.
Filed Dec. 1, 1952, Serial No. 638,793. Published July 14, 1953. Class 16.

581,311. Dental Cement in Powder and Liquid Form. Lee S. Smith & Son Manufacturing Company, Pittsburgh, Pa., and Chicago, Ill.
Filed Dec. 2, 1952, Serial No. 638,874. Published July 28, 1953. Class 44.

581,312. Dental Impression Material in Powder Form. Lee S. Smith & Son Manufacturing Company, Pittsburgh, Pa., and Chicago, Ill.
Filed Dec. 2, 1952, Serial No. 638,876. Published July 28, 1953. Class 44.

581,313. Pigment. American Cyanamid Company, New York, N. Y.
Filed Dec. 3, 1952, Serial No. 638,890. Published July 28, 1953. Class 6.

581,314. Bridges for Ophthalmic Mountings. Shuron Optical Company, Inc., Geneva, N. Y.
Filed Dec. 3, 1952, Serial No. 638,918. Published June 2, 1953. Class 26.

581,315. Bridges for Ophthalmic Mountings. Shuron Optical Company, Inc., Geneva, N. Y.
Filed Dec. 3, 1952, Serial No. 638,919. Published June 2, 1953. Class 26.

581,316. Bridges for Ophthalmic Mountings. Shuron Optical Company, Inc., Geneva, N. Y.
Filed Dec. 3, 1952, Serial No. 638,921. Published June 2, 1953. Class 26.

581,317. Bridges for Ophthalmic Mountings. Shuron Optical Company, Inc., Geneva, N. Y.
Filed Dec. 3, 1952, Serial No. 638,922. Published June 2, 1953. Class 26.

581,318. Ball Point Pens, Fountain Pens, Mechanical Pencils, and Pen and Pencil Desk Sets. Ferber Corporation, Englewood, N. J.
Filed Dec. 5, 1952, Serial No. 639,029. Published June 16, 1953. Class 37.

581,319. Coal. American Anthracite & Bituminous Coal Corporation, New York, N. Y.
Filed Dec. 8, 1952, Serial No. 639,147. Published July 7, 1953. Class 1.

581,320. Asphalt Primer Coatings for Plastered Walls and for Concrete and Magnesite Floors. Kentile, Inc., Brooklyn, N. Y.
Filed Dec. 8, 1952, Serial No. 639,178. Published July 14, 1953. Class 16.

581,321. Small Paper Boxes for Serving Food and Paper Holders Having a Ring Formation for Supporting Drinking Cups and Attachable to Any Wall Surface. Kenneth H. Mackay, doing business as Steady Manufacturing Company, Ocala, Fla.
Filed Dec. 9, 1952, Serial No. 639,229. Published July 14, 1953. Class 2.

581,322. Granular Odor and Moisture Absorptive Litter for Animal Pets. American Bildrok Company, Chicago, Ill.
Filed Dec. 13, 1952, Serial No. 639,402. Published July 14, 1953. Class 1.

581,323. Household Deodorizing Preparations and Moth Crystals. Better Brushes, Incorporated, Palmer, Mass.
Filed Dec. 13, 1952, Serial No. 639,411. Published July 28, 1953. Class 6.

581,324. Umbrellas, Parasols, and Canes. Stern Brothers, New York, N. Y.
Filed Dec. 15, 1952, Serial No. 639,522. Published June 9, 1953. Class 41.

581,325. Wound Clips. Propper Manufacturing Company, Inc., Long Island City, N. Y.
Filed Dec. 17, 1952, Serial No. 639,657. Published July 28, 1953. Class 44.

581,326. Water and Weather Proof Paper To Be Used for Wrapping and for Containers Such as Bags, Envelopes, and the Like. Union Bag & Paper Corporation, New York, N. Y.
Filed Dec. 17, 1952, Serial No. 639,677. Published June 30, 1953. Class 37.

581,327. Spinning and Twister Rings. Whitinsville Spinning Ring Company, Whitinsville, Mass.
Filed Dec. 17, 1952, Serial No. 639,683. Published June 30, 1953. Class 23.

581,328. Cork and Cork Composition for Use in the Manufacture of Bulletin Boards. Congoleum-Nairn, Inc., Kearny, N. J.
Filed Dec. 19, 1952, Serial No. 639,742. Published July 21, 1953. Class 1.

581,329. Cigarette Lighters, Cigarette Cases, and Smokers' Pipes. The Cat Cay Realty Company, Limited, Nassau, Island of New Providence, Bahama Islands, British West Indies.
Filed Dec. 20, 1952, Serial No. 639,804. Published July 14, 1953. Class 8.

581,330. Clinical Thermometers—Namely, Oral, Rectal, and Stubby Varieties. Kaye Thermometer Corporation, Brooklyn, N. Y.
Filed Dec. 22, 1952, Serial No. 639,885. Published July 28, 1953. Class 44.

581,331. Dental Products — Namely, Dental Floss. Theodore H. Bernstein, doing business under the name and style of Ted Bernstein Associates, New York, N. Y.
Filed Dec. 24, 1952, Serial No. 639,980. Published July 28, 1953. Class 44.

581,332. Drilling Engines, Engine Pumps and Parts Used in the Oil and Gas Industry, Etc. Ajax Iron Works, Corry, Pa.
Filed Jan. 5, 1953, Serial No. 640,318. Published June 23, 1953. Class 23.

581,333. Antihistaminic, Analgesic, and Antipyretic Composition. Nepera Chemical Co., Inc., Nepera Park, N. Y.
Filed Jan. 5, 1953, Serial No. 640,353. Published July 21, 1953. Class 18.

581,334. Pharmaceutical Preparation for Use as a Muscle Relaxant. Allen. & Hanburys, Limited, London, England.
Filed Jan. 6, 1953, Serial No. 640,371. Published July 21, 1953. Class 18.

581,335. Hair Driers. Leo J. Grills, Broward County Air Port, Fla.
Filed Jan. 8, 1953, Serial No. 640,513. Published July 28, 1953. Class 44.

581,336. Dry Ground Limestone in Use in Poultry Houses as a Drying Agent To Build up the Poultry Litter. Harry T. Campbell Sons' Corp., Towson, Md.
Filed Jan. 12, 1953, Serial No. 640,609. Published July 21, 1953. Class 1.

581,337. Dental Hand Pieces. Martin Staunt, doing business as Midwest Dental Manufacturing Co., Chicago, Ill.
Filed Dec. 26, 1952, Serial No. 640,709. Published July 28, 1953. Class 44.

581,338. Magnetic Induction Flowmeters, Including Auxiliary Equipment Therefor, Etc. Vitro Corporation of America, New York, N. Y.
Filed Jan. 15, 1953, Serial No. 640,825. Published July 28, 1953. Class 26.

581,339. Photographic Cameras and Accessories—Namely, Rewinding-Table, Splicing Bench, Film Clip, Shoulder Support, Film Meter, Film Gate, Tripod, Developing Machines, and Printers. Photoptic Import Corp., New York, N. Y.
Filed Jan. 19, 1953, Serial No. 640,959. Published July 28, 1953. Class 26.

581,340. Photographic Cameras and Accessories—Namely, Rewinding-Table, Splicing Bench, Film Clip, Shoulder Support, Film Meter, Film Gate, Tripod, Developing Machines, and Printers. Photoptic Import Corp., New York, N. Y.
Filed Jan. 19, 1953, Serial No. 640,960. Published July 28, 1953. Class 26.

581,341. Dry and Ready-Mixed Paints, Paint Enamel, and Varnish. Preservative Paint Co., doing business as Hobbycraft Paint Company, Seattle, Wash.
Filed Jan. 19, 1953, Serial No. 640,961. Published July 21, 1953. Class 16.

581,342. Plastic Coating in the Nature of Paint. Plas-Kem Corporation, Burbank, Calif.
Filed Jan. 23, 1953, Serial No. 641,206. Published July 7, 1953. Class 16.

581,343. Sealer for Metal Surfaces in the Nature of a Paint. The Sherwin-Williams Company, Cleveland, Ohio.
Filed Jan. 26, 1953, Serial No. 641,339. Published July 14, 1953. Class 16.

581,344. Flow Meters Used in Measuring the Flow of Gases. Waukee Engineering Company, Milwaukee, Wis.
Filed Jan. 26, 1953, Serial No. 641,362. Published July 21, 1953. Class 26.

581,345. Spectacles for Viewing Television. Julie R. Spencer, Denver, Colo.
Filed Jan. 28, 1953, Serial No. 641,473. Published July 21, 1953. Class 26.

581,346. Photographic Objective Lenses With Filters. Kern & Co. Ltd., Aarau, Switzerland.
Filed Jan. 29, 1953, Serial No. 641,513. Published July 21, 1953. Class 26.

581,347. Binoculars. Kern & Co. Ltd., Aarau, Switzerland.
Filed Jan. 29, 1953, Serial No. 641,514. Published July 21, 1953. Class 26.

581,348. Binoculars, Telescopes, Objective Lenses for Photographic and Cinematographic Apparatus. Kern & Co. Ltd., Aarau, Switzerland.
Filed Jan. 29, 1953, Serial No. 641,515. Published July 21, 1953. Class 26.

581,349. Plastic Foot Pads. Joseph Guy, Quincy, Mass.
Filed Feb. 4, 1953, Serial No. 641,723. Published July 28, 1953. Class 44.

581,350. Liquid Detergent. Hillyard Chemical Company, St. Joseph, Mo.
Filed Feb. 5, 1953, Serial No. 641,778. Published July 28, 1953. Class 52.

581,351. Chlorophyll Tooth-Paste and Ammoniated Chlorophyll Tooth-Paste. Arthur F. Lane, Ridgewood, N. J.
Filed Feb. 5, 1953, Serial No. 641,785. Published July 28, 1953. Class 51.

581,352. Adhesive, Useful, for Example, for Adhering Rubber to Other Materials. Minnesota Mining and Manufacturing Company, St. Paul, Minn.
Filed Feb. 6, 1953, Serial No. 641,854. Published July 28, 1953. Class 5.

581,353. Toilet Water. Yardley & Company Limited, London and Stratford, London, England.
Filed Feb. 6, 1953, Serial No. 641,879. Published July 28, 1953. Class 51.

581,354. Exterior Paint. Mobile Paint Mfg. Co., Inc., Mobile, Ala.
Filed Feb. 10, 1953, Serial No. 642,042. Published July 21, 1953. Class 16.

581,355. Internal Combustion Engines for Industrial and Marine Use and Outboard Motors and Parts Therefor. The Lauson Company, New Holstein, Wis.
Filed Feb. 11, 1953, Serial No. 642,079. Published June 30, 1953. Class 23.

581,356. Internal Combustion Engines for Industrial and Marine Use and Parts Therefor. The Lauson Company, New Holstein, Wis.
Filed Feb. 11, 1953, Serial No. 642,080. Published June 30, 1953. Class 23.

581,357. Preparation To Kill Rats. Raymond H. Starr, doing business as Koch Supplies, Kansas City, Mo.
Filed Feb. 13, 1953, Serial No. 642,245. Published July 28, 1953. Class 6.

581,358. Fire Hose, Water Hose, Packing Material for Valves, Faucets, and Bearings, and Belting. Quaker Pacific Rubber Company, San Francisco, Calif.
Filed Feb. 16, 1953, Serial No. 642,303. Published July 28, 1953. Class 35.

581,359. Forcible Entry Tool, Used by Firemen, in the Nature of an Axe To Force Open Doors and the Like. Mary A. Halligan, doing business as Halligan Tool Company, New York, N. Y.
Filed Feb. 19, 1953, Serial No. 642,468. Published June 30, 1953. Class 23.

581,360. Mechanical Packings and Mechanical Packing Materials, Etc. The Garlock Packing Company, Palmyra, N. Y.
Filed Feb. 20, 1953, Serial No. 642,541. Published July 28, 1953. Class 35.

581,361. Hair Lacquer. The Hair Do Company, Chicago, Ill.
Filed Feb. 20, 1953, Serial No. 642,545. Published July 28, 1953. Class 51.

581,362. Fertiliser. Soil-Tone Corporation, Plymouth, N. C.
Filed Feb. 24, 1953, Serial No. 642,701. Published July 28, 1953. Class 10.

581,363. Prepared Animal Feed for Livestock and Poultry. Consolidated Products Company, Danville, Ill.
Filed Mar. 12, 1953, Serial No. 643,537. Published July 28, 1953. Class 46.

581,364. Dental Handpieces. Denseo, Incorporated, Denver, Colo.
Filed Mar. 16, 1953, Serial No. 643,662. Published July 28, 1953. Class 44.

581,365. Acidity Stabilizing Compound for Use in the Dairy Industry. Wyandotte Chemicals Corporation, Wyandotte, Mich.
Filed Mar. 20, 1953, Serial No. 643,990. Published July 28, 1953. Class 6.

581,366. Phosphorus Compounds, Chlorates, Perchlorates, Perchloric Acid, and Oxalic Acid. Oldbury Electro-Chemical Company, Niagara Falls, N. Y.
Filed Mar. 23, 1953, Serial No. 644,056. Published July 28, 1953. Class 6.

581,367. Chemical Composition for Thinning the Concentration of Color in the Graphic Arts Product Known as Process Paste. Minnesota Mining and Manufacturing Company, St. Paul, Minn.
Filed Mar. 25, 1953, Serial No. 644,185. Published July 28, 1953. Class 6.

581,368. Chemicals and Chemical Mixtures, Solutions, and Dispersions for Use in Polymerizing, Compounding, Processing, and Stabilizing Rubbers, Plastics, and Resins. The General Tire & Rubber Company, Akron, Ohio.
Filed Mar. 26, 1953, Serial No. 644,232. Published July 28, 1953. Class 6.

581,369. Reinforcing Agent for Rubbers and Plastics, a Suspending Agent and Thickening Agent in Various Oils and Water Solutions. Godfrey L. Cabot, Inc., Boston, Mass.
Filed Mar. 27, 1953, Serial No. 644,282. Published July 28, 1953. Class 6.

581,370. Agricultural Chemicals Comprising Liquid Insecticides, Powdered Insecticides, Herbicides, Parasiticides. Chapman Chemical Company, Memphis, Tenn.
Filed Mar. 27, 1953, Serial No. 644,288. Published July 28, 1953. Class 6.

581,371. Paraffin Solvent. Midwest Processing Company, Pampa, Tex.
Filed Mar. 30, 1953, Serial No. 644,431. Published July 28, 1953. Class 6.

581,372. Seal Rings. Minnesota Rubber and Gasket Co., St. Louis Park, Minn.
Filed Apr. 1, 1953, Serial No. 644,561. Published July 28, 1953. Class 35.

581,373. Modified Carbohydrate Compounds Obtained From Spent Sulfite Cooking Liquor. Marathon Corporation, Menasha, Wis.
Filed Apr. 3, 1953, Serial No. 644,675. Published July 28, 1953. Class 6.

581,374. Ethylene Oxide, Ethylene Glycol, Etc. Mathieson Chemical Corporation, Baltimore, Md.
Filed Apr. 3, 1953, Serial No. 644,678. Published July 28, 1953. Class 6.

581,375. Electrical Hearing Aids and Parts Thereof. Zenith Radio Corporation, Chicago, Ill.
Filed Apr. 3, 1953, Serial No. 644,705. Published July 28, 1953. Class 44.

581,376. Disposable Venoclysis Set Consisting of a Closure Piercing Needle, Drip Chamber, Flexible Tubing With Intravenous Needle or Needle Adaptor, and Pinch Clamp. Abbott Laboratories, North Chicago, Ill.
Filed Apr. 29, 1953, Serial No. 646,093. Published July 28, 1953. Class 44.

581,377. Catamenial Napkins. Maude M. Thornton, Buffalo, N. Y.
Filed Apr. 30, 1953, Serial No. 646,242. Published July 28, 1953. Class 44.

Service Marks

581,378. Engineering Services—Namely, Research, Development, Design, Testing, Consultation, and Advising in Connection With Chemical, Food, Metallurgical, and Mineral Processes and in Connection With Chemical Processes Related to Said Food, Metallurgical, and Mineral Processes. The Merrill Company, San Francisco, Calif.
Filed Aug. 2, 1949, Serial No. 582,844. Published Nov. 4, 1952. Class 100.

581,379. Engineering Services—Namely, Research, Development, Design, Testing, Consultation, and Advising in Connection With Chemical, Food, Metallurgical, and Mineral Processes and in Connection With Chemical Processes Related to Said Food, Metallurgical, and Mineral Processes. The Merrill Company, San Francisco, Calif.
Filed Aug. 2, 1949, Serial No. 582,845. Published Nov. 4, 1952. Class 100.

581,380. Dressing, Dyeing, Blending of Furs. A. Hollander & Son, Inc., Newark, N. J.
Filed Nov. 25, 1949, Serial No. 588,299. Published July 14, 1953. Class 106.

581,381. Services Rendered to Insurance Companies and Other Business Organizations Having Their Head Offices Located in Various States, Etc. California Tax and Assessment Corporation of San Francisco, doing business under the firm name and style of California Tax Agency, San Francisco, Calif.
Filed Nov. 4, 1950, Serial No. 605,892. Published July 7, 1953. Class 101.

581,382. Finishing of Textile Fabrics in the Piece to Impart Water Repellency Thereto. United Merchants and Manufacturers, Inc., New York, N. Y.
Filed Apr. 17, 1951, Serial No. 612,775. Published July 14, 1953. Class 106.

581,383. Constructing and Repairing Industrial and Residential Buildings. P. Kretzer & Son, Inc., Flushing, N. Y.
Filed Jan. 25, 1952, Serial No. 624,089. Published July 14, 1953. Class 103.

581,384. Entertainment Service—Namely, Comedy, Singing, and Dancing. Sarah Ophelia Cannon, Nashville, Tenn.
Filed Feb. 21, 1952, Serial No. 625,333. Published July 14, 1953. Class 107.

581,385. Restaurant Services and Providing Lodgings for Travelers. Albert Pick Hotels, Inc., Miami Beach, Fla.
Filed Mar. 10, 1952, Serial No. 626,217. Published July 7, 1953. Class 100.

581,386. Entertainment Service in the Nature of a Musical Variety Television Broadcast Program. Kated Company, New York, N. Y.
Filed Mar. 28, 1952, Serial No. 627,192. Published July 14, 1953. Class 107.

581,387. Dyeing and Printing Piece Goods. The Kenyon Piece Dyeworks, Inc., Kenyon, R. I.
Filed July 24, 1952, Serial No. 632,989. Published July 14, 1953. Class 106.

581,388. Chemically Treating Plain Goods of Others to Create a Quilted Effect on the Goods in Color. Associated Dye & Print Co. Inc., Paterson, N. J.
Filed Oct. 6, 1952, Serial No. 636,192. Published July 14, 1953. Class 106.

581,389. Treating Rayon and Acetate Suiting Fabrics of Others to Impart a Crease Resistant Finish Thereto. R. W. Bates Piece Dye Works, Inc., Garnerville, N. Y.
Filed Nov. 6, 1952, Serial No. 637,698. Published July 14, 1953. Class 106.

581,390. Rebuilding, Rewinding, and Repairing of Electric Motors and Transformers for Others. Dowser Electric Machinery Works, Inc., Mount Vernon, Ill.
Filed Dec. 29, 1952, Serial No. 640,108. Published July 14, 1953. Class 103.

581,391. Services Rendered Manufacturers of All Kinds of Fabrics Containing "Acrilan" in Admixture With Other Fibers Both Natural and Synthetic—Namely, Bleaching, Dyeing, and Heat Setting. Bradford Dyeing Association (U. S. A.), Westerly, R. I., and New York, N. Y.
Filed Jan. 8, 1953, Serial No. 640,492. Published July 14, 1953. Class 106.

581,392. Fireproofing Canvas and Fabrics. American Waterproofing Corp., New Haven, Mo.
Filed Jan. 21, 1953, Serial No. 640,996. Published July 14, 1953. Class 106.

Collective Mark

581,393. Recruiting and Pledging Prospective Members of the Chapters of a National Collegiate Fraternity. Sigma Phi Epsilon Fraternity, Richmond, Va.
Filed May 24, 1950, Serial No. 598,045. Published July 21, 1953. Class 100.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

581,394. (Class 39. Clothing.) R. H. Macy & Co., Inc., assignee of L. Bamberger & Co., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 4, 1947; amended to application, Supplemental Register, Oct. 3, 1952, Serial No. 549,331.

L. BAMBERGER & CO.

ONE OF AMERICA'S GREAT STORES

Applicant claims ownership of Registration No. 235,443.

For Clothing for Men—Namely, Chauffeurs' Suits, Bath Robes, Puttees, Dusters, Bathing Suits, Caps, Hats, Coats, Vests, Jumpers, Jackets, Knickers, Lounging Robes, Overcoats, Mackinaws, Overalls, Slacks, Trousers, Raincoats, Slickers, Riding Breeches, Under-Shirts, Outer-Shirts, Smocks, Sweaters; Men's Suits, Men's Sportswear—Namely, Sweaters, Jackets, Pants and Hats; Men's Industrial and Domestic Uniforms; Butlers' Apparel—Namely, Butlers' Coats, Butlers' Trousers, Butlers' Shirts, Butlers' Gloves; Surgeons' Coats, and Barbers' Coats; Clothing for Women—Namely, Aprons, Bath Robes, Bathing Suits, Bathing Wraps, Caps, Hats, Bonnets, Coats, Skirts, Blouses, Knickers, Jackets, House Robes, House Dresses, Raincoats, Rain Capes, Smocks, Sweaters, Suits: Sportswear—Namely, Sweaters, Jackets, Slacks, Skirts, Blouses, and Hats; Industrial and Domestic Uniforms: Maids', Nurses', and House Aprons and Caps; Middies, Middy Suits, Dressing Gowns, Slacks; Mourning Apparel—Namely, Mourning Dresses, Mourning Veils, Mourning Gloves; Riding Habits, Over and Under Skirts, Smoking Suits, Tennis Dresses, Bridal Gowns, Wrappers, Shawls, Scarfs, Capes, and Evening Wraps; and Clothing for Children and Infants—Namely, Aprons, Bath Robes, Bathing Suits, Bathing Wraps, Caps, Hats, Knickers, Creepers, Lounging Robes, Overcoats, Mackinaws, Overalls, Coveralls, Play Suits, Bonnets, Raincoats, Rain Capes, Slickers, Smocks, Sweaters, Middy Suits, Dressing Gowns, Slacks, Scarfs, Wrappers, and Capes.

Claims use since at least 1915.

581,395. (Class 38. Prints and Publications.) Howell J. Yogg, doing business as Yogg and Company, Newark, N. J. Original filed, act of 1946, Principal Register, Apr. 28, 1950; amended to application, Supplemental Register, Dec. 11, 1952, Serial No. 596,546.

LIKKER-STICKERS

For Printed Tabs for Advertising Beverages To Be Used in Connection With Menus or the Like.

Claims use since Nov. 26, 1946.

581,396. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) E. P. Lawson Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, May 17, 1950; amended to application, Supplemental Register, Apr. 29, 1953, Serial No. 597,617.

LAWSON

For Paper Cutting Machinery and Parts Thereof, Paper Drilling Machinery, and Parts Thereof.

Claims use since Mar. 15, 1946.

581,397. (Class 38. Prints and Publications.) Famous Artists Schools, Inc., New York, N. Y., by change of name from Institute of Commercial Art, Inc. Original filed, act of 1946, Principal Register, May 27, 1950; amended to application Supplemental Register, Mar. 30, 1953, Serial No. 598,255.

Famous Artists Course

For Lessons, Booklets, and Brochures.

Claims use since Sept. 14, 1948.

581,398. (Class 18. Medicines and Pharmaceutical Preparations.) Charles Arnold, doing business as Arnold Pharmacy, Chicago, Ill. Original filed, act of 1946, Principal Register, July 13, 1950; amended to application, Supplemental Register, Sept. 5, 1952, Serial No. 600,562.

BRONCHI-LIXIR

For Cough Medicine.

Claims use since June 1, 1950.

581,399. (Class 28. Jewelry and Precious-Metal Ware.) Aktieselskabet A. Dragsted, Copenhagen, Denmark. Original filed, act of 1946, Principal Register, Sept. 21, 1950; amended to application, Supplemental Register, May 26, 1953, Serial No. 603,829.

A. DRAGSTED

Applicant claims ownership of Danish Registration No. 8,481—1947, dated July 5, 1947.

For Jewelry for Personal Wear Not Including Watches—Namely, Finger and Signet Rings, Earclips, Earrings, Bracelets, Beads, Badges Made of or Plated With Precious Metal, Bangles, Brooches, Necklaces, Charms and Pendants, Watch Chains, and Tie-Pins and Cuff-Links Made of or Plated With Precious Metal; Flatware and Hollowware—Namely, Tableware Made of, or Plated With, or Ornamented With Precious Metals, Including Frames, Goblets, Cups, Mugs, Bowls, Dishes, Vases, Bread Baskets, Flower Baskets, Fruit Baskets, Toast Racks, Napkin Rings, Coasters, Cocktail Shakers, Wine Coolers, Plates, Entree Dishes, Jardinieres, Tureens, Sauce Boats, Finger Bowls, Sugar Basins, Cream Jugs, Condiment Sets, Salt Cellars, Pepper Boxes, Mustard Pots, Vinegar Bottles, and Egg Cups; Toilet Boxes, Jewel Cases, Bonbonnieres and Scent Bottles Made of or Plated With Precious Metals, Also Cutlery Made of or Plated With Gold or Silver—Namely, Dinner Forks, Dinner Spoons, Dinner Knives, Dessert Forks, Dessert Spoons, Dessert Knives, Luncheon Forks, Luncheon Knives, Cake Forks, Cake Knives, Fruit Forks, Fruit Knives, Children's Forks, Children's Spoons, Children's Knives, Pushers, Tea Spoons, Coffee Spoons, Mocha Spoons, Egg Spoons, Salt Spoons, Compote Spoons, Sugar Spoons, Jam Spoons, Bouillon Spoons, Pie Spoons, Sauce Spoons, Soup Spoons, Iced Tea Spoons, Potato Spoons, Mustard Spoons, Jelly Spoons, Marmalade Spoons, Vegetable Spoons, Serving Spoons, Berry Spoons, Grapefruit Spoons, Nut Spoons, Baby Spoons, Tomato Knives, Cheese Knives, Cheese Cutters, Butter Knives, Orange Knives, Crab Knives, Kitchen Knives, Cabaret Forks, Lobster Forks, Sardine Forks, Herring Forks, Oyster Forks, Lemon Forks, Pickle Forks, Salad Forks, Serving Forks, Date Forks, Meat Forks, Pastry Forks, Vegetable Forks, Tureen Ladles, Soup Ladles, Sauce Ladles, Cream Ladles, Fish Serving Sets, Fish Carving Sets, Salad Sets, Herring Sets, Roast Carving Sets, Pie Servers, Pastry Servers, Servers for Fried Eggs, Cake Servers, Cake Slicers, Sugar or Candy Tongs, Butter Spreaders, Sugar Sifters, Sandwich Tongs, Nut Pickers, Fish Forks, Fish Knives.

Claims use since July 23, 1946; and since July 23, 1946, in commerce between foreign nations and the United States.

581,400. (Class 18. Medicines and Pharmaceutical Preparations.) Mountain Folks Remedy Company, Forsyth, Mo. Original filed, act of 1946, Principal Register, Feb. 19, 1951; amended to application, Supplemental Register, July 24, 1953, Serial No. 610,291.

"ITCHY-ITCH"

For Medical Preparation for the Relief of Athlete's Foot, Minor Cuts and Burns, Mange, Insect Bites, and External Rectal Itching.

Claims use since Nov. 15, 1950.

581,401. (Class 51. Cosmetics and Toilet Preparations.) Parfums Charbert Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 3, 1951; amended to application, Supplemental Register, Oct. 24, 1952, Serial No. 610,798.

PINCH BOTTLE

For Perfumes, Cologne, Lotion for the Face and Hands, Cold and Vanishing Cream, and Make-Up Base.

Claims use since Jan. 2, 1951.

581,402. (Class 46. Foods and Ingredients of Foods.) Boston Canning Company Proprietary Limited, Melbourne, Victoria, Australia. Filed Apr. 18, 1951, Serial No. 612,786.

Boston

Applicant claims ownership of Australian Registration No. 84,700, dated Sept. 20, 1945.

For Canned Meats and Canned Puddings—Namely, Fruit Puddings Containing as Ingredients Dried Fruits (Such as Raisins, Sultanas, Currants and Dates, and Mixtures Thereof) Sugar and Flour, and Meat Pudding Having as Ingredients Beef, Mutton, Pork, and Mixtures Thereof, Flour and Spices.

581,403. (Class 50. Merchandise Not Otherwise Classified.) Sign-Riter, Inc., Buffalo, N. Y. Original filed, act of 1946, Principal Register, Aug. 4, 1951; amended to application, Supplemental Register, June 14, 1952, Serial No. 617,354.

SIGN-RITER

For Combination Brush and Ink Set, Used by Storekeepers for Making Quick Signs.

Claims use since Jan. 20, 1950.

581,404. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Morse Sewing Machine and Supply Corp., New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 22, 1951; amended to application, Supplemental Register, Apr. 16, 1953, Serial No. 617,967.

MORSE

For Sewing Machines.

Claims use since July 6, 1951.

581,405. (Class 3. Baggage, Animal Equipments, Portfolios, and Pocketbooks.) C. F. Rumpp & Sons, Philadelphia, Pa. Original filed, act of 1946, Principal Register, Aug. 30, 1951; amended to application, Supplemental Register, June 12, 1952, Serial No. 618,244.

Match-Mates

For Personal Leather Goods—Namely, Leather Wallets, Billfolds, Key Cases, Stud Boxes, and Portfolios.
Claims use since April 1949.

581,406. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) O P W Corporation, Cincinnati, Ohio. Original filed, act of 1946, Principal Register, Sept. 11, 1951; amended to application, Supplemental Register, July 27, 1953, Serial No. 618,649.

KAMLOK

For Hose and Faucet Adapters and Couplers and Hose Coupler Handles.
Claims use since Dec. 29, 1950.

581,407. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Aeroquip Corporation, Jackson, Mich. Original filed, act of 1946, Principal Register, Oct. 12, 1951; amended to application, Supplemental Register, Aug. 14, 1953, Serial No. 620,072.

Always first

For Metal Fittings and Couplings for Fluid Lines—Namely, Hose Fittings and Pipe Fittings for Fluid; Hose, Pipe, and Conduit Fluid Couplings; Combination Valve and Couplings; Pressure Sealing Fluid Valves and Couplings; Automatic Fluid Couplings; Combination Fluid Couplings With Valves; Fluid Disconnect Couplings and Hermetically Sealed Disconnect Couplings; and Overload Disconnect Fluid Couplings and Valves; Overload Combination Fluid Couplings and Automatic Valves; Farm Tractor to Implement Fluid Couplings; and Automatic Disconnect Fluid Couplings and Automatic Valves.
Claims use since June 1950.

581,408. (Class 46. Foods and Ingredients of Foods.) Staley Milling Company, North Kansas City, Mo. Original filed, act of 1946, Principal Register, Nov. 10, 1951; amended to application, Supplemental Register, July 20, 1953, Serial No. 621,108.

SCRAPPY

For Dog Food.
Claims use since Nov. 7, 1951.

581,409. (Class 46. Foods and Ingredients of Foods.) Edith M. Hamman, doing business as Hilo House, Chicago, Ill. Original filed, act of 1946, Principal Register, Nov. 13, 1951; amended to application, Supplemental Register, July 3, 1953, Serial No. 621,145.

Hilo House

For Fruit Cake.
Claims use since Oct. 23, 1951.

581,410. (Class 18. Medicines and Pharmaceutical Preparations.) Kingsley-Erb and Company, Arcadia, Calif. Original filed, act of 1946, Principal Register, Nov. 14, 1951; amended to application, Supplemental Register, Nov. 12, 1952, Serial No. 621,210.

HELP-A-KAF

The drawing is lined for the color blue, but color is not claimed as a feature of the mark.
For Preparation for Inhibiting Scours, Colds, and Pneumonia in Calves.
Claims use since June 27, 1951.

581,411. (Class 46. Foods and Ingredients of Foods.) Zion Industries, Inc., Zion, Ill. Original filed, act of 1946, Principal Register, Nov. 14, 1951; amended to application, Supplemental Register, July 14, 1953, Serial No. 621,243.

Can-D-Pak

For Candies.
Claims use since July 17, 1951.

581,412. (Class 46. Foods and Ingredients of Foods.) Bon-Ton Bakeries Inc., Boseman, Mont. Original filed, act of 1946; Principal Register, Feb. 26, 1952; amended to application, Supplemental Register, June 10, 1953, Serial No. 625,517.

LOOK YOUNGER LIVE LONGER

For Bread.
Claims use since Feb. 15, 1952.

581,413. (Class 50. Merchandise Not Otherwise Classified.) Ad-O-Meter Corporation, Ferndale, Mich. Original filed, act of 1946, Principal Register, Apr. 16, 1952; amended to application, Supplemental Register, June 25, 1953, Serial No. 628,138.

AD-O-METER

For Advertising Display Rack To Be Attached to Parking Meters So Constructed as To Receive and Hold Posters and Other Printed Advertising Displays and To Readily Permit the Removal and/or Replacement of Such Posters.
Claims use since July 20, 1951.

581,414. (Class 3. Baggage, Animal Equipments, Portfolios, and Pocketbooks.) Statler Mfg. Co., Chicago, Ill. Original filed, act of 1946, Principal Register, May 10, 1952; amended to application, Supplemental Register, Mar. 19, 1953, Serial No. 629,533.

Statler

For Transparent Plastic Wallet Inserts for Holding Identification Cards.
Claims use since Aug. 10, 1944.

581,415. (Class 51. Cosmetics and Toilet Preparations.) Rexall Drug Company, doing business as Lorie, Los Angeles, Calif. Original filed, act of 1946, Principal Register, June 19, 1952; amended to application, Supplemental Register, July 10, 1953, Serial No. 631,438.

SEQUOIA

For Bath Oil.
Claims use since Feb. 20, 1952.

581,416. (Class 43. Thread and Yarn.) Bishop's Mills Inc., New York, N. Y. Original filed, act of 1946, Principal Register, July 5, 1952; amended to application, Supplemental Register, Aug. 7, 1953, Serial No. 632,146.

FANSAY

For Dress Yarns.
Claims use since Sept. 27, 1951.

581,417. (Class 38. Prints and Publications.) Popular Mechanics Company, Chicago, Ill. Original filed, act of 1946, Principal Register, July 9, 1952; amended to application, Supplemental Register, July 15, 1953, Serial No. 632,325.

FARM MECHANICS

Applicant claims ownership of Registrations Nos. 101,201, 504,861, and others.
For Magazine Published Periodically.
Claims use since June 13, 1952.

581,418. (Class 52. Detergents and Soaps.) The Wolcott Company, Hartford, Conn. Original filed, act of 1946, Principal Register, July 26, 1952; amended to application, Supplemental Register, Aug. 7, 1953, Serial No. 633,135.

KITCHENKLEEN

For Cleaning Compound.
Claims use since July 8, 1952.

581,419. (Class 52. Detergents and Soaps.) The Wolcott Company, Hartford, Conn. Original filed, act of 1946, Principal Register, July 26, 1952; amended to application, Supplemental Register, Aug. 7, 1953, Serial No. 633,136.

PANKLEEN

For Cleaning Compound.
Claims use since July 8, 1952.

581,420. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Sewing Machines Sales Corp., New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 28, 1952; amended to application, Supplemental Register, Apr. 17, 1953, Serial No. 637,290.

Modernaire

For Sewing Machines.
Claims use since Dec. 10, 1948.

581,421. (Class 38. Prints and Publications.) American Lumberman, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Nov. 7, 1952; amended to application, Supplemental Register, July 22, 1953, Serial No. 637,741.

HOME
Maintenance & Improvement

For Magazine.
Claims use since July 18, 1951.

581,422. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Adam M. Foti, Boston, Mass. Filed Nov. 14, 1952, Serial No. 638,074.

Monogram Club

For Textile Goods—Namely, Towels, Blankets, Table Cloths, Napkins, Bedspreads, Luncheon Sets, and Bath Rugs.
Claims use since Aug. 1, 1951.

581,423. (Class 5. Adhesives.) The Buckeye Products Company, Cincinnati, Ohio. Original filed, act of 1946, Principal Register, Nov. 28, 1952; amended to application, Supplemental Register, Apr. 14, 1953, Serial No. 638,690.

STIK FAST

For Core Paste for Adhesively Securing Foundry Sand.
Claims use since Mar. 15, 1951.

581,424. (Class 38. Prints and Publications.) Mark L. Morris, Topeka, Kans. Original filed, act of 1946, Principal Register, Dec. 19, 1952; amended to application, Supplemental Register, July 20, 1953, Serial No. 639,767.

PRESCRIPTION DIETS

For Periodical Published From Time to Time.
Claims use since Aug. 1, 1951.

581,425. (Class 38. Prints and Publications.) Harold S. Wynn, Pittaford, N. Y. Filed Feb. 9, 1953, Serial No. 642,446.

PATENT RESEARCH SERVICE

For Publication of Abstracts of Patents Issued Monthly or From Time to Time.
Claims use since June 15, 1950.

581,426. (Class 46. Foods and Ingredients of Foods.) H. C. Brill Company, Inc., Newark, N. J. Original filed, act of 1946, Principal Register, Mar. 19, 1953; amended to application, Supplemental Register, June 5, 1953, Serial No. 643,888.

***Brill's* BITTER SWEET**

Applicant disclaims the words "Bitter Sweet" apart from the mark shown on the drawing. Applicant claims ownership of Registrations Nos. 264,264, 252,067, and others.

For Icings for Cakes.
Claims use since July 26, 1928.

581,427. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) A. M. Andrews Co., Portland, Oreg. Original filed, act of 1946, Principal Register, Mar. 23, 1953; amended to application, Supplemental Register, Aug. 5, 1953, Serial No. 644,003.

ANDREWS

For Lawn and Garden Hose Sprinklers.
Claims use since Mar. 10, 1952.

TRADE-MARK REGISTRATIONS RENEWED

40,420. IDEAL. Registered May 19, 1903. The J. W. Miller Co., Mill-Hook Farm, near Freeport, Ill. Renewed May 19, 1953, to H. D. Hudson Manufacturing Company, Chicago, Ill., a corporation of Minnesota. Incubators and Brooders. Class 50.

40,795. "CN" AND DESIGN. Registered July 21, 1903. West Disinfecting Co., New York, N. Y. Re-renewed July 21, 1953, to West Disinfecting Company, Long Island City, N. Y., a corporation of New York. Disinfectants. Class 6.

91,914. "EL BOLEADOR" AND DESIGN. Registered June 3, 1913. Sociedad Anonima F. Krauch & Co., Societe Anonyme, Antwerp, Belgium. Re-renewed June 3, 1953, to Sociedad Anonima F. Krauch & Co., Asuncion, Paraguay, an incorporated joint stock company of Paraguay. Essence of Petits Grains, All Kinds of Essences and Oils for Making Perfumery, and Tooth Soap. Class 51.

94,364. FISCHER. Registered Dec. 2, 1913. J. & C. Fischer. Re-renewed Dec. 2, 1953, to Aeolian American Corporation, New York, N. Y., a corporation of New York. Grand and Upright Pianos. Class 36.

293,707. LANCO. Registered May 3, 1932. Lanair Company, Chicago, Ill., a corporation of Illinois. Renewed May 3, 1952. Sanitary Napkins. Class 44.

301,716. S P. Registered Mar. 14, 1933. Siemens-Planiawerke A. G. fur Kohlefabrikate, Berlin-Lichtenberg, Germany. Renewed Mar. 14, 1953, to Siemens-Planiawerke A. G. fur Kohlefabrikate, Meitingen, Germany, a corporation organized under the laws of Germany. Asbestos, Clay, Silica, Silicon Carbide, Etc. Class 1.

302,371. SPEEDICOPIES. Registered Apr. 18, 1933. Pacific Manifolding Book Company, Emeryville, Calif. Renewed Apr. 18, 1953, to Moore Business Forms, Inc., Niagara Falls, N. Y., a corporation of Delaware. Paper and Stationery, Particularly Units Consisting of Assembled Sheets of Paper With or Without Carbon Paper. Class 37.

304,727. ELGIN CRAFT. Registered July 18, 1933. Elgin American Manufacturing Co. Renewed July 18, 1953, to Illinois Watch Case Co., Elgin, Ill., a corporation of Illinois. Pocket Lighters, Manually Operated and Made of Base Metal Decorated With Chromium and/or Enamel. Class 8.

304,816. "WYANDOTTE COKE" AND DESIGN. Registered July 18, 1933. Michigan Alkali Company. Renewed July 18, 1953, to Wyandotte Chemicals Corporation, Wyandotte, Mich., a corporation of Michigan. Coke. Class 1.

305,033. TIP TOP. Registered July 25, 1933. Red Top Steel Post Company. Renewed July 25, 1953, to Inland Steel Company, Chicago, Ill., a corporation of Delaware. Metal Fencing. Class 13.

305,147. "SHOW BOAT" AND DESIGN. Registered Aug. 8, 1933. The Wall-Rogalsky Milling Company, McPherson, Kans., a corporation of Kansas. Renewed Aug. 8, 1953. Self-Rising Flour. Class 46.

305,161. WELDELL. Registered Aug. 8, 1933. Taylor Forge & Pipe Works, Cicero, Ill., a corporation of Illinois. Renewed Aug. 8, 1953. Metal Pipe and Pipe Fittings. Class 13.

305,229. SYLVAN SEAL. Registered Aug. 8, 1933. Silver Seal Dairy Products Company. Renewed Aug. 8, 1953, to Sylvan Seal Milk, Inc., Philadelphia, Pa., a corporation of Delaware. Dairy Products—Namely, Milk, Cream, and Cheese, and Particularly for Such Products Distributed in Paper Receptacles. Class 46.

305,325. "TERM X ADOR" AND DESIGN. Registered Aug. 15, 1933. Matthew Russell, doing business as X-Termador Company, Springfield, Mass. Renewed Aug. 15, 1953. Electrically Operated Apparatus for Spraying Liquids and Parts Thereof. Class 21.

305,543. "JOHN H. WOODBURY INC." AND DESIGN. Registered Aug. 22, 1933. John H. Woodbury, Inc. Renewed Aug. 22, 1953, to The Andrew Jergens Company, Cincinnati, Ohio, a corporation of Ohio. Toilet Preparations—Namely, Facial Cream, Facial Powder, Etc. Class 51.

305,546. WOODBURY'S. Registered Aug. 22, 1933. John H. Woodbury, Inc. Renewed Aug. 22, 1953, to The Andrew Jergens Company, Cincinnati, Ohio, a corporation of Ohio. Toilet Preparations—Namely, Facial Cream, Facial Powder, Etc. Class 51.

305,619. "GROVE STREET". Registered Aug. 22, 1933. White. Renewed Aug. 22, 1953, to White, Inc., New Haven, Conn., a corporation of Connecticut. Men's Hats. Class 39.

305,620. "ELM STREET". Registered Aug. 22, 1933. White. Renewed Aug. 22, 1953, to White, Inc., New Haven, Conn., a corporation of Connecticut. Men's Hats. Class 39.

305,621. "COLLEGE STREET". Registered Aug. 22, 1933. White. Renewed Aug. 22, 1953, to White, Inc., New Haven, Conn., a corporation of Connecticut. Men's Hats. Class 39.

305,625. "HIGH STREET". Registered Aug. 22, 1933. White. Renewed Aug. 22, 1953, to White, Inc., New Haven, Conn., a corporation of Connecticut. Men's Hats. Class 39.

305,630. "CHAPEL STREET". Registered Aug. 22, 1933. White. Renewed Aug. 22, 1953, to White, Inc., New Haven, Conn., a corporation of Connecticut. Men's Hats. Class 39.

305,698. THIGH-MOLD. Registered Aug. 22, 1933. Mock, Judson, Voehringer Co., Inc. Renewed Aug. 22, 1953, to Mojud Hosiery Company, Inc., Long Island City, N. Y., a corporation of Delaware. Hosiery. Class 39.

305,714. ROBURAL. Registered Aug. 22, 1933. Dr. Rudolf Reiss Rheumasan- und Lenicet-Fabrik, Berlin-Charlottenburg, Germany. Renewed Aug. 22, 1953, to Conrad Charley Notter, doing business as Dr. Rudolf Reiss Chemische Werke, Berlin, Germany. Dietetical Foods—Namely, General Tonics and Stomachics, Etc. Class 18.

305,751. PEAU DE CHENILLE. Registered Aug. 22, 1933. J. B. Martin Company, Norwich, Conn. Renewed Aug. 22, 1953, to Martin Fabrics Corporation, New York, N. Y., a corporation of New York. Velvet in the Piece. Class 42.

305,799. "FINEST OLD TOM GIN" ETC. AND DESIGN. Registered Aug. 22, 1933. J. & W. Nicholson & Co. Limited, doing business as J. S. Smith Druce & Co., London, England, a company incorporated under the laws of Great Britain. Renewed Aug. 22, 1953. Gin and Other Potable Distilled Liquors. Class 49.

306,150. "DENTON" AND DESIGN. Registered Sept. 12, 1933. Dr. Denton Sleeping Garment Mills. Renewed Sept. 12, 1953, to Denton Sleeping Garment Mills, Inc., Centreville, Mich., a corporation of Michigan. Sleeping Garments Including One and Two Piece Sleeping Suits, Sleeping Hoods, and Sleeping Bags. Class 39.

306,242. "NICHOLSON FILE CO." ETC. AND REPRESENTATION OF BOX LINED FOR GRAY. Registered Sept. 12, 1933. Nicholson File Company, Providence, R. I., a corporation of Rhode Island. Renewed Sept. 12, 1953. Files and Rasps. Class 23.

306,260. REPRESENTATION OF WOMAN AT SPINNING WHEEL AND CHILD. Registered Sept. 12, 1933. S. A. Newall & Sons, London, England. Renewed Sept. 12, 1953, to S. A. Newall & Sons Limited, London, England, and Stornoway, Scotland, a company incorporated under the laws of Great Britain. Cloths and Stuffs of Wool, Worsted, Hair, and/or Combinations Thereof. Class 42.

306,355. REPRESENTATION OF OUTLINE OF SEED BAG. Registered Sept. 19, 1933. Germain Seed & Plant Company. Renewed Sept. 19, 1953, to Germain's, Inc., Los Angeles, Calif., a corporation of California. Flower and Vegetable Seeds. Class 1.

306,488. MACPHERSON'S CLUNY SCOTCH WHISKY. Registered Sept. 19, 1933. John E. McPherson & Sons. Renewed Sept. 19, 1953, to John E. McPherson & Sons Limited, Newcastle-upon-Tyne, England, a company incorporated under the laws of Great Britain. Whisky. Class 49.

306,559. REPLICA OF BLACK PANTHER. Registered Sept. 26, 1933. J. B. Martin Company, Norwich, Conn. Renewed Sept. 26, 1953, to Martin Fabrics Corporation, New York, N. Y., a corporation of New York. Velvet in the Piece. Class 42.

306,891. "FISCHER BAKING CO." AND DESIGN. Registered Oct. 3, 1933. Fischer Baking Company, Newark, N. J., a corporation of New Jersey. Renewed Oct. 3, 1953. Bread. Class 46.

306,934. "SUPERFLO" AND DESIGN. Registered Oct. 3, 1933. Superior Piston Ring Company, Inc., Detroit, Mich., a corporation of Michigan. Renewed Oct. 3, 1953. Oil Rings Made of Metal for Engine Pistons. Class 35.

307,283. "TEMPLE STREET". Registered Oct. 24, 1933. White. Renewed Oct. 24, 1953, to White, Inc., New Haven, Conn., a corporation of Connecticut. Men's Hats. Class 39.

307,392. DOW'S PORT. Registered Oct. 24, 1933. Silva & Cosens, Limited, London, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Renewed Oct. 24, 1953. Port Wine. Class 47.

307,429. "CRAWFORD'S" ETC. AND DESIGN. Registered Oct. 24, 1933. A. & A. Crawford. Renewed Oct. 24, 1953, to A. & A. Crawford Limited, Leith, Scotland, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Scotch Whisky. Class 49.

307,494. "SACHEM STREET". Registered Oct. 24, 1933. White. Renewed Oct. 24, 1953, to White, Inc., New Haven, Conn., a corporation of Connecticut. Men's Hats. Class 39.

307,495. "PROSPECT STREET". Registered Oct. 24, 1933. White. Renewed Oct. 24, 1953, to White, Inc., New Haven, Conn., a corporation of Connecticut. Men's Hats. Class 39.

307,508. "PH-PLUS". Registered Oct. 24, 1933. The Mathieson Alkali Works, Inc., New York, N. Y. Renewed Oct. 24, 1953, to Mathieson Chemical Corporation, Baltimore, Md., a corporation of Virginia. Specially Prepared Fused Soda Ash To Be Used for Water-Softening Purposes. Class 6.

308,330. KIRCHENGARTEN. Registered Nov. 28, 1933. B. M. & J. Strauss Limited, London, England, a limited liability company registered under the laws of Great Britain. Renewed Nov. 28, 1953. Rhine Wine. Class 47.

308,331. SONNENBLICK. Registered Nov. 28, 1933. B. M. & J. Strauss Limited, London, England, a limited liability company registered under the laws of Great Britain. Renewed Nov. 28, 1953. Still and Sparkling Rhine and Moselle Wine. Class 47.

308,419. DICKIE DARE. Registered Dec. 5, 1933. The Associated Press, New York, N. Y., a corporation of New York. Renewed Dec. 5, 1953. Newspaper Cartoons, Published in a Continuing Series. Class 38.

308,562. OLD COACHING PORT. Registered Dec. 12, 1933. B. M. & J. Strauss Limited, London, England, a limited liability company registered under the laws of Great Britain. Renewed Dec. 12, 1953. Port Wine. Class 47.

308,612. VEO. Registered Dec. 12, 1933. The Best Foods, Inc., New York, N. Y., and Bayonne, N. J. Renewed Dec. 12, 1953, to The Best Foods, Inc., New York, N. Y., a corporation of New Jersey. Shortening. Class 46.

308,660. ELECTRUNITE. Registered Dec. 12, 1933. Steel and Tubes, Inc. Renewed Dec. 12, 1953, to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey. Electrically Welded Pipe, Conduit, and Tubing, Etc. Class 13.

308,773. VALGORA. Registered Dec. 19, 1933. B. Kuppenheimer & Co., Inc., Chicago, Ill., a corporation of Illinois. Renewed Dec. 19, 1953. Men's and Boys' Ready to Wear Coats, Vests, Trousers, and Overcoats. Class 39.

308,932. AMBASSADOR. Registered Dec. 26, 1933. Associated Merchandising Corporation. Renewed Dec. 26, 1953, to The Associated Merchandising Corporation, New York, N. Y., a corporation of New York. Cotton, Linen, and Woolen Piece Goods, Wool and Cotton Blankets, Comforters, Etc. Class 42.

309,139. WONDER MAID. Registered Jan. 2, 1934. Mutual Garment Company. Renewed Jan. 2, 1954, to Wonder Maid, Inc., St. Louis, Mo., a corporation of Missouri. Women's Wearing Apparel—Namely, Costume Slips, Night Gowns, Dance Sets, Etc. Class 39.

309,265. HISTEEN. Registered Jan. 9, 1934. The Histeen Corporation, Chicago, Ill. Renewed Jan. 9, 1954, to The Kenton Pharmacal Co., Covington, Ky., a corporation of Kentucky. Medical Preparation Used in the Treatment of Asthma, Hay Fever, and Bronchitis. Class 18.

309,287. "ANGEL SKIN" AND DESIGN. Registered Jan. 9, 1934. John N. McMath, doing business as The Angel Skin Co., Larchmont, N. Y. Renewed Jan. 9, 1954, to Pond's Extract Company, New York, N. Y., a corporation of Delaware. Astringents, astringent Cerates, Bleach Creams, Beauty Creams, Etc. Class 51.

309,379. LYKOS. Registered Jan. 9, 1934. Dorothy K. Kerr, doing business as Felix Tempest Company, Brooklyn, N. Y. Renewed Jan. 9, 1954. Medicated Salve for External and Internal Use for Relief of Headache, Etc. Class 51.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

578,980. ARDOCHECK. Registered Aug. 25, 1953. Bacharach Industrial Instrument Company, Pittsburgh, Pa. Control Instruments Employed To Regulate Heat Output of Combustion Heating Facilities Such as Stoves, Heaters, Furnaces, Etc. Class 26. Corrected as follows: Column 1, line 12, description of merchandise, for "THERMOPLASTICALLY" read *THERMOSTATICALLY*.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 2

RECEPTACLES

Reg. No. 418,100. Registered Dec. 4, 1945. The Lord Baltimore Press, Baltimore, Md., a corporation of Maryland. Republished by registrant.

FIDEL-I-TONE

For Boxes and Cartons, Both Made of Cardboard or Paper.
Claims use since Aug. 25, 1944.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 94,123. Registered Nov. 4, 1913. L. Sonneborn Sons, Inc., New York, N. Y., a corporation of Delaware. Republished by registrant.

LAPIDOLITH

For Solution for Rendering Concrete Constructions Abrasion-Proof and Waterproof, and Known in the Trade as a Hardener.
Claims use since September 1912.

Reg. No. 303,311. Registered May 23, 1933. Publicker Commercial Alcohol Company, Philadelphia, Pa. Republished by Publicker Industries Inc., Philadelphia, Pa., a corporation of Pennsylvania.

FREEZ PRUF

The words "Freez Pruf" are disclaimed apart from the mark as shown.
For Anti-Freeze Compounds.
Claims use since Jan. 13, 1933.

CLASS 12

CONSTRUCTION MATERIALS

Reg. No. 305,563. Registered Aug. 22, 1933. The Richardson Company, Lockland, Ohio, a corporation of Ohio. Republished by registrant, present address Cincinnati, Ohio.

INSUROK

For Composition Panel Board.
Claims use since on or about Apr. 17, 1933.

CLASS 15

OILS AND GREASES

Reg. No. 306,920. Registered Oct. 3, 1933. Lubraa Oil Corporation, Brooklyn, N. Y., a corporation of New York. Republished by registrant.

LUVOHL

For Upper Motor Lubricants.
Claims use since Mar. 21, 1933.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 91,890. Registered June 3, 1913. The Dr. J. H. McLean Medicine Company, St. Louis, Mo., a corporation of Missouri. Republished by registrant.



For Oil Liniment.
Claims use since before the year 1860.

Reg. No. 91,891. Registered June 3, 1913. The Dr. J. H. McLean Medicine Company, St. Louis, Mo., a corporation of Missouri. Republished by registrant.

DR. J. H. McLEAN'S OIL LINIMENT.

For Oil Liniment.
Claims use since before the year 1860.

Reg. No. 91,986. Registered June 10, 1913. The Dr. J. H. McLean Medicine Company, St. Louis, Mo., a corporation of Missouri. Republished by registrant.

DR. J. H. McLEAN'S

For Medicines, Preparations, Compounds, and Tablets Designed and Intended for the Treatment of and as Remedies for Diseases, Ailments, Affections, Disorders, and Complaints of the Liver, Kidneys, and Urinary Organs; for Medicines, Preparations, and Compounds Designed for the Treatment of and as Remedies for Coughs, Colds, Bronchitis, Asthma, and Other Troubles, Affections, Ailments, and Diseases of the Throat and Lungs; for Medicines, Preparations, Compounds, and Tablets Designed and Intended for the Treatment of and as Remedies for Alimentary Troubles and Disorders and Complaints, Disorders, and Ailments of the Stomach, for Strengthening-Cordials and Blood-Purifiers, for Eye-Salves, for Vermifuges, for Oil-Liniments, and for Catarrh-Powders, and Also for Condition-Powders for the Treatment of Diseases of Domestic Animals and Poultry.
Claims use since before the year 1860.

Reg. No. 384,182. Registered Jan. 7, 1941. Elmer A. Tanquary, doing business as Allan & Co., Chicago, Ill. Republished by registrant, present address Kansas City, Mo.

NEOCOMPLEX

For Vitamin B Complex Syrup Prepared From Brewers' Yeast Extract, Dextrose, and Levulose Used in the Treatment of Vitamin B Deficiencies.
Claims use since Aug. 31, 1939.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Reg. No. 59,818. Registered Jan. 15, 1907. Friedrich Adolf Richter, Rudolstadt, Germany, and New York, N. Y. Republished by The A. C. Gilbert Company, New Haven, Conn., a corporation of Maryland.

ANCHOR

For Toy Building Blocks, Toy Houses, and Parts Thereof.
Claims use since 1887.

Reg. No. 304,883. Registered July 18, 1933. National Skee-Ball Company, Inc., Brooklyn, N. Y. Republished by Philadelphia Toboggan Company, Philadelphia, Pa., a corporation of Pennsylvania.

SKEE-ROLL

For Game in the Nature of a Bowling Game and Parts Thereof.
Claims use since Feb. 8, 1933.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 439,419. Registered June 22, 1948. West Disinfecting Company, Long Island City, N. Y., a corporation of New York. Republished by registrant.

VAPOMAT

For Portable Vaporizers for Dispensing Liquid Insecticides.
Claims use since Feb. 1, 1947.

CLASS 27

HOROLOGICAL INSTRUMENTS

Reg. No. 93,621. Registered Sept. 30, 1913. Western Clock Co., Peru, Ill. Republished by General Time Corporation, New York, N. Y., a corporation of Delaware.

THE BELLBOY

For Clocks and Watches.
Claims use since May 29, 1913.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Reg. No. 231,207. Registered Aug. 16, 1927. Petroleum Heat and Power Company, New York, N. Y. Republished by Iron Fireman Manufacturing Company, Cleveland, Ohio, a corporation of Oregon.

PETRO

For Petroleum Oil Burners.
Claims use since Dec. 24, 1925.

CLASS 38

PRINTS AND PUBLICATIONS

Reg. No. 307,098. Registered Oct. 17, 1933. Apparel Arts Publications, Inc., Chicago, Ill. Republished by Esquire, Inc., Chicago, Ill., a corporation of Delaware.

Fabrics & Fashions

For Publication Issued Quarterly.
Claims use since Mar. 17, 1933.

Reg. No. 397,102. Registered Aug. 18, 1942. Yourself Publications, Inc., New York, N. Y. Republished by Woman's Life Publications, Inc., New York, N. Y., a corporation of New York.

WOMAN'S LIFE

For Magazine Published From Time to Time.
Claims use since Feb. 2, 1942.

CLASS 39

CLOTHING

Reg. No. 177,974. Registered Jan. 1, 1924. Joseph H. Cohen & Sons, New York, N. Y. Republished by Joseph H. Cohen & Sons, Inc., New York, N. Y., a corporation of New York.

VANITY CLOTHES

The word "Clothes" is disclaimed apart from the mark as shown.

For Clothing for Men—Namely, Suits, Overcoats, Tuxedos, Full-Dress Suits, Trousers, and Sport Garments.
Claims use since Feb. 15, 1923.

Reg. No. 304,928. Registered July 25, 1933. Raleigh Haberdasher, Inc., Washington, D. C., a corporation of the District of Columbia. Republished by registrant.

BROOKSTREET

For Men's Suits, Overcoats, and Topcoats.
Claims use since Mar. 13, 1933.

Reg. No. 418,567. Registered Jan. 1, 1946. Lustberg, Nast & Co., Inc., New York, N. Y., a corporation of New York. Republished by registrant.

Lustray

For Men's, Women's, and Boys' Jackets.
Claims use since March 1944.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 93,650. Registered Oct. 7, 1913. Dr. A. Wander A-G., Berne, Switzerland. Republished by The Wander Company, Chicago, Ill., a corporation of Delaware.

OVALTINE

For Food Drink.
Claims use since 1906.

Reg. No. 435,913. Registered Jan. 13, 1948. Stanley Levinson, doing business as Stanley Levinson Co., Los Angeles, Calif. Republished by registrant.

HEAD MAN

For Fresh Vegetables and Fresh Deciduous Fruits.
Claims use since Mar. 1, 1939.

REISSUES

OCTOBER 20, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

23,725

KEY MECHANISM FOR ALTO AND BASS CLARINETS

Leon Leblanc, Paris, France
Original No. 2,627,776, dated February 10, 1953, Serial No. 180,454, August 19, 1950. Application for reissue July 9, 1953, Serial No. 367,124
6 Claims. (Cl. 84—382)

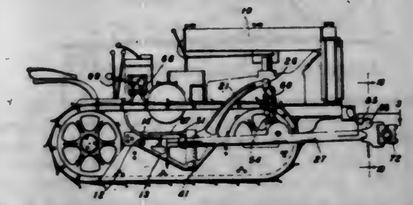


1. Tone producing mechanism for alto and bass clarinets of the type having upper and lower body joints and a curved neck extending from said upper joint, said tone producing mechanism including means defining a twelfth hole in said upper joint adjacent the upper edge thereof, said upper joint having a B flat tone hole and another tone hole spaced below said twelfth hole, a pivotally mounted hinge rod, a lever arm extending transversely and longitudinally of said hinge rod beyond one extremity of said hinge rod, a twelfth hole closing pad on the end of said lever, an actuating lever on said hinge rod, a second pivotally mounted hinge rod, a second actuating lever on said second hinge rod, a B flat tone hole closing pad, a lever interconnecting said last mentioned pad and said second hinge rod, means resiliently biasing said twelfth hole closing pad into hole closing position about the longitudinal axis of said hinge rod, means resiliently biasing said B flat tone hole closing pad into hole closing position, a manually operable key lever overlying said first and second actuating levers, means resiliently biasing said key lever against said actuating levers, a third pivotally mounted hinge rod, a lever operable upon closing said other tone hole to pivot said third hinge rod about its longitudinal axis, resilient means normally biasing said third hinge rod in an oppositely pivoted direction, an interconnection between said first and third hinge rods preventing opening of said twelfth hole when said third hinge rod is in its normally resiliently pivoted position and an interconnection between said second and third hinge rods preventing opening of said B flat tone hole when said third hinge rod is pivoted against its resilient biasing means by closing of said other tone hole.

23,726

HYDRAULIC TOOL SUPPORTING STRUCTURE

Jesse G. Lindeman, Yakima, Wash., assignor, by mesne assignments, to Deere & Company, Moline, Ill., a corporation of Illinois
Original No. 2,589,104, dated March 11, 1952, Serial No. 624,725, October 26, 1945. Application for reissue June 13, 1952, Serial No. 293,486
24 Claims. (Cl. 97—46.35)



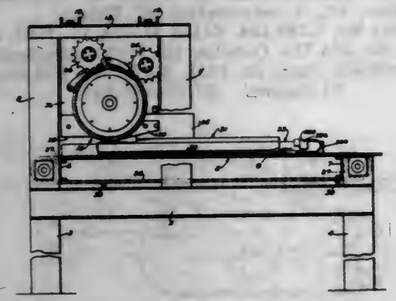
22. For a tractor or the like including longitudinal supporting structure having front and rear ends, the combination of: means adapted to be carried on said structure and providing respectively at opposite sides of said structure a pair of mounting portions in transverse alignment substantially midway between the front and rear ends of said structure; a single, reversible carrier having a pair of laterally spaced, generally longitudinally extending side beams interconnected at one end by a transverse member and having at its ends means for mounting the beams respectively on the aforesaid mounting portions for adjustment of the carrier with respect to the structure so that the beams move respectively in longitudinal vertical planes at each side of said structure, said beams and member being so dimensioned that the carrier is reversible and the beams may extend either forwardly or rearwardly from said mounting portions at opposite sides of the supporting structure to dispose the transverse member at either the front or rear end of said structure; a pair of carrier-adjusting mechanisms, one at each side of the tractor supporting structure, and each mechanism including a base part mountable on the associated side of the tractor supporting structure in a fixed position substantially midway between the front and rear ends of the tractor supporting structure irrespective of the position of the carrier, and each mechanism further including an arm, said arms having detachable and reversible connection with said base parts whereby said arms may be connected with said base parts in first and second positions to extend either forwardly or rearwardly respectively, relative to the tractor, according to the position of the carrier; and a pair of force-transmitting means respectively connectible between the beams and the arms in either of the related positions thereof for moving the beams vertically to adjust the carrier as aforesaid.

PATENTS

GRANTED OCTOBER 20, 1953

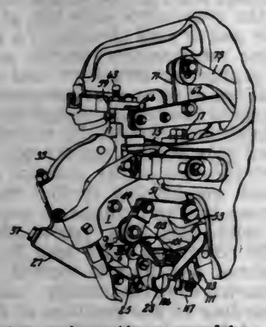
GENERAL AND MECHANICAL

2,655,654
ROTARY WIRE-STITCHING MACHINE
Arthur H. Maynard, Westerly, R. I., assignor to Bostitch, Inc., Stonington, Conn., a corporation of Rhode Island
Application June 5, 1952, Serial No. 291,906
20 Claims. (Cl. 1—11)



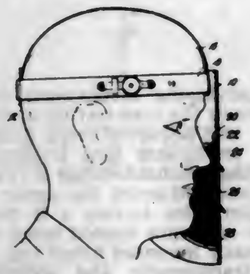
1. In a machine of the type indicated, a cylindrical head having a plurality of radial slots closely spaced around the entire circumference of said head, means to simultaneously feed a plurality of wire blanks across the periphery of the head to register them with a plurality of said slots, means cooperating with the head during its rotation to form the wire blanks into staples, and means reciprocable in the slots of the head to drive the staples outwardly therefrom and apply them to the work fed beneath the head.

2,655,655
FASTENER-INSERTING MACHINE
William Arthur Barker, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 8, 1952, Serial No. 275,499
In Great Britain March 21, 1951
16 Claims. (Cl. 1—20)



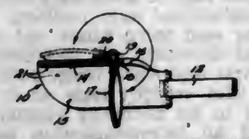
1. A fastener-inserting machine having, in combination, a main slide, a deflector carried by said slide and provided with an operating face for engaging and bending the legs of a staple as it is driven, a staple driver, a throat member through which staples are driven by said driver, a bracket member on which said throat member and said staple driver are mounted, means for supporting said bracket member on the main slide for bodily movement, relatively thereto, in a substantially rectilinear path generally parallel to the operating face of said deflector, means for operating said driver, and mechanism, actuated by said driver-operating means, for effecting bodily movement of said bracket downwardly toward a workpiece, near the end of the operative stroke of the driver, to cause the operating end of said driver to track down the operating face of the deflector and embed the crossbar of the staple in the workpiece.

2,655,656
VENTED FACE SHIELD FOR WELDERS
William C. Moeller, Kansas City, Mo., assignor to Parmelee Plastics Company, Kansas City, Mo., a corporation of Missouri
Application February 18, 1952, Serial No. 272,148
5 Claims. (Cl. 2—8)



1. In a face protector, the combination of an elongated, longitudinally arcuate shield of transparent material having a plurality of vent openings therein; a foraminous panel mounted on the normally innermost face of the shield covering said openings; and an outwardly and downwardly extending deflecting louver for each opening respectively on the normally outermost face of the shield.

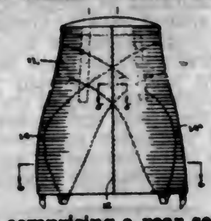
2,655,657
PROTECTIVE DEVICE FOR THE EYES
Ervin J. Lueders, Wauwatosa, Wis.
Application November 30, 1949, Serial No. 130,119
3 Claims. (Cl. 2—12)



1. A protective device for the eyes to shield them against the admission of downwardly or sidewardly directed rays of light, said device comprising a rigid shade element including a

head conforming rear marginal edge and a forwardly extending portion having a concavo-convex form with the inner under surface of said element formed by a warped plane including a pair of laterally spaced concaved portions and the outer upper surface of said element formed by a warped plane including a pair of laterally spaced convex portions, and a pair of colored lenses hingedly mounted on said shade element and movable for selective positioning thereon either in active position beneath said shade element or in inactive position above said shade element, said lenses having a lateral curvature to conform substantially with the curvature of the outer upper surface of said shade element when they are swung to their inactive position above said shade element and having an upper peripheral contour to conform substantially to the curvature of the inner under surface of said shade element when they are swung to their active position beneath said shade element.

2,655,658
GIRDLE
Joseph B. Conners, Jersey City, N. J.
Application May 19, 1953, Serial No. 355,955
9 Claims. (Cl. 2—87)



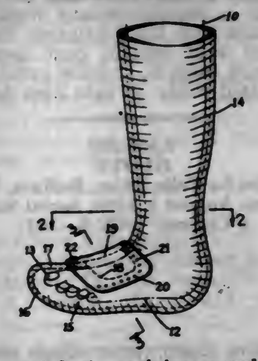
1. A girdle comprising a rear section of elastic material and which is capable of horizontal stretch, and a pair of crossed, elongated control panels connected to and overlying said rear section, each of said control panels extending substantially from a top corner area of said rear section to an opposite bottom corner area thereof, and said control panels crossing each other along a center line of the rear section so as to form a doubly reenforced area along the center line of said rear section.

2,655,659
APRON WITH AUTOMATICALLY ADJUSTABLE BELT
Paul E. Swearingen, Kensington, Ohio
Application August 21, 1951, Serial No. 242,815
1 Claim. (Cl. 2—52)



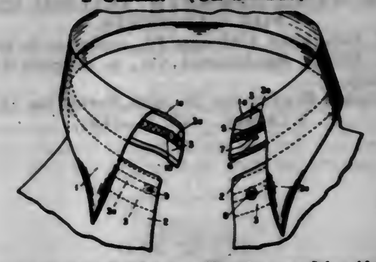
In combination with an apron having a shirred band portion having elastic cords therein, an open-ended casing upon the inner side of the waist band portion of the apron and terminating at points spaced from opposite ends thereof, and pockets on the inner side of the apron adjacent to the open ends of the casing, a support located through said casing and comprising two substantially semi-circular spring wire sections, the inner end of each wire section forming an eye slidably mounted upon the other section, a coil spring located around one of the wire sections between said eyes for normally urging the sections toward contracted position, the outer ends of the sections being bent backwardly upon themselves into U-shape and terminating in inwardly disposed closed loops, said U-shape portions being located in the pockets of the apron.

2,655,660
GARMENT
Michael Racz, Pine Hill, N. J.
Application July 26, 1948, Serial No. 40,669
1 Claim. (Cl. 2—83)



In a leg and foot receiving member of a garment, as pajamas, having a pair of such members, a leg-receiving portion and an attached foot-receiving portion, said foot-receiving portion being closed at the outer end and having an opening therein, said opening being located substantially in the middle between the closed end of the foot receiving portion and the leg-receiving portion, said opening being shaped and dimensioned for permitting the wearer of the garment to extend his foot through it so as to uncover the latter.

2,655,661
SHIRT COLLAR
Jean Persin, Paris, France
Application October 24, 1950, Serial No. 191,739
In France November 19, 1949
1 Claim. (Cl. 2—140)



In a removable shirt collar in combination with a shirt having a neck band, an outer element forming the outer surface of said collar, an inner element formed integral with said outer element and forming the inner surface of said collar, a strip secured to the inside surface of said inner element, said strip having a reinforced central portion secured thereto, a second strip secured to the inside surface of said shirt neck band, said second strip having a reinforced central portion secured thereto, a plurality of snap fastener members secured to the reinforced portion of said first strip, a plurality of complementary snap fastener elements secured to the reinforced portion of said second strip and engaging said fastener members secured to said first strip, a

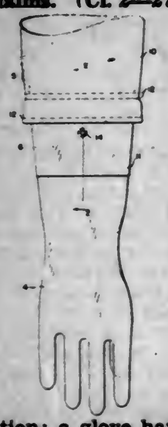
snap fastener for closing said collar formed with an elongated part and secured to said inner element adjacent an end thereof, a female snap fastener secured to said neck band adjacent an end thereof having an opening formed therein for receiving said elongated part, said elongated part extending through said female snap fastener and projecting outwardly therefrom when said collar is in the closed position, and a closing fastener secured to said inner element adjacent the other end thereof, said closing fastener having a female part and a male part, said male part projecting into a complementary female fastener secured to said neck band adjacent the other end thereof, and said female part receiving said elongated part therein, thereby providing means for closing said collar on said neck band.

2,655,662
GLOVE
Earline La Velle Edler, Buffalo, N. Y.
Application August 5, 1950, Serial No. 177,857
4 Claims. (Cl. 2—163)



1. In a glove finger construction having a finger covering portion and fourchettes on opposite sides of said finger portion and connected thereto, the combination therewith of means providing a normally closed slit extending transversely of said finger portion but which is openable to permit the exposure of a finger ring on the corresponding finger of the wearer when the glove is worn, comprising a member connected with said finger portion and arranged on the inner side thereof to provide a pair of loops the opposing closed ends of which define the edges of said slit, an elastic cord in a partially stretched condition extending through each of said loops and arranged along the bight of each thereof, and tabs on said fourchettes arranged at the ends of said cords and anchoring said cords.

2,655,663
DETACHABLE HERMETIC SEALING JOINT FOR GARMENTS
Earl J. Heagland, Chicago, Ill., assignor to Standard Safety Equipment Co., a corporation of Illinois
Application September 29, 1950, Serial No. 187,474
3 Claims. (Cl. 2—270)



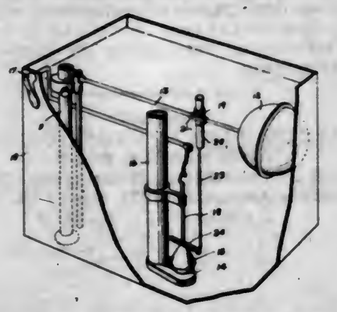
1. In combination: a glove having a smoothly rounded, tapered gauntlet stiffened against circumferential collapse; and a garment sleeve provided at its lower end with an elastic sleeve portion having an opening of smaller diameter than the gauntlet of said glove whereby said sleeve member may be tensioned smoothly about said gauntlet in continuous face-to-face telescoping relation so as to make a detachable hermetically sealed connection with said gauntlet.

2,655,664
EXPANSIBLE STRAP
Hector O. Ramos, Buenos Aires, Argentina, assignor to Carlos Menendez, Buenos Aires, Argentina
Application May 28, 1951, Serial No. 228,578
2 Claims. (Cl. 2—338)



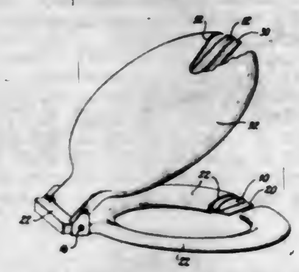
1. An expansible strap comprising a tape provided with a plurality of evenly spaced undulations defining spaced parallel crests and hollows, and a pair of strips extending in opposite directions and helically around said tape to provide convolutions in said strips, said pair of strips crossing each other centrally of the width of said tape between the crests and hollows of said undulations, said undulated tape being expansible, and said strips being extensible, said strips serving to limit the stretchability of said tape.

2,655,665
FLUSH CONTROL DEVICE FOR WATER TANKS
John Stewart Agnew, Toronto, Ontario, Canada
Application October 25, 1950, Serial No. 192,013
1 Claim. (Cl. 4—41)



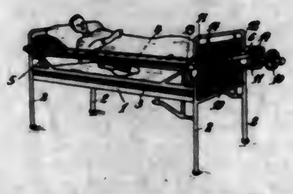
A water saving device for use in combination with the flushing mechanism of a flush tank for a water closet having a discharge opening in the bottom of the tank, a flush valve including an operating stem closing said opening and a ballcock including a float and an arm supporting the float for automatically refilling the tank after each flushing operation, said device comprising a bracket removably attachable to said arm, a tubular collar pivotally connected to said bracket permitting said collar to be adjusted angularly relative to said arm, a tubular member having a closed upper end carried in said collar whereby said tubular member may be adjusted in a vertical direction relative to said arm, and a push rod having its upper end arranged to enter said tubular member and its lower end formed with a terminal loop to encircle said stem and be supported on the flush valve, said rod and tubular member cooperating to effect a premature closing of the flush valve.

2,655,666
REPLACEMENT CASING FOR TOILET SEATS
Louis Schmidt, North Plainfield, N. J.
Application February 15, 1950, Serial No. 144,289
1 Claim. (Cl. 4—242)



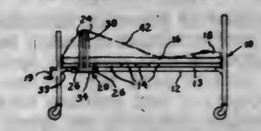
A replacement casing for toilet seats and toilet seat covers, wherein the toilet seat or toilet seat cover forms a mounting core for said casing, said casing comprising a substantially flat bottom sheet of the same shape as the underside of said core and which is adapted to fit against the underside thereof, and further comprising a resilient cover sheet shaped to fit over said core, said cover sheet extending over the entire upper part of said core and extending downwardly over the edges of said core and terminating in a peripheral, inwardly extending thickened lower edge, which lower edge is adapted to snap over the outer peripheral edge of said bottom sheet, whereby both the cover sheet and bottom sheet are detachably secured to each other and to said core.

2,655,667
WINDING PATIENT LIFT AND TURNING MECHANISM
Franz Burkert, Vienna, Austria, assignor of one-half to Hilde Saliger, Vienna, Austria
Application February 18, 1948, Serial No. 9,042
In Austria July 1, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires July 1, 1966
2 Claims. (Cl. 5—61)



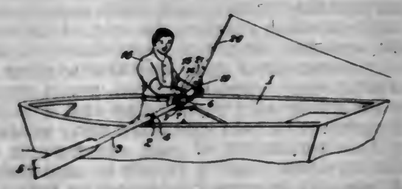
1. In a device for stretching the supporting sheet in a hospital bed, in combination, two parallel rollers to which the sheet is adapted to be secured with the longitudinal edges thereof for being coiled upon, and uncoiled from said rollers; a bearing for each of said rollers; clamping means connected to each of said bearings and having each a part adapted to be detachably clamped to a standard of the bed; forked extensions connected to said bearings, respectively; a driving shaft supported rotatably and axially undisplaceably by said extensions; hand operated means for turning said shaft; two worms rigidly connected to said shaft; each of one of said worms being arranged between the legs of said fork-like extensions, respectively, and each being axially undisplaceable and having a pitch so as to act as a self-locking means, said worms being simultaneously rotatable by said hand operated means for driving said shaft; gears arranged for free rotation on said rollers, respectively; a member loosely arranged on each one of said rollers so as to be associated therewith; a key connecting said member to said associated roller so as to rotate said member together with said associated roller and to allow an axial displacement of said member with respect to said associated roller; and a coupling pin eccentrically attached to said member and adapted to engage a recess provided in the associated gear, whereby any of said gears in coupled for rotation with said associated roller thereof independently from the other of said gears.

2,655,668
COMBINED FOOT AND BEDCOVER SUPPORT
Warren L. Nelson, Waltham, Mass.
Application May 14, 1952, Serial No. 287,793
2 Claims. (Cl. 5—319)



1. A foot and bedcover support for a bed of the type having angular cross sectional bed rail construction with a downwardly extending portion along each of the two sides of the bed, comprising a two sided channel section for positioning at each of the bed rails with the channel sides disposed upwardly to straddle the downwardly extending portion of the bed rail and to make guiding contact therewith, screw means in one of the sides of each channel section disposed to clamp said downwardly extending portion of the bed rail and the other side of the channel section together, a pair of substantially parallel upwardly extending legs for each channel section rigidly fixed at one end to said one side of each channel section and in spaced relation to each other, and a footboard member of rectangular cross section for placement across said bed and with its ends in said spaces between the upwardly extending legs, the thickness of said footboard member being of a dimension permitting mounting thereon the two sided channel sections in manner similar to mounting on the bed rails to thereby provide a compact unit for storage.

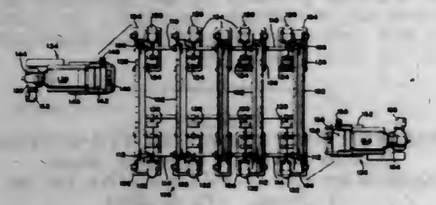
2,655,669
OAR GUARD
Peter Schaper, Chicago, Ill.
Application August 31, 1949, Serial No. 113,339
4 Claims. (Cl. 9—24)



1. An oar harness comprising an oar attachable member and attaching means thereon for removably attaching the same to an an oar han-

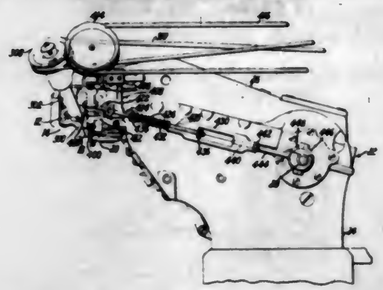
die, a tube member and attaching means thereon for removably attaching the same to the wrist of an oarsman, and interlocking means on and between said members to allow relative movement of the tube member only in a direction substantially parallel with the axis of the oar.

2,655,670
MACHINE TOOL AND OPERATING CIRCUIT THEREFOR
Roy I. Eyler, Waynesboro, Pa., assignor to Landis Machine Company, Waynesboro, Pa., a corporation of Pennsylvania
Application June 30, 1949, Serial No. 102,363
6 Claims. (Cl. 10—107)



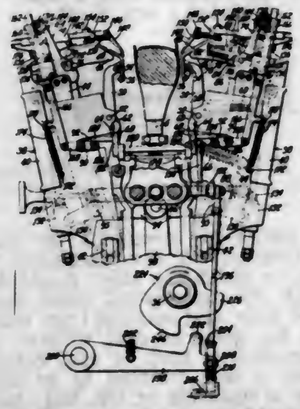
1. In a machine of the class described; a work gripper; first motor means operable to open and close said gripper; a first solenoid operable when energized to control said first motor means to close said gripper; a tool holding carriage; second motor means operable to move said carriage in opposite directions with respect to said gripper; a second solenoid operable when energized to control said second motor means to move said carriage in one direction; a first electric circuit including a first normally open switch for energizing said first solenoid; means for closing said first switch; a second electric circuit including a second normally open switch for energizing said second solenoid; a first normally deenergized relay, operable to open said second switch when deenergized and to close it when energized; a third circuit including a third switch operative to be closed by the closing of said gripper and to energize said first relay when closed; a fourth electric circuit including a second normally denergized relay and a fourth normally open switch adapted to be closed to energize said second relay by the movement of the carriage in said one direction; a fifth electric circuit including a fifth switch adapted to be closed by said second relay when energized and to be opened by said second relay when deenergized, said fifth circuit including a third solenoid operable when energized by the closing of said fifth switch to control said second motor means to move said carriage in the opposite direction; said second motor being ineffective when said second and third solenoids are deenergized; a sixth electrical circuit including a sixth normally open switch operable when closed to maintain said second relay energized during the movement of said carriage in the said opposite direction; means operable to keep said sixth switch closed until said carriage reaches the end of its stroke in said opposite direction, comprising a third normally deenergized relay operable to close said sixth switch only when energized, and a seventh circuit including said third relay and a holding circuit operable to hold said third relay energized during the movement of said carriage in said opposite direction; and a switch in said holding circuit operable to open to deenergize said third relay when said carriage reaches the end of the movement in said opposite direction, whereby said third solenoid is deenergized and said second motor is rendered ineffective to continue the movement of said carriage in said opposite direction.

2,655,671
LASTING MACHINE
Joseph Fossa, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 25, 1950, Serial No. 164,149
23 Claims. (Cl. 12—1)



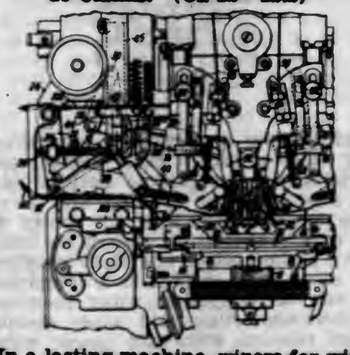
19. A lasting machine having, in combination, a gripper constructed intermittently to seize the lasting margin of the stock and to pull it inwardly in a direction substantially parallel to the bottom of a shoe, progressively, in different locations along the marginal edge of the bottom of the shoe, thereby to tension the stock in a direction heightwise of the shoe and to draw its lasting margin inwardly over the shoe bottom, and additional means for seizing the lasting margin of the stock and exerting a pull thereon sufficient to tension the stock in a direction heightwise of the shoe, said means operating in such time relation to the action of said gripper as to tension the stock hightwise of the shoe before and during the initial inward tensioning movement of said gripper.

2,655,672
LASTING MACHINE
Theodore P. Courchene, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application June 6, 1950, Serial No. 166,289
17 Claims. (Cl. 12—8.1)



13. In a lasting machine, flexible lasting straps arranged to engage an upper at the opposite sides of a last, lasting fingers arranged to act through said straps to lay the marginal portion of the upper inwardly over an insole on the last in the course of a cycle of power operations of the machine, supports for said fingers movable widthwise of the last to cause the fingers thus to act on the upper, rack bars carried by said supports and arranged to extend widthwise of the last, clamp members carried by said rack bars for clamping the upper against said straps to control it in the lasting operation, other rack bars carried by said supports and mounted for movements heightwise of the last, operating connections between said other rack bars and the first-named rack bars, retaining means arranged to act through said rack bars to hold said clamp members in outwardly retracted positions when the work is presented to the machine and thereafter to release said members, spring means for moving the members inwardly toward each other widthwise of the last when they are thus released, and power-operated means arranged to act through said rack bars after the starting of the cycle of operations to move said members reversely in outward directions to clamp the upper against the straps.

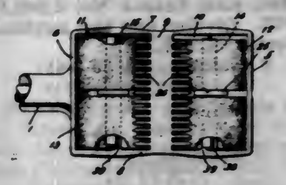
2,655,673
LASTING MACHINE
Wayne A. Shafer, Jr., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application December 15, 1951, Serial No. 261,777
15 Claims. (Cl. 12—12.2)



11. In a lasting machine, wipers for wiping the marginal portion of an upper around the toe end of a last inwardly over the feather and against the lip of a welt shoe insole on the last, grippers for gripping at the opposite sides of the shoe respectively beyond the wipers a binder extending around the toe end of the upper and for pulling the binder inwardly against the upstanding margin of the upper adjacent to the lip of the insole, holddown members arranged to engage the binder in locations between the wipers and said grippers to position it in those locations heightwise of the shoe, supports for said holddown members mounted for movements heightwise of the shoe, fingers carried by said supports for engaging the insole to position said members heightwise of the shoe, springs for thus moving said supports to the positions determined by said fingers, and other springs for moving said members inwardly toward the shoe relatively to said supports into positions to control the binder.

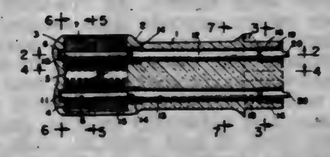
2,655,674
MULTIPLE ROTARY TOOTHBRUSH WITH LIP GUARD
Donald P. Grover, Chicago, Ill.
Application September 30, 1946, Serial No. 700,315
7 Claims. (Cl. 15—23)

1. A rotary toothbrush of the character described, comprising a handle portion, brush supporting means on said handle portion, a pair of elongated brush elements rotatably mounted on said brush supporting means in substantially parallel and spaced relation to receive the teeth



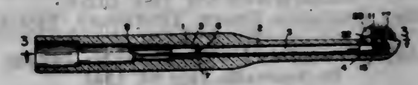
of a user therebetween, a lip guard extending longitudinally of and between said brush elements and including a plurality of teeth spaced apart along the length of said brush elements, and means for simultaneously rotating said brush elements toward each other.

2,655,675
POWER-DRIVEN TOOTHBRUSH WITH LIP GUARD
Donald P. Grover, Chicago, Ill.
Application October 10, 1946, Serial No. 702,535
6 Claims. (Cl. 15—23)



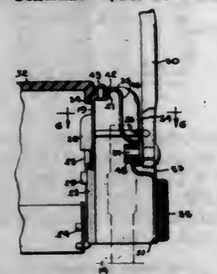
1. A power driven toothbrush of the class described, comprising a handle portion having a head at one end thereof, a pair of substantially parallel cavities in said head extending lengthwise of said handle portion and having a partition therebetween, a brush element in each of said cavities, means for rotatably mounting a brush element in each of said cavities, and lip guards integral with said partition and extending generally radially outwardly therefrom toward both brush elements to thereby prevent the lip of a user from being injured.

2,655,676
ROTARY TOOTHBRUSH WITH LIP GUARD
Donald P. Grover, Chicago, Ill.
Application October 24, 1946, Serial No. 705,282
4 Claims. (Cl. 15—23)



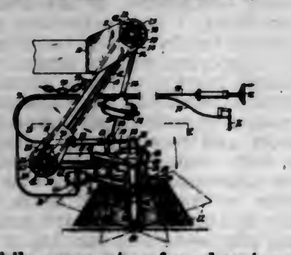
1. A rotary toothbrush of the character described comprising a handle portion, a shaft extending longitudinally through said handle portion, brush supporting means formed at one end of said handle portion, a brush element including a spindle extending longitudinally therethrough, means in said brush supporting means to removably and rotatably mount said spindle angularly with respect to said handle portion, gear means connecting said shaft with said spindle, whereby rotation of said shaft will rotate said spindle and brush, and guard means for the lip of a user disposed along one side of said brush supporting means and extending between the bristles on said brush element.

2,655,677
CARPET SWEEPER CASING
Berthold R. Thiele, Ripon, Wis., assignor to Speed Queen Corporation, Ripon, Wis., a corporation of Delaware
Original application November 17, 1944, Serial No. 563,845, now Patent No. 2,602,175, dated July 8, 1952. Divided and this application June 6, 1951, Serial No. 230,131
2 Claims. (Cl. 15—41)



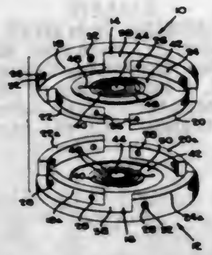
1. A carpet sweeper casing of the class described comprising, in combination, two vertical end plates disposed in spaced relation to each other, two side rails disposed horizontally across opposite sides of said casing, said rails each being attached to the contiguous edges of said end plates and having a longitudinal groove defined in the upper edge thereof, an upwardly bowed cover plate having opposite ends secured to the upper edges of said respective end plates and having opposite side edges disposed in abutting engagement with said upper edges of said respective side rails and interfitted into said grooves therein, and two outwardly bulging end shells on opposite ends of said sweeper, each of said shells having a curved inner edge disposed in overlying relation to the contiguous end of said cover plate, the lower inner corners of said shells being securely fastened to the contiguous side rail end portions, each of said shells presenting a flat vertical portion along its lower side edge extending outwardly in protective relation to cooperating sweeper parts, the upper portions of said shells above said lower portions thereof being offset substantially inwardly of the respective lower portions, and a sweeper bail bearing in said inwardly offset portion of each of said shells and disposed immediately above the lower portion of the shell to mount a bail arm in protected relationship thereto.

2,655,678
MOBILE APPARATUS FOR WORKING ON ROADWAYS OR THE LIKE
Hedley Benjamin Keogh, Thornbury, Victoria, Australia
Application July 1, 1949, Serial No. 102,633
In Australia July 20, 1948
13 Claims. (Cl. 15—87)



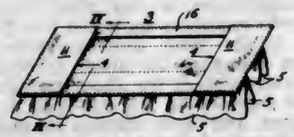
1. A mobile apparatus for cleaning roadways and the like, comprising a frame, an angularly adjustable articulated structure depending from said frame, a road cleaning element supported by the articulated structure and movable relatively to a roadway responsive to angular adjustments of the articulated structure, pilot means for road engagement located in advance of the cleaning element in traversing the roadway and supported for rising and falling movements to follow the surface contour and pass over obstructions, control means operated by the pilot means as the latter rises and falls, and operating means responsive to actions of the control means to angularly adjust the articulated structure and thereby elevate and lower the cleaning element in conformity with the rising and falling movements of the pilot means.

2,655,679
TANDEM TYPE PIPE WIPER
John C. Grant, Los Angeles, Calif., assignor to Byron Jackson Co., Vernon, Calif., a corporation of Delaware
Application January 22, 1949, Serial No. 72,133
11 Claims. (Cl. 15—210)



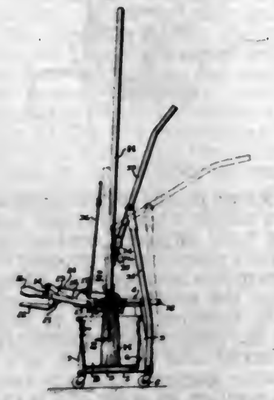
1. A pipe wiper comprising a pair of complementary wiper members, each member comprising a radially inner flexible portion having a central pipe-receiving opening and a radially outer portion having at least one spacer web extending axially therefrom toward the other web member, a spacer web on one wiper member being radially offset with respect to a complementary spacer web on the other wiper member, and means interconnecting said wiper members in assembled relation with said spacer webs telescopically interfitted in nested relation, whereby to maintain said flexible portions in axially spaced parallel relation and said pipe-receiving openings in axial alignment.

2,655,680
DUSTING AND POLISHING DEVICE
Henrietta S. Geerin, Cincinnati, Ohio
Application April 24, 1950, Serial No. 157,751
2 Claims. (Cl. 15—228)



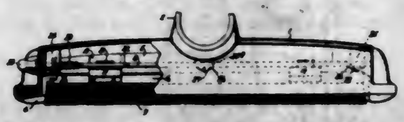
1. A boot for a dusting and polishing device comprising a rectangular sheet having pockets adjacent the ends thereof for receiving the ends of a base support member, and a folded substantially rectangular strip of sheet material on the bottom of and located adjacent to each longitudinal edge of the sheet containing said pockets, the length of such folded strips being substantially equal to the length of the sheet containing said pockets, each of said folded sheets being attached by ruffle stitching to the sheet containing said pockets so that the portions of each folded sheet on each side of the fold line are ruffled.

2,655,681
MOP WRINGER APPARATUS
Arthur Swanson, Elsinore, Calif.
Application March 11, 1950, Serial No. 149,184
7 Claims. (Cl. 15—262)



3. A mop wringing apparatus, involving: a frame structure adapted to receive a mop bucket; a mop clamping means carried by said frame under which said bucket is adapted to be disposed, said mop clamping means including a pair of wringer rollers; a lever and latch means to effect relative opening and closing of said rollers and incorporating a yieldable element whereby the rollers yieldably engage a mop positioned therebetween; and a coarse comb means having large blunted teeth disposed below said wringer rollers and movable therewith to penetrate the strands of a mop engaged by said rollers to straighten the same as said mop is drawn upwardly between said rollers.

2,655,682
SUCTION CLEANER NOZZLE AND BRUSH
Robert B. McCarthy, Cleveland, Ohio, assignor to General Electric Company, a corporation of New York
Application April 19, 1949, Serial No. 88,449
1 Claim. (Cl. 15—373)



In a suction cleaner nozzle of the type having an elongated body defining a suction chamber with an elongated mouth adapted to contact a surface to be cleaned and a longitudinally extending brush slidably mounted in said mouth for movement toward and away from said surface, that improvement in means for adjusting the position of said brush comprising a crankshaft extending longitudinally of and rotatably supported by said body within said mouth, spaced eccentric portions on said crankshaft, hook members on said brush engaged with said eccentric portions, one end of said crankshaft extending outside of said body, a control knob attached to said end outside said body, a projection on said knob, said nozzle body having a plurality of recesses therein for selective cooperation with said knob projection, and a spring extending between the inside of said mouth at one end and one of said eccentric portions for providing means to maintain said knob projection in a selected one of said recesses, whereby said crankshaft and said brush are held in adjusted position.

2,655,683
OVERHEAD DOOR
James H. McKee, Aurora, and Melvin E. Hartzler, Downers Grove, Ill., assignors to McKee Door Company, Aurora, Ill., a corporation of Illinois
Application February 2, 1950, Serial No. 142,023
9 Claims. (Cl. 16—104)



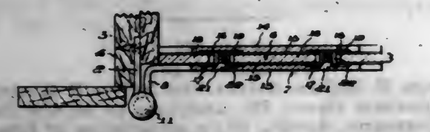
1. A combination hinge and roller bracket for pivotally connecting together the sections of an overhead door and for connecting the sections in rolling relationship to a track comprising means forming a pair of hinge leaves adapted for attachment one to each of adjacent door sections, a hinge pin pivotally connecting said leaves to form a hinge thereof, said hinge pin extending at one side beyond the edge of said hinge leaves, a pair of arms pivotally connected to said hinge pin extension, a track following roller secured to each of said arms on the side thereof opposite said hinge pin, and clamping means for adjustably fixing the angular relationship of one of said arms with respect to the other of said arms.

2,655,684
ROLLER CONSTRUCTION
Lowell V. Robinson, Detroit, Mich., assignor to Crawford Door Company, Detroit, Mich., a corporation of Michigan
Application September 14, 1949, Serial No. 115,613
1 Claim. (Cl. 16—107)



A roller construction comprising a metal tube having an external groove around one end thereof, a metal tubular member pressed on said tube and having a fluted radially projecting flange aligned with an intermediate portion of the tube, and a rubber body molded on the tubular member and adjacent tube portion and receiving the fluted flange of the tubular member therein, said rubber body being shaped to provide a roller body with an integral rounded tire portion around the periphery thereof.

2,655,685
DOOR HINGE
Joseph Hilliard Lewis, Kingsport, Tenn., assignor to Blue Ridge Glass Corporation, Kingsport, Tenn., a corporation of New York
Application February 3, 1951, Serial No. 209,297
2 Claims. (Cl. 16—158)



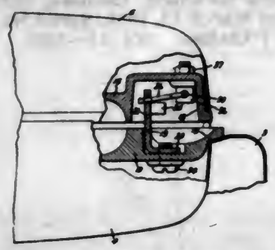
2. A pintle hinge for swingably supporting a vertically hung glass door of a building, the hinge having a leaf adapted to be attached to the vertical face of a door frame, a plate pintlely connected to said leaf and adapted to overlie one face of a glass door, a second plate adapted to overlie the other face of such a door opposite to said first-named plate, a detachable clamp adapted to extend through an opening in the body of such a door, said clamp engaging each of said plates for clamping them tightly on the opposite faces of such a door and so formed and proportioned that it is free from engagement with any portion of such a door, there being between the inner face of each of said plates a recess surrounding and spanning said clamp whereby said plate faces bear only on flat portions of such a door that are spaced from the wall of an opening therethrough, a layer of adhesive material adapted adhesively to engage the inner face of each of said plates, each of said layers being adapted adhesively to engage flat faces of such a door so that when said plates are attached to each other and clamped as aforesaid tightly upon such a door the door when hung is adapted to be supported solely by vertical shear on said layers of adhesive material.

2,655,686
HINGE
Joseph Frederick Summersgill, Maughold, Isle of Man
Application February 10, 1950, Serial No. 143,500
In Great Britain February 16, 1949
14 Claims. (Cl. 16—161)



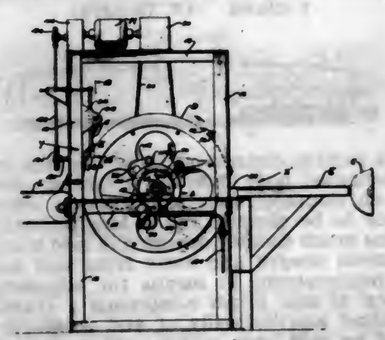
1. Co-planar hinge consisting of two plates, one comprising an E-shaped plate, co-axial pintle pin receiving rolls formed at the ends of the horizontal limbs, a part of the central limb being of reduced thickness from one face and for the complete vertical dimension of said central limb, the other said plate having lugs each to be received in a space between an outer horizontal limb of the E-shaped plate and the center limb, said lugs having co-axial rolls along one vertical end for uniting the two plates by the pintle pin, and a part of reduced thickness between said lugs and complementary with the part of reduced thickness of the said central limb, for the folding up of the leaves in substantially co-planar relation with the reduced thickness parts juxtaposed.

2,655,687
WAFFLE IRON AND IMPROVED EXPANSION HINGE THEREFOR
Homer H. Miller, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application December 28, 1950, Serial No. 203,121
1 Claim. (Cl. 16—164)



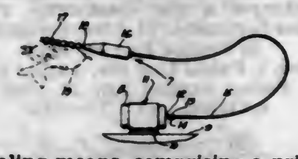
Concealed hinge means for connecting together two members which when in closed position one on the other have adjacent contacting surfaces comprising walls which define opposed hinge cavities in said members positioned at adjacent edges of and within the confines of said members, a hinge bracket fastened in one of said cavities comprising a flat plate which extends transversely across such cavity and outwardly to a point beyond such cavity whereby when the two members are in closed position its outer end is in the other cavity, the outer end of such plate being provided with a transversely extending slot, pivot means in the other cavity, a pivot plate also in the other cavity which extends at substantially a right angle to said flat plate, and means pivotally connecting one side edge of said pivot plate in said slot comprising a tongue on the pivot plate which projects through the slot and ears on the tongue positioned behind the flat plate to hold the tongue in the slot, and means for pivoting the other side edge of said pivot plate to said pivot means.

2,655,688
APPARATUS FOR SEPARATING THE FLESH FROM THE SKIN OF FISH
Gottfried E. Hube, Bellingham, Wash., assignor, by mesne assignments, to Pacific Laboratories, Inc., Bellingham, Wash., a corporation of Washington
Application August 19, 1947, Serial No. 769,496
12 Claims. (Cl. 17—2)



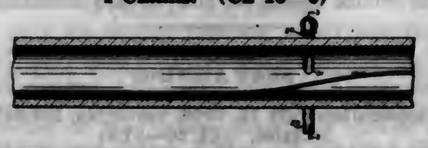
1. Apparatus for removing the flesh from the skin of fish halves comprising a frame having feeding and skinning stations on opposite sides of the frame and a drum with a curved outer surface mounted for rotation thereon between said stations, said drum having means for gripping the tail end of a fish half when same is received at said feeding station and for carrying it upwardly and thence downwardly on the drum past said skinning station with the skin side of the fish presented toward said curved surface, a skinning knife mounted on said frame at said skinning station and in the downward path of movement of the fish on said drum, said knife having an edge positioned to separate the flesh from the skin of the fish when the latter is moved past said knife, and guiding mechanism for the fish positioned on said frame in the downward path of movement of the fish previous to its arrival at the skinning station comprising a plurality of pivoted fingers positioned laterally across the path of movement of the fish and having free ends fixed against movement with said drum which engage and apply a yielding and restraining pressure to the fish immediately before it is acted on by said knife, the restraining action of said free ends of said fingers serving to prevent downward relative movement of portions of the fish with respect to the surface of said drum, whereby to stretch the skin of the fish in unwrinkled state on the surface of said drum to facilitate separation of the flesh therefrom by said knife, certain of said fingers having free ends positioned to engage the sides of the fish to prevent lateral displacement of the fish on said drum as it approaches engagement with said knife.

2,655,689
FISH SCALING DEVICE
Walter R. Witte, Chicago, Ill.
Application October 25, 1950, Serial No. 191,947
1 Claim. (Cl. 17—5)



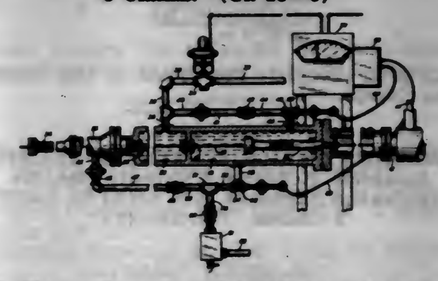
Fish scaling means, comprising a prime mover provided with a rotor shaft extension, a rotatable scaling element being provided with a body portion, flexible shaft means interconnecting the said rotor shaft extension and the said scaling element, handle means secured rotatably on the said flexible shaft means adjacent the said scaling element, and a multiplicity of toothed portions arranged in staggered rows and formed integrally with the said body portion and disposed at right angles to the peripheral portion of the said body portion defining scale ejecting pocket portions at the roots of the said toothed portions.

2,655,690
METHOD OF AND APPARATUS FOR CONTINUOUSLY MAKING VULCANIZED ARTICLES
George E. Henning, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application August 9, 1950, Serial No. 178,446
4 Claims. (Cl. 18—6)



1. The method of making vulcanized articles, which comprises advancing a vulcanizable filament through an elongated, generally horizontal vulcanizing tube containing steam under high pressure, whereby the filament sags into contact with the tube, and introducing hot water into the vulcanizing tube at a point in advance of that where the filament first engages the bottom of the vulcanizing tube, whereby the water acts as a cushion to prevent scuffing of the filament due to contact with the tube.

2,655,691
METHOD OF AND APPARATUS FOR FORMING VULCANIZED ARTICLES
George E. Henning, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 28, 1950, Serial No. 187,265
6 Claims. (Cl. 18—6)

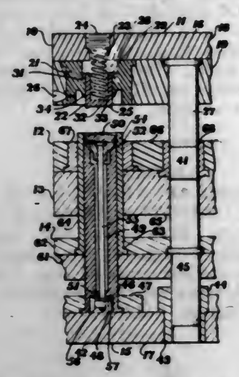


2. The method of cooling a hot vulcanized article being continuously withdrawn from a vulcanizing tube and sealing a vulcanizing fluid in the tube, which comprises withdrawing a hot, vulcanized filament from a vulcanizing tube successively through an entrance chamber, an intermediate chamber and a cooling chamber having restricted openings therebetween, introducing cold water under a high pressure individually into the entrance chamber and the intermediate chamber, continuously directing a portion of the water in the entrance chamber out of that chamber, around the intermediate chamber and into said cooling chamber, measuring the initial temperature of the water and the temperature of the portion being directed from the entrance chamber into the cooling chamber, and regulating the pressure of the water being introduced into the chambers in accordance with the differential between said temperatures to regulate the junction point of the vulcanizing fluid and the water.

2,655,692
MOLD FOR FRAMING LENSES IN A PLASTIC MOUNTING
Howard G. Fay, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 1, 1952, Serial No. 279,902
2 Claims. (Cl. 18—36)

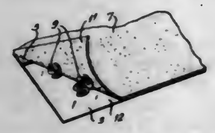
2. In an injection mold adapted to open and close and to form an injection mold cavity when closed, and to mold a concentric peripheral plastic mounting on a non-optically centered lens positioned in the cavity, the combination of an upper mold block having a vertically slidable and spring pressed lens clamping member with a lower mold block having a vertically slidable lens clamping member mounted to rock about a point on its vertical axis, and a stationary hollow cylindrical member through which said lens clamping member slides adapted to restrict horizontal movement of a lens placed on said lens

clamp during initial clamping movement and adapted to form a portion of the mold cavity



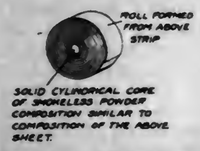
wall after complete movement of the coacting lens clamps.

2,655,693
METHOD OF MAKING RUBBER STAMPS
Randolph P. Adams, University City, Mo.
Application August 19, 1950, Serial No. 180,397
2 Claims. (Cl. 18—47.5)



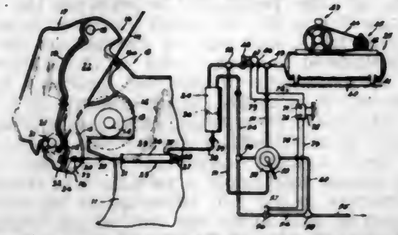
1. The process of making rubber stamps which comprises providing an apparatus having a series of individually actuable indenting elements whose faces have protuberances shaped to correspond respectively with the mirror image of alphabetical characters, supplying said apparatus with mold material in strip form which is receptive to indentation by said elements, actuating the indenting elements one at a time in selected sequence to indent the mold material with chosen characters, then compressing rubber on the indented surface of and into the indentations in said mold material, and vulcanizing the rubber while so compressed.

2,655,694
MANUFACTURE OF SMOKELESS POWDER
William E. Piper, Wilmington, Del., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application July 28, 1945, Serial No. 607,666
9 Claims. (Cl. 18—47.5)



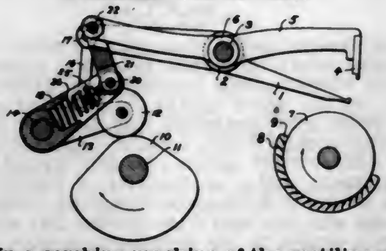
1. In the art of forming thick-web, large grain smokeless powder by extruding longitudinally a roll prepared from a sheet of colloided smokeless powder, the improvement which comprises preparing said roll by rolling a sheet of said powder onto a solid core of colloided smokeless powder.

2,655,695
HYDRAULIC GIN BREAST LIFT
Wise L. Ford, Lawton, Okla.; Lorece Cate, administratrix de bonis non of said Wise L. Ford, deceased, assignor to Continental Gin Company, Birmingham, Ala.
Application July 3, 1950, Serial No. 171,896
14 Claims. (Cl. 19—55)



12. In a cotton gin having a breast movably mounted on a gin stand, a device for moving said breast outwardly from the stand, comprising an hydraulic cylinder connected to said stand, a piston slidably received in said cylinder, a piston rod connecting said piston and said breast, and means for creating a fluid pressure in said cylinder forcing said piston in a direction toward said breast for moving said breast outwardly away from the stand.

2,655,696
COMBING MACHINE OF THE RECTILINEAR TYPE
Jules Gressel, Guebwiller, France, assignor to Nouvelle Societe de Construction ci-devant N. Schlumberger & Cie, Guebwiller, France
Application September 23, 1946, Serial No. 698,693
In France July 27, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires July 27, 1965
4 Claims. (Cl. 19—116)



1. In a combing machine of the rectilinear type for the combing of textile fibers, in combination, a stationary pivot and upper jaw rockably mounted on said pivot, a lower jaw rockably mounted on said pivot, a circular comb positioned underneath said lower jaw adjacent an extremity thereof, first mechanism adapted to impart rocking motion to said upper jaw, second mechanism adapted to impart rocking motion to said lower jaw, said first mechanism including resilient means for yieldably guiding said upper jaw, said second mechanism being arranged for positive guidance of said lower jaw, and synchronous driving means for both of said mechanisms.

2,655,697
SLAT AWNING
Stanley J. Albany, Pasadena, Calif.
Application July 14, 1949, Serial No. 104,647
1 Claim. (Cl. 20—57.5)

A slat type awning structure comprising a frame including rigid bars spaced transversely

from each other and extending downwardly at a forward incline between their upper and lower ends, a plurality of slats extending horizontally across said bars one above another, each slat having a rear side edge portion formed with a longitudinally extending channel having a flat base portion firmly secured against outer surfaces of said bars and a rear wall projecting outwardly from the bars, said slats each extending outwardly at a downward incline from said bars in



overlapping and outwardly spaced relation to the rear portion of a slat below it and having a front side edge portion formed with a downwardly extending flange, said slats being formed of resilient material, and posts extending upwardly above the channels of said slats and being of a height greater than the initial distance between said bars and front side portions of the slats, said slats being sprung upwardly and resting upon upper ends of the posts and having frictional binding engagement therewith.

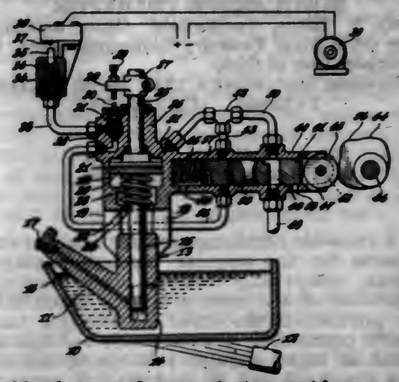
2,655,698
WEATHERSTRIP CONSTRUCTION
John Chalik, La Porte, Ind., and Peter G. Teresian, Chicago, Ill.
Application October 3, 1951, Serial No. 249,474
8 Claims. (Cl. 20—69)



1. As an article of manufacture, a weatherstrip comprising an integral sponge rubber body which comprises a circular cross-sectioned bead, a rectangularly cross-sectioned base strip of substantially the same cross-sectional area and a connecting web therebetween extending radially from said bead in substantially the same plane as that of one of the surfaces of said base strip and connected to said rectangularly cross-sectioned strip at a corner thereof, said web being from 0.2 to 0.1 of the bead diameter in thickness and separating said bead from said base strip by from 2 to 3 times the web thickness.

2,655,699
APPARATUS FOR AUTOMATICALLY STOPPING DIE CASTING MACHINES IN THE EVENT OF SHOT FAILURE
Louis H. Morin, Breux, N. Y.
Application July 19, 1951, Serial No. 237,611
5 Claims. (Cl. 22—70)

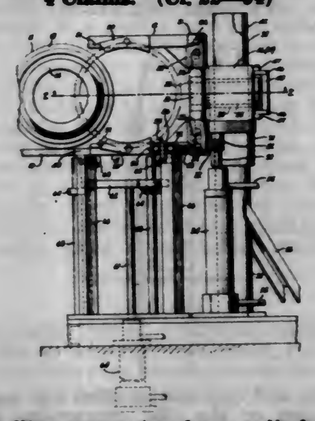
3. In a die casting machine which employs a gooseneck with a plunger operating therein for discharging molten metal under pressure into a die cavity, the combination of a motor controlling operation of the machine, a switch controlling operation of the motor, pneumatic means for operating said switch, means comprising a slide valve for controlling air operation of the plunger and said pneumatic means and means operable



by said plunger for rendering said pneumatic means inoperable at one position of the plunger

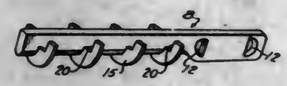
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2,655,700
APPARATUS FOR HANDLING AND SEPARATING CASTING DRUM AND CASTING
Howard J. Snelson, Paris, Ill., assignor to Electrographic Corporation, New York, N. Y., a corporation of Delaware
Application December 28, 1950, Serial No. 203,088
4 Claims. (Cl. 22—94)



1. Handling apparatus for a cylindrical casting drum and a member cast therein comprising a flat horizontal support for receiving said drum in a horizontal position, said support being provided with an opening of sufficient size to receive the drum when it is in a vertical position, means for moving the drum in three ways, said means including a vertically movable support positioned for vertically moving the drum above and into said opening, spaced elements for receiving and holding the drum therebetween by engagement with the cylindrical wall of the drum and mounting means connecting said spaced elements and said vertically movable support, said mounting means including means for rotating said drum from a horizontal position to a vertical position and means for rotating said drum about the vertically movable support, a support at said opening for supporting the drum when in a vertical position, and a vertically movable lift positioned beneath the opening in the flat support for receiving and lowering the cast member from the vertical drum.

2,655,701
MOLDING CORE AND REUSABLE KNOCK-DOWN ARBOR THEREFOR
Hubert V. Hites, Springfield, Ohio, assignor to The Ohio Steel Foundry Company, Lima, Ohio, a corporation of Ohio
Application September 4, 1951, Serial No. 244,933
7 Claims. (Cl. 22—172)



1. A reusable reinforcement for angular shake-out cores for the angular through passages of castings, comprising a main arbor section for one portion of the core, a branch arbor for another portion of the core, a releasable tongue-and-slot connection between said sections holding one in rigid angular relation to the other, and a knockout key in said branch section extending lengthwise of the main section and preventing release of the interengaging sections, said key being removable by a knockout tool applied lengthwise of the main section, and means on the main arbor section for guiding the knockout tocl.

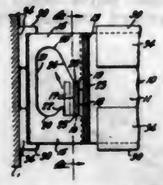
2,655,702
PEN OR PENCIL CLIP
George D. Gorman, Stillwater, Minn.
Application June 2, 1952, Serial No. 294,620
2 Claims. (Cl. 24—11)



1. A clip and cap combination for use with a fountain pen or the like, comprising a barrel member, a notch in the barrel side wall, a resilient bar disposed along the barrel member on a side away from the notch, means at one end of the resilient bar to secure the bar to the cap, and an actuating member connected medially to the bar to force it away from the barrel at its free end, said actuating member extending to the opposite side of the barrel and having a contact end disposed within the notch to be retained within the confines of the dimensions of the barrel.

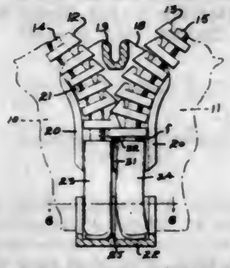
2,655,703
CLAMP
Laurence H. Flora, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application October 8, 1951, Serial No. 250,327
7 Claims. (Cl. 24—16)

1. A clamp comprising a sheet metal band in the form of a normally open loop, means for holding said loop in closed position comprising a portion of said band provided with an opening including a first slot merging into a second smaller slot defining an abutment bordering said smaller slot and a locking lug between said slots projecting into said opening at one side of said opening, the other side of said opening including a laterally enlarged area merging with said smaller slot, and another portion of said band including a tongue having a projecting shoulder, said tongue being adapted to extend through



said first slot and be received in said smaller slot with said shoulder on said tongue bearing on said abutment in the closed position of the loop and with said locking lug engageable with said tongue to retain said tongue in said closed position of the loop, said tongue being removable from said opening upon movement thereof into said laterally enlarged area of said opening to clear said locking lug.

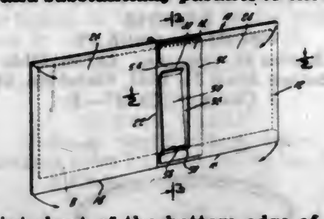
2,655,704
SEPARABLE END CONNECTION FOR SLIDE FASTENERS
Richard W. Simpson, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application February 23, 1950, Serial No. 145,811
4 Claims. (Cl. 24—205.11)



1. A slide fastener comprising a pair of tapes, cooperating rows of fastener elements on adjacent edges of the tapes, a slider movable along the elements for opening and closing the fastener, a separable end connection comprising a retainer attached to one stringer adjacent the row of fastener elements and a pin member on the other stringer insertable through the slider into engagement with said retainer, said pin member being located so that there is some exposed cord between the pin and the adjacent fastener member to permit flexing between those parts, and a horn projecting upwardly and forwardly from the pin member into relatively movable engagement with the head of the adjacent fastener element.

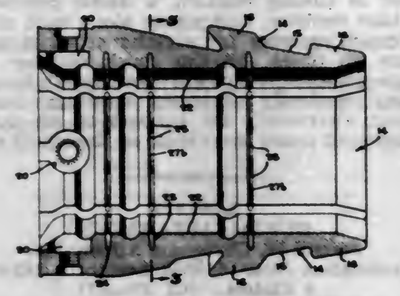
2,655,705
BILLFOLD RETAINER CLIP
Robert L. Hatfield, East Orange, N. J., assignor to Nash Inc., Jersey City, N. J., a corporation of New Jersey
Application March 11, 1950, Serial No. 149,119
1 Claim. (Cl. 24—259)

A bill retainer clamp for securement in a billfold adjacent the fold line thereof, said clamp comprising an originally flat elongated substantially rectangular blank of spring material, a right-angled slit therethrough, one leg of said slit extending inwardly from one long side edge thereof spaced from the top edge, across the width of the blank short of the opposite long side edge, the other leg of said slit extending downwardly and substantially parallel to the long sides



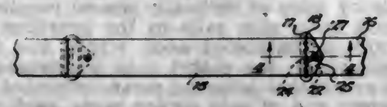
to a point short of the bottom edge of the blank thereby forming a finger portion and a main body portion, said finger portion being bent away from said main body portion at its juncture therewith and then reversely bent towards and past the plane of the main body portion to produce a gripping bias for retention of the bill, and said finger portion being outwardly bent at its free end to form an outwardly projecting end portion.

2,655,706
PIPE SLIP GRIPPING INSERT
John D. Spalding, Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application October 4, 1948, Serial No. 52,733
3 Claims. (Cl. 24—263)



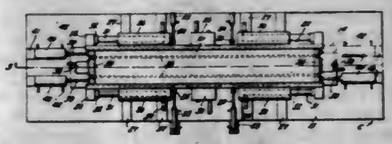
1. A metallic insert for a slip segment, comprising a circular ring sector formed of tungsten carbide or the like, said insert being tapered in cross-section on a radial plane and being of greater thickness near the inner portion of the sector, the insert having an inner edge provided with a work engaging lip.

2,655,707
CONNECTION BETWEEN BAND PARTS AND LOOPS
Irving Rubin, Buffalo, N. Y.
Application February 6, 1951, Serial No. 209,542
1 Claim. (Cl. 24—265)



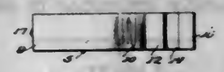
A connection between an end of a fabric band part and a loop of rigid material which has a slot through which said end of the band part is passed, and a projection at a side of said loop intermediate of the ends thereof and having an opening through said projection, said band part having an end portion thereof lying at one face of said projection and passed through said slot and folded back across the other face of said projection, a hem in the end of said band formed by a pair of successive diagonal folds in the end of said band part, said hem lying across said projection and said opening therein, and a metal fastening member which extends through said portions of said band part which lie at opposite faces of said projection, said hem and said opening in said projection holding said loop in substantially fixed relation to said band part.

2,655,708
METHOD AND APPARATUS FOR MOLDING CEMENTITIOUS BODIES
Hecter X. Eschenbrenner, Columbus, Ohio
Application September 23, 1952, Serial No. 310,996
6 Claims. (Cl. 25—41)



6. In apparatus for molding cementitious bodies; a mold comprising a bottom wall and relatively movable side and end walls, the walls of said mold defining therein a mold cavity for the reception of a plastic mix and metallic rods arranged to be imbedded in said mix to reinforce the same; means for connecting a plurality of metallic reinforcing rods between the end walls of said mold; means connected with the end walls of said mold for moving the same relatively apart and thereby to tension the reinforcing rods connected therebetween; means connected with the side walls of said mold for placing the latter under tensile stress; and vibrator means connected with the side walls of said mold for vibrating the latter when placed under tensile stress.

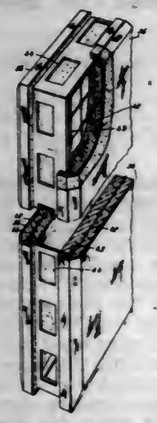
2,655,709
CERAMIC PETAL CUTTING MEANS
Rex E. Gentry, Chesterfield, Ind.
Application February 29, 1952, Serial No. 274,190
3 Claims. (Cl. 25—105)



1. A perimetrical cutter for producing ceramic blanks for simulating of roses and the like, said cutters comprising a body of strip type formed of springy metal of uniform width and thickness to provide a cutter having its opposite edges of similar dimensions and contour to permit either edge to serve as the cutting edge, said strip having an intermediate portion of its length shaped into an arcuate curvature for a distance of at least a semi-circular length of 180°, the curved shaping being continued from the ends of such intermediate length with the curvature at a slower rate and approaching a position diametrically opposite the mid-point of the intermediate curvature of the strip length, the positions being spaced apart the distance of the width of the petal stem of the blank, the end areas of the strip being connected with the ends of such curvature length by a first abrupt turn and continued in parallel relation for a distance to provide the length and width of the stem, and then continued with a
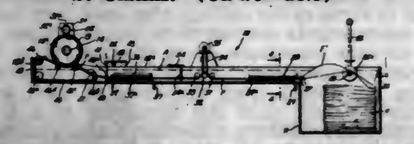
second abrupt turn for continuation through an inclined length into a contact relation of short length and terminating in a secured end by one strip end extending in overlapped relation to the other end of the strip, the mid-length point of the curvature length having a concavo-convex member projecting outwardly therefrom, the formed blank receiving its manual manipulations at will and prior to subjecting the complete blank to the final ceramic regimen treatment.

2,655,710
METHOD OF MAKING BUILDING PANELS
Burns Roensch, Houston, Tex., and Paul Brown, New York, N. Y., assignors, by mesne assignments, to Daystrom, Incorporated, a corporation of New Jersey
Application May 1, 1947, Serial No. 745,232
9 Claims. (Cl. 25—154)



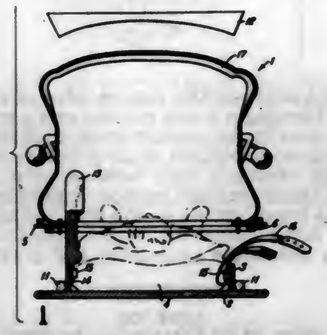
1. The process of making a reinforced concrete building panel which comprises placing a sheet of reinforcing fabric in a mold having a suction surface, pouring concrete into the mold in contact with said fabric, applying a vacuum to the concrete through said surface of the mold with a surface of the concrete exposed to the atmosphere, whereby water and fine particles of cement are drawn from the concrete through said fabric to embed the same in a layer of cement, and separating the panel from the mold with the fabric permanently embedded in one surface of the panel.

2,655,711
SHRINKPROOFING OF FABRICS
Charles G. Hatay, Georgetown, Mass., assignor to E-Z Mills, Inc., New York, N. Y., a corporation of New York
Application January 5, 1950, Serial No. 136,958
20 Claims. (Cl. 26—18.5)



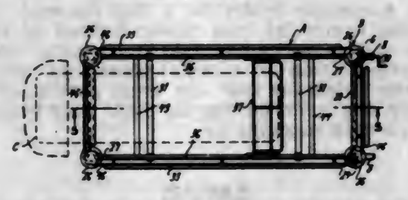
11. A process for treating textile fabrics, which comprises placing the fabric, while completely wetted with a wetting agent, in a substantially tensionless and compressionless condition to cause displacement of the fabric fibres by the internal stresses therein, thereby relieving said stresses, winding a length of the de-stressed fabric into a coil on an electrically conductive mandrel, and passing an alternating electric current through the coil of de-stressed fabric from outside the coil to the mandrel as an electrode, to cause internal heating of the coil di-electrically until it is substantially freed of the wetting agent by evaporation.

2,655,712
BURIAL CASKET
Charles W. Glassner, Akron, Ohio
Application April 30, 1948, Serial No. 24,181
1 Claim. (Cl. 27—2)



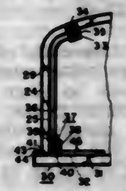
A burial casket comprising a top closure of continuous and imperforate structure having dependent sides forming substantially the entire vertical extent of the casket, a separate, low base member upon which the top closure is received in closing relation, a couch member on the base member, and means along each side of the couch member for attachment of straps to secure an object on the couch member, said means comprising upright panels with brackets having vertically arranged openings, thereby serving alternately for support of an upright background panel lengthwise of the couch member.

2,655,713
BURIAL APPARATUS
Merrill W. Chrisman, Affton, Mo.
Application June 14, 1950, Serial No. 168,076
4 Claims. (Cl. 27—37)



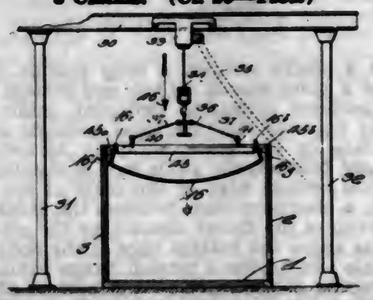
1. A burial device for transporting a casket from the hearse to the grave-site and then lowering the casket into the grave comprising a rectangular frame having four corner posts rigidly connected transversely by end rails and longitudinally by pairs of vertically spaced parallel upper and lower side rails in the provision of a normally unobstructed area within the frame through which the casket may be lowered into the grave, casket-lowering means mounted upon the upper end of said corner posts, said casket lowering means including juxtaposed parallel tape-rollers positioned above the upper side rails, casket-supporting tapes operatively rolled up on and extending between said tape-rollers, said tapes being adapted to assume a horizontal position between the tape-rollers when rolled up tightly thereon, and means swingably mounted on one of the upper side rails and adapted to swing across said unobstructed area and rest upon the other upper side rail in downwardly spaced relation to the horizontal position assumed by the casket-supporting tapes whereby the casket can rest upon said means while it is being transferred from the hearse to the burial device and be lifted therefrom by the tapes when desired.

2,655,714
BURIAL VAULT
John A. Resch, Lima, Ohio
Application April 25, 1950, Serial No. 157,919
5 Claims. (Cl. 27—35)



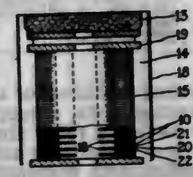
3. A burial vault comprising a container for a casket, said container having walls spaced apart and sealed to a bottom plate member, hollow reinforcing ribs extending along the plate member, openings through said ribs to place the interior thereof in communication with the interior of the container, and means for evacuating the interiors of the container and the ribs.

2,655,715
METHOD OF LAYING SHEET METALLIC FLOORING
Walter G. Koch, Evansville, Ind., assignor to International Steel Company, Evansville, Ind., a corporation of Indiana
Application January 6, 1949, Serial No. 69,525
3 Claims. (Cl. 29—148.2)



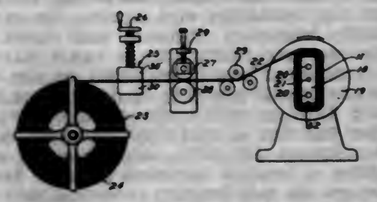
1. The method of laying a sheet of substantially flat metallic flooring in a restricted space which consists in bending opposite sides of a flat metallic sheet of flooring upwardly, perforating the upwardly bent sides at spaced intervals along the length thereof, suspending the metallic sheet from the perforations in the bent sides, centering the suspended sheet over a confined area in which the sheet of flooring is to be deposited on a base, lowering the flooring through the confined area while the flooring gravitates downwardly at its center along a catenary curve, resting the curved portion of the flooring on a base support, and laying the co-extensive portions of the sheet on the base support while imparting an outwardly flexing bodily movement to the sides of the sheet for freeing the perforations thereof from the suspensions.

2,655,716
METHOD OF MANUFACTURING POWDERED METAL PLATES
Frank De Marinis, Cleveland Heights, Ohio, assignor to The S. K. Wellman Company, Cleveland, Ohio, a corporation of Ohio
Original application December 28, 1944, Serial No. 570,079. Divided and this application April 21, 1949, Serial No. 88,881
2 Claims. (Cl. 29—152)



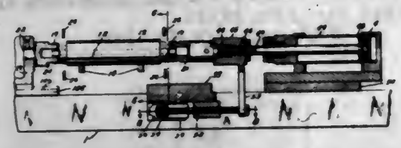
2. A method of manufacturing friction plates from metallic cores and briquettes of powdered material which tend to creep when subjected to high temperatures and pressures which comprises conditioning at least one selected surface of each core to promote a bond with said powdered material, positioning briquettes of powdered material, comprising powdered copper and tin as the principal ingredients and silica, carbon, and ferrous material, in contact with said conditioned surfaces to form assemblies, arranging said assemblies in stacks alternating with separator members comprising thin separator plates of an alloy comprising chromium about 11 to 15%, nickel about 70 to 80%, manganese about 1% maximum, silicon about .5%, carbon about .15% and the remainder principally ferrous material, subjecting said stack to a pressure of from 100 to 250 pounds per square inch at a temperature around 1450° F. and simultaneously inhibiting the creep of said cores and causing the bonding of said briquettes to said cores.

2,655,717
METHOD OF FORMING WOUND MAGNETIC CORES
Ulysses S. Dunn, Chicago, Ill.
Application March 24, 1947, Serial No. 736,688
2 Claims. (Cl. 29—155.58)



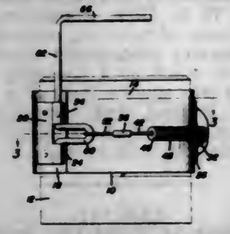
1. The method of forming a hollow wound core of magnetic strip material comprising the steps of, winding a length of said strip material on a form having two substantially parallel straight sides, with the tension in said strip prior to its disposition on the already accumulated turns on said form decreasing gradually as the turns accumulate, clamping the wound length of strip tightly along said two sides, annealing said clamped wound strip, clamping one of said straight sides and the contiguous side at their juncture to tightly compact said wound strips thereat, and cutting said wound strips at said juncture between said clamped portions.

2,655,718
MACHINE FOR ASSEMBLING ROLLERS
Otto P. Haegele, Columbus, Ohio, assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application July 1, 1947, Serial No. 758,416
8 Claims. (Cl. 29—201)



1. In an assembling machine for an idler which comprises cooperating parts, a support for a tubular idler roller having a roller shaft extending therethrough, devices for moving said roller shaft into centered relation with respect to said tubular roller, supports at the opposite ends of said roller for receiving end supporting sleeves for said roller shaft, and power operated means for moving said end supports toward one another to press said end sleeves into assembled relation with respect to said shaft and said roller thereby to maintain said shaft centered with respect to said roller.

2,655,719
PISTON RING COMPRESSOR
John F. Nelson, Oregon City, Oreg.
Application May 2, 1950, Serial No. 159,505
2 Claims. (Cl. 29—222)



1. A piston ring compressor comprising a flexible band having overlapping relatively slidable ends, a band contracting member, means adjustably attaching said member to one portion of said band, a locking lever pivoted to another portion of said band and connected with said member for tensioning and locking the same in adjustably tensioned position, said band contracting member comprising a cable having a plurality of disks loosely mounted on the cable, an end one of said plurality of disks being longitudinally fixed on said cable, means preventing the other end disk of said disks from moving beyond a point on said cable, said adjusting means comprising a bracket mounted on said band, a notched ear on said bracket receiving said cable in its notch and selectively insertable between adjacent disks, said loosely mounted disks being movable apart on said cable to permit the notched ear of the bracket to enter between the disks.

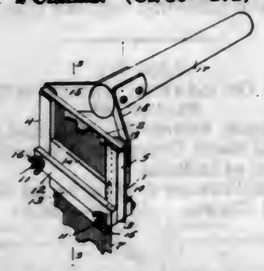
2,655,720
BRAKE ANCHOR TOOL
James B. Durham, Fort Payne, Ala.
Application September 26, 1949, Serial No. 117,820
1 Claim. (Cl. 29—229)

A brake anchor pin washer removing tool comprising a pair of flat elongated legs, first ends of said legs being in overlying relation and pivotally connected together, the other ends of said legs being free for movement with respect to each other, inner edge portions of said other ends being convergingly tapered towards their free edges and of reduced thickness to facilitate engagement within a washer receiving groove of a brake anchor pin, free ends of said inner edge portions being provided with recessed



seats for receiving free ends of a brake anchor pin washer, said legs being oppositely bowed intermediate their ends to align said inner edge portions in a common plane, said legs being adapted to impart downwardly and outwardly directed thrusts on the free ends of a brake anchor pin washer in response to downward driving of the tool.

2,655,721
ADJUSTABLE PROFILE SCRAPER
Nathan Einhorn, Philadelphia, Pa.
Application December 6, 1949, Serial No. 131,361
2 Claims. (Cl. 30—171)



1. In a profile scraper, a body portion in the form of a plate having its top and bottom marginal portions forwardly deflected, guide bars fixed to opposite side marginal portions of the front face of the plate, scraping elements in alignment between the guide bars and extending below the bottom edge of the plate of the body portion, a clamping plate between the guide bars and having a top flange contacting the scraping elements above the bottom edge of the body portion plate and having a bottom flange contacting the scraping elements below the bottom edge of the body portion plate, a cross bar connected with the clamping plate, and fastening devices connected with the body portion plate, the guide bars and the cross bar to maintain the scraping elements in clamped condition.

2,655,722
CAM CLOSING HAND TOOL
Karl J. Klenk, Wilmington, Del.
Application May 24, 1952, Serial No. 289,777
3 Claims. (Cl. 30—252)

1. A cam closing hand tool comprising a pair of pivotally connected hand levers having longitudinally extending channels open at the pivotally connected ends of said levers, a pair of pivotally connected jaw levers entered in the open ends of said channels, the outer edges of said jaw levers and the inner surfaces of said channels in the hand levers having companion cam surfaces in rolling, sliding engagement in the closing action of the hand levers and jaw levers, one pair of said levers having transversely extended openings therethrough and the other pair of said levers having pins extending through



said openings, said openings being of sufficient transverse extent to permit engagement of said companion cam surfaces on the two pairs of levers in the jaw closing action of the levers, and spring means supported between the levers and tensioned to hold the companion cam surfaces in engagement.

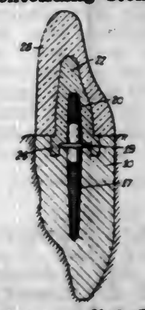
2,655,723
SCALPEL
William E. Steele, Seattle, Wash.
Application January 8, 1949, Serial No. 69,865
8 Claims. (Cl. 30—339)



1. A detachable blade scalpel comprising a generally flat and elongated blade having a cutting end portion and a butt end, a handle having a tongue projecting lengthwise beyond one end thereof, one face of said tongue being generally planar, blade-retaining means on said tongue spaced a substantial distance from its root and cooperable blade-retaining means on said blade generally intermediate its ends, said two blade-retaining means being releasably interengageable to hold the blade pressed flatly against said generally planar tongue face along the projecting end portion of said tongue beyond said blade-retaining means, and bulbous means increasing the thickness of the butt end of said blade and engageable with said generally planar tongue face at the root portion of said tongue for springing the butt end of the blade outwardly from said tongue face and thereby placing such blade under tension between its butt end and its generally intermediate retaining means engaged with the blade-retaining means on the tongue, said handle further having means thereon cooperating with the butt end of the blade to prevent transverse edgewise movement of such butt end relative to the handle.

2,655,724
CROWN TOOTH SUPPORT
Phillips Brooks, Brooklyn, N. Y.
Application October 25, 1951, Serial No. 253,083
5 Claims. (Cl. 32—13)

1. A crown tooth assembly for mounting on a prepared tooth root having a socket opening upwardly into a circular recess formed with an annular trough in the bottom thereof; said assembly comprising a plastic stump formed with a non-symmetrical outer configuration and having an enlarged circular base formed with a depending peripheral flange for engagement in the annular trough of the tooth root and defining a central recess, said stump having a vertical bore opening downwardly into said central recess, an anchoring dowel including axially aligned and oppositely extending stem and shank por-



tions separated by a radial flange and adapted to extend into said bore of the stump and the tooth root socket, respectively, and a plastic crown tooth having a hollowed out central portion opening downwardly to receive said stump.

2,655,725
ROTARY GRINDING IMPLEMENT
Frederick C. Fehrman, Washington, D. C.
Application November 24, 1952, Serial No. 322,194
4 Claims. (Cl. 32—29)



1. A grinding implement comprising a hand piece, a rotary holding unit journalled upon the hand piece, a flexible drive shaft connecting with the holding unit to turn it, a slender spindle held within the holding unit for rotation therewith and extending forwardly of the holding unit, a grinding burr secured to the slender spindle, a sleeve surrounding the slender spindle forwardly of the rotary holding unit and serving as a bearing for the spindle and being slender, a guard carried by the sleeve and partially surrounding the grinding burr and having a side opening for exposing a side of the burr, and an adjusting handle secured to the sleeve rearwardly of said guard and having a part extending adjacent to said hand piece and adapted to be held by the fingers for securing the guard in the selected circumferentially adjusted position relative to the burr.

2,655,726
DENTAL INSTRUMENT
Jack Diener, Washington, D. C.
Application December 8, 1952, Serial No. 324,746
9 Claims. (Cl. 32—46)

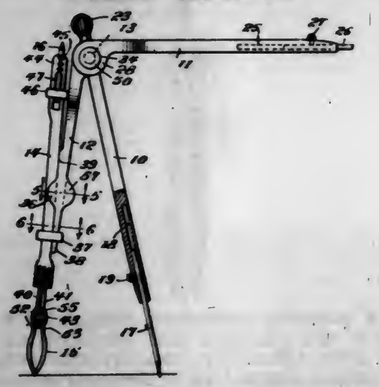
1. A dental instrument, comprising a handle, and an applicator portion projecting therefrom,

said applicator portion having a flat ledge thereon and a working surface adjacent to said ledge,



wherein said working surface and said ledge meet in an obtuse angle, whereby said ledge acts as a guide during the use of said working surface.

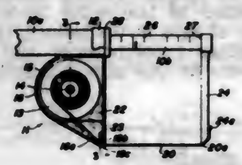
2,655,727
LOCKING PEN AND PENCIL COMPASS AND DIVIDER
Eulalio M. Varona, Oscar B. Varona, and Olivio B. Varona, Manila, Republic of Philippines, assignors of one-half to Manuel Salientes, Jose B. Ramos, and Ciriaco Montano, all of Washington, D. C., jointly
Application October 18, 1950, Serial No. 190,756
7 Claims. (Cl. 33—27)



1. A drawing instrument comprising a pair of divider legs and a compass leg, each of said legs having hubs on one of the ends thereof and said hubs having cam surfaces on abutting faces thereof, a pin extended through the hubs providing a pivotal mounting for the legs, and points carried by the ends of the legs opposite to the ends on which the hubs are positioned.

2,655,728
TELESCOPIC CHALK LINE DEVICE
Roy W. Cook, Green River, Utah
Application December 10, 1951, Serial No. 260,968
5 Claims. (Cl. 33—87)

1. Apparatus of the nature described, comprising the combination with a self-chalking chalk line device having a line-emitting lip substantially coincident with one side of the device, of a telescopic rod having its base section formed as a handle to which said chalk line is attached so that its said one side is spaced laterally of the rod and its said line-emitting lip lies in substantial registry with that end of said base section from which said rod is extended; and means at the free ter-



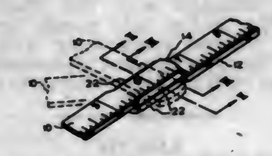
minus of the terminal section of said rod for holding the free end of said chalk line.

2,655,729
SQUARE ASSEMBLY HOLDER
Sylvester Panske, Neenah, Wis.
Application August 7, 1953, Serial No. 373,124
5 Claims. (Cl. 33—90)



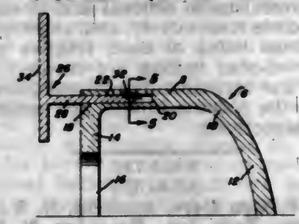
1. A square holder comprising a rigid metal plate having first and second edges disposed at right angles to each other, a slot in said first edge disposed substantially parallel to said second edge, said slot being adapted to receive the tongue of a steel square, a plurality of stops adapted to support the body of a square in parallel relation to said second edge, clamping means cooperating with said stops, a stop mounted in the face of said plate in spaced relation to said slot, said stop having a height equal to the width of the body of a steel square.

2,655,730
JOINT FOR FOLDING RULES
Neil H. Proctor, Rives Junction, Mich.
Application August 2, 1951, Serial No. 239,904
4 Claims. (Cl. 33—120)



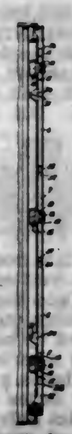
1. A joint for folding rules comprising a pair of sheet metal channel shaped parts in which the ends of adjacent rule sections are clamped by the sides of the channel, means defining a pivotal connection between said parts with said parts in back-to-back relationship, the webs of the channel of said parts having portions deflected out of the planes thereof away from the channels in which the rule sections are clamped, said deflected portions of said parts mating with each other to releasably interlock said parts in different positions of angular adjustment.

2,655,731
LOST MOTION MEASURING TOOL
Carl G. Sibble, Tiemesta, Pa.
Application June 12, 1952, Serial No. 293,181
2 Claims. (Cl. 33—169)



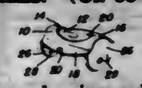
2. A measuring tool to detect and ascertain undue lost motion and play in a mounted vehicle wheel comprising a tripodal stand of predetermined mass and consequent heaviness adapted to set in a firm and reliable position on the floor close to the wheel to be measured, said stand embodying a vertical inverted U-shaped yoke providing a pair of depending support legs, a horizontal bar member with its axis in a position at right angles to the main plane of said yoke and having one end joined to the upper central portion of the yoke, the opposite end depending laterally and defining a third support leg situated in a position spaced from but midway between the first named support leg and provided at its opposite end with a bore opening through said opposite end and forming a socket, the top side of said bar member having recess means provided with graduations, a T-shaped member including a horizontal stem portion telescopically and slidably mounted in said socket and including a head at right angles to the stem and spaced outwardly from but in close proximity to the adjacent face of the yoke, and indicator means on said stem cooperating adjustably with the graduations, said head being adapted to abut a cooperating surface of the wheel which is to be checked.

2,655,732
BUTT-GAUGING TOOL
Herbert T. Morgan, Santa Ana, Calif.
Application March 13, 1950, Serial No. 149,390
5 Claims. (Cl. 33—197)



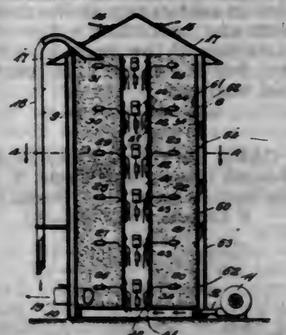
1. A door and jamb butt-marking tool comprising a plurality of connected sections including a middle and two end sections all of substantially equal lengths, a die marker mounted at the mid-point of the middle section, holding plates mounted at opposite sides of said die marker, door or door jamb end-engaging stop members swingably mounted at the ends of the respective end sections, yielding means tending to maintain said stop members in operative position, said holding plates being located adjacent said stop members, and die markers mounted on the end sections adjacent said holding plates, the die markers being spaced at equal distances from the respective ends of the end sections so that the tool can be used for either right or left hand swinging doors.

2,655,733
HANDSAW LEVEL
Francisco G. Costa, Taunton, Mass.
Application March 13, 1952, Serial No. 276,274
3 Claims. (Cl. 33—207)



1. In a hand saw having a hand grip with an upper V-shaped recess, a casing removably secured to the hand grip within the recess and having an open bottom, laterally projecting ears integrally formed with the ends of the casing and removably secured against opposite sides of the hand grip, and a spirit level mounted in the casing through said open bottom, said casing having an upper wall provided with an opening in registry with the level.

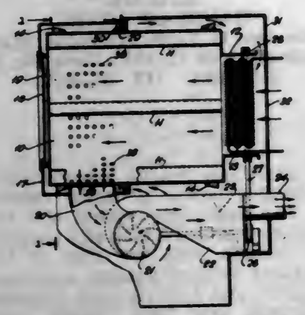
2,655,734
APPARATUS FOR CONTROLLING HUMIDITY CONDITIONS IN BULK MATERIALS
Carlton E. Ohlheiser, Silver Spring, Md., assignor to The American Instrument Company, Silver Spring, Md., a corporation of Maryland
Application November 3, 1948, Serial No. 58,146
5 Claims. (Cl. 34—54)



1. A structure for storing grain and other granular materials at varying levels comprising a housing for storing bulk grain and other granular materials in a substantially vertical stack, a central air duct extending through said housing, a blower operating to force air through said central air duct, a multiplicity of humidity sensing elements inserted in the grain or other granular materials at different levels and responsive to changes in localized humidity conditions at the varying levels through said housing, means responsive to changes in humidity conditions arising in the humidity sensing elements for restricting the flow of air through said duct and diverting the air flowing through said central air duct into substantially horizontal paths through the grain or other granular ma-

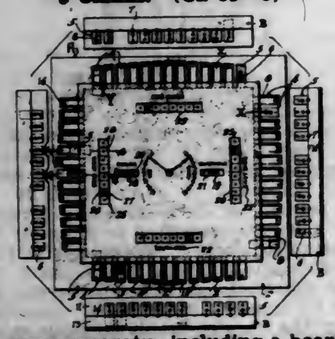
terial at different levels thereof for restoring conditions of humidity at the said levels to normalcy, and an annular stack surrounding said housing, said housing having screened ports therein interconnecting said housing with said annular stack at various levels for discharging air forced through the bulk material at the various levels under control of said humidity sensing elements through said annular stack.

2,655,735
DRYING MACHINE
Abraham Traube, Brooklyn, N. Y.
Application September 26, 1950, Serial No. 186,742
6 Claims. (Cl. 34—133)



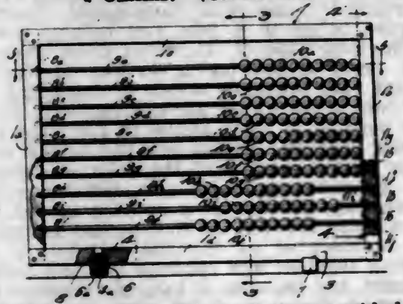
1. A drying machine for clothes and other articles, comprising a rotary drum for such articles, a reduced air-receiving portion on one end of the drum, a heating element projecting axially into said reduced portion to heat air admitted to the drum, air outlet openings localized in a circumferential portion of the drum remote from said heating element, an air-receiving duct, means causing drying air to pass over said heating element, to traverse the drum in contact with said articles and to escape by said openings to said duct, a casing enclosing the drum, an opening provided in said casing at the medial portion of said drum and permitting a flow of air externally of a portion of the drum to said duct, and an auxiliary heating element for partially heating the said air flow.

2,655,736
CARD GAME APPARATUS
Joseph Lipschitz, Hillside, N. J.
Application September 5, 1947, Serial No. 772,397
6 Claims. (Cl. 35—8)



1. A game apparatus including a board having a series of openings facing upwardly through the top surface of the board, a game piece reciprocable across each opening and having playing indicia on a portion thereof, a sheet beneath said board having an indicium thereon in register with each opening to indicate the order of play of the corresponding game piece, said board having means adjacent each opening beneath and from under which the corresponding game piece may be slid upon movement of the game pieces in opposite directions to conceal and to expose said playing indicia respectively, said game-pieces and said openings being of such relative sizes that said order-of-play indicia are exposed and concealed by the corresponding game-pieces at the same time the playing indicia are concealed and exposed respectively.

2,655,737
ABACUS
Sylvester F. Don Dero, Baldwin, N. Y., assignor to Daintee Toys, Inc., Brooklyn, N. Y., a corporation of New York
Application March 28, 1952, Serial No. 279,145
4 Claims. (Cl. 35—33)



1. An abacus comprising a frame provided with a socket in one end thereof, a rod having a multiplicity of co-acting slidable beads thereon, said rod having an end portion slidably insertable into said aforementioned socket, the other end of said frame having a recess therein, an annular guide apertured centrally thereof and inserted in said recess, a socket disposed behind said recess and in the last mentioned end of said frame, and a compression coil spring mounted in said socket and having the radius of the end turns thereof reduced in section and aligned with and bearing upon the end of said rod inserted through said guide for yieldingly biasing said rod linearly into engagement with the socket in said first mentioned end of said frame.

2,655,738
SIGHT READING DEVICE
Augustus E. Shapiro and Marvin Motsky, Newark, N. J.
Application June 13, 1952, Serial No. 293,278
5 Claims. (Cl. 35—35)



1. A device of the class described comprising a base member having a vertical stud centrally disposed on the upper face thereof, a disc having an annular hub rotatably mounted on said stud, an indicia card carried by said disc for rotation therewith and having a series of indicia of predetermined characteristics arranged in a circular row and a second series of indicia of predetermined characteristics different from and complementary to those of said first row and arranged in a circular row radially spaced from said first row, said annular hub extending upwardly from said disc and terminating in a knob

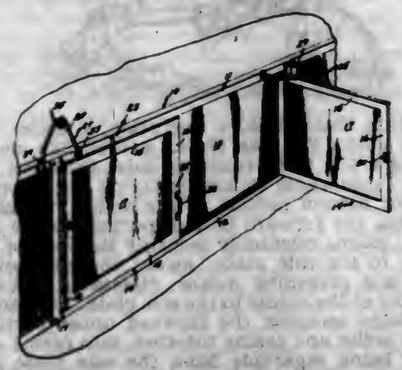
adapted to be turned to effect rotation of said disc, an annular cover member mounted on said base member having a central bore for accommodating said hub and a window opening in alignment with said first row of indicia and a second window opening in alignment with said second row of indicia, each of said window openings being so dimensioned as to expose an individual indicium of a respective row, means normally closing one of said window openings and adapted to be moved to uncover said opening, and mutually cooperating means on said stud and hub for arresting rotation of said disc with an individual indicium of each row in registration with a respective window opening.

2,655,739
HOROLOGICAL EDUCATIONAL DEVICE
Edna T. Wilmington, Chicago, Ill.
Application June 6, 1952, Serial No. 292,122
2 Claims. (Cl. 35—39)



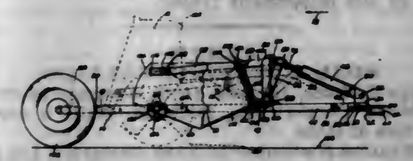
1. An horological educational device of the character described, comprising dial means having imprinted thereon hourly indicia and minute indicia thereabove from 5 minutes to 60 minutes in increments of 5 minutes, transparent disc means having a peripherally opaque coronal portion interrupted by a transparent arcuate section and being of such radial magnitude as to cause the said opaque portion to coincide with the portion occupied by the said minute indicia, and having a minute hand opaquely imprinted thereon its tip portion being translucent and being positioned centrally of the said transparent arcuate section, an hour hand element, and attaching means for securing the said transparent disc means and the said hour hand element in independently rotatable relationships to the said dial means.

2,655,740
RECORDING AND DISPLAY DEVICE
Susan F. Goodrich, Augusta, Ga.
Application January 18, 1951, Serial No. 206,630
2 Claims. (Cl. 35—64)



1. A display device having in combination with a fixed panel having a display surface, at least one auxiliary panel having display surfaces on both sides, hinged at an edge to the fixed panel, stud means pivotally mounted on the auxiliary panel, a stud engaging yoke hingedly mounted on the fixed panel and adapted to secure the auxiliary panel in open position with respect to the fixed panel, means for locking the auxiliary panel to secure the auxiliary panel in closed relation to the fixed panel, and clamp means on the fixed panel adjacent the yoke to hold the yoke upright as the auxiliary panel is closed against the fixed panel.

2,655,741
FRONT APRON CONSTRUCTION FOR CARRY-TYPE EARTH SCOOP
Ben F. Owen, Omaha, Nebr.
Application June 2, 1950, Serial No. 165,955
2 Claims. (Cl. 37—129)

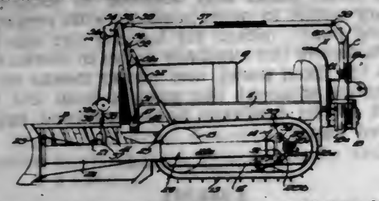


1. In a hydraulically actuated dump scoop, the combination which comprises a horizontally disposed substantially rectangular-shape frame having side bars with converging forward ends and having spaced arms extended from the rear, a hitch carried by the forward ends of the side bars, wheel mounting hubs positioned on the side bars of the frame and on the arms extended from the rear thereof, a pair of wheels having stub shafts for removably mounting the wheels in the hubs of the frame, a transversely disposed shaft positioned below the frame and carried by depending flanges of the hubs, a scoop pivotally mounted by the shaft in the frame, an arcuate transversely disposed web positioned to coact with the forward end of the scoop to form a front wall thereof with the scoop in the position of transporting materials, a hydraulic cylinder positioned on the forward part of the frame, a rocker shaft pivotally mounted on the frame and positioned between the scoop and cylinder, a centrally positioned lever extended upwardly from the rocker shaft, a connecting rod connecting the upper end of the lever to the cylinder, arms extended upwardly from the ends of the rocker shaft, links connecting the upper ends of the arms to the sides of the scoop at points positioned above and spaced forwardly of said shaft with the scoop in an upper horisontally disposed transporting position, the said front wall of the scoop having an opening therein positioned to receive the end of the connecting rod and lever, and a sheet of resilient material extended across the said front wall for receiving the end of the connecting rod and lever to prevent leakage from the scoop in traveling.

2,655,742
CABLE MOUNTING FOR SCRAPERS OR GRADERS
Harry H. Washbond, Springfield, Ill., assignor to The Baker Manufacturing Company, Springfield, Ill., a corporation of Illinois
Original application April 21, 1945, Serial No. 589,593. Divided and this application October 6, 1949, Serial No. 119,269
6 Claims. (Cl. 37—144)

1. In a cable actuated implement frame for a tractor or the like, a universal joint carried by

said frame, a rigid bar carried by said joint, a sheave frame on said bar, a leaf spring having one end pivotally carried by said frame and the other end acting on said bar, a strap anchored on said bar embracing the other end of the leaf



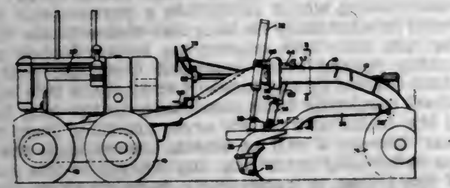
spring, said leaf spring urging said bar into upright position, and said universal joint allowing swinging movement of the sheave frame relative to the implement frame to provide for a direct pull of the cable irrespective of the tilted position of the implement frame.

2,655,743

ROAD WORKING APPARATUS

George E. Ross, Nevada, Ohio, assignor to W. A. Riddell Corporation, Bucyrus, Ohio, a corporation of Ohio

Application November 16, 1950, Serial No. 196,036
11 Claims. (Cl. 37—156)



1. In a road grader having a main frame supported on wheels, a carriage pivotally secured to the frame and supporting a mold board thereon, means for moving the carriage laterally and upwardly including a rocker arm journaled adjacent its mid-point to the main frame and having ends projecting laterally of the main frame, a manually operated latch operatively associated with the rocker arm releasably securing said rocker arm in any one of three angular positions relative to the main frame, a pair of hydraulic actuators linking the ends of the rocker arm to the carriage whereby the carriaeg is lifted to either side of the grader, a cross-shift hydraulic actuator secured at one end to the carriage, a cross-shift arm pivotally secured at one end to the rocker arm intermediate the mid-point and one end of the rocker arm, said cross-shift arm being pivotally secured at its other end to the cross-shift actuator, and a manually operated latch operatively associated with the cross-shift arm and releasably securing the cross-shift arm in any one of three positions relative to the rocker arm.

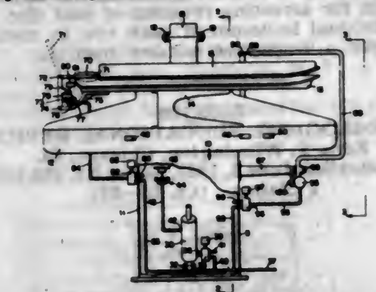
2,655,744

CONTROL FOR FLUID OPERATED PRESSES

Benjamin Alvin Buss, East Moline, Ill., assignor to American Machine and Metals, Inc., New York, N. Y., a corporation of Delaware

Application October 15, 1948, Serial No. 54,720
4 Claims. (Cl. 38—13)

1. In a fluid actuated and electrically controlled shirt press complete with a neck band clamp and a tail clamp, all of which can be released by an instantaneous contact with a single switch which will permit the fluid to escape and reset the press, in combination, a source of fluid under pressure, a press buck, a neck band clamp cooperating with said buck, a tail clamp also cooperating with said buck, a head movable against said buck, fluid operated means connected with said head and said source of fluid for moving said head against said buck, a prime electric circuit for controlling the admissions of fluid to said fluid operated means, a fluid operated holding means for each of said clamps connected with said press and said fluid source, secondary electric circuits for controlling the admission of fluid to said clamp holding means, switches in said secondary



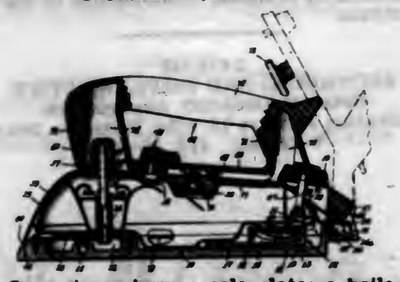
circuits adapted to be mechanically engaged and closed by the manual positioning of said clamps, a first relay in said prime circuit, a maintaining circuit holding said first relay closed, a second relay adapted to open the secondary circuits associated with the holding means, a maintaining circuit to cause said second relay to hold said secondary circuits open, and a double action switch included in said prime and maintaining circuits which when instantaneously manualy actuated breaks the maintaining circuit of the first relay in the prime circuit and establishes the maintaining circuit for the second relay.

2,655,745

ELECTRIC STEAM IRON

Joseph O. Thibault, Bridgeport, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut

Application May 16, 1950, Serial No. 162,177
5 Claims. (Cl. 38—77)



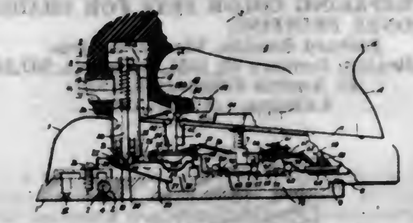
1. In a steam iron, a sole plate; a boiler disposed above the sole plate; a shell-like casing having a top and depending sides enclosing the boiler; removable means engaging the forward interior bottom portion of the boiler, releasably securing the forward bottom portion to the sole plate; means releasably securing the rear of the boiler to the sole plate; means independent of both said preceding means, releasably securing the rear of the casing to the sole plate; and means releasably securing the forward upper portions of the boiler and casing together, said casing and boiler being separable from the sole plate and from each other whereby replacement of the boiler may be readily effected.

2,655,746

UNITARY STEAM AND TEMPERATURE CONTROL FOR STEAM IRONS

Donald L. McFarland and Walter E. Moore, Stratford, Conn., assignors to General Electric Company, a corporation of New York

Application April 25, 1951, Serial No. 222,806
4 Claims. (Cl. 38—77)



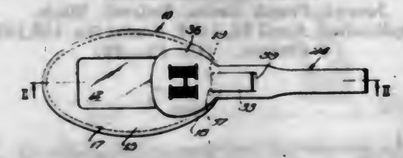
1. In an iron, a water reservoir, a steam generator, a valve providing liquid flow control from said reservoir to said generator, electrical means for heating said reservoir, a rotatable control member for regulating the heating from said electrical means upon rotation of said member, a lever pivotally mounted on said control member transversely of said member to pivot in a plane including the axis of rotation of said member and adapted to turn said member by arcuate movement thereabout and therewith in a plane transverse to said axis, a cam surface positioned under the path of said arcuate movement, said surface limiting pivotal movement of said lever to a predetermined angular position of said rotatable member, and mechanical connections for operating said valve in response to pivotal movement of said lever.

2,655,747

LUGGAGE TAG STRAP

Morris L. Duskin, Chicago, Ill.

Application January 23, 1952, Serial No. 267,881
5 Claims. (Cl. 40—21)



3. In a structure of the character described, a strap, a first member of a snap fastener secured at one end of said strap, a second member of said snap fastener secured to said strap in spaced relation inwardly from said first member and facing in the opposite direction on said strap, said strap having an opening spaced longitudinally inwardly from said second snap fastening member for receiving said one end of said strap and said first fastening member therethrough, the other end of said strap having a pair of longitudinally spaced openings for receiving said one end and said first fastening member, said one end being adapted to be threaded through the outer of said spaced openings of said other end and then through the inner of said spaced openings and then through the opening spaced inwardly from said second fastening element to bring said fastening elements into opposed operative relation for snapping together to provide a closed pair of loops, and a shoulder formed on the side of said second snap member toward said first snap member for opposing said other end of said strap when said strap is threaded into operative relation, said other end of said strap having an enlarged terminal portion opposing said shoulder for positioning an identification tag or the like therebetween.

2,655,748

CURB TYPE REFLECTORIZED DIRECTIONAL STREET SIGN

Hugh H. Hirt, Riverside, Calif.

Application June 9, 1951, Serial No. 230,768
1 Claim. (Cl. 40—125)



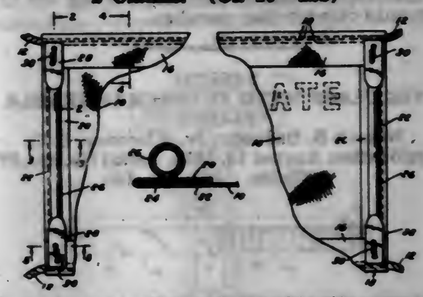
A curb type street sign comprising a base, end portions extending normally from the base, and a front inclined portion extending between the end portions and normal thereto connected along its lower edge with the base, and anchor means adapted to extend from the base over the side of the curb to be covered with fill dirt, and said anchor means including spaced Z-shaped brackets having upper portions extending under the base and secured to the base, and other lower portions extending normally outwardly from the curb, and an anchor plate extending between the lower outwardly extending portions, and said upper portions having depending end hook portions adapted to engage with the front edge of the curb to retain the sign against laterally displacement relative to the curb.

2,655,749

SIGN STRUCTURE

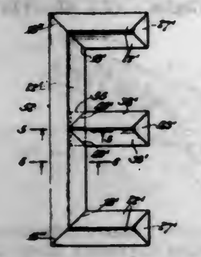
Timothy J. La Fontaine, Detroit, Mich.

Application January 18, 1952, Serial No. 267,155
2 Claims. (Cl. 40—125)



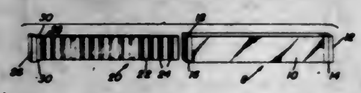
2. A sign comprising, in combination, an elongated flexible rectangular sheet of fabric material forming the body of the sign, a pair of flexible tensioning elements extending lengthwise of the sheet along the opposite longitudinal marginal portions of the sheet, each of said longitudinal marginal portions being folded over its respective tensioning element to form a hem enclosing the same therewithin, a rigid metallic tubular rod located adjacent each shorter side of the sign body and overlying a face of the sheet and extending transversely to the tensioning elements to bridge the space therebetween, each of said rods having its opposite end portions flattened and overlying said hems spaced from said tensioning elements, and fastening means extending through said hems and through said flattened portions of the rods and securing the same together, the rods being otherwise free of the sheet between its opposite ends.

2,655,750
ALPHABETICAL AND NUMERICAL CHARACTER
Charles A. Dinlecker and Alois F. Steiert, Philadelphia, Pa.
Substituted for abandoned application Serial No. 405,118, August 1, 1941. This application November 30, 1949, Serial No. 130,212
3 Claims. (Cl. 40—136)



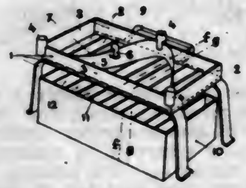
1. A character of the kind described comprising a blank of paper fashioned to a shape that when folded will result in a predetermined configuration and having three longitudinal parallel fold lines defining joined side walls which assume inclined positions and side flanges that project inwardly to function as attaching elements, each free end having an oblique slit extending from adjacent one side of the extreme outer end to the medial fold line and also having fold lines extending obliquely from the inner end of the slit to outer ends of the side fold lines and further having fold lines extending from the outer ends of said side fold lines and defining triangular areas and tabs which overlap and function as an inclined end wall and an additional attaching element, reinforcing member having the shape of the predetermined character and to which the character is secured by the attaching elements, and suspending tabs on said reinforcing member formed by partially cutting out areas from said reinforcing member.

2,655,751
TIE CLASP WITH INTERCHANGEABLE SLIDES
Naseeb B. Baroody, Jr., Florence, S. C.
Application August 10, 1951, Serial No. 241,277
1 Claim. (Cl. 41—10)



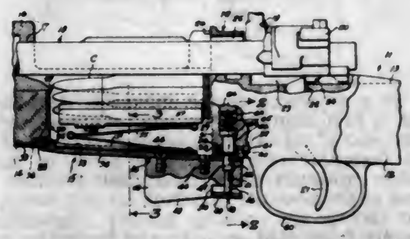
A composite necktie bar the appearance of which may be selectively changed according to the user's attire and discretion comprising a sheath, the obverse side of said sheath being transparent, said sheath having an ornate closure at one end and being open at the opposite end, and means whereby the over-all appearance of the complete bar may be varied and changed according to the will of the user, said means characterised by a slide fitting removably in said sheath, said slide having a given color and ornamental finish, being commensurate in size with the receptacle portion of said sheath and having closure means for the open end of the sheath which is symmetrical in shape and appearance with the closure at the opposite end of said sheath, said sheath being a substantially rigid plastic tube rectangular in cross-section and of a length to match the width of the wider apron of a necktie, said closure at said one end being a cap, said slide being likewise rectangular in cross-section and fitting snugly into said receptacle portion and the closure means thereon being in the form of a cap.

2,655,752
PROCESS AND APPARATUS FOR USE IN PREPARING COLOR SETS FOR SHADED TONES PRINTING
Richard Smejda, Vienna, Austria
Application January 23, 1951, Serial No. 207,280
In Austria February 6, 1950
4 Claims. (Cl. 41—19)



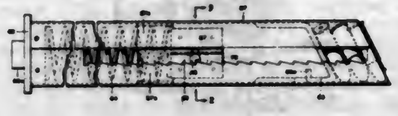
1. In a process for producing a set of colours for shaded colour tone printing, the steps which comprise separately introducing batches of different colours into a confined space so that each batch is substantially confined to a predetermined area and overlaps the adjacent batch or batches at various cross-sections of said space, transversely dividing the contents of said space into parallel sections so that contiguous portions of said batches are contained within each section in proportions predetermined by the location of the section, and separately mixing the contents of each section to produce a complementary series of colour tones.

2,655,753
MAGAZINE UNLOADING DEVICE FOR BOLT ACTION FIREARMS
Joseph Frank Salas, Detroit, Mich.
Application April 26, 1950, Serial No. 158,295
5 Claims. (Cl. 42—50)



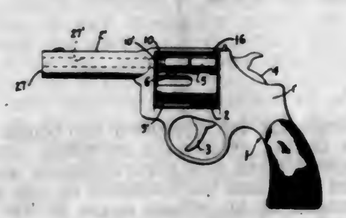
1. A quick-operating magazine unloading device for bolt action firearms having a detachable floor plate removably interlocked with a magazine opening by a reciprocable locking member mounted inside said firearm and releaseably engaging a portion of said floor plate, said device comprising a support including a handle secured to said floor plate and projecting therefrom, a movable unlocking member secured to and projecting outwardly from said support and movable into engagement with said locking member, and a finger-piece on said unlocking member adapted to be shifted by the operator, said support having an opening therein communicating with said locking member, and said unlocking member being selectively movable through said opening into unlocking engagement with said locking member.

2,655,754
BOX MAGAZINE FOR FIREARMS
Clyde Edward Brush, Oakland, Calif.
Original application May 14, 1948, Serial No. 27,063. Divided and this application June 8, 1950, Serial No. 166,930
7 Claims. (Cl. 42—50)



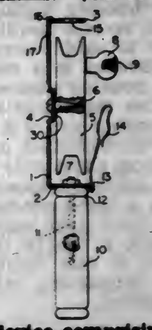
1. A box magazine for repeating firearms comprising a wall structure providing peripheral walls enclosing a storage space of cross sectional shape to contain live cartridges in side-by-side relation, said wall providing a discharge opening at one end of the magazine and a longitudinal slot; a composite follower having separable, mutually abutting parts, said parts being individually reciprocably movable within said storage space, the part nearer said discharge opening being a cartridge-engaging part for moving cartridges to the discharge opening when moved toward said opening by the other part of the follower; and a projection secured to said other part extending through said slot.

2,655,755
TOY CAP PISTOL AND CARTRIDGE
Talley W. Nichols, Pasadena, Tex.
Application March 31, 1950, Serial No. 153,020
2 Claims. (Cl. 42—58)



2. In a toy pistol, a frame having an opening therein, a cylinder rotatably mounted within the frame opening and provided with a succession of circumferentially spaced cartridge receiving pockets open at both ends of the cylinder, each pocket having at its rear end a guideway and at its forward end a shoulder and an open-ended guideway of lesser diameter than the diameter of the first mentioned guideway, a cartridge body adapted to fit co-axially in each pocket and comprised of a bullet-like body having an open axial bore therethrough and a reduced diameter nose to pilot in said open-ended reduced guideway and to provide a forwardly facing shoulder to seat against said forward shoulder of the pocket as a stop against forward thrust on said body, a cap retaining cup removably sleeved on the rear of said body and of a diameter to fit said first mentioned guideway of the cylinder pocket, said cup serving to locate a percussion cap against the rear face of the body and over the bore therethrough, and a trigger actuated hammer carried by the frame to strike said cup and thereby fire the cap and operatively connected with the cylinder to rotate the cylinder for successively bringing cylinder pockets into alignment with the path of hammer stroke.

2,655,756
FISHING TACKLE
Samuel N. Polis, Brooklyn, N. Y.
Application April 22, 1949, Serial No. 89,064
3 Claims. (Cl. 43—20)



1. A fishing device comprising a frame having an elongated side, and end portions shorter than the side, integral with, and at substantially right angles to said side, a reel rotatably mounted on said side between said end portions, a knob for rotating the reel, a handle detachably affixed to one end portion of the frame, the other end portion of the frame having eyelets, a part of the side adjacent the other end having an aperture, a wire extension having an end with a bend adapted to be passed through one of said eyelets and said aperture, and the end of the extension near the bend being secured to the frame, and means carried by said device to hold the reel from rotating, said extension having a loop at the other end substantially perpendicular to the longitudinal axis of the extension.

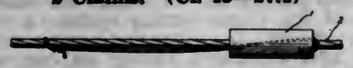
2,655,757
ARTIFICIAL LURE
Arley G. Boyce, Salem, Oreg.
Application November 15, 1948, Serial No. 60,002
2 Claims. (Cl. 43—26.2)



1. In a fishing apparatus including a fishing rod having batteries carried in the handle thereof, a reel having a pair of side walls and a spool carried by said fishing rod, electrical conductors carried by said reel, and an electrically controlled lure connected to said conductors and means connecting said conductors to said batteries, the improvement residing in an insulated housing secured to one side wall of said reel, a passage through the spool and said one side wall communicative with the interior of said housing, a

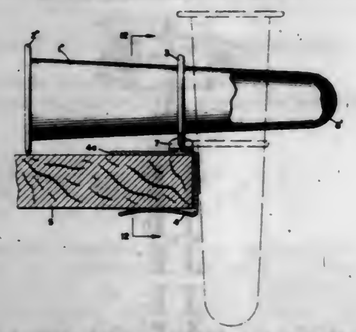
first metallic contact in said housing, a first insulated conductive wire extending through said passage and terminally secured to said first contact and adapted to be connected to a lure, a second contact in said housing, adjustable resilient means in said housing urging said contacts into engagement, a second conductive wire terminally connected to said second contact and adapted to be connected to a battery terminal, a second insulated housing secured to the opposing side wall of the reel, said spool having a lateral portion extending into said second housing and constituting a third contact, a fourth contact in said second housing, adjustable resilient means urging said fourth contact into engagement with said third contact, a third conductive wire terminally secured to said spool and adapted to be connected to a lure, a fourth conductive wire secured at one end to said fourth contact and switch means for connecting said fourth conductive wire to a battery.

2,655,758
TROTLINE OR THE LIKE
Pat Warren, Fort Worth, Tex.
Application January 7, 1949, Serial No. 69,695
2 Claims. (Cl. 43—27.4)



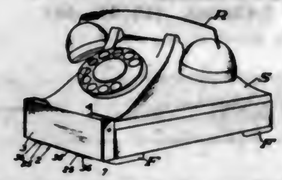
1. A trot line or the like comprising a primary line and at least one short line attached thereto and intermediate the ends thereof, a fish hook attached to the free end of said short line, and a slide having an opening therethrough slidably mounted on and receiving said primary line and said short line.

2,655,759
ANIMAL TRAP
Lothar C. Cronberger, Tulsa, Okla.
Application June 26, 1950, Serial No. 170,414
16 Claims. (Cl. 43—60)



7. An animal trap comprising a tubular animal receptacle normally supported in a substantially horizontal position, a substantially annular holder for suspending said receptacle in a substantially vertical position, said holder loosely surrounding said receptacle and permitting a limited longitudinal sliding motion thereof, means for adapting said holder to form a counterweight for balancing said receptacle in said substantially horizontal position, and a pivotal support for said holder arranged between the center of gravity of said receptacle and the center of gravity of said holder and providing a common center of rotation for said receptacle and holder effective upon upsetting of the equilibrium thereof.

2,655,760
HOLDER FOR CARDS OR MEMORANDUM PADS
Philip Dorenbaum, Providence, R. I.
Application February 7, 1950, Serial No. 142,861
5 Claims. (Cl. 45—.5)



1. A holder or receptacle for cards or a writing pad comprising a rectangular box-like casing having a bottom wall and upstanding front, rear and end walls, a hinged door at the front of the casing adapted to swing down into horizontal position thereon, a plate projecting rearwardly from the bottom wall of the casing in alinement therewith for insertion under the base of a telephone instrument, said plate of a width to adapt its lateral edges for engagement with grooves in the feet thereon, and resilient means on the plate having arcuate portions engageable around circular portions of said feet.

2,655,761
CONNECTOR FOR TOY CONSTRUCTION MEMBERS
Dale W. Adams, St. Francis, Kans.
Application June 17, 1952, Serial No. 293,913
3 Claims. (Cl. 46—39)



1. A connector for elongated toy construction members having registrable openings, comprising a resilient plate, said plate including an elongated, flat body and an extension on one end of and arranged at an obtuse angle to the plane of said body; a handle secured to the plate adjacent the other end of the body; a laterally open clamp secured to said body intermediate the ends thereof and proportioned to secure the body face to face with a first toy construction member, said clamp being so arranged upon said body as to align the same longitudinally with said first member in secured relation; and a pin projecting outwardly from the face of said extension on the obtuse angle side in spaced relation to the clamp and extendable through registering apertures of a second toy construction member and said first member to connect the same, the pin forming a pivot about which said plate is swingable into clamping engagement with the first member and said angularly related extension and body being adapted to urge the respective members toward one another, responsive to pivotal movement of said plate into clamping engagement with the first member.

2,655,762
PUPPET DOLL
Dolores Burke, Jackson Heights, N. Y.
Application November 26, 1951, Serial No. 258,129
4 Claims. (Cl. 46—116)

2. A toy comprising a view-screening element arranged to provide a wall-member having an aperture therein, said aperture being located entirely within the confines of the wall-member and having a continuous margin spaced inwardly at all points from the peripheral margins of the wall-member, and a doll-like figure simulative of a living creature, said doll-like figure comprising a head and a flexible hollow torso portion with flexible hollow arm and leg members, said torso being provided with a rearwardly presented opening lying wholly within the confines of the torso, said torso being joined to one face of the wall-member with the entire doll-like figure exposed to view upon the face of the wall-member to give the appearance of a living creature completely in front of the view-screening element,



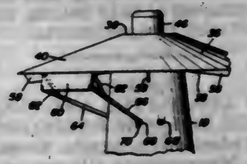
the opening and aperture being in substantial registration to provide for access to the interior of the body member from a substantially concealed position directly behind the view-screening element, whereby to permit the user to insert his fingers and at least a portion of his hand through the aperture and opening into the interior of the body member and place a separate finger in each of all of the arm and leg members at the same time for manipulating all of said arm and leg members while the user's wrist and arm are substantially concealed behind the view-screening element and thereby imparting to the doll-like figure an appearance of independent animation.

2,655,763
FORESTRY TOOL FOR GIRDLING TREES
Andrew F. Grissett, Hattiesburg, Miss.
Application August 30, 1951, Serial No. 244,419
6 Claims. (Cl. 47—1)



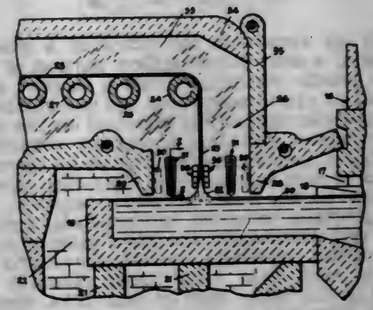
1. A forestry tool comprising a substantially U-shaped frame, cutter means supported on one end of the frame, a guide supported on the other end of the frame, a support slidably carried by the guide and selectively movable toward and away from the cutter means, a second cutter means carried by the support, means carried by and movable with the support and engaging the guide for adjusting the support relative to the first named cutter means, each of said cutter means comprising a pair of spaced parallel cutters, and a scraper blade attached to the support and having a sharp edge extending between the cutters of the second cutter means.

2,655,764
DEVICE FOR HEATING ORCHARDS
Percy G. Watkins, Oak View, Calif.
Application January 4, 1950, Serial No. 136,663
3 Claims. (Cl. 47—2)



1. A device for heating orchards comprising a hollow stack with a cool air inlet at the bottom and a heated air outlet at the top, a heater intermediate the top and bottom of said stack, means disposed at the top of said stack for directing the flow of heated air from the heated air outlet, including a substantially concavo convex cover movably disposed on said stack and having edges which are laterally spaced from the stack, and baffles carried by said stack and located adjacent to the edges of said cover to deflect the heated air passing beneath said cover from said heated air outlet.

2,655,765
METHOD AND APPARATUS FOR FORMING SHEET GLASS
Emmett L. Walters, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application November 6, 1947, Serial No. 784,409
2 Claims. (Cl. 49—17)



1. In sheet glass drawing apparatus including a working receptacle for a bath of molten glass and means for drawing a sheet from said bath, heat exchangers arranged at opposite sides of said sheet and in spaced relation thereto and other heat exchangers arranged along the margins of the sheet and between said first-mentioned heat exchangers and said sheet, each of said heat exchangers comprising a plurality of compartments arranged one above the other, means for introducing a temperature control medium into each of said compartments to pro-

vide heat exchange between each of said compartments and the glass sheet, and flow control means for said medium for independently controlling the amount of heat exchange between each compartment and the glass sheet.

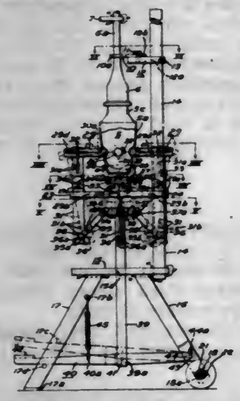
2. A method of producing sheet glass comprising, drawing a continuous sheet of glass from a mass of molten glass, positively radiantly cooling the opposite faces of said sheet and the atmosphere surrounding the same along one series of transverse hollow compartments, simultaneously positively radiantly cooling the edges of said sheet and the atmosphere surrounding the same along another series of transverse hollow compartments by introducing a cooling medium into both series of said compartments, and exerting a different degree of radiant cooling in adjacent compartments to compensate for varying atmospheric conditions surrounding said sheet by controlling the removal of said cooling medium from both series of said compartments.

2,655,766

DIMPLING APPARATUS AND PROCEDURE FOR HOLLOW PARISONS

Joseph R. Haden, Monongalia County, W. Va., assignor to Morgantown Glassware Guild, Inc., Morgantown, W. Va., a corporation of West Virginia

Application November 7, 1951, Serial No. 255,255
5 Claims. (Cl. 49—22)



1. In an apparatus for dimpling a side wall portion of a semi-plastic hollow parison of vitreous or plastic material having a support standard and an upper mold table, the combination of, a rod member operatively mounted on the standard to extend upwardly therefrom towards the mold table, a connector secured on an upper end portion of said rod member, links each pivotally mounted at one end on said connector, lever arms pivotally mounted intermediate their opposite end portions on the mold table to extend substantially vertically thereof, lower end portions of said lever arms being pivotally connected to the other ends of said links, dimpling fingers adjustably secured on upper end portions of said lever arms to extend transversely-inwardly therefrom, a base mold mounted on the mold table to receive a base portion of a hollow parison therein, each of said dimpling fingers having a semi-spherical tip to be moved into a side wall portion of the parison when it is positioned on said base mold, said dimpling fingers being secured on said lever arms to move forwardly in an arcuate path towards said base mold into the side wall portion of the parison supported thereby to a final dimpling position with respect to the side wall portion of the parison, and means for actuating said rod member and said dimpling fingers through said links and lever arms to move said tip into and out of the side wall portion of the parison.

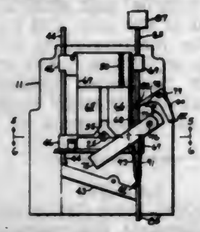
2. In making an improved hollow dimpled article of vitreous or plastic material by utilizing a pressure finger having a semi-spherical tipped end and wherein the material has the characteristic of becoming plastic under heat application thereto, a method of the character shown and described which comprises, providing a hollow parison of the material in a hot semi-plastic condition, supporting the parison with its side wall under a positive shape-retaining tension and with its base wall within a base mold while forming a symmetrical and uniformly depressed area of limited extent in the side wall of the hot parison by: moving the tipped end of the pressure finger transversely-inwardly along an arc towards the longitudinal axis of the parison and into point contact with the side wall thereof, advancing the tipped end inwardly along such arc from the contact point and expanding the contact point into a relatively small depressed and substantially symmetrical contacted area about the tipped end, terminating such inward advance with the longitudinal axis of the tipped end at right angles to the longitudinal axis of the parison, and withdrawing the tipped end backwardly along such arc and out of contact with the side wall without deforming the relatively small and substantially symmetrically depressed area therein.

2,655,767

AMPOULE CUTTER

Edward F. Wenner, Columbus, Ohio, assignor to H. R. Stallbohm, Lima, Ohio

Application April 20, 1950, Serial No. 157,017
10 Claims. (Cl. 49—48)



1. An ampoule cutter comprising a stationary supporting member for the ampoule; an engaging member adapted to hold the ampoule on said supporting member, with the neck of the ampoule held stationary and projecting over the edge of the supporting member, and with the neck raised at an angle which provides for maintaining the liquid level in the ampoule below the point at which the neck is cut off; a cutting element for scoring the neck of the ampoule; and a hammer including means for swinging the hammer with a snap action against the stationary neck for snapping off the neck of the ampoule after the neck has been scored.

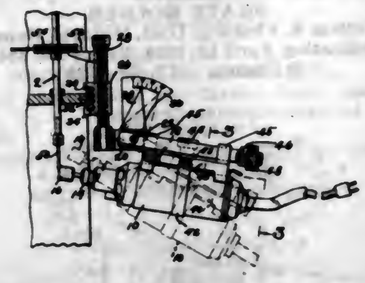
2,655,768

APPARATUS FOR GRINDING THE NEEDLES OF DIE DRILLING MACHINES

Ernest J. Bartell, Rome, N. Y.

Application October 4, 1950, Serial No. 188,346
5 Claims. (Cl. 51—55)

1. In combination, a die-drilling machine comprising a row of rotatable die-drilling needles; an electric motor; a needle-grinding member mounted on the armature shaft of said motor; a block carried by the drilling machine and movable along the row of needles to bring said grinding member selectively into juxtaposition to any needle of the row; a pintle extending lengthwise



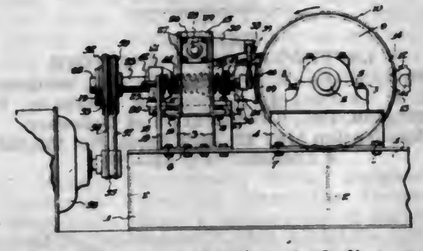
of the armature shaft and on which said motor is laterally oscillatably mounted, the inner end of said pintle being attached to said block for adjustment about an axis transverse of the motor for adjusting the angle between the active face of the grinding member and a needle of said row which is to be ground.

2,655,769

LAPPING MACHINE

Thomas G. Lewis, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

Application May 22, 1950, Serial No. 163,561
17 Claims. (Cl. 51—119)



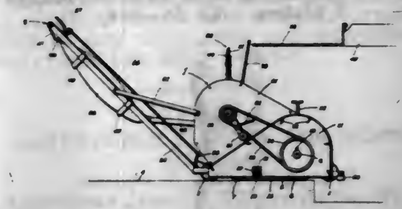
1. In a lapping mechanism including means for rotatably supporting and drivingly rotating a cylindrical work piece, a base structure, a lapping head having a concave surface to conform substantially to the external surface of the cylindrical work to be surfaced, supporting means for maintaining the lapping head in parallel relation and substantially in the same horizontal plane with the axis of the work piece, said supporting means comprising upright supporting members mounted in spaced relation on the base structure, a shaft having its ends rotatably journaled in said upright members and positioned substantially in spaced, parallel relation with the lapping head, hanger arms supported at one end on said shaft with the other ends free, self-aligning supporting means depending from the free ends of said hanger arms and engaging the outer ends of the lapping head for supporting the lapping head parallel with the axis of the work, eccentrically operated means also mounted on the base structure for oscillating the lapping head, and auxiliary means positioned in spaced parallel relation with the oscillating means for applying force against the lapping head in the direction of the axis of the work piece.

2,655,770

BOWLING ALLEY RESURFACING MACHINE

Giovanni Parovel, Sacramento, Calif.

Application March 19, 1951, Serial No. 216,390
3 Claims. (Cl. 51—174)



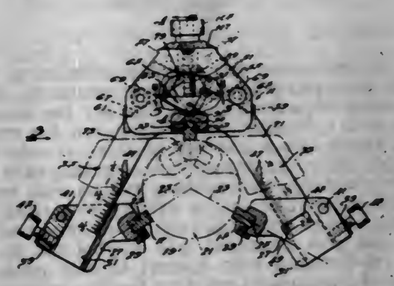
1. In a bowling alley resurfacing machine, a wheel supported frame which includes side members arching up between their ends to provide laterally facing openings and side plates covering the openings; a sanding unit disposed under and between said members clear of the same and including spaced end rollers, an endless sanding belt trained about and running between the rollers, sub-frames extending alongside the rollers and disposed relative to the rollers to enable the belt to be slid onto and removed from the rollers by lateral movement of said belt, and means supporting the rollers from the sub-frames; means to drive one roller, blocks projecting laterally out from the sub-frames, vertical guide elements on the inner faces of the side plates between which the blocks are vertically slidable, means between the side plates and blocks and releasable from the latter to yieldably maintain the blocks in position in the guide elements, and means mounting one side plate on the adjacent side member for removal of said plate by movement thereof in a laterally outward direction.

2,655,771

HONING TOOL FOR EXTERNAL CYLINDRICAL SURFACES

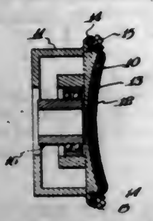
John E. Kline, Grosse Pointe Farms, Mich., assignor to Micromatic Hone Corporation, Detroit, Mich., a corporation of Michigan

Application February 6, 1950, Serial No. 142,636
11 Claims. (Cl. 51—184.1)



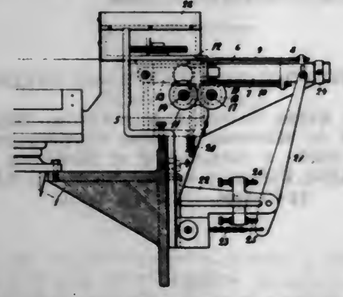
1. A tool for dressing an external cylindrical surface of a workpiece including, in combination, a body, adjustable arms in said body crossing each other, a shiftable element carried by said body and cooperating with said arms at the point of crossing for simultaneously adjusting said arms longitudinally when said element is shifted, and a pair of rollers in said body each engaging the top of one arm and the bottom of the other arm at opposite sides of the point of crossing.

2,655,772
BACKING FOR LAPS
Thomas G. Lewis, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application May 22, 1950, Serial No. 163,560
3 Claims. (Cl. 51—264)



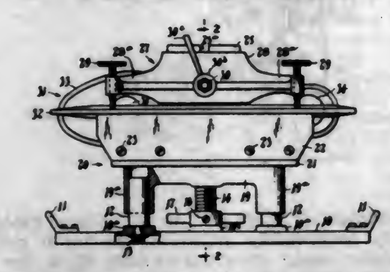
1. In a surface finishing tool, a rigid support arcuately shaped and recessed, and adapted to conform to a cylindrical work surface, a backing support secured thereto comprising a flexible, fibrous bag, and a mass of plasticized bitumen interposed in said recess between the backing material and the rigid support, and having a cold flow plasticity tending to conform to the work surface at temperatures ranging from about 70° F. to 100° F. when moved relative to said work.

2,655,773
APPARATUS FOR FEEDING CYLINDRICAL WORKPIECES INTO CENTERLESS-GRINDING MACHINES
Erland Wetterborg, Halmstad, Sweden
Application November 15, 1951, Serial No. 256,549
In Sweden November 21, 1950
2 Claims. (Cl. 51—215)



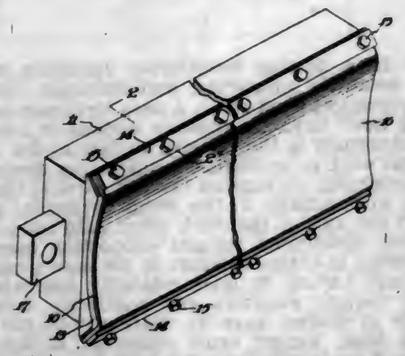
1. In apparatus for feeding cylindrical work pieces into centerless-grinding machines, which apparatus includes a supporting bar for the work piece and a feeding rod, a push rod for moving work pieces into a position in front of said feeding rod, mounting means for mounting said push rod for parallel reciprocating motion with respect to said supporting bar, a driving rod, rigid connecting means engaging said driving rod and said push rod and mounting said driving rod in parallel relationship with respect to said push rod, a pair of continually rotating feeding rollers, said driving rod having a portion extending between said feeding rollers to be frictionally engaged and driven thereby, means for mounting one of said rollers in movable frictional relationship toward the other of said rollers, means to relieve the frictional engagement of said rollers with said driving rod by moving said movably mounted roller away from said driving rod when said driving rod has reached its forward end position and a counteracting member acting on said driving rod to return it to its rear end position on release of said frictional engagement, whereby said push rod through said rigid connecting means is moved conjointly with said driving rod for the moving of work pieces.

2,655,774
SKATE HOLDER
William E. Fleming, Galt, Ontario, Canada
Application April 12, 1951, Serial No. 220,567
8 Claims. (Cl. 51—228)



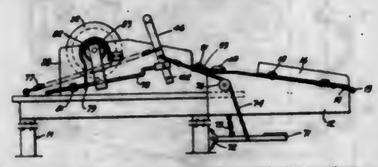
1. A skate holder comprising a base, a pair of substantially vertical posts on the base, a standard slidable on the posts, and screw means rotatable in the base and the standard for adjusting the position of the standard relative to the base, the standard having a bearing surface, a yoke removably engageable with the standard, the yoke having clamping screws adapted to bear adjustably on a skate to secure the skate firmly between the clamping screws and the bearing surface of the standard, and the standard and the yoke having means independent of the clamping screws for removably securing the yoke to the standard.

2,655,775
LAPPING METHOD AND TOOL
Thomas G. Lewis, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application May 22, 1950, Serial No. 163,562
4 Claims. (Cl. 51—281)



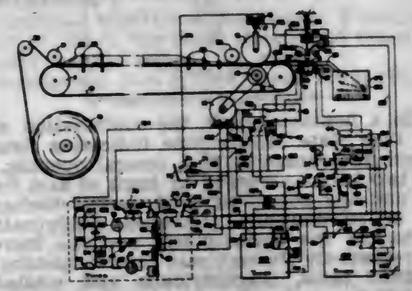
1. The method of lapping a metal article comprising applying to said article a particulate abrasive suspended in an oil vehicle, forcing said abrasive against said article with a material having a Rockwell C hardness of 60 or higher at a pressure below about 18 lbs./sq. in. while maintaining relative random movement between said article and said material, and progressively decreasing the size of said suspended abrasive from coarse to fine as the surface finish of said article is improved, then forcing successively smaller sizes of finer abrasive suspended in oil against said article with a mass of polytetrafluoroethylene at a pressure below about 18 lbs./sq. in. while maintaining relative random movement between said article and said mass of polytetrafluoroethylene to produce a high quality final finish.

2,655,776
PROCESS FOR HEAT SEALING
Clarence G. Bennett, San Mateo, Calif., assignor to C. G. B. Company, a corporation of California
Application February 28, 1950, Serial No. 146,889
1 Claim. (Cl. 53—3)



A method of applying a heat-sealing tape about an article comprising pulling a length of tape from a roll of heat-sealing tape, said length being at least sufficient to band the article, heating a portion only of said tape, said heated portion being immediately adjacent a position where it is ultimately desired to sever the tape and remote from the terminal end of the tape, to condition said portion only of said tape for sealing, placing an article on the unheated terminal end of said tape and rolling the article along said tape length to apply the tape snugly to the article until the terminal end overlies the portion of the tape which has been conditioned for sealing, pressing the terminal end of the tape onto the portion of the tape which has been conditioned for sealing and immediately severing said portion of tape from the remainder of the roll and removing the banded article from the heated zone.

2,655,777
CONTROL APPARATUS
Jerry Hagen, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application September 17, 1949, Serial No. 116,396
14 Claims. (Cl. 53—26)



1. Control apparatus comprising a pair of circuit controlling pickup devices, a pair of amplifiers arranged to be individually controlled by each of said devices, a load relay, a plurality of relays controlled by said amplifiers, a plurality of time delay switches, a first electrical circuit for energizing said load relay including one of said plurality of relays and a plurality of said time delay switches, a second electrical circuit for controlling said load relay including another of said plurality of relays and another of said time delay switches, circuit means for controlling one of said time delay switches including said one relay, another electrical circuit including the other of said plurality of relays for controlling one of the time delay switches of said first electrical circuit, and a fourth circuit controlled by said other relay and controlling another of said time delay switches.

2,655,778
ADJUSTABLE STIRRUP FOR RIDING SADDLES
Herbert J. Elle, Chicago, Ill.
Application June 13, 1952, Serial No. 293,287
7 Claims. (Cl. 54—44)



3. The combination with a saddle; of a strap arched crosswise through the saddle and terminating with stirrups normally at even height, the strap being slidable relative to the saddle to locate either stirrup at a height lower than the normal one, a medial abutment carried by the saddle and through which the strap is slidable and stop devices carried by the strap on both sides of the abutment and comprising clips which form limits in respect to the abutment when the strap is slid as stated.

2,655,779
MARINE GROWTH HARVESTER
Leslie T. Sanders, Palatka, Fla.
Application May 10, 1949, Serial No. 92,453
4 Claims. (Cl. 56—9)

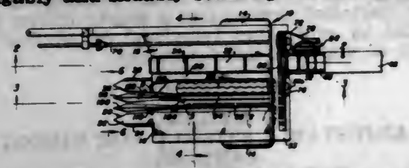


1. A marine growth harvester comprising a boat having a water line adapted to float on a body of water, a beam secured on each side of the boat and extending forwardly thereof with the forward end located below the water line, a forwardly extending scoop positioned with its bottom below the water line pivotally mounted for movement about a horizontal axis at its rear end to the forward ends of the beams, a conveyor mounted on the boat and extending forwardly and downwardly to the rear end of the scoop below the water line, and power means operatively connected to the conveyor for operating the conveyor whereby water hyacinths collected by the scoop may be raised from the water.

2,655,780
COTTON STRIPPER
Edd Dugan, Davidson, Okla.
Application July 18, 1951, Serial No. 237,339
12 Claims. (Cl. 56—33)

1. In a cotton row stripper including a wheeled frame, a pair of spaced walls forming part of the frame, a pair of ground hugging gatherers on

said side walls and a stripping roll mounted between said side walls, means operatively attached to the stripper for lifting and guiding cotton toward the stripping roll comprising an elongated arm having forward and rear portions, means swingably and slidably securing the rear portion



of the arm to the frame, said arm being supported alongside of and beneath said roll, a finger on one forward portion of said arm inclining upwardly and rearwardly toward said roll, and supporting means attached to the frame and supporting the forward portion of said arm.

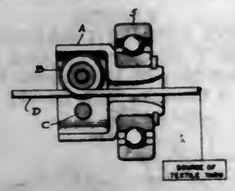
2,655,781

APPARATUS FOR IMPARTING FALSE TWIST TO YARN

Georges Heberlein, deceased, late of Wattwil, Switzerland, by Georg Heberlein, heir and administrator, Wattwil, Switzerland, Georg Heberlein, Ernst Weiss, and Karl Risch, Wattwil, Switzerland, and Theodor Odinga, deceased, late of Wattwil, Switzerland, by Heinrich Odinga, heir and administrator, Zurich, Switzerland, assignors to Heberlein Patent Corporation, New York, N. Y., a corporation of New York

Original application September 12, 1944, Serial No. 553,694, now Patent No. 2,463,618, dated March 8, 1949. Divided and this application February 19, 1948, Serial No. 9,484. In Switzerland October 18, 1943

5 Claims. (Cl. 57—77.3)



1. An apparatus for imparting a false twist to textile yarn which comprises, in combination, a source of supply of twisted textile yarn, a rapidly rotatable tube having its axis corresponding to the path of straight line travel of the yarn passing therethrough between two fixed points outside of said tube, and guide roller means mounted in said tube, said roller means rotating on an axis perpendicular to that of said tube and eccentric with respect to said line of travel, and said roller means being disposed so that the yarn leaves it at a point substantially along the path of said axis of said tube, and means to rotate said tube rapidly to high twist the textile yarn to at least 500 turns per meter and thereafter detwist the highly twisted yarn.

2,655,782

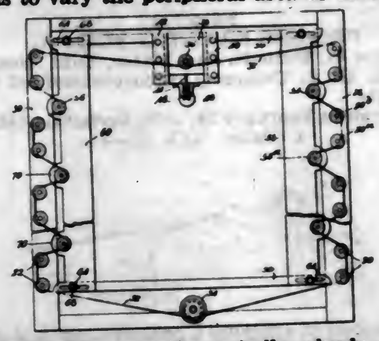
CHANGE-OVER DRIVE FOR SPINNING AND TWISTING FRAMES

Roger W. Cutler, New York, N. Y.

Application March 4, 1950, Serial No. 147,664

6 Claims. (Cl. 57—105)

6. In a textile machine of the class described, the combination with spaced-apart sets of spindles and supporting rail means, of spindle driving mechanism comprising an endless driven belt arranged to move into contact with and drive the spindles, guide pulley means mounted on the supporting rail means between sets of spindles for guiding the driven belt along a reversely curved path of movement, pulley holder means for the guide pulley means adjustable in the rail means to vary the peripheral area of contact of



the belt with respective spindle whorls, and a tension mechanism cooperating with the guide pulley means to exert a substantially uniform tension at the areas of contact of the belts with the whorls, each pulley of the said guide pulley means being located between the sets of spindles in offset relation thereto and in a position so chosen as to be nearer to the first spindle contacted by the endless driven belt in any given set.

2,655,783

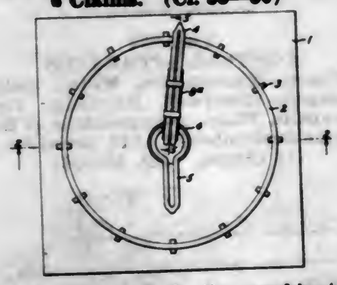
LUMINOUS CLOCK WITH NEON-ILLUMINATION OF DIAL AND HANDS

Walter Uschkamp, Frankfurt am Main Hochst, Germany

Application September 19, 1950, Serial No. 185,629

In Germany September 26, 1949

6 Claims. (Cl. 58—50)



1. In a luminous clock, the combination of a fixed face plate having time indicating figures thereon and formed with a central opening, at least two hands arranged in front of said fixed plate and each consisting of an electric discharge tube of substantially U-shaped configuration and having the opposite end portions thereof bent rearwardly through said central opening of the fixed plate, concentrically and rotatably mounted supporting means for said hands disposed behind said fixed plate and having the end portions of the related electric discharge tubes fixedly secured thereto, said supporting means being adapted to be coupled to a clockwork, electrical conducting slip rings on said supporting means, and electric leads extending from said end portions of each electric discharge tube and electrically connected to the slip rings on the associated supporting means.

2,655,784

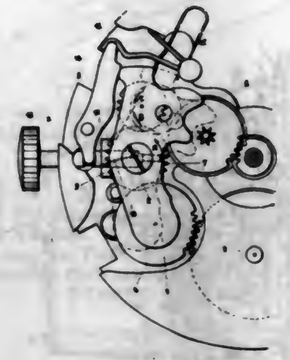
WINDING AND SETTING MECHANISM FOR WATCH OR CLOCK MOVEMENTS

Georges Ducommun, Grenchen, Switzerland, assignor to Ebauches S. A., Grenchen, Switzerland

Application October 9, 1951, Serial No. 250,479

In Switzerland March 7, 1951

4 Claims. (Cl. 58—69)



1. In a winding and setting mechanism for a timepiece, a plate, a winding stem rotatably and reciprocally mounted on the plate, a winding pinion in contact with and rotatable by the winding stem, a rocking-bar pivotably mounted on the plate, a transmission wheel rotatably mounted on the rocking-bar and meshing with the winding pinion, a minute setting wheel rotatably mounted on the rocking-bar and permanently meshing with the transmission wheel, a winding wheel rotatably mounted on the rocking-bar and permanently meshing with the transmission wheel, and a hand-actuating minute wheel rotatably supported for engagement with the minute setting wheel, the improvement wherein the contact surfaces between the winding stem and the winding pinion are shaped permitting relative movement therebetween as the stem is reciprocated.

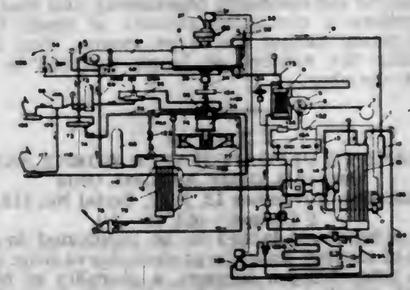
2,655,785

HYDRAULIC PUMP AND MOTOR TRANSMISSION AND GAS PRESSURE PRIME MOVER THEREFOR

Constantinos H. Vlachos, Vancouver, Wash., and Earl M. Ward, Portland, Oreg.; said Ward assignor to said Vlachos

Application June 9, 1949, Serial No. 98,102

6 Claims. (Cl. 60—19)



5. In a power system having a closed gas pressure circuit and a closed hydraulic circuit, a pressure converter comprising a first cylinder, a piston reciprocable therein, inlet and exhaust valves at opposite ends of said first cylinder and communicably connected to said gas pressure circuit, means for actuating said valves in timed relation alternately at opposite ends of the cylinder, means for regulating the degree of opening of the valves and power developed by the piston, a second cylinder having inlet and exhaust valves communicably connected to said hydraulic circuit, a second piston reciprocable in said second cylinder and connected to said first piston, and a hydraulic motor operatively connected to said hydraulic circuit and to the means for actuating the valves in said first cylinder.

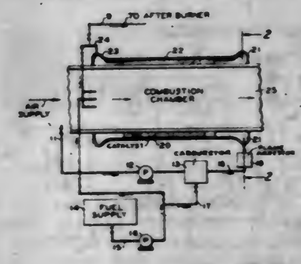
2,655,786

METHOD OF OPERATING JET ENGINES WITH FUEL REFORMING

Donald E. Carr, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application September 18, 1950, Serial No. 185,417

10 Claims. (Cl. 60—35.4)



1. An improved method for operating a jet engine which comprises in combination the steps of passing a hydrocarbon fuel portion together with air in an amount less than that theoretically required for complete combustion of that fuel portion through a reformer zone in indirect heat exchange with hot gases passing through said jet engine and under such conditions of temperature as to reform said hydrocarbon fuel to form a fuel mixture consisting essentially of carbon monoxide and hydrogen; introducing an unreformed fuel portion into the forward portion of a primary combustion zone of said jet engine; introducing said reformed fuel mixture into a gas stream within a combustion zone in said jet engine; burning said unreformed fuel portion and said fuel mixture in the presence of air in said jet engine so as to obtain a sufficient temperature rise through said jet engine to provide motivating thrust to said jet engine by rearward exhaust of hot gases therefrom.

2,655,787

GAS TURBINE COMBUSTION CHAMBER WITH VARIABLE AREA PRIMARY AIR INLET

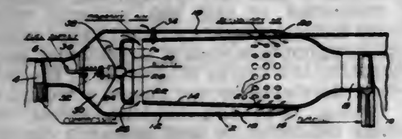
Edmund D. Brown, Manchester, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application November 21, 1949, Serial No. 128,657

7 Claims. (Cl. 60—39.23)

6. A combustion chamber construction including a duct, a flame tube within the duct, and movable closure means at the upstream end of the tube for varying the flow area for air from the duct into the tube in combination with means

responsive to fuel flow for adjusting said closure means, and means responsive to the pressure dif-



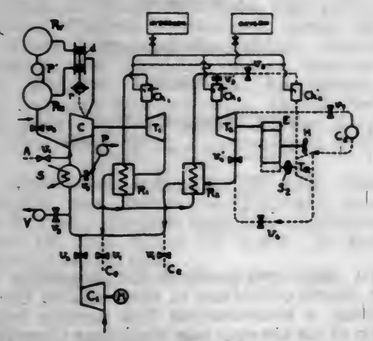
ferential between the duct and the tube for adjusting said closure means.

2,655,788

TURBINE GAS ENGINE ADAPTED TO OPERATE WITH OR WITHOUT ATMOSPHERIC AIR CHIEFLY FOR THE PROPULSION OF WARSHIPS

Marcel H. L. Sédille, Paris, France, assignor to Societe Bateau (Société Anonyme), Paris, France, a company of France, and René Anxionnaz, Paris, France, jointly

Application September 10, 1947, Serial No. 773,244
In France October 7, 1946
4 Claims. (Cl. 60—39.33)



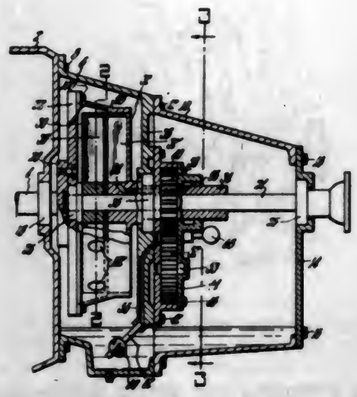
1. In a power plant of the kind described, the combination of a gas circuit including at least one main compressor, at least one combustion chamber and at least one gas turbine and being adapted to operate selectively in open circuit fed by hydrocarbon fuel and atmospheric air and in substantially closed circuit fed by products adapted to evolve heat by a chemical exothermic reaction; duct means for connecting the exhaust side of said gas turbine to the suction side of said main compressor, first valve means on the exhaust side of said gas turbine for directing the exhaust of said gas turbine selectively to the atmosphere and into said duct means, an auxiliary compressor connected to said duct means for delivering into same air under pressure, a motor linked to said auxiliary compressor and adapted to be actuated independently of said power plant for driving said auxiliary compressor, second valve means on the suction side of said main compressor for selectively connecting the inlet of said main compressor to said duct means and to the atmosphere, cooling means on said duct means for refrigerating the turbine exhaust, pump means connected to said duct means for eliminating condensation products and gas in excess from said duct means, a storage tank connected to the suction side of said main compressor and adapted to supply an extra amount of gas into said circuit, and third valve means between said storage tank and the suction side of said main compressor for selectively opening and cutting off extra supply of gas.

2,655,789

ROTARY, TURBINE TYPE HYDRAULIC COUPLING

Alexander MacKenzie, Jr., Springfield, Mass., assignor of one-half to Louis O. Setterlund, Springfield, Mass.

Application May 4, 1950, Serial No. 160,027
1 Claim. (Cl. 60—54)



Driving mechanism comprising in combination, a closed housing having opposite end walls and an intermediate wall therebetween and a sump in the lower area thereof, aligned driving and driven shafts journalled in bearings in opposite end walls of said housing, a bladed driver fixed to said driving shaft and having a hub journalled in the intermediate wall of said housing, said driven shaft being journalled in the hub of said driver, a driven bladed member fixed to said driven shaft and positioned adjacent said driver to form a work chamber therebetween, a pump casing provided on the intermediate wall of said housing around the hub of said driver and having inlet and discharge means, a primary gear in said pump casing fixed on the hub of said driver and driven thereby, a secondary gear journalled in said pump casing and meshing with said primary gear, the hub of said driver being provided with a liquid discharge passageway extending from the discharge means of said pump casing through said driver to said work chamber, the intermediate wall of said housing being provided with a liquid inlet passageway extending from an inlet means in the sump in said housing to the inlet means of said pump casing, and independently operable by-pass valve means connected to the discharge passageway and operable to relieve a controlled amount of liquid from said pump casing discharge means, thus controlling the amount of liquid supplied to the work chamber.

2,655,790

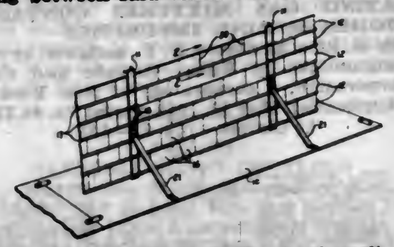
MEANS TO DEPOSIT WATER-BORNE SAND

James R. Daley, Amherst, Ohio

Application November 12, 1952, Serial No. 319,974
5 Claims. (Cl. 61—3)

1. A barrier adapted to be positioned in the path of moving water to protect shores from erosion, comprising a support, a plurality of horizontal, parallel vanes of flexible material mounted on said support, said vanes having fixed bottom edges, and top edges free to move in either

direction by flexing of the vanes, whereby water passing between said vanes will be directed up-



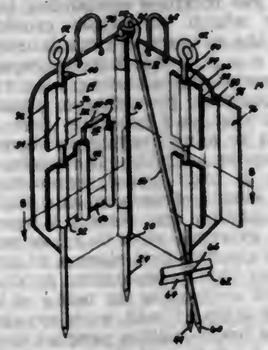
wardly and slowed in velocity to deposit sand adjacent the base of said vanes.

2,655,791

PORTABLE IRRIGATION DAM

Wilson D. Sell, Clyde Park, Mont., assignor of one-half to Paul Warfel, Clyde Park, Mont.

Application December 4, 1951, Serial No. 259,818
7 Claims. (Cl. 61—29)



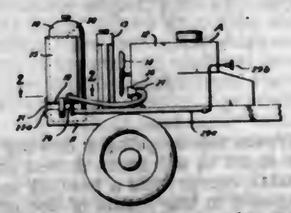
1. A portable dam for irrigation ditches comprising a pair of complemental panels hingedly connected along their vertical axes, means carried by each panel for anchoring it in a vertical position and for rigidifying it in said position and a brace member swivelly connected to the panels and adapted to be inserted in the ground at a point remote from the positioned panels, and means transversely mounted on said brace member for limiting the penetration thereof in the ground.

2,655,792

HEATING APPARATUS FOR FUEL TANKS

Victor E. Lagrange, Lake Charles, La.

Application November 30, 1950, Serial No. 198,348
4 Claims. (Cl. 62—1)



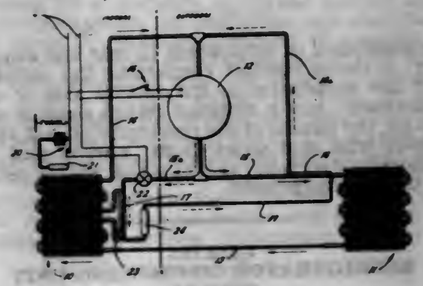
1. The combination with a motor vehicle having a fuel tank containing liquefied petroleum gas, of a heating apparatus including, a shield encircling a portion of the fuel tank in spaced relationship thereto whereby an air circulating passage is formed between the exterior of the tank and said shield, and an air conduit having one end connected to the passage and its opposite end open and disposed adjacent the inner portion of the fan of the vehicle engine, whereby the air passing through the radiator of the engine and heated thereby is directed through the conduit and circulated through the passage.

2,655,793

AIR CONDITIONING SYSTEM

Malcolm G. Shoemaker, Doylestown, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application February 10, 1951, Serial No. 210,322
6 Claims. (Cl. 62—3)



1. In air conditioning equipment, a main refrigeration system including compressor, condenser, restrictor and evaporator elements so connected in series flow circuit that condensation of refrigerant occurs in said condenser element, and evaporation of refrigerant occurs in said evaporator element with consequent cooling of the circulating air, and apparatus for reducing the total air-cooling capacity of said evaporator element while yet maintaining a portion of the evaporator element at a temperature sufficiently low to result in substantial condensation of moisture present in the circulating air, said apparatus comprising: an auxiliary refrigeration system including condenser, restrictor and evaporator portions connected in series circuit with said compressor element, said condenser portion being disposed in heat exchange relation with a portion of said evaporator element at a region intermediate the entrance to and the exit from said element, and said evaporator portion being disposed in heat exchange relation with a portion of the high pressure side of said main system in which gaseous refrigerant is normally present; and means effective to cause a portion of the gaseous refrigerant derived from said compressor element to flow through said auxiliary system.

2,655,794

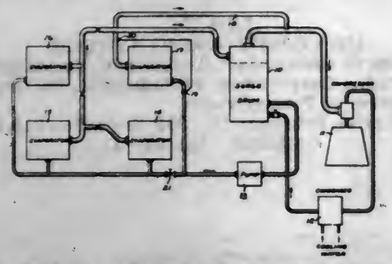
OIL REMOVAL SYSTEM FOR REFRIGERATION APPARATUS

Alonzo W. Ruff, York, Pa., assignor to V. C. Patterson & Associates, Inc., York, Pa., a corporation of Pennsylvania

Application December 9, 1952, Serial No. 324,947
4 Claims. (Cl. 62—3)

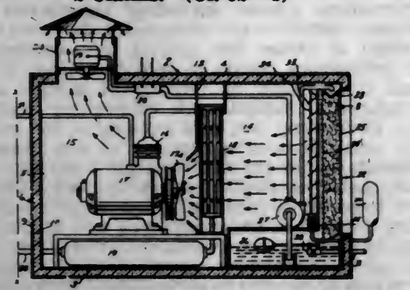
1. A refrigeration system comprising in combination: a surge drum; compressor means; condenser means; conduit means connecting said surge drum, compressor and condenser for furnishing liquid refrigerant to the lower portion of said drum and removing gaseous refrigerant

from the upper portion of said drum; a plurality of evaporators; a pump connected to supply liquid refrigerant from said drum to said evaporators; means for establishing a pressure in the refrigerant supply line to one of said evaporators higher than the pressure in the supply line to the other evaporators; means for controlling



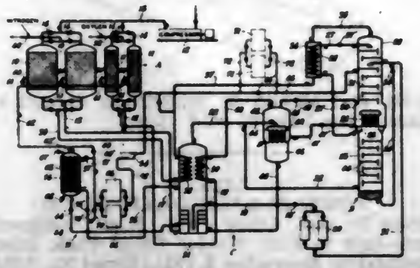
the admission of refrigerant to said one evaporator; a closed conduit connecting the outlet of said one evaporator to the suction side of said compressor; and a common return conduit connecting the outlets of the remainder of said evaporators with said surge drum; wherby said one evaporator functions also as an oil still to return oil to the compressor.

2,655,795
REFRIGERATOR CONDENSING UNIT COOLER
John Dyer, Tucson, Ariz.
Application January 2, 1952, Serial No. 264,562
2 Claims. (Cl. 62—4)



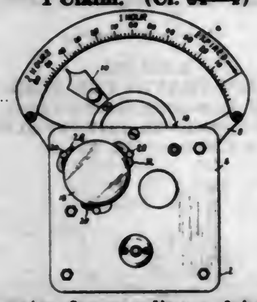
1. A refrigerator condensing unit comprising an insulated case, an intermediate partition dividing the interior into an outer compartment and an inner compartment; a condenser positioned in an opening in said partition, the said outer compartment being provided with an inlet opening enclosing a refrigerating evaporating pad, a water sump and a motor drawn pump for pumping water on to said pad and a shutter for closing said inlet opening; said inner compartment being provided with an outlet opening, a compressor, a receiver and fans for drawing air from said outer compartment and circulating it therethrough and forcing it out of said outlet opening, and a thermostat mechanism for controlling the operation of said circulating fans, said pump motor for moistening said evaporative pad, and said shutter, whereby when the temperature within the case rises above a predetermined degree, said fans will operate, said pump will pump water to moisten said evaporative pad and said shutters will open admitting air into said outer compartment through said evaporating pad and forcing it over the surface of said condenser; said fans operating to circulate air within said insulated case when the temperature within it falls below a predetermined degree.

2,655,796
PROCESS OF AND APPARATUS FOR SEPARATING GAS MIXTURES CONTAINING HIGHER-BOILING IMPURITIES
Philip K. Rice, Kenmore, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application May 20, 1949, Serial No. 94,331
14 Claims. (Cl. 62—123)



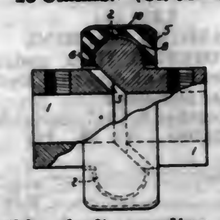
1. A process for the low-temperature separation of a gas mixture containing higher-boiling impurities which comprises providing a first stream of the mixture at a condensation pressure below 125 p. s. i., freed of moisture, and cooled to a low temperature; cleaning such stream of residual impurities; providing a second stream of the mixture at said pressure, free of moisture, and cooled to a higher temperature desired for work expansion such that it contains some of the impurities in solid phase; removing impurities from said second stream at said higher temperature; expanding the second stream with production of external work to a low pressure; rectifying the cleaned first stream to produce higher and lower boiling separation products; and effecting heat exchanges for using at least part of the refrigeration of said work expansion and of at least the lower-boiling product to effect liquefaction of a portion of the cleaned first stream and the balance of the refrigeration for cooling incoming gas mixture.

2,655,797
TIMER APPARATUS FOR PARKING METERS
Gerald A. Hale, Oklahoma City, Okla.
Application March 21, 1949, Serial No. 82,631
1 Claim. (Cl. 64—4)



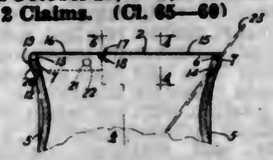
An apparatus for coupling a driving unit having a drive shaft to a framed driven unit having a driven shaft, comprising a bearing member rotatably disposed in the frame of the driven unit, said bearing member having an aperture therein to receive the drive shaft and the driven shaft, whereby the bearing member will transmit rotative movement of the drive shaft to the driven shaft, a plurality of outwardly extending circumferentially spaced flanges on the driving unit, the outer end surfaces of all of said flanges being substantially tangentially tapered in the same direction, and a plurality of studs secured to the frame of the driven unit circumferentially around said bearing member, said studs having recesses therein to receive said circumferentially spaced tapered flanges and secure the driving unit to the driven unit.

2,655,798
FLEXIBLE SHAFT COUPLING
Eldon Paul Neher, North Manchester, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio
Application December 28, 1950, Serial No. 203,061
13 Claims. (Cl. 64—14)



1. A flexible shaft coupling comprising two coupling members having axially extending torque arms that are interfingered and spaced circumferentially around a center, each arm having a driving lug projecting radially outwardly therefrom, and a yieldable positioning and connecting sleeve surrounding said torque arms and comprising an annular body of elastic rubber, said rubber body having sockets opening to the interior thereof intermediate its ends in which said lugs engage, the sockets receiving the lugs of one coupling member alternating with sockets receiving the lugs of the other coupling member circumferentially of said annular body, said sockets opening to the interior thereof being positioned axially and circumferentially of said body to axially space said coupling members and circumferentially space said arms.

2,655,799
SUGAR BOWL
Tito Pasta, Los Angeles, Calif.
Application October 18, 1948, Serial No. 55,055
2 Claims. (Cl. 65—60)



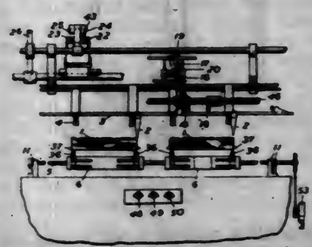
2. In a device of the character as disclosed, a bowl, the upper edge of one side and portions of the upper edges of two adjoining sides of the bowl extending from said upper edge of said side being undercut to form an external bead, a two-part cover having its parts hinged together with its hinge knuckles located on the under side of said cover, one part of said cover being formed with a depending inturned flange on three outer edges thereof to fit over the three sides of said bead, and the other part of said cover being planar and adapted to swing down and overlie the upper edges of another side and the portions of said two sides of the bowl, and a portion of the upper edge of said first side being cut away, through which cut-away portion said depending hinge knuckles may pass to permit said depending flange to slide on or off said bead on the upper edge of said bowl.

2,655,800
STRAIGHT BAR KNITTING MACHINE
Kurt Willi Wickardt, Liverpool, England, assignor to Hosemaster Machine Company Limited, Liverpool, England, a British company
Application April 9, 1951, Serial No. 219,913
In Great Britain April 11, 1950
9 Claims. (Cl. 66—127)



1. In a straight bar knitting machine embodying a plurality of reciprocable thread carrier rods and thread carrier stops for limiting the travel of said thread carrier rods, a driving shaft common to a plurality of thread carrier rods, power drive means for oscillating said shaft back and forth in opposite directions of rotation, a plurality of toothed wheels mounted on said shaft and each associated with one of the thread carrier rods, a friction clutch for each of said toothed wheels for frictionally coupling said toothed wheels with said shaft, and means between said toothed wheels and said thread carrier rods for selectively establishing a driving relationship between said toothed wheels and their respective thread carrier rods and for interrupting such driving relationship.

2,655,801
KNITTING AND OTHER TEXTILE MACHINE
John Edward Lynam, Mapperley, Nottingham, England, assignor to William Cotton Limited, Loughborough, Leicestershire, England
Application August 24, 1949, Serial No. 112,041
In Great Britain August 27, 1948
6 Claims. (Cl. 66—149)

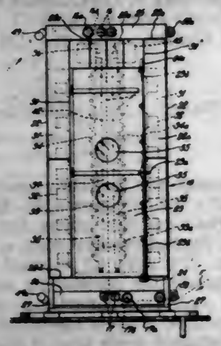


4. In fabric draw-off mechanism for a textile machine having a fabric take-up roll, an electromagnetic coupling for driving the roll; and means automatically operative to vary the current flow to the magnetic coupling and so change the torsional influence of the latter for variation in the tension imposed upon the fabric during different predetermined stages in the knitting cycle of the machine.

2,655,802
APPARATUS FOR PHOTOCHEMICAL DYEING
Leonard E. Ravich, New York, N. Y., assignor to Brown-Allen Chemicals, Inc., New York, N. Y., a corporation of New York
Application January 5, 1950, Serial No. 136,980
13 Claims. (Cl. 68—5)

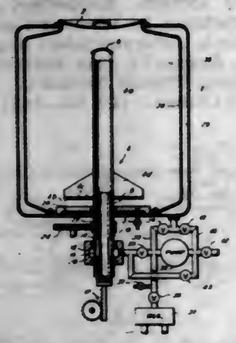
1. Apparatus for treating textile fabrics and other materials, to which a photosensitive dye has been applied, which comprises a pair of opposed ultra-violet light-transmitting plates, a

conveyor for moving the material continuously in a path between but spaced from said plates, a source of ultra-violet light located near each plate at the side thereof remote from said path, a liquid supply pipe, and a spray system connect-



ed to said pipe for introducing moisture particles between said plates and having spray outlets located on each side of the moving fabric between said path thereof and the adjacent transmitting plate.

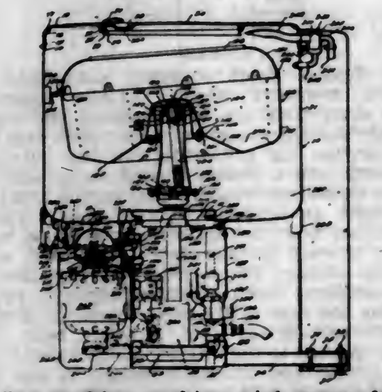
2,655,803
LAUNDRY APPARATUS HAVING HEATER, HOLLOW AGITATOR, AND SQUEEZER EXTRACTOR
Iliff David Richardson, Houston, Tex.
Application September 14, 1951, Serial No. 246,691
3 Claims. (Cl. 68—15)



1. In a washing machine including an outside tub with an agitator therein, the combination of a flexible tub positioned within said outside tub and forming a washing chamber containing said agitator, a valve extending into the bottom portion of said washing chamber and providing an opening communicable therewith, the top of said agitator having an opening communicating with said washing chamber, said agitator having a passageway therethrough communicating with said top opening and with said valve opening in the bottom of said washing chamber, a pump with suction and discharge lines, said suction line being connected through a valve to said agitator and communicating with said top opening in the agitator, said suction line being further connected through a valve to said outside tub in back of said flexible tub, said suction line being further connected to a source of water of controllable temperature, said discharge line being connected through a valve to said outside tub in back of said flexible tub, said discharge line being further connected through a valve to said agitator and communicating with said top opening in the agitator, said discharge line being adapted for a still further connection through a valve to a waste line, and a heater positioned in the bottom portion of said washing chamber.

2. In a washing machine including an outside tub with means for agitating fluid therein, a flexible tub secured within said outside tub and enclosing a wash chamber and forming a between-tubs chamber, pump means adapted to take suction from a top portion and from a bottom portion of said wash chamber, and from the between-tubs chamber, and adapted to discharge to a waste line, and means for placing fluid under pressure in the between-tubs chamber.

2,655,804
WASHING MACHINE
Kendall Clark, Oakwood, Ohio, assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Application December 9, 1947, Serial No. 790,494
7 Claims. (Cl. 68—23)



7. In a washing machine, a tub, means for supporting the tub, drive mechanism beneath said tub including a shaft, a basket within said tub having a downwardly projecting stem on the bottom, a resilient element for mounting said stem on a rotatable support, crank means engaging the end of the stem for wobbling the basket through the flexing of said resilient element, brake means for restraining the basket and rotatable support against rotation, means for moving said shaft downwardly for disconnecting said crank means from said stem and connecting the shaft to said rotatable support for driving said basket in rotation, with the basket free to assume a substantially horizontal position, a housing encompassing said rotatable support, resilient means engaging the base of said housing permitting it to tilt relative to the tub, snubbing means engaging said housing for preventing undue precession of the basket when being accelerated up to and beyond its critical speed in rotation, and means for interrupting the spinning operation of the basket when the precession exceeds a predetermined amount.

2,655,805
COMBINED LOCK AND SEAL DEVICE
Irving J. Fletcher, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a corporation of Connecticut
Application October 26, 1950, Serial No. 192,332
1 Claim. (Cl. 70—50)

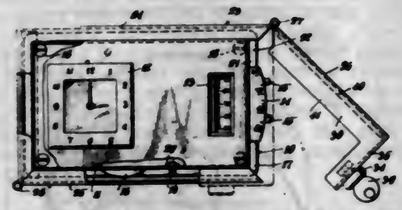
A padlock comprising a case having parallel openings therein, a substantially U-shaped

shackle member having a short leg and a long leg slidable in said openings, and sealing means including a notch extending across the inner side of the long leg of the shackle and a notch extending into the side of the case and overlapping the notch in the long leg of the shackle; the overlap-



ping portions of said notches providing an opening which extends through the said case and shackle and is adapted to receive a sealing member, when the shackle is in locked position, and thereby prevent movement of said shackle to its unlocked position.

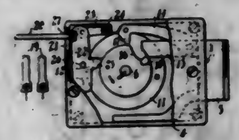
2,655,806
LOCK FOR THERMOSTATS
Ted Stiler, Brooklyn, N. Y.
Application January 24, 1950, Serial No. 140,323
2 Claims. (Cl. 70—57)



1. The combination of a thermostatic control device supportable on a surface and having a casing projected away from said supporting surface and from which a manually operated control protrudes, with a flanged frame mounted thereon, including members of said frame having flexibility to provide a separation of the members in an open position and a juncture of the members in a closed position, primary flanges on said frame positionable over said control and cooperating with said projected casing at a point adjacent said control and relatively close to said supporting surface, said flanges forming a periphery around a central area enclosed by said frame, a main portion of said thermostatic control device casing extending outside of and unenclosed by said frame, thermostatic control device indicia mounted on said extended portion of said casing, a secondary flange attached to said frame positionable between said thermostatic control device and said supporting surface and unattached thereto and extending across less than a substantial portion of said enclosed area, and means for locking said flexible frame members in the closed position when said flanges are so positioned whereby said control is rendered inaccessible.

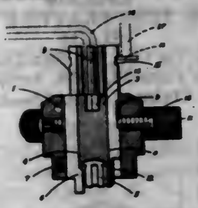
2,655,807
HOLDUP ATTACHMENT FOR SAFES AND VAULT LOCKS
Gerald G. Bateman, Toronto, Ontario, Canada
Application May 21, 1952, Serial No. 289,134
3 Claims. (Cl. 70—303)

1. A safe lock including a plurality of concentric combination wheels each having a peripheral notch adapted to be aligned with those of the other wheels, a catch wheel rotatable on the same axis as the combination wheels and having a notch in its periphery, a movable bolt, a pawl member for actuating said bolt and adapted to engage in the notch in the catch wheel, and a pin projecting from the side of the pawl member and riding on the peripheries of the combination wheels adapted to engage in the notches in said combination wheels when said notches are aligned in bolt-releasing position, in combination with protective means adapted to be actuated by said catch wheel when



said combination wheels are set in another position, said protective means including a click member adapted to engage in the notch in the catch wheel, said click member having a pin projecting from its side adapted to engage in the notches in the combination wheels when said notches are in alinement in another position.

2,655,808
PICK FOR TUBULAR LOCKS
Harvey G. Wilson, Taft, Calif.
Application October 20, 1951, Serial No. 252,301
3 Claims. (Cl. 70—394)

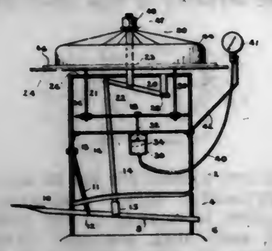


3. A pick, for tubular type locks, comprising a cylindrical body including a relatively short tubular neck of reduced diameter projecting axially from one end of said body, the latter having a plurality of longitudinal guide slots therein in circumferentially spaced relation concentrically about said axis in alinement with and extending through the neck, a locator and tension finger fixed in one slot and projecting a distance beyond the neck, pick fingers slidably engaged in the other slots for adjustment to positions of differential projection beyond the neck, said pick fingers at the end corresponding to the neck matchingly engaging in the slots therein both circumferentially and radially thereof, set screws threaded radially into the body in circumferentially spaced relation and in positions to engage and releasably secure the pick fingers in said positions, the slots being open to the end of the body opposite the neck, and the pick fingers projecting some distance out of the slots at said opposite end, to allow of manual engagement of the pick fingers beyond said opposite end of the body to slide said pick fingers when said set screws are unloosened; the body being formed at said opposite end and centrally thereof with a non-circular socket adapted for the reception of a wrench element.

2,655,809
TESTING APPARATUS FOR CLUTCH PLATES
Robert L. Edens, Tulsa, Okla.
Application November 5, 1948, Serial No. 58,449
2 Claims. (Cl. 73—161)

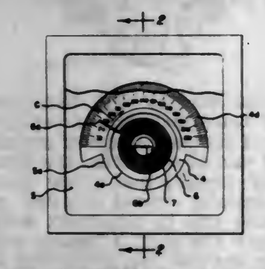
1. An apparatus for testing tension in a spring actuating member of a clutch, and comprising a housing, a moveable load reaction plate disposed

above the housing for supporting the clutch, a second moveable plate disposed in the housing and rigidly connected to the first mentioned moveable plate, a hydraulic cylinder fixed within the housing, a piston carried by the second mentioned moveable plate and cooperating with the



cylinder, a pressure gage, a conduit providing communication between the cylinder and the gage, link means for drawing the clutch against the first mentioned load reaction plate, and means connected with said link means for causing a compression of the spring actuating member of the clutch.

2,655,810
PROJECTOR TEMPERATURE INDICATING SLIDE
Ralph D. La Coe, Jr., San Diego, Calif.
Application June 13, 1950, Serial No. 167,794
7 Claims. (Cl. 73—343)



7. A frame of suitable size to be slidably placed within the film slideways of a conventional projector and with a portion of said frame in the light path thereof, a bimetal temperature responsive element having an indicator portion deflectable in response to temperature, said element being supported by said frame with the indicator portion in said light path, said frame portion including opaque and light transmitting areas arranged in the form of a temperature scale cooperating with said indicator portion of said element, whereby light from said projector will throw an image of said scale and said indicator portion on a screen, when said frame is in said slideways.

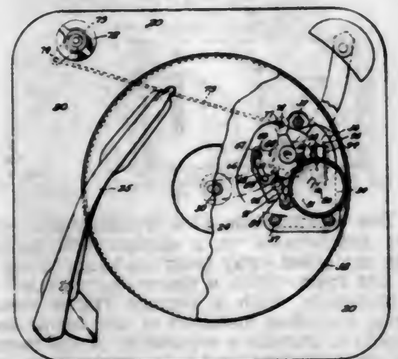
2,655,811
DEVICE FOR LIMITING ROTARY MOTION
William H. Behrens, Postville, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application February 16, 1952, Serial No. 271,965
4 Claims. (Cl. 74—10.54)

1. Apparatus for limiting the relative motion between a pair of dials comprising, an outer dial, an inner dial, a generally arcuate slot formed in the inner dial, cam means formed in the outer dial, a base plate, a first hollow shaft rotatably supported by said base plate and attached to said outer dial, a shaft received within said hollow shaft and attached to said inner dial, a link member pivotally supported on said plate, a lock-



ing pin attached to said link member and extending transversely thereof between the outer and inner dials, and said locking pin engageable with the cam portion of the outer dial.

2,655,812
DRIVING MECHANISM FOR PHONOGRAPHS
James L. D. Morrison, Benton Harbor, Mich., assignor to V-M Corporation, Benton Harbor, Mich., a corporation of Michigan
Application June 9, 1950, Serial No. 167,001
19 Claims. (Cl. 74—199)

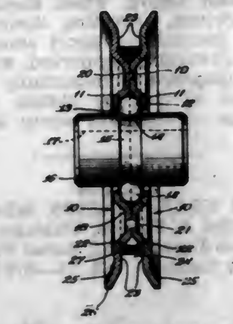


1. The combination with a phonograph including a base, and a record-supporting turntable provided with a peripheral friction face; of variable speed driving mechanism for the turntable, comprising: an electric motor, a laterally movable roller engaging the friction face on the turntable, pulley elements of different diameters driven by the motor, engageable by the roller for driving the turntable at different speeds, and movable vertically to positions for engagement of the roller with said elements respectively, mechanism including a cam-plate for selectively shifting the elements vertically into said positions for speed changes, and means operable by the cam-plate for shifting the roller to clear said elements during the vertical shift of the elements and engaging the roller with said elements when they are shifted into said positions.

2,655,813
SHEAVE
Edward N. Howell, Holmes, Pa.
Application August 10, 1950, Serial No. 178,719
3 Claims. (Cl. 74—230.5)

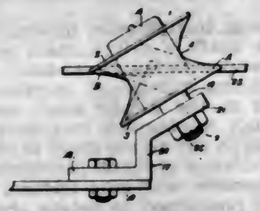
1. As an article of manufacture, a sheet metal sheave having a spider comprising a pair of opposed circular plates each having a pair of projecting studs and a pair of apertures, with the studs of each plate engaging the apertures of the other; said plates being secured directly to each other at a plurality of points in an annular area between the center of the sheave and the rim thereof, with said plates having apertures at their

center with oppositely disposed, arcuately shaped hub portions coacting to form a central ball race, and outwardly offset step portions extending to a pair of parallel side walls spaced apart from each other and terminating in outwardly flared diverging flanges at the rim of the sheave, together with a load member comprising a narrow continuous annular ring interposed between



said parallel side walls and seated on the outwardly offset step portions of each of said plates, with a smooth, unbroken cylindrical exterior surface on said ring perpendicular to the parallel side walls and coaxial with the axis of rotation of the sheave, whereby a cable running in the groove of said sheave bears only on a smooth, unbroken face surface parallel to the axis of rotation and extending between the parallel walls of the groove.

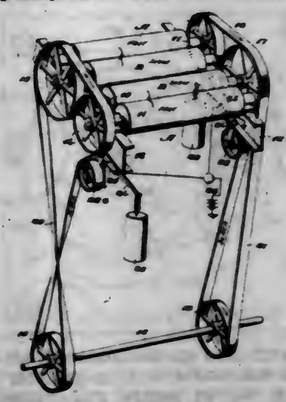
2,655,814
GUIDE DEVICE FOR INDUSTRIAL FLAT BELTS, ROPES, OR THE LIKE
Danckert Krohn Holm, Oslo, Norway
Application August 29, 1950, Serial No. 182,065
In Norway August 26, 1949
5 Claims. (Cl. 74—240)



1. A conveyor or transmission mechanism comprising a flat belt, guide means for an edge of the belt comprising a pulley having a groove of hyperbolical cross sectional configuration, and means mounting the pulley so that an edge of the belt touches the groove in line contact along a rectilinear generatrix of the groove.

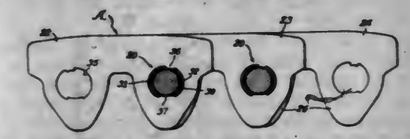
2,655,815
BELT DRIVE FOR GRIND MILL ROLL STANDS
Kenneth McClelland, Chicago, Ill.
Application February 16, 1951, Serial No. 211,275
11 Claims. (Cl. 74—242.11)

1. A grind mill roll stand including, two pairs of rolls each pair comprising a fast roll and a slow roll, like rolls symmetrically placed with respect to the center line of the roll stand; companion roll pulleys one fixed to the fast roll of one pair and one fixed to the slow roll of the other pair at one side of the roll stand, similar companion pulleys fixed to the other fast and slow rolls, respectively, at the other side of the roll stand; a drive shaft having fixed thereto two driving pulleys one alined with the companion roll pulleys at one side of the roll stand and the other alined with the companion roll pulleys at the other side of the roll stand, and an endless belt at each side of the roll stand each engaged over the pulleys of the fast and the slow rolls



and the related drive shaft pulleys at its side of the roll stand, the slack side of each belt leading to its related fast roll, and each operable to rotate its related fast and slow rolls in the same direction but oppositely to the direction in which the other fast and slow rolls are rotated by the other belt.

2,655,816
SPRING BUSHED CHAIN
Earl F. Riopelle, Detroit, Mich., assignor to Morse Chain Company, Ithaca, N. Y., a corporation of New York
Application May 21, 1949, Serial No. 94,661
11 Claims. (Cl. 74—251)

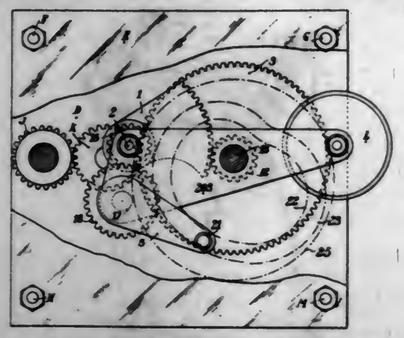


1. A silent chain structure including an automatic slack take-up assembly, comprising a plurality of chain links interconnected by pins of identical construction, each of said pins having operatively associated therewith double liners each defining a bushing with a curvature whose radii vary in length and are less than the diameter of their associated pin and arranged so that the pin is forced to nest in the bushing by deflecting the curvature of the bushing when load is placed upon the chain, said arrangement being particularly characterized in its operation by a spring action of each joint responsive to the load place upon the chain.

2,655,817
MECHANISM FOR CONVERTING A UNIFORM MOTION INTO A VARIABLE MOTION
Maurice François Armelin, Paris, France, assignor to Société à Responsabilité Limitée so called: Societe d'Etudes de Machines Speciales, Paris, France
Application April 3, 1951, Serial No. 219,099
In France April 7, 1950
4 Claims. (Cl. 74—394)

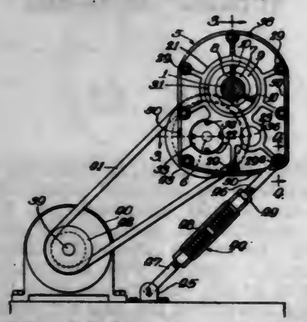
1. A mechanism for the conversion of a uniform rotational motion into an algebraically vari-

able motion which comprises a frame, a composite driving member rotatably mounted in said frame, a toothed driven member rotatably mounted relative to and coaxial with said driving member, a toothed planet member carried by said composite driving member eccentric to the axis of the same and in mesh with said driven member, a gear



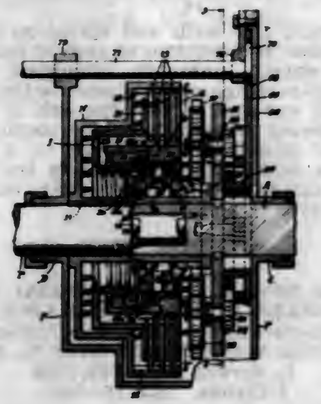
connected with said planet member, an arm pivoted on said composite driving member about an axis which is out of centre with respect to the axis of said driving member, and having a gear connected thereto, said arm being adapted to displace said planet member angularly by means of said gears, a follower on said arm, and a fixed cam on the frame for said follower.

2,655,818
POWER TRANSMISSION UNIT
Alexander T. Bedic, Mishawaka, Ind., assignor to Dodge Manufacturing Corporation, Mishawaka, Ind., a corporation of Indiana
Application May 8, 1950, Serial No. 160,670
6 Claims. (Cl. 74—421)



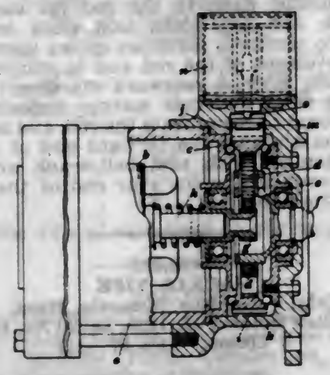
1. A power transmission unit adapted for detachable driving connection with and pendular support on a shaft to be driven, said unit comprising an elongated casing of substantially greater length than width and of relatively shallow depth between spaced apart substantially parallel walls of said casing, said casing being substantially symmetrical about a medial plane extending transversely of said walls in the direction of the elongation of the casing, a power input shaft and an intermediate drive shaft extending between and journaled on said walls with their respective axes parallel to, spaced from and disposed on opposite sides of said medial plane, said input shaft carrying a pinion drivingly connected with a gear on the intermediate shaft, and a power take-off shaft comprising a sleeve carrying a gear thereon in driving engagement with a pinion on the intermediate shaft, said sleeve extending between and being journaled on said spaced walls with its axis lying in said medial plane, the opposite ends of said sleeve projecting outwardly of said spaced walls through alined openings therein, whereby the shaft to be driven may extend through said sleeve and casing and project therefrom at the opposite sides of said casing, fastening means to drivingly connect the sleeve on the shaft to be driven, said sleeve, when mounted on the shaft to be driven, providing therewith a common axis of pendular support about which the unit may be swingably supported, with its center of gravity disposed substantially below said common axis to thereby obtain substantially static balance of the unit about said common axis.

2,655,819
VARIABLE TRANSMISSION MECHANISM
Chester A. Posson, Chicago, Ill.
Application June 9, 1951, Serial No. 230,805
12 Claims. (Cl. 74—679)



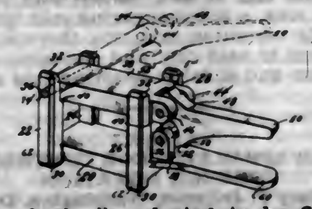
1. A variable transmission mechanism including a power shaft, a driven shaft positioned in axial alignment with the power shaft, and means for transmitting rotational movement of the power shaft to the driven shaft comprising a friction clutch mechanism including a friction member fixed to the driven shaft to rotate therewith and a clamp element positioned for frictional engagement with said friction member, a bevel pinion positioned to rotate about an axis extending radially of the power shaft, a support for said bevel pinion rotatable about the axis of the power shaft, a pair of bevel gears revolvable about the axis of the power shaft and meshing with said bevel pinion at opposite sides of its axis of rotation, whereby orbital movement of said pinion occurs about the axis of the power shaft at a rate of one full orbital movement per one-half the sum of the total revolutions of each of said bevel gears in the direction of movement of the power shaft; means operatively connecting the said bevel gears to the power shaft including separate trains of gears for imparting movement to each of the bevel gears at various speeds relative to the power shaft in a direction opposite to the movement thereof; and means including a torsion spring for operatively connecting the clamp element of the said clutch mechanism with the support of said bevel pinion, whereby said movement of the pinion support about the axis of the power shaft imparts corresponding rotational movement to the driven shaft.

2,655,820
POWER TRANSMISSION MECHANISM
John Archibald Baines, Acton, London, England, assignor to Rotax Limited, London, England
Application May 31, 1950, Serial No. 165,244
In Great Britain June 3, 1949
1 Claim. (Cl. 74—785)



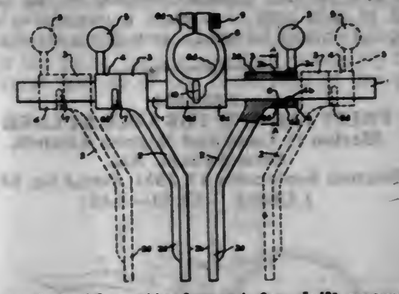
A power transmission mechanism comprising, in combination, an electric motor, an epicyclic speed reduction gearing connected to the motor and including a freely mounted toothed annulus, a pawl engageable with the toothed annulus for preventing rotation thereof by the motor in one direction while permitting free rotation in the opposite direction, spring means for retracting said pawl clear of the toothed annulus, a second pawl independent of the first pawl and oppositely directed thereto for preventing rotation of the annulus in one direction while permitting free rotation thereof in the opposite direction, spring means for retracting said second pawl clear of the annulus, a pair of solenoids for respectively moving the pawls into engagement with the annulus, and means for alternatively energising said solenoids whereby when either pawl is engaged the annulus can rotate idly if motion is imparted to it from the driven side of the gearing.

2,655,821
JIG
Norman E. Cook, Monroe, Mich.
Application October 29, 1951, Serial No. 253,696
2 Claims. (Cl. 77—62)



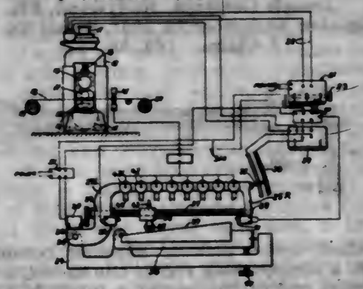
1. In a basic jig adapted to be fitted with selected locators, a base plate, corner posts attached to the edge surfaces of the plate and extending above and below the plate, a clamping element pivotally mounted between a pair of the posts below the upper ends thereof and movable into and from a position overlying the base plate and swingable between the corner posts, stop means on the other pair of corner posts for limiting the swinging movement of the clamping element relative to the base plate and means carried by the base plate and clamping element for releasably locking the clamping element in such arrested position.

2,655,822
WORKHOLDER FOR DRILL PRESSES
Theodore M. Klaven, Jackson, Mich., assignor to Universal Vice & Tool Company, Parma, Mich., a partnership
Application June 15, 1948, Serial No. 33,067
1 Claim. (Cl. 77—63)



A work holder attachment for drill presses or the like having a vertical extending column and a horizontal table, comprising a horizontally disposed cylindrical bar, a column clamping structure attached to the central portion of said bar, work holding jaws having outer portions parallel to each other and inner portions diverging from said outer portions to clear said central portion and terminating in boss portions bored to receive the portions of said bar extending in opposite directions from said central portion, said bored bossed portions having a sliding and rotational fit with said bar whereby said jaws may be pivoted upon said bar in parallel vertical planes relative to the table, rod locking structure disposed on said bar at the outer side of each of said bossed portions with respect to said central portion, each said rod locking structure having parts interlocking with parts of the corresponding boss portion to prevent relative axial movement between said structure and said boss portion, including pin and slot structure for permitting independent partial rotation of each said structure on said rod relative to its said boss portion, said rod locking structures each having an actuating member for manipulating said structure to clamp the same at selective positions along said bar to vary the spacing between the parallel portions of said jaws disposed above the table.

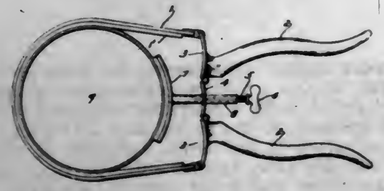
2,655,823
METAL FORMING
Giuseppe Cocco, Yonkers, N. Y., assignor to Hydropress, Incorporated, New York, N. Y., a corporation of Delaware
Application January 11, 1952, Serial No. 265,992
5 Claims. (Cl. 80—56)



1. In corrective speed means for a screw-down mechanism of a mill for rolling tapered sheet, said mill having a screw-down mecha-

nism controlling pressure applied to rolls of said mill, the combination including a pivoted arm, a carriage movable back and forth on said arm, a cam, cam follower means on said carriage contactable with said cam, said arm being movable by said cam and follower means as said carriage is moved back and forth on said arm, and control means operated by the movement of said arm to control a corrective speed source of energy for said screw-down mechanism.

2,655,824
FRUIT JAR AND THE LIKE HOLDER
Marion C. Land and Mignon Kimbell, Birmingham, Ala.
Application September 17, 1951, Serial No. 247,002
1 Claim. (Cl. 81—3.43)



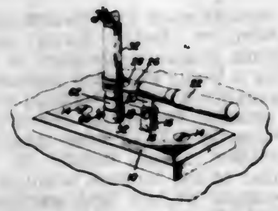
A fruit jar holder of the character described comprising a flexible band in shape defining part of a circle, said band having a non-stretchable outer portion and a rubber lining thereto attached, a center metal plate, two metal handles adapted for manual operation thereof, each of said handles having an integral end plate-shaped portion positioned at a 90 degree angle compared to the major axis of the other part of the handle, the inner edges of said handle plates being hinged to said center plate, the other outer ends of said handle plates being hinged to the ends of said flexible band; a curve-shaped plate, a bolt with screw-threads in the face of its length, one end of said bolt mounted revolvably in the center of said curved plate, said center metal plate having a screw-threaded hole through its center, said bolt mounted revolvably in said threaded hole, a wing-shaped nut integral on the outer end of said bolt, two similar rods, one end of each rod attached fixed to said curved plate, said center plate having two plain holes therethrough, said plain holes being in line with said threaded hole in the same plate, said two rods mounted slidable through said plain holes.

2,655,825
AUTOMATIC SHEET METAL REFORMING HAMMER
Joseph Gendron, Hollywood, Fla.
Application November 29, 1951, Serial No. 258,959
1 Claim. (Cl. 81—15)



A sheet metal picking hammer comprising a barrel, a reciprocable rod in the barrel, a head at the front end of the barrel, a guide in the head, an elongated hammer slidably mounted in the guide and positioned substantially at right angles to the rod, spring means retracting the hammer, a substantially bell-crank arm pivoted to the head and having one end engaging the rear end of the hammer and having its other end in the path of movement of the rod, front and rear springs in the barrel, an abutment at the front end of the barrel for the front spring, an abutment at the rear end of the barrel for the rear spring, means fixed to the rod for movement therewith and separating said front and rear springs to compress the front spring upon a forward movement of the rod and to compress the rear spring upon a rearward movement of the rod, said front and rear springs opposing each other to tend to reciprocate the rod, and said rear spring maintaining the forward end of the rod in engagement with said bell-crank arm, and means connected to the rear end of the rod to actuate the same.

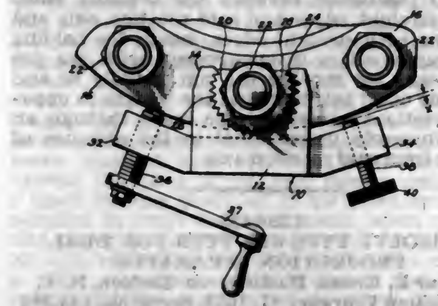
2,655,826
HACKLE VISE
John F. Goldsby, Missoula, Mont.
Application October 16, 1950, Serial No. 190,410
2 Claims. (Cl. 81—17)



2. A fisherman's fly tying vise comprising a spindle having a pair of relatively movable jaws at one end thereof, said jaws having outwardly sloping bulbous portions adjacent their work gripping ends, a jaw-actuating sleeve slidably embracing said spindle and having an end portion engaging said bulbous portions to close said jaws upon sliding movement of said sleeve upon said spindle, resilient means normally biasing said sleeve toward said jaws so as to maintain said jaws in closed position, means to slide said sleeve on said spindle in an opposite direction to permit said jaws to open, said resilient means comprising a compression spring operatively interposed between said sleeve and spindle, an adjustable seat mounted on said spindle and engaging one end of said spring, said seat comprising a ring, a screw engaging said spindle and adjustably mounting said ring thereon, a thimble secured to said ring and enclosing said ring and spring and slidably receiving said sleeve.

2,655,827
FEELER APPARATUS FOR CONTROLLING WRENCH ROTATION
Sidney P. Johnson, Washington, D. C.
Application July 11, 1952, Serial No. 298,484
5 Claims. (Cl. 81—53)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A wrench for turning a rotatable head mounted in proximity to a fixed support, said wrench comprising an arm formed to grip said head, a stop having a feeler member, and a thrust member, said members being adjustably projected outwardly from said arm toward said fixed support and said thrust member being adapted to be forced against said fixed surface when said head is gripped, whereby said stop can be set a predetermined distance from said support and said thrust member forced against the surface, said force causing the wrench to swing



about the axis of said head to the limit of said stop.

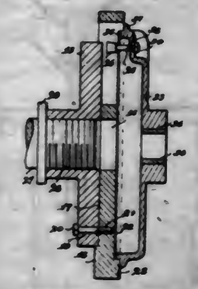
2,655,828
AUTOMATIC TAKE-UP STEADY REST
Lysle L. Hazen, Detroit, Mich., assignor to Enterprise Machine Parts Corporation, Detroit, Mich., a corporation of Michigan
Application March 1, 1951, Serial No. 213,420
2 Claims. (Cl. 82—38)



1. In a device of the class described a supporting bracket; a passage-bearing member fixedly mounted on said bracket; a work-piece contacting member adapted for contacting at one of its ends with a work-piece and slidably projected at its opposite end into said passage-bearing member, said end within said passage-bearing member having a cam surface; an engagement block slidably mounted within said passage-bearing member and engageable with said cam surface for preventing movement of said contacting member inwardly of said passage-bearing member and a spring for normally retaining said engagement block in clamping relation to said cam surface and a cylinder; a piston slidably mounted in said cylinder, a piston rod on said piston projecting into said passage-bearing member and engageable with one end of said contacting member; an extension on said piston rod slidably projecting through a portion of said contacting member and having a head engageable with said engagement block, the movement of said piston in one direction effecting an outward movement of said contacting member and thereafter, through said spring, movement of said engagement block into clamping relation with said cam surface, the movement of said piston in the opposite direction effecting a movement of said engagement block from clamping relation with said cam surface and thereafter, through said spring, movement of said contacting member inwardly of said bearing member.

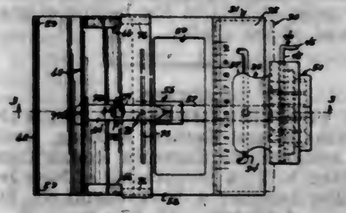
2,655,829
WORKHOLDING ATTACHMENT FOR LATHES
Sam Fiorino, Du Quoin, Ill.
Application February 17, 1950, Serial No. 144,689
2 Claims. (Cl. 82—40)

2. A work holding attachment for turning lathes comprising a work supporting plate, means for detachably connecting said attachment to a lathe spindle for rotation therewith, said plate having a recess in its outer side disposed concentric with the axis of the lathe spindle and adapted to receive therein a portion of the periphery of the open end of an end section of an electric motor housing and snugly engaging said periphery portion to mount the motor housing section coaxially with the lathe spindle, said plate having radially extending slots of wedge-shaped cross section converging in width toward the outer side of the plate, bolts projecting outwardly from the recess portion of the front face of the plate



and extending through fastening receiving openings of the motor housing section, and nuts engaging the bolts and bearings against the outer side of the motor housing section for detachably securing the motor housing section to said work supporting plate, said bolts having wedge-shaped heads fitting said slots and radially adjustable therein, said bolt heads being wedged in the slots by tightening of the nuts against the motor housing section to anchor the bolt heads in different radially adjusted positions in the plate.

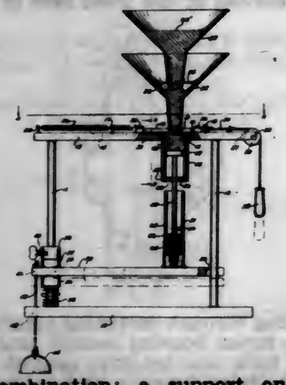
2,655,830
AUTOMATIC HARMONICA INSTRUCTOR
Anthony Balint, New York, N. Y.
Application October 10, 1950, Serial No. 189,432
5 Claims. (Cl. 84—377)



1. In combination, a harmonica, a hollow holder including a pair of spaced parallel side walls arranged on opposite sides of said harmonica, the front end of said holder being open, there being a trackway arranged in the exterior surface of each of said side walls, a body member having a pair of spaced wings projecting therefrom, ball bearing carried by said wings for engagement with said trackways, a trebler element carried by said body member, a mouthpiece mounted on said body member and provided with a single opening therein, an arm projecting rearwardly from said mouthpiece, a support member arranged rearwardly of said harmonica and mounted for longitudinal movement along said arm, a bracket projecting rearwardly from said holder and secured thereto, said support member being mounted for transverse sliding movement along said bracket, a stationary card-holding frame extending upwardly from said support member, a pointer element provided with a pair of spaced windows

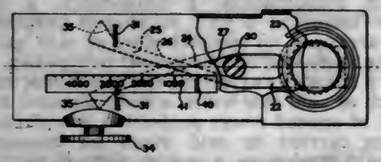
formed integrally with said support member, and a frame arranged rearwardly of said last-named card holding frame for supporting a card having musical indicia thereon.

2,655,831
ART OF SHOTGUN SHELL LOADING
John E. Veum, Milwaukee, Wis.
Application April 30, 1951, Serial No. 223,749
8 Claims. (Cl. 86—31)



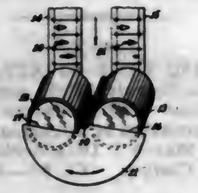
1. In combination: a support on which is adapted to be positioned a partially loaded shotgun shell having an open end with a powder charge and an over-powder wad within said shell; a filler measuring container adapted to be positioned a predetermined distance above said support, said container having a vertically movable bottom wall; and a stem of predetermined length fixed to and depending from said bottom wall, said stem being adapted to extend into the open end of a partially loaded shell on said support to rest on the over-powder wad thereof and to thereby position the movable bottom wall of the measuring container a predetermined height above the over-powder wad in said shell, whereby the effective volume of the measuring container is inversely proportional to the height of the over-powder wad of the shell.

2,655,832
RANGE FINDER ADJUSTING MECHANISM
Joseph Mihalyi and Herbert A. Bing, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application January 6, 1951, Serial No. 204,712
1 Claim. (Cl. 88—1)



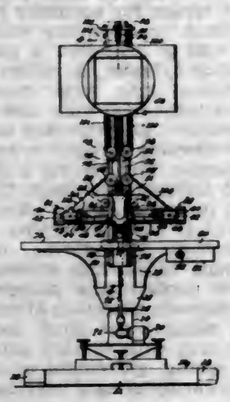
An optical device for deviating a beam of light comprising two equal power wedges of transparent light refractive material wedged transversely of the light beam in successive planes orthogonal to the beam, rims supporting the wedges rotatable in said planes about a common rotation axis, an arm rigidly attached to each rim and extending laterally but non-radially from each rim with a straight edge on each arm, the straight edges being equidistant from said rotation axis and in general crossed but having directions which, at zero deviation setting of the device with the two wedges directly opposed, are parallel, facing each other, and separated a distance D, a single circular pin of diameter less than D positioned between the crossing point of the straight edges and said rotation axis and engaging both straight edges, means for holding the straight edges in engagement with the pin and means for moving the pin radially to and from the optic axis to rotate the wedges in opposite directions to deviate the beam through an angle inversely proportional to the distance of the pin from said rotation axis.

2,655,833
DISSOLVE TYPE SHUTTER FOR DUAL PROJECTION APPARATUS
Arthur E. Krows, Hastings-on-Hudson, N. Y.
Application February 21, 1950, Serial No. 145,395
2 Claims. (Cl. 88—19.3)



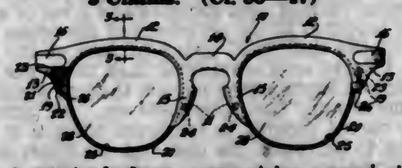
1. For use in a picture projection apparatus provided with a dual lens dissolve system: a rotatable shutter having an opaque semi-circular portion, with oppositely disposed cut-off edges, one of which is radial and the other parallel to the former and displaced therefrom in a direction opposite to the operative direction of rotation of the shutter.

2,655,834
REFLECTING PROJECTOR WITH AUTOMATIC FOCUS MECHANISM
John T. Pennington, Alexandria, Va.
Application August 27, 1952, Serial No. 306,741
9 Claims. (Cl. 88—24)
(Granted under Title 35, U. S. Code (1952), sec. 266)



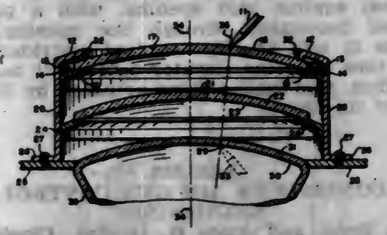
1. A projector comprising a base, a sleeve extending upwardly therefrom, an upstanding column having the upper portion hollow and supported on said base in said sleeve, a table mounting sleeve mounted on the column, a bracket attached to the table mounting sleeve, a table supported on the bracket at substantially right angles to the column, first and second rollably mounted sleeves mounted above the table mounting sleeve, the first being mounted above the second, an arm mounted on the first sleeve, a projector lamp housing assembly mounted on the arm, a bellows on the housing, a frame on the bellows, a lens in the bellows, a guide rod mounted on the housing and slidably engaging the frame, an extended frame mounted transversely of the column and on the second sleeve, an arm extending from the extended frame, the arm carrying the lens, a drive nut swivelly mounted on the extended frame, a drive screw engaged with the drive nut, means for driving the drive screw, said means comprising a shaft slidably mounted in the drive screw and adapted to exert torsion thereon when rotated, and power means for rotating the shaft at will, an arm extending from the top of the column, a roller mounted near the end of the arm, a roller mounted over the hollow upper portion of the column, chain means passing over the rollers, a counterweight attached to one end of the chain and vertically movable in the column, the other end of the chain being attached to the first sleeve, an elongated member floatingly mounted parallel to the column, upper and lower pairs of spaced rollers mounted on the member, a slider mounted on the member for longitudinal movement thereof, spaced upper and lower bracket members extending laterally from the elongated member and having aligned bores, the drive screw longitudinally engaging and being rotatably mounted in the bores between the bracket members, a support rod connected at one end to the arm on the first sleeve and at the other end to the slider, said rod being disposed parallel to the column, chain means extending from said arm down around each of the upper rollers and connected to the arm extending from the top of the column, a roller equidistantly and adjustably mounted on each side of the center of the transverse frame, and chain means around and connected to each roller and extending over one of the lower pair of spaced rollers on the elongated member and connected to the slider.

2,655,835
SPECTACLE FRAME
Vincent Salierno, Belleville, N. J.
Application August 20, 1949, Serial No. 111,425
3 Claims. (Cl. 88—47)



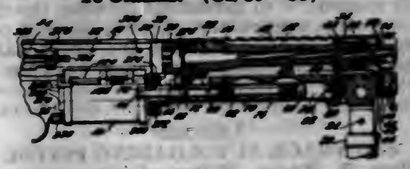
1. A spectacle frame comprising a semi-rimless plastic front element having 2 sets of members connected by a bridge, with each set including an arm, nose piece and end piece, each set having an inner groove therein for accommodating a part of the nasal side edge and the entire upper edge of a lens, a split-ring holder substantially completely encircling said lens, a portion of said split-ring holder located in said groove and extending along substantially the entire length thereof, the other portion of said split-ring holder enclosing the space between the end piece and nose piece, said first mentioned portion of said split-ring holder in said groove located entirely within the front and rear faces of said set, a pair of anchor pins spaced from each other and rigidly secured to said split-ring holder, said pins extending outwardly from said split-ring holder and being embedded in said front element to rigidly anchor said split-ring holder to said front element.

2,655,836
REFLECTION PLOTTING DEVICE
Chalmers W. Sherwin, Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application December 19, 1945, Serial No. 634,110
2 Claims. (Cl. 88—74)



1. A reflection plotting device for a cathode ray tube comprising, a ringlike structure adapted at one end to be supported by said cathode ray tube and having its other end extending outwardly from said tube, a curved sheet of transparent material forming a plotting surface, a curved transparent partially reflecting surface, and means for supporting said surfaces within said structure substantially parallel to one another and concentrically disposed about the longitudinal axis of said cathode ray tube, said plotting surface being positioned near said outwardly extending end of said structure, and said partially reflecting surface being positioned optically equidistant between said plotting surface and said cathode ray tube, whereby a plot may be made with a plotting scribe on said plotting surface of images appearing on said cathode ray tube by observation through said surfaces of one of said images and the virtual image of said scribe appearing superimposed on said cathode ray tube.

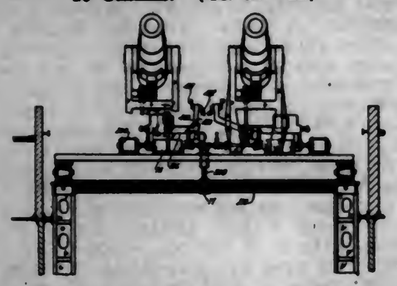
2,655,837
AUTOMATIC GUN
Melvin M. Johnson, Jr., Brookline, Mass., assignor to Melvin M. Johnson and Melvin M. Johnson, Jr., trustees of the Johnson Patent Trust, Boston, Mass.
Application September 16, 1947, Serial No. 774,310
18 Claims. (Cl. 89—33)



11. In combination with a firearm of the recoiling barrel type, a receiver, a barrel movable in recoil and counter-recoil therein, a breech associated with the barrel and movable therewith, a bolt and the bolt chamber in the receiver behind the breech, a feed mechanism housing chamber below the bolt chamber at the underside of the gun opening into the bolt chamber, said opening being narrower than the diameter of the cartridge, an elevator in the magazine chamber below the bolt chamber, said housing being releasably attached to the receiver, means releasably locking the feed mechanism to the receiver, said elevator having a transversely horizontal cartridge-receiving surface surmounting downwardly inclined surfaces at opposite sides thereof forming an approach for the line charge to the

horizontal surface and a discharge for the empty case from said surface, said top surface having a substantially flat rear portion over which the belt and base of the cartridge may slide uninterruptedly and an upwardly inclined forward portion recessed to cradle the small end of the cartridge, means yieldably pressing said elevator towards said opening to hold a cartridge resting thereon against said opening, with a portion thereof projecting through the opening, and means in said chamber to feed cartridges one at a time onto the elevator between it and the openings, said means being actuated by the recoil of the barrel.

2,655,838
CONTINUOUS AIM GUN CONTROL MECHANISM
Hans Ernst and Amos H. Hawley, Cincinnati, Ohio, assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application May 29, 1936, Serial No. 82,580
40 Claims. (Cl. 89—41)



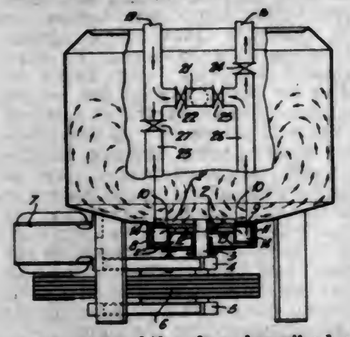
1. In a mechanism for maintaining a gun trained on a target regardless of constant movement of a supporting ship including a director, gyroscopic means for maintaining the director trained on a target, power operable means for actuating the gun, means controlled by relative movement between the director and supporting ship for controlling said power operable means and causing relative movement between the gun and ship, and position matching means having a portion directly responsive to movement between the gun and ship, a second portion directly responsive to movement between the director and ship, and means effective on said power operable means for varying the effect thereof when positional differences exist between said portions.

2,655,839
BLOWBACK AUTOLOADING PISTOL
William B. Ruger, Wilton, Conn., assignor to Sturm, Ruger and Company, Inc., Southport, Conn., a corporation of Connecticut
Application November 5, 1946, Serial No. 707,773
4 Claims. (Cl. 89—196)

4. An improved autoloading pistol of the blowback type which comprises a grip member formed of two complementary mating half parts which are formed of sheet metal and welded together to form a unitary structure, a tubular receiver which is cylindrical inside and outside secured to the barrel, a cylindrical breech bolt in the receiver, a firing pin, a hammer pivotally mounted to swing against the firing pin, the breech bolt extending through the rearward end of the receiver, both in its rearward and firing positions and serving as a closure for the receiver, the breech bolt having hand grip means on the rearward end for pulling the breech bolt rearward to cock the hammer, means for guiding the breech bolt in a slidable but non-turnable position, and means for removably securing the tubular receiver to the grip member at the forward and rearward ends.



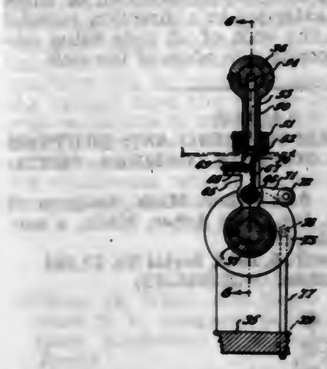
2,655,840
APPARATUS FOR DEFIBRATING WASTE PAPER
Karl Arvid Skardal, Stockholm, and Olov Birger Börjeson, Bromma, near Stockholm, Sweden
Application March 22, 1950, Serial No. 151,064
In Sweden July 5, 1949
3 Claims. (Cl. 92—26)



1. An apparatus of the class described, comprising in combination, a container for receiving a mixture of waste paper and water, said container having a circular opening in its bottom, a blade wheel mounted for revolving in said opening, said blade wheel comprising a horizontal disc having plane upper and lower surfaces, a set of agitator blades on each of said surfaces and a set of guide vanes provided at the periphery of the upper surface of the disc, said upper surface of the disc being located on a lower level than the lower surface of the surrounding bottom to form a passage for horizontal flow therebetween, an annular pump casing secured to the lower surface of said bottom to surround the disc and the lower set of blades thereof, said pump casing having a suction channel in communication with said passage for receiving the horizontal flow therefrom and converting it into an upward flow towards the center of the lower set of blades of the blade wheel, said pump casing having also an annular pressure chamber in communication with the lower set of blades of the pump wheel at the periphery thereof.

2,655,841
MECHANISM FOR FREEING FLAPS AND CUTOUTS IN CARTON BLANKS
Russell William Annese, Middletown, Ohio, assignor to The Gardner Board and Carton Co., Middletown, Ohio, a corporation of Ohio
Application July 19, 1949, Serial No. 105,544
4 Claims. (Cl. 93—36)

1. In a device for treating carton blanks, a conveyor for moving carton blanks in timed sequence, a pair of shafts extending transverse said conveyor, one on either side thereof, and driven in timed sequence therewith, an operating element positioned on one of said shafts timed to coincide with a cut-out in carton blanks moving along said conveyor and perforated to deliver a blast of gas thereto, and a similarly positioned operating element on the other of said shafts having mechanically actuated gripping means for engaging and removing a cut-out deflected by said blast of gas, and means to deliver the said blast of gas through said perforated element.

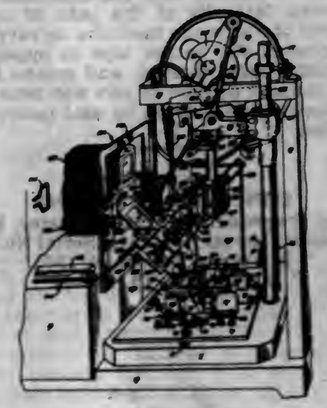


2,655,842
BLANK FORMING APPARATUS
John R. Baumgartner, Milwaukee, Wis.
Application August 18, 1950, Serial No. 180,221
4 Claims. (Cl. 93—36)



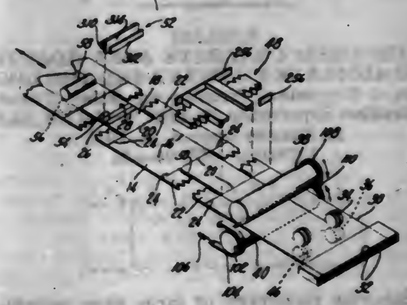
1. In a carton blank forming apparatus including a blanking press for cutting blanks of irregular side contour from a web of stock having side waste portions of irregular contour with part of said waste portions and part of the blank projecting respectively from opposite ends of the cut out part of the web, the combination of intermittently active means at the entrance end of the press engageable with the web, continuously active means at the exit end of the press for feeding the previously cut blank and its waste away from the press while the web is engaged by said intermittently active means to separate the blank and its waste from the web, and a pair of continuously active feed rolls separate from and spaced from said continuously active feed means in the direction of delivery at such a distance as to engage only the projecting part at one end of the separated part of the web while the projecting part at the other end of this separated part of the web is engaged with said continuously active feeding means, said feed rolls operating at a higher speed than said continuously active feeding means to produce a differential pull on the projecting portions of the separated part of said web to effect a lengthwise shearing action between the blank and its waste to strip said side waste from the blank itself, and means permitting the stripped waste to move in a different path vertically than that of the blank as said blank and its waste are delivered by said feed rolls.

2,655,843
FOLDING BOX MACHINE
Thomas R. Baker, Sunnyvale, and Frank M. Leflef, San Francisco, Calif., assignors to Bemis-Jason Machine Co., Inc., Redwood, Calif., a corporation of California
Application July 16, 1951, Serial No. 236,926
10 Claims. (Cl. 93—51)



1. A device for setting up folding boxes from flat box blanks, the device comprising, a main plunger; a main die having a die aperture through which said main plunger is movable; an auxiliary die in advance of said main die; a combined auxiliary plunger and feeder, including suction means for grasping a blank; a magazine having a withdrawal gate through which blanks are withdrawn; means for mounting said main plunger for straight line movement through said dies; means for supporting said auxiliary plunger on the side of the path of the main plunger with freedom of oscillatory movement about an axis angular with regard to the main plunger axis, into and out of the path of the main plunger and with freedom of translatory movement towards, and away from, said dies, and towards, and away from, said gate; and means for moving said main plunger and said auxiliary plunger in timed relationship.

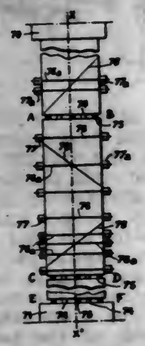
2,655,844
BOX BLANK FORMING MACHINE
George S. Sillars, Beverly, Mass., assignor to Hoague-Sprague Corporation, Lynn, Mass., a corporation of Massachusetts
Application March 1, 1949, Serial No. 79,852
7 Claims. (Cl. 93—58.3)



1. In a machine for forming box blanks from a web of blank material, means for feeding the web, cooperating punch and die assemblies, one

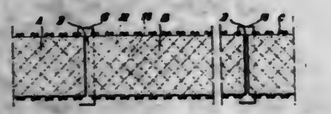
of said assemblies being movable toward and away from the other, said assemblies including cooperating punches and dies for simultaneously removing material from opposite sides of the web to form a pair of corner laps for each of two successive blanks, said punches and dies each including a pair of members relatively adjustable to vary the amount of material removed thereby, means mounting said punches and dies for adjustments laterally of the path of movement of the web through the machine to vary the distance between the corner laps at opposite sides of the blank being formed, and means for varying the amount of feed of the web between successive operations thereon by said punch and die assemblies.

2,655,845
CONCRETE PAVEMENT
Eugène Freyssinet, Neuilly-sur-Seine, France
Application February 28, 1946, Serial No. 650,814
In France August 14, 1945
4 Claims. (Cl. 94—8)



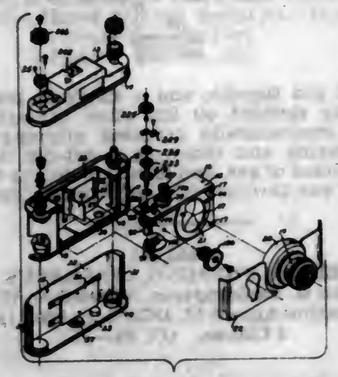
1. A concrete pavement comprising at least two consecutive separate sections having spaced, contiguous, angular edges, having a gap therebetween, spacing means in said gap for reducing friction between said adjacent edges on reverse displacements of both sections along the direction of said gap, and two devices, at least one of which is elastic, for applying simultaneous permanent compressive force on said pavement in two directions substantially at right angles to one another, said elastic device obliquely crossing said gap, and extending parallel to the surface of said pavement, said spacing means comprising a plurality of rollers interposed between the consecutive sections, and means supporting said rollers for rotation on axes substantially perpendicular to the pavement surface.

2,655,846
LARGE SIZED CONCRETE AREA ADAPTED FOR AIRPLANE RUNWAYS AND THE LIKE
Eugene Freyssinet, Neuilly-sur-Seine, France
Application September 23, 1948, Serial No. 50,814
In France August 14, 1945
1 Claim. (Cl. 94—8)



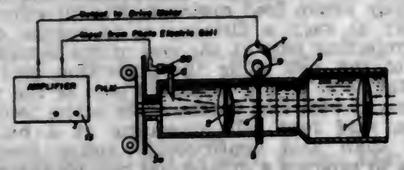
A concrete pavement of large area capable of carrying concentrated loads and in particular an air-strip for heavy aircraft, consisting of at least one rectangular slab, a primary series of parallel tensioned reinforcing rods embedded in said slab equally spaced, inclined to one side of rectangle, and a second series of parallel tensioned reinforcing rods embedded in said slabs, equally spaced and crossing the first series, the reinforcing rods of each set which approach the end edges of the slab being curved in the neighborhood of these latter edges and extended in a direction parallel to the other set, the ends of all rods being anchored on the opposite side edges of the slab.

2,655,847
AUTOMATIC FILM WINDING AND SHUTTER TENSIONING CONTROL CAMERA MECHANISM
James E. Harvey, Ann Arbor, Mich., assignor to Argus Cameras, Inc., Ann Arbor, Mich., a corporation of Michigan
Application April 15, 1948, Serial No. 21,284
24 Claims. (Cl. 95—31)



14. In a camera, a shutter, a coiled power spring, a shutter drive mechanism between one end of said spring and the shutter, a rotatable member coupled to the other end of said spring, a rotatable film winding member, a train of gears constantly drive connecting said film winding member and said rotatable member and means preventing rotation of said rotatable member except when said film winding member is turned in a selected direction.

2,655,848
AUTOMATICALLY CONTROLLED PHOTOELECTRIC IRIS
Howard A. Gray, Jr., Washington, D. C., assignor to the United States of America as represented by the Secretary of the Navy
Application February 9, 1950, Serial No. 143,211
7 Claims. (Cl. 95—64)



1. In a system and apparatus for automatically controlling the admission of light, an iris diaphragm, a photoelectric cell, a probe for deflecting a portion of the light passing through the diaphragm to said cell, an amplifier having a pentode vacuum tube input stage and at least a second vacuum tube amplifier stage, a split phase motor including an armature having a shaft, a control field and a motor field, said control field being connected to the output of said amplifier and said motor field being designed for connection to a service line, means connecting said shaft to said diaphragm, and a source of supply voltage connected in series between the grid of the pentode and the plate of the photoelectric cell the plate of said pentode and the cathode of said cell being connected together and their common junction being connected to the input of said amplifier so that the output voltage from the amplifier will be caused to lead or lag in phase the voltage from the service line in accordance with variations in the intensity of light reaching the cell, for controlling the direction of rotation of the motor shaft, whereby the aperture of the iris diaphragm will be maintained at optimum for given light conditions.

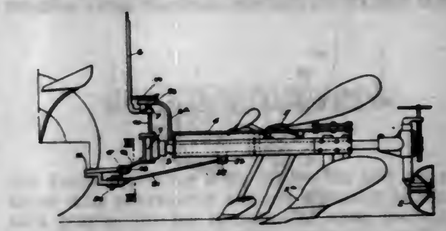
2,655,849
FILM HANGER RACK
William M. White and Roger P. Leavitt, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 19, 1950, Serial No. 185,658
4 Claims. (Cl. 95—100)



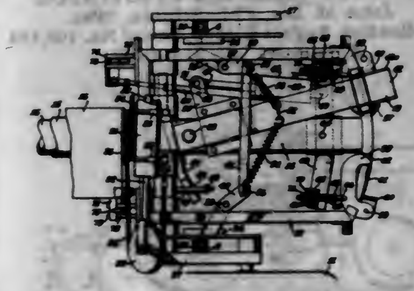
1. A film-hanger rack for supporting a plurality of separate film hangers each of which is formed with spaced side members and a top tie rod, and means for supporting said hangers from said tie rods, said means comprising in combination, blocks rigidly secured to the opposite ends of each tie rod, each block having a thickness greater than that of said hanger and being formed with an open end slot, a frame comprising spaced parallel side rails, means for connecting said rails, means on said rails engageable in said slots to connect said hangers in suspended relation to said rails, blocking members pivotally connected to said rails and movable to one position to permit said blocks to be positioned to receive said connecting means on said rails and movable to another position in the path of the blocks secured to said rails to prevent the removal of said blocks, and means for adjusting said blocking members longitudinally of said rails to move the blocks of said hangers into engaging relation to retain said hangers against movement relative to said frame, said blocks serving to space said hangers.

2,655,850
PLOW
Henri-Albert Bonnel, Le Neubourg, France
Application January 20, 1948, Serial No. 3,310
In France May 14, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires May 14, 1965
6 Claims. (Cl. 97—26)

1. A wheeled plough adapted to be supported at the front end by a tractor and at the rear end by a pair of wheels, comprising a plough frame, a pair of wheels independently carrying the rear end of said frame to transfer the weight of said frame to the rear part of said tractor thereby increasing the traction of said tractor, said pair of wheels being mounted to swivel both about a vertical axis and a horizontal axis running longitudinally with respect to said plough, a second frame for supporting a ploughshare, said second frame being mounted on said first frame for oscillation transversely thereabout, a pair of forwardly extending side arms attached to the front of said first frame, each said side arm having an elongated stirrup at the forward end thereof, a pair of rearwardly extending arms attached to the rear of said tractor, each said arm having a circular stirrup at the rear end thereof, and a cross bar passing through both said elongated stirrups and both said circular stirrups.



2,655,851
TWO-WAY PLOW CONSTRUCTION
Harry A. Pursche, Gardena, Calif.
Application August 8, 1949, Serial No. 109,990
17 Claims. (Cl. 97—26)



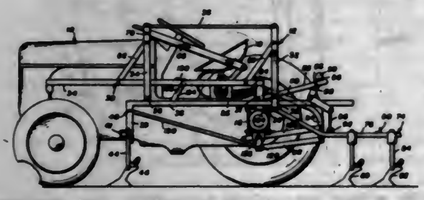
1. In a two way plow assembly, the combination of a frame having a stationary longitudinal beam extending from the rear thereof, a carrier turnably mounted on the beam and provided with a right hand plow and a left hand plow, arms pivotally mounted on the sides of the frame, a ground wheel carried on each arm, power means for swinging each arm for raising the frame relative to the ground wheels, a draft tongue, pivot means connecting the draft tongue to the frame, whereby the tongue may have substantially horizontal swinging movement relative to the frame, a pair of limit stop elements each mounted for substantially horizontal swinging movement relative to the frame, each stop element being movable from an inoperative retracted position to an operative projecting position overlying a portion of one of said arms, each stop element in projecting position acting to limit pivotal movement of one of the arms with respect to said frame, a power cylinder assembly operatively connected to swing the draft tongue to either of two positions, a tie bar operatively connected to said stop elements for retracting one while projecting the other and vice versa, and means operated by the tongue for shifting the tie bar.

2,655,852
TRACTOR-MOUNTED TWO-WAY PLOW
Ernest V. Bunting, Dearborn, Mich., assignor to Harry Ferguson, Inc., Dearborn, Mich., a corporation of Delaware
Application June 23, 1945, Serial No. 601,141
27 Claims. (Cl. 97—29)



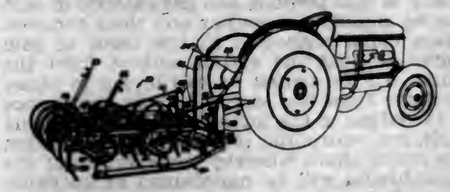
9. In an implement, the combination of a positionally adjustable element, a rotatable ratchet wheel drivingly connected to said element, a toggle linkage including a pair of toggle links pivotally connected end-to-end and spring stressed to snap through dead center in passing between alternatively available collapsed positions, and pawl means on the outer end of one of said links for advancing said ratchet wheel a step as an incident to each passage of said toggle linkage through dead center.

2,655,853
TRACTOR-MOUNTED CULTIVATOR
John M. Lee, Philadelphia, Miss.
Application August 8, 1949, Serial No. 109,164
4 Claims. (Cl. 97—46.07)



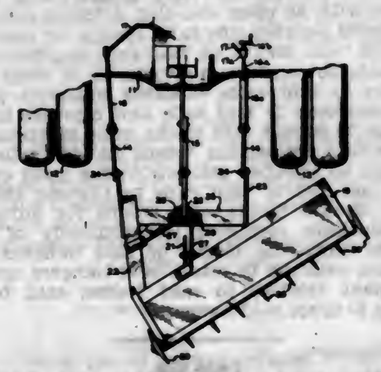
2. In a tractor having a pair of lift arms and a rear axle, a cultivator attachment comprising an elongated support disposed on each side of the tractor, said supports having forward ends secured to the forward end of the tractor and rear ends secured to the axle, a pair of tool-supporting side frames, forward and rear vertically swingable push bars pivotally attached to each support, forward and rear vertically swingable links pivoted to each frame, pitmans connecting said forward and rear links, said push bars being pivotally attached to said links, an operating arm pivotally attached to each lift arm and engaged with said forward links to selectively raise and lower said frames, rear tool-supporting frames disposed behind the tractor and pivoted to the rear ends of the side frames for vertical swinging movement into and out of working position, and means pivotally mounted on the side frames and connected to the rear frames and to the supports respectively to impart raising movement to the rear frames relative to the side frames during raising of the latter.

2,655,854
TRACTOR-MOUNTED IMPLEMENT
Frederick C. Warne, Mansfield, Ohio, assignor to Farm Tools, Inc., Mansfield, Ohio, a corporation of Indiana
Application June 12, 1944, Serial No. 539,850
10 Claims. (Cl. 97—46.07)



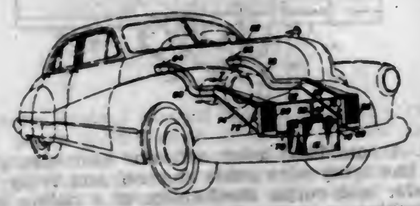
4. In a ground working implement, the combination of a generally horizontal frame having ground working means thereon, a transverse drawbar adjacent the front end of said frame, a plurality of upright members rigid with said drawbar and projecting upwardly therefrom, means on the upper end portions of certain ones of said upright members for pivotal attachment to the rear ends of vertically spaced power elevated links trailing from the rear end portion of a tractor at points above the drawbar, said certain ones of said upright members being susceptible of attachment in depending relation to said links, means pivotally connecting the forward end of said frame in trailed relation to said drawbar for fore and aft tilting movement with respect thereto, and a lost motion type tension transmitting connection between the rear portion of said frame and a portion of at least one of said upright members at a point on the latter located above the drawbar for effecting bodily lifting of said rear portion of the frame to transport position upon elevation of said drawbar.

2,655,855
MULTIPLE PURPOSE CULTIVATOR ATTACHMENT
Elmer H. Holden, Bethpage, N. Y.
Application July 14, 1949, Serial No. 104,741
1 Claim. (Cl. 97—47.44)



A plow attachment for a tractor having a three-point suspension system with an adjustable linkage comprising a frame secured at a forwardly diverging acute angle relative to the direction of movement of said tractor, a plurality of disks rotatably mounted in side-by-side relation below and attached to said frame, said disks forming a row of substantial width, a relatively short forwardly extending hitch bar secured to said frame between the ends thereof and attachable to one point of the suspension system rearwardly of the tractor and adjacent one wheel thereof with at least the foremost disk of said row of disks outwardly of the tread of the said adjacent wheel of the tractor, a second transversely spaced forwardly extending hitch bar secured to said frame and being of appreciably greater length than said first bar and attachable to a second point of the suspension system adjacent another wheel of the tractor, and vertically spaced means for attachment of the frame to another point of the suspension system, and a coulter wheel mounted on the frame substantially vertically spaced below the said last mentioned attachment point for engagement with the ground for limiting lateral movement of said disk plow.

2,655,856
AIR CONDITIONER FOR MOTOR VEHICLES
Stacy R. Hart, Littlefield, Tex., assignor of ten per cent to Robert L. Kirk, Littlefield, Tex.
Application January 25, 1949, Serial No. 72,566
2 Claims. (Cl. 98—2)



1. In a vehicle, an air conditioning unit, said unit comprising a tank including means for detachably securing the same on the front of the vehicle, a pair of liquid retaining housing members each having forward and rear walls, each of said forward and rear walls having an elongated opening therein, an absorbent material in each of said housing members adapted to receive liquid, a pump unit supported by said tank for impelling water into the housing members and including an outlet, a vertical conduit extending upwardly from the tank and having a lower end connected to the outlet of said pump unit, said housing members below said openings being imperforate and forming sumps, a pair of horizontal conduits connected at their ends to the sump forming portions of said housing members and to the tank well above the bottom wall of said tank, whereby an excess amount of water collected by said housing members may drain back into said tank, an upper pair of horizontal conduits connected at their ends to the upper end of said vertical conduit and to the upper portions of said housing members, said horizontal and vertical conduits constituting means supporting said housing members relative to said tank, and a pair of elongated side by side conduits extending rearwardly from said housing members and into the interior of the vehicle and having forward ends removably secured to the housing members in registry with the openings in the rear walls of the housing members.

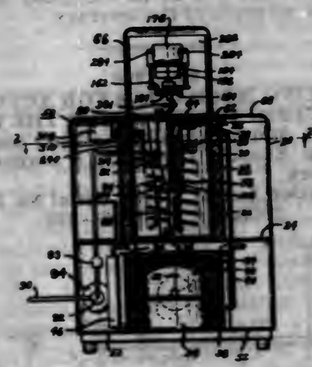
2,655,857
AIR SUPPLY GRILL
Georg Karl Johan Broberg, Solna, Sweden, assignor to AB Svenska Fläktfabriken, Stockholm, Sweden
Application August 17, 1949, Serial No. 110,857
In Sweden August 25, 1948
5 Claims. (Cl. 98—40)

1. A grill construction comprising a frame having a wall defining an opening therein, a plurality of members of generally U-cross-sectional shape mounted in said frame in parallel spaced relation across the opening therein, said U-shaped members each comprising a curvilinear base portion and a pair of plane leg portions extending perpendicular to the direction of parallel spacing of the members and spanning the opening between the frame wall with said leg portions extending from the base portion outwardly through



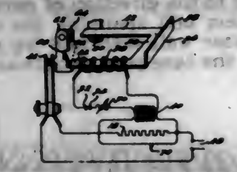
the frame opening with their free end edge portions only projecting a short distance beyond the said frame, the leg portions of each member being slightly divergent with respect to each other outwardly from the base portion, and said divergent leg portions defining with the leg portions of adjacent members and the intermediate frame wall tubular discharge passages which are convergent outwardly.

2,655,858
BEVERAGE DISPENSING APPARATUS
Halley H. Hamlin, Cortland, N. Y.
Application June 16, 1948, Serial No. 33,327
18 Claims. (Cl. 99—275)



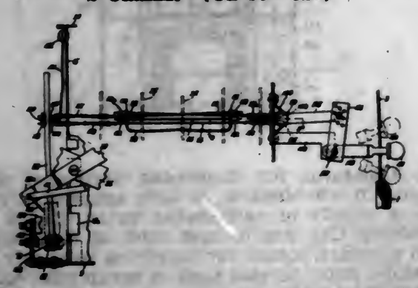
1. Apparatus for dispensing beverages comprising in combination, a tank adapted to contain a supply of carbonated water, means for supplying CO_2 gas to said tank at a relatively high pressure, means for supplying relatively low pressure water to said tank, a syrup reservoir, a dispensing nozzle, pump means, connections between said pump means and said carbonated water tank and between said pump means and said syrup supply, and between said pump means and said dispensing nozzle, said high pressure carbonated water and low pressure water cooperating to operate impeller surfaces in said pump means during a first portion of its cycle of operation to measure predetermined quantities of syrup and carbonated water and during a second portion of its cycle to discharge said measured quantities through said nozzle, means for utilizing said relatively high pressure carbonated water for operating said pump means during said first portion of its cycle, and means for utilizing said relatively low pressure water for operating said pump means during said second portion of its cycle.

2,655,859
AUTOMATIC COFFEE MAKER
Rupert R. Bell, Ann Arbor, Mich.
Application May 14, 1947, Serial No. 747,939
7 Claims. (Cl. 99—281)



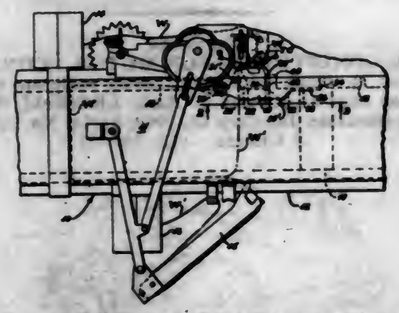
1. In a control for a beverage brewing device having means actuatable upon energization to increase the brew strength of the beverage, regulating means operable to de-energize such strength increasing means to including a bimetallic unit having a first portion responsive to the temperature of the beverage and having a second temperature responsive portion, said regulating means being operable in accordance with the conjoint action of said portions, an electric heating element for heating said second portion, a pair of electrodes adapted to be positioned in the beverage, an electric control circuit including said element and said electrodes whereby current flowing between said electrodes will enable said element to heat said unit second portion, said first portion being effective to adjust the temperature to which said second portion must be raised to cause said regulating means to de-energize said strength means whereby said strength means will be de-energized at the desired brew strength of the beverage.

2,655,860
ACTUATING MECHANISM FOR AUTOMATIC ELECTRIC TOASTERS AND THE LIKE
Archie E. Smith, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application August 1, 1951, Serial No. 239,774
2 Claims. (Cl. 99—329)



1. In an automatic electric toaster having a toaster frame, means including heating units on the toaster frame which defines a toasting chamber, and a carriage in the toasting chamber movable between non-toasting and toasting positions, mechanism responsive to surface temperature of a slice of bread being toasted for effecting movement of the carriage from toasting to non-toasting position comprising a U-shaped spring frame, two expansible wires on which said spring frame is supported, said wires and spring frame being positioned in said toasting chamber, a rod, a yielding pivot for the rod carried by the toaster frame, an adjustable support on the toaster frame, means connecting one of said expansible wires to said rod on one side of said pivot and to said adjustable support, means connecting the other of said expansible wires to the arms of said U-shaped frame, a non-expansible wire connecting one of said U-shaped arms to said rod on the other side of said pivot, and a non-expansible wire connecting the other arm of said U-shaped frame to said adjustable support.

2,655,861
WEED DEFLECTOR AND TYING WIRE GUIDE FOR BALING PRESSES
Randel Earl Lisenbee, Advance, Mo.
Application July 29, 1952, Serial No. 301,540
7 Claims. (Cl. 100—19)

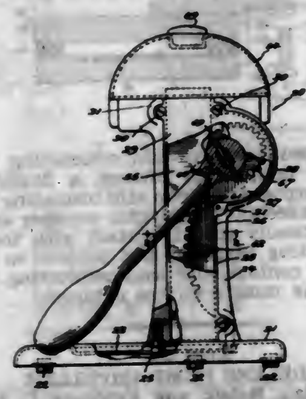


5. A combined weed deflector and wire guide for the tying wire guide channel and tying wire twister and cutter mechanism of a baling press comprising a pair of vertically disposed spaced apart elongated members adapted to be mounted adjacent the side walls of a wire guide channel and protrude downwardly beyond the lower portions of said walls, said elongated side members having their bottom edges adjacent a first end extending upwardly at a gradual incline to the end of the members which extend substantially vertical, one of said members adjacent said first end having an upwardly extending lug portion that is apertured to receive a mounting bolt, a first transverse member connecting said first ends which extend substantially vertical, a transverse shoe member fixed to the inclined lower edges of said side members proximal to said first transverse member and adapted to guide a tying wire positioned thereagainst, the second end of said side members being inclined upwardly toward that second end from the bottom edge to the top edge thereof, and a third transverse member connecting said second ends of the side members and having an outwardly extending portion extending in a substantially horizontal direction beyond said second ends of the side members and in alignment with the top edges thereof, said horizontally extending portion of the third transverse member having an upwardly extending flange at the extreme end thereof, and said horizontal portion of the third member being apertured to receive a securing bolt.

2,655,862
FRUIT JUICE EXTRACTOR
Jacob Jud Mitnick, Chicago, Ill.
Application July 17, 1948, Serial No. 39,242
2 Claims. (Cl. 100—288)

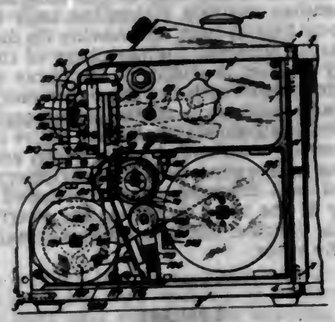
1. In a juice extractor of the character described, which includes a fruit supporting member having means therein to permit the juice to be drained from the member, and a movable member adapted to be moved relative to the supporting member for expressing juice from a fruit supported in the latter member, a base having

thereon a pair of columns, each having an elongate rack slideway therein, a rack disposed in each slideway and adapted to be reciprocated therein, each rack having teeth positioned in reverse curves along one edge thereof, said columns having cavities at one side thereof opposite said teeth, operating mechanism including a rotatable shaft and an actuating handle, said shaft having



portions thereof located in the respective cavities, gears eccentrically mounted on said shaft and having portions thereof disposed within the respective cavities in one stage of rotation of the shaft, and in another stage of rotation of the shaft having a portion of the teeth of said gears disposed outside of the respective cavities, all of said gear teeth being adapted to engage the teeth of the respective racks.

2,655,863
TICKET CONTROL APPARATUS
Rolf Hefer, Kusnacht (Zurich), Switzerland
Application June 24, 1949, Serial No. 101,157
In Switzerland October 14, 1948
6 Claims. (Cl. 101—69)
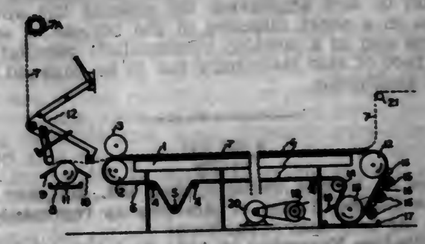


6. Apparatus for controlling tickets being issued comprising a casing, means in said casing for severing a stub from the ticket to be issued, a continuous tape adapted to pass beneath said stub severing means, means for successively attaching the severed stubs to said tape to obtain a record of the tickets having been issued, means including a driving cylinder for intermittently advancing said tape, means for simultaneously apposing the date of issue on the ticket being issued, a common driving member operative for actuating said stub severing means, said stub attaching means, said tape advancing means and said date apposing means, an electromagnet operatively connected to said driving member, an electric circuit therefor, contact means adapted to be actuated by a ticket inserted into the apparatus to close said circuit and energize the electromagnet, a supply roll for said tape, a receiving roll for winding up said record of issued tickets, a box removably mounted within said casing and carrying said tape supply roll, said driving cylinder and said receiving roll, said box forming a chamber in which are mounted the driving cylinder and the receiving roll, means for locking said box to render the record of the issued tickets inaccessible to the person issuing the tickets, a locking member operative to prevent actuation of said common driving member and of said contact means when said box is removed from said casing, and means coacting with said locking member and said box for moving the locking means to release said driving member and said contact means when the box is mounted within the casing.

2,655,864
METHOD OF MAKING PLANOGRAPHIC PLATES
Douglas A. Newman, Port Washington, N. Y., assignor to Columbia Ribbon and Carbon Manufacturing Company, Inc., Glen Cove, N. Y., a corporation of New York
No Drawing. Application December 22, 1945, Serial No. 637,063
5 Claims. (Cl. 101—149.2)

5. In the art of planographic printing, the process of preparing a master which comprises coating the surface of a paper foundation with a composition comprising an aqueous solution of a water-soluble carboxymethyl cellulose compound, and colloidal clay suspended therein as a filler; drying the resulting coating, the amount of said composition being such as to yield a dry coating of about 4 lbs. per ream of 24" x 38" sheets; repeating the foregoing coating and drying operations so as to form a coating of about 8 to 9 lbs. per ream of 24" x 38" sheets; treating said coating with an aqueous solution of metal compounds consisting essentially of copper sulphate, aluminum sulphate, ferric chloride and chromium trioxide in the ratio by weight of about 6:2:1:1 respectively; and forming an ink-receptive, water-repellent image on the surface of the resulting coating.

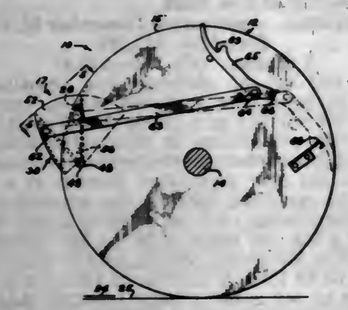
2,655,865
APPARATUS FOR AFFIXING FABRIC TO PRINTING TABLES
Walter Geiringer, Potts Point, near Sydney, New South Wales, Australia
Application December 17, 1947, Serial No. 792,121
In Australia December 24, 1946
4 Claims. (Cl. 101—407)



1. Apparatus for printing textiles and the like comprising a table, an endless blanket mounted thereon so that the upper portion thereof trav-

erses the top of said table from end to end and returns on the underside thereof; a gumming roller spaced from the receiving end of said blanket and dipping into a gum bath on its underside, means for passing material to be printed over said roller for the application of gum to the underface of the material prior to passage of the material to the said blanket; a pressure roller positioned at the receiving end of said blanket to contact the said material on its ungummed side to press the gummed side into contact with the said blanket so as to cause adhesion of the said material thereto while the blanket is traversed over the said table; and a tensioning device cooperating with the gumming roller and the material to regulate the tension of the material and thereby to regulate the amount of gum applied to the said material.

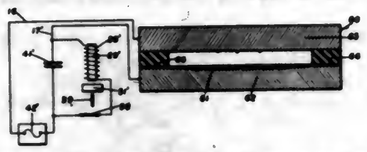
2,655,866
STENCIL CLAMPING DEVICE FOR DUPLICATING MACHINES
John W. Linsley, Jr., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application February 8, 1950, Serial No. 142,976
7 Claims. (Cl. 101—415.1)



1. A device for clamping a sheet having a plurality of apertures adjacent one end thereof to a drum comprising a drum having a cylindrical surface for supporting said sheet, a stationary jaw on said drum extending inwardly from said cylindrical surface, an oscillatable jaw mounted on said drum and engageable with said stationary jaw to grip said sheet therebetween, a plurality of abutments on said stationary jaw adapted to engage said sheet in the apertures therein to align the sheet on the drum, and means mounted on said drum for rotation therewith for moving said oscillatable jaw to and from closed and open positions, said jaws having substantially flat surfaces which, when the oscillatable jaw is in open position, forms a V-shaped recess in said drum having a bottom in predetermined relation to said abutments for causing the apertures in a sheet disposed in the bottom of said recess and in a position substantially parallel to the face of said stationary jaw to be engaged by said abutments.

2,655,867
FUZE
James D. Jordan, Silver Spring, Md., assignor to the United States of America as represented by the Secretary of the Navy
Application November 30, 1945, Serial No. 631,951
5 Claims. (Cl. 102—70.2)

1. In a fuze for an explosive missile having an inertia-actuated electrical energy generating means, an electrical energy storage means, and an igniter for setting off an explosive charge in response to actuation by said electrical energy, a switch serving to complete a closed circuit between said storage means and said igniter, said switch comprising a first conducting member and a second conducting member, an insulating mem-



ber interposed between said conducting members at the peripheries thereof, a flexible foil member interposed between said insulating member and said second conducting member and remaining normally out of contact with the said first conducting member, but subject to being thrown into contact with said conducting member when the missile strikes a target.

2,655,868
BLADELESS PUMP IMPELLER
Fred I. Lindau, Beloit, and Robinson C. Glasebrook, Turtle Ridge, Wis., assignors to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application September 8, 1947, Serial No. 772,610
3 Claims. (Cl. 103—103)

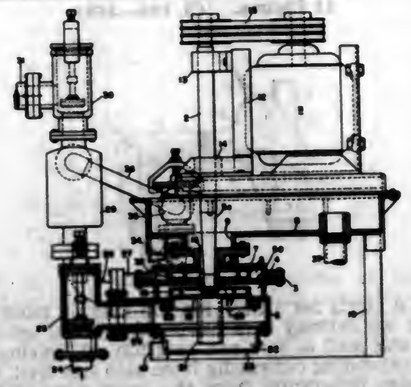


1. A rotor for centrifugal pumps, comprising a unitary rotor body having a circular periphery and a single helical passage having its inlet end opening axially of the body at one side, said passage extending entirely within the body through at least one helical turn and having its discharge end inwardly adjacent the periphery of the body, said body further providing a discharge channel in communication with the discharge end of said passage and extending in the periphery of the body throughout substantially the entire circular extent thereof, with the channel depth gradually decreasing to mergence with the periphery of the body, and said channel being positioned in the periphery of the body such that the longitudinal axis of the channel lies in a plane normal to the axis of the rotor.

2,655,869
PUMP
Daniel Murphy, New Castle, Pa.
Application May 9, 1947, Serial No. 746,909
9 Claims. (Cl. 103—105)

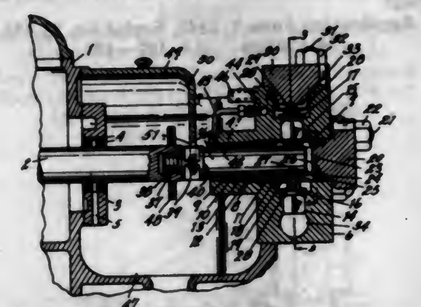
1. A pump comprising a pump body including an impeller chamber having an inlet passage and an outlet, a rotary impeller in said chamber for propelling liquid, a drive shaft extending downwardly from above said chamber and engaging said impeller through an opening in the wall of said chamber and rotatably supporting the impeller in said chamber, with a peripheral space between the shaft and the periphery of said opening, bearing means for said shaft, the bearing means for said shaft being mounted above

said opening and out of contact with the liquid being propelled, a delivery line extending from said outlet to an elevation above said impeller chamber, means including an outlet passage for discharging into said delivery line, at a point above said impeller chamber, the liquid leaking



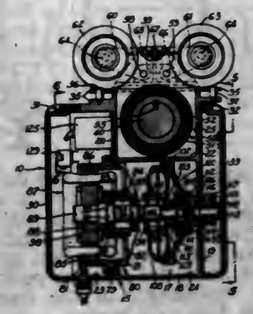
through said peripheral space from said impeller chamber when the pump is in operation, and a check valve in said outlet passage adapted to close against backflow in said outlet passage and to open when there is backflow from said delivery line to said impeller chamber.

2,655,870
RECIPROCATING PUMP FOR FOOD MATERIALS
Reinhard A. Yohpe, Battle Creek, Mich., assignor to Union Steam Pump Company, Battle Creek, Mich., a corporation of Michigan
Application October 22, 1947, Serial No. 781,420
15 Claims. (Cl. 103—153)



1. In a pump having a cylinder block provided with a cylinder bore opening therethrough and having inlet and outlet ports opening laterally to the sides of the bore, the combination of a packing throat disposed within the cylinder bore at its inner end and removable through its outer end, a cylinder sleeve disposed within said bore and removable through the outer end thereof, said sleeve having holes formed therein registering with said ports, a packing arranged between the adjacent ends of said packing throat and cylinder sleeve, a closure for the outer end of said cylinder bore having a portion fitting therein and having a portion of reduced diameter at its inner end projecting into the outer end of the cylinder sleeve with a shoulder opposed to the outer end of the cylinder sleeve, the reduced portion of said closure and said cylinder sleeve having co-engaging parts preventing relative rotative movement between the sleeve and the closure, means nonrotatably clamping said closure to said block, and a packing disposed between the outer end of said cylinder sleeve and said shoulder on said closure.

2,655,871
TRACTOR
Ambrose Mazzola, Southgate, Calif., assignor to Angelus Engineering Corporation, Maywood, Calif., a corporation of California
Application July 16, 1949, Serial No. 105,193
7 Claims. (Cl. 105—30)

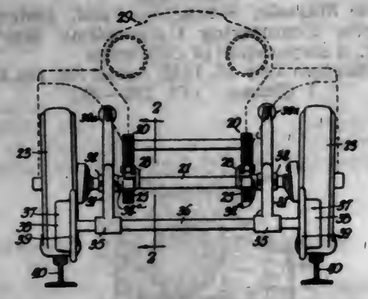


1. A tractor adapted for movement along a track, comprising: a one-piece housing having a bottom wall, side walls, an end wall, a vertical partition in said housing provided with an opening, and an open end; wheel means carried by said housing and engaging opposite sides of the track to adapt said housing to travel therealong; and a power transmission means within said housing for driving at least one of said wheel means, said transmission means including a driving element, a fluid-actuated coupling for operating said element, an electric motor for actuating said coupling, said coupling having a drive shaft rotatable in said end wall, and a mounting member detachably secured to said partition within said opening thereof and supporting said motor, the portions of said transmission means between said partition and end wall being of less transverse dimensions than said opening whereby said transmission is insertable as a unit into said housing through said open end thereof.

2,655,872
VEHICLE STRUCTURE
Herbert W. Templeton, Detroit, Mich., assignor to Fairmont Railway Motors, Inc., Fairmont, Minn., a corporation of Minnesota
Application November 9, 1948, Serial No. 59,159
12 Claims. (Cl. 105—215)

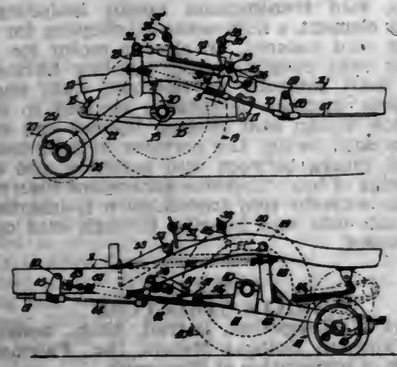
1. A vehicle for travel on railroad rails including a vehicle frame, transverse axle means, spring means supporting the frame upon the axle means, vehicle wheels mounted on opposite ends of the axle means, rigid guide supporting levers having end portions and being pivotally supported on said axle means intermediate said end portions, guides carried by one end portion of said levers and having vertical lateral reaction portions, means for rotating said levers about the axle means for raising the guides from and lowering them to normal operative guiding position with said reaction portions adjacent and extending below the top of the rail head but normally laterally of and out of contact with the rails, said

rotating means being pivotally connected to the frame and to the other end portions of said levers at spaced pivotal points and being operative to vary the spacing of said points when lowering the guides to said guiding position and to unyieldably oppose rotation of said levers responsive to any lifting thrust exerted on the guides in the event the lateral reaction portions be shifted



laterally into engagement with the rail, the relative positions of said pivotal points and of the pivotal connection of said levers with said axle means and the position of the guides on said levers being correlated to maintain substantially unchanged the operative guiding position of the guides during movements of the frame toward and away from said axle means.

2,655,873
RAILWAY MOTOR VEHICLE
Neil J. McDonald, Fairmont, Minn., assignor to Fairmont Railway Motors, Inc., Fairmont, Minn., a corporation of Minnesota
Application April 5, 1951, Serial No. 219,460
17 Claims. (Cl. 105—215)



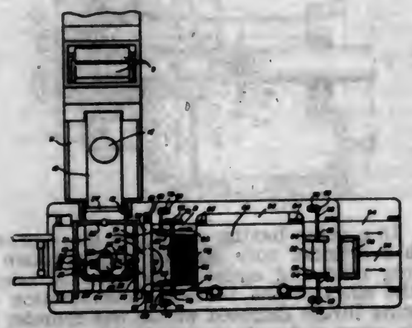
1. A rail and highway vehicle having a rigid longitudinal body frame, front and rear transverse axles carrying flangeless wheels, springs supporting said frame upon said axles, front and rear retractable axles carrying flanged guide wheels, means for pivotally connecting said front and rear retractable axles respectively with the front and rear vehicle axles and with said body frame, retracting means for lowering said retractable axles to position the guide wheels in guiding position at a predetermined level relatively to the vehicle axles and for raising them therefrom, and means controlled by longitudinal tilting movement of the frame relatively to the vehicle axles for maintaining the front guide wheels at said predetermined level during said relative movements of the frame.

2,655,874
LADING BAND ANCHOR
James S. Swann, Homewood, Ill., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application October 29, 1949, Serial No. 124,345
11 Claims. (Cl. 105—369)



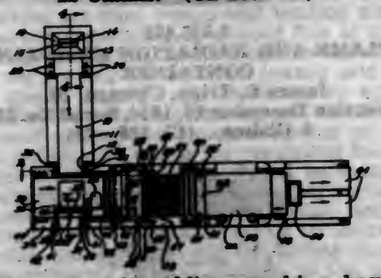
1. A clevis for a high tension loading band for open top railway cars having a top rail secured to a side wall of said car, said top rail having an arm extending outwardly from said side wall, and a flange depending from the outer edge of said arm, said clevis comprising a channel-shaped structure adapted to be slidingly secured to said top rail, one flange of said structure being formed as to underlap the lower edge of said rail flange, the other flange of said structure adapted to overlap the inner edge of said arm so as to be normally non-removable therefrom, and a part around which a load retaining band is adapted to encircle.

2,655,875
DEFLECTING, GUIDING, AND SIZING MEANS FOR LOAF MOLDING MECHANISMS
John E. Mohr, Springfield, Ill., and Merlin A. Stickelber, Kansas City, Mo., assignors to Stickelber & Sons, Inc., a corporation of Missouri
Application June 7, 1948, Serial No. 31,476
20 Claims. (Cl. 107—13)



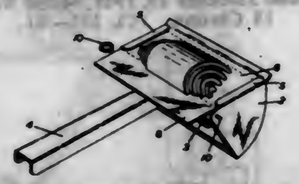
1. In a molding machine, loaf forming means comprising a conveyor belt, means for feeding sheeted pieces of dough to said conveyor belt from one side thereof comprising means for projecting said pieces of dough crosswise of said conveyor belt, and means for deflecting said pieces of dough toward the surface of said belt and halting said pieces of dough in their travel crosswise of said belt at a predetermined location transversely of said belt comprising a belt mounted above said conveyor belt and means for moving the lower run thereof in the same direction as said conveyor belt.

2,655,876
LOAF MOLDING MACHINE
Merlin A. Stickelber, Kansas City, Mo., assignor to Stickelber & Sons, Inc., a corporation of Missouri
Application August 21, 1950, Serial No. 180,516
12 Claims. (Cl. 107—12)



12. In a bread molding machine having a sheeting mechanism and a curling conveyor belt, means for feeding sheeted dough pieces from said sheeting mechanism to said curling conveyor belt, comprising belt conveying means traveling in the same direction as said curling conveyor belt, means discharging sheeted dough pieces onto said conveying means from said sheeting mechanism in a path transverse to the direction of movement of said conveying means, stop means located between the marginal edges of said conveying means and extending across said path to definitely locate the sheeted dough pieces discharged onto said conveying means between the side edges thereof, said sheeted dough pieces being thickened adjacent the edge thereof engaging said stop means by engagement with said stop means, and means for reshaping said sheeted dough pieces to a uniform thickness located between said conveying means and said curling conveyor belt.

2,655,877
APPARATUS FOR FORMING SHAPED OBJECTS FROM PLASTIC MATERIAL
Jean Jean Wilson, Bournemouth, England
Application April 6, 1951, Serial No. 219,707
In Great Britain June 14, 1950
6 Claims. (Cl. 107—47)



1. A kitchen implement for forming shaped objects from edible plastic material comprising a body part, including an arcuate side wall and sector-shaped end walls attached thereto and a cross member connecting the free ends of said end walls, a perforate wall extending substantially radially of said arcuate body wall, a plate pivotally mounted substantially along the axis of said arcuate wall under said perforate wall, a handle attached to said body cross member and extending substantially in the plane of said perforate wall whereby said perforate wall may be maintained substantially horizontal and a lever pivotally mounted at one end to said pivoted plate, the other end of said lever being free and adapted to be moved longitudinally of the handle to cause arcuate movement of said plate in material extruding direction.

2,655,878
ROOF STRUCTURE
MacMillan Clements, Bethel, Conn.
Application January 4, 1951, Serial No. 204,439
3 Claims. (Cl. 108—1)



1. A roof structure comprising a plurality of roof panels, a beam, said beam having a top portion provided with upper flat surfaces adjacent the side edges thereof and terminating with inwardly inclined surfaces merging into a central trough, each of said panels having a metallic outer skin and an under layer of rigid non-metallic material, each of said panels having a groove in the under layer spaced from one of the side edges thereof to provide an end portion bent to the desired angle to conform to the inclination of one of the inclined sides of said top beam portion and a main panel portion, said portions being separated from each other by said groove, the said non-metallic under layer of each end portion of each panel being in face-to-face contact with one of said beam inclined portions and one of said beam flat portions being in face-to-face contact with the non-metallic surface of said main portion which lies adjacent to said panel groove, the side juxtaposed edges of a pair of said panels facing each other, each facing edge being composed of a layer of said metallic skin material and a layer of said rigid non-metallic material, and means for attaching said panels to said beam.

2,655,879
ROOF SHINGLING STRIP
Henry A. Lee, Montevideo, Minn.
Application December 17, 1951, Serial No. 262,094
1 Claim. (Cl. 108—7)



A serrulated roofing strip for shingling a roof or the like comprising a flexible strip of composition material, said strip being of elongate form and embodying a nailable body portion having a linearly straight lengthwise edge, a lengthwise weather-edge serrated and providing V-shaped serrations, and transverse edge portions at right angles to said straight edge, one endmost serration having a straight marginal edge substantially parallel with the adjacent transverse edge portion and spaced inwardly and joining said transverse edge portion by way of a complemental obliquely disposed edge portion whereby said one serration is thus inwardly offset relative to said transverse edge portion, and the other endmost serration having a straight marginal edge parallel with but situated outwardly beyond the adjacent transverse edge portion and joining the latter edge portion by way of an obliquely disposed complemental edge portion, whereby said last named endmost serration is outwardly offset relative to its complemental

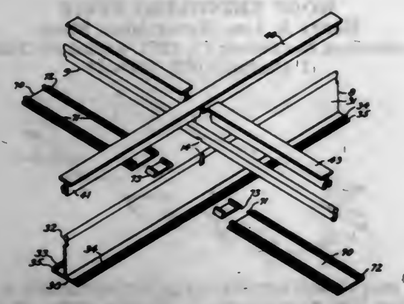
transverse edge portion, said obliquely disposed edge portions each being of the same length and of corresponding obliquities relative to their respective transverse edge portions.

2,655,880
ROOFING SHINGLE
Paul MacDonald, Lake Forest, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application January 23, 1952, Serial No. 267,760
4 Claims. (Cl. 108—7)



1. A multiple shingle strip comprising a sheet of flexible material having a substantially uninterrupted straight edge on one side thereof and a plurality of parallel edges on the other side on a bias to said uninterrupted edge, said biased edges being adapted to form the exposed edge of an individual shingle, a projecting lock member formed at an extremity of each of said biased edges, and an edge perpendicular to each of said biased edges and adjacent each of the lock members to define an individual shingle lateral boundary, and a slot extending inwardly and perpendicularly from each of said biased edges for receiving one of the lock members.

2,655,881
GRID CONSTRUCTION FOR ROOFLIGHT
George H. Lenke, Elmhurst, Ill., assignor of one-half to Julius J. Ohlis, Oak Park, Ill.
Application December 30, 1949, Serial No. 135,853
2 Claims. (Cl. 108—16)



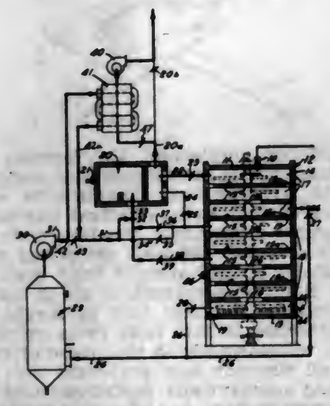
1. A rooflight comprising frame members having a common bottom plane, base flanges arranged in spaced parallelism between and connecting two opposed frame members at the bottoms of the latter, plates in spaced parallelism disposed between and connecting other frame members at the bottoms thereof and disposed at substantially right angles to said base flanges to provide a plurality of light transmitting cells, glazing blocks supported by said flanges and plates in spaced relationship in said cells, a main rib rising from each of said base flanges in the spaces between blocks, a finishing strip disposed in substantially the same plane with the upper faces of said blocks overlying each of said base flanges and connected to said ribs, a secondary member overlying and spaced a substantial distance above each of said plates and connecting said frame and rib members, and a finishing strip disposed in substantially the same plane with the said upper faces of said blocks overlying each of said plates and connected to said secondary members, the spaces between said plates and said secondary members adapted to receive insulating bonding material for anchoring said blocks and said secondary members and finishing strips.

2,655,882
FLAME AND RADIATION RESISTANT CONTAINER
James E. Tripp, Chicago, Ill.
Application December 28, 1950, Serial No. 203,109
2 Claims. (Cl. 109—79)



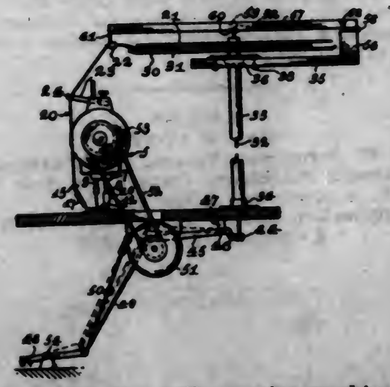
1. A fire and radioactivity resistant container comprising side, bottom and top panels, each of said panels being formed from alternate layers of heat resistant material and a metal capable of shielding against harmful radiation, said side and bottom panels being mitred along contiguous edges of said panels so that said shielding metal is in abutting relationship at the contiguous edges of said panels, and said top panel being reinforced along the edges thereof by reinforcing elements having downward extending legs in lapping relationship with respect to said side panels, said shielding metal of said top panel extending beyond the edges of the heat resistant material of said top panel and being turned down and embraced by said downward extending legs to provide for shielding across the parting line between said top panel and said side panels.

2,655,883
APPARATUS FOR HEAT TREATMENT OF SEWAGE SLUDGE AND METHOD ADAPTED TO BE CARRIED OUT THEREIN
Warren S. Martin, Massapequa, N. Y.
Application January 19, 1949, Serial No. 71,614
13 Claims. (Cl. 110—8)



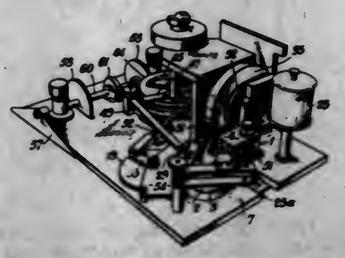
12. Apparatus adapted to effect drying in two stages and to effect drying and incineration in two stages, comprising a multiple hearth heating unit having a top, a bottom and hearths therebetween dividing the unit into compartments, said top, hearths and bottom being provided alternately from top to bottom with central and peripheral passages for downward flow of material, and an intermediate hearth having a gas seal for each peripheral passage to divide the unit into an upper section and a lower section having air inlet means and heating means, said gas seal permitting downward flow of material while preventing flow of gas therethrough, means for feeding the material toward said passages, and a scrubber, in combination with a combustion chamber for heating and deodorizing gases, said combustion chamber having an inlet and an outlet, and means for regulating the flow of gases from the apparatus and between the aforesaid elements to utilize the upper section of said heating unit as a heating section and the lower section as either a drying or an incinerating section comprising ducts connecting the lower compartments of said sections to the scrubber, ducts connecting said scrubber to said combustion chamber and to an upper compartment of said lower section to conduct scrubbed gases thereto, ducts connecting upper compartments of said second section to the inlet of said combustion chamber, ducts connecting outlets of said combustion chamber to the upper compartments of said sections, and valves in said ducts.

2,655,884
APPARATUS FOR AUTOMATICALLY FEEDING AND STITCHING SLIDE FASTENER STRINGERS TO GARMENT FLY PIECES
Michael King Rohrlick and Jean Eleanor Rohrlick, Montreal, Quebec, Canada
Original application June 8, 1950, Serial No. 166,814, now Patent No. 2,574,251, dated November 6, 1951. Divided and this application September 14, 1951, Serial No. 246,688
12 Claims. (Cl. 112—3)



1. In combination with a sewing machine having a working bed and mechanism operable for stitching and feeding work together along the working bed, a vertically arranged reel supporting spindle mounted for vertical movement, a reel rotatably mounted about the axis of said spindle, and vertically movable therewith, a brake mechanism positioned adjacent said reel, spindle actuating means operable to cause vertical movement of said spindle to move said reel into and out of braking pressure relation with said brake mechanism for stopping and starting the reel, means to lead material from the reel to the feeding and stitching mechanism, driving means for said stitching and feeding mechanism, control means for said driving means, and means controlled by said control means to operate said spindle actuating means so as to move said spindle vertically to engage and disengage the brake mechanism as said driving means are rendered inoperative and operative, respectively, said reel being rotatable independently of said driving means.

2,655,885
SEWING MACHINE
Wladyslaw Kostro, Kensington, London, England, assignor of one-half to Stanislaw Jozwiak, London, England; Roman Dabrowski, executor of said Wladyslaw Kostro, deceased
Application July 11, 1951, Serial No. 236,117
In Great Britain October 18, 1949
2 Claims. (Cl. 112—7)

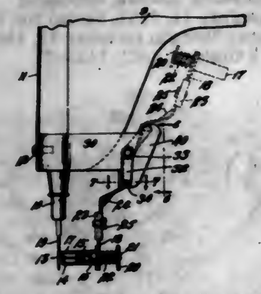


1. A sewing machine for sewing together abutting edges of material such as strips of carpet, comprising a semi-circular hollow needle which is pointed at its outer end and formed with an eye adjacent to the point through which the thread leaves the needle after passing therethrough from a source of supply, means for supporting and oscillating the needle in a vertical plane transversely to the direction of travel of the machine, a base, said base having an opening through which the needle can move and penetrate the edges of both the materials to be sewn together, a bobbin casing supported in a horizontal plane alongside the needle at one side of the edges to be joined together, means for imparting oscillatory movement to the bobbin, means on the bobbin casing for catching a loop in the needle thread after the needle emerges from that surface of the material at which the needle entered to loop the thread from the needle about a thread emerging from the bobbin in said casing for stitch formation, a skid carried by the base at the rear thereof, vertically disposed wheels carried by a shaft on said base and extending through slots in the base and said skid to contact the surface of a workpiece, a one-way drive mechanism fitted to said shaft, and means for automatically actuating said one-way drive at the end of a stitch forming operation to effect intermittent movement of the machine between stitch forming operations.

2,655,886
MACHINE ATTACHED NEEDLE THREADER
Max Ingwer, Kew Gardens Hills, N. Y., assignor to Consolidated Sewing Machine & Supply Co., Inc., New York, N. Y., a corporation of New York
Application February 25, 1950, Serial No. 146,233
1 Claim. (Cl. 112—225)

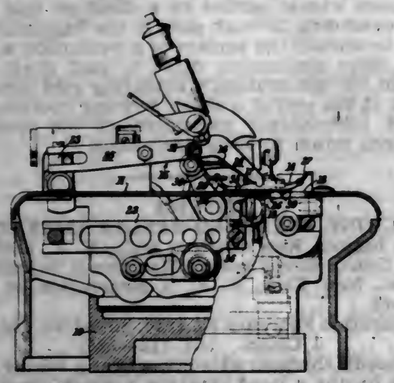
A needle threader attachment for a sewing machine having a head carrying a needle and with a face plate over the end of the head and removably held in place by a screw extending through the face plate into the head, said attachment comprising a generally U-shaped yoke hav-

ing a closed end portion shaped to embrace that portion of the head beneath the removable face plate and having an opening in the closed end portion for passage of the face plate securing screw and whereby said yoke may be mounted in definitely fixed relation on the head by locating the closed end portion of the same beneath the face plate and passing the face plate securing screw through said screw opening provided in the closed end portion of the yoke, said yoke having substantially parallel spaced side arms extending away from the closed end of the yoke toward a position at the inner side of the head when the yoke is mounted in the fixed relation described, a



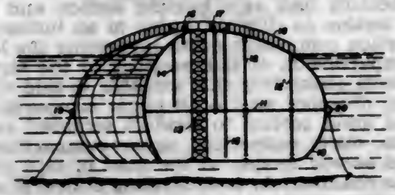
stationary cross stud having its ends riveted to the ends of said side arms of the yoke and securing the same in rigidly spaced relation, a lever pivoted on said stud and arranged to swing upwardly into position at the inner side of the head, or downwardly into position beneath the head, a spring detent secured by one of said riveted ends of the cross stud in position for yieldingly retaining said lever in upwardly retracted position at the inner side of the head and a needle threading hook mounted on the free end of said lever for passage through the eye of a needle when said lever is swung downwardly into position beneath the head.

2,655,887
THREAD BREAKING MEANS FOR SEWING MACHINES
Nicholaus Knaus, Cranford, and Agnes G. Millington, Clifton, N. J., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application July 13, 1950, Serial No. 173,537
6 Claims. (Cl. 112—253)



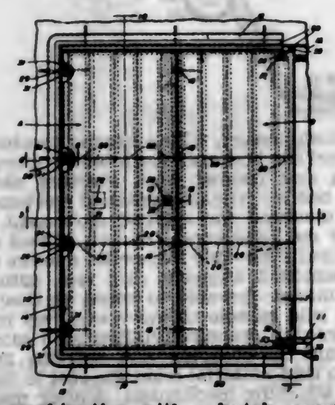
1. A work-pressing mechanism for use with a chain-stitch sewing machine, comprising a substantially L-shaped presser-bar, a presser-foot including an elongated sole-plate pivotally carried upon the free end portion of the shorter limb of said presser-bar with the sole-plate normally disposed in parallelism with the longer limb of said presser-bar, said presser-foot having an upturned forward toe and an upturned rearward heel, and a thread-deflecting guard finger extending upwardly between the rear face of said heel and one limb of said presser-bar.

2,655,888
FLOATING STORAGE TANK
Irwin W. Alcorn, Houston, Tex., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
Application January 5, 1949, Serial No. 69,246
2 Claims. (Cl. 114—5)



1. A submersible floating storage tank for liquids, comprising a tank the surface of which is essentially a surface of revolution, said surface being a continuous curve generated by rotating about its minor axis an ellipse truncated adjacent one end of its minor axis and perpendicular thereto, the truncated portion of said ellipse generating the bottom of the tank, said tank being divided horizontally into an upper and lower section by a horizontal bulkhead located substantially parallel to the major axis of the elliptical portion of the curve, said bulkhead dividing the vertical axis of the tank so that the ratio of the vertical axis to the minor axis of the ellipse is about 0.6 to about 0.95, thereby to maintain the center of gravity of said tank above the center of buoyancy, and said tank being characterized by having a surface offering a minimum resistance to wave action.

2,655,889
HATCH COVER
Karl W. Jernstrom, Verona, N. J., assignor to Seaboard Machinery Corporation, New York, N. Y., a corporation of New York
Application May 19, 1948, Serial No. 27,961
2 Claims. (Cl. 114—202)



1. In combination with a hatch opening surrounded by a frame; a pair of hatch covers, each

cover comprising two sections hinged together at their adjacent edges, each section comprising a flat cover plate having an unobstructed upper surface and having reinforcing beams fastened to its under side parallel to said hinged edges and so arranged that the beams of one section project into the spaces between the beams on the other section when said sections are folded against each other to form a rectangular-shaped box; a plurality of transverse stiffeners mounted on the under side of said plates between said beams, said stiffeners being cut away to accommodate the beams on the opposite section; hinged connections between the free edge of one of said sections and the end of said hatch frame, said hinged connections being attached to the under side of said section and permitting said section to pivot 180° with respect to said hatch frame to a horizontal position alongside said hatch opening presenting a flat upper surface adjacent said opening thereby providing a working platform, a pair of rollers attached to the free edge of the other of said sections adjacent the corners; a track for one of said rollers along the edge of said hatch opening; and a track for the other of said rollers supported across the hatch opening, said pair of hatch covers being mounted side-by-side along the end of said hatch frame to which said hinged connection is made.

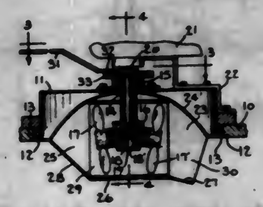
2,655,890
CYLINDROID TUG
William Whipple, Atlanta, Ga.
Application May 15, 1952, Serial No. 287,871
14 Claims. (Cl. 115—26)



3. In a device of the character described, in combination, a buoyant elongated barrel-like member of circular cross-section, an inner shell of lesser radius than the barrel joined to the rear thereof, said rear portion being slightly tapered to form a conical section, a hollow central shaft disposed within said sections, screw-shaped partitions of generally helicoidal form uniting said shaft with the interior of said barrel and inner shell, the angles of said helicoidal surfaces being so proportioned to the radii and length of the shell as to impart acceleration to water therein when the assembly is rotated, thus driving the device forward; and means to rotate said assembly, said means including a weighted internal motor unit geared to the interior of the barrel.

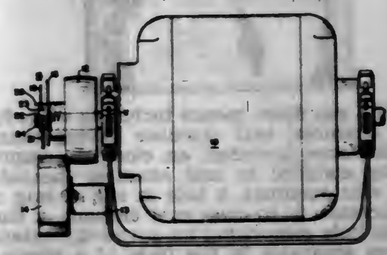
2,655,891
PROPULSION MECHANISM
Michael Gerski, Milwaukee, Wis.
Application August 21, 1950, Serial No. 180,613
5 Claims. (Cl. 115—35)

1. In a propulsion mechanism for water craft the combination of a main housing for attachment to the bottom of the craft to close an opening therein, a rotatively adjustable auxiliary housing supported within said main housing, said auxiliary housing defining an open-ended propeller encircling channel, a propeller supporting means in said channel, a propeller on said supporting means, and a shaft in said supporting means for driving said propeller, said channel serving to direct water to and from said propeller to thereby develop an effective propulsive thrust



through the action of said propeller and said rotative adjustment of said auxiliary housing serving to provide steering means for the craft.

2,655,892
DECELERATION SIGNALING DEVICE
Siegfried E. Manecke, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 14, 1951, Serial No. 215,598
1 Claim. (Cl. 116—74)

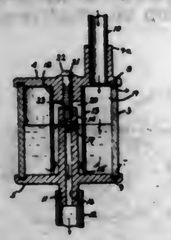


In a centrifugally operated signalling device, the combination of a motor having a frame and a rotatable shaft, a bell carried by the frame and radially spaced from the shaft, an arm fixed to the shaft for rotation therewith, a pin fixed to the arm, a centrifugally operated weight pivoted on the pin, a spring connecting the weight to said arm and biasing the weight to an inner position, said weight being moved to an outer position in response to a predetermined speed of the shaft, a striker pivoted on said pin, and a shoulder carried by the weight and engageable with said striker for moving the latter about the pin, said striker being actuated to a position wherein it clears the bell when the weight is centrifugally moved to said outer position thereof, said striker moving to another position wherein it engages the bell when the weight is moved to said inner position thereof by the spring.

2,655,893
FLUID LEAKAGE INDICATOR
Charles W. Cox, Springfield, Pa., Francis A. Donovan, Wilmington, Del., and John T. Frantz, North Hills, Pa., assignors to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application July 19, 1951, Serial No. 237,532
14 Claims. (Cl. 116—114)

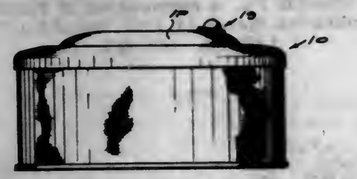
1. A fluid leakage indicating device comprising a transparent cylinder having a top cover and a bottom cover, a sleeve positioned internally of the cylinder and extending between the covers, a plurality of slots in the bottom edge of the sleeve, a fluid opening communicating with the

chamber formed between the cylinder and sleeve, a projection extending upwardly from the bottom
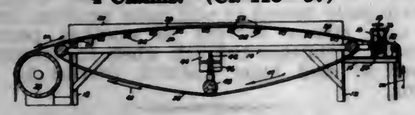


cover into the sleeve, and a fluid outlet passage in the projection.

2,655,894
GAS FILTER INDICATOR
Milton Rabbitt, Gregory, Mich., assignor to Fram Corporation, a corporation of Rhode Island
Application April 21, 1951, Serial No. 222,175
3 Claims. (Cl. 116—117)



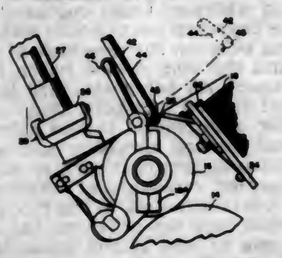
1. In a gas filter, means including walls forming a chamber, said chamber having entrance and discharge openings, an element comprising filtering material in said chamber located between said openings, a hole in one of said walls at a location to by-pass said element, a closure for said hole comprising an outwardly extending pressure separator in the form of a nipple-like diaphragm capable of being extraverted in the wall in which said hole is located upon the occurrence of a certain pressure differential to indicate restricting of the passage of air through said element from the entrance opening to the discharge opening of said chamber.

2,655,895
FLOCKING MACHINE
Ernest A. Abeles, Worcester, Mass., assignor to Elfsuede, Inc., Worcester, Mass., a corporation of Massachusetts
Application September 18, 1950, Serial No. 185,441
4 Claims. (Cl. 118—57)



1. In a flocking machine having a frame, means to travel backing material unidirectionally on the frame under means to apply flocking thereto, and means to apply adhesive to the backing material preparatory to application of the flocking, that improvement comprising a traveling screen on which the backing material rests, means to travel the screen oppositely to the direction of travel of the backing material in contact therewith, a rotary cam under the screen and located on an axis transverse thereto, means to rotate the cam, a free-ended flexible vibrator between the cam and the screen, the cam striking and fluttering the vibrator against the screen, said flexible vibrator being held at one end thereof transversely of the screen, the free, fluttering end of the vibrator extending from the end thereof that is held in the direction of travel of the screen.

2,655,896
PASTER AND HOLDDOWN MEANS FOR LABELING MACHINES
Frank Elsner, Hanover, Pa.
Application November 30, 1951, Serial No. 259,040
9 Claims. (Cl. 118—236)



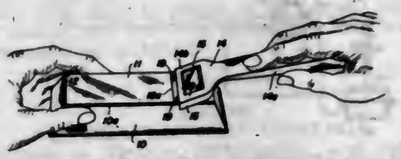
1. In combination in a label pasting apparatus including a means for supporting a stack of labels at a label pick-up position, a label pick-up unit supported for translational movement from said label pick-up position to a label deposit position, an adhesive transfer roller arranged between said positions to have a label drawn over the surface thereof by the unit in the movement of the unit from the pick-up to the deposit position, a label engaging member, means swingingly supporting the member in the path of travel of said unit whereby the member will be swung by the unit toward said pick-up position, means for applying swing torque to said member in the direction of said pick-up unit, means for limiting the reverse swing of the member to a stop position over said roller upon the forward movement of the unit toward said deposite position, means for moving said member transversely of the line of swing relative to the roller when the member is in said stop position and mechanism operatively coupled with the last means and operating synchronously with the pick-up unit to effect the said movement of the member.

2,655,897
FLOUR DUSTING MACHINE
Almen H. Thompson, Fargo, N. Dak.
Application December 10, 1951, Serial No. 260,805
2 Claims. (Cl. 118—308)



1. A flour dusting machine comprising a vertical air distribution housing, blower means carried at the upper end of said air distribution housing, said air distribution housing tapering towards the lower end and increasing in length and decreasing in width, a flour hopper carried by said air distribution housing adjacent a lower air outlet end thereof, said flour hopper extending along the length of said air distribution housing, flour distributing means in the form of a reciprocatory sifting screen across a bottom of said flour hopper, said screen being disposed immediately adjacent said lower air outlet and blown air from said blower means evenly distributing sifted flour from said flour hopper.

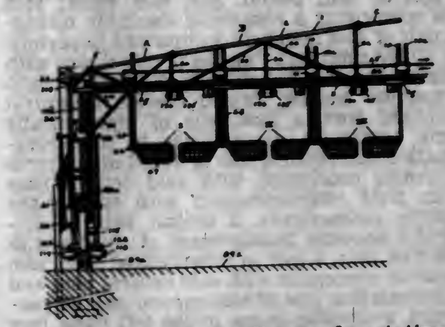
2,655,898
APPARATUS FOR MAKING BLOOD FILMS
Crichton McNeil, Salt Lake City, Utah
Application October 21, 1950, Serial No. 191,398
5 Claims. (Cl. 118—506)



1. Apparatus for making blood films on microscope slides, comprising a supporting stand for the microscope slide, said stand having a slide-supporting surface at its top substantially conforming in dimensions with the dimensions of said slide, and abutment members marginal to said surface for aligning and retaining the slide upon said surface; and a blood smearing implement, which includes a smearing blade, and a manually operable blade holder, said blade holder having an elongate handle member and a blade-receiving member at one end of said handle member, the blade-receiving member having a width substantially equal to the width of a microscope slide, depending ears at opposite lateral sides thereof for guiding the travel of said implement along the upper surface of a microscope slide supported by said stand, and means for retaining said smearing blade within the holder, the said ears of the blade-receiving member of the blade holder having depending lengths effectively greater than the thickness of said slide, so as to slide along said stand substantially in sliding contact with the lateral sides thereof, as guides for said blood-smearing implement.

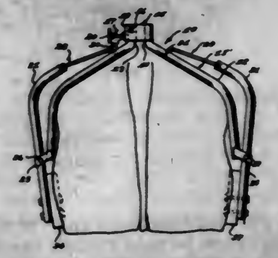
2,655,899
GANTRY AND GATES FOR STARTING RACE HORSES
David L. Alloway, Attica, N. Y., assignor of one-half to Robert Weatherby, St. John's, New Brunswick, Canada
Application April 16, 1949, Serial No. 87,925
17 Claims. (Cl. 119—15.5)

1. In a gantry for starting race horses on a race track, a combination of two parallel runways with a race track between them, a leg having supporting wheels running on each runway, an overhead truss connecting the two legs, power driving means operatively associated with said gantry including a common power source connected to wheels of each of said legs through like gearing for driving the two legs and truss evenly on the two runways, a series of gates arranged in pairs depending from said truss, upright shafts associated with the truss on which said gates are carried and means carried by the gantry for



axially moving and simultaneously rotating said shafts to raise and open said gates.

2,655,900
ANIMAL-RESTRAINING DEVICE
Charles H. Basler and Warren L. Basler, Oshkosh, Wis.
Application July 21, 1950, Serial No. 175,106
4 Claims. (Cl. 119—126)

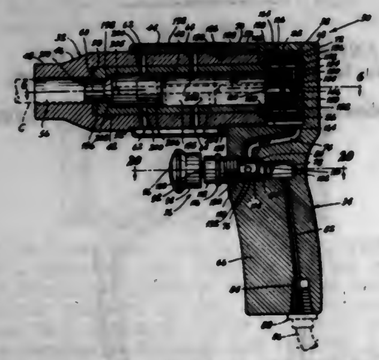


1. An anti-kick device for use on a milk cow comprising an arched support including two curved arms disposed in inwardly opposing relation with respect to each other and having upstanding top ends disposed in spaced relation with respect to each other, means carried by the upstanding top end of one of said curved arms and operatively connected to the upstanding top end of the other of said curved arms for mounting the latter for pivotal movement toward and away from the former, adjusting means threadedly engaged with said first-named means and engageable with said other of said arms for adjustably limiting the movement of the latter away from said one of said curved arms, the upper portions of the arms being each formed with a plurality of spaced latch apertures, respective levers pivoted at their intermediate portions to the lower ends of said curved arms, a block carried by the lower end of each of said levers for engagement with a rear leg of the cow, and a latch lug carried by the upper end of each of said levers and engageable in the latch apertures of the adjacent one of said arms for selectively positioning said levers with respect to said arms.

2,655,901
PNEUMATIC HAMMER
Lowell N. Brown, Overland, Mo.
Application May 12, 1951, Serial No. 225,981
1 Claim. (Cl. 121—18)

In a device of the character described, said device including a reciprocable hammer blow delivery piston member: means for intermittently

and automatically reversing the application of pneumatic air pressure from the front to the rear end of said piston, and vice versa; said means comprising a composite assembly including a pair of disk members maintained in peripherally alined relation by means of dowel pins with a metallic wafer therebetween; the first or right disk member having formed therein a central longitudinal bore, a first pair of diametrically opposite transverse passageways in fluid communication therewith, a pair of longitudinal bores on a radius concentric with said central bore each in fluid communication with one of the transverse passageways, a second pair of diametrically opposite passageways at right angles to said first pair, a pair of longitudinal bores also on a radius concentric with said central bore and each intersecting one of said second pair of passageways, a circular recess in the left hand face portion, an annular flange surrounding the left end of said central bore, and at least one short



longitudinal port leading from each of the second pair of passageways to said recess; the second or left hand disk member having formed therein a central longitudinal through passageway, a pair of longitudinal through bores on a radius concentric with the central bore, a pair of diametrically opposite bores, a pair of longitudinal bores on a radius concentric with said central bore each intersecting one of said diametrically opposite bores, a first circular recess in the right hand face portion, a second smaller recess concentric therewith, a first circular flange surrounding the latter recess, a second circular flange surrounding the right end of said central through bore, and at least one short longitudinal port leading from each diametrically opposite bore to said second recess; the metallic wafer being of a size slightly smaller than the first circular recess in the right hand face portion of the second disk member, and larger than the circular recess in the left hand face portion of the first disk member aforesaid.

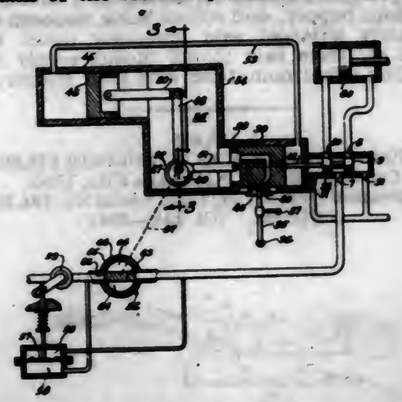
2,655,902

SYSTEM FOR PROPORTIONING FLUID FLOW TO CONTROL SIGNAL MAGNITUDE

Herbert Ziebolz, Chicago, Ill., assignor to Askania Regulator Company, Chicago, Ill., a corporation of Illinois

Application December 22, 1949, Serial No. 134,484
10 Claims. (Cl. 121—38)

1. In hydraulic control apparatus that includes a jet pipe relay comprising a pivoted jet pipe and a sensitive short stroke auxiliary piston arranged in a first cylinder and having therein a pair of distributor ports in closely axially spaced disposition and cross-connected by passages to opposite ends of the piston, means for multiplying movement of the auxiliary piston comprising; structure enclosing a second cylinder having its axis displaced from that of the first cylinder, a long stroke second piston in said second cylinder, an element angularly movable about an axis extending transverse to the axes of said cylinders and spaced laterally of the axis of the second cylinder in the direction



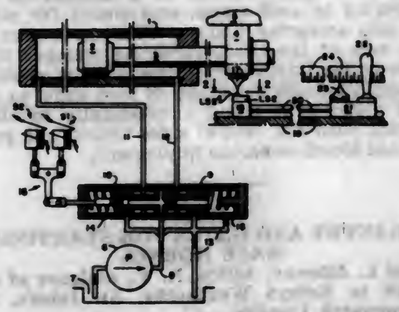
of the axis of the first cylinder, lever arm means secured to said angularly movable means and extending therefrom toward the axes of said cylinders, and links connecting said pistons to said lever arm means, said cylinders having their ends in communication in arrangement for applying force to said lever arm means in corresponding directions to move said angularly movable means.

2,655,903

POSITIONING CONTROL FOR HYDRAULIC MOTORS

Ransom Tyler, Greenfield, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin

Application September 18, 1950, Serial No. 185,487
11 Claims. (Cl. 121—41)



1. In a hydraulic transmission which includes a reciprocating motor for moving a load in opposite directions selectively and a source of motive liquid connected to said motor to energize the same, the combination of a piston valve connected between said motor and said source to control said motor, said valve being biased to a neutral position in which it prevents flow of liquid to or from said motor and being movable into a first or a second operative position in which it directs liquid to one or the other end of said motor, a first and a second magnetic device adapted when energized selectively to move said

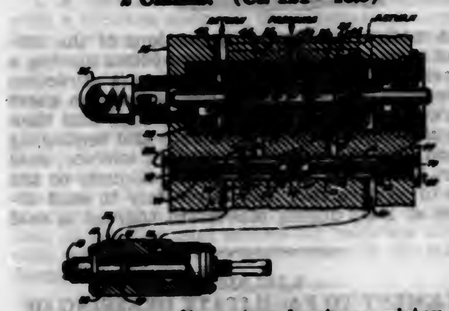
valve into said first or said second positions respectively, an electric circuit for energizing said devices selectively including a starting switch, a control element movable in a path parallel to the path of said load and adapted to be moved in either of said directions into a selected position, means included in said circuit and responsive to movement of said control element in the first or the second of said directions for causing the first or the second of said devices to be energized in response to operation of said starting switch and thereby cause said motor to move said load in the first or the second of said opposite directions respectively, limit switch means movable with said control element and adapted when operated to effect deenergization of the energized device, and a cam movable with said load and adapted in response to said load being moved into a position corresponding to said selected position to operate said limit switch means and thereby cause said energized device to be deenergized and permit said valve to return to its neutral position and cause said motor to stop said load in said corresponding position.

2,655,904

HYDRAULIC GAIN CONTROL

Chalmers A. Strayer, Wilmington, and John R. Clifton, Rolling Hills, Calif., assignors to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California

Application May 23, 1951, Serial No. 228,716
2 Claims. (Cl. 121—46.5)



1. In a hydraulic system having a piston movable within a cylinder in accordance with fluid flow controlled by a valve, said valve providing a balanced neutral leakage to both sides of said piston at the neutral position of said valve, said valve providing a rate gain in said system increasing in a predetermined manner when said valve is moved in either direction away from said neutral position by serially uncovering a number of fluid flow openings, the first of said flow openings being bisected to produce said neutral flow when said valve is in said neutral position, means forming a by-pass channel connecting the two sides of said piston, and means forming an orifice being provided in said channel to control the flow of fluid therethrough, the diameter of said orifice being on the order of the diameter of said neutral flow openings.

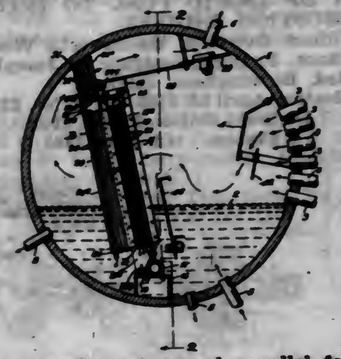
2,655,905

STEAM PURIFIER

Gustav A. Rohm, Springfield, Ill., assignor to Springfield Boiler Company, Springfield, Ill., a corporation of Illinois

Application August 26, 1950, Serial No. 181,644
7 Claims. (Cl. 122—459)

1. A steam purifying assembly for boilers, including a housing forming a purifying chamber and having a body of water disposed in the lower portion thereof, duct means for admitting steam to and for discharging steam from said housing, and a purifying unit disposed within said housing and in the line of flow of steam between said respective duct means, said purifying unit including a steam washer having a pair of spaced, parallel, upstanding support plates having lower ends positioned in said body of water and upper ends disposed adjacent the upper portion of said housing and connected to a relatively fixed portion of said housing, a feedwater supply member between and connected to the upper portions of said plates, a supporting member extending between and connected to the lower portions of said



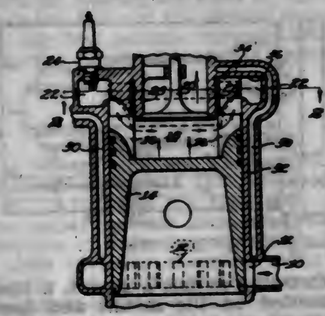
plates, a plurality of spaced parallel feedwater guide members connected between said supply member and support member to form with said support plates, support member and supply member, a substantially rigid structure, each guide member being formed to convey feedwater from said member to said body of water, and a steam drier unit positioned closely adjacent to said feedwater guide members, said drier including a plurality of upstanding drying members disposed in said line of flow of steam downstream of the feedwater guide members, means for supporting said drier including upstanding end members connected to said upstanding supporting plates, whereby said purifying unit may be unitarily inserted and removed from said housing.

2,655,906

TWO-CYCLE COMBUSTION CHAMBER

Stanley M. Udale, Detroit, Mich., assignor to Holley Carbureter Company, Detroit, Mich., a corporation of Michigan

Application August 5, 1953, Serial No. 372,709
2 Claims. (Cl. 123—32)



1. In an internal combustion engine of the type in which fuel is injected close to a spark plug and having a cylinder, a cylinder head and a pis-

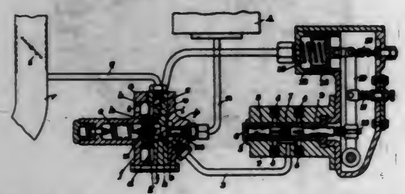
ton, a narrow annular combustion chamber surrounding the head of the cylinder and forming a part thereof, channels in the head of the cylinder, corresponding projections on the head of the piston adapted to fit into said channels so as to squeeze the air caught therebetween out into said annular chamber, said channels and projections being curved and inclined in radial lines so as to cause rotation of the air in said combustion chamber so that the injected fuel is carried across the spark plug.

2,655,907

APPARATUS FOR CONTROLLING THE INJECTION OF LIQUID FUEL TO INTERNAL-COMBUSTION ENGINES

Eric William Downing, Handsworth Wood, Birmingham, England, assignor to Joseph Lucas Limited, Birmingham, England

Application April 23, 1951, Serial No. 222,326
In Great Britain May 5, 1950
2 Claims. (Cl. 123—140)



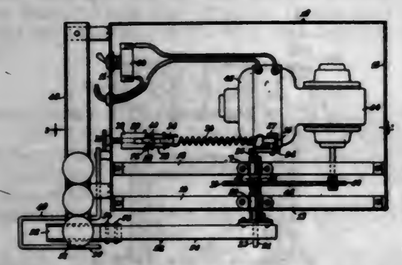
1. Apparatus for controlling the injection of liquid fuel to an internal combustion engine from a pump having a communication with a distributor of the kind including means responsive to the depression of pressure in the air manifold of the engine for varying the rate of supply of fuel from the distributor to the engine cylinders, comprising means responsive to a depression of pressure in the engine manifold which exceeds a predetermined limit for temporarily putting out of action the means for varying the rate of fuel supply to the engine cylinders and thereby interrupting the supply of fuel thereto, and means causing said fuel supply varying means to automatically assume a condition approaching full delivery when said latter means is temporarily put out of action.

2,655,908

ROTARY BALL PITCHING MACHINE

John J. Calleo, Lodi, N. J., assignor to Decky Enterprises, Inc., Garfield, N. J.

Application March 5, 1952, Serial No. 274,989
7 Claims. (Cl. 124—7)



2. In a throwing device, a mount, a shaft rotatably mounted on the mount and having a throwing arm at one end and a crank with crank pin on the other end, a post pivotally mounted at the lower end thereof on said mount for motion about an axis parallel to said shaft, an adjustment device for varying the distance between the upper end of the post and said shaft, and including a yoke piece pivotally linked to the post, and an adjusting screw passing through the mount and threaded into the yoke piece, a clevis pivotally mounted on the upper end of the post and toward the crank, whippletree members mounted on the clevis and crank pin, respectively, a pair of tension springs stretched between the respective ends of the whippletree members and attached thereto, a wheel mounted for free turning on the shaft, a lever arm fast on the shaft and adjacent the wheel, a boss on said wheel and projecting therefrom parallel to the axis thereof and adapted to engage the lever to cause the lever arm to rotate with the wheel when the boss engages the arm, and means for rotating said wheel.

2,655,909

FLAME FINISHING OF GRANITE SURFACES

Robert B. Aitchison, Jackson Heights, N. Y., Howard Leslie Hicks, Barre, Vt., and James R. Craig, Wellesley, Mass., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

Application October 29, 1948, Serial No. 57,172
2 Claims. (Cl. 125—1)



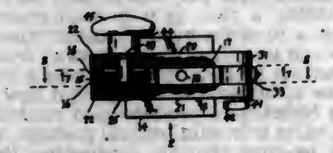
1. A method for removing portions of the surface of a granite block which comprises moving a wide ribbon-like oxy-fuel flame in a direction transversely of said flame from a position short of an edge of said surface to said edge and then along said surface parallel thereto and impinging thereon to remove portions of said surface, said ribbon-like flame being directed obliquely to the plane of said surface and oppositely to said direction at least during movement thereof to said edge.

2,655,910

IMPLEMENT TO FACILITATE DRESSING OF GRINDING WHEELS

Paul E. Grew, Muncie, Ind.

Application April 11, 1952, Serial No. 281,852
4 Claims. (Cl. 125—11)



1. An implement for facilitating truing of an abrasive wheel of a grinding machine, said implement consisting of a stanchion adapted to be anchored at position adjacent to said wheel, similar complemental arm sections arranged in aligned opposed spaced relation and with their inboard ends at two opposed sides of said stanchion, one of said arm sections at the inner face of its outboard end having a pivot bearing, a cross head of width slightly greater than the width of said stanchion at its said two opposed sides, and engaged at a side thereof with said pivot bearing, and provided with a diametric bore directed at an angle to the transverse axis of said cross head, a diamond-pencil positioned in said bore, a knobbed shaft journaled crosswise in the outboard end of the other of said arm sections and threaded axially in said cross head and to communication with the said bore thereof, and operable to fasten said diamond-pencil against dislodgement, and means pivotally interconnecting said arm sections at their inboard ends to said stanchion, and manually operable to strain said arm sections toward each other, thereby to tighten them, said stanchion, and said cross head in tenaciously united relation.

2,655,911

PERCUSSION MECHANISM

Pierre Van Rossum, Mariaburg, and Gonzales Schul, Kapellen, Belgium

Application October 19, 1949, Serial No. 122,276
In Belgium December 9, 1948
2 Claims. (Cl. 125—33)



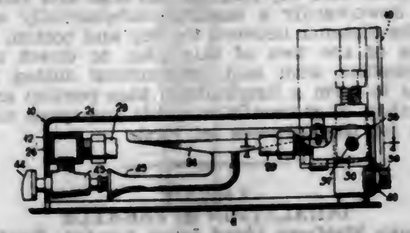
1. A percussion mechanism in combination with a stricken element, the mechanism comprising a driving element having an axis of rotation, a pivot carried by said driving element and situated outside of said axis, the driving element being extended toward the opposite side of said axis and having a guideway formed in the periphery of the extended portion, a striking element pivotally disposed on the pivot of the driving element, the striking element having a portion coacting with the guideway and a second portion coacting with the stricken element on each rotation of the disc, and means for reducing the specific pressure of the second portion on the stricken element.

2,655,912

COMMERCIAL SWINGABLE BURNER UNIT

Walter Kennedy, Cliffside Park, N. J.; The United National Bank of Cliffside Park, Bergen County, N. J., administrator of said Walter Kennedy, deceased, assignor to William D. Kennedy, Englewood, N. J.

Application February 11, 1949, Serial No. 75,759
2 Claims. (Cl. 126—39)



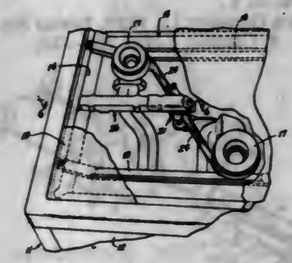
1. The combination with a counter having an elongated frame strip fixed along and projecting above the upper surface of the rear portion thereof, said strip having longitudinal bottom and back portions, and upwardly directed pivot ends, of a swingable burner unit adapted to mount a plurality of gas accessories, a plurality of gas accessories in said unit, said unit comprising a U-frame pivotally supported in connection with the pivot ends of said frame strip, said U-frame comprising front and side members, means paralleling the frame strip for joining and bracing the side members of said swingable U-frame adjacent pivot ends thereof, said means adapted to form a support for said gas accessories, a gas supply tube arranged longitudinally and inward of the front member of the U-frame and adapted to be coupled with said accessories, means mounted on the frame strip forming a gas supply fitting, said fitting having a discharge portion arranged in alinement with the pivot axis of said swinging frame, and a gas supply pipe arranged within said U-frame and swingably mounted on said discharge portion and coupled with said gas supply tube in providing gas supply to the fittings of said unit.

2,655,913

PILOT BURNER HEAT DISSIPATOR

Leonard H. McCammant, Rockford, Ill., assignor to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois

Application December 30, 1949, Serial No. 135,382
5 Claims. (Cl. 126—39)



4. A heat dissipator for a concentrated source of heat, comprising an elongated channel-shaped member having an inverted U-shaped cross section comprising a bridging portion and spaced sides, means closing one end of said channel-shaped member, a second channel-shaped member having an inverted U-shaped cross section comprising a second bridging portion wider than the first bridging portion and second spaced sides, means closing one end of the second channel-shaped member, means between said bridging portions to space them apart and crimped portions formed on the sides of at least one of said members for spacing the sides of the first member from the sides of the second member to define an air flow passage between said members adjacent the closed ends of said members.

2,655,914

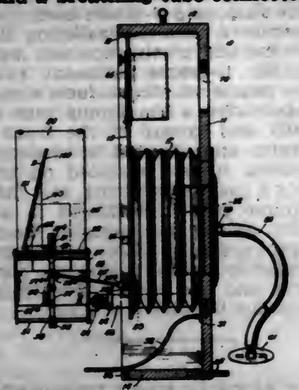
MEASURING DEVICE

Harry M. Jones, Chicago, Ill.

Application February 13, 1950, Serial No. 143,987
8 Claims. (Cl. 128—2.07)

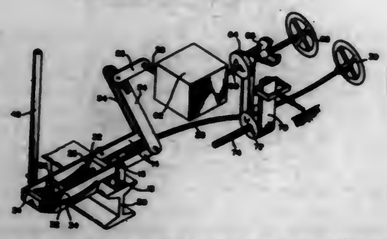
1. An apparatus for measuring the rate of consumption of oxygen comprising a housing, a front plate pivotally mounted along its upper edge to the top of the housing, and expansible bellows mounted between the rear of the housing and said front plate, said housing having a pocket in its rear wall extending into the interior of the bellows, a cartridge adapted to contain a

chemical and removably positioned in said pocket, and a breathing tube connected with the



interior of said cartridge whereby gases breathed by a patient pass through said cartridge.

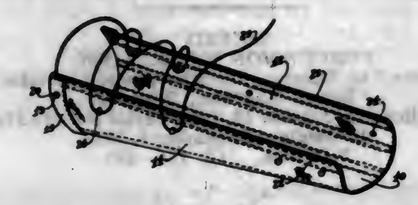
2,655,915
THERAPEUTIC APPARATUS
Harry Russell Brand, deceased, late of New York, N. Y., by Emily Mary Ann Brand, executrix, New York, N. Y.
Application October 11, 1950, Serial No. 189,568
2 Claims. (Cl. 128—33)



1. A therapeutic appliance for the purposes set forth having, in combination, a bed and a support therefor on which said bed is pivotally mounted to rock about a horizontal axis of oscillation substantially midway of its length, mechanism in said support for effecting the oscillation of said bed, said mechanism including a rocking lever, a link connecting an arm of said lever with the under side of said bed at one side of the axis of oscillation thereof, means for effecting the rocking of said lever, and means for varying the length of the lever arm between the fulcrum of said rocking lever and the link connection thereto, including a pivot-carrying block, and a guideway therefor concentric with the pivotal connection of the link to the under side of the bed.

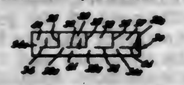
2,655,916
SPLINT
Meinrad J. Timmins, Omaha, Nebr.
Application November 19, 1951, Serial No. 257,046
1 Claim. (Cl. 128—87)

A first-aid splint for use at the scene of an accident including a flexible body formed of an outer piece of material and an inner piece of material, said pieces of material being of substantially the same configuration and size and the inner piece having a flap portion coextensive in width and extending beyond the adjacent end of the outer piece, said pieces being secured together at their sides and bottom by stitching and forming an open top for the body arranged to be closed by said flap portion, spaced stitching extending longitudinally from the top of the body to the bottom thereof to form transversely spaced pockets, stays insertable in said pockets, said body adjacent the top corner thereof being provided with an eyelet, said flap arranged to overlap said eyelet when folded over on said outer piece, so as to enclose the stays when the parts are assembled, the opposed meeting sides of the body having longitudinally spaced hooks offset relative to one another, and a single lacing ex-



tending through said eyelet, said lacing having means engaging the wall of the eyelet for preventing removal of the lacing from the eyelet when moved in one direction relative thereto, said lacing arranged to engage the hooks for securing the splint in place on the fractured or injured part of the human body, said flap portion normally retaining the stays within their pockets but allowing ready removal of the stays from the splint so that the latter may be washed or cleaned.

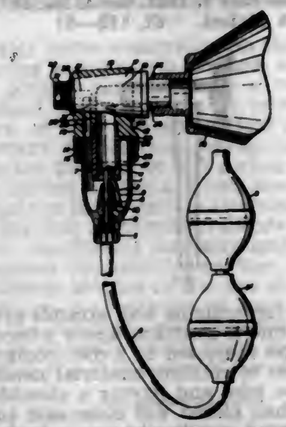
2,655,917
TOE PROTECTOR
Isadore Kiwad, Westwood, N. J.
Application July 17, 1951, Serial No. 237,119
2 Claims. (Cl. 128—153)



1. As a new article of manufacture, a toe protector formed from a normally flat strip of relatively soft and resilient material having top and bottom longitudinal edges, and first and second end edges, a plurality of longitudinal slitted portions in said strip of a pre-determined length substantially equal to the distance between the toes of a user, disposed between said top and bottom longitudinal edges, starting from said first end edge and intermittently spaced along the length of said strip, terminating at a point spaced from said second end edge, a plurality of transverse slitted portions in said strip, starting from said top longitudinal edge and extending downwardly a distance substantially equal to the distance between the top and bottom surfaces of the toes of said user, to direct communication with said longitudinal slitted portions to form a longitudinal base portion and a plurality of manually movable toe space members for the purposes set forth.

2,655,918
INHALATION APPARATUS
Jarman Maldwyn Lloyd Jones, London, England, assignor to Riddell Products Limited, London, England, a British company
Application June 18, 1951, Serial No. 232,105
In Great Britain June 27, 1950
1 Claim. (Cl. 128—173)

Inhalation apparatus comprising a container for the inhalant, said container being formed of transparent material and having a cylindrical portion providing a circular opening at its outer end, said cylindrical portion having a thin annular flange extending outwardly therefrom at its open end, means in said container for atomizing said inhalant, means for supplying compressed air to said atomizing means, a head portion formed of material having a different coefficient of expansion from the material of said container, said head portion having a flat annular surface forming a seat for said thin annular flange on



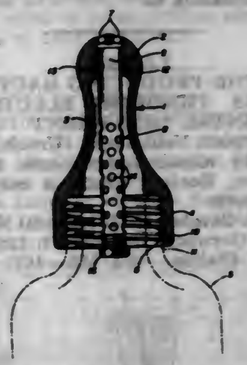
said container and being formed with an internally threaded cylindrical flange surrounding said seating surface and said annular flange, and a clamping collar formed of the same material as said head portion and having a portion extending into said annular flange and externally screw threaded to engage the internal threads of said cylindrical flange, said clamping collar having a further portion thereof positioned to engage the rear face of said annular flange and to press the front face thereof into sealing engagement with the annular seating surface of said head portion.

2,655,919
HYPODERMIC SYRINGE AND CARTRIDGE THEREFOR
Charles B. Goodstein, New Rochelle, and Myron B. Mittleman, Larchmont, N. Y.
Application April 17, 1951, Serial No. 221,342
15 Claims. (Cl. 128—218)



1. A hypodermic syringe including a cup-shaped barrel provided with an aperture in its bottom wall, a hypodermic needle mounted to said barrel through said aperture having ends projecting inwardly and outwardly of said barrel, and means defining first and second axially aligned closed chambers slideably disposed in said barrel, said first chamber being at least partially evacuated, said first chamber being of a predetermined substantially fixed capacity having end walls which are self-sealing and pierceable by said needle and one of which walls confronts said needle and said second chamber having the wall confronting the top of said first chamber likewise self-sealing and pierceable so as to permit sequential entry of the inwardly projecting end of said needle into said chambers as said chambers are pressed toward the bottom wall of said barrel.

2,655,920
NURSING NIPPLE
Eugene J. Cronin, Baltimore, Md.
Application December 30, 1948, Serial No. 68,212
6 Claims. (Cl. 128—252)



1. The combination with a nursing nipple having a plurality of distendible outlets, of a tube closed at its lower end and having an open upper end for enclosing said outlets in said nipple, said tube intermediate its ends having a plurality of radial apertures of substantially the distended size of said outlets for blocking clogging particles therefrom.

2,655,921
VIBRATORY TOOL FOR OPERATING BONE SETS, BONE CHISELS, AND BONE NAIL DRIVERS
Edward J. Haboush, Brooklyn, N. Y.
Application July 9, 1951, Serial No. 235,836
2 Claims. (Cl. 128—305)



2. A vibratory tool for operating bone sets, bone chisels, nail drivers and the like comprising a tubular casing; a chuck at one end of said casing to receive a tool detachably with the inner end of said tool extending into said casing, said chuck including a tubular sleeve on said casing having diametrically opposite generally Z-shaped slots extending inwardly and then laterally from the outer end of said sleeve and having longitudinal

extensions at their inner lateral ends to receive pins projecting radially from a tool shank and guide said pins and tool for lengthwise movement, a chuck sleeve member slidably mounted on said sleeve and having a peripheral flange engaging said sleeve and notches in said flange in alignment with the outer ends of said slots to admit said pins, means to engage said pins and urge them toward the outer ends of said slot extensions, and means on said chuck sleeve member to releasably retain said pins in said slot extension; a hammer member reciprocable in said casing toward and away from said chuck, means in said casing to urge said hammer member toward said chuck, means in said casing for moving said hammer member away from said chuck and releasing the hammer member for movement toward said chuck, said urging means in said chuck normally maintaining said tool out of engagement with said hammer and being compressible to bring said tool into a position to be struck by said hammer as it moves toward said chuck, and means to connect the hammer moving means to a source of power for actuating it.

2,655,922

DEVICE FOR PRODUCING BACTERICIDE OH-IONS THROUGH ELECTROLYSIS FOR DENTAL TREATMENT

Adolf Knappwost, Neuhausen (Urach), Germany, assignor, by mesne assignments, to Vivadent Corporation, Boston, Mass., a corporation of Massachusetts

Application October 4, 1951, Serial No. 249,720
In Germany October 11, 1950
7 Claims. (Cl. 128—409)



1. A device for electrolytically producing bactericidal OH-ions in a tooth-canal, comprising: an elongated composite electrode having separate portions formed of two metals respectively, separated from each other in the electromotive series, means electrically and mechanically joining said two metal portions at one end of each portion, said electrode being formed as a spike, having the portion nearest the point of the spike formed of the more noble metal and the portion more distant from said point formed of the less noble metal, said spike having the portion thereof nearest the point suitably shaped and sized so as to be capable of introduction into the tooth-canal and having the other portion bent over and capable of extending externally of the tooth, whereby to contact the oral fluids and to establish current flow through said spike and the tissues adjacent the point thereof.

2,655,923

METHOD OF SHAMPOOING AND SETTING HAIR

Norma B. Gallenkamp, Houston, Tex.

No Drawing. Application July 20, 1950, Serial No. 175,003
2 Claims. (Cl. 132—7)

1. The method of treating human hair in preparation for waving which comprises soaking the hair with warm water, distributing through the wet hair a composition comprising starch, lanolin, neutral synthetic detergent and wax, all evenly distributed in an aqueous medium, rinsing and drying the hair, thereby to leave on it a greaseless coating which permits the hair to be set.

2,655,924

HAIR DYEING AND BLEACHING DEVICE

Mario Petitta, New York, N. Y.

Application July 5, 1952, Serial No. 297,284
6 Claims. (Cl. 132—9)



1. A device for bringing hair strands extending from a scalp into a confining space wherein said strands may be subjected to a dye, comprising a tube, a member of resilient material mounted on one end of the tube and having a closable aperture which when closed will close said tube end and an elongated member having a hook thereon, positioned through said aperture whereby the resilient member is between said hook and the other end of said tube; said hook being adapted for engagement with hair strands on a scalp and when so engaged, said elongated member may be pulled into said tube whereupon the engaged hair strands are pulled into the tube.

2,655,925

COMB

Bernhard Ulvad, North Leominster, Mass., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

Application May 8, 1952, Serial No. 286,734
4 Claims. (Cl. 132—18)



1. A one-piece comb for curling hair which comprises two rows of teeth; the teeth in one row being in a staggered and overlapping relation to the teeth in the other row; each tooth having an outside surface and an inside surface which meet in two sharp corners, said corners having an angular magnitude of not greater than 90°; said corners of each tooth lying in one

of two substantially parallel planes along the comb, said parallel planes being less than 0.05 inch apart.

2,655,926

HAIR CURLER

John Parrilla, Brooklyn, N. Y.

Application March 2, 1951, Serial No. 213,647
8 Claims. (Cl. 132—33)
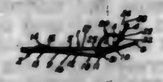


1. A hair curler comprising an elongate structure having a hand-grip portion, and having a curling portion provided with a hair-receiving longitudinal slot extending to one end of the structure, at least one side of said slot having a substantially flat surface substantially equal in width to the diameter of said curling portion, said curling portion having a recess located adjacent its slotted end in the surface comprising the other side of the slot; and resilient means extending in said slot, constructed and arranged to normally press against the said flat surface, for engaging and yieldably holding in the slot strands of hair inserted for the purpose of curling said hair around the structure, said resilient means comprising an elongate spring blade having one end disposed in the said recess of the slotted curling portion.

2,655,927

SPRING CLAMP

Francis D. Ammen, Los Angeles, Calif., assignor to Kaynar Manufacturing Company, Los Angeles, Calif., a copartnership

Application August 14, 1950, Serial No. 178,158
7 Claims. (Cl. 132—46)



1. In a clamp, the combination of a first member and a second member superposed upon each other, said members having superposed jaw-extensions and superposed handle extensions, and having means for effecting a connection between the same enabling them to rock upon each other on an axis, and so that pressure exerted on said handle extensions can separate said jaw-extensions, the handle extension of said first member being disposed at an angle to the plane of its jaw-extension, a bow-form spring member constituting a separate piece distinct from both of said members, extending across said angle, a connection at one end connecting the same to the handle extension of the first member and a connection at its other end connecting to the second member, said connections operating to maintain said spring member in tension to hold said jaw-extensions normally in their closed position.

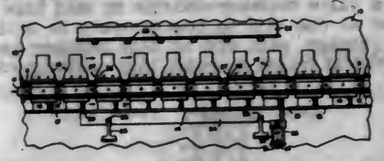
2,655,928

BOTTLE CLEANSING MACHINE

James L. Herold, St. Louis, Mo., assignor to Barry-Wehmiller Machinery Company, St. Louis, Mo., a corporation of Missouri

Application January 11, 1950, Serial No. 138,033
12 Claims. (Cl. 134—112)

1. In a bottle cleansing machine having a cleansing zone wherein bottles are subjected to cleansing liquid, a bottle conveyor having rows of elongated bottle holders movable through said cleansing zone, said bottle holders being adapted to loosely receive rows of bottles, and means for rocking the loose bottles in and relative to the longitudinal axis of said holders, said means including track bars having friction surfaces below the rows of bottle holders to contact with and support the rows of bottles, each of said track bars being arranged parallel with the course of the bottle holders in said cleansing zone and extended beneath successive rows of said bottle



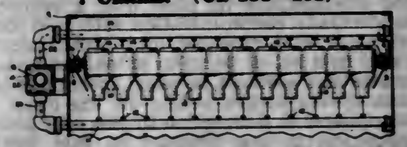
holders, so as to simultaneously contact with a series of bottles in the successive rows, pivotal supports for said track bars, and operating means to simultaneously oscillate said track bars on their pivotal supports and thereby rock the bottles in said successive rows of holders, said bottle holders being provided with pushing abutments to push the rows of loose bottles along the friction surfaces of said track bars.

2,655,929

APPARATUS FOR CLEANSING BOTTLES

James L. Herold, St. Louis, Mo., assignor to Barry-Wehmiller Machinery Company, St. Louis, Mo., a corporation of Missouri

Application January 11, 1950, Serial No. 138,034
7 Claims. (Cl. 134—131)



6. Apparatus for cleansing bottles comprising a conveyor movable step by step through a bottle cleansing zone, rows of bottle holders on said conveyor for relatively loosely locating the bottles in an inverted position in the cleansing zone, lower rows of cleansing fluid injection nozzles, the nozzles in each row being aligned with the bottles in a row thereof to direct slugs of cleansing fluid into the bottles for short periods of time, upper rows of fluid nozzles, with the nozzles in each upper row corresponding with the nozzles in a row below whereby fluid from said upper nozzles impinges on the opposite ends of the bottles, and distributor valve means connected with both said lower and upper nozzles, corresponding rows of nozzles of the lower and upper rows being simultaneously connected for the discharge of fluid, the impinging fluid from the upper nozzles opposing the slug injection from the lower nozzles to prevent escape of the bottles from said holders, said valve means regulating the distribution of the fluid to each of said corresponding rows of lower and upper nozzles in successive order.

2,655,930

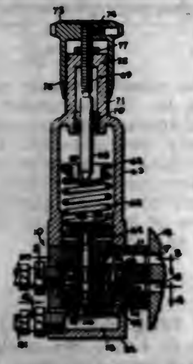
UNLOADING AND RELIEF VALVE

John Maurice Tewler, Rodley, and Frank Hathern Tewler, Deb Park, near Otley, England, assignors to Electraulic Presses Limited, Rodley, England, a corporation of England

Application August 24, 1950, Serial No. 181,172
4 Claims. (Cl. 137—108)

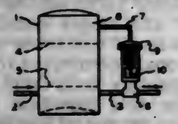
2. An unloading and relief valve comprising a body having a valve bore and first, second and

third sets of ports opening at axially spaced points to said bore, a delivery passage in communication with one end of said bore and having an inlet adapted to be connected to one source of pressure fluid, a second passage in communication with the first set of ports and having an inlet adapted for connection to another source of pressure fluid, and an exhaust passage in communication with said second and third sets of ports, a valve member slidable in said bore and exposed at one end to the pressure in said delivery passage, said end of said plunger having a peripheral recess movable into communication



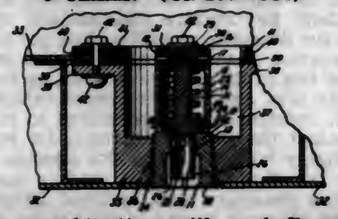
with said third set of ports to provide a pressure relief connection between said delivery passage and said exhaust passage, said plunger being formed intermediate its ends with a peripheral recess always in communication with said second set of ports and movable into communication with said first set of ports to unload said second passage to said exhaust passage, adjustable compression spring means acting on the other end of said plunger in a direction to bias said plunger in opposition to the pressure in said delivery passage whereby to move said recesses out of communication with said first and third sets of ports, and check valve means for passing fluid directly from said second passage to said delivery passage when said first set of ports is blocked.

2,655,931
LOW-PRESSURE CUTOFF FOR HYDRO-PNEUMATIC TANKS
John A. Dodd, Atlanta, Ga.
Application May 21, 1948, Serial No. 28,507
1 Claim. (Cl. 137—266)



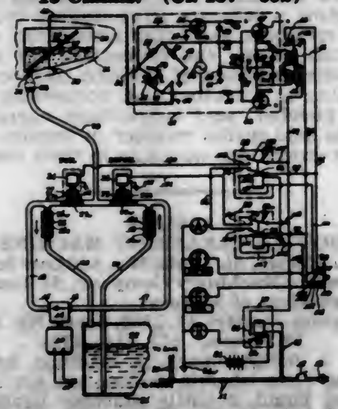
A hydro-pneumatic system comprising a closed tank of known volume containing a varying supply of liquid and a relatively constant known supply of compressed gas above the liquid and forming an elastic cushion, a liquid inlet for admitting liquid under pressure to raise the liquid level in said tank to further compress said gas to increase the pressure thereof, a liquid outlet connection to said tank at a point dividing the tank into known volumes above and below said outlet for withdrawing liquid from said tank to lower said liquid level to expand said gas in said tank to reduce the pressure thereof, a valve in said liquid outlet for regulating the flow of liquid from said tank to lower said level, means for actuating said valve including means connected to said tank and responsive to the pressure of said gas to close said valve and to interrupt the withdrawal of liquid from said tank upon a predetermined minimum pressure in said tank, said gas supply having a predetermined volume at said predetermined minimum pressure in said tank establishing said liquid level above said outlet whereby loss of said gas supply through said outlet is avoided by closing said valve with said liquid level above said outlet.

2,655,932
DRAIN VALVE
Maurice S. Lipman, Hempstead, N. Y., assignor to Republic Aviation Corporation, near Farmingdale, N. Y., a corporation of Delaware
Application March 11, 1947, Serial No. 733,791
9 Claims. (Cl. 137—244)



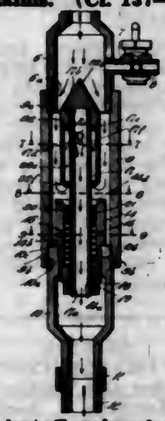
8. The combination with a hollow aircraft component normally disposed in the air-stream and having a drain opening in its skin, of a support positioned within said component in association with said opening and having its outer face substantially flush with the skin of the component defining said opening and also having an outlet passage therein for communication with the interior of the component, a drain valve carried by the support and situated wholly within the component to control the outlet passage in the support, means for normally maintaining said valve closed to seal said outlet passage of the support, and means, whereby the valve may be manually operated from the exterior of the component to establish communication through the outlet passage between the interior and exterior of said component.

2,655,933
LIQUID-CONTROLLING SYSTEM
Carl H. Odell, Morristown, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application April 10, 1948, Serial No. 20,231
15 Claims. (Cl. 137—392)



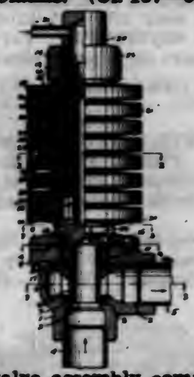
2. In a liquid-controlling apparatus for causing a tank to be filled to a preselected percentage of the total liquid capacity thereof: the combination of a sensing device in said tank for producing a quantity having values varying with the percentage fill of the tank; a pumping system normally in ineffective condition and including means selectively operable into different effective conditions to cause said pumping system either to pump liquid into said tank or to draw liquid therefrom; a manually-settable device calibrated in terms of percentage fill of the tank; and means for controlling said pumping system comprising manual starting means for putting said pumping system into effective condition, and means controlled jointly by said sensing and settable devices as said starting means is operated for conditioning said pumping system to pump liquid into said tank or to draw liquid therefrom according to whether the actual fill of the tank is smaller or greater than the setting of said settable device.

2,655,934
SAFETY SHUTOFF DEVICE FOR OIL AND GAS WELLS
Louis Charles Clair, Bernice, La., assignor of one-eighth to Merrick Semion Whitfield, Homer, one-sixteenth to Will Ellis Worley, Shreveport, La., one-eighth to Rufus F. Peterson, Palestine, Tex., and one-eighth to Jesse Delton Dyal, Lisbon, La.
Application December 14, 1949, Serial No. 132,860
9 Claims. (Cl. 137—498)



1. A safety shutoff valve for oil and/or gas comprising a housing internally screw-threaded at each end thereof, coupling means at each end of said housing, one of said coupling means being internally screw-threaded, a screw-threaded member mounted in the internal screw threads in said last mentioned coupling means, said member having an axial bore extending therethrough, a tube slidable through the bore in said member and projecting beyond the end thereof, an abutment carried by said tube beyond the end of said member, an adjustable collar carried by said tube and slidable concentrically within said member, a coil spring seated within said member concentrically around said tube and confined by said adjustable collar on said tube, said spring being biased for normally projecting said tube through said member limited by the abutment on the end thereof, the opposite end of said tube having a screw-threaded terminus thereon and having ports in the side walls thereof and a valve head carried by the screw-threaded end of said tube and having a skirt thereon annularly spaced from said tube and extending over the ports therein and providing an annular pressure flow path intermediate the exterior surface of said tube and the interior surface of said head, said skirt terminating in a peripheral valve seat and a valve seat on said member adapted to coact with the peripheral valve seat on said head when said head is displaced by pressure of oil and/or gas during the passage thereof from one of said coupling means to the other of said coupling means through said tube.

2,655,935
PRESSURE RELIEF VALVE ASSEMBLY
Robert B. Kinzbach, Houston, Tex.
Application December 26, 1946, Serial No. 718,313
14 Claims. (Cl. 137—538)



1. A relief valve assembly comprising, a body having an inside annular packing groove and also a pressure fluid inlet and outlet, a cage fitted into the body and arranged to form one side of said groove, said cage having egress ports to permit the passage of fluid to the outlet, a valve mounted in the body, a packing ring in the groove and in sealed engagement with the valve, when the valve is in one position, said cage forming with said body a leakage passageway leading from said groove into said outlet for causing the fluid to retain the packing ring within the body when the valve moves out of sealed engagement with the ring.

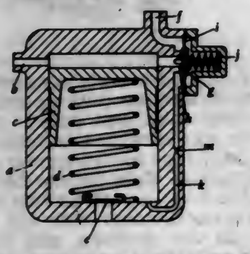
2,655,936
VALVE ASSEMBLY
Aaron Wexler, Pittsburgh, and George T. Cunningham, Greensburg, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 21, 1950, Serial No. 145,533
8 Claims. (Cl. 137—540)



1. In a valve assembly, the combination of, a valve body having a valve chamber therein and

having an inlet passage into said chamber, a valve seat about said inlet passage in said chamber, a valve member of substantially circular configuration and having a circular recess in one face thereof of substantially rectangular cross-section to define corners at opposite sides of the bottom of the recess, said valve member having openings therethrough into the bottom corners of said recess for venting the bottom of said recess, a ring of resilient material secured in said circular recess, said ring being of curved cross section and making contact with the bottom of said recess along a continuous single line between said corners, said valve member being disposed in said chamber with said ring seating upon said valve seat to seal off said inlet passage, and biasing means engaging said valve member and forcing said valve member against said seat.

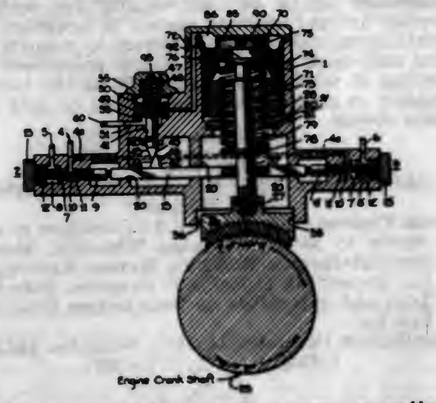
2,655,937
LIQUID-FUEL INJECTION MEANS FOR PRIME MOVERS
Thomas Alfred Harris, Birmingham, England, assignor to Joseph Lucas Limited, Birmingham, England
Application December 27, 1948, Serial No. 67,464
In Great Britain January 1, 1948
3 Claims. (Cl. 137—593)



1. For use in liquid fuel injection systems of the kind specified, an accumulator comprising the combination of a cylindrical accumulator chamber having an inlet and a delivery outlet, a spring loaded piston slidable in the chamber, a spring loaded release valve between one end of the chamber and the delivery outlet, and a restricted branch passage affording a connection between the other end of the chamber and the delivery side of the said release valve when the latter is open and being controlled by said valve, whereby when fuel is being discharged through the open release valve, some fuel can flow to the said other end of the chamber through the restricted branch passage.

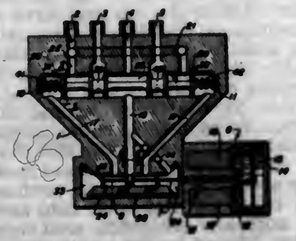
2,655,938
DIRECTION SENSING DEVICE
Harry C. May, East McKeesport, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application July 26, 1949, Serial No. 106,863
4 Claims. (Cl. 137—609)

1. In combination with a casing having a first chamber and a second chamber, a motion reversible member, a structure movable longitudinally into and out of engagement with said member and movable transversely by said member when in engagement therewith, actuating means responsive to supply of fluid under pressure to said first chamber to effect longitudinal movement of said structure into engagement with said member, first spring means to effect longitudinal movement of said structure out of engagement with said member upon release of fluid under pressure from said first chamber, a valve actuating element slidably mounted in said casing and operably connected to said structure for slidable movement thereby in one direction or its opposite according to direction of transverse movement of said structure, valve means operable by said valve actuating element to assume positions according to direction of sliding movement of said actuating element, stop means engageable by said structure to define two opposite positions of said actuating element, a locking pin movable into engagement with said actuating element to lock same in either one or the other of its opposite



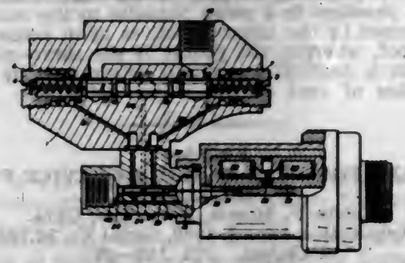
positions, unlocking piston means operatively connected to said locking pin responsive to supply of fluid under pressure to said second chamber to disengage said locking pin from said actuating element and to uncover a port connecting said first chamber to said second chamber, and second spring means cooperative with said casing and said unlocking piston to urge said unlocking piston in the direction of said second chamber to cause engagement of said locking pin with said actuating element and to open said port to atmosphere for releasing fluid under pressure from said first chamber.

2,655,939
SOLENOID HYDRAULIC CONTROL VALVE
Vernon A. Tauscher and William D. Mulline, Jr., Los Angeles, Kenneth R. Jackson, Alhambra, and William De Witt Lyon, Los Angeles, Calif., assignors to North American Aviation, Inc.
Application November 22, 1948, Serial No. 61,482
9 Claims. (Cl. 137—623)



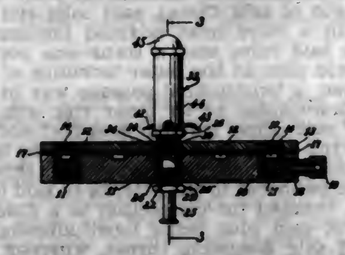
9. Regulating means comprising a pair of fluid channels arranged in parallel, means for causing the flow of fluid into said pair of channels from a common source, means for restricting the flow of fluid into said pair of channels, a single channel, a T-shaped junction for recombining the flow of fluid in said pair of channels into said single channel, said pair of channels being connected to the arms of said T-shaped junction and said single channel being connected to the upright of said T-shaped junction, slide valve means movable in the arms of said T-shaped junction and centered on said T-shaped junction for controlling the rate of flow from each of said pair of channels into said single channel, and means responsive to the differential pressure in said pair of channels for regulating the flow of fluid in a hydraulic system whereby said flow of fluid is proportional to the movement of said slide valve rate controlling means.

2,655,940
TIME-MODULATED TWO-STAGE HYDRAULIC VALVE
Kenneth R. Jackson, Alhambra, Calif., assignor to North American Aviation, Inc.
Application January 9, 1950, Serial No. 137,655
10 Claims. (Cl. 137—623)



5. A time-modulated hydraulic valve comprising a plurality of fluid channels arranged in parallel, means for causing the flow of fluid into said plurality of channels from a common source, means for restricting the flow in said plurality of channels, a single channel, means for combining the flow in said plurality of channels into said single channel, time-modulation means having a time-modulated output positioned in said plurality of channels to time modulate the flow from each of said plurality of channels into said single channel, and means responsive to the differential of fluid pressure in said plurality of channels for controlling the flow of fluid in a hydraulic system to thereby control the flow of fluid in said hydraulic system in response to said time-modulating means.

2,655,941
PRESSURE SELECTING SYSTEM AND MECHANISM
William V. Brown, Flushing, N. Y., assignor to Republic Aviation Corporation, near Farmingdale, N. Y., a corperation of Delaware
Application August 15, 1946, Serial No. 690,665
6 Claims. (Cl. 137—627)



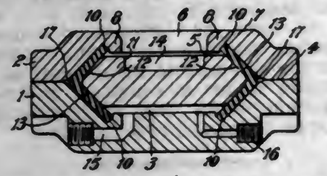
1. An apparatus for the selection of fluid pressure to be measured, comprising a manifold including a hollow base and a cover plate to close and seal said base, said base and plate having a multiplicity of aligned and corresponding apertures and the base having a plurality of open grooves facing the plate and interconnecting said apertures, a valve and pressure conduit coacting with each aperture of the base, an electromagnet in each of the apertures of the plate and operably associated with the valve in the corresponding aperture of the body, automatic electrical means for sequentially operating said electromagnets to open the associated valves and thereby permit the transfer of fluid under pressure from the conduits to the grooves aforesaid, and an outlet means in constant, unobstructed, communication from the said grooves and adapted to be connected to a recorder.

2,655,942
BUTTERFLY VALVE WITH SEQUENTIAL ROTATING AND TILTING OPENING AND CLOSING MOVEMENTS
Richard H. Dougherty, Burbank, Calif., assignor, by mesne assignments, to D. F. Campbell
Application April 5, 1948, Serial No. 19,082
5 Claims. (Cl. 137—746)



1. In a butterfly type valve, a valve casing forming a passage and in which is formed interiorly a peripheral seat for a valve disc, a valve disc of a size to close said passage and to seat in sealing relationship on said seat, and means to move said disc in two steps between a first or open position in which it is spaced from said seat and extends in a plane substantially longitudinally of said passage and a second or closed position in which it extends in a plane transversely of said passage and makes sealing contact with said seat, one of said steps comprising the pivotal movement of said valve disc about a shiftable axis extended transversely through said passage, and the other of said steps comprising the tilting of said valve disc about a second axis extended substantially perpendicularly to said shiftable axis, said means comprising: shaft extensions positioned on one side of said disc and extended from said passage into said casing, said extensions constituting said shiftable axis, a bearing seat in said casing seating one of said shaft extensions for rotation and for limited pivotal movement about said second axis, a cam rotatably seated in said casing rotatably seating the other shaft extension eccentrically, said cam being adapted to shift said other shaft extension relative to said casing upon being rotated itself, said shift being toward and from the plane of said seat and effecting the tilting movement of said valve disc about said second axis, a first force transmitting element connected to one of said shaft extensions outside said casing to transmit a rotating force thereto to pivot said valve disc about said shiftable axis, a second force transmitting element outside said casing connected to said cam to transmit a rotating force thereto to tilt said valve disc about said second axis and toward and from said seat, and a third force transmitting element to engage said first and second force transmitting elements sequentially to move said valve disc sequentially about said first and second axes.

2,655,943
HYDROSTATIC APPARATUS
Paul Brierley, Birmingham, England, assignor to Dunlop Rubber Company Limited, London County, England, a British company
Application October 16, 1951, Serial No. 251,595
In Great Britain October 19, 1950
3 Claims. (Cl. 137—778)



1. A hydrostatic load indicating device comprising a base member having an inwardly tapering frusto-conical recess, a cover plate having a complementary recess and an orifice between said complementary recess and the exterior of said cover plate, said members and said plate being secured together with the said recesses coaxial to form a chamber having a V-shaped peripheral wall, a floating load plate having a V-shaped periphery in the chamber, a resilient annular shaped member between the V-shaped periphery of said load plate and the V-shaped peripheral wall of said chamber to form a liquid-tight compartment between the load plate and the base member, a fluid inlet within said base member for said compartment and a fluid outlet within said base member for connecting said compartment to a pressure gauge.

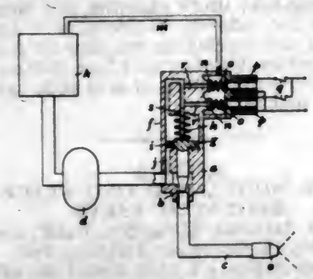
2,655,944
HEATING TUBE FOR DEEP FAT FRYERS
William C. Prochl, Chicago, Ill.
Application June 7, 1950, Serial No. 166,663
7 Claims. (Cl. 138—38)



1. In heating tubes adapted for heating liquids the combination of a horizontally disposed tube for traversal of highly heated gases, and heat-radiating elements therein comprising a horizontally disposed mediate mesh work and a plurality of vertically positioned baffles of mesh work, the said mesh work being made of a nickel-chromium-iron alloy, said baffles being arranged in staggered relationship in said tube by being secured alternately to opposite sides of the tube and extending toward the opposed wall thereof.

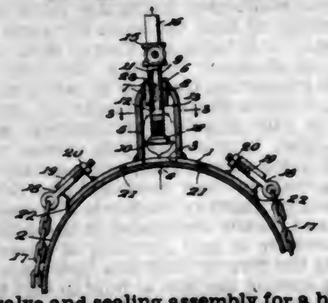
2,655,945
MEANS FOR CONTROLLING THE RATE OF SUPPLY OF LIQUID FUEL TO PRIME MOVERS
Thomas Alfred Harris, Edgbaston, Birmingham, England, assignor to Joseph Lucas Limited, Birmingham, England
Application May 31, 1951, Serial No. 229,010
In Great Britain June 6, 1950
3 Claims. (Cl. 138—46)

1. Means for controlling the rate of supply of liquid fuel to a prime mover comprising, in combination, a throttle valve movable in a fuel supply passage for controlling fuel flow therein, a liquid actuated servo-mechanism including a cylinder and a piston operatively connected with the throttle valve for displacing the latter, a plurality of vent passages communicating with the cylinder, a valve controlling each of said vent passages, separate electromagnetic means for actuating each of said valves in succession, and a single valve member operatively connected with the piston and movable therewith upon successive actuation of the vent controlling valves to a



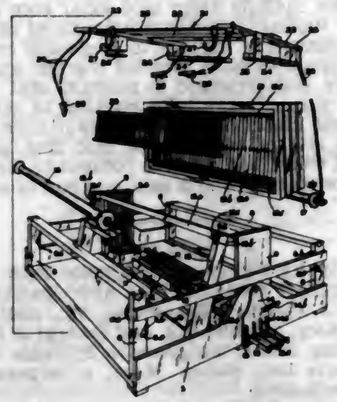
series of positions for successively controlling the vent passages in a sense opposite to the control exercised by the separate valves upon actuation thereof, whereby the piston of the servo-mechanism is held in a position determined by the number of vent control valves actuated.

2,655,946
VALVE FOR LEAK PATCHING DEVICE FOR PIPE LINES
Melvin P. Morris, Okmulgee, Okla.
Application June 2, 1949, Serial No. 96,786
3 Claims. (Cl. 138—99)



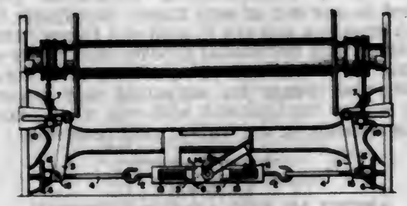
1. A valve and sealing assembly for a high pressure leak patching device; said assembly comprising a hollow, upstanding dome, the open base of which is adapted to be sealed to the outer face of a metallic pipe line patch pad, around a leak encircling opening in the latter, an internally threaded discharge throat in the end wall of said dome, bounded at its inner end by a valve seat lying within said dome, an elongated threaded plug filling said discharge throat, the inner end of said plug extending into said dome and being solid for a longitudinal distance at least equal to the length of said throat, said solid end terminating in a valve head adapted for engagement with said valve seat, a transverse port located in said plug at the outer terminus of said solid portion, a longitudinal passage way in said plug communicating at its inner end with the interior of said dome, through said port and extending to the opposite end of the plug, the latter end of said threaded plug projecting through said discharge throat to the exterior of said dome and being adapted for connection to a fluid diversion line, said plug being longitudinally adjustable in said discharge throat, whereby said valve head is seated and the solid portion of the plug fills said throat, upon the extreme outward movement of said plug to seal off the interior of said dome.

2,655,947
HAND WEAVING LOOM
Hilma L. G. Berglund, St. Paul, Minn.
Application November 18, 1950, Serial No. 196,495
5 Claims. (Cl. 139—30)



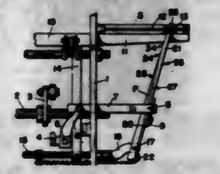
1. A weaving loom comprising a base, a pair of upstanding opposed frame guides fixed to the ends of said base and having frame guiding means formed therein to slidably receive a plurality of heddle frames, a plurality of frame receiving cradles mounted between the bottoms of said guides, means for individually raising said cradles, a batten swingably mounted on said base and having a removable top bar, a breast beam and a back beam respectively mounted along the sides of said base structure, and means connected with said base structure for removably journaling a pair of rotatable rolls.

2,655,948
LOOM WEIGHTING FOR WEAVING
Henry Richmond, Great Lever, Bolton, England
Application July 14, 1949, Serial No. 104,761
In Great Britain February 12, 1949
3 Claims. (Cl. 139—100)



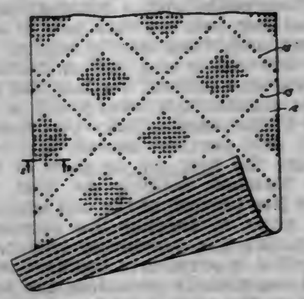
1. In a loom having a warp beam, a warp let-off comprising: a casing secured to said loom, two opposed blocks slidably mounted in said casing, a hook bar secured to each block and extending outwardly from said casing in opposite directions, compression springs on said bars between said blocks and the ends of said casing for normally urging said blocks towards each other, means connecting said hook bars with the ends of said beam to transmit braking pressure from said springs to said beam and means for moving said blocks away from each other to relieve said braking pressure.

2,655,949
COMPOSITE PICKER STICK
Raymond A. Hagstrom, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application August 16, 1952, Serial No. 304,789
10 Claims. (Cl. 139—157)



1. A composite picker stick having sides and opposite edges and made of two components, one of said components being made of a plurality of substantially parallel longitudinally extending densified wood laminations adhesively secured together and extending along one edge of the stick, and the other component extending along part at least of the opposite edge of the stick and made of a single piece of non-densified wood adhesively secured to said one component along a plane transverse of the sides of the stick.

2,655,950
TERRY WEAVE FABRIC
George L. Mills, Auburn, Maine, assignor to Bates Manufacturing Company, a corporation of Maine
Application June 30, 1948, Serial No. 36,120
10 Claims. (Cl. 139—396)

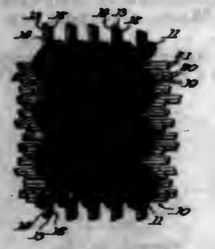


3. A terry weave fabric having a woven ground of warp and weft threads, and a plurality of extra warp yarns woven with the ground and parallel to the warp threads thereof, said yarns forming pile areas of terry loops defining a figured pattern on at least one side of the fabric and being bound, between said pile areas, to the ground by weft threads, said fabric having unrelated patterns formed by said extra warp yarns on the two sides thereof and the figured pattern on at least one side of the fabric having pattern borders no substantial portions of which are parallel to the warp.

2,655,951
LOOP PILE FABRIC
Eugene F. Clark, Damariscotta, Maine, assignor to Marshall Field & Company, Chicago, Ill., a corporation of Illinois
Application March 6, 1948, Serial No. 13,371
4 Claims. (Cl. 139—403)

1. A loop pile fabric comprising ground warps, weft shots interwoven therewith, and pile threads passing under alternate weft shots and over in-

termediate weft shots, each said pile thread passing under a weft shot, over four ground warps, under a weft shot and back over the same



four ground warps to complete a cycle of interweaving with the weft shots whereby to form pile loops each extending both warpwise and weftwise.

2,655,952

METHOD OF FORMING LAMP FILAMENTS

Oliver Mann, Danvers, and Ralph B. Thomas, Beverly, Mass., assignors to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts

Application May 28, 1949, Serial No. 95,986
1 Claim. (Cl. 140—71.6)



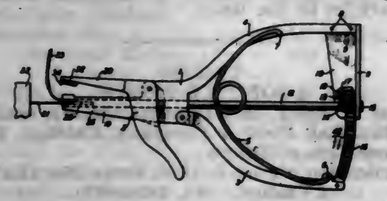
In the method of forming an electric lamp filament from a continuously uniform wound coil of filament wire, said filament having a plurality of coil segments with a filament supporting full circular loop between each pair of segments, said method comprising fixedly holding the continuously uniform wound coil of filament wire adjacent one end thereof, bending the free portion of the continuously wound coil of filament wire until it lies substantially perpendicular to the fixedly held portion thereof, said held portion defining the first coil segment of the electric lamp filament, holding the next complete loop of the free portion of the coil against shifting, and, while so holding the complete loop, further bending the remaining free portion of the coil until it is parallel to the first coiled segment, and sequentially executing the above defined steps on the remaining free portion of the continuously wound coil until the filament forming operation has been completed.

2,655,953

WIRE CONNECTING TOOL

Herman A. Miloche, Teaneck, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 6, 1947, Serial No. 752,895
12 Claims. (Cl. 140—121)



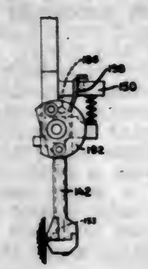
2. A hand tool for securing wire to electric terminals comprising a body member housing a rotatable shaft therein, means associated with said body member for rotating said shaft, the forward portion of said shaft having a circular substantially axial bore into which bore one end of said terminal may be inserted, said forward portion of said shaft being provided with a hole opening on the forward end of said shaft and separated radially from said axial bore and extending substantially longitudinally of said shaft and substantially parallel to said axial bore, said hole adapted to have inserted therein one end of said wire and arranged to position said one end of said wire substantially parallel to said axial bore, and guiding means for said wire on the forward end of the body of said tool, said tool adapted when said shaft is rotated to secure the said wire spirally about said one end of said terminal.

2,655,954

LEAD WIRE FEED MECHANISM FOR LAMP STEM FABRICATING APPARATUS

Stanley J. Gartner, Emporium, Pa., and Samuel E. Swasey, Marblehead, and Dwight J. Dwinell, Reading, Mass., assignors to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts

Application October 19, 1946, Serial No. 704,316
2 Claims. (Cl. 140—132)



1. Wire dispensing apparatus comprising: a reservoir for the wires, said reservoir having an opening in a wall thereof exposing the wires lying thereagainst; an elongated finger, for picking wires individually from said reservoir, mounted above said reservoir with a portion thereof lying opposite the opening in the wall of said reservoir, said finger having a duct therein extending longitudinally thereof and terminating at one end in a hole in a wire-receiving horizontal groove formed in one end of said finger, said finger having at least one slot cut in said end thereof transversely of said horizontal groove; means for connecting the other end of said duct to a vacuum source; and means for actuating said finger, to move it into engagement with the wires exposed by the opening in the wall of said reservoir.

2,655,955

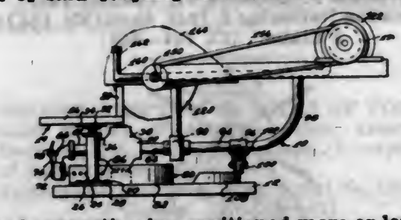
ANGULAR AND CROSS CUTTING POWER SAW

John Stanley Dziengiel, Jr., Whiting, Ind.

Application June 19, 1951, Serial No. 232,224
2 Claims. (Cl. 143—6)

1. In a power saw assembly, a base, a horizontally disposed work support positioned above said base adjacent the forward end thereof and connected to said base for vertical up and down movement, an upstanding ledge extending transversely along the rearward edge of said support, there being an opening extending through said ledge, an upstanding post arranged below said support adjacent said rearward edge thereof and directly below said opening in said ledge and

fixed to said base, a block surmounting said base and connected to said post for rotation thereabout, a horizontally disposed arm positioned longitudinally of said base and on the rearward side of said block and having one end fixed to said block, a coupling sleeve positioned longitudinally of said base and having one end connected to the other end of said arm, an upstanding arcuate guide track positioned adjacent the rearward end of said base and concave toward said ledge and fixedly secured to said base concentric with said post, a guide wheel dependingly carried by said coupling sleeve and rollably engaging said guide track, an upstanding curved arm having the lower end connected to the other end of said coupling sleeve, a horizontally disposed supporting bar positioned more or less longitudinally of said base and secured to the upper end of said curved arm, spaced tracks extending longitudinally of and supported on said bar, a carriage mounted on said tracks for sliding movement toward and away from said ledge, a circular saw arranged longitudinally of said carriage and mounted on the forward end of said carriage for rotary movement about a horizontal axis and cutting transverse over said work support, said saw passing through the opening of said ledge when said carriage has been moved over said ledge, means on said carriage and operatively connected to said saw for effecting the rotary movement of said saw, and hand actuable means operatively connected to said carriage for effecting the sliding movement of said carriage.

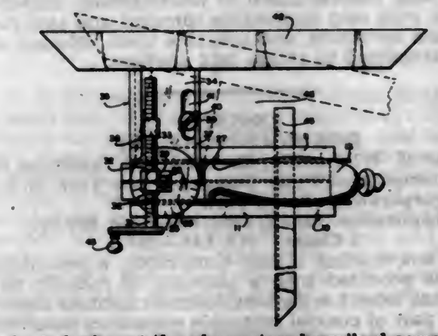


2,655,956

ANGULARLY ADJUSTABLE SAW GUIDE WITH BOARD CLAMP THEREON

Frend A. Taylor, Jefferson, Ohio

Application August 18, 1952, Serial No. 304,955
2 Claims. (Cl. 143—6)



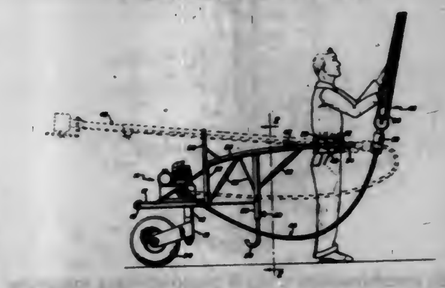
1. A device of the character described comprising a U-shaped frame having upper horizontal legs, lower horizontal legs, and a bight portion, a circular plate revolubly mounted upon said upper legs, a bar affixed to and extending outwardly from said plate, a socket slidably receiving said bar, a guide fence affixed at right angles to the outer end of said socket, means for locking said bar in selected positions in said socket, and means for locking said frame to a work piece, said last-named means including a horizontally extending pressure plate, pairs of links interconnecting said pressure plate with said lower legs, a transverse shaft carried by one of said pairs of links, a collar revolubly mounted on said transverse shaft, an elongated screw threaded through said collar, a supporting collar revolubly carried by said bight portion, said screw extending revolubly through said supporting collar, and a handle affixed to one end of said screw.

2,655,957

FLEXIBLE SHAFT DRIVEN TREE TRIMMER POWERED BY A MOTOR TOWED BY THE OPERATOR

Silas P. Lagant, Pocahontas, Ill.

Application May 11, 1950, Serial No. 161,333
6 Claims. (Cl. 143—43)



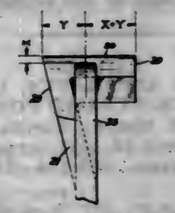
1. For use in an apparatus for trimming trees a carriage comprising a single caster wheel and an extending portion, a harness secured on said portion and adapted to be fastened on the body of an operator, whereby the carriage can be made to trail the operator, said harness comprising a waistband including a substantially semicircular portion, flexible straps secured to the ends of the semi-circular portion and a pair of trunnions on said semi-circular portion engaging said extending portion.

2,655,958

SAW CHAIN

Dewey E. Gemmel, Indianapolis, Ind., assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application February 19, 1951, Serial No. 211,741
5 Claims. (Cl. 143—135)



1. A saw chain cutter link comprising a planar body, a router tooth and a depth gauge projecting from said body generally in a common direction, said tooth comprising a shank deflected laterally in one direction from the plane of said body and a toe carried at the outer end of said shank, angularly related to said shank and traversing said plane to project laterally in the opposite direction beyond said plane, said toe and said shank being sharpened at their leading ends, the extent of said depth gauge being less than the extent of said shank, and the degree of pro-

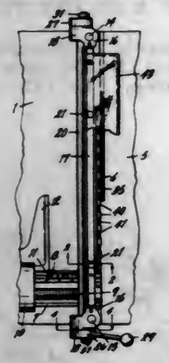
jection of said toe beyond said plane being equal to the degree of deflection of said shank from said plane increased by the difference between the extent of said shank and the extent of said depth gauge.

2,655,959

WORK CLAMP AND ALIGNING GAUGE FOR SAWING MACHINES

Edward C. Krueger and Adrian L. Vander Linde, Kalamazoo, Mich., assignors to Hammond Machinery Builders, Incorporated, Kalamazoo, Mich.

Application May 21, 1951, Serial No. 227,373
4 Claims. (Cl. 143—174)



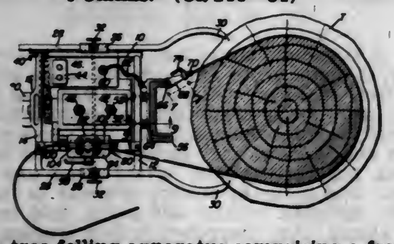
4. In combination with a plate sawing machine having a circular saw with a reciprocable work supporting table mounted to slide alongside the saw, a pair of fixed guides projecting above the front and rear of said table, head brackets slidably mounted on said guides and interconnected by a longitudinally extending beam, an adjusting shaft rotatably carried by said brackets, crank elements non-rotatably carried on said shaft, one of said elements having a face opposed to one of said brackets, crank pins eccentrically mounted on said crank elements with respect to said shaft, links connecting said pins to fixed points on said table, locating detents coacting between said one bracket and said one crank element, means forming a clamping surface along the under side of said beam to be reciprocated thereby above said table, and a sight gauge bar carried by said beam, between said saw and said beam and having a series of longitudinally spaced lateral projections thereon extending to the plane of the adjacent side of the saw.

2,655,960

TREE FELLING APPARATUS, INCLUDING A PRIME MOVER-DYNAMO POWER PLANT

Michael F. Murray, Eureka, Calif.

Application March 14, 1950, Serial No. 149,554
6 Claims. (Cl. 144—34)



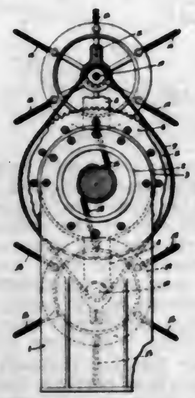
3. A tree felling apparatus comprising a frame, means for attaching the frame to a tree, a Nichrome wire attached to the frame at one end, a prime mover-dynamo power plant mounted on the frame for heating the wire, and means supported on the frame and operatively connected to the power plant for tightening the wire about a tree, said last-named means including a pair of driven gears and a pair of idler gears, said wire being disposed between said driven gears and said idler gears with the teeth of said gears engaging the wire.

2,655,961

LOG DEBARKER HAVING REVOLVING FLAILS

William P. McComb, Jr., Conroe, Tex.

Application November 8, 1949, Serial No. 126,199
1 Claim. (Cl. 144—208)



A log debarker comprising a supporting frame including a stationary drum, an annular crosshead surrounding the drum and rotatable thereon, annular rotatable anchors mounted on the crosshead to revolve with the crosshead about the axis of the drum, means for rotating the crosshead, flexible debarking elements attached at peripherally spaced points on the margins of the anchors, an annular sprocket immovably secured to said drum in concentric relation to the axis of the drum and having external peripheral teeth, a rotatable sprocket connected in driving relation with each of said anchors, and a non-traveling endless chain in intermeshing engagement with said immovable sprocket and said rotatable sprockets, and operable upon rotation of the crosshead to rotate said anchors.

2,655,962

BOX HOLDING CLAMP

Oscar H. Williamson, Riverside, Ill., assignor to International Paper Company, New York, N. Y., a corporation of New York

Application June 1, 1951, Serial No. 229,391
1 Claim. (Cl. 144—297)

A box-holding clamp comprising a mounting spider provided with a plurality of radially extending lobes having longitudinal channels therein, a pair of coaxial rotatable eccentrics mounted in said spider and disposed substantially at right angles to each other, a pair of straps engaged thereon, a pair of radially disposed movable arms attached to said straps and extending through associated channels of a first pair of said lobes, a pair of radially disposed stationary arms oppositely disposed with respect to said movable arms and firmly attached within associated channels of a second pair of said lobes, a clamp member adjustably attached to each said arm, and an operating handle positioned on the opposite side



of said spider from said clamp members and connected to said eccentrics.

2,655,963

FINGER GRIP FOR HANDLES OF TOOLS

Russell H. Dell, Stonington, Conn., assignor to Bostitch, Inc., Stonington, Conn., a corporation of Rhode Island

Application March 18, 1950, Serial No. 150,452
4 Claims. (Cl. 145—61)



1. In combination with a handle member having a resilient grip of rubber or like material enclosing the same, means for securely fastening the grip from displacement on the handle consisting in a metal latch embedded in the material of the grip and provided with detent means engaging a slot in the handle, said latch formed with a tab at its end projecting upwardly in inclined relation at the side of the detent means to provide for the insertion of an instrument into the end of the grip to pry the detent means out of its holding slot.

2,655,964

SCREW TAPER DRILL ATTACHMENT

Joseph A. Labbeé, Jr., Providence, R. I.

Application February 16, 1951, Serial No. 211,367
2 Claims. (Cl. 145—125)



2. A drill element of flat sheet metal stock for a screw taper drill attachment comprising a shank having an upper and a lower portion, said upper and lower portions being in the same plane, and a depending drill tip tapering downwardly and twisted to conform to the body contour of a screw and having spiral cutting edges, said upper shank portion having lower countersink edges and said lower shank portion conforming to the shank contour of a screw, and means on said shank for mounting said drill element in a rotatable support.

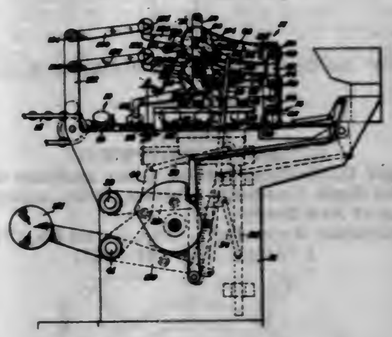
2,655,965

EGG BREAKING MACHINE

James C. Gill, Indianapolis, Ind.

Application July 10, 1952, Serial No. 298,082
12 Claims. (Cl. 146—2)

1. In an egg breaking machine, means for supporting an egg to be broken, means for penetrating the shell of such an egg substantially in the median plane transverse to the longitudinal axis of the egg and for exerting opposite, separating forces upon said shell at the points of penetration, and means for holding such an egg against bodily movement during operation of such shell-penetrating and force-exerting means, comprising a first presser means movable into and out of engagement with such an egg substantially in said median plane and substantially diametrically opposite such points of penetration, a second presser means movable into and out of engagement with such an egg at points oppositely spaced from said plane and on the side of said axis opposite said points of penetration, brake means cooperable with said first presser means to hold the same, at times, in engagement with an egg, lifter means cooperatively associated with said first presser means to shift



the same, at times, out of such engagement, operating means for said brake means and said lifter means and connected to release said brake means before shifting said first presser means out of such engagement and to set said brake means after depositing said first presser means in such engagement and releasing the same, other brake means cooperable with said second presser means to hold the same, at times, in engagement with an egg, other lifter means cooperatively associated with said second presser means to shift the same, at times, out of such engagement, and other operating means for said other brake means and said other lifter means and connected to release said other brake means before shifting said second presser means out of such engagement and to set said other brake means after depositing said second presser means in such engagement and releasing the same.

2,655,966

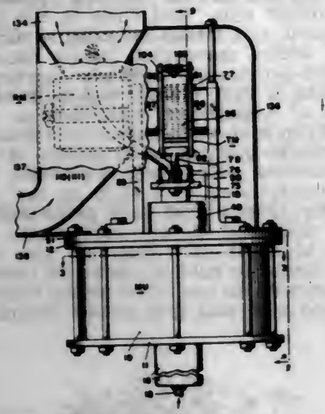
GARBAGE DISPOSAL UNIT

Carl D. Russell, Muskogee, Okla.

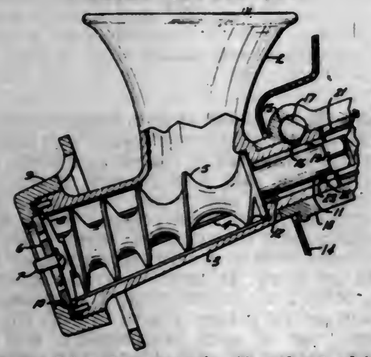
Application February 17, 1950, Serial No. 144,738
7 Claims. (Cl. 146—122)

1. In waste disposal apparatus, waste reducing means comprising a pair of rotary intermeshing cutting cylinders arranged with their axes parallel, each including a plurality of cutter bars extending lengthwise of the cylinder and being circumferentially spaced about the periphery thereof an amount corresponding substantially to the overall cutter-bar width whereby the cutting bars of the cylinders may intermesh, said cutter bars comprising a body portion and a tooth portion protruding radially outwardly therefrom,

said tooth portion being offset rearwardly from the front face of the body portion and being forwardly inclined and terminating in a cutting edge.



2,655,967
MEAT CHOPPER
Donald D. Mallory, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application December 8, 1949, Serial No. 131,753
1 Claim. (Cl. 146—182)



In a machine for comminuting food which has a downwardly inclined feeding barrel, an ingress opening leading into said barrel and a perforated discharge plate across the lower end of said barrel, in combination, a feeding worm rotatably mounted in said barrel for feeding food therethrough and against the inner side of said plate, a rotary knife driven by engagement with said worm and forming a lower end bearing therefor, said knife bearing against the inner surface of said plate for severing food particles, a clamping member on the exterior of said barrel at its lower end for holding said plate thereon, a driving member extending into the upper end of said barrel and having a disengageable driving connection with said worm which is disengaged merely by relative axial movement of said worm, the said driving member having a smooth cylindrical portion, a bearing consisting of a stationary sleeve within which said smooth cylindrical portion is journaled for free rotation, said sleeve having an interior annular groove therein, and a resilient ring lying loosely within said annular groove and frictionally embracing said smooth cylindrical portion whereby said resilient ring revolves with said smooth cylindrical portion freely in said annular groove and yieldingly permits longitudinal movement of said cylindrical portion when said feeding worm is to be withdrawn from said feeding barrel.

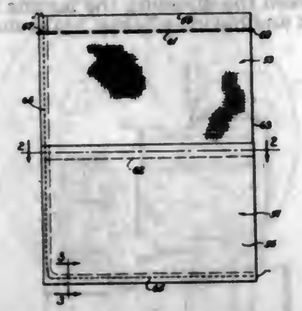
2,655,968
TOOTHBRUSH COVER
Verne P. Simmons, New York, N. Y.
Application March 8, 1951, Serial No. 214,519
1 Claim. (Cl. 150—0.5)



A protective cover for the brush portion of a tooth brush comprising a five walled box having integral side and bottom walls, consisting of resilient polyethylene material and being open at one end, a platform integral with a first wall extending outwardly from said open end of said box, said platform consisting solely of polyethylene material, a closure member adapted to fit said open end of said box shiftable between open and closed positions and consisting of polyethylene material, a semi-rigid spring hinge strip composed of polyethylene material attached to and integral with a second of said walls and said closure member, said second wall being diametric to said first wall, an outer end of said closure member being opposite to the hinged end of said closure member, toe portions on said opposite outer end bearable against and in contact with said platform, interengaging means on the closure and the adjacent surfaces of the side walls, disengageable under a compressive force applied on said side walls through the compression of said first and second walls, means on said closure for maintaining said closure rigid against said compression of said side walls and to receive said force from said platform.

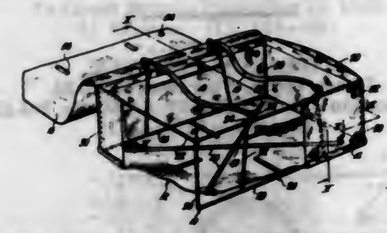
2,655,969
BAG OF OPEN-MESH MATERIAL AND PAPER
Charles V. Brady and August F. Ottinger, St. Louis, Mo., assignors to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri
Original application October 9, 1948, Serial No. 53,708. Divided and this application March 9, 1951, Serial No. 214,794
7 Claims. (Cl. 150—1)

3. A bag formed of a generally rectangular blank comprising a generally rectangular top section consisting of open-mesh material extending the full width of the blank but only part of its height, and a separate generally rectangular bottom section of paper extending the full width of the blank and the remainder of its height, said sections being arranged with the lower widthwise marginal edge portion of the open-mesh section and the upper widthwise marginal edge portion of the paper section overlapping and secured together, thereby uniting the sections to form the blank, the blank being folded upon a fold line which extends heightwise across the open-mesh section and the paper section to have the marginal edges of the blank substantially co-



incident, the coincident edges of the folded blank opposite the fold and at the paper end of the folded blank being seamed to form an open-mouthed bag having a ventilating panel at its upper end formed by the open-mesh section, and having its bottom consisting of paper.

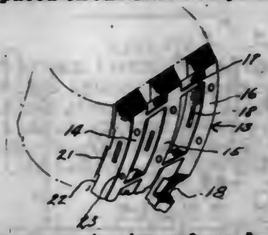
2,655,970
COLLAPSIBLE BASKET
Warren Terry, Kansas City, Mo.
Application September 8, 1952, Serial No. 308,445
3 Claims. (Cl. 150—49)



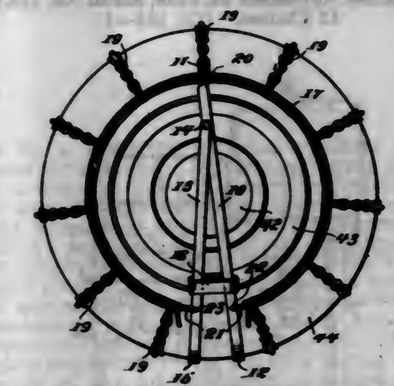
1. In a collapsible basket of the kind described, a collapsible framework; a covering of flexible material for the framework; a rigid panel forming the bottom of said basket and having a continuous, upstanding flange portion secured to the covering; and a pair of flexible handles extending across the top of said basket, the framework comprising a polygonal rim, a pair of U-shaped side members having the ends of their legs swingably secured to the said rim at opposite corners thereof and their base portions extending along the bottom of said panel in engagement therewith, an H-shaped tie member on each side member respectively having a pair of legs secured to the base of the side member and a pair of legs coiled about the said rim, extending thereabove, and terminating in a pair of eyelets, said handles joining opposed pairs of eyelets, said panel having a number of upstanding ribs bearing against said base portions to hold the side members against the flexible covering.

2,655,971
ANTISKID DEVICE
Eugene Gross, Brooklyn, N. Y., assignor of one-third to Elizabeth Neufeld, New York, N. Y.
Application February 1, 1949, Serial No. 73,989
5 Claims. (Cl. 152—175)

2. A vehicle tire anti-slip and saving device formed of a plurality of laterally spaced circumferentially extending portions, said portions being adapted to be stretched about the tire upon the tire being inflated, and integral spacing portions connecting the laterally spaced circumferentially extending portions together against relative displacement from one another, and said laterally spaced circumferentially extending portions having engaging inner faces for the engagement of the device with the tire tread, each of said circumferentially extending portions having alternate serrated and plain faces to provide good gripping action with the tire tread, the serrated faces having the serrations extending circumferentially.



2,655,972
TIRE CHAIN FASTENER
Roy N. Doney, Auburn, N. Y.
Application March 26, 1952, Serial No. 278,581
5 Claims. (Cl. 152—213)

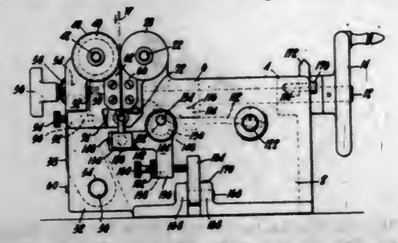


1. A non-skid device comprising a tire chain, a bar connected at one of the ends thereof to said chain at a point intermediate of the ends of the chain and having a hook on the opposite end, a lever pivotally connected to the bar at a point spaced from the end of the bar attached to the chain, said lever also having a hook on one end and said hook being positioned on the end opposite to the end pivotally connected to the bar, and a band extended around and slidably mounted on the bar and lever, said chain adapted to be positioned on a tire of a motor vehicle wheel with hooks of the bar and lever extended around said tire.

2,655,973
SPRING COILER
Edward H. Heelsch, Worcester, Mass., assignor to Perkins Machine & Gear Company, West Springfield, Mass., a corporation of Massachusetts
Application May 14, 1951, Serial No. 226,212
7 Claims. (Cl. 153—65)

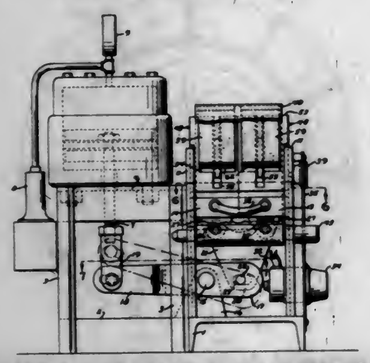
1. A coiler for making a spring from a wire comprising a frame, a coiling point mounted on said

frame, said coiling point having a groove therein, means for feeding said wire into said groove, said frame having a hole therein adjacent the coiling point, an arbor sleeve in said hole, a guide portion on said arbor sleeve having an edge thereof in substantial alignment with the groove in said coiling point, said sleeve having an axial



hole therein, an arbor mounted in said axial hole, a pin mounted eccentrically on the outer end of said arbor and spaced from the edge of said guide portion a distance slightly greater than the diameter of said wire, and a pitch tool mounted on said frame with a portion thereof adjacent said arbor pin.

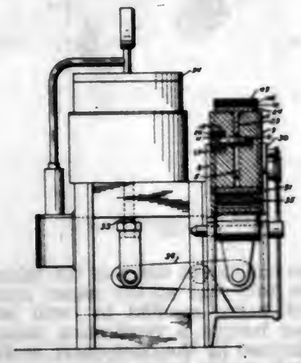
2,655,974
BRAKE SHOE BONDER
James C. Heintz, Jr., Lakewood, Ohio
Application November 23, 1949, Serial No. 129,118
15 Claims. (Cl. 154—1)



1. A brake-shoe bonder for bonding friction lining material to a brake shoe which comprises a pressure member adapted to fit against the lining, a heat-conductive outwardly curved, elongated mandrel with a longitudinal groove therein for supporting the brake shoe and a guideway therefor, a pressure cylinder equipped with a piston, means to transmit force exerted by the piston to the mandrel and means for heating the mandrel.

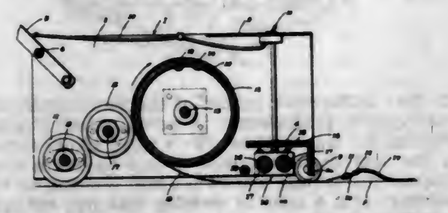
2,655,975
APPARATUS AND METHOD FOR ADHESIVELY BONDING FRICTION LINING TO BRAKE SHOES
James C. Heintz, Jr., Lakewood, Ohio
Application November 23, 1949, Serial No. 129,119
6 Claims. (Cl. 154—1)

1. A metal mandrel for a brake-shoe liner adapted to support therein a brake shoe formed of a flange and a web perpendicular thereto, which mandrel has a substantially flat bottom and comprises two mating divisions, the top surfaces of the two divisions being identically curved, the two halves of each curved surface being substantially symmetrical, said surfaces being adapted to contact the underside of the flange of the brake shoe and being adapted to support the same when the web of the brake shoe is located between the divisions, the mating divisions being solid and having efficient heat conductance



from the bottom to the top surfaces thereof, the inner surfaces of the two divisions being adapted to abut one another with no overlapping adjacent the curved edges in order to permit the insertion of the web of the brake shoe, the divisions being joined by means with respect to which at least one of the divisions is slidable, and spring means pressing the divisions toward each other.

2,655,976
LINOLEUM REMOVER
James Levin, Sacramento, Calif.
Application January 8, 1951, Serial No. 205,021
4 Claims. (Cl. 154—1)

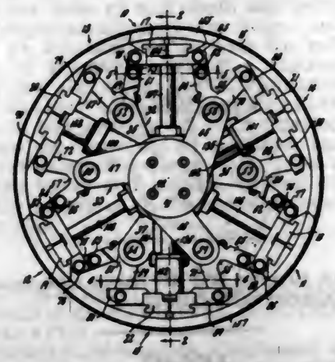


1. A linoleum remover comprising a frame, wheel means supporting the frame for advancing movement along a side-cut strip of linoluem on a floor, a linoleum strip receiving roll journaled transversely in the frame above the floor, said wheel means including transversely spaced friction faced wheels, friction bands on the roll in alinement with said wheels, intermediate friction faced rollers engaged between corresponding wheels and bands in driving relation to the roll, the roll turning upward at the rear, and means to connect one end of the linoleum strip to said roll for pick-up thereby upon advance of the frame.

2,655,977
COLLAPSIBLE BUILDING DRUM
Hollis C. Hodgkins, Chippewa Falls, Wis., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application September 21, 1951, Serial No. 247,649
10 Claims. (Cl. 154—9)

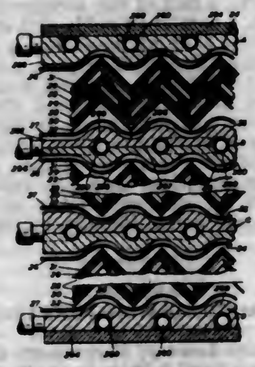
1. A collapsible building drum comprising in combination a plurality of arcuate segments defining a circular building surface, a central

axial supporting hub within said segments, and radially extending actuating means movable in



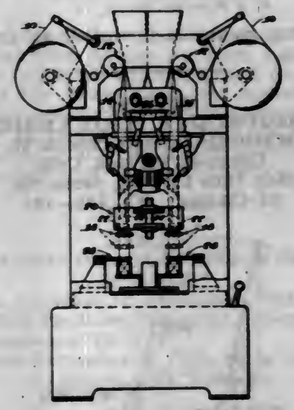
a purely radial direction attached between said segments and said hub for collapsing and expanding said segments.

2,655,978
METHOD AND MEANS FOR MANUFACTURING CORRUGATED PLASTIC LAMINATES
Desiré Gonda and Alfred Ansell Hodge, New Hythe, near Maidstone, England, assignors to Holoplast Limited, New Hythe, near Maidstone, England, a British company
Application December 23, 1950, Serial No. 202,459
In Great Britain December 29, 1949
21 Claims. (Cl. 154—30)



7. A machine for pre-forming flexible sheet material to a preliminarily corrugated form, such machine comprising a base frame and a head movable at will towards and away from said base frame; driven feed means for frictionally engaging the sheet material on opposite sides thereof and for feeding such material edgewise through the machine in the direction in which the corrugations are to extend along the material; two series of side-by-side convergent guide plates arranged in spaced co-operative relationship to furnish between them a gap for the passage of the sheet material edgewise therebetween, the said two series of guide plates being carried respectively by the said head and the said base frame and those guide plates of the two series being so shaped that the said gap is of substantially planary form at the feed end of the machine but progressively assumes from this end a transversely corrugated form, the corrugations of the gap gradually increasing in amplitude and decreasing in pitch towards the discharge end of the machine whereby, as the sheet material is fed by the said feed means through the said gap, the sheet material is displaced along convergent straight lines perpendicularly out of its original plane to a progressively increasing extent whilst the sheet material is simultaneously drawn inwardly in a direction transverse to its line of feed.

2,655,979
CONTAINER FORMING APPARATUS
Lewis B. Eaton, Quincy, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application March 30, 1950, Serial No. 152,964
18 Claims. (Cl. 154—42)

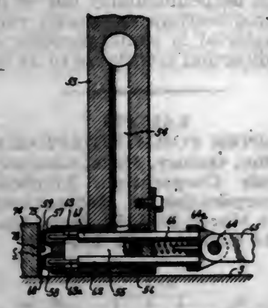


1. In a container forming machine having means for supporting and intermittently advancing a strip of folded bag forming material one bag section each cycle of operation, the improvement comprising heat sealing mechanism comprising a pair of cooperating sets of sealing members arranged to simultaneously heat seal two different areas of the strip comprising a longitudinal area and a transverse area spaced from the longitudinal area, means for bodily moving the cooperating sealing members into and out of operative engagement with the strip during the idle periods of the intermittently advanced web to perform successive sealing operations, the cooperating members for sealing the longitudinal area being elongated beyond the length of one bag section so that successive sealing operations form overlapping sealed portions along the longitudinal area to form a series of completely sealed and connected bag sections.

2,655,980
BONDING MACHINE
Alfred E. Carlile, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania
Application March 15, 1952, Serial No. 276,767
7 Claims. (Cl. 154—42)

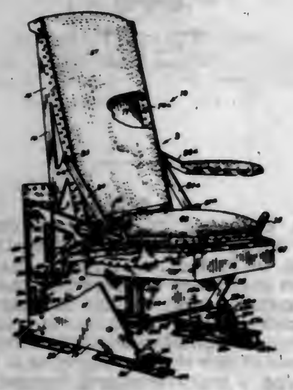
1. In a machine of the class described, a pair of oppositely disposed rotatable rollers, means for delivering and guiding the edges of plies of material into and between said rollers, means for driving said rollers, at least a pair of jets for applying a fluid material to the surface of at least one ply of material adjacent the edge thereof, a plunger arranged within each of said jets for preventing unintentional flow of fluid material therefrom when the driving means is arrested, and means moving the jets relative to

said plungers so as to permit the fluid material to pass through said jets to said material when



said driving means is in operation and driving said rollers.

2,655,981
ADJUSTABLE PILOT CHAIR
John C. Whittingham and Proctor W. Nichols, Colorado Springs, Colo.
Application June 16, 1950, Serial No. 168,546
18 Claims. (Cl. 155—14)



11. An adjustable chair comprising, a chair support, a frame horizontally movable relative to the support, means for selectively securing said frame to the support at a desired position of horizontal adjustment, a seat and back rest carrier vertically movable relative to said frame, means for selectively securing said carrier to said frame at a desired position of vertical adjustment, a seat pivotally connected at its rear end to said carrier, a back rest connected to said carrier at its lower end by a pivotal connection, the pivotal connection being disposed between vertical planes that bound the front and rear ends of said seat, linkage means interconnecting said seat and back rest adapted to angularly move one in response to angular movement of the other, and means for selectively securing the seat and back rest to the carrier at a desired position of adjustment.

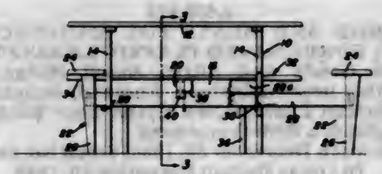
2,655,982
ORTHOPEDIC CHAIR
William J. Christensen, Salt Lake City, Utah
Application July 5, 1949, Serial No. 103,052
19 Claims. (Cl. 155—30)

15. In an orthopedic chair, mutually spaced front and back standards; rigid structure rigidly interconnecting said front and back standards, and a chair seat of sling formation extending between and anchored in said standards, said chair seat comprising a pair of flexible straps extending



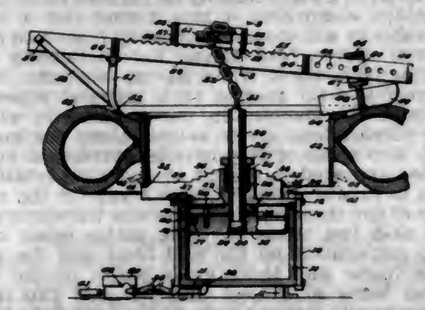
from front to rear and arranged side-by-side in mutually spaced relationship.

2,655,983
ARTICLE OF FURNITURE
Karl M. Jacobs, Fowler, Ind.
Application August 24, 1950, Serial No. 181,236
4 Claims. (Cl. 155—123)



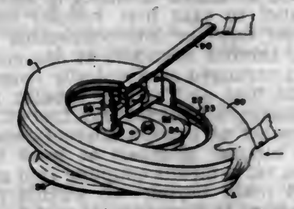
1. An article of furniture comprising an elongated table top, a pair of end members supporting the table top, a combined guide and strenthening channel joining said end members, a pair of end seats including supporting legs, a pair of longitudinal arms secured to said end seats and slidably received in the ends of said channel, said channel having spaced side walls with registering openings intermediate their ends, a pair of side seats including supporting legs, and transverse arms mounted on said side seats and disposed in side by side contacting relation, said transverse arms being slidably received in said openings.

2,655,984
POWER ACTUATED ADJUSTABLE TIRE DEMOUNTING BAR
Aubrey Lowrey, Shreveport, La.
Application April 3, 1950, Serial No. 153,590
3 Claims. (Cl. 157—1.17)



1. In a demounting stand for pneumatic tires, a pneumatic cylinder having pressure actuated means therein, a piston rod extending upwardly from said means, supporting means carried by the upper end of said cylinder for supporting a wheel rim, a chain having one end connected to said piston rod, a presser bar forming a lever, a saddle mounted on the lever intermediate the ends thereof and having means for selectively engaging the links of said chain and being adjustable longitudinally of the lever, cooperating means on the saddle and lever for holding the saddle in adjusted position, a fulcrum device loosely and adjustably pivotally mounted on one end of the lever to permit rocking of the fulcrum device on the lever and a pusher device depending from the other end of said lever and including a rib extending downwardly from said lever with the lower end portion thereof curved toward the middle of the lever and tapered to form a knife edge.

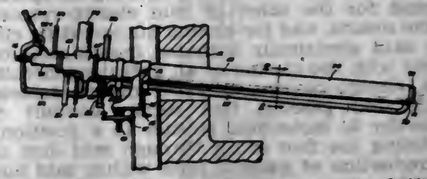
2,655,985
CIRCUMFERENTIALLY TRAVELING SUPPORT-MOUNTED TIRE MOUNTING APPARATUS
Robert D. Henderson, Cincinnati, Ohio
Application September 23, 1950, Serial No. 186,437
2 Claims. (Cl. 157—1.24)



1. A tool for mounting tire casings onto drop center rims, which comprises, means for supporting a wheel upon which a tire is to be mounted, a bearing plate constructed and arranged to abuttingly engage and ride upon the outer side periphery of the rim portion of said wheel, a mounting blade fixedly secured to said plate and including leading, intermediate and trailing portions disposed in planes at substantial right angles with said bearing plate, the said leading portion of said mounting blade comprising an inturned face disposed interiorly of the peripheral side edge of the rim, the said trailing portion including a depending element which overhangs and extends outwardly of and below the peripheral side edge of the rim, and said intermediate portion interconnecting said leading and trailing portions, means for rotatably securing said mounting blade at the center of a wheel mounted on said wheel supporting means for rotation about the axial center of the wheel, and a lever for actuating said mounting blade rotationally about the rim of said wheel, said bearing plate including a lip which extends outwardly beyond the outer face of the mounting blade between its leading and intermediate portions for providing a supporting surface engageable by the inner edge of the upper bead of a tire casing being mounted onto said rim incident to translation of said bead edge across the peripheral edge of the rim.

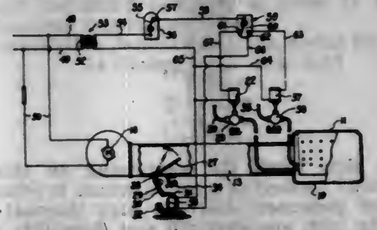
2,655,986
BURNER OF THE PROJECTED FLAME TYPE
James William Pennington, Chicago, Ill., assignor to Inland Steel Company, Chicago, Ill., a corporation of Delaware
Application August 23, 1950, Serial No. 181,022
24 Claims. (Cl. 158—11)

1. A burner of the class described, comprising in combination an inner elongate main tube having a cooling jacket, the inner tube being open at its forward and rearward ends, means for supplying gaseous fuel to the rearward end of said inner main tube for discharge from the forward end thereof, a viscous fuel delivery tube and a delivery tube for a combustion supporting gas, both extending lengthwise within the inner main tube, and each having a forward open end terminating near the forward end of the inner main tube, a pair of jacket tubes, one surround-



ing each of the delivery tubes in spaced relation, each jacket tube having an open forward end, means for supplying a heating fluid to the spaces defined by the jacket tubes, for maintaining an elevated temperature of the delivery tubes, and means for supplying viscous fuel and a combustion supporting gas to the respective delivery tubes for discharge from the forward open ends thereof.

2,655,987
COMBINATION OIL-GAS FIRED CONVERSION BURNER
Edward A. Norman, Jr., Columbus, Ohio, assignor to Norman Products Company, Columbus, Ohio, a corporation of Ohio
Application November 22, 1950, Serial No. 197,977
5 Claims. (Cl. 158—11)



1. A combination oil and gas-fired conversion burner comprising a vertically arranged open-mouth burner vessel having perforate side walls; an imperforate casing surrounding the side walls of said burner vessel and arranged to be positioned within the combustion chamber of a normally solid fuel-burning furnace; a substantially horizontally arranged air duct communicating at one end with said casing and arranged to extend outwardly and exteriorly of a furnace in which said casing is positioned; a blower communicating with the opposite end of said duct for supplying forced air to said casing and to said vessel by way of the perforate side walls thereof; damper valve means including a shutter in said duct movable between positions permitting of free or restricted flow of air through said duct, said shutter being movable by gravity to a position permitting free flow of air through said duct; electrically actuated means engageable with said damper valve means and energizable to move the shutter to a position restricting the flow of air through said duct; a liquid fuel supply conduit communicating with said vessel; a separate gaseous fuel supply conduit communicating with said vessel; a pilot burner positioned in said vessel for directing a pilot flame downwardly against the bottom thereof and for igniting liquid or gaseous fuels introduced to said vessel by way of

said fuel supply conduits; electro-responsive valve means connected with each of said fuel supply conduits and energizable to permit the free passage of fuels through said conduits and to said vessel; and switch means having electrical connections respectively with each of said electro-responsive valve means and with said electrically actuated means and operable selectively to close an operating circuit for either of the electro-responsive valve means while opening an operating circuit for the other of said electro-responsive valve means, and for closing an operating circuit for said electrically actuated means simultaneously with the closing of an operating circuit for the electro-responsive valve means associated with said gaseous fuel supply conduit only, whereby to move said shutter to a position restricting the flow of air through said duct upon introduction of gaseous fuels within said burner vessel.

2,655,988

GAS TORCH TIP HAVING PROTECTIVE TERMINAL SHOE

Daniel A. Marra, Cheswick, Pa.

Application May 24, 1947, Serial No. 750,183
3 Claims. (Cl. 158—27.4)



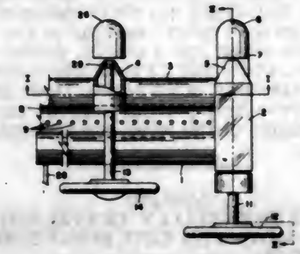
1. A blow torch tip comprising an elongate outer body formed of a metal which is relatively soft and possesses relatively high thermal conductivity with low strength and durability when exposed to steel at welding temperature in the presence of oxygen, said body having a head end, a delivery end and a longitudinal bore, and a perforate terminal protecting shoe at said delivery end formed of a relatively hard, highly refractory sintered carbide having relatively low thermal conductivity with high strength and durability when exposed to said temperature in the presence of oxygen, said tubular body and said perforate shoe being partially telescoped one within the other, with the perforation in the shoe aligned with the bore in said elongate body, to provide a continuous passage throughout the elongate body and shoe of the assembled tip structure, said shoe having a relatively thin outer disc portion and an integral body or shank portion of smaller cross section than the disc portion whereby a peripheral shoulder is formed between said shoe portions, the disc portion of said shoe overlying the delivery end of said outer body in intimate contact therewith, the substance of said elongate outer body being impressed and shaped upon the shank portion and shoulder of said shoe to provide a uniformly distributed reinforcement of the shoe against thermal and mechanical shocks encountered in service and also to provide a hermetic union of the parts that is indestructible without the intentional substantial destruction of said outer elongate body.

2,655,989

BURNER SYSTEM FOR LIQUID FUELS

Roberto Martiri, Buenos Aires, Argentina

Application December 24, 1948, Serial No. 67,168
In Great Britain December 30, 1947
3 Claims. (Cl. 158—58)



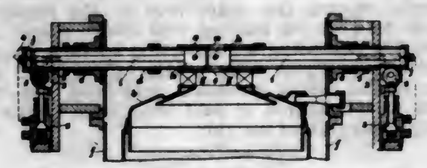
1. A burner system for hydrocarbon fuel, comprising a first tubular member defining a gasifier chamber, a second tubular member defining a gas chamber and arranged adjacent to and substantially parallel to said first tubular member, a third tubular member interconnecting said first and second tubular members at one end portion thereof and arranged substantially normal to the axes of said first and second tubular members, means to supply a hydrocarbon fuel to said first tubular member at a point thereof remote from said third tubular member, at least one main burner, first valve means coupling said gas chamber to said main burner, an auxiliary heating burner arranged to heat at least said first tubular member, first vaporized fuel supply means connected between said auxiliary heating burner and said gas chamber, and second valve means arranged in said third member, each of said valve means comprising a head member and an actuating rod member arranged substantially normal to the axis of said second tubular member and substantially parallel to the axis of said third tubular member, the head member and part of the rod member of said second valve means being enclosed within said third tubular member.

2,655,990

LIQUID FUEL BURNER WITH REPLACEABLE FUEL NOZZLES

Eric Samuel Collinson, Higher Brunshaw, Burnley, England, assignor to Joseph Lucas Limited, Birmingham, England

Application November 9, 1951, Serial No. 255,607
In Great Britain November 28, 1950
2 Claims. (Cl. 158—76)



1. A liquid fuel burner comprising the combination with a support adapted to be mounted on a combustion chamber and having therein a cylindrical bore provided with a lateral aperture through which the liquid fuel in spray form can be discharged into the combustion chamber, of a slidable tube extending through and in both directions from the support, means for sliding the tube relatively to the support, the tube having therein a pair of lateral apertures which can be brought by sliding movements of the tube into and out of a position opposite to the lateral aperture in the cylindrical bore of the support a pair of removable fuel injection nozzles situated adjacent to each other and to the lateral apertures in the tube, and means associated with the tube-sliding means for controlling the supply of liquid fuel to the nozzles, the arrangement being such that by axial movement of the tube relatively to the support, either nozzle can be moved into a service position at the same time as the adjacent lateral aperture in the tube is brought opposite to the lateral aperture in the support.

2,655,991

RADIANT GAS BURNER

Walter Kennedy, Cliffside Park, N. J.; The United National Bank of Cliffside Park, Bergen County, N. J., administrator of said Walter Kennedy, deceased, assignor to William D. Kennedy, Englewood, N. J.

Application November 2, 1948, Serial No. 57,917
11 Claims. (Cl. 158—113)



1. In radiant burners of the class described comprising an elongated housing with a plurality of burner tubes extending from said housing in spaced parallel relationship to each other, each tube comprising a pair of elongated strips of semi-circular cross-sectional form and terminating at side edges in laterally extending flanges, said flanges being offset at longitudinally spaced intervals, means securing the flanges of said parts together, intermediate the offset portions, to form longitudinally of side edges of the burner tube discharge nozzles, radiant elements supported on said flanges and extending longitudinally between adjacent tubes, each of said elements comprising an upwardly curved wire mesh strip, and a perforated inverted U-shaped member supporting each strip, and said strips overlying and being arranged directly above all of said nozzles.

2,655,992

MIXER FOR GAS BURNERS

Louis Georges Mathieu Le Renard, deceased, late of Paris, France, by Suzanne Simone Denise Le Renard née Herrenschmidt, administratrix, Paris, France, assignor to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude, Paris, France, a joint-stock company of France

Application November 6, 1947, Serial No. 784,486
In France November 6, 1946
8 Claims. (Cl. 158—27.4)

1. A gas burner having an injector, a mixer, means including a first duct for carrying a combustible gas to the injector, means including a second duct for carrying a combustion-supporting gas to the injector, said means including said first duct, said means including said second duct, and said injector being so constructed and arranged that the combustion-supporting gas acts as the inducing gas and the combustible gas acts as the induced gas in the injector, and a laminar flow-producing structure in said second duct comprising at least one elongated member extending rectilinearly longitudinally thereof and substantially coextensive therewith, said elongated member being of such configuration that said second duct is divided into a plurality of parallel passages, the lengths of said passages being at least ten times as great as their largest transverse dimensions, whereby the combustion-supporting gas passing therethrough to the injector is maintained in a laminar state.



2,655,993

CONTROL DEVICE FOR GUN PERFORATORS

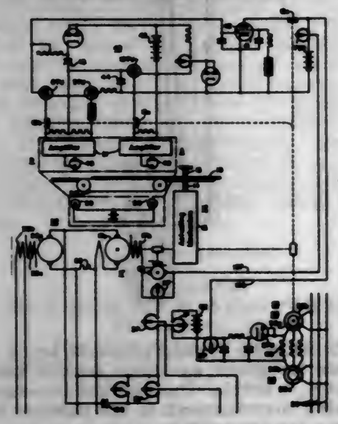
Lloyd Spencer, South Pasadena, Calif., assignor of thirty-three and one-third per cent to Thomas C. Bannon, Altadena, and thirty-three and one-third per cent to John D. Chesnut, Newport Beach, Calif.

Application January 22, 1948, Serial No. 2,673
14 Claims. (Cl. 164—0.5)



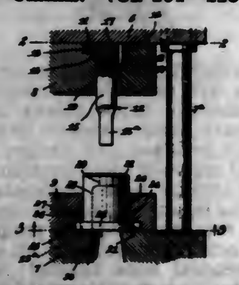
1. A gun perforator adapted to be lowered on a cable into a well casing and comprising: a series of gun units; a firing means for said gun units; a primary arming means having an initially unarmed position and caused to arm by predetermined repeated reciprocation in said casing; a second arming means associated with said primary arming means and having unarmed positions at the extreme zones of reciprocation of said primary arming means and an armed position at the central zone thereof; said arming means individually restraining said firing means when in their unarmed positions.

2,655,994
CONTROL SYSTEM FOR CUTTING APPARATUS
Frank Vandenberg, East Aurora, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 31, 1950, Serial No. 165,207
9 Claims. (Cl. 164—49)



2. The combination with a motor connected in driving relation with a shear for cutting a moving length of material, light sensitive means connected to produce impulses spaced in accordance with the speed of the material, a timer having a plurality of timing circuits disposed to be controlled by said impulses to produce an impulse signal in delayed relation with the passage of the material past the light sensitive means, said delayed relation being determined by the interval between the impulses, generating means connected to supply electrical energy to the motor including a regulator responsive to said impulse signal, tachometer means operable to provide a voltage proportional to the speed of the shear, position responsive means operable to produce a voltage variable in accordance with the position of the shear, and circuit means connecting the tachometer means and the position responsive means to the regulator with the timer and position responsive voltages opposing the voltage of the tachometer means, for controlling operation of the generating means.

2,655,995
MEANS FOR REGISTERING NONCYLINDRICAL PUNCHES AND DIES
Lawrence V. Whistler, Kenmore, N. Y., assignor of one-half to Lawrence V. Whistler, Jr., Tonawanda, N. Y.
Application September 25, 1948, Serial No. 51,164
7 Claims. (Cl. 164—118)



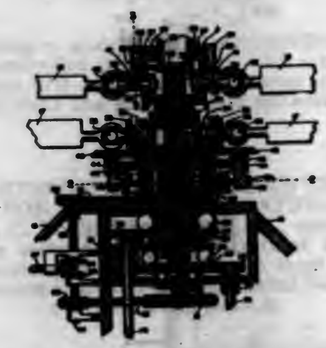
1. Punch and die mechanism for punching non-cylindrical holes in a sheet of metal or other like work-piece, comprising spaced-apart tool carriers movable relatively toward and from each other, a tool holder secured to one of said carriers and having a cylindrical tool-receiving hole therethrough perpendicular to the outer face thereof enlarged at its inner end to form a recess in the inner face of said tool holder, an integral punching-tool having a cylindrical body-portion rotatably adjustable with a press-fit in said tool-receiving hole and having a non-cylindrical hole-forming portion at one end and a laterally-projecting extension at its other end entered in said recess and rotatably adjustable therein through an arc of a circle when rotatably adjusting said cylindrical body-portion in said tool holder, said other end being in contact with said carrier, means to hold said laterally projecting extension from rotatable movement in a horizontal plane after being rotatably adjusted, and a second punching-tool secured to the other of said tool carriers and having a non-cylindrical hole-forming portion for mating coaction with the hole-forming portion of said first-mentioned punching-tool, said laterally-projecting extension contacting the inner end wall of said recess and the inner end face of said punching-tool contacting the tool carrier to which said tool holder is secured, whereby said first-mentioned punching-tool will be held against axial movement and the non-cylindrical hole-forming portion thereof be brought into registration with the hole-forming portion of said second punching-tool so as to effect a punching operation in a work-piece interposed between said punching tools.

2,655,996
PARAFFIN CLEANER
Charles W. Earl and William H. Middleton, Seminole, Tex.
Application October 4, 1951, Serial No. 249,738
6 Claims. (Cl. 166—18)



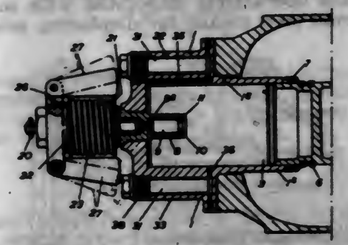
2. A gas and liquid actuated paraffin cleaner for flowing oil wells, comprising an elongate body, a cup carried thereby and adapted to partition a well pipe in which it is positioned to receive thrust from the well flow to raise the body, means encircling the body and movable in one direction relative thereto to encircle and reduce the diameter of the cup and effect its separation from an enclosing well wall to permit the flow to pass the cup and permit the free falling of the cleaner in the well, scrapers carried by the body, means including a well bottom engaging element for effecting the shifting of the cup encircling means to cup release position when the descent of the free falling cleaner is checked by engagement of said element with the well bottom, and means for effecting the reverse shifting of the cup encircling means to said cup encircling position by forcible contact of a part of the top end of the cleaner with a top part of the enclosing well casing.

2,655,997
HELICOPTER ROTOR ACTUATION AND CONTROL
Adolphe C. Peterson, Minneapolis, Minn.
Application February 24, 1949, Serial No. 78,185
5 Claims. (Cl. 170—135.26)



1. In an air-craft, a pylon mounting having a static bearing fixture fixed therewith; a first rotor hub unit mounted in the bearing fixture to rotate on a vertical axis and having air-foil blades each mounted in the rotor hub unit to have oscillation on an axis extending in the horizontal plane as substantially a radius of the circle about the axis of the rotor hub unit, each air-foil blade having a bevel gear fixed therewith, the rotor hub unit having oscillatable shafts mounted substantially on vertical axes in the rotor hub unit, each oscillatable shaft having fixed thereon a bevel gear inter-engaged with the bevel gear of an associated air-foil blade, each oscillatable shaft having a crank fixed thereon; a second rotor hub unit mounted in the bearing fixture to rotate on an axis co-incidental with the axis of the first rotor hub unit, the second rotor hub unit having air-foil blades each mounted in the said second rotor hub unit to have oscillation on an axis extending in the horizontal plane as substantially a radius of the circle about the axis of the rotor hub unit, each air-foil blade of the second rotor hub unit having a crank fixed therewith radially of the axis of the oscillation of the air-foil blade, the second rotor hub unit having shafts oscillatably mounted therein each on an axis substantially parallel to the axis of oscillation of an associated one of the air-foil blades, each last named oscillatable shaft having fixed thereon an eccentric and a bevel gear the eccentric having inter-connection with the crank of the associated air-foil blade by an eccentric link; a normally static control bevel gear fixed on the pylon mounting, the said control bevel gear having inter-engagement with each of said bevel gears of said second rotor hub unit; a normally static control eccentric mounted on said bearing fixture, an eccentric strap rotatably mounted on said control eccentric, links spaced about the eccentric and connecting the eccentric strap with each crank of said first rotor hub unit; and means connected and for rotating the rotor hub units in opposite directions.

2,655,998
CONTROL OF VARIABLE PITCH AIRSCREWS FOR AIRCRAFT
James Martin, Higher Denham, near Uxbridge, England
Application March 16, 1951, Serial No. 215,965
In Great Britain May 15, 1950
1 Claim. (Cl. 170—160.21)

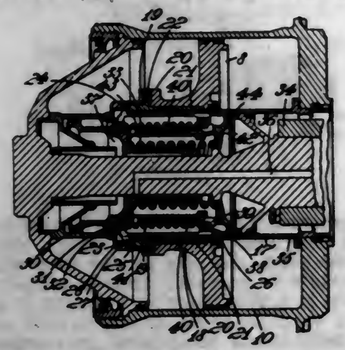


Supplementary automatically actuated mechanism for emergency feathering of the blades of a variable pitch airscrew of the type utilizing fluid pressure to normally actuate a blade-control piston in a fluid chamber mounted in a hub-cap of a variable pitch airscrew, said supplemental mechanism comprising in combination with said airscrew, of an extension on said hub-cap forming a housing, a cylinder mounted in said housing, a hollow piston slidably mounted in said cylinder and forming therewith an enclosed space, a plurality of chambers located radially along the body of said extension for a series of explosive charges, said chambers comical revolutions of the airscrew due to overspeed-device on said extension responsive to the critimunicating with said enclosed space, a governor ing of the engine, an initiator cartridge in said cylinder, a firing device for said cartridge, latch means actuated by said governor device on movement thereof for releasing said firing device and firing said initiator cartridge for igniting said explosive charges in said chambers consecutively, the gas pressure on release from each chamber entering into said enclosed space to actuate said hollow piston, a sleeve interposed between said hollow piston and the blade-controlled piston, said sleeve being driven by said hollow piston and uncovering ports in the blade-control piston to release the fluid pressure acting upon the normal blade-control piston, and means for releasing the fluid to atmosphere, said means comprising a release chamber communicating with said enclosed space, a closure at one end of the release chamber and a plunger in the release chamber for piercing said closure, the plunger being moved when the gas pressure from the first gas chamber enters the release chamber.

2,655,999
VARIABLE-PITCH PROPELLER
Sidney Philip Bascvi, Ensbury Park, Bournemouth, England, assignor to Rotol Limited, Gloucester, England, a British company
Application September 14, 1951, Serial No. 246,617
In Great Britain September 29, 1950
10 Claims. (Cl. 170—160.33)

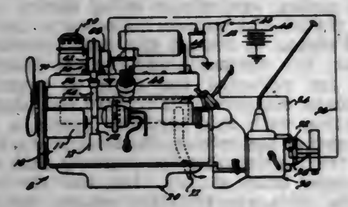
1. In a variable-pitch propeller having a hub, a hydraulic cylinder and piston means within said hub, said hub being adapted to receive propeller blades the pitch of which may be varied and connecting means between said piston means and said propeller blades to adjust said blades within a range of normal operation, within a first range extending beyond said normal range and within a second range extending beyond the

first extended range, a first stop means within said hub positioned to be engaged by the piston means to prevent movement of the blades beyond the normal pitch range, a second stop means within said hub operatively associated with said piston means after said piston means has passed said first stop to prevent its travel beyond said first extended range, stop displacing means operatively associated with said first and second stop means for displacing said stops



in succession, restraint means within said hub operatively associated with said stop displacing means for normally preventing said stop displacing means from acting to displace said second stop means, and restraint by-pass means positioned within said hub and operatively associated with said piston means and second stop means whereby upon engagement of said second stop means by said piston means the said restraint means is rendered inoperative.

2,656,000
CRANKCASE VENTILATION KIT
William E. Drinkard, Birmingham, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application September 23, 1948, Serial No. 50,740
6 Claims. (Cl. 180—54)



1. Apparatus of the character described for providing positive crankcase ventilation to an engine powered transmission driven vehicle, including: a combination introduction tube, an oil-fill pipe branch, an air-duct branch, each of said branches having an upper and a lower end, the tube being mountable on the engine in communicating relation with the crankcase and extending upwardly and terminating in the lower end of said branches, a casing with an external opening, the casing being mountable atop the engine for securing the upper end of the duct thereto, an oil bath cleaner within the casing, air handling means within the casing for drawing outside air through said external opening and cleaner and forcing the air through the tube, said transmission having speed sensitive means operatively controlled and mounted therein and remote to the engine and casing and comprising circuit means including switch contacts effective to control operation of the air handling means in a manner to drop output delivery of the latter at high engine-vehicle speed, and detachable means mounted on the upper end of the pipe for allowing oil to be admitted to the crankcase, the detachable means cooperating with the duct in confining the air travel.

2,656,001
TRACTION WHEEL DRIVE FOR AUTOMOBILES
Frederick W. Wolf, Chicago, Ill.
Application February 14, 1951, Serial No. 210,937
4 Claims. (Cl. 180—76)

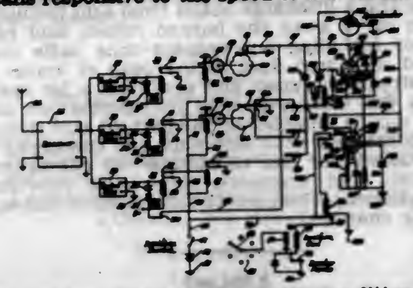


1. A drive for a pair of laterally spaced traction wheels comprising a shaft on which the wheels are centered and which is adapted to receive rotation from a power source, a hub carried rigidly by the shaft in the zone of each wheel, the hub having an enlargement intermediate its ends, a projection extending radially from the enlargement, an enclosure carried by the wheel and receiving the enlargement radially part-way, an abutment carried by the enclosure in the space beyond the enlargement in the rotating path of the projection, a receptacle carried by the wheel and formed with companion members encircling the outer end portions of the hub, said receptacle receiving the enclosure in the central portion thereof so as to form spaces between the sides of the receptacle and those of the enclosure, and ball bearings located in such spaces, one component of the ball bearings being carried by the receptacle and the other by the hub.

2,656,002
VEHICLE SPEED CONTROL SYSTEM
James C. Keeton and Edgar B. Cones, Oklahoma City, Okla.
Application June 28, 1949, Serial No. 101,895
17 Claims. (Cl. 180—82.1)

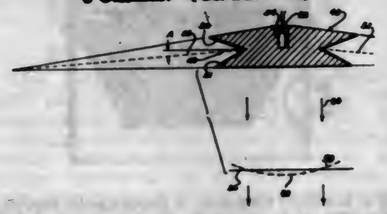
15. A vehicle speed control system for automatically limiting the speed of vehicles during operation through zones along a path of travel comprising, transmitter means operative continuously to transmit beams of signals across said path of travel at opposite ends of said zones independently of vehicle movement along said path of travel, the transmitter associated with each of said zones having a characteristic propagated signal, vehicle-mounted receiving means operative to receive said signals as said vehicles enter and leave said zones, means controlled in

accordance with the characteristics of the signals received by the receiving means for selectively establishing a first parameter condition, means responsive to the speed of the vehicles for



establishing a second parameter condition, and means controlled in accordance with a comparison of said first and second parameter conditions for controlling the speed of said vehicles.

2,656,003
HIGH EXPLOSIVE DISK-SHAPED CHARGE FOR SEISMIC EXPLORATION
Thomas C. Poulter, La Grange, Ill., assignor, by mesne assignments, to Institute of Inventive Research, San Antonio, Tex., a trust estate
Application February 27, 1948, Serial No. 11,613
6 Claims. (Cl. 181—5)



2. The method of seismic exploration which includes the steps of supporting above the surface of the ground a shaped charge having a cavity of V-shaped cross section formed therein with the charge arranged so that the jet emitted from the cavity is unobstructed and proceeds in a direction generally parallel to the surface of the ground for the setting up of a supersonic bow wave, said charge being free of obstruction to the passage of said jet and being supported at such height that the supersonic wave set up by said jet is still of supersonic velocity when it strikes the surface of the ground, exploding said charge to apply said supersonic wave to the surface of the ground in the region generally below the charge to set up a seismic wave in the ground, and then detecting said seismic wave after the same has been reflected from a submerged horizon.

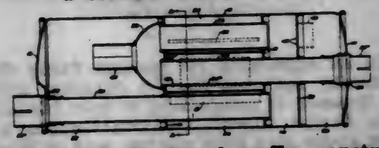
2,656,004
MULTISECTION ACOUSTIC FILTER
Harry F. Olson, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 29, 1947, Serial No. 744,548
3 Claims. (Cl. 181—33)

1. A multi-section acoustic filter for attenuating high frequency sounds which comprises at least three similar parallel, perforated plates spaced from each other to provide air spaces between adjacent plates, said plates all having a like number of aligned openings therein, the openings in the end ones of said plates being of one dimension and the openings in the intermediate ones of said plates being of another dimension, said openings of each plate being di-



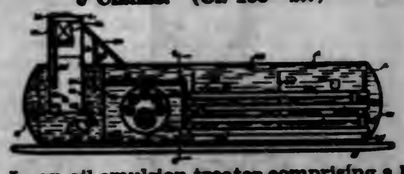
mensioned to constitute a non-dissipative acoustic impedance, and means connecting said plates to each other around their perimeters to enclose said air spaces.

2,656,005
RETROVERTED PASSAGE TYPE MUFFLER WITH RESONATOR CHAMBERS
Beecher B. Cary, Jackson, Mich., assignor to Hayes Industries, Jackson, Mich., a corporation of Michigan
Application April 21, 1949, Serial No. 88,799
2 Claims. (Cl. 181—54)



2. An acoustically tuned muffler construction comprising an elongated hollow casing, a gas flow conduit mounted in said casing with axial extending portions in retroverted arrangement within the latter, transverse interior partition plates in said casing defining an intermediate space surrounding portions of said conduit, axially extending acoustic wave attenuating structure embracing said conduit portions, and axially extending baffle means disposed between the sides of said casing and constituting a partition between certain of said conduit portions for dividing said intermediate space into two separate compartments.

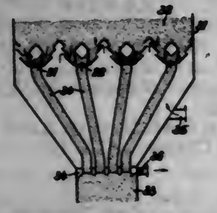
2,656,006
EMULSION TREATER
Samuel A. Wilson, Tulsa, Okla., assignor to Maloney-Crawford Tank & Manufacturing Company, Tulsa, Okla., a corporation of Delaware
Application July 28, 1947, Serial No. 764,136
6 Claims. (Cl. 183—2.7)



2. In an oil emulsion treater comprising a horizontally disposed shell having a free-water extracting chamber, a flume having an open end in communication with the chamber, an influent mixture inlet communicating with the flume and disposed below the level of the emulsion mixture in the chamber, means for stratifying the emulsion mixture in the chamber, means conducting the stratified emulsion from the free-water chamber to a horizontal heated scrubbing chamber, a plurality of horizontally extended superimposed trays arranged in inverted position and disposed in the scrubbing chamber, said trays in communication with the conducting means, a plu-

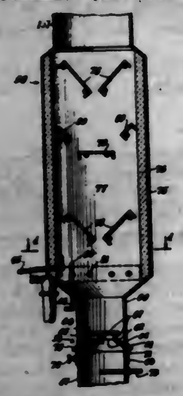
rality of axially disposed baffles provided in the trays to provide a tortuous path of the emulsion flowing therethrough, said inverted position of the trays preventing scrubbed water falling from a tray from contacting the flowing emulsion, and outlet means for the separated oil.

2,656,007
APPARATUS FOR THE GRAVITY CONVEYANCE OF ADSORPTION MEDIA
Erich Arnold, Edmund Hellmann, and Wendlin Vellmer, Frankfurt am Main, Germany, assignors to Metallgesellschaft Aktiengesellschaft, Frankfurt am Main, Germany, a corporation of Germany
Application June 16, 1950, Serial No. 168,464
14 Claims. (Cl. 183—4.2)



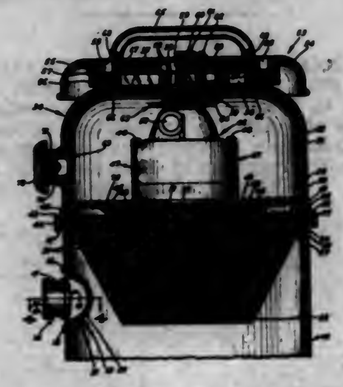
1. In an apparatus for passing finely divided or granular material from a chamber into the space beneath it comprising a floor including a section having spaced openings therein, a roof section above said floor section, and at least one upstanding wall section having parts extending from the floor section to the roof section, said parts being located opposite substantially the whole width of each of said openings and said wall section having spaces therein between said parts, whereby the material flows through such spaces onto parts of the floor section between said openings and then through said openings into the space below said floor.

2,656,008
FUME DISPOSAL SYSTEM
John P. Engel, Miller Place, N. Y., assignor to Sapolin Paints, Inc., New York, N. Y., a corporation of New York
Application March 22, 1950, Serial No. 151,284
8 Claims. (Cl. 183—6)



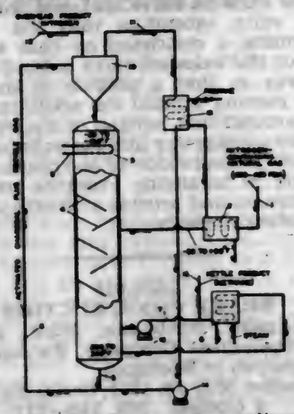
1. Apparatus for the disposal of burnable fumes by incineration which comprises a chamber in which said fumes are generated, a duct through which to pass said fumes in a stream from said chamber, an incinerator beyond said duct in which said fumes are burned, a carburetor connected to said duct for introducing air into said stream to be carburetted by said fumes and for passing the carburetted air into said incinerator, means for introducing fuel to said incinerator in addition to said burnable fumes and a discharge outlet from said incinerator to carry away the burned fumes, said carburetor including a truncated cone baffle connected with said duct in the path of travel of said stream of fumes and providing a jet opening, a flat baffle over said jet opening, an air-fume mixing chamber in the path of said stream communicating with said duct and connected to said incinerator and an annular air passageway adjacent said truncated cone baffle providing communication between the atmosphere and said mixing chamber.

2,656,009
SUCTION CLEANER
Moss A. Kent, White Plains, N. Y.
Application January 29, 1951, Serial No. 208,304
2 Claims. (Cl. 183—37)



1. In a suction cleaner, a receptacle having an annular side wall open at its upper end, an annular frame seated on the upper end of said receptacle and forming an annularly continuous air-tight seal therewith, an annular rigid screen member of truncated cone-shape with its larger end being the upper end, said screen member being open at its upper and lower ends and supported at its upper end by said frame and depending into said receptacle, a flexible dust bag having an open end and a closed end and of generally hourglass shape when extended, said open end being engaged and secured about said annular frame outwardly of said screen member, said bag extending in downwardly convergent relation about the outer side of said screen member, in folded relation about the lower end of said screen member, and in upwardly divergent relation within said screen member with its closed end facing upwardly and freely disposed within the open upper end of said screen member, said closed end being of less diameter than the diameter of the upper end of said screen member and of greater diameter than the diameter of the lower end of said screen member, a cover device normally closing the upper end of said receptacle in air-tight fashion and removable therefrom to expose the upper open end of said screen member supported within said receptacle, a suction unit in said cover device for creating a suction upwardly through said dust bag to draw the closed end of said dust bag upwardly within said screen, an inlet in a wall of said receptacle, an outlet in said cover device, means for detachably securing said cover device to said receptacle in air-tight relation with said open upper end thereof, and said dust bag adapted upon removal of said cover to have its closed end exposed for shaking purposes and being free to be grasped and moved downwardly through the open lower end of said screen member.

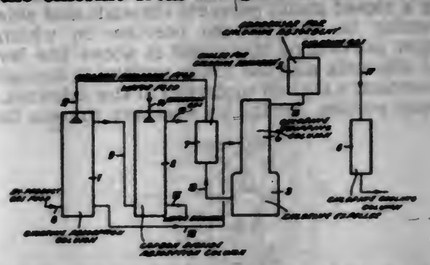
2,656,010
REMOVAL OF NITROGEN FROM NATURAL GAS
George Thodes, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application April 15, 1946, Serial No. 662,152
2 Claims. (Cl. 183—114.2)



1. The method of removing nitrogen from natural gas containing at least 5 mol per cent nitrogen which comprises continuously feeding the nitrogen-containing natural gas into a continuously downwardly moving bed of a solid granular adsorbent at an intermediate point therein, continuously maintaining the top of said bed at a temperature of from −10 to −155° F., continuously withdrawing overhead a nitrogen-rich unadsorbed gas fraction substantially free of hydrocarbon, continuously heating the bottom portion of said bed to a temperature of from 200 to 350° F. and thereby driving off the adsorbed components, continuously withdrawing the resulting gaseous fraction comprising natural gas which is substantially free of nitrogen, cooling to a temperature in the range of −10 to −155° F. a portion of said overhead fraction by indirect heat exchange with a vaporizing, normally gaseous hydrocarbon in a first heat exchange zone; utilizing the thus cooled portion of the overhead fraction to lift the adsorbent from the bottom of said bed to the top thereof; and cooling the natural gas feed in a second heat exchange zone prior to its introduction to said bed by indirect heat exchange with the partially expanded hydrocarbon from said first heat exchange zone.

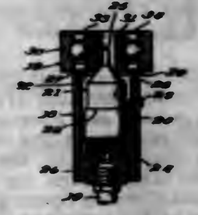
2,656,011
SEPARATION OF CHLORINE BY ABSORPTION
Walter Frey, Basel, Switzerland, assignor to Sauerstoffabrik Schweizerhall, Schweizerhalle, Baselland, Switzerland, a corporate body of Switzerland
Application April 5, 1949, Serial No. 85,564
In Switzerland April 7, 1948
5 Claims. (Cl. 183—115)

2. A process for recovering chlorine from gaseous mixtures containing substantial quantities of both chlorine and carbon dioxide comprising contacting said gaseous mixtures with an anhydrous liquid sulfur chloride thereby selectively absorbing the chlorine from the gaseous mixture and



thereafter expelling the purified chlorine from the absorbent substantially freed of carbon dioxide.

2,656,012
SEALED BEARING CLEANING AND LUBRICATING HEAD
Jack H. Thorpe, Los Angeles, Calif.
Application November 23, 1950, Serial No. 197,996
2 Claims. (Cl. 184—1)

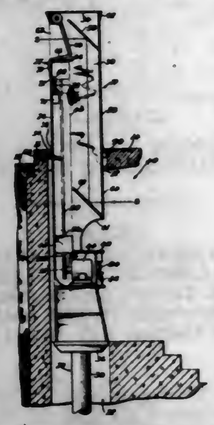


1. An attachment adapted to be supported upon and to extend outwardly from the outlet of a lubricating gun, for facilitating the cleaning and lubrication of a sealed bearing having inner and outer races with a bore through the inner race, said attachment comprising a head having a bore closed at one end and opening at one end of the head with a diameter that will permit establishing close communication with the space between said races when said open end of the head is held against said bearing, a sealing member on said end of the head for forming an annular seal between the head and said bearing for confining the flow of cleaning fluid or lubricant to the space between said races, a piston in said bore of said head, displacing the major portion of the space in said bore and having a tapered end adapted to seal against an end of the wall of the bore in said inner race, a coiled spring having its end abutting the other end of said piston and said closed end respectively for urging said piston outwardly from said bore, means limiting the outward movement of said piston, there being a continuously open fluid passage between the piston and the wall of the bore through said head, and means for connecting said bore in the head with said outlet and for supporting the head upon the gun in outwardly extended relation thereto.

2,656,013
RETRACTABLE SIDEWALK TELLER SYSTEM
Clarence D. Ellithorpe, Milford, Conn., assignor to Duplex Electric Company, Inc., New York, N. Y., a corporation of Delaware
Application November 21, 1951, Serial No. 257,457
6 Claims. (Cl. 186—1)

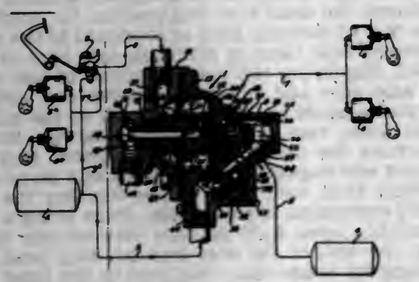
1. In a teller apparatus movable between a raised operative position relative to a sidewalk

and a lowered position flush with said sidewalk, said sidewalk having an opening therein with a storage pit therebeneath, the combination including a closed stand movable through said sidewalk opening to an elevated position in which the upper portion of the stand is above the level of the sidewalk and the lower portion is opposite an attendant's station underneath the sidewalk, said upper portion having an aperture therein for the



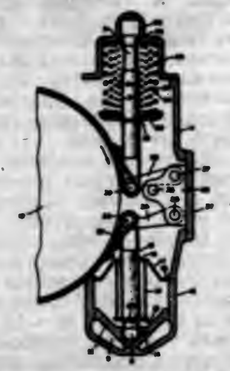
transfer of articles into and out of the stand, an article carrying means movable in said stand between a position behind said aperture and a position in the lower portion of the stand opposite the attendant's station when the stand is in elevated position, and means for moving said stand through said sidewalk opening between said elevated position and a retracted position in the pit beneath the sidewalk.

2,656,014
RELAY VALVE FOR TRACTOR TRAILER BRAKE SYSTEMS
Cyril B. Fites, St. Johns, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application November 3, 1949, Serial No. 125,331
4 Claims. (Cl. 188—3)



1. A relay valve comprising a casing, an exhaust port in the casing, a single diaphragm in the casing responsive for movement in one direction to fluid pressure from an application valve, a spring in the casing bearing against the non-pressure side of the diaphragm and resisting movement of the diaphragm in one direction, a normally open exhaust valve comprising a hollow member, the exhaust valve being operatively connected to and extending through the diaphragm, one end of the exhaust valve being slidably mounted in the casing and extending into the exhaust port, the spring circumscribing a portion of the exhaust valve, the casing having a guide passageway therein, a combined exhaust valve seat and a normally closed actuating valve in the passageway, the other end of the exhaust valve extending into the passageway and engageable with the exhaust valve seat to close the exhaust valve upon movement of the diaphragm upon the application of pressure to the diaphragm, upon application of additional pressure to the diaphragm the exhaust valve moves the seat and thereby opens the normally closed actuating valve allowing the actuating pressure to pass therethrough, the diameter of the passageway being larger than the diameter of the actuating valve, the exhaust valve seat and the end of the exhaust valve extending into the passageway thus forming a restricted by-pass around that portion of the exhaust valve extending into the passageway so that a portion of the actuating pressure passing around the actuating valve will by-pass around that portion of the exhaust valve within the passageway and the exhaust valve seat to the non-pressure side of the diaphragm to aid the spring in balancing excessive movement of the diaphragm and provide smooth application of the actuating pressure.

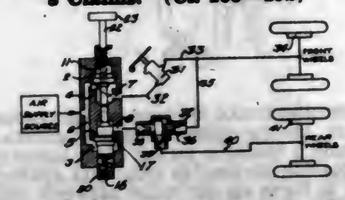
2,656,015
BRAKE CONSTRUCTION
Robert Lapsley, Buchanan, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application May 10, 1951, Serial No. 225,642
2 Claims. (Cl. 188—77)



2. Brake means comprising a brake drum, a brake band encircling said drum and having adjacent free ends, a housing, a pair of levers pivotally mounted at their one ends one to each of the said free ends of said band, said levers at their other ends being pivotally mounted to said housing, a pair of rod members pivotally mounted at their one ends one to each of the said free ends of said band, coil spring means disposed concentrically about one of said rod members between the latter and said housing for normally biasing the said one rod member toward the other of said rod members, stop means carried by said housing for limiting movement of said one rod member toward said other rod member, fluid pressure actuated means associated with the other of said rod members which means is adapted when actuated to urge the said other rod member toward the said one rod member against the force of said coil spring means whereby the latter is partially compressed and said brake band is contracted for braking said drum and rotating the latter a controlled amount

in a direction opposite to the normal direction of rotation of said brake drum, and said coil spring means when said fluid pressure actuated means is released being adapted to expand whereby said band and said drum are rotated a controlled amount in the normal direction of rotation of said drum immediately prior to complete release of said band from braking engagement with said drum.

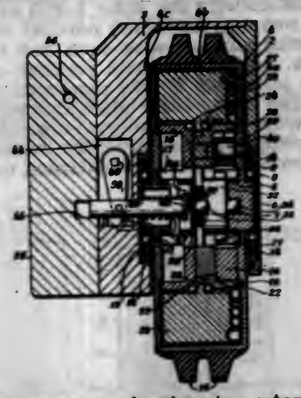
2,656,016
AUXILIARY CONTROL VALVE FOR BUSSES
Homer T. Seale, Los Angeles, Calif.
Application August 9, 1952, Serial No. 303,486
8 Claims. (Cl. 188—152)



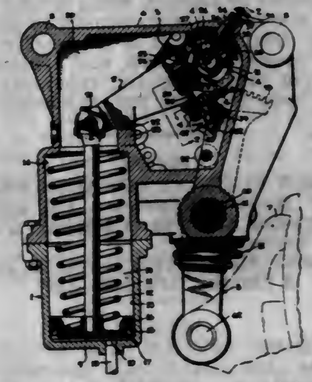
1. In a vehicle air brake system having an air supply, front and rear brakes, a manually operated brake control valve for both said front and rear brakes, and an automatic selector valve between said brake control valve and rear wheels, the combination of an auxiliary brake valve, comprising: a valve body having a pair of valve cavities, inlets to said valve cavities adapted for connection to said air supply, an outlet from one of said valve cavities to said control valve and an outlet from the other of said valve cavities to said selector valve; valve members for said valve cavities, said valve members having bleed ports; a manually operable control means extending into said body member and engageable with said valve members, said control means including valve elements engageable with said bleed ports to close said bleed ports when said valve members are moved to open communication between said inlets and outlets and to open said bleed ports when said valve members close communication between said inlets and outlets, said control member being manually operated to close supply to and bleed air from said brake control valve and thereupon control flow to said selector valve and the rear wheel brakes of said vehicle.

2,656,017
AUTOMATIC BRAKING APPARATUS FOR AIRCRAFT
Henry William Trevaskis, Solihull, England, assignor to Dunlop Rubber Company Limited, London County, England, a British company
Application November 14, 1950, Serial No. 195,509
In Great Britain November 17, 1949
16 Claims. (Cl. 188—181)

1. Apparatus for automatically controlling the braking pressure in an aircraft fluid pressure operated wheel brake comprising a housing rotatable by a wheel, a flywheel rotatable in and driven by said housing, a drum-member also rotatable in said housing and capable of limited angular displacement relative to said flywheel, means moveable axially by said angular displacement, and a valve mechanism adapted to be connected to a source of fluid pressure, to an exhaust and to said brake and operated by axial movement of said means, whereby on relative angular displacement between the drum-member and flywheel in one direction the axially-moveable means operates the valve mechanism to reduce the braking pressure and on relative angular displacement in the other direction the axially moveable means operates the valve mechanism to restore the braking pressure.



2,656,018
BRAKE APPARATUS
Arthur J. Bent, Pittsburgh, Pa., and Samuel L. Williams, New York, N. Y., assignors to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application February 4, 1949, Serial No. 74,666
6 Claims. (Cl. 188—197)

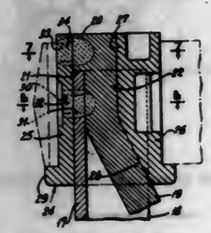


1. A unit brake apparatus comprising a housing adapted to be applied to a vehicle, a dead brake lever journaled in said housing and having a brake shoe operating end disposed outside of said housing, a live lever disposed and journaled in said housing, a brake cylinder piston disposed in said housing and connected to said live lever, means operatively connecting said dead lever to said live lever for operation thereby including brake shoe wear compensating mechanism for moving said dead lever relative to said live lever, and means arranged to cooperate with said housing for actuating said mechanism in response to greater than a chosen movement of said brake cylinder piston by fluid under pressure.

2,656,019
BRAKE BEAM
Charles R. Busch, Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y., a corporation of New York
Application April 14, 1950, Serial No. 155,993
3 Claims. (Cl. 188—223.1)

1. A truss brake beam, including a channel compression member with upper and lower webs

and a web intermediate thereof, a tension member having aligned outwardly deflected end portions of substantially the same width as the intermediate web and extending parallel with such web in bearing contact with such web for their entire width, the deflected end portions extended beyond the terminals of the compression member and having backwardly offset abutments providing inboardly facing shoulders engaged lengthwise of the compression member in abutment with the said terminals, truss locks adapted to receive



freely removable brake heads, the truss locks having longitudinal sockets snugly receiving, with a close fit all around, the ends of the compression member and the deflected ends of the tension member as well as the abutments, the intermediate web and the backs of the truss locks being directly united by through welds spaced inwardly from the abutments, such welds also uniting the outwardly deflected ends of the tension member with the intermediate web, and separate welds spaced from such welds and extending through the truss locks and into the abutments.

2,656,020
FRICTION ELEMENT FOR DISK BRAKES
Joseph C. McCune, Edgewood, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application May 31, 1950, Serial No. 165,303
3 Claims. (Cl. 188—240)



1. In a disc brake or the like, a friction element comprising in combination, a body having a mounting face, a torque transmitting lug attached to said body and projecting from said face, a retaining pin attached to said body and projecting from said face, a backing plate having an opening receiving said retaining pin, a friction shoe cast onto said backing plate and having a socket in engagement with said lug and slidable thereon in the direction of said pin, and removable means holding said backing plate on said pin.

2,656,021
AIR-COOLED BRAKE DISK
Henry James Butler, Sutton Coldfield, England, assignor to Dunlop Rubber Company Limited, County of London, England, a British company
Application July 1, 1949, Serial No. 102,644
In Great Britain July 3, 1948
4 Claims. (Cl. 188—251)



1. A metallic brake element which comprises a brake disk having slots extending substantially radially and a metallic facing plate spanning the spaces between successive slots and spaced from said disk to form an air space between said slots and extending into said successive slots to secure said plate from rotation relatively thereto.

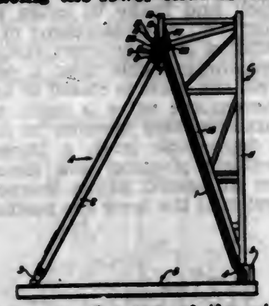
2,656,022
REINFORCED CAST BRAKE SHOE
Joseph C. McCune, Edgewood, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Original application May 31, 1950, Serial No. 165,303. Divided and this application May 16, 1951, Serial No. 226,665
2 Claims. (Cl. 188—258)



1. In a disk brake or the like, a friction member comprising a flat plate having a slot open to one edge and a plurality of spaced apart webs pressed from one side of said plate beyond the opposite side a distance exceeding the thickness of said plate and integrally connected at opposite ends to said plate, and a brake shoe cast on said opposite side and encircling said webs and the edges of said slot to provide a recess within said slot open to said one edge of said plate, and said shoe terminating flush with said one side of said plate.

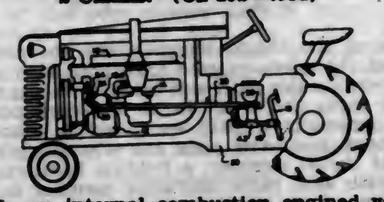
2,656,023
PORTABLE OIL WELL DERRICK
Homer J. Woolslayer, Charles D. Iddings, and John S. Eaton, Tulsa, Okla., assignors to Lee C. Moore Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application January 9, 1952, Serial No. 265,687
9 Claims. (Cl. 189—15)

2. A splice connection for a portable oil well derrick that has a gin pole and a mast mounted on a base with the front legs of the mast pivoted to the base near the front of the mast and with the lower ends of the back legs of the mast disposed above the gin pole, said connection comprising vertical tension members connected to the upper part of the gin pole and having vertical slots in their upper ends, removable pins extending through the upper ends of said slots and adjoining portions of the mast to connect the mast to the gin pole, wedges at the top of the gin pole spacing the lower ends of the back legs



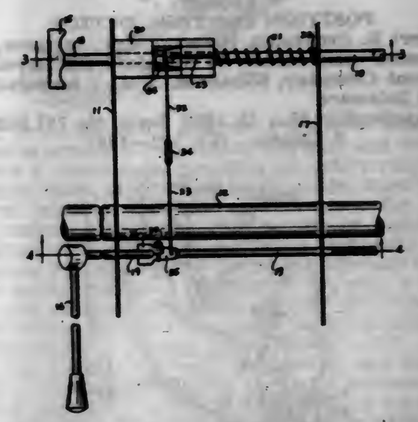
of the mast from the top of the gin pole and normally holding said pins in engagement with the upper ends of said slots, and means connected with the wedges for moving them laterally to permit the mast to tilt backward to lower said pins in said slots so that they can easily be removed to disconnect the mast from the top of the gin pole.

2,656,024
AUTOMATIC THROTTLE CONTROL
Leo F. Sebis, Janesville, Mich.
Application November 8, 1949, Serial No. 126,132
2 Claims. (Cl. 192—.064)



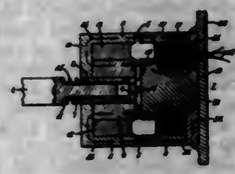
1. In an internal combustion engined vehicle having a carburetor with a fuel control valve, a centrifugal weight governor operatively connected with said valve to automatically adjust the valve setting in relation to the engine speed and a control clutch, including a rod connection between a clutch pedal and the clutch, said governor comprising a head casing part enclosing an extension rod of the centrifugal weight actuator, which extension rod provides an actuating connection for a reciprocable rod connected to said fuel control valve and which head casing part has a removable cover plate, the combination of a box-like casing part secured between the top of said head casing part and said cover plate, the latter being secured to close said box-like casing part, an oscillatory cross shaft journalled in said box-like casing part, said cross shaft carrying a first lever arm enclosed in the box-like casing part and in contact with the said extension rod of the governor weight actuator, said cross shaft having an extension outside the box-like casing part, a second lever arm secured upon said cross shaft extension for oscillation with said cross shaft, and a second rod connected between said second lever arm and said clutch rod connection for reciprocation under the control of said clutch rod connection, whereby when the clutch pedal is actuated to disengage the clutch the said first lever arm on said cross shaft is rocked to depress the governor rod extension in overriding relation to the governor action so as to set the fuel control valve to slow-idle position.

2,656,025
AUTOMATIC BRAKE RELEASE MECHANISM
Joseph F. Martin, Detroit, Mich.
Application September 15, 1952, Serial No. 309,596
5 Claims. (Cl. 192—4)



1. In a motor vehicle having an emergency brake mechanism including a push-pull rod and a speed selector mechanism including a speed selector lever and rod, the combination of a bracket for supporting said emergency brake rod, an arm rockable on said emergency brake rod, said arm having a spring backed dog thereon arranged to engage teeth formed on said emergency brake rod, an arm rockable with said speed selector rod, and linkage connecting the said arms, whereby upon the rocking of the arm on the speed selector rod in either direction the arm and said dog on said emergency brake rod will be rocked out of engagement with the teeth on said emergency brake rod.

2,656,026
PERMANENT MAGNET BRAKE
Karl M. Feiertag, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application October 31, 1950, Serial No. 193,216
4 Claims. (Cl. 192—21.5)



1. In apparatus of the class described, a pair of axially spaced relatively rotatable members defining an air gap therebetween, and a magnetically susceptible mixture in said air gap, one of said relatively rotatable members having a permanent magnet arranged to create a first magnetic field in said air gap to cause said mixture to couple the relatively rotatable members, the other of said members having an electromagnet arranged to create a second magnetic field in said air gap in opposition to the first-mentioned magnetic field to prevent the first-

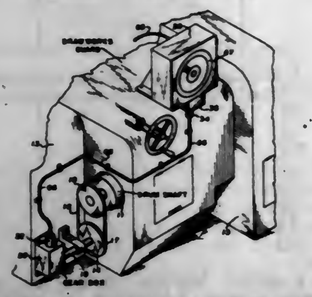
mentioned magnetic field from causing the magnetic mixture to couple the relatively rotatable members, one of said members being axially movable responsive to the repelling action of said first and second magnetic fields thereby to increase said air gap whereby said first magnetic field is prevented from causing the coupling of said members when said electromagnet is energized.

2,656,027

POSITION CONTROL DEVICE

Robert R. Crookston, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application May 13, 1950, Serial No. 161,883
4 Claims. (Cl. 192—138)



1. A device arranged to control the position of a load attached to one end of a line, the other end of said line being spooled on a rotatable drum, said load being movable by said drum and said line from a first limit of travel to a second limit of travel, comprising a shaft mounted for rotation about its longitudinal axis; a speed reducing mechanism connecting said drum and said shaft for transmitting the rotary motion of said drum to said shaft, said speed reducing mechanism being arranged to rotate said shaft no more than one revolution for rotary drum motion sufficient to move said load from its first limit of travel to its second limit of travel; a cam actuating arm mounted on said shaft for rotation therewith; an assembly radially spaced from said shaft, said assembly carrying a bleeder valve having an inlet, a conduit containing fluid under pressure fluidly connected with said inlet, and an exhaust port for bleeding fluid from said conduit when said bleeder valve is actuated, said assembly carrying a rotatable cam shaft having a first cam mounted on said cam shaft for rotation therewith in a first direction and for rotation thereon in a second direction and a second cam affixed thereto, said first cam being disposed in the path of said cam actuating arm and said second cam being arranged to actuate said bleeder valve when said first cam is rotated in said first direction by said cam actuating arm; and a valve member in said conduit arranged to stop the rotation of said drum when fluid is bled from said conduit by said bleeder valve.

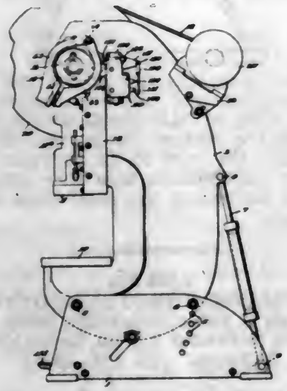
2,656,028

GAP FRAME PRESS

Einar K. Johansen, Oak Park, Ill., assignor to Clearing Machine Corporation, Chicago, Ill., a corporation of Illinois

Application June 3, 1949, Serial No. 97,057
1 Claim. (Cl. 192—144)

In a cyclically operable machine of the character described, a driving shaft, a driven shaft, means operatively connecting said driven shaft and machine in driving relationship, a normally disengaged fluid pressure operated clutch operatively connecting said driving shaft and driven shaft in driving relationship, a normally engaged fluid pressure operated brake on said driving shaft, a source of fluid under pressure, a normally closed valve connected to said source and operable when open to supply fluid from said source to said clutch and brake to cause engagement of the former and disengagement of the latter, a valve operating member operatively connected to said valve and movable from a retracted position wherein the valve is closed to an advanced position wherein the valve is open, means normally maintaining said member in its retracted position, a depressible lever, a thrust member, means selectively pivoting said thrust member to said lever at spaced points thereon whereby upon depression of the lever the positional move-



ments of the thrust member will be varied, a pair of shoulders on said thrust member selectively engageable with said valve operating member to move the latter to its advanced position upon depression of said lever, such selective engagement depending upon the selective pivoting of said thrust member, a holding latch engageable with said valve operating member to hold the same in its advanced position, a trip member engageable with said thrust member when the latter is in one of its selected pivoted positions for moving the latter into engagement with said holding latch to trip the latter and release said valve operating member, means on said thrust member for preventing engagement thereof by said trip member when the thrust member is in its other selected pivoted position, and cam means operable upon rotation of said driven shaft throughout a predetermined degree for actuating said trip member.

2,656,029

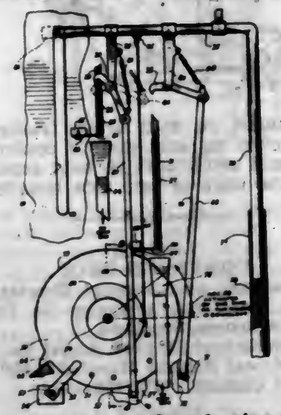
VENDING MACHINE

Lila S. Spero, Arverne, and Gilbert Adamec, New York, N. Y.; said Adamec assignor to said Spero

Application July 12, 1950, Serial No. 173,297
3 Claims. (Cl. 194—10)

1. A sundry item vending machine comprising a casing, a plurality of compartments in the casing having respectively different packaged items, a selecting mechanism having a knob adapted to be turned and an indicator operable by said knob, solenoid operated plungers associated with the respective compartments, said indicator having contact means adapted to connect with any one of the respective plungers, a

contact wheel having a plurality of contacts thereon and adapted to engage with a stationary contact secured to the casing, push handle mechanism operable in response to nickels and dimes for moving the contact wheel, said push handle mechanism including a plunger with a push arm thereon, spring means tending to effect the return of the plunger, a coin chute having depending portions for respectively receiving nickels and dimes, said push handle mechanism further including coin engaging elements engageable with the coins in the depending portions, rack rods extending respectively from the coin engaging



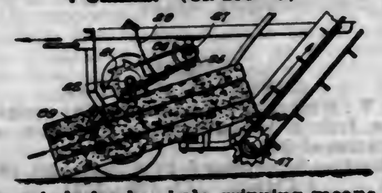
elements, said contact wheel having teeth therein adapted to receive the respective rack rods of the push handle mechanism to be actuated by the same to measured distances effected by the different number of coins in the depending portions of the coin chutes, and a return strip adapted to be wound upon the contact wheel as the push handle mechanism is operated so that as the push handle arm portion is returned the contact wheel will be returned to its initial position and the contact on the contact wheel corresponding respectively to the solenoid operated plungers of the respective compartments.

2,656,030

PICKUP BALE LOADER

Isaac Z. Smoker, Intercourse, Pa.

Application September 13, 1948, Serial No. 49,071
7 Claims. (Cl. 198—9)



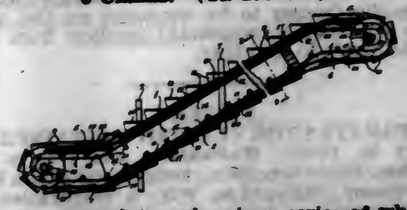
1. In a bale loader, bale gripping means comprising a frame structure, transversely arranged shaft members journalled in said frame structure at levels spaced one above the other, spike wheels disposed in spaced positions on one of said shaft members, coacting star wheels disposed in spaced positions on another of said shaft members, the said spike wheels operatively engaging the top of a bale and the coacting star wheels operatively engaging the ends and bottom of the bale for progressively moving said bale to a conveyor mechanism, rotary discs supported on said frame structure for engaging the sides of the bale, and means for simultaneously driving said spike wheels and said star wheels.

2,656,031

MOVING STAIRWAY

Walter F. Masek, Richmond, Ind., assignor to Multiscope, Inc., Richmond, Ind., a corporation of Kansas

Application July 7, 1950, Serial No. 172,505
6 Claims. (Cl. 198—16)



1. In an escalator wherein a series of wheeled steps is arranged in a continuous loop and driven about a closed path including an active reach, a return reach, and reverse bends at the upper and lower landings between said reaches, the improvement which comprises a pair of standard structural beams each having a vertically extending web and flanges extending laterally from the upper and lower margins of the web, a supporting member extending between the webs of said beams and supporting the beams in parallel horizontally - spaced relationship with said flanges extending toward each other, said beams being otherwise supported to extend between the upper and lower landings, and means at the ends of said beams for guiding wheels of the steps into rolling engagement with the upper sides of the top and bottom flanges respectively of said beams, said beams thereby constituting the track-support and the track along which said wheels roll.

2,656,032

APPARATUS FOR THE AUTOMATIC SERVING OF MEALS

Maurice Stern, Paris, France, assignor to Mecres, S. A., Panama, Panama, a corporation of Panama

Application March 1, 1951, Serial No. 213,413
In France July 4, 1950
6 Claims. (Cl. 198—20)



5. In apparatus for conveying plates of food to the dining room and therefrom to stations where the plates are washed and dried, the combination comprising a pair of endless main conveyor chains, means for supporting and driving same horizontally into the dining room at one level and back toward said stations at another level and thence along a return path again to the dining room, a pair of auxiliary conveyor chains which cross the paths of said main chains at two points adjacent said stations, the paths of the main chains being downward at one of said points and upward at the other, and the paths of said auxiliary chains being generally horizontal at both said points, a series of plate retaining frames respectively having detachable trunnion connections at spaced positions along said main chains, ramp-like track means along the main conveyor shaped and positioned to be engaged by said frames to cause the frames at various locations to be swung to various angles about the trunnion connections, means to actu-

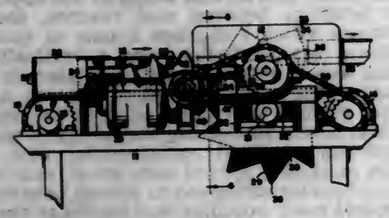
ate said connections to release the frames from the main conveyor at one of said points and to reconnect the frames to the main conveyor at the other of said points, and spur-like means on the trunnions to provide hook-like engagement with the auxiliary chains upon release of the frames from the main conveyor and to thereby cause the frames to be conveyed on the auxiliary conveyor in suspended position from one of said points to the other.

2,656,033

APPARATUS FOR TURNING CONTAINERS

Albert M. Olson, Wauwatosa, and George W. Baker, Milwaukee, Wis., assignors to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin

Application December 10, 1948, Serial No. 64,566
3 Claims. (Cl. 198—33)



3. Apparatus for turning seriatim containers standing on end and travelling with their axes in parallel relation to a position in which their axes are aligned and the containers rest on their sides comprising a conveyer on which the cams initially travel, a circular rotating member having a plurality of pockets disposed at regular intervals around its periphery arranged to lift the containers continuously seriatim from the conveyer, rotate them and deliver them on their sides, the rearward faces of said pockets being substantially horizontal when the objects are received and above the horizontal level of the center of the said rotating member and means operating in synchronism with the conveyer and the rotating member arranged to space the containers while on the conveyer and to time the feed of containers whereby each container reaches the end of its travel on the conveyer simultaneously with the arrival of a pocket of the rotating member in lifting position, said containers being retained in said pockets until the axes of the containers have turned from vertical to horizontal.

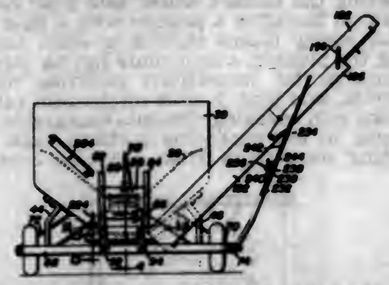
2,656,034

VEHICLE HAULING ELEVATOR

Raymond D. Flisinger and Dean L. Flisinger, Clearwater, Nebr.

Application January 14, 1952, Serial No. 266,238
5 Claims. (Cl. 198—115)

1. A conveyor for mounting on a vehicle comprising a substantially horizontal platform, an upwardly directed end portion on said platform, a chute hingedly connected to said end, said chute being hinged intermediate the ends thereof, an endless conveyor entrained on said platform and said chute, driving means operatively connected to said conveyor, roller means mounted on said platform at the junction of said end portion, roller means mounted on said chute adjacent the connection with said end, said roller means overlying said conveyor, side boards on the intermediate section of said conveyor, said side boards enclosing said end portion on said platform, a pair of arms pivotally mounted on said side boards above the connection with said end portion, said arms extending below said platform, conveyor engaging



rollers mounted on said arms, triangular fulcrums mounted on said end to control inward motion of said arms, cars on said arms adapted to engage the edge of said side boards.

2,656,035

CONVEYER BELT

Charles Thomson and Samuel Hunter Gordon, Inverness, Scotland, assignors to Cable Belt Limited, Inverness, Scotland

Application August 30, 1949, Serial No. 113,095
In Great Britain March 2, 1949
2 Claims. (Cl. 198—201)



1. A conveyor belt assembly for suspension between a pair of supporting and propelling cables, said assembly comprising a belt having a loading surface and consisting of a moulded elastomer and a reinforcing layer embedded in said elastomer, the belt having slots extending through said elastomer from edge to edge of the belt on the side of the reinforcing layer opposite to the loading surface, and cross straps passing one through each of the said slots and projecting laterally beyond the edges of the belt to receive cable-engaging means.

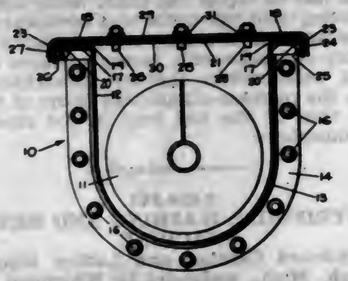
2,656,036

CONVEYER HOUSING

Paul V. Whitney, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio

Application September 2, 1950, Serial No. 182,896
4 Claims. (Cl. 198—213)

1. A substantially sealed housing structure for a screw conveyer including a generally open topped U-shaped conveyer trough having an integral laterally outwardly extending flange means at each side thereof providing spaced upwardly facing gasket seats and downwardly facing abutments, sectional cover means for closing the top of said trough including a plurality of adjacent cover plates each having integral flange means at each side thereof extending downwardly below said trough flanges, upwardly facing cam means carried by each of said cover flange means adapted to cooperate with said abutments for clamping said cover plate to said trough, screw means for adjusting the cam means on at least one of said cover flange means for clamping said cover to said trough, gasket means between said cover and gasket seats against which said cover is clamped, means sealing the adjacent ends of said bolts being of such dimensions that when aligned with the ends of said cover plates they a bar interconnecting said adjacent cover plates, T bolts extending through each of said bars and



said cover plates together, each means including between said adjacent cover plates, the heads of screw conveyer including a generally open topped may be removed therefrom and when positioned to extend transversely thereof they engage said adjacent cover plates, nuts and washers on said T bolts, and gasket means between said bars and cover plates and cover plates and washers.

2,656,037

DRIVE MECHANISM FOR SHAKER CONVEYERS

Ernst R. Bergmann, Evergreen Park, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application June 4, 1951, Serial No. 229,812
5 Claims. (Cl. 198—220)



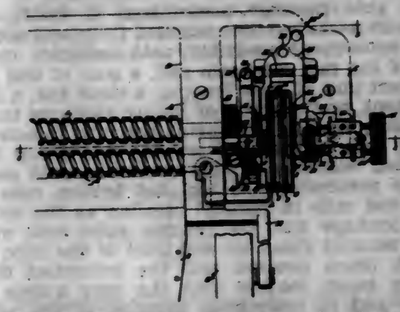
1. In a support for a driving trough section of a shaker conveyor and in combination with a shaker conveyor drive mechanism having a main frame, drive means connecting said drive mechanism with said driving trough section for reciprocably driving said trough section, means for adjustably supporting said driving trough section on opposite ends of said main frame to conform to the inclination and height of the conveyor trough line and for reciprocably guiding and holding said driving trough section from lateral and vertical displacement in all positions of adjustment of said trough section with respect to said main frame including a pair of roller frames each being mounted between transversely spaced adjusting members and pivoted, about a transverse axis, to an eccentric portion of each adjusting member, each of said adjusting members having a portion thereof rotatably adjustably journaled within a transverse cylindrical bore formed in said main frame and having a flange overlapping a corresponding main frame portion, bolt means acting between each flange and its corresponding main frame portion effective to lock each adjusting member in a series of rotational adjusted positions to thereby vary the height and inclination of said driving trough, and a plurality of circularly spaced, eccentric, transversely extending lugs on each adjusting member for engaging a bar to facilitate adjustment.

2,656,038

TYPOGRAPHICAL DISTRIBUTING MECHANISM

William B. Abbott, Springfield Gardens, and Paul Hilpman, Garden City, N. Y., assignors to Mergenthaler Linotype Company, a corporation of New York

Application February 1, 1951, Serial No. 206,970
14 Claims. (Cl. 199—43)



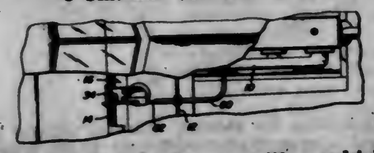
1. Typographical distributing mechanism comprising, in combination, rotatable screws for conveying matrices along a distributor bar, one of said screws being displaceable axially driving and driven members normally frictionally engaged to transmit power to the screws, a driven shaft, a threaded sleeve fast to the driven member and keyed to said shaft, a spring-urged locking pawl to hold the driven member out of operative relationship with the driving member but normally held out of operation, and means controlled by the axial displacement of said distributor screw and presenting an element engageable with the threads of said threaded sleeve for shifting the driven member out of operative relationship with the driving member and releasing said locking pawl.

2,656,039

PNEUMATIC ASH TRAY FOR AUTOMOTIVE VEHICLES

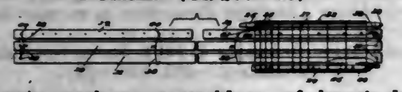
Ted Leland, Sacramento, Calif.

Application November 30, 1949, Serial No. 130,196
5 Claims. (Cl. 206—19.5)



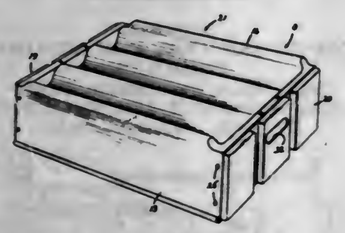
1. An ash remover for use with a vehicle having an internal combustion engine provided with a fuel induction system, comprising a casing adapted to be mounted in said vehicle, an ash tray slidably mounted in said casing, said ash tray being movable into an extended position and into a retracted position, a suction tube connected to said induction system and to said casing, an ash receptacle detachably connected on said casing, said casing having a passage extending between said tube and said receptacle, said casing having a second passage extending between said ash tray and said receptacle, a valve in said first-mentioned passage, a spring biased actuating rod for said valve, a swinging latch on said casing, a spring pressed detent mounted in said ash tray, said casing having a recess engageable by said detent, stop means on said actuating rod manipulating said swinging latch, and resilient means biasing said ash tray to extended position.

2,656,040
DISASSEMBLED GATE PACKAGE
William O. Pope, Greenfield, Ind.
Application January 2, 1951, Serial No. 203,341
1 Claim. (Cl. 206—46)



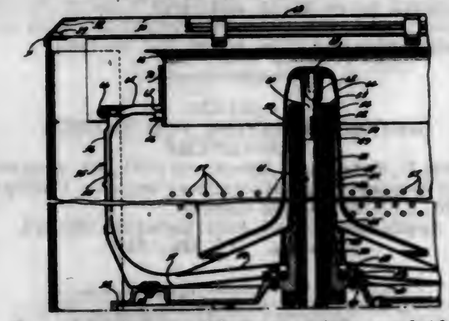
A gate package assemblage of knock-down type in packaged disassembled form and adapted for subsequent assembly, said assembly including a top rail, a bottom rail, a pair of end rails, a sheet unit of wire fencing, a strut bar, a brace element, and a group of fitting elements including bolt means for securing the rails in assembly form and for hinging service, said group being located within a flexible container, said assemblage presenting the top and bottom rails and the end rails in parallel relation as the core of the package with the fencing sheet unit wound and secured about an end zone of the core, said strut, brace element and the contained fitting group being located with the core within said zone and in underlying relation to the wound fencing unit, said rails being tubular in cross-section with the brace element, rails and strut having transverse openings therein substantially aligned in the packaged assemblage and receiving tying means to maintain the packaged form of the assemblage.

2,656,041
ENCLOSED CAKE TRAY
Ben Elwood White and John A. Cushman, Jr., Reedsville, and Andrew A. Dukert, Upper Darby, Pa., assignors to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application April 4, 1950, Serial No. 153,778
2 Claims. (Cl. 206—72)



1. Apparatus for storing annular strand packages and substantially enclosing them from the atmosphere comprising a plurality of similar trays, each tray having two side walls and two end walls and a floor for supporting a plurality of packages, said floor comprising a plurality of arcuate valleys of approximately similar depth and radius of curvature, the valleys extending in parallel relationship in a longitudinal direction toward and away from the end walls, said walls having a height of at least twice said radius of curvature and being joined along their top portions to the periphery of the floor to completely enclose a region underneath the floor, said radius of curvature being equal to or greater than the radius of the exterior surfaces of the packages, the axes of said arcuate valleys extending transversely above the upper edges of the end walls, the upper periphery of each tray comprising upwardly facing surfaces on one pair of opposite walls and outwardly facing surfaces on the other pair of walls of the tray, the lower periphery comprising downwardly facing surfaces on one pair of opposite walls and inwardly facing surfaces on the other pair of walls of the same tray, the upper periphery of each being of mating configuration with its lower periphery adapting one tray to be placed on top of another with the lower periphery of the upper tray in mating relationship with the upper periphery of the adjacent lower tray, the walls of adjacent trays when stacked one on top of the other being contiguous and having said upwardly and downwardly facing surfaces in abutting relationship and said inwardly and outwardly facing surfaces in overlapping relationship thereby substantially enclosing the package-supporting floors of all trays except that of the top tray in the stack from the atmosphere.

2,656,042
CENTRIFUGAL WASHING AND DRYING MACHINE
Peter Eduard Geldhof and Luther Ringer, St. Joseph, Mich., assignors to Whirlpool Corporation, a corporation of New York
Original application June 21, 1943, Serial No. 491,618. Divided and this application September 8, 1947, Serial No. 772,630
1 Claim. (Cl. 210—63)



In a laundry machine, a casing, a platform within said casing spaced a substantial distance above the bottom thereof, a plurality of suspension links, means supporting said links on said casing adjacent the upper end thereof and yieldably restraining gyratory movement of said links about their upper ends, means suspending said platform from the lower ends of said links and yieldably restraining gyratory movement of said platform about said links, a fluid containing tub secured to said platform and extending upwardly therefrom, a clothes containing basket rotatably mounted on said platform within said tub, drive mechanism depending from the bottom of said platform, said tub having an annular rim extending over the top of said basket and terminating in a flange extending within said basket and above the top thereof and forming a non-rotatable clothes receiving opening for said basket, and an annular counterbalancing weight encircling said flange and secured to the outer periphery thereof and extending above the top of said basket and the region of the unbalanced mass of clothes therein.

2,656,043
TOWEL AND SIMILAR ARTICLE HANGER
Clarence H. Weld, Boise, Idaho
Application January 11, 1951, Serial No. 205,516
2 Claims. (Cl. 211—89)

1. An article hanger comprising a base having a flat surface, a nut embedded in said base, a bolt having one end portion piercing said base and screwed into said nut, the opposite end portion being headed and said head being spaced from the flat surface of the base, a spacing sleeve surrounding said bolt and bearing at one end against the flat face of the base, a single length of wire bent intermediate its ends and defining a substantially V-shaped article gripper, said gripper embodying a crotch with a vertex and the adjacent converging portions embracing the bolt and interposed between the sleeve and the head of the bolt, said crotch portion being disposed in a position extending upwardly from and slanting slightly outwardly away from the flat face of the base, the free end portions of the limbs of said wire being bent laterally with respect to said V-shaped gripper, said free end portions being at right angles to and fastened to said base, the junctural connecting portions between the arms and diverging limbs of said V-shaped gripper being rounded to facilitate piloting and feeding the article to be held into a clamping position between said limbs.



2,656,044
WIRE FRAME FOR GARMENT HANGERS
Donald W. Doherty, Crystal Lake, Ill., assignor to Queen Manufacturing Co., Inc., Chicago, Ill., a corporation of Illinois
Application September 8, 1951, Serial No. 245,693
2 Claims. (Cl. 211—119)



1. In a garment hanger support, an open frame and a wire cross bar rigidly connecting opposite sides of said frame, said cross bar being formed between its ends with a substantially Z-shaped bend with the intermediate transverse portion of said bend extending substantially at right angles to the general longitudinal axis of said bar and in a plane generally parallel to the plane of said open frame, and a supporting hook for said frame having an eye hinged on said intermediate portion, and an arcuate terminal hook portion, the said transverse intermediate portion of the Z-shaped bend including a portion which is offset laterally toward one side of the general longitudinal axis of said cross bar and whereon the eye of the hook is hinged to said portion, whereby the shank of said hook is collapsible into substantially parallel relation along one side of said cross bar when swung in one direction, but with the swinging movement limited by engagement of the arcuate hook portion with the cross bar.

2,656,045
KNOCKDOWN SHELVING
Philip C. Curtis, Scottsdale, Ariz.
Application July 10, 1951, Serial No. 235,958
2 Claims. (Cl. 211—148)



1. A knockdown table assembly of the type described comprising the combination of a pair of side base members, each of said side base members being comprised of a floor engaging elongated web portion and leg elements projecting upwardly from each end of said web portion, each of said leg elements in turn being provided with a plurality of upwardly projecting spaced fingers at the free ends thereof, a pair of end frames, each of said end frames being comprised of a web portion and leg elements projecting downwardly from each end thereof and at a transverse angle to the upwardly projecting legs of the said side base members, each of said downwardly projecting leg elements on said end frames also being provided with a slot on its inner marginal edge intermediate the ends thereof and a plurality of spaced downwardly projecting fingers at the free ends thereof which are adapted to interlock at an angle with the upwardly projecting fingers on the legs of the said side base members, a flat shelf member adapted to be engaged adjacent the corners thereof by the said slots located in the legs of the said end frames intermediate the ends of the said legs, and a table top provided with transverse elongated recessed portions on the underside thereof adjacent the ends thereof, mounted upon the webs of said end frames in super-imposed relationship to said shelf, the tops of said webs of the end frames being receivable within the said recessed portions on the underside of said table top.

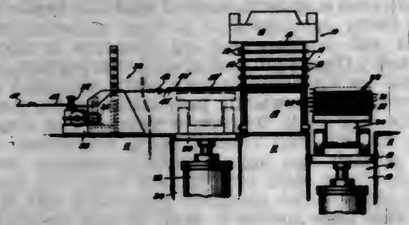
2,656,046
MINE COUPLER
Carl N. Rydin, Warrenville, Ill.
Application July 29, 1949, Serial No. 107,457
1 Claim. (Cl. 213—104)



In a coupler, a hollow coupler head having a forwardly projecting tapered guide nose on one

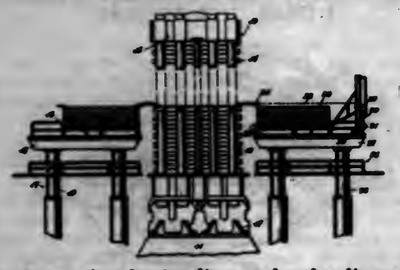
side of its longitudinal axis and a nose receiving recess on the opposite side of its longitudinal axis, the inner face of said nose having an opening communicating with the interior of the hollow head, a knuckle received in said head having a hinge barrel on its inner end and a jaw on its outer end, pivot means connecting the barrel with the head, said knuckle intermediate the barrel and jaw being provided with a guide opening, a guide rod slidable in said opening, a stop on the inner end of said rod, tension means on said rod interposed between the stop and knuckle, and the outer end of said rod having a head, one wall of said opening in the nose being provided with a slot for receiving the rod and a seat for the head.

2,656,047
PRESS LOADING AND UNLOADING APPARATUS
Lee F. Samler, Baltimore, Md., assignor to The National Plastic Products Company, Odenton, Md., a corporation of Maryland
Application October 11, 1948, Serial No. 53,835
4 Claims. (Cl. 214—1)



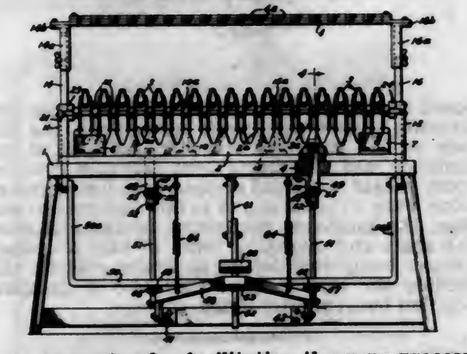
4. In a sheet material handling apparatus for use with a press having a plurality of platens arranged in tiers to receive a plurality of stacked layers of sheet material, an elevator positioned beside the press and operative to successively level the top layer of material with a platen of the press, means including a winch and a plurality of rollers on the other side of the press operative to successively draw the top layer of material from the elevator onto a platen of the press, and restricting means positioned between said stacked layers to prevent movement of successive layers as said top layer is drawn from said elevator.

2,656,048
APPARATUS FOR LOADING AND UNLOADING LAMINATING PRESSES
Lee F. Samler, Baltimore, Md., assignor to The National Plastic Products Company, Odenton, Md., a corporation of Maryland
Application June 22, 1951, Serial No. 233,087
4 Claims. (Cl. 214—1)



4. Apparatus for loading and unloading a press formed with a plurality of platens arranged in tiers, comprising a loading elevator located on one side of said press and adapted to receive thereon in successive tiers a stack of material to be worked, an unloading elevator located opposite said loading elevator and adapted to receive thereon in successive tiers a stack of worked material, means for adjusting said elevators so that the top of each stack of material is in line with the platen of the press being loaded, first link means adapted to be associated with successive tiers of said stack of material to be worked and to the corresponding tiers of said worked stack of material, second link means adapted to be associated with successive tiers of said worked material, and means associated with said second link means and positioned on said unloading elevator for drawing successive tiers of said worked material from said press and simultaneously drawing successive tiers of material to be worked into said press.

2,656,049
CLIP EXPANDER
Albert L. Guyette, Keene, N. H.
Application January 27, 1949, Serial No. 73,208
2 Claims. (Cl. 214—1)



1. Apparatus for facilitating the gang processing of a plurality of articles comprising a supporting frame, upstanding supporting brackets on the opposite sides of said frame, said brackets having transverse horizontal open slots, a rectangular bar adapted to fit into said slots, a plurality of alligator type gripping devices having flat operating arms on one side of the fulcrum and gripping jaws on the opposite side thereof, said flat arms having rectangular openings therein adapted to engage said bar when a plurality of said devices are assembled on said bar in side-by-side relation so that said gripping devices are also supported in fixed relation to said frame, means having a pair of converging surfaces for each of said operating arms adapted to be moved toward the latter and means for moving said latter means toward said operating arms to cause the latter to move toward each other to manipulate simultaneously all of the jaws of said gripping devices.

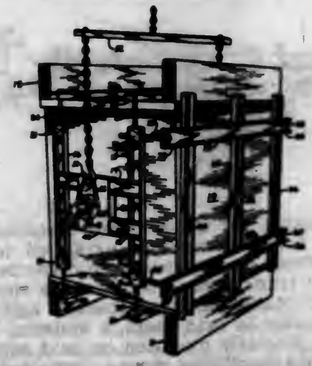
2,656,050
DOLLY FOR ROLLED MATERIALS SUCH AS CARPETING
Leon H. Best and Oscar W. Johnson, Galva, Ill., assignors to John H. Best & Sons, Inc., Galva, Ill., a corporation of Illinois
Application October 12, 1950, Serial No. 189,869
12 Claims. (Cl. 214—1)

1. In a dolly, a pair of end frame members of downwardly convex form, a pair of parallel side frame members rigidly connecting the ends of said end frame member to form a rectangular frame structure, casters on said frame structure for movably supporting the same, a plurality of rollers supported in said end frame members in spaced relation to each other and parallel to said side frame members with the upper surfaces of said rollers being disposed above the level of aligned portions of said end frame members to thereby afford a supporting cradle upon which a roll of carpet or the like may be rotatably supported, a mounting tube supported between said end frame members parallel to and below the upper surfaces of said rollers, one of said end frame members having an opening therethrough into said tube, a handle adapted to be disposed within said tube and having an outer end and an inner



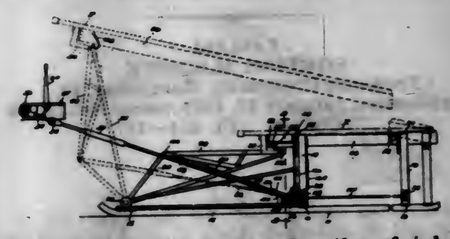
end, said inner end having a short flexible cable fixed thereto, said outer end being extended beyond said one of said end frame members when said handle is disposed within said tube, said flexible cable having an abutment element thereon disposed within said tube, a fixed abutment member extended radially inwardly with respect to said tube for engagement by said abutment element, to limit withdrawing movement of said handle from said tube, the length of the unencumbered portion of said cable being such as to provide a substantial clearance between the inner end of said handle and the outer side of said one of said end frame members when said handle is withdrawn from said tube to the extent of engagement between said abutments thereby affording a flexible handle connection for said dolly.

2,656,051
TURNOVER MECHANISM
Phil H. Jenkins, Columbus, Ohio
Application January 10, 1951, Serial No. 205,289
3 Claims. (Cl. 214—1)



3. A mechanism for turning over end for end a pile of stacked sheets positioned between a pair of skid members comprising a pair of H-shaped end frames adapted to be placed one at each end of the stack to support the stack; bar means adapted to be positioned across each of the skid members and having slotted ends formed therein; bolts carried by said end frames adapted to be received in said slotted ends for connecting the end frames and bar means; a side frame adapted to be placed at one side of the stack to support the stack having slotted ends formed therein; bolts carried by the end frames and adapted to be received within said slotted ends of the side frame to provide for connecting the side frame to the end frames; pivot means, including a ratchet mechanism, connected to each end frame to provide for turning the stacked sheets and skid members over end for end in one direction only; and means for applying a lifting force to the pivot means whereby the stacked sheets and skid members can be lifted and turned over end for end.

2,656,052
APPARATUS FOR FEEDING LENGTHS OF DRILL PIPE IN SUCCESSION TO THE DRILL PIPE ELEVATOR OF DRILL RIGS
Samuel J. Tucker, Memphis, Tenn.
Application November 5, 1951, Serial No. 254,957
8 Claims. (Cl. 214—2.5)

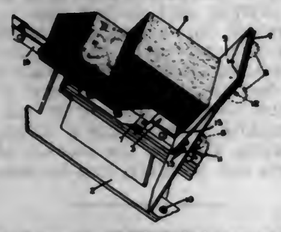


1. Apparatus for feeding lengths of tubular conduit in succession to the elevating apparatus of a drill rig comprising an elongated transversely tiltable carriage mounted to move longitudinally from a horizontal position remote from a drill rig to an upwardly inclined position adjacent the drill rig means mounted between the carriage and the drill rig and connected to the carriage adjacent one end thereof for so moving the carriage, means connected to the carriage moving means and to the carriage for tilting said carriage to conduit receiving position as it approaches the horizontal, a table mounted adjacent the carriage for supporting parallel lengths of tubular conduit in parallel relation to the carriage for transfer to the carriage when it is in its conduit receiving position, and a finger pivoted to the table adjacent the carriage and operable by the tilting of the carriage for engaging a length of tubular conduit and transferring it from the table to the carriage.

2,656,053
TILE-COUNTING DEVICE
Le Roy D. Bishop, Kankakee, Ill., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application March 13, 1951, Serial No. 215,369
4 Claims. (Cl. 214—8.5)

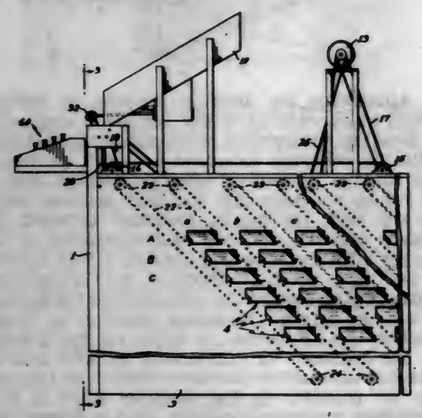
1. In a device for counting tiles and like articles, a stepped member having a plurality of article-engaging stops thereon spaced apart a distance greater than the maximum thickness of the articles to be counted and inclined article-separating surfaces each extending from a point which is disposed above one article-engaging stop a distance less than the minimum thickness of the articles to be counted to the next adjacent article-engaging stop; a support for a stack of articles

to be counted comprising a movable plate against which one of the edges of the articles in the stack may abut and means for mounting said plate for free movement substantially in the plane of the flat faces thereof; and means for moving said stepped member with respect to said support to



bring said stepped member into engagement with a stack of articles disposed on said support to dispose said articles in engagement with said article-engaging stops on said stepped member, said plate moving freely along its path of movement as said articles in engagement therewith are elevated by said stepped member.

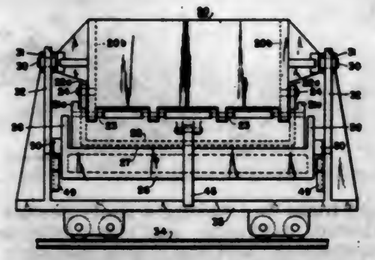
2,656,054
SORTING MACHINE
Frederick C. Gleason, Montpelier, Vt.
Application January 18, 1949, Serial No. 71,408
7 Claims. (Cl. 214—11)



1. A sorting machine for mail and the like which comprises a plurality of chutes mounted in a supporting framework and spaced longitudinally thereof, said chutes extending substantially transversely of the framework completely through from one side of the framework to the other and being substantially parallel to one another, an article supply source for positioning a supply of articles to be sorted and means for conveying the articles from the supply source substantially longitudinally of said framework to the chutes, each chute being inclined transversely of the frame and having an opening in one side through which articles may be delivered to the chute, each chute also being open at both ends and inclined to such a degree that an article delivered to the chute will slide out of the lower end of said chute.

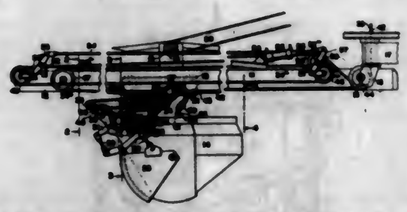
4. A group of sorting machines for mail and the like, each machine comprising a plurality of chutes spaced longitudinally thereof, each chute extending and being inclined substantially transversely of the machine and being open at both ends, and means for conveying articles from an article supply source to said chutes, the machines of the group being arranged side-by-side in vertically-stepped relation with the end of each chute of one machine engaging an end of the corresponding chute of the adjacent machine, whereby the corresponding chutes of the group of machines form continuous chutes through which all articles delivered by the machines to said corresponding chutes pass and are delivered to a single collection point for all machines.

2,656,055
MEANS FOR CHARGING SCRAP METAL
Levi S. Longenecker, Pittsburgh, Pa.
Application July 5, 1951, Serial No. 235,291
13 Claims. (Cl. 214—18)



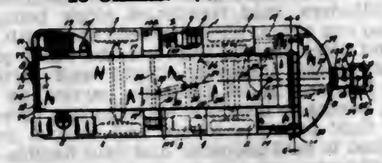
1. A device for charging material into a charging opening of a furnace which comprises, a container for supporting a charge of material in front of the charging opening, material delivery means operatively associated with said container to bridge the spacing between a bottom portion of said container and the charging opening, and rocker means to actuate said container with respect to said delivery means and discharge material from said container to said delivery means and into the charging opening.

2,656,056
DISTRIBUTING BUCKET FOR ADJUSTABLE ANGLE BOOMS
Rudolph F. Lindow, Wauwatosa, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application December 20, 1948, Serial No. 66,286
6 Claims. (Cl. 214—59)



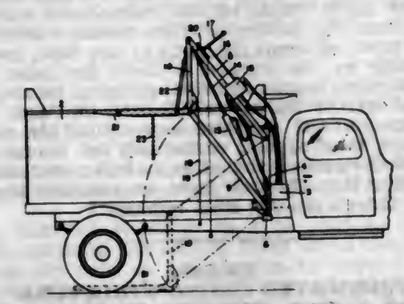
6. Apparatus for distributing materials comprising a boom, a carriage arranged to travel back and forth on said boom, said carriage having a pivot transverse to the boom, a supporting member pivotally mounted thereby and having a pivot parallel to said boom, a material holding receptacle pivotally mounted on said supporting member, and stabilizing means connected to said carriage and having a universal connection with said receptacle in line with the pivot transverse to the boom whereby pivotal movement of said receptacle and said supporting member may be restrained while the receptacle is free to pivot about the axis parallel to the boom.

2,656,057
TIMBER SETTING MACHINE
Lloyd G. Felderman and Arthur S. Knoisen, Franklin, Pa., assignors to Joy Manufacturing Company, a corporation of Pennsylvania
Application May 8, 1947, Serial No. 746,832
13 Claims. (Cl. 214—75)



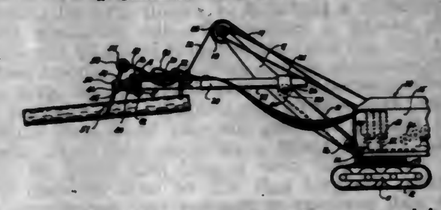
1. In a timber setting machine, the combination comprising a portable body having a horizontal supporting surface arranged centrally between its sides and extending longitudinally thereof and adapted to receive a load of mine timbers with the latter extending generally lengthwise of said body, a timber-receiving saddle arranged at one end of said body and positionable to receive a timber moved endwise from said body, and an adjustable supporting structure for said saddle mounted on said body in spaced relation to said timber supporting surface and including a horizontal support adjustable horizontally relative to said body from one side thereof to the other while said body remains stationary to locate said saddle in different lateral timber supporting positions, means for confining said horizontal support to adjustment in horizontal planes with respect to said body, said supporting structure also including an extensible, vertical power elevating jack mounted on said horizontally adjustable support and by which said saddle is carried for elevating said saddle in any horizontal position of adjustment of said support relative to said body to move a timber supported by said saddle vertically up against a mine roof and to hold it there during setting of said timber.

2,656,058
TRUCK LOADING AND UNLOADING MECHANISM
Alfred F. Foote, Cleveland, Ohio, assignor of one-half to Elmer W. Baumann, Cleveland, Ohio
Application April 10, 1948, Serial No. 20,264
17 Claims. (Cl. 214—77)



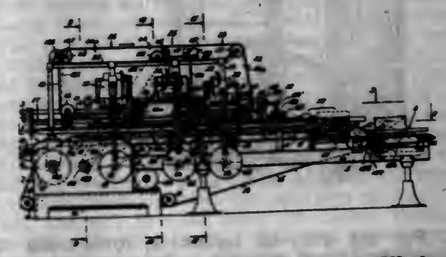
1. Lifting mechanism comprising a vertical column pivotally mounted for rotation about its vertical axis, spaced parallel link members of equal length pivotally secured to said column for movement in the same vertical plane, a third link pivotally connecting the outer ends of said spaced link members, said third link being of a length equal to the distance between the points of pivotal attachment of said spaced link members to said column, whereby said links and column define a parallelogram, a piston-cylinder assembly pivotally mounted substantially diagonally on said parallelogram structure, fluid pressure means operative to move such piston to elevate said third link relative to said column, a load-supporting platform carried by the lower end portion of said third link for pivotal movement about a horizontal axis lying in the same plane as said links, means adapted releasably to secure said platform in horizontal position, an auxiliary platform carried by said third link and adapted to support an operator, and means carried by said mechanism within reach of an operator riding on said auxiliary platform for regulating said fluid pressure means and for releasing and tipping said load-supporting platform.

2,656,059
LOGGING CRANE
Marc D. Troyer, Seattle, Wash., assignor to Berger Engineering Company, Seattle, Wash., a corporation of Washington
Application August 23, 1949, Serial No. 111,811
2 Claims. (Cl. 214—147)



1. An apparatus for loading logs comprising a mobile turntable, a boom mounted on the turntable to swing therewith, a boom-stick mounted by the boom for vertical, angular adjustment and for extension and retractive movements, a frame pivotally mounted at the outer end of the boom-stick for horizontal turning adjustment between positions facing toward opposite sides of the stick, a pair of laterally spaced and downwardly directed log gripping tongs pivotally mounted on the frame, power means on the stick for effecting and retaining said turning adjustments of the frame and power means connected to the tongs for controlling their opening and closing action.

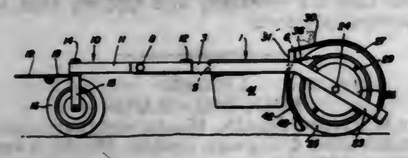
2,656,060
SHIPPING CASE UNLOADING APPARATUS
Paul E. Fischer, Portland, and Edgar Ardell, Middletown, Conn., assignors, by mesne assignments, to Emhart Manufacturing Company, a corporation of Delaware
Application January 20, 1945, Serial No. 573,802
12 Claims. (Cl. 214—309)



6. In apparatus for unloading cases filled with tiers of containers and partitioning therefor, a plurality of unloading stations, alternate stations each having an upwardly reciprocable lift-

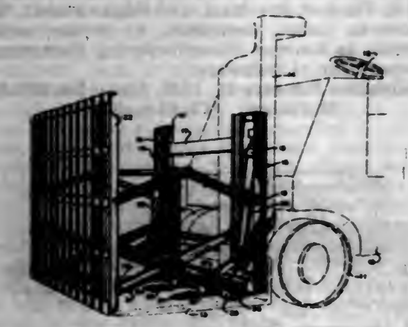
ing head and adapted to lift respectively a tier of containers above and a tier below the partitioning out of a case, an intermediate unloading station having a lifting head adapted to lift out the partitioning, means for simultaneously reciprocating said lifting heads, and means for advancing the cases to said stations successively.

2,656,061
GOLF BALL RETRIEVER
Edward G. Lockie, Bettendorf, Iowa
Application May 29, 1950, Serial No. 164,883
8 Claims. (Cl. 214—356)



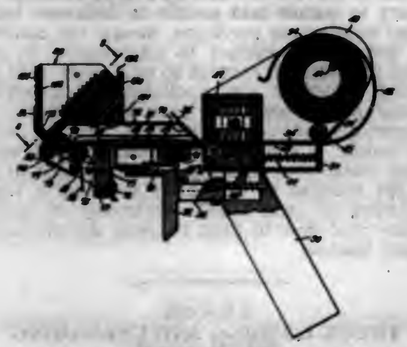
1. A golf ball retriever comprising a frame, including side bars spaced apart laterally, a roller comprising a plurality of axially aligned wheels, each having a resilient tire-like periphery with side wall portions displaceable laterally inwardly independently of one another, said wheels being interconnected to rotate together, an axle on which said wheels are mounted for rotation in said frame, between the side bars, said wheels being spaced apart a distance such that, when the wheels roll over a golf ball lying on the ground, the golf ball will be held between the side wall portions of the tire-like peripheries of two adjacent wheels and be carried upwardly by the rotation of the wheels, a shield covering the upper part of the wheels, a crossbar fixed at its ends to said side bars just in advance of said wheels, a plurality of stripper bars fixed to said crossbar and extending into the spaces between the wheels for removing any balls held by the wheels and the shield, and one or more containers carried adjacent said stripper bars for receiving golf balls stripped from said wheels by said bars.

2,656,062
PALLET GRIPPING DEVICE
Julian B. Thomas, Fort Worth, Tex.
Application March 28, 1950, Serial No. 152,357
11 Claims. (Cl. 214—514)



1. For use with an industrial fork truck for transporting load carrying pallets and having a fluid pressure operated pallet unloader, a pallet gripping device comprising spaced parallel cylinders s cured to said truck, a double ended hollow piston slidably disposed in each cylinder, each piston having a partition at substantially the midpoint thereof, a flexible fluid pressure conduit connecting the hollow outer ends of each piston, a second flexible fluid pressure conduit connecting the hollow inner ends of each piston, right and lefthand blocks slidably mounted on said cylinders, said righthand block being secured to one piston for movement therewith, said lefthand block being secured to the other piston for movement therewith, right and lefthand pallet gripping shoes pivotally carried by said blocks, means to bias said shoes in one direction and a fluid pressure source and control means connected to said unloader and said flexible conduits whereby upon actuation of said control means said gripping shoes will move toward each other to grip said pallet and automatically compensate for any misalignment between said pallet and said truck and thereafter said unloader will operate to remove the load from the pallet.

2,656,063
LABELING APPARATUS
Robert S. Kafka, Woodside, N. Y., assignor to Midland Equipment Corp., New York, N. Y., a corporation of New York
Application April 2, 1948, Serial No. 18,507
24 Claims. (Cl. 216—2)

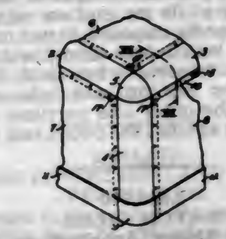


1. A labelling gun for the application of adhesive tape having a plurality of layers of which one bears pressure-sensitive adhesive and another covers the adhesive until use, comprising a frame, a grip, and a trigger, a tape supply holder, guide means on the frame for a strip of tape from the holder, printing means carried by the frame adjacent the path of the tape, means operable by the trigger to force the tape and the printing means together, gripping means operable by the trigger to advance the tape and to separate the adhesive layer from the cover layer, a label applier carried by the frame adjacent the path of the adhesive layer, and means to sever the adhesive layer as pressure is applied thereto by the label applier.

2,656,064
FABRICATED CASING STRUCTURE
Harvey A. Buss, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application March 29, 1946, Serial No. 658,320
1 Claim. (Cl. 220—4)

A corner member for a fabricated casing comprising a pair of transversely arcuate strips of equal length and unequal width rigidly united in concentric nested relation with the concave surface of the narrow strip abutting the convex

surface of the wide strip and leaving exposed marginal side edge portions thereof disposed in generally tangential relation with respect to the adjacent side edge portions of said narrow strip, and a hollow three-edge part having a plain



curved outer surface conforming with the curvature of said narrow strip and being rigidly secured to an end of said pair of rigidly united strips in edge abutting and substantially flush relation with respect to the end edge and convex outer surface portion of said narrow strip.

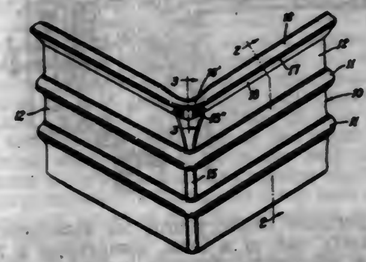
2,656,065
CONTAINER KEY
James Breese, Stewart Manor, N. Y.
Application February 9, 1952, Serial No. 270,855
1 Claim. (Cl. 220—52)



A pressure key comprising an operating handle and a winding tool, said tool comprising an elongated shank having parallel side edges and an end face and a centrally located longitudinal slot between said edges, the said edges of the said shank being notched substantially throughout their length to form gripping means, and the shank end remote from said handle being provided with an opening in the said end face removably receiving identification means.

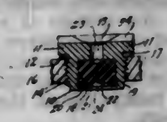
2,656,066
METAL BOX RIM CONSTRUCTION
Edmund W. Riemenschneider, Hartville, Ohio, assignor to The Union Metal Manufacturing Company, Canton, Ohio, a corporation of Ohio
Application November 22, 1949, Serial No. 129,065
3 Claims. (Cl. 220—74)

1. Rim construction for a rectangular materials handling box having sheet metal side walls integrally bent at right angles to form a relatively sharp corner between adjacent side wall, including a continuous, integral, flat-top, rim bead, generally triangular in cross-section, at the upper ends of said side walls and sharp corner; said triangular rim including, a top flange portion extending outwardly from and at right angles with respect to each adjacent side wall, a top rim corner flange portion integrally continuous with and connecting said top flange portions above the sharp corner between said adjacent side walls, each top flange portion being turned downwardly at its outer edge and then downwardly inwardly as an inclined skirt flange portion terminating at its connected side wall beneath said top flange portion, the top rim corner flange portion being turned downwardly at its outer edge, then downwardly inwardly as an inclined corner portion and then downwardly along, around and contiguous with the sharp corner between adjacent side walls as a skirt corner portion, said inclined and skirt



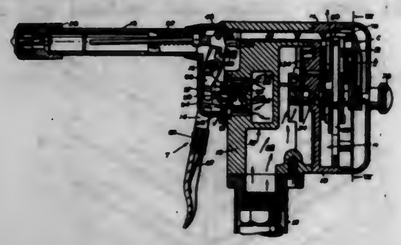
corner portions being integrally continuous with and connecting said adjacent inclined side wall skirt flange portions, the metal at the place of merger between the side walls and the top rim corner flange portion being displaced slightly inwardly with respect to the sharp corner, and the side wall metal immediately below said place of merger being displaced slightly outwardly with respect to the sharp corner to form shallow concave portions.

2,656,067
CIGARETTE LIGHTER FILLING PLUG
Garland W. Mitchell, Butner, N. C.
Application May 5, 1950, Serial No. 160,265
3 Claims. (Cl. 220—86)



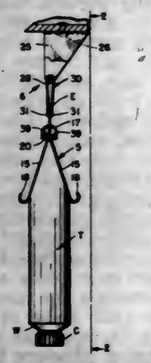
1. In combination with a cigarette lighter case having an internally screw-threaded filler opening therein, a filler plug comprising a hollow plug body having an externally screw-threaded portion of cylindrical shape threaded into the filler opening in said case and an end wall portion on one end of said cylindrical portion extending marginally beyond said cylindrical portion to provide an annular flange and having a centrally disposed aperture therein, a gasket interposed between said flange and the adjacent surface of said case, said portion of cylindrical shape having an internal annular groove therein spaced from said end wall, a body of elastic material of cylindrical shape filling said plug body between said end wall and said internal groove and having a slit extending longitudinally therethrough in registry with the aperture in said end wall, and a centrally apertured disc marginally engaged in said internal groove and compressing said body of resilient material between itself and said end wall, said plug being adapted to receive a syringe stem through the aperture in said end wall, the slit in said body of elastic material and the aperture in said disc and said body of elastic material being effective to resiliently close the stem receiving passage through said plug upon the removal of a syringe stem from the passage.

2,656,068
DISPENSING HOSE NOZZLE WITH METERING DEVICE
Harry Godfrey Soar, Streatham Vale, London, England, assignor to Beck & Co. (Meters) Limited, London, England
Application June 28, 1949, Serial No. 101,738
In Great Britain August 9, 1948
3 Claims. (Cl. 222—22)



1. A portable delivery unit for attachment to the delivery end of a hose, comprising a liquid meter; a volumetric delivery indicator operated by the meter; manually operable means for initiating delivery; means for automatically stopping the delivery when a desired unitary quantity of liquid has been delivered; the means for initiating delivery comprising a hand-operated trigger controlling a valve on the delivery side of the meter; and the delivery indicator comprising a dial having two hands, including a first hand, which are driven by the meter over the dial in which means controlled by the means driving the first hand are provided which, when the trigger has been operated to initiate delivery, preclude the return of the trigger into the delivery stopping position except when the first hand is in a particular angular position; said latter means comprising a notched disc, and the trigger being spring-loaded so as to be biased towards the delivery stopping position and being connected to a part which, when the trigger is released by the operator, is pressed by the trigger spring against the face of the notched disc, whereby the trigger will be held against movement into the delivery stopping position except when the notch comes opposite the said part.

2,656,069
COLLAPSIBLE TUBE DISPENSER
Harland J. Fogarty and Eva A. Fogarty, San Bernardino, Calif.
Application June 17, 1949, Serial No. 99,762
1 Claim. (Cl. 222—103)



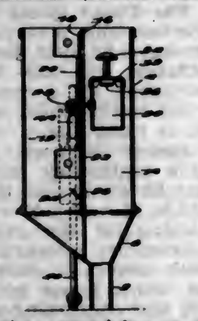
A one-piece tube collapsing dispenser comprising a stamping of resilient material shaped to provide a pair of opposed jaws adapted to receive a collapsible tube therebetween and connected together at their top ends by a pair of flexible, integral webs shaped to permit the jaws to swing into contact with each other and to swing apart; said webs being spaced apart far enough to permit said tube to pass therebetween; and each of the jaws having at its top end an outwardly, upwardly and inwardly disposed flange medially between and of a length less than the distance between the webs whereby when said dispenser is reversed end for end on said tube said flange fully collapses the outer end portions of the side walls of the tube against the outlet end wall thereof.

2,656,070
WATCH OILER
Winfred T. Linder, Spartanburg, S. C.
Application June 22, 1950, Serial No. 169,590
1 Claim. (Cl. 222—117)



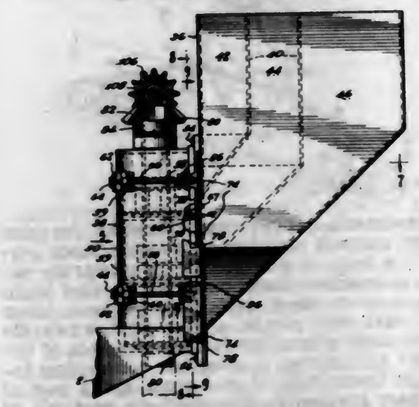
A watch oiler comprising, a reservoir which is approximately 14 mm. long and having an internal diameter of approximately 3 mm., said reservoir having one end open and including a removable coupling which closes the open end, said reservoir being of a size to receive and hold from three to six drops of oil only, a handle detachably connected with the coupling, a relatively long tube connected with the end of the reservoir remote from the coupling, said tube having a bore, the diameter of the bore being substantially .35 mm., the diameter of the bore being such that heavy watch oil may be fed through the tube by capillary action alone, the tube having an exterior diameter too large to permit the tube being inserted within the oil cups of jewel bearings of bracelet watches, and a relatively short tube carried by the forward end of the long tube and projecting beyond the same to receive the oil therefrom, said relatively short tube having an exterior diameter sufficiently small for insertion within the oil cups of such jewel bearings, the relatively short tube not materially interfering with the feeding of the heavy oil through the long tube due to the capillary action.

2,656,071
SEED PLANTER
David M. Smith, Durham, N. C., assignor to Smith Implement Company, Durham County, N. C., a corporation of North Carolina
Application January 24, 1951, Serial No. 207,510
8 Claims. (Cl. 222—133)



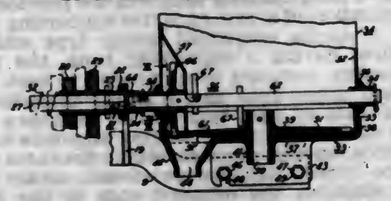
1. A seed planter comprising an elongated tube, means forming a chamber at the upper end of the tube, a plate, means mounting said plate within said chamber for sliding movement, said mounting means and plate dividing the chamber into two compartments, said tube communicating with the first of said compartments, means responsive to sliding movement of the plate to transfer large seeds from the second compartment to the first compartment, and a container carried by the plate within the first compartment, said container having at least one restricted opening near its top.

2,656,072
DEVICE FOR MIXING AND FEEDING FERTILIZER
Howard G. Kornberg, Fargo, N. Dak.
Application June 23, 1950, Serial No. 169,824
12 Claims. (Cl. 222—134)



1. In a device of the class described for mixing powdered material the combination of a casing, a tubular member rotatably mounted therein, means dividing said casing into compartments arranged longitudinally of said tubular member, means for supplying different powdered materials to the several compartments in said casing, said tubular member having an opening located in each compartment, means in each compartment for covering the opening in the tubular member therein, said last mentioned means having a passage communicating with said opening, means for directing powdered material through said passage and said opening into said tubular member when said tubular member is rotated, and means for rotating said tubular member.

2,656,073
FERTILIZER DISPENSING MECHANISM
August G. Buhr, La Crosse, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application March 26, 1949, Serial No. 83,538
18 Claims. (Cl. 222—164)



17. In a traveling support having a power transmitting shaft disposed in transverse relation to the direction of travel and having a hopper attaching station disposed outwardly adjacent each end of said shaft, the combination of a material dispenser comprising a hopper structure and a feeder shaft rotatably mounted on said hopper structure in a position presenting an end portion of said feeder shaft in transversely and outwardly extending relation to a side wall portion of said hopper structure, fastening means operable to selectively secure said material dispenser to said support in an operative position at one or the other of said attaching stations, said fastening means comprising a pair of similar exterior projections on said hopper structure at opposite sides, respectively, of a plane extending radially from and in the longitudinal direction of said feeder shaft, pivot means cooperable with one or the other of said projections and mountable on one or the other of said attaching stations so as to hinge said material dispenser at either of said attaching stations for swinging movement outwardly from said support and into an inverted position about an axis generally parallel to the direction of travel, and releasable locking means cooperable with one or the other of said projections and with one or the other of said attaching stations so as to secure said material dispenser in each of said operative positions thereof against said outward swinging movement; and releasable coupling means cooperable with said end portion of said feeder shaft and with one or the other end portion of said power transmitting shaft for selectively establishing and interrupting a driving connection between said power transmitting shaft and said feeder shaft.

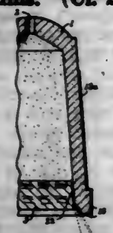
2,656,074
SALT DISPENSER
Michael D. Vivolo, New York, N. Y.
Application February 10, 1951, Serial No. 210,352
2 Claims. (Cl. 222—173)



1. A dispenser for salt or other powdered material comprising, a container having supporting feet on which it can be rested, said container having an open top at its end remote from said feet, an air bulb fitted on said top and having its outlet in direct communication with the interior of the container to direct air under pressure on top of the powdered contents of the container, the container having an inclined inner bottom surface terminating in a central conical outlet, the lower end of said conical outlet communicating with a transverse passage extending below the inclined inner bottom surface and emerging at the side of the container at a point above the supporting feet on which the container is rested, said passage being downwardly inclined near its outer end to direct a spray of the powdered ma-

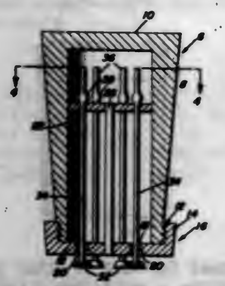
terial downwardly and out of the container when air is forced down on the powdered contents of the container by compression of the air bulb.

2,656,075
CONDIMENT DISPENSER
Earl W. Clark, Stuart, Fla.
Application March 27, 1952, Serial No. 278,825
4 Claims. (Cl. 222—190)



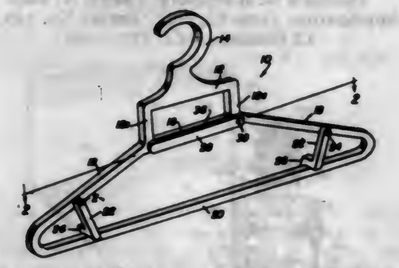
1. In combination in a dispenser for finely divided material comprising, a container body having a dispensing passage in the top portion and a filling opening in the bottom portion thereof, said container body comprising a cast and relatively fragile body of hygroscopic material with a dispensing passage formed therein, a waterproof envelope encircling and contacting the said body of hygroscopic material, a closure member comprising a resilient material for closing said filling opening by making sealing contact with said envelope, said envelope at the bottom portion of said body being positioned between said body and said closure member where said closure member makes sealing contact with said envelope, whereby said closure member does not contact and wear said hygroscopic material when being removed and replaced.

2,656,076
CONDIMENT SHAKER WITH NOVEL CLOSING CAP
John F. Von Essen, Floral Park, N. Y.
Application May 11, 1951, Serial No. 225,775
1 Claim. (Cl. 222—196.3)



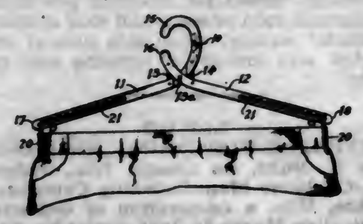
For use in conjunction with the receiver of a condiment shaker construction, a readily applicable and removable valved cap and agitator assembly comprising, in combination, a receiver closing cap having shaker openings formed with valve seats, a spider disposed in spaced parallelism relative to said cap, a single rigid rod fixed at its outer end to a central portion of said cap and fixed at its inner end to a corresponding central portion of said spider, said spider having guide openings registering with the shaker openings in said cap, a plurality of valving and agitating rods, the outer end portions of said rods passing slidably through the shaker openings and having valve heads engageable with their respective valve seats, the inner ends of said rods passing slidably through guide openings in said spider and projecting to points well beyond the adjacent surface of the spider, the portions of the rods in close proximity to said adjacent surface of the spider being provided with stop shoulders and said shoulders being engageable with said spider when the valve heads are disengaged from said valve seats.

2,656,077
GARMENT HANGER
Henry E. Genaky and Stanley D. Schroeder, Jefferson City, Mo.
Application August 11, 1952, Serial No. 303,732
4 Claims. (Cl. 223—91)



1. A garment hanger comprising an inverted U-shaped support member affording a bight portion and a pair of side pieces, an upwardly extending suspension hook provided on said bight portion, a cross piece extending between lower ends of said side pieces, a pair of downwardly divergent arms extending from lower ends of the respective side pieces, a cross bar connecting together the lower ends of said arms, and a pair of keeper bars pivoted to intermediate portions of the respective arms, said keeper bars having free end portions engageable with said cross bar for sustaining garments thereon, said keeper bars being swingable toward the bight portion for disengagement from said crossbar.

2,656,078
SKIRT HANGER
John Ambrosino, Flushing, N. Y.
Application October 29, 1951, Serial No. 253,573
2 Claims. (Cl. 223—95)



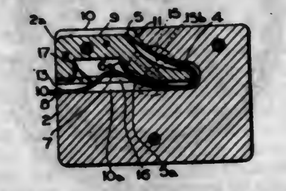
1. In a skirt hanger of the type in which two opposed skirt hanging members are provided, the combination of a pair of jacket supporting members of spring controlled scissor type with one of them having a supporting hook, the jacket supporting members being pivoted to each other at their upper ends, and a spring spreading the lower ends of said last named members away from each other, skirt hanging members having a vertical portion of substantially the same depth as the largest standard waistband, means movably engaging the outward ends of the jacket supporting members and supporting said skirt hanging members, and means fastening said last named means in fixed position to said jacket supporting members, said vertical skirt supporting members being under the same spring pressure as the ends of said jacket supporting members.

2,656,079
GARMENT HANGER
William F. Heiwig, Milwaukee, Wis.
Original application September 16, 1948, Serial No. 49,476, now Patent No. 2,542,108, dated February 27, 1951. Divided and this application February 13, 1951, Serial No. 210,740
2 Claims. (Cl. 223—96)



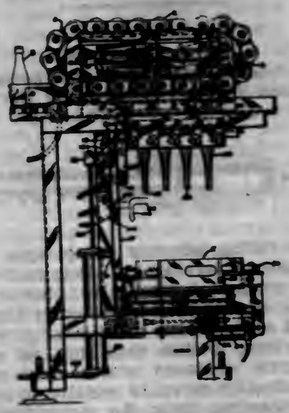
1. A trouser hanger comprising companion members pivotally connected together and having substantially flat upper portions with their opposed inner edges cut out to form small and large openings adjacent one another, opposed lugs formed on the opposed inner edges of the companion members disposed between said openings, a locking rod pivoted to opposite inner sides of the companion members and having laterally extending portions bearing against the inner edges of the upper flat portions of said members, opposed loops formed on the laterally extending portions of the locking rod and slidably disposed against one another, an expansion coil spring surrounding said loops and yieldingly retaining the laterally extending portions of the locking rod against the opposed walls of the small and large openings, a hook formed on the outer end of the locking rod, and trouser cuff gripping jaws formed on the lower portions of the companion members and yieldingly directed toward one another by said coil spring.

2,656,080
NEEDLE THREADER
Albertus Pretorius, Pretoria, Transvaal, Union of South Africa
Application January 2, 1951, Serial No. 204,119
In the Union of South Africa January 5, 1950
6 Claims. (Cl. 223—99)



1. A device for the purpose set forth comprising a resilient wire member of a form pointed at one end to enable it to be passed into the eye of the needle and bifurcated towards the other end into resiliently separated limbs and over the said pointed end of which the eye of the needle may be passed, moved along the said member and removed from the bifurcated end thereof, a body containing a recess in which said member is loosely encaged against removal, and which body is provided with a lateral aperture following the general form of said bifurcated member in communication with the recess in which said member is loosely encaged and containing means for guiding the needle eye over said member and from end to end of said aperture, the body being formed with a further aperture into the recess which further aperture is located adjacent and communicates with that region of the said recess which accommodates the bifurcated end of the resilient member and is grooved enabling the thread to be admitted into the bifurcation of said member to be gripped between the said limbs whilst the needle eye is passed thereover, and means for retaining the thread thus passed through the needle until the latter leaves or is about to leave the body.

2,656,081
CASE FILLING MACHINE
Allan C. Davis, Baltimore, Md., assignor to The Davis Caser Company, Baltimore, Md., a corporation of Maryland
Application April 18, 1951, Serial No. 221,747
20 Claims. (Cl. 226—14)

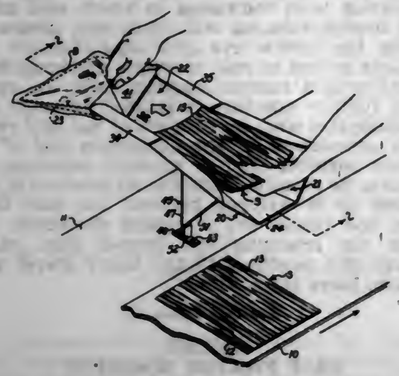


1. In an article packing machine for filling a cell case with a charge of articles, a charge depositing mechanism and means for delivering a charge to said mechanism, said mechanism comprising a carriage movable between charge receiving and charge release position, a plurality of pockets in the carriage to correspond to the cells of a case, means in each pocket to retain an article therein, said retaining means being movable between article retaining and release positions, means to effect said movement means for guiding the movement of said carriage from charge receiving to charge release position, and a piston and cylinder mounted on said carriage and connected to said effecting means to control the release of said article retaining means in releasing articles from said pockets.

2,656,082
DEVICE FOR PACKAGING FLAT FLEXIBLE ARTICLES
Robert B. Brown, Greenville, S. C.
Application October 24, 1951, Serial No. 253,939
5 Claims. (Cl. 226—18)

4. An open-top chute for packaging flexible planar articles comprising a U-shaped center section having relatively spaced substantially

parallel side walls, a U-shaped rear section connected to the center section and having side walls diverging rearwardly from the center section, a U-shaped front section connected to the center



section and having forwardly diverging side walls, said sections being in alinement, and article retaining means adjacent the upper edges of a portion of said chute.

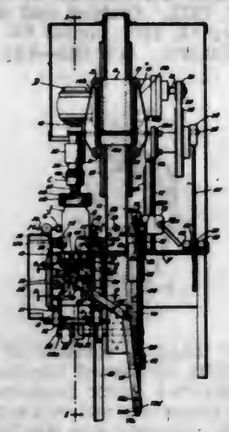
2,656,083
TIRE ADAPTER
Oscar Clarence Blomgren, Evanston, Ill.
Application May 23, 1950, Serial No. 163,610
6 Claims. (Cl. 226—20.3)



1. A tire filling adapter comprising an elongated housing having a longitudinal bore adapted to enclose a tire valve, means for connecting one end of said housing in liquid-tight engagement with a tire valve casing when said valve is enclosed within said bore, an elongated plunger partly enclosed within and rotatingly and longitudinally movable relative to said housing and projecting from the remaining end of said housing, and means forming a liquid-tight seal between said remaining end of said housing and said plunger while permitting rotation and longitudinal movement of the latter, said plunger being constructed at its enclosed end to grip a valve for rotation of the latter and having a longitudinal bore from its projecting end to a portion enclosed within said housing, said plunger and said housing being constructed to provide a liquid passageway within said housing from said plunger bore to said enclosed end of said plunger, and the said projecting end of said plunger being adapted for connection to a source of liquid.

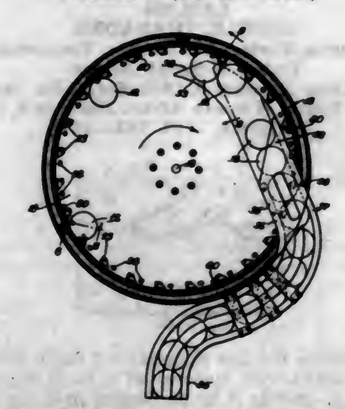
2,656,084
JAR-HANDLING EQUIPMENT FOR CAPPING MACHINES
Arthur H. Filander, Baltimore, Md., assignor to Franklin Balmar Corporation, Baltimore, Md., a corporation of Maryland
Application January 2, 1952, Serial No. 264,495
1 Claim. (Cl. 226—88)

In a capping machine for setting loosely-applied caps of screw-type jars: a capping unit; a conveyor for feeding jars to a capping station relative to said capping unit; a carriage on which said capping unit is mounted; a support for mounting said carriage for up and down reciprocation to bring said capping unit into and out of engagement with a jar cap; clamping means for holding a jar on which the cap is to be set against rotation while said cap is being set; a motor mounted on said carriage; and driving connections between said motor and the carriage, the capping unit, the conveyor and the clamping means, said driving connections including a rotating crank and a pivotally an-



chored adjustable rod connected to said crank whereby up and down reciprocatory movement is imparted to the carriage, a drive rod secured to the carriage, a bracket adjustably secured on said drive rod, linkage and leverage connected between said bracket and the conveyor to impart reciprocatory movement of the drive rod to the conveyor, and linkage and leverage connected between said bracket and the clamping means to impart reciprocatory movement of the drive rod to the clamping means.

2,656,085
ARTICLE FEEDING MECHANISM
Joseph M. Schmied, Chicago, Ill., assignor to White Cap Company, Chicago, Ill., a corporation of Delaware
Application August 20, 1947, Serial No. 769,624
7 Claims. (Cl. 226—88.1)



1. A mechanism for feeding articles one at a time in predetermined position from a jumbled supply of the articles, comprising an angularly disposed drum-like container in which a number of the articles are adapted to be placed, a similarly

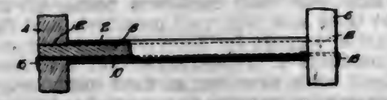
disposed rotatable disk in the bottom of the container against which the articles are adapted to bear, means for rotating the disk, pick-up studs projecting from the surface of the disk adjacent the periphery thereof at circumferentially spaced intervals for hooking under only those of the articles which happen to assume the desired position, elevating bosses projecting from the disk in advance of the studs at circumferentially spaced intervals for raising the articles into positions where they may drop back into hooked engagement with the studs, a transfer blade in the container adjacent the surface of the disk for receiving from the studs those of the articles which have become hooked thereon, and a delivery chute in the container connected with the transfer blade for receiving the articles from the latter and feeding them one at a time from the container.

2,656,086
METHOD OF INSERTING STOPPERS INTO BOTTLES
Thomas A. Haynes, Wyandotte, Mich., assignor to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan
Application April 11, 1950, Serial No. 155,279
5 Claims. (Cl. 226—91)



1. In a method of distorting a resilient stopper having a flat top and a hollow cylindrical shank integral therewith for insertion into a bottle neck, the steps comprising: creating a partial vacuum in a zone immediately adjacently above and coaxial with the flat top of the stopper; preventing movement of the peripheral rim of the stopper top toward said zone while effecting movement of the center of said top partly into said zone, thereby effecting a reduction in the diameter of said shank; maintaining said partial vacuum while inserting said stopper into said bottle neck and subsequently releasing said partial vacuum.

2,656,087
LADDER CONSTRUCTION
William Sharrock, Beverly, Mass.
Application April 4, 1952, Serial No. 280,543
2 Claims. (Cl. 228—57)



1. In a ladder, the combination of opposed side rails provided with transversely disposed substantially aligned openings, a rung, said rung comprising an outer sheath disposed between said side rails with its ends abutting the inner faces of the rails, an elongated member insertable into assembled relation with said side rails through at least one of said openings and said outer sheath and having laterally extending flanges at the ends thereof having shouldered engagement with said side rails at the outside face to hold the same in proper spaced aligned relation and holding said member against rotation relative thereto, and a core having an elongated groove insertable into assembled relation with said side rails through at least one of said openings and said outer sheath when said groove is aligned with said elongated member, the ends of the core extending into the openings in both rails.

2,656,088
STEPLADDER HAVING SAFETY SUPPORTING BAR
Ara L. White, Edgewood, R. I., assignor of one-half to Thomas A. Glavin, Edgewood, R. I.
Application June 11, 1949, Serial No. 98,444
6 Claims. (Cl. 228—67)

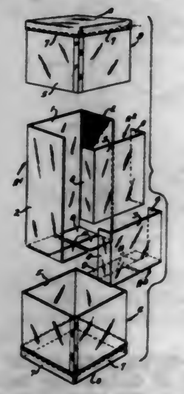


6. In a knock-down step-ladder having a top platform, a pair of outwardly flaring front legs projecting downwardly and obliquely outwardly from the front end of said platform, having horizontal steps mounted at vertically spaced intervals thereon, and a set of substantially similar outwardly flaring rear legs joined together and mounted on the rear end of said platform, one of said sets of legs being pivotal from a closed position substantially abutting said other set of legs to an open position supporting said steps and platform in substantially horizontal planes, guide means projecting horizontally laterally from each side of said platform, a U-shaped supporting bar of a width slightly greater than said platform, having extended downwardly projecting U legs extending downwardly through said respective guide means, cylindrical guide means for containing a bar leg for each side of said ladder and means to move and pivot said cylindrical guide means to a position such that when the ladder is open said U bar when raised may move to an oblique position with its base slightly in rear of said platform to function as a support for the ladder user and to a closed position such that said cylindrical guide means may move to a position permitting the U bar legs thereof to extend vertically between the substantially abutting front and rear ladder legs interior of the lower portions of the outwardly flaring walls thereof.

2,656,089
MASTER SHIPPING CONTAINER
Clifford D. Fallert, St. Louis County, and Walter C. George, St. Louis, Mo., assignors to Gaylord Container Corporation, St. Louis, Mo., a corporation of Maryland
Application September 23, 1949, Serial No. 117,418
6 Claims. (Cl. 229—14)

1. A shipping container comprising a relatively tall upright tubular liner having front, rear and side walls and slip covers telescoping over the upper and lower ends of said liner in abutting relation, said liner comprising a rear section and separate upper and lower front sections, said rear section comprising a rear panel forming the entire rear wall of said liner and side panels extending from top to bottom of said liner and forming portions only of the width of the side walls there-

of, said upper and lower front sections comprising front panels that form the entire front wall of said liner and foldably connected side panels that form with said side panels of said rear section the entire side walls of said liner, the vertical side edges of said foldably connected side panels being in conterminous abutting relation with the vertical side edges of said side panels of said rear section of said liner, said lower front



section terminating below the upper edge of said lower slip cover, said upper front section extending downwardly into said lower cover and seating on the upper edge of the lower front section therein and extending upwardly into said upper cover, said upper front section being adapted, when the upper cover is removed from the liner, to be entirely removed to provide an access opening in said liner below the upper edge of said lower cover.

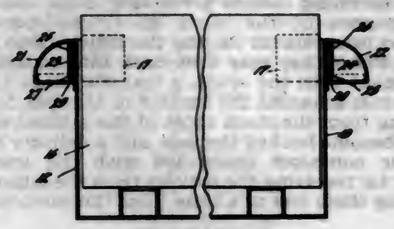
2,656,090
NONSPILL POWDER CONTAINER
Marcia C. Hamblet, New York, N. Y.
Application September 10, 1947, Serial No. 773,273
4 Claims. (Cl. 229—14)



1. A powder container comprising a box, of circular cross-section, a cover telescoping over the top of said box, the fit being loose enough to permit removal of the cover without distorting the box, a resilient pad mounted on the undersurface of said cover, the central portion of the bottom of said pad being in the form of a convex curve of revolution, a sponge rubber lining on the interior walls of said box, and a tubular retainer supporting the inner surface of the sponge rubber lining, said lining engaging the bottom of the rim of said pad when said cover is closed.

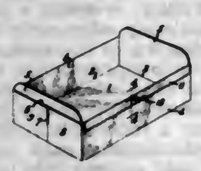
2,656,091
CARD INDEX DEVICE
Nicolaüs Per Mathiesen, Drammen, Norway
Application March 6, 1951, Serial No. 214,091
6 Claims. (Cl. 129—16)

1. Card index device comprising a tray having a bottom, side walls, and end walls, and a plurality of cards disposed therein in face to face relation and generally upright position, each said card having a magnetic portion adjacent each side edge thereof, said magnetic portions of successive cards being in horizontal alignment adjacent said side walls, magnets movably associated with said tray and extending longitudinally thereof adjacent said side walls and each



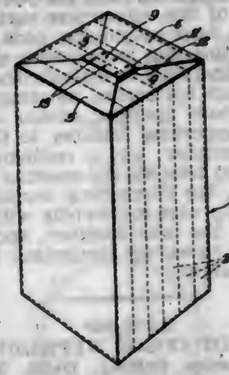
forming part of a magnetic circuit including one of said lines of magnetic card portions, and means for simultaneously moving said magnets transversely to their length to an extent sufficient to selectively include or exclude the said magnetic card portions from the effective fields of said magnets.

2,656,092
CARTON CONSTRUCTION
Ransom C. Ellsworth, Rittman, Ohio, assignor to The Ohio Boxboard Company, Rittman, Ohio, a corporation of Ohio
Application April 25, 1950, Serial No. 157,969
1 Claim. (Cl. 229—35)



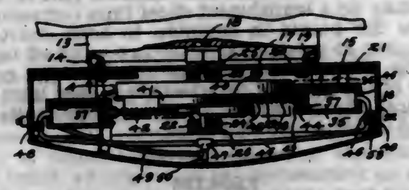
A blank for a carton of open-top tray form for the packaging particularly of products of an inherently oily or greasy nature especially bakery products, comprising a foldable sheet of paperboard material cut and scored to define a bottom, side and end wall members foldable to erected condition substantially normal to said bottom and said end wall members being of greater height than said side wall members, and flaps at the carton corners for securing said side and end wall members in erected condition, said side wall members being provided at their outer longitudinal edges with integral flanges defined therefrom by folding scores and substantially coextensive therewith, and said blank being provided throughout its inner surface including said flange with a lining of grease and oil repellant material, said flanges being disposed by virtue of their folding scores against and permanently juxtaposed with the outer surfaces of the side wall members in direct face-to-face contact therewith throughout their length, whereby in the erected carton the repellant lining of the blank extends with said flanges over the folded upper edges of the side wall members at said folding scores and provides therefor a surface serving to prevent wicking of grease or oil from the carton contents into said side wall members, and the upper edges of the end wall members extend above the upper edges of the side wall members and out of the zone of wicking contact with said contents.

2,656,093
MEANS FOR CLOSING BAGS
Gerald R. Smith, Wabash, Ind., assignor to American Rock Wool Corp., Chicago, Ill., a corporation
Application July 28, 1949, Serial No. 107,240
1 Claim. (Cl. 229—54)



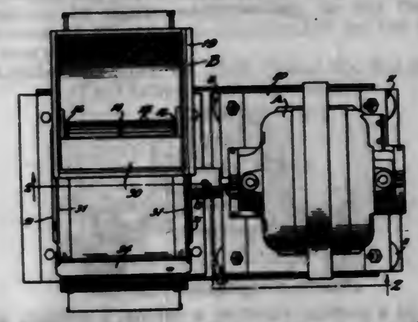
A bag formed of substantially flexible material adapted for packaging, shipping and storing batts of thermal insulation, said bag when distended being substantially rectangular in cross section, and consisting of four side walls folded at their lower ends to form a bottom closure, the upper ends of two oppositely disposed side walls being folded inwardly to cover the packaged batts, the upper ends of the other two oppositely disposed side walls forming approximately triangular flaps positioned with their reduced ends disposed in overlapping relation, a closure member of relatively heavy fibrous material comprising an elongated rectangular strip folded intermediate its ends to form a substantially U-shaped element having one leg thereof disposed beneath and the other leg disposed over the overlapping ends of the triangular flaps, with the ends of said closure member providing straight gripping edges extending from one side of one of said triangular flaps to the adjacent side of the other triangular flap and said edges located at points spaced outward from the overlapping ends of said triangular flaps, and attaching means extending through both legs of said closure member and through said triangular flaps for rigidly securing said member to said flaps to thereby close the bag and provide a carrying handle.

2,656,094
TIRE PRESSURE DEVICE
Comer C. Pierce, Jacksonville, Fla.
Application July 9, 1951, Serial No. 235,855
5 Claims. (Cl. 230—34)



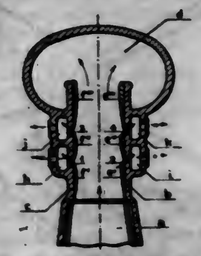
1. In combination with a vehicle wheel and a tire on said wheel, a tire pressure maintaining means mounted on said vehicle wheel and connected with said tire, said means comprising a housing, means for mounting said housing on the hub of said wheel, a shaft disposed in said housing concentric with said wheel, a pair of diametrically opposed pumping members in said housing, a flywheel rotatable on said shaft, a pair of oppositely disposed cam members fixed to said flywheel, means extending from said pumping members engaging said cam members, a tubular connection between said pumping members and said tire, and a check valve in said connection adjacent each pumping member, whereby upon stoppage of said wheel continued rotation of said flywheel operates said pumping means.

2,656,095
BLOWER STRUCTURE
Shirley P. Campbell, Wichita, Kans., assignor to The Coleman Company, Inc., Wichita, Kans., a corporation of Kansas
Application April 23, 1948, Serial No. 22,843
4 Claims. (Cl. 230—114)



1. In a blower structure, a vane-equipped impeller mounted for rotation, a generally cylindrical casing providing an annular chamber about said impeller enlarging toward an outlet with which it is provided and having also an inlet leading into the interior of the impeller, an arcuate track extending into said chamber adjacent the outlet, arcuate arms supported by said track, a cut-off block carried by said arms, and means associated with said arms and extending out of said casing chamber for moving said arms transversely of said chamber, said arcuate arms being provided with a portion equipped with notches and an adjustable latch for engaging said notches.

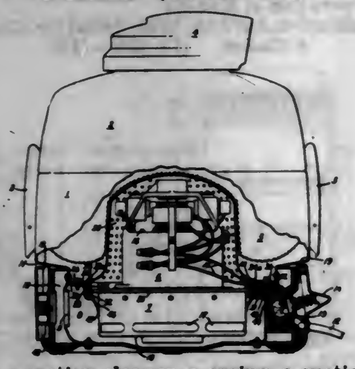
2,656,096
CENTRIFUGAL PUMP AND COMPRESSOR
Marcel G. Schwarz, Paris, France, assignor to Societe Rateau (Societe Anonyme), Paris, France, a company of France
Application December 27, 1946, Serial No. 718,798
In France January 4, 1946
5 Claims. (Cl. 230—116)



1. A centrifugal machine of the type disclosed, comprising an impeller, a diffuser at the discharge end of said impeller, including two opposed substantially planar walls, slot-like passages through

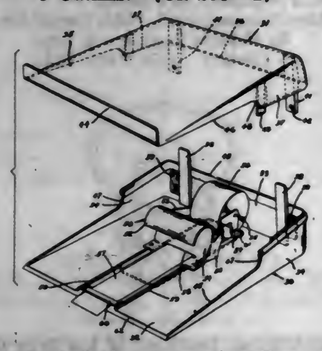
both of said opposed walls, the passages through one of said walls being in register with corresponding passages through the other of said walls, connecting means between corresponding passages, piping means between said connecting means and a zone upstream of said discharge end, and means for adjusting the cross-section of said piping means.

2,656,097
MOTOR MOUNT AND SEAL FOR SUCTION CLEANERS
Robert E. Sheahan, Chagrin Falls, Ohio, assignor to General Electric Company, a corporation of New York
Application February 13, 1952, Serial No. 271,380
5 Claims. (Cl. 230—117)



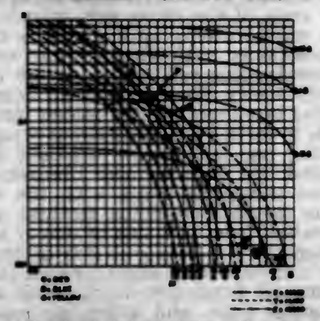
1. In a suction cleaner, a casing, a suction unit therein, air inlet and outlet ends on the unit, a mount and seal for said unit comprising an annular wall extending inwardly from said casing, a stepped seat in said wall, a resilient annular gasket fitted in said seat, means sealing said gasket against said seat, spaced lugs on said gasket extending inwardly toward the open center thereof, a mounting flange on said suction unit intermediate its ends, means supporting said mounting flange in said gasket lugs, and a web on said gasket surrounding said suction unit and extending inwardly toward and sealing against said unit between its inlet and outlet ends.

2,656,098
SUPPORT FOR COMPUTING MACHINES AND THE LIKE
James L. Hutton, Greensboro, N. C.
Application February 2, 1949, Serial No. 74,107
5 Claims. (Cl. 235—1)



1. A support device for computing machines comprising a base member formed at its rear and side portions with upwardly extending wall elements, a supporting surface formed with rear and side downwardly extending wall elements registrable with the upwardly extending wall elements, a plurality of upwardly extending lugs carried by the rear wall element of the base member at its inner surface, cushioning pads carried by said inner surface adjacent said lugs, downwardly extending lugs carried by the rear wall element of the supporting surface and engageable with said cushioning pads, said downwardly projecting lugs interlocking with said upwardly extending lugs to restrain the supporting surface against horizontal movement with respect to the base member, means securing the lugs of the supporting member to the rear wall of the base member, and a resilient cushioning strip interposed between the meeting edges of the wall elements, the supporting surface being inclined upwardly and rearwardly with respect to the bottom of the base member, and being provided with an upwardly projecting lip adjacent its forward margin.

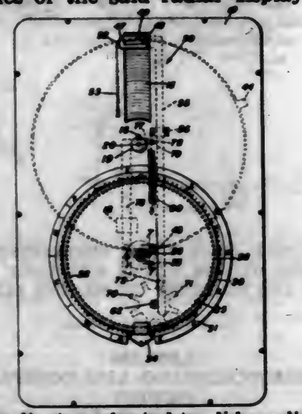
2,656,099
METHOD OF COLOR REPRODUCTION
Hendrik Johannes Selling, Delft, Netherlands, assignor to De Nederlandsche Organisatie Voor Toegepast - Natuur - Wetenschappelijk Onderzoek Ten Behoeve Van Nijverheid, Handel en Verkeer, The Hague, Netherlands, a corporation of the Netherlands
Application February 3, 1950, Serial No. 142,181
In the Netherlands February 4, 1949
4 Claims. (Cl. 235—61)



1. A method of determining the proportions of at the most three additively primarily reacting color dye stuffs required to reproduce a given color from three groups of translucent charts, all made to the same scale, each chart showing a series of constant concentration curves for one dye with respect to the concentrations of said other two dyes, for different preselected X, Y and Z stimuli of the eye, comprising: selecting the charts corresponding closest to the X, Y and Z stimuli of the color to be reproduced, superposing different pairs of said three selected charts, constructing on a translucent sheet lines corresponding to the points in common to both charts of each pair to produce at least two pairs of intersecting lines, whereby the coordinates and curve value of the point of intersection of said lines determines the concentration of said dye stuffs required to reproduce said color.

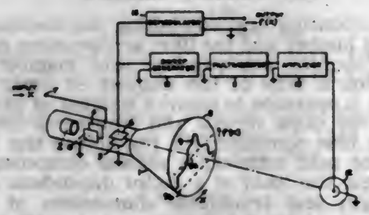
2,656,100
AVERAGE COMPUTING DEVICE
Clyde S. Mundell, Carmichaels, Pa.
Application August 14, 1950, Serial No. 179,280
7 Claims. (Cl. 235—61)

1. An average computing device comprising a dialing disk provided with holes for the insertion of a stylus, the values to be averaged being set by moving the stylus inserted into a hole of the dialing disk from a selected position into a predetermined end position, a gear wheel connected with said dialing disk, an average indicator disk provided with concentric annular zones containing average value scales and provided with gear teeth engaging the gear wheel of the dialing disk, a front plate with a radial display window for displaying a radial section of said average indicator disk, a radial scale along one of the sides of the said radial display window,



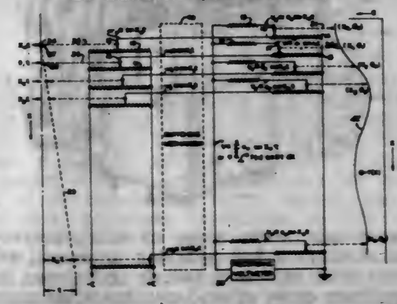
a sliding indicator adapted to slide radially along said average indicator disk in said display window, said indicator having a head provided with a slot encompassing a section of one of said annular zones, and with a mark for indicating a specific value within the said section, and stylus operated means for advancing said indicator head radially one step upon each angular movement of the dialing disk, said means being operated by the projecting end of the stylus inserted into a hole of the dialing disk when the latter is moved into its predetermined end position.

2,656,101
ARBITRARY FUNCTION GENERATOR
Robert P. Haviland, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application April 26, 1951, Serial No. 223,105
1 Claim. (Cl. 235—61)



An arbitrary function generator for use in computing devices comprising a cathode ray tube, an electron gun in said cathode ray tube for supplying an electron beam, a luminescent screen in said cathode ray tube for producing light in response to the impact of electrons in said beam, an opaque curve representing an arbitrary function drawn on the outer face of said screen with horizontal abecissae and vertical ordinates, horizontal and vertical deflection plates in said cathode ray tube, said horizontal deflection plates being supplied with an input voltage signal representing a variable, a photoelectric cell for receiving light from said screen, a multivibrator controlled by said photoelectric cell, a sweep generator controlled by said multivibrator for producing a sawtooth voltage output to be applied to said vertical deflection plates, the maximum vertical deflections of said beam being limited to the height of said curve by voltage pulses produced across said photoelectric cell when said light is eclipsed by said curve, said voltage pulses triggering said multivibrator to cause said sweep generator to begin a new output cycle, and a filtering circuit to produce a voltage envelope of said sawtooth voltage output, said voltage envelope representing the same arbitrary function of said variable as the arbitrary function represented by said curve.

2,656,102
COMPUTING MACHINE
Raymond M. Redheffer, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application April 18, 1946, Serial No. 662,983
15 Claims. (Cl. 235—61)

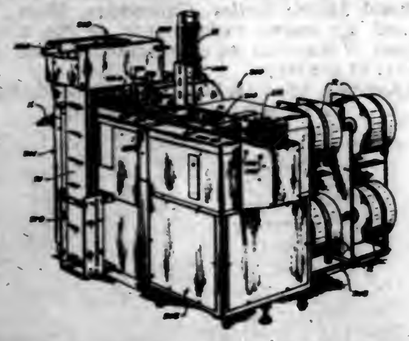


1. Apparatus for evaluating the summation of the products of a plurality of terms comprising, a source of potential, a plurality of potentiometers energized from said source of potential, the voltage on the movable contact of each of said potentiometers being proportional to the cosine of the displacement of said movable contact from an end of said potentiometer, a second plurality of potentiometers, the voltage on the movable contact of each of said second plurality of potentiometers being proportional to the displacement of said movable contact from an end of said potentiometer, each of said first plurality of potentiometers being connected to a corresponding potentiometer of said second plurality of potentiometers, whereby the voltage on the movable contact of each of said potentiometers of said second plurality is proportional to the product of the sine of said displacement of said first potentiometer and the displacement of said second potentiometer, said movable contacts of said second plurality of potentiometers being connected together through equal value isolating resistors, thereby providing a resultant voltage proportional to the sum of the voltages on said movable contacts of said second plurality, and means for indicating said resultant voltage.

2,656,103
PRINTING MACHINE
Franklin E. Curtis, Willoughby, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del., a corporation of Delaware
Application February 24, 1949, Serial No. 78,285
34 Claims. (Cl. 235—61.9)

24. In a printing machine wherein individual sheets having changeable data and numerical

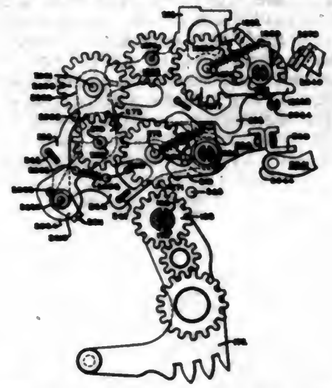
data are to be produced in coordinated relation with proof sheets bearing identical data and totals of the numerical data at selected intervals, means including a proofing station and a numerical data printing station for effecting the requisite printing operations, variable printers at said station, one of said printers including an accumulator, a lister for guiding a web past said proofing station and including web feed means operable selectively through full-space or half-space line feed movements, space counting means in said lister operated by said web feed means, a cut-off knife in said lister controlled by said line counting means for severing said web into sheets, a multiple order counter operable to advance one unit for each sheet produced, a first switch governed by a lower order of said counter to suppress printing at said stations and cause idle full-space line feed movement of said web



whenever said lower order of said counter has moved through a full notation, a second switch in series with said first switch and closed by an intermediate order of said counter when such intermediate order has moved through a full notation so as to be closed concurrently with said first switch, means energized when said second switch is closed to cause total taking operation of said accumulator, a third switch means in series with said second and first switch means and closed by a higher order of said counter when said higher order has moved through a full notation so that said third switch is in such an instance closed concurrently with said first and second switches, means energized through said third switch and said second and first switches in series to cause half-space line feed movement of said web, and adjusting means for said space counting means for coordinating the same with the controlling operations of said counter.

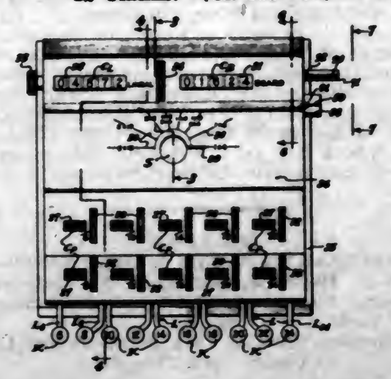
2,656,104
DUPLEX REGISTER CALCULATING MACHINE
Grant C. Ellerbeck, San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application January 30, 1950, Serial No. 141,223
12 Claims. (Cl. 235—79)

1. In a calculating machine having accumulator wheels, a driving gear for each of said accumulator wheels, actuators for said driving gears, means for engaging said driving gears and said actuators preliminary to digitation and for disengaging the same subsequent thereto, counter wheels, a driving gear for each of said counter wheels, and an actuator for said counter wheel driving gears: the combination which comprises interposable gears engaging said accumulator wheel driving gears and normally disengaged from said counter wheel driving gears, means for rendering said counter actuator inoperative to move said counter wheels, and a manually operated control means operative to position said interposable gears so they engage said counter



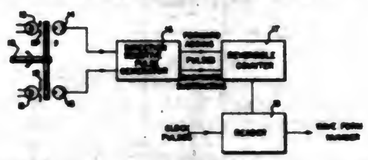
wheel driving gears upon engagement of said accumulator driving wheels with their respective actuators and to render inoperative said counter actuator.

2,656,105
LUMBER COUNTING AND COMPUTING DEVICE
Thomas S. Terrill, Redding, Calif.
Application October 28, 1949, Serial No. 124,030
12 Claims. (Cl. 235—82)



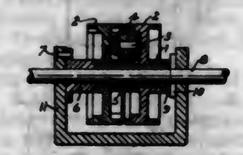
1. In counting and computing mechanism for pieces of lumber and the like: an operating member; a counter actuated by said member for registering a tally of the number of times said member is operated to count a number of articles having the same length and transverse dimensions; a first computer for registering the total length of said articles; a second computer for registering the total of a factor dependent upon the length and transverse dimensions of said articles; means actuated by said member for operating said first computer to register a predetermined increment of length upon each operation of said member; additional means including adjustable transmission means, actuated by said member for operating said second computer to register a predetermined increment of said factor upon each operation of said member; and selective control means for adjusting said adjustable transmission means to vary the predetermined increment of said factor registered by said second computer upon each operation of said member and thereby adapt the mechanism to count another group of articles of different transverse dimensions and to register the total length and the total of said factor for such other group of articles.

2,656,106
SHAFT POSITION INDICATOR HAVING REVERSIBLE COUNTING MEANS
Howard P. Stabler, Williamstown, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application November 18, 1946, Serial No. 710,484
15 Claims. (Cl. 235—92)



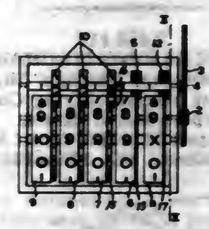
3. Apparatus for indicating the direction of rotation of a shaft comprising, a slotted disc mounted on said shaft, first and second light sources disposed on one side of said disc, first and second light sensitive tubes similarly disposed on the other side of said disc, an electrically energized counter and control circuit therefor including a direction sensitive pulse generator comprising a pulse forming multivibrator, a gate multivibrator, and first and second amplifier tubes, said pulse forming multivibrator being directly connected to the plate of said first light sensitive tube, and said gate forming multivibrator being directly connected to the plate of said second light sensitive tube, the output of said pulse forming multivibrator being electrically coupled to each of said first and second amplifier tubes, the output of said gate multivibrator being coupled to bias both of said first and second amplifier tubes, whereby the output of said first amplifier tube is a positive pulse when said first light sensitive tube is in transition between illuminated to non-illuminated and the output of said second amplifier tube is a positive pulse when said first light sensitive tube is in transition between non-illuminated and illuminated, there being no output from either of said amplifier tubes when said second light sensitive tube is illuminated.

2,656,107
COUNTING DEVICE
Bruno Vogler, Berlin-Charlottenburg, Germany, assignor to Loewe & Co. A. G., Berlin, Germany, a German company
Application November 14, 1950, Serial No. 195,596
In Germany November 28, 1949
6 Claims. (Cl. 235—96)



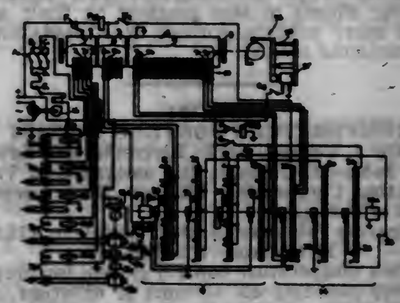
2. A counting device with internal gearing of the figure wheels comprising, in combination, a driving shaft, pinion holders rotatably supported on said shaft and each comprising a bearing for a figure wheel, figure wheels rotatably supported on said bearing portions of said pinion holders, pinions carried by said pinion holders and operatively engaging said figure wheels and teeth provided in the opposite ends of said pinion holders and adapted to couple them so as to prevent an angular displacement relatively to each other but allowing—if disengaged—an angular adjustment.

2,656,108
REGISTER HAVING A CHECK WHEEL CONNECTED FOR OPERATION THEREBY
Cornelis A. S. Hamelink, Amsterdam, Netherlands, assignor to Theodorus Reumerman, Zandvoort, and Willem Hendrik Theodorus Helmig, Leiden, Netherlands
Application May 4, 1951, Serial No. 224,585
In the Netherlands January 5, 1951
2 Claims. (Cl. 235—117)



1. A register for measuring instruments and counting devices, comprising a plurality of figure wheels each for one of the decimal positions of the numbers to be displayed by the register, driving means for moving the figure wheel for the lowest decimal position, means for moving each of the remaining figure wheels one step after each complete revolution of the figure wheel for the next lower decimal position, so that the register displays a series of consecutive numbers, a checking wheel displaying an appropriate check symbol for each number displayed by the register, and means for moving said checking wheel in unison with the figure wheel for the lowest decimal position in such manner that one step of said checking wheel corresponds with one step of said last-mentioned figure wheel, a step being equal to one Nth of the circumference for the checking wheel and for the figure wheel for the highest decimal position, and to one tenth of the circumference for all other figure wheels, N being a prime number greater than 10.

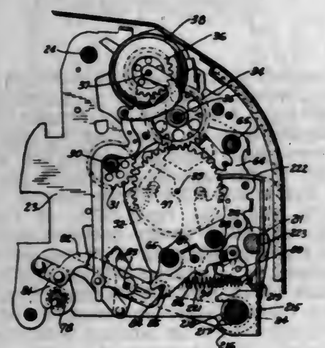
2,656,109
AUTOMATIC OPERATION CONTROLLER HAVING PREDETERMINING MEANS
Herman Lindars, Sheffield, England
Application December 15, 1949, Serial No. 133,203
In Great Britain December 17, 1948
9 Claims. (Cl. 235—132)



1. Automatic event control apparatus comprising an impulse generator for generating im-

pulses representing duration of an event, a step-by-step selector switch adapted to be energised by said generator, a chart having groups of markings, one group representing events and another group representing durations of an event, exploring means co-operating with the events group of markings to initiate an event and to connect said generator to the selector switch driving mechanism, further exploring means to cooperate with the duration group of markings, an operative connection between the said further exploring means and a selected contact of the selector switch representing the desired duration of the selected event, and means included in the said operative connection for terminating the selected event and for initiating another event.

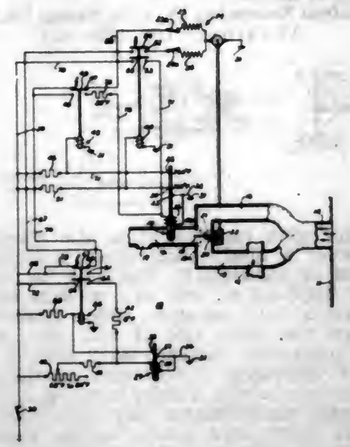
2,656,110
SPLIT CLEARING MECHANISM
Frederick A. Niemann, Chicago, Ill., assignor to Felt & Tarrant Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application April 30, 1947, Serial No. 744,984
8 Claims. (Cl. 235—144)



1. In a calculating machine having a multi-denominational order accumulator with a numeral wheel, a carrying gear and a carry winding spring in each order, an actuator for said accumulator including an actuating gear normally engaged with each said carrying gear, and zeroizing means selectively operable to detrain said carrying and actuating gears to permit said carrying winding springs to return all of said numeral wheels to zero position to clear said accumulator; a selectively operable control member, and normally inoperative detent mechanism mounted in certain of the orders of said accumulator and movable into operative position in response to operation of said control member to cooperate with said carrying gears in said certain orders to prevent return of their associated numeral wheels to zero position by their associated carry winding springs upon operation of said zeroizing means.

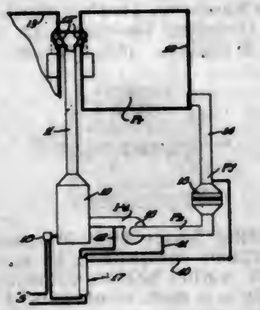
2,656,111
TEMPERATURE CONTROL SYSTEM
Timothy J. Lehane, North Riverside, and Edward W. Johnson, Chicago, Ill., assignors to Vapor Heating Corporation, Chicago, Ill., a corporation of Delaware
Application February 18, 1952, Serial No. 272,228
10 Claims. (Cl. 236—9)

1. In a temperature control system for proportionately blending air streams of different temperatures delivered to a distribution duct for subsequent delivery to an enclosure, a proportioning valve movable in opposite directions to restrict the flow of air issuing from one of said streams and enhance the flow of air issuing from the other stream and vice versa, a reversible electric motor for moving said valve, a circuit for operating the motor in one direction, a circuit for operating the motor in the opposite direction, a thermostat responsive to the temperature of air in said duct, a thermostat responsive to the temperature of air in said enclosure, a pair of normally open relay-operated contacts in one of



said circuits, a normally energized relay magnet subject to de-energization when the said duct thermostat attains a predetermined temperature for closing said contacts when the relay magnet is energized, a second pair of normally open relay-operated contacts in series with said first contacts in the circuit, and a normally energized relay magnet subject to de-energization when the said enclosure thermostat attains a predetermined temperature for closing said second pair of contacts when the latter magnet is energized.

2,656,112
AUTOMATIC CONDITIONED AIR SYSTEM WITH COMPENSATION FOR CLOGGING FILTER
Bruce G. Copping, Atlanta, Ga., assignor to Don Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application July 7, 1949, Serial No. 103,376
3 Claims. (Cl. 236—11)



1. In a temperature conditioning system for an enclosure and including a blower having an inlet and an outlet, means coupling said inlet to the enclosure including a filter and means coupling said outlet to the enclosure including a temperature conditioner and damper means responsive to temperature within the enclosure, means controlling said temperature conditioner comprising means responsive to the gauge pressure at the blower outlet and causing operation of said temperature conditioner when said gauge pressure drops below an adjustable value, and means responsive to the differential in pressure across the filter for reducing said adjustable value as said differential in pressure increases, thereby to act in a compensating direction for variation in the resistance of the filter.

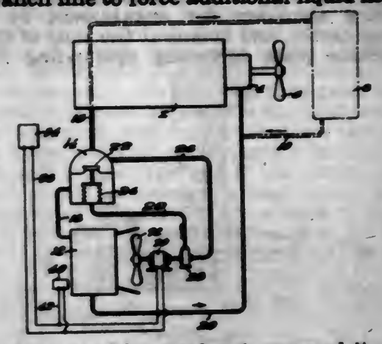
2,656,113
THERMOSTATIC VALVE
Harold B. Drapeau, Oak Park, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois
Application August 24, 1950, Serial No. 181,251
2 Claims. (Cl. 236—34)



1. In a thermostatic valve of the type having a butterfly valve pivotally supported by a housing having a port opening to be controlled and receiving said valve, the improvement of a housing having a seating portion, a thermostatic control device having a casing pivotally rockable on said seating portion and a member movable in and out of said casing in response to temperature variations, a pivotal driving connection between said movable member and said butterfly valve to angularly position said valve in said port opening thermostatically, and a coiled control spring bottomed against said housing and surrounding said casing of said thermostatic control device and arranged to impart a bias to said driving connection, thereby to urge said valve in one direction and to seat said thermostatic control device, said drive connection being constructed to jackknife to one side of the pivot of the valve between the convolutions of said spring upon said thermostatic control device being subjected to excessive temperature.

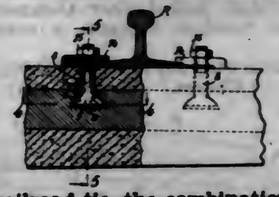
2,656,114
SYSTEM FOR CONTROLLING FLOW OF CIRCULATING LIQUID
John E. Woods, Cohasset, Mass., assignor to Standard-Thomson Corporation, Boston, Mass., a corporation of Delaware
Application August 9, 1950, Serial No. 178,457
2 Claims. (Cl. 237—8)

1. A control for a circulating-liquid system comprising a valve body in the system having an inlet and an outlet, a valve member in the body, a closed expansible member in the valve body at the outlet side of the valve member, an operating connection between the expansible member and the valve member, a branch line leading from the inlet side of the valve member to the interior of the expansible member to maintain said expansible member filled with circulating-liquid medium, the valve member being thereby subjected to substantially balanced pressure, and a pump in the branch line to force additional liquid medium



into the expansible member to expand it and to operate the valve member.

2,656,115
RAILWAY SLEEPER OF REINFORCED CONCRETE WITH RAIL FASTENING BOLTS
Roger Sonneville, Paris, France
Application February 25, 1950, Serial No. 146,246
In France April 1, 1949
3 Claims. (Cl. 238—117)

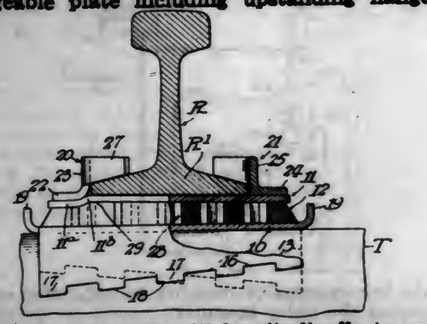


1. In a railroad tie, the combination of a concrete sleeper, a main longitudinal metallic reinforcement embedded in said sleeper and consisting of a steel structural beam having a vertical web, and rail fastening bolts each consisting of a rectangular dove tail head hooked in said web and a shank portion extending through said sleeper above the upper surface thereof of the web, said web being provided with recesses, each of a dove tail shape adapted to receive the head of one of said bolts and a vertical notch for the shank portion thereof extending from said dove tail housing to said sleeper, said latter having vertical passages of rectangular cross section corresponding to the size of said bolt heads, each disposed above one of said recesses with its length arranged transversely to said beam and opening into the upper surface of said sleeper and into said notch, and cavities, one on each side of each recess, opening into the dove tail recesses and adapted to allow of a rotation by 90° of the dove tail head of said bolts, the walls of said cavities being arranged as stops for said bolt heads at the end of said rotation.

2,656,116
RAIL AND TIE FASTENING ASSEMBLY
Harry W. Protseller, Fairmont, Minn., assignor, by direct and mesne assignments, to Arthur Wm. Nelson, Park Ridge, Ill.
Application April 8, 1947, Serial No. 740,123
4 Claims. (Cl. 238—283)

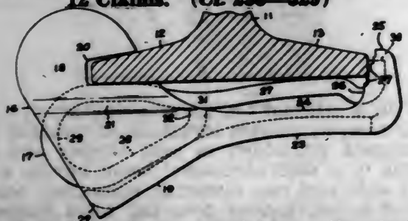
1. A rail and tie fastening embodying therein a tie engageable plate, a rail engageable plate, a pad of resilient material disposed between and united thereto, the tie engageable plate having parts at each side thereof that include lugs for entering the associated side of the tie for secur-

ing the plates thereto, means at the ends of said tie engageable plate for stiffening the same and providing shoulders for engagement by track gauging device, and means at the ends of the rail engageable plate including upstanding flange-



like portions that are slit longitudinally to provide parts that are bendable inwardly about a vertical axis to have a hold-down engagement with the top surface of the base of the rail on said plate.

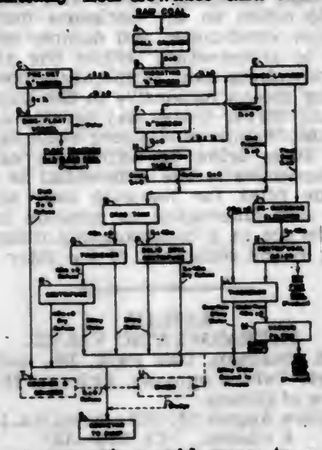
2,656,117
RAIL ANCHOR
Charles Hayes Marvin, Lancaster, Calif., assignor to The Stead Rail Ancher Company Limited, Montreal, Quebec, Canada, a corporation of Canada
Application July 17, 1950, Serial No. 174,334
12 Claims. (Cl. 238—329)



12. A rail anchor comprising a tie abutting member jawed for gripping engagement with the upper and lower surfaces of one flange of a rail base and an integral under-rail extension from said member terminating in an upwardly extending hook formed to engage the edge of the other rail base flange to maintain the jawed portion in gripping engagement with a rail; said hook having a rail base engaging surface which will be, when the anchor is in operative position on a rail, inclined from bottom to top outwardly of the rail base; said extension being, in the applied state of the anchor, downwardly flexed and thereby tensioned and exerting upward thrust of its hooked end tending to tighten the grip of the anchor.

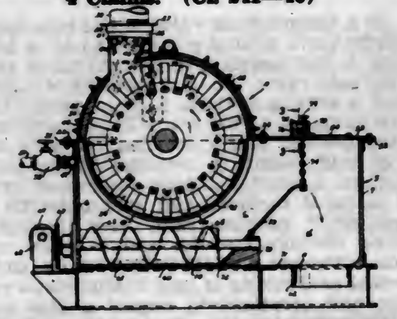
2,656,118
DISPOSAL OF SLIME-BEARING WATER
Roman Chelminski, Wilton, Conn., assignor to Knowles Associates, New York, N. Y., a copartnership
Application March 24, 1951, Serial No. 217,288
11 Claims. (Cl. 241—24)

1. In a process for cleaning coal which includes hydrometallurgically separating relatively coarse and relatively fine refuse therefrom, whereby a portion of the fine refuse becomes suspended as a slime in the water used in processing the coal, the method of disposing of the slime-bearing water which comprises, intimately mixing such slime-bearing water with an inert particulate solid material in the proper proportions to form a substantially non-flowable and non-draining



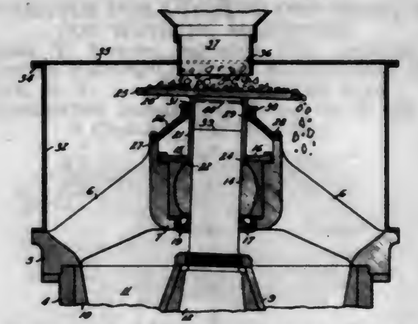
mass, and conveying said mass to a point of disposal.

2,656,119
REFINING BLENDER
Harry J. Shelton, Jr., Ladue, Mo., and Lloyd D. Smiley, Pensacola, Fla., assignors to Gruendler Crusher & Pulverizer Co., St. Louis, Mo., a corporation of Missouri
Application February 14, 1951, Serial No. 210,929
4 Claims. (Cl. 241—46)



1. In a refining blender having a housing provided in its lower portion with a slurry chamber and in its upper portion with a cage-forming chamber, a rotative shaft extending through said cage-forming chamber and being provided with a plurality of swing hammers, an arcuate screen separating the cage-forming chamber from the slurry chamber; the improvement comprising means for controlling the consistency and degree of disintegration of the outflowing material, said means including a screw conveyor extending horizontally across the bottom portion of the slurry chamber, said screw conveyor including a shaft having an inwardly disposed end, a bearing block mounted within the slurry chamber for operatively supporting the inner end of said shaft, said bearing block having an oblique face presented toward the screw conveyor and extending angularly upwardly and outwardly away from the screw conveyor, an obliquely inclined dam hingedly mounted upon the upper end of the bearing block and positioned to form a continuation surface upwardly and beyond the inclined face of the bearing block, and means for adjustably swinging the hinged dam to any desired angular position within maximum and minimum limits, for maintaining the level of slurry within the slurry chamber so that slurry will extend upwardly into the cage-forming chamber so that the upper portion of the slurry will be subjected to the action of the swing hammers and the lower portion of the slurry will be progressively propelled transversely across the slurry chamber onto and upwardly across the face of the dam and then discharged from the slurry chamber.

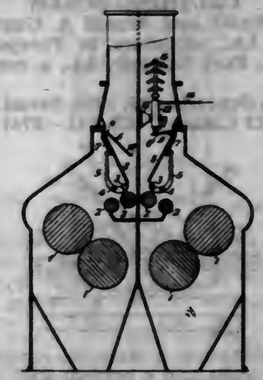
2,656,120
MATERIAL FEED DEVICE FOR GYRATORY CRUSHERS
Alexander J. Roubal, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application October 10, 1949, Serial No. 120,570
8 Claims. (Cl. 241—202)



1. In a material crushing machine having a stationary crusher member and a movable crusher member defining therebetween a crushing chamber, the combination of a spider carried by said stationary crusher member, a bearing universally swiveled in said spider above said crushing chamber, an axially-movable and gyratable shaft slidably journaled in said bearing, a material feed device comprising means adjustable toward and away from said chamber for conveying material toward said chamber, and material distributing means loosely journaled on said shaft in telescopically journaled relation thereto and in gyratable relation therewith, said material distributing means being in supported and substantially nonaxially movable relation to said spider and coacting with said material conveying means to provide an opening between said material conveying means and said material distributing means having a substantially constant mean dimension measured axially of said shaft, said opening providing for the substantially uniform distribution of material through said opening to said chamber during gyratory and axial movement of said shaft, said mean axial dimension of said opening being predetermined by the adjustment of said material conveying means toward and away from said distributing means.

2,656,121
AUTOMATIC MATERIAL FEED CONTROL FOR CEREAL COMMINUTING APPARATUS
Fritz Tanner, Sankt Gallen, Switzerland, assignor to Gebrüder Bühler, Uzwil, Switzerland
Application December 27, 1949, Serial No. 135,238
In Switzerland April 14, 1949
1 Claim. (Cl. 241—225)

In an automatic feed control means for cereal comminuting apparatus having grinding rollers, feed rolls, one higher than the other, and both above the grinding rollers, a hopper having walls above said feed rolls, the lower end of a hopper wall being spaced from said higher feed roll, a segmental feed gate between said higher roll and said lower end of said hopper for controlling the amount of material to said feed rolls, the combination of an arm transverse to the hopper having one end hinged to a wall of the hopper, linkage between said arm and said feed gate, to open said feed gate when said arm is in a downward position and close said feed gate when the arm is in its upper position, a servomotor having a piston in said hopper, one end of the piston extending out of said servomotor, a fluid supply pipe extending from said servomotor within to the outside of said hopper, a bracket secured to the inner wall of said hopper for supporting said servomotor within said hopper in the path of the cereal feed flow, said servomotor having an axis vertically aligned with its said piston, and a con-

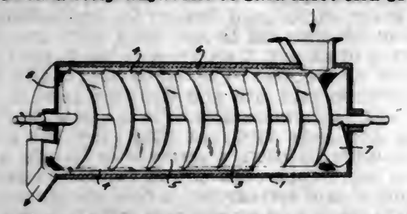


troller within said hopper above said servomotor having laterally extending vanes for supporting cereal and having a vertical shaft for said vanes, said shaft extending from said controller into said servomotor for regulating the fluid supply to said servomotor and the consequent position of its said piston on said arm, said controller shaft having an axis vertically aligned with said axis of said servomotor, forming a structural unit, whereby when cereal in the said hopper weights said controller vanes over a balanced amount, said shaft descends into said servomotor to compel said supply fluid to move the servomotor piston and said arm downwardly and by said linkage to open said feed gate, and when the cereal on said vanes is less than said weighted amount, the servomotor supply fluid is shut off and said gate closes against any feeding of said material to said feed rolls and to said grinding rollers.

2,656,122
TOOTH ARRANGEMENT FOR SCREW TYPE COMMINUTING DEVICES
Christian Börner, Obernburg (Main), Germany, assignor to Vereinigte Glanzstoff-Fabriken A. G., Wuppertal-Elberfeld, Germany
Application June 24, 1952, Serial No. 295,295
In Germany June 25, 1951
7 Claims. (Cl. 241—255)

1. A screw type comminuting apparatus comprising, in combination, a cylindrical casing having an inlet end and an outlet end; a screw located within said cylindrical casing, extending along the axis thereof, and being mounted on said cylindrical casing for rotation about said axis; and an elongated toothed strip fixedly connected to said screw at the outer surface thereof and extending in a direction substantially parallel to said axis, said strip being provided with a plu-

rality of teeth which are of a larger size at a portion of said strip adjacent to said inlet end of said



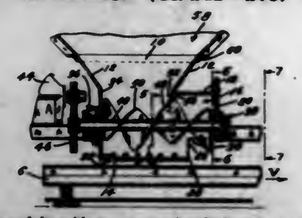
casing than at a portion of said strip adjacent to said outlet end of said casing.

2,656,123

CRUSHER WITH COMBINATION FEED AND CRUSHING SCREW

Hubert L. Smith and Arnold A. Gustafson, Port Sulphur, La., assignors to Freeport Sulphur Company, Port Sulphur, La., a corporation of Delaware

Application December 23, 1950, Serial No. 202,463
12 Claims. (Cl. 241—276)



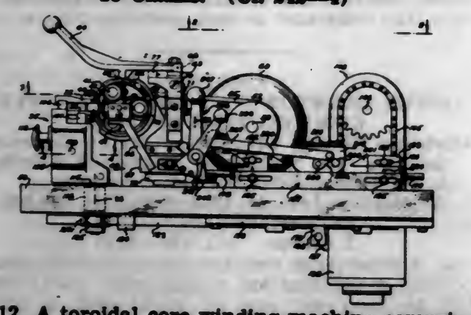
7. In combination, a material-receiving hopper having side walls and a bottom wall, a combination feed and crushing screw rotatably mounted in the hopper adjacent the bottom, means adjaceht one end of the hopper to permit egress of coarse crushed material, additional means in the bottom of the hopper to permit the passage of relatively fine crushed material, and conveyor means below the hopper movable in the direction from said additional means to said adjacent means.

2,656,124

COIL WINDING MACHINE

Clarence C. Stevens, Forestville, Conn., assignor, by mesne assignments, to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application October 4, 1949, Serial No. 119,437
18 Claims. (Cl. 242—4)



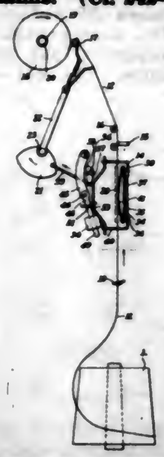
12. A toroidal core winding machine comprising a shuttle, means for rotating the shuttle at a uniform speed, a core holder for holding a core in winding position relative to said shuttle, means mounting said holder for oscillation about an axis, a pinion on said holder, a rack meshing with said pinion, drive means for reciprocating said rack through a predetermined stroke to oscillate said holder, snap action means for reversing the drive means for said rack at the end of each stroke of said rack, and adjustable means movable with said rack and settable to actuate said snap action means for varying the length of stroke of reciprocation of said rack.

2,656,125

YARN TENSIONING DEVICE

James R. O'Dell, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application June 14, 1949, Serial No. 99,037
15 Claims. (Cl. 242—45)



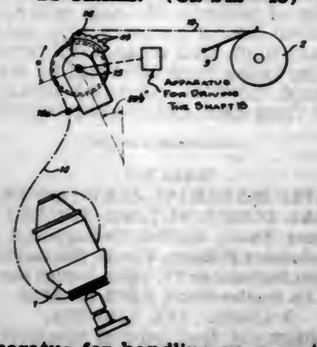
1. A yarn tensioning device comprising, in combination, a fixed flat plate, a bowed plate co-operating with said fixed plate to pinch the yarn to apply tension thereto, and means for rockably mounting said bowed plate for freedom of movement about axes parallel to the yarn to permit unrestricted adjustment of the latter so as to align with said fixed plate to provide uniform pressure across the area of contact of said plates.

2,656,126

TENSION CONTROL DEVICE FOR TEXTILE THREAD

Chadwick B. Kingsbury, Elizabethton, and Ralph H. Carter, Johnson City, Tenn., assignors to North American Rayon Corporation, New York, N. Y., a corporation of Delaware

Application December 13, 1949, Serial No. 132,714
14 Claims. (Cl. 242—45)



1. Apparatus for handling yarn or the like to provide different density packages of twisted yarn comprising the combination of a spindle for carrying yarn, means for guiding yarn from said spindle, a take-up packaging device for receiving said yarn and a tensioning device between said spindle and said take-up packaging device, said tensioning device comprising a shaft, a wheel having a substantially uniformly sinuous channel forming a path for said yarn, said wheel being rotatably mounted on said shaft, means for driving said shaft at predetermined speeds, a spring urged clutch carried by said shaft for causing said wheel to rotate with said shaft except when said yarn blocks the rotation of said wheel, means for controlling the angle of contact of said yarn with said tensioning device producing a package of predetermined density, and means for adjusting said last mentioned means when it is desired to produce packages of yarn of other and different densities.

2,656,127

APPARATUS FOR LOCKING COP TUBES ON COP WINDING MACHINES

Tillman T. Bunch, Ashland, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application June 2, 1949, Serial No. 97,832
9 Claims. (Cl. 242—46.2)



1. An apparatus for locking a cop tube on a cop winding machine, which comprises an elongated tubular spindle driven by such a machine and having a free end designed to slidably receive and rotate a cop tube, yieldable means positioned at the opposite end of the spindle for engaging the end of the cop tube and urging it in a direction in which the cop tube is removed from the spindle, an elongated permanent magnet mounted resiliently within the tubular spindle so that one pole thereof normally extends beyond the free end of the tubular spindle, said magnet being polarized so that its magnetic flux passes longitudinally therethrough, said spindle forming an external path for the magnetic flux between the poles of the magnet, and an annular member of paramagnetic material designed to be positioned slidably over the pole of the permanent magnet extending beyond the spindle so that it bridges the free end of the spindle and the adjacent pole of the permanent magnet to complete a low reluctance magnetic circuit which causes the member to be strongly attracted to the free end of the spindle, said annular member being of such size that the outer portions thereof engage the end of a cop tube positioned on the spindle and hold the cop tube on the spindle against the action of the yieldable urging means, whereby when the permanent magnet is moved longitudinally within the spindle to interrupt the low reluctance magnetic circuit said yieldable means slides the cop in a direction in which it is to be withdrawn from the spindle and disengages the annular member from the end of the spindle.

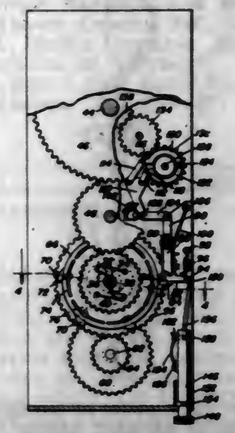
2,656,128

AUTOMATIC FILM ADVANCER FOR ROLL FILM CAMERAS AND BRAKE AND RELEASE MEANS THEREFOR

Winfield F. Horne, Kankakee, Ill.

Application October 29, 1948, Serial No. 57,202
6 Claims. (Cl. 242—71)

2. An automatic film winder for a roll film type camera comprising a spool winding shaft, drive means for rotating said spool winding shaft, a cam wheel operatively connected to said drive means for rotation thereby, cam means on said wheel, means for braking said drive means, a control lever mounted for movement towards and away from said cam wheel, an operating lever movably mounted adjacent said control



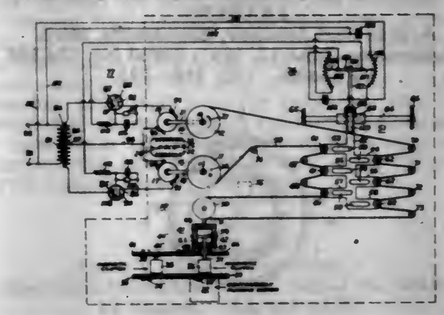
lever and operatively connected to said brake means, means responsive to engagement of said control lever with said cam means for selectively locking said operating lever to said control lever for movement therewith, and means engaging said control lever for urging said operating lever into its brake actuating position when said control lever is disengaged from said cam means.

2,656,129

HIGH-SPEED TAPE-HANDLING MECHANISM

John E. De Turk, Cambridge, and John H. MacNeill, Stoughton, Mass., assignors to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application July 22, 1950, Serial No. 175,401
15 Claims. (Cl. 242—75)



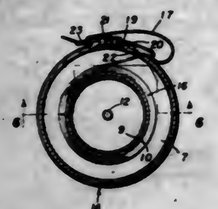
1. Tape-handling mechanism comprising a base, a first set of tape-engaging spools mounted in a first row on said base, a second set of tape-engaging spools mounted on said base in a second row parallel to said first row, a secondary base member having an elongated portion and a plurality of arms mounted thereon and extending alternately from opposite sides and substantially perpendicularly therefrom in a common plane, a tape-engaging spool mounted on each of said arms, and means on said base movably supporting said secondary base member with said elongated portion between and substantially parallel to said rows.

2,656,130
HOLDER FOR SPOOLS OF WRAPPING CORD
Jack G. Inman, Carrollton, Ill.
Application February 3, 1951, Serial No. 209,291
5 Claims. (Cl. 242—128)



1. A holder for a spool of wrapping cord comprising a tubular member having an upper portion thereof extended through an opening formed through a part of a structure by which the holder is supported, means for securing said tubular member to said structure, means mounted on said tubular member for supporting a spool of wrapping cord thereon beneath said structure, and a tubular element connected to said tubular member and disposed above said structure with which the holder is associated, said means for securing said tubular member to said structure comprising a coupling which connects said tubular member and said tubular element and abuts against an upper part of said structure, and a nut mounted on said tubular member which abuts against a lower part of said structure.

2,656,131
DISPENSING CONTAINER FOR FISHING LEADERS
Arthur Carl Johnson, Breedsville, Mich.
Application June 13, 1947, Serial No. 754,396
1 Claim. (Cl. 242—135)



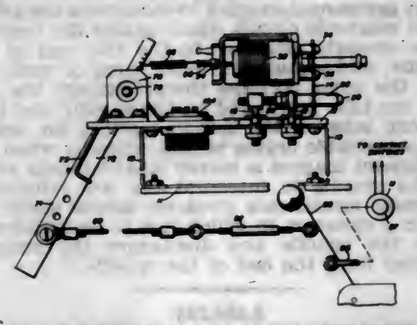
A dispensing device comprising a container adapted for holding a reel, said container having an opening through which the free end of a flexible member wound on the reel is withdrawn, a resilient elongated plate secured at its intermediate portion to the container to provide a first free end portion and a second free end portion, said first free end portion overlying the opening in clamping engagement with the free end of the flexible member to clamp the latter against the outer surface of the container, and said second free end portion of the plate being spaced from the surface of the container and having sharpened edges to form a cutting blade under which the free end of the flexible member is drawn to sever the latter by an upward pulling force subjected thereto, and said free end of the flexible member extending from the opening longitudinally over and against the top of said first free end portion of the plate toward the second free end portion of the plate and subjecting the first free end portion of the plate to a downward increased clamping force by the pulling force subjected to the free end of the flexible member.

2,656,132
STABILIZING TAB
Ben O. Howard, Los Angeles, Calif.
Application March 26, 1951, Serial No. 217,563
4 Claims. (Cl. 244—75)



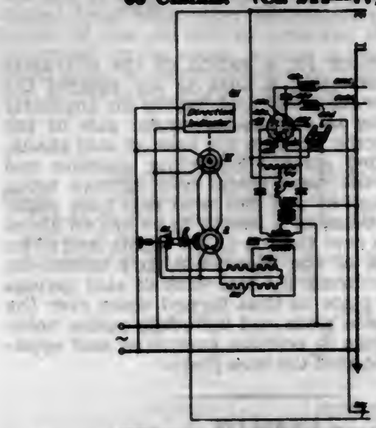
1. In an airplane a control surface element extending laterally with respect to the longitudinal axis of the airplane and rotatably secured to said airplane and adapted to present control surface portions thereof in a position opposed to the direction of the path of air impinging thereon whereby an aerodynamic moment is produced about the axis of rotation of the control surface element, and a tab of resiliently deformable material attached to the trailing portion of the control surface element, said tab having a free moving portion directed to a position in said path of air whereby an aerodynamic moment is created on the control surface element in opposition to said first identified aerodynamic moment.

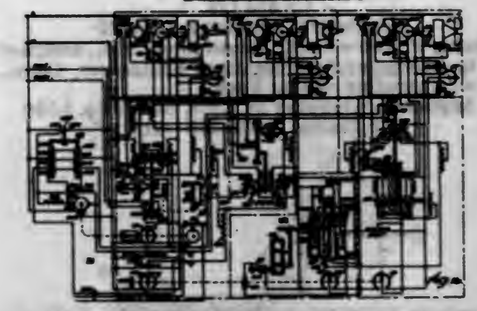
2,656,133
AUTOMATIC AIRSPEED CONTROL SYSTEM FOR AIRCRAFT
Winfield G. Maurer, United States Navy, and David V. M. Green, Camden County, N. J.
Application May 26, 1950, Serial No. 164,582
4 Claims. (Cl. 244—77)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. An airspeed control system for aircraft, installed thereon for automatically maintaining the airspeed of the aircraft between maximum and minimum limits by positioning the power throttle thereof, comprising a throttle mounted on said aircraft for controlling the supply of power thereto, airflow means for converting the velocity of the airflow therethrough, produced by the speed of said aircraft, into a pressure head proportional to said speed, pressure responsive means including an expansible element in communication with the pressure head developed by said airflow means, a servo-motor operatively connected to said power throttle adapted by the direction of its movement to advance or return said throttle, servo-motor control means operated by said pressure responsive means including an inflexible limit adjusting device for determining the direction and limits of movement of said servo-motor, and means connected directly between said throttle and expansible element for reducing automatically the limits of movement of said servo-motor, as set by said servo-motor control means.

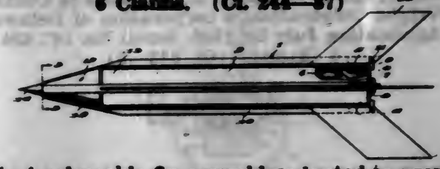
2,656,134
CONTROL SYSTEM FOR DIRIGIBLE CRAFT
Clinton R. Hanna, Pittsburgh, and Kirk A. Oplinger, Verona, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 14, 1947, Serial No. 785,985
63 Claims. (Cl. 244—77)





1. In a control for an aircraft having turn control means, roll control means and pitch control means, the combination of, a first potentiometer having a movable tap, piloting means for operating the movable tap of said first potentiometer, a second potentiometer having a movable tap, motor means for driving the movable tap of said second potentiometer, a third potentiometer having a tap, means for supplying electrical energy to said potentiometers, circuit means responsive to the voltage difference of the movable taps of said first and second potentiometers for energizing said motor means, means responsive to the voltage difference of the movable taps of said first and second potentiometers for controlling said roll control means, and means responsive to the voltage difference of the movable tap of said second potentiometer and the tap of said third potentiometer for controlling said turn control means and said pitch control means.

2,656,135
RELEASABLE FIN ASSEMBLY
Charles L. Barker, Dundalk, and Raymond G. Gaviak, Baltimore County, Md., assignors to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application May 7, 1951, Serial No. 225,942
6 Claims. (Cl. 244—87)



1. A releasable fin assembly adapted to provide a stabilized flight path for reaction type motors comprising a ring adapted to seat against the rearward exhaust end of the motor, a plurality of stabilizing arms swingably connecting at one end with said ring and extending generally normal thereto and beyond the forward end of the motor, a streamlined nose having a tip member and a base member, said base member being adapted to seat against the forward end of the motor in generally coaxial relationship therewith, an axial bore formed in said base member and having an opening adjacent said tip member, a piston secured to said tip member and adapted to be slidably received in said bore for axial movement relative thereto whereby said tip member is supported for movement toward and away from said base member, said nose being adapted to secure the free ends of said arms extending beyond the forward end of the motor when said tip member is moved toward said base member and to release said arms when said tip member is moved away from said base member, a plurality of generally radial bores formed in said base member and communicating with said axial bore, said radial bores having openings adjacent the underside of said arms, auxiliary pistons carried in said radial bores adapted for movement into contact with said arms whereby force is applied thereon tending to cause swinging movement away from said nose, and pressure means carried by said base member and communicating with said bore for actuating said first mentioned piston and said auxiliary pistons so as to move said tip member away from said base member and apply force to said arms for positively releasing said fin assembly.

2,656,136
FLYING SHIP
James V. Martin, Paramus, N. J.
Application January 3, 1951, Serial No. 204,162
13 Claims. (Cl. 244—106)



1. A catamaran hull flying craft provided with a biconvex, internally trussed main wing spacing the said hulls apart, the said wing in frontal elevation having its upper wing surface forming two substantially parallel horizontal lines, with a recurving portion intervening between the said lines, the lower of said lines located over the central wing portion and the upper of said lines defining the tops above the plane of the first said line and substantially coincident with the ordi-

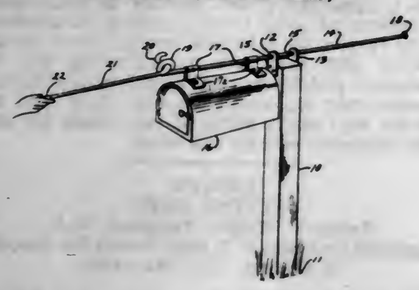
nates of the outboard sections of the said wing, whereby in flight, all of the said wing central portion and most of its outer portions can present the wing's upper surfaces in a substantially horizontal position to the atmosphere and nevertheless the wing tips can be held by the buoyancy of the adjacent hull above wave impact.

2,656,137
DYNAMIC ENGINE MOUNT
Joseph H. Leggett, Bloomfield, and Robert M. Moyer, Great Notch, N. J., assignors to Curtiss-Wright Corporation, a corporation of Delaware
Application July 29, 1949, Serial No. 107,484
6 Claims. (Cl. 248—5)



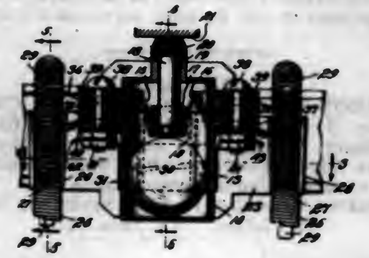
1. In combination with means for mounting an engine on a supporting structure in which said mounting means comprises a bracket for attachment to an engine, a bracket for attachment to a supporting structure and resilient means operatively connecting said brackets whereby said brackets shift relative to each other in response to and to an extent dependent on engine torque output; fluid pressure means for damping vibrations of said brackets relative to each other, said fluid pressure means including a pair of members operatively connected to said brackets for movement relative to each other in response to said bracket shift; first and second means for varying the vibration damping effectiveness of said vibration damping means, said first means being connected to one of said members and said second means being connected to the other of said members and being cooperable with said first means for rendering said vibration damping means substantially ineffective during a predetermined range of said bracket shift.

2,656,138
SLIDING MAILBOX APPARATUS
Anthony H. Kaschak, Bristol, Conn.
Application August 4, 1950, Serial No. 177,619
1 Claim. (Cl. 248—128)



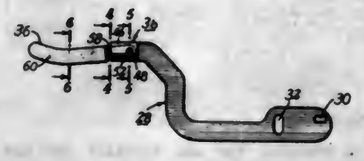
A mail box having a pair of eye-brackets attached upon the top thereof, an elongated flexible horizontal rod fitted within said eye-brackets and secured thereto, a removable stop member at one end of said rod, an upright support post having a pair of apertured strips extending above said post on opposite sides thereof, and within which said rod is slidably guided, one strip serving as an abutment to limit the forward movement of said stop member, the other strip extending above the front strip so as to cause said rod to remain level under the weight of said box when pulled forwardly, a closed eye on the forward end of said rod, and a manually-operated handle rod having an S-shaped hook at its extremity detachably insertable in said eye to facilitate pulling said rod outwardly with respect to said post using the base loop of said hook and pushing it inwardly with respect thereto using the free loop of said hook.

2,656,139
INERTIA SWITCH
Martin M. Collins, Jackson Heights, N. Y.
Application October 29, 1949, Serial No. 124,379
3 Claims. (Cl. 248—226)



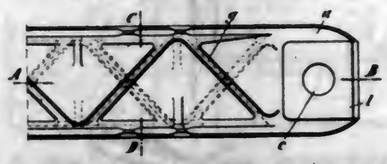
1. A mounting for a switch of the character disclosed comprising a base to lay against the shank of a brake pedal and having an angularly projecting lug to engage the under side of the shank to thereby position the base on said shank, helically coiled springs encircling opposite end portions of the base plate, said springs being connected each at one end with said base plate, said springs being of a length to be looped about the back and over the top of the shank and down over the face of the base plate, and means for adjustably securing the free ends of said springs to said base plate as thus turned down over the face of the base plate and including guides holding said springs in position encircling said opposite end portions of the base plate.

2,656,140
CAMMING ARTICLE CLAMP
Lucius P. Petruschell, Mount Dora, Fla., assignor to Dictaphone Corporation, Bridgeport, Conn., a corporation of New York
Application January 29, 1948, Serial No. 5,106
2 Claims. (Cl. 248—316)



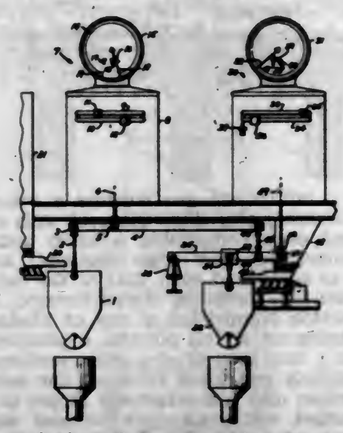
1. In a device for recording and transcribing business dictation and the like, a cradle apparatus comprising a central supporting arm, a pivot pin secured in said arm adjacent an end thereof and extending on both sides thereof, a pair of cradle members journaled on the extending portions of said pivot pin, and a pair of upwardly diverging wedging surfaces mounted on said supporting arm adjacent said pivot pin, said wedging surfaces being disposed laterally outwardly of said cradle members for sliding contact with the outer surfaces thereof to cam said cradle members toward each other upon downward pivotal movement thereof.

2,656,141
MINE SUPPORT
Josef Brand, Duisburg-Hamborn, Germany
Application January 31, 1950, Serial No. 141,447
In Germany June 14, 1949
2 Claims. (Cl. 248—351)



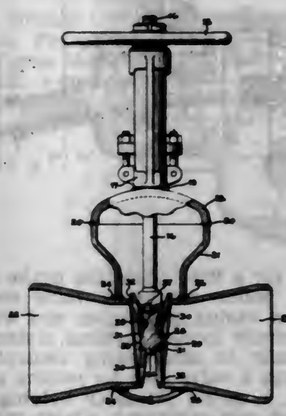
1. A cap for subsurface mining comprising an elongate beam of relatively light metal and of substantially I shape in cross section, ribs integral with the web of said beam and disposed in zig-zag fashion throughout the length thereof, said ribs being arranged on each side of the web with the ribs on one side in staggered relation with respect to the ribs on the other side, and integral console-like reenforcements of substantially triangular shape on opposite sides of said beam and connected respectively to a flange and the web of the beam, said reenforcements being spaced from each other a distance equal to the length of one rib and so arranged that a reenforcement on the upper portion of one side of the beam faces a reenforcement on the lower portion of the other side of the beam.

2,656,142
PROPORTIONING SCALE
Mark A. Weckerly, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application March 26, 1952, Serial No. 278,543
7 Claims. (Cl. 249—14)



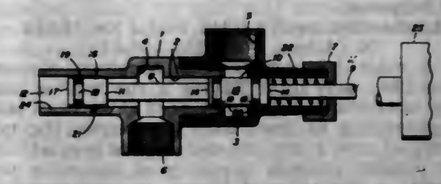
1. In a device of the class described, in combination, a load receiver, a lever system serving to support the load receiver, a first and a second load counterbalancing mechanism each operatively connected to the lever system, a second load receiver, a lever that connects the second load receiver to the second load counterbalancing mechanism and that transmits to the first counterbalancing mechanism a selectable fraction of the load force of the second load receiver in opposition to the force transmitted to the second counterbalancing mechanism by load in the first load receiver, feeders for feeding material into said load receivers, and a control system that is responsive to the counterbalancing mechanisms for controlling the feeders.

2,656,143
FLEXIBLE GATE VALVE
Fred C. Fantz, Lima, Ohio, assignor, by mesne assignments, to The Lunkenheimer Company, Cincinnati, Ohio, a corporation of Ohio
Application November 13, 1951, Serial No. 255,925
2 Claims. (Cl. 251—59)



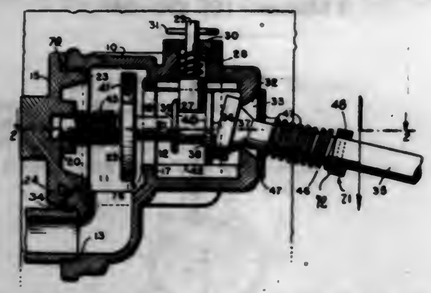
1. A gate for a gate valve comprising, a pair of spaced metal discs of similar configuration and uniform cross section in radial direction, each disc having a central aperture therein and a connector piece having disc centering stubs projecting outwardly from opposed faces thereof, the said stubs extending substantially within the respective apertures of said discs, opposed facial portions of said connector piece which are annularly adjacent said stubs residing in facial abutment with portions of said respective discs which are annularly adjacent said apertures and the said discs and connector piece being in fluid-tight welded connection, said connector piece having valve stem attachment means intermediate said discs, and said discs having opposed valve seat engaging portions residing substantially outwardly beyond the areas of engagement of the said discs and connector piece, in yieldable relation thereto.

2,656,144
FLUID PRESSURE CONTROL VALVE
Virgil L. Frantz, Roanoke, Va.
Application January 3, 1950, Serial No. 136,581
9 Claims. (Cl. 251—76)



1. A fluid pressure control valve comprising a casing, a passage formed in said casing, inlet and outlet ports connectable through said passage, piston means seated in and movable axially of said passage, said means including a substantially symmetrical member normally closing said passage between said ports and a second member connected to and spaced from said first named member, said second member normally permitting flow of fluid therepast from one of said ports, and said members being constructed and arranged to open and close said valve independently of fluid pressure acting thereon.

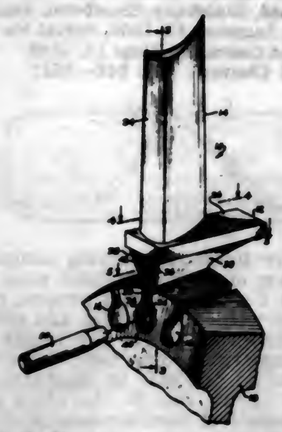
2,656,145
EMERGENCY ACTING CONTROL UNIT FOR FLUID BRAKES
Frans O. Lawson, Greensboro, N. C.
Application November 10, 1950, Serial No. 195,998
1 Claim. (Cl. 251—134)



A valve for a fluid operating brake system including a hollow casing, a valve seat in said casing, said casing having an end wall formed with a centrally located opening, a stem shiftable longitudinally in said casing centrally thereof and carrying a valve disk for resting against the valve seat, a spring yieldably holding the valve disk against said valve seat, a latch movable into and out of position for holding the valve stem and the disk in an open position, and actuating means for moving the valve stem and the disk to an opened position comprising a bar loosely passing through the opening in the said end wall of said casing and being shiftable longitudinally through the opening and tiltable transversely therein, a head at the inner end of said bar of greater diameter than said opening having its inner surface normally in spaced parallel relation to the outer end of said stem and marginal portions of its outer surface abutting the said end wall about the opening therein, an outwardly tapered shoulder extending from said head through said opening, a washer about said bar engaging portions of the outer surface of the end wall about the opening therein, a collar about said bar spaced outwardly from said washer, and a spring about said bar bearing against said washer and said collar and urging the bar outwardly to its normal position.

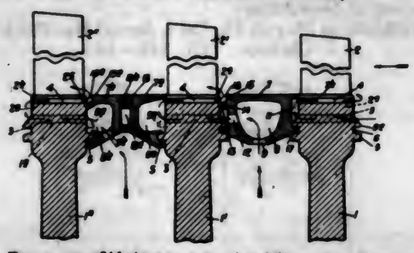
2,656,146
TURBINE BLADE CONSTRUCTION
Ferdinand P. Sollinger, Paterson, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application April 8, 1948, Serial No. 19,743
10 Claims. (Cl. 253—39.15)

1. A rotor for compressors, turbines, blowers or the like: said rotor having a rim with a plurality of circumferentially spaced slots, each said slot extending at least part way across the periphery of said rotor rim and having a relatively wide portion radially inwardly of the rotor periphery; a plurality of blades each secured in one of said slots and extending radially outwardly therefrom, each of said blades comprising a shelf part and a main part, each blade shelf part having a deck and a split shank extending inwardly from said deck and terminating in facing semi-tubular portions, the sides of said split shank being fitted between the sides of one of said slots, each blade main part having its working portion projecting through the deck of its associated shelf part and having a shank disposed between the sides of the shank of its associated shelf part, the shank of each blade main part terminating in a tubular portion disposed between the facing semi-tubular portions of its
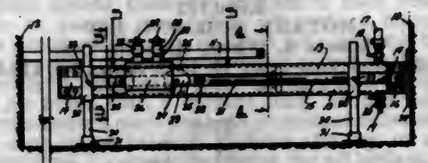


associated shelf part; and a pin tightly fitted within the tubular portion the shank of each blade main part.

2,656,147
COOLING OF GAS TURBINE ROTORS
Frank Denison Brownhill and Paul Heinz Walter Wolff, Rugby, England, assignors to The English Electric Company Limited, London, England, a British company
Application October 8, 1947, Serial No. 778,618
In Great Britain October 9, 1946
12 Claims. (Cl. 253—39.15)



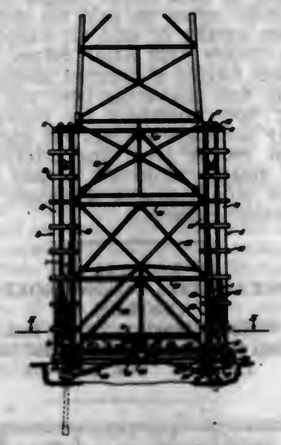
1. In a multistage gas turbine a rotor comprising several rotor discs integral with one another and each comprising a main body, profiled projections of a cross sectional area restricted as compared with that of the said main body extending from its circumference, and an outer portion comprising a row of blades, each blade having an airfoil portion, a platform portion and a root section of a cross sectional area comparatively restricted adjacent the said platform portion and comparatively larger in a portion profiled complementary to and engaging with the said profiled projections of the main body, and separate platforms arranged between the platform portions of adjacent rows of blades at the same diameter as the said platform portions, complementary coolant conducting passageways formed in said profiled projections and said root sections, the said root sections, platform portions and separate platforms forming enclosed passages between them and the said main body, means connecting said passages and passageways for conducting a continuous stream of cooling air forming a heat insulating layer between the said main body and the said outer portion, the said root sections forming the only integral connection between the said airfoil portion and the said platform portion.

2,656,148
PIPE PUSHING DEVICE
Albert L. Fladung, Westminster, Colo.
Application February 2, 1952, Serial No. 269,661
2 Claims. (Cl. 254—29)



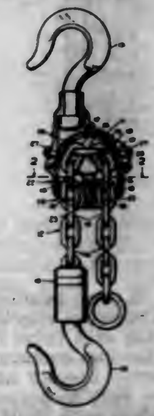
1. A pipe pushing device comprising: four longitudinally extending angle irons; means for rigidly holding said angle irons in parallel, rectangular relation; a hydraulic cylinder fixedly positioned within the enclosure of said angle irons; means locking said cylinder to said angle irons at the rearward extremity of the latter; a U-shaped carriage frame; parallel shafts extending transversally across said carriage frame; rollers mounted on said shafts and arranged to travel on the horizontal legs of the lower angle iron within the enclosure of the upper angle iron; a hydraulic plunger extending from said hydraulic cylinder; a wrist pin connecting said plunger to said U-shaped frame; an inverted, U-shaped carriage member extending across the top of said angle iron frames, thence downwardly at each side thereof to a rigid connection with said U-shaped frame so as to move with the latter along said angle iron frame; and means for clamping a length of pipe to said inverted, U-shaped carriage member.

2,656,149
TOWER JACKING STRUCTURE DRIVE
Erwin A. Campbell, Wexford, Pa., assignor to Lee C. Moore Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application October 7, 1950, Serial No. 188,971
4 Claims. (Cl. 254—92)



1. The combination with a jacking structure adapted to surround a multiple leg tower and having a separate screw jack for each tower leg, of a separate substantially horizontal drive shaft for each jack extending toward the center of the jacking structure, a support suspended from opposite sides of the jacking structure and extending across it below the drive shafts, a gear housing mounted on said support near the center of said structure, a worm journaled on a vertical axis at the center of said housing, worm gears journaled on horizontal axes in the housing and meshing with said worm at uniformly spaced intervals around it, means for operatively connecting the worm gears with the inner ends of the drive shafts, and a motor for driving said worm.

2,656,150
HOIST CONSTRUCTION
Frank Lock, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application December 6, 1951, Serial No. 260,200
1 Claim. (Cl. 254—167)



In a hoist of the class described, a housing, a pair of side plates forming part of said housing, a load wheel rotating in said housing between said side plates, a load chain comprising interlocking transversely related links trained over said load wheel whereby rotation of said load wheel lifts and lowers a load through said load chain, a cast member forming a part of the bottom and ends of said housing between said side plates and closing the bottom of said housing below said load wheel, a transverse pin holding said cast member in assembled position between said side plates, said cast member having spaced cross-shaped apertures through which said load chain enters and leaves said housing whereby said load chain is maintained in predetermined alignment relatively to said load wheel, upper guide means for guiding said load chain in said housing, said upper guide means overlapping a portion of said cast member whereby to guide said load chain relatively to one of said cross-shaped apertures, and integral means on said cast member above and between said apertures for stripping said chain from said load wheel.

2,656,151
REMOVABLE DROP-IN TYPE BACK-PRESSURE VALVE FOR DRILL STRINGS
Herbert T. Miller, Houston, Tex.
Application August 10, 1949, Serial No. 109,514
2 Claims. (Cl. 255—28)

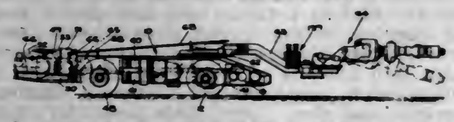
1. In a well tool, the combination of, a tubular housing having a shoulder therein and being adapted for connection into the tubular pipe string employed in the rotary method of drilling wells, a valve seat in said housing, a tubular mandrel having an external seating means thereon and a valve seat therein and being adapted to descend said pipe string to position said seating means in seated position in said housing valve seat to seal off said housing, a valve in said mandrel adapted to seat in said

mandrel valve seat to seal off said mandrel, said mandrel comprising a latch means pivoted thereto and a latch setting means adapted to move axially with relation to said latch means upon the impact of the seating of the mandrel to force said latch means outwardly to latch under said shoulder to anchor said mandrel in said housing, said mandrel also including means to maintain



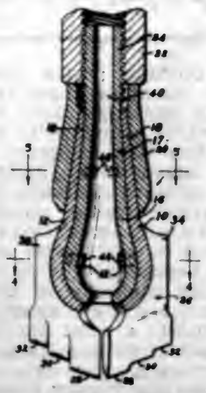
said valve latched in open position and operable responsive to fluid pressure exerted from the top of the well to release said valve for closing, said tubular mandrel having communicating openings from the interior thereof above and below said mandrel valve seat to permit fluid to pass through said mandrel with said mandrel valve latched in open position.

2,656,152
TRUCK FOR DRILL AND MINING MACHINES
Sterling C. Moon, Worthington, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application January 3, 1949, Serial No. 68,963
6 Claims. (Cl. 255—51)



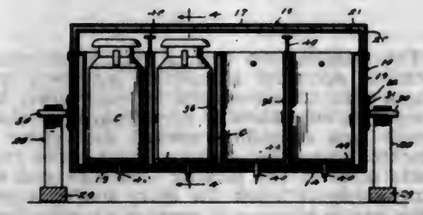
1. A truck mounted drill including a frame, means for driving said truck including a pair of hydraulic traction motors, an electric cable reel driving motor, a drill on said frame having a hydraulic operating motor, a pair of power driven hydraulic pumps, a hydraulic circuit interconnecting said pumps and motors including three adjustable valve members, means biasing said valve members to neutral position wherein the output of both pumps is by-passed, and reversely operable lever mechanism connected to adjust all three of said valve members to one operating position when moved in one direction from neutral and to adjust only two of said valve members when moved in a reverse direction from neutral, said lever mechanism when moved in said one direction operating said three valves to connect the output of both said pumps to said two traction motors, and to connect the output of said two traction motors to said cable reel driving motor; said lever mechanism when moved in said reverse direction operating said two valves to connect the output of both pumps to said two traction motors, and to provide a by-pass for the cable reel driving motor, said valves operating when they and said lever mechanism are in their neutral positions to by-pass the output of one of said pumps and connect the output of the other pump to said drill operating motor.

2,656,153
ROTARY DRILLING BIT
Thomas A. White, Quanah, Tex.
Application September 12, 1949, Serial No. 115,255
2 Claims. (Cl. 255—61)



1. A rotary drill bit comprising a bit support member having a downwardly and outwardly tapered portion annular in cross section, a plurality of cutter body members surrounding said bit support member, each of said cutter body members having an arcuate inner face and an outside surface which extends downwardly and outwardly over said tapered portion of the bit support member, a cutter blade integral with each of said body members and projecting downwardly therefrom, pins, and holes receiving said pins, on and in said cutter body members and bit support member, for interlocking said cutter body members and bit support member against the tendency of said cutter blades to retrogress in a rotational sense on said bit support member or move axially of said bit support member under the rotary and axial forces of drilling, sleeve means having a tapered inside extending downwardly and outwardly over the outsides of said cutter body members for restraining said cutter body members to said bit support member against escape from the interlocked positions, and means connected to said bit support member for longitudinally thrusting said sleeve to the restraining position.

2,656,154
THERMOSTATICALLY CONTROLLED MILK COOLER
Wilbert Hurley, Flora, Ind.
Application October 9, 1950, Serial No. 189,224
1 Claim. (Cl. 257—2)



A liquid cooler comprising a housing formed of hollow front and rear walls, hollow end walls and a hollow bottom, heat insulating means in said walls, a heat insulated cover for said housing, a plurality of spaced vertically disposed cylindrical receptacles adapted for the reception of individual liquid containers in said housing, a grating spaced from the bottom of each receptacle to permit circulation of coolant beneath said liquid containers, an inlet adjacent the bottom of each receptacle, an outlet adjacent the top of each receptacle, a common manifold supplying all inlets with a coolant fluid, an individual valve adjacent each inlet, an elongated valve stem for each valve extending above the top of said receptacles, a common exhaust for all outlets, an exhaust tank into which said exhaust empties, a thermostatic valve in said manifold, and an actuating element for said thermostatic valve in said exhaust tank whereby the flow of coolant to said receptacles is governed by the temperature of the exhaust therefrom.

2,656,155
RADIATOR
Alan Louis Garratt, Kenilworth, England, assignor to The Coventry Motor Fittings Company Limited, Coventry, England
Application February 16, 1950, Serial No. 144,403
In Great Britain June 3, 1949
2 Claims. (Cl. 257—129)



1. A radiator for the liquid cooling system of an internal combustion engine, said radiator having upper and lower header tanks connected by radiator tubes, each said header tank comprising a dished body part having a continuous substantially vertically disposed wall, in combination with a radiator tube plate in which said tubes are secured by liquid tight joints in such a manner that their bores are in communication with the interior of said header tank, said body part having an endless substantially flat permanent form marginal flange extending substantially at right angles from its vertical wall at the edge of the latter, and said tube plate having a permanent form endless marginal groove of open form having a flat bottom with sides perpendicular thereto and receiving the flat flange and adjacent wall portion of said body part, the flat flange being of a width so that it extends across and against the flat bottom of the groove for transverse location between the perpendicular sides of the latter with said adjacent wall portion of the body part against a perpendicular side of the groove, and solder in said groove extending continuously from between the flat flange and flat bottom of the groove to between the adjacent wall portion of the body part and said perpendicular side of the groove so as to form a liquid tight continuous joint uniting said body part to said tube plate.

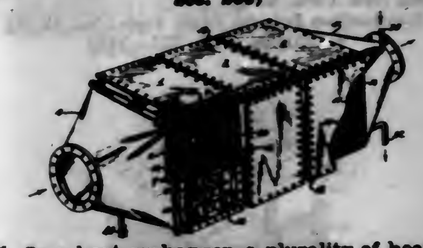
2,656,156
BASEBOARD RADIATOR
Chester M. Wilcox, Allentown, Md.
Application May 1, 1950, Serial No. 159,234
4 Claims. (Cl. 257—128)

1. A baseboard radiator employing a heated fluid-containing core having spaced-apart fins, a housing for the core, including a wall section, and suspension means for the core comprising a substantially straight horisontal row of spaced-apart bracket holders removably secured to and extending from said wall section including upwardly-projecting pairs of tongues extending into the housing, the tongues of each pair being substantially directly one above the other, and a core-supporting bracket for each pair of tongues, said bracket having a pair of spaced-apart arms,



each arm being provided with a downwardly-opening slot to receive a tongue in a substantially horizontally-swinging relationship of said arms with said tongues when a coil is supported by said bracket, and connecting means rigidly connecting the pair of arms in substantial parallelism.

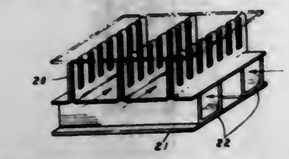
2,656,157
HEAT TRANSFER ELEMENT SUPPORTED AGAINST EXTERNAL OR INTERNAL PRESSURES
Eugene W. Wasielewski, South Euclid, Ohio
Application February 16, 1950, Serial No. 144,551
5 Claims. (Cl. 257—235)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a heat exchanger, a plurality of heat exchange sections coupled together, each heat exchanger section comprising an inner wall arranged to define a central passage to conduct a hot fluid, the passage having open ends for through passage of hot fluid, a first row of coolant carrying heat transfer conduits, each conduit being fastened at both of its ends to opposed portions of said wall, a second row of coolant carrying heat transfer conduits, each of which is fastened to other opposed portions of said wall, said rows of conduits being arranged at substantially right angles to each other to thereby brace said wall against the forces of internal and external pressures, an outer wall surrounding said inner wall, means fixing said walls in spaced relationship to each other to define a jacket, said inner wall being provided with a plurality of apertures which are arranged to communicate the bores of said conduits with said jacket, an inlet line connected to said jacket, an outlet line connected with said jacket and having a cou-

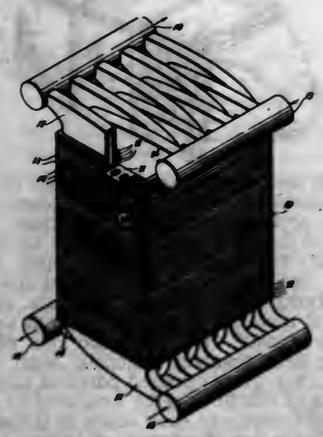
pling thereon to connect with the inlet line of an adjacent section, a plurality of tubes arranged to constitute a water wall, said tubes being located interiorly of and parallel to said inner wall, and inlet and outlet means connected with and for said plurality of tubes.

2,656,158
PLATE TYPE HEAT EXCHANGER AND METHOD OF MANUFACTURING SAME
Peter Hodson, Wellsville, and Ernest A. Lundstrom, Valley Stream, N. Y., assignors to The Air Preheater Corporation, New York, N. Y.
Application July 23, 1948, Serial No. 40,336
10 Claims. (Cl. 257—245)



8. In a heat exchanger; a wall member separating passages for two streams of fluid between which heat is to be exchanged consisting of a plate member having a plurality of rows of closely spaced narrow tab-like fins projecting from its surface, said tab-like fins comprising doubled ligament portions of the plate located between perforations spaced in rows therein, abutting faces of said doubled ligament portions being bonded together so as to prevent leakage of fluid from one side of said plate wall to the other side thereof.

2,656,159
LAMINATED HEAT EXCHANGER
Sven Holm and William E. Hammond, Wellsville, N. Y., assignors to The Air Preheater Corporation, New York, N. Y.
Application July 24, 1948, Serial No. 40,546
4 Claims. (Cl. 257—245)



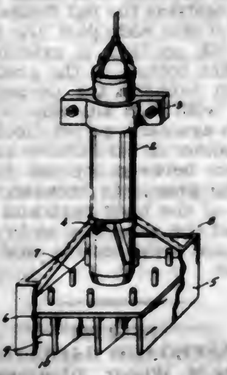
1. A heat exchanger comprising: a core made up of stacked plates formed with spaced parallel rows of apertures separated at intervals by plates formed with similarly spaced, parallel slots with the apertures and slots alined to form parts of parallel passages and the ligaments between contiguous apertures in said rows constituting fins that occur in the passages at intervals in the direction of flow corresponding to the thickness of said slotted plates; a plurality of plates disposed at each end of the core formed with slots spaced to correspond with the spacing of said passages and constituting extensions thereof; a pair of manifolds disposed at opposite ends of the core having finger-like conduits extending into alternate slots in said end, plates for admitting fluid to and receiving it from the passages of said core; and other similar manifolds having fingers connecting with the intermediate slots in said end plates for circulating another fluid through intermediate passages.

2,656,160
TAB STRIP FIN FOR HEAT EXCHANGER CORES
Ray L. Lyerly and Sven Holm, Wellsville, N. Y., assignors to The Air Preheater Corporation, New York, N. Y.
Application June 4, 1951, Serial No. 229,805
6 Claims. (Cl. 257—245)



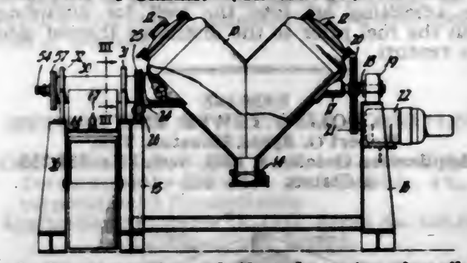
1. In a heat exchanger having metallic plates spaced apart as walls of fluid passage; a plurality of longitudinal fin elements mounted in said passage in side by side relation each comprising an elongated metallic strip disposed in spaced relation to said walls and formed with pairs of marginal tabs extending from each longitudinal edge alternately in opposite directions from the plane of the body of the strip toward the opposite walls of said passage to provide alternately upright and inverted generally U-shaped channel parts with end portions of the tabs contacting said walls.

2,656,161
SHAKING DEVICE, ESPECIALLY INTERNAL SHAKER FOR COMPACTING LOOSE MASSES
Wilhelm Degen, Frankfurt am Main, Germany
Application September 6, 1950, Serial No. 183,422
In Germany September 9, 1949
7 Claims. (Cl. 259—1)



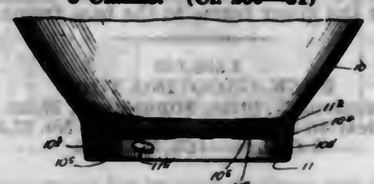
1. A vibrator for compacting concrete or the like comprising a body adapted to be vibrated and to transfer its vibrations to a loose mass of concrete, means for vibrating said body, and a hollow member having side walls adapted to confine a predetermined mass of concrete and which is open at the bottom, said hollow member being arranged at the lower part of said body adjacent the concrete.

2,656,162
TUMBLING MILL FEED MECHANISM
John J. Fischer and Lemuel J. Morgan, East Stroudsburg, Pa., assignors to The Patterson-Kelley Co., Inc., East Stroudsburg, Pa.
Application July 24, 1951, Serial No. 238,352
6 Claims. (Cl. 259—14)



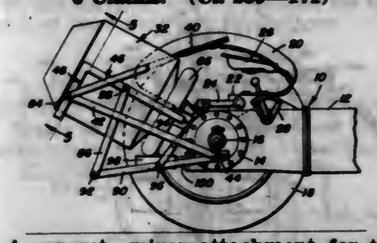
1. An apparatus of the character described comprising a rotatably mounted vessel for confining and tumbling masses of material, said vessel being supported by trunnion members projecting outwardly from opposite sides of said vessel, one of said trunnion members comprising a cylindrical bracket integral with said vessel and terminating in a bearing ring engaging roller supports, a material feeding device comprising a generally cylindrical casing extending through said bearing ring and cylindrical bracket and having an open inner end for discharge therethrough of material into the interior of said vessel, said cylindrical casing being mounted independently of said cylindrical bracket and said vessel, a detachable end plate carried by the outer end of said casing and an end thrust bearing mounted thereon, means for introducing feed material into said casing intermediately of the ends thereof, a feed screw device disposed within said casing and having extending shaft portions at its opposite ends, one of said shaft portions extending through the open inner end of said casing and engaging in keyed relation with a bracket fixed to said vessel for rotation therewith, the other shaft portion of said feed screw engaging said end thrust bearing on said end plate for maintenance of the keyed connection between said feed screw and said vessel bracket, whereby said end plate may be detached from said casing and said feed screw then withdrawn therefrom for cleaning purposes.

2,656,163
MIXER BOWL
Joseph A. Schwarz, Chicago, Ill., assignor to Birtman Electric Company, a corporation of Illinois
Application September 19, 1951, Serial No. 247,317
5 Claims. (Cl. 259—81)



1. In a mixer bowl adapted to be removably attached to a mixer platform member, a base portion on the bowl having a concave bottom depression, a metal member of inverted cup shape held in said depression with the outer surface of the metal member bearing against the inner surface of the depression-containing base portion and attached thereto at a plurality of spaced areas each of substantial size, and means on the metal member for removably attaching this member to the platform member.

2,656,164
CONCRETE DUMPING DEVICE
Fred Knowlton, Oxford, Kans.
Application May 1, 1952, Serial No. 285,365
6 Claims. (Cl. 259—171)



1. A concrete mixer attachment for tractors, said concrete mixer attachment comprising a mixing barrel, a mixing barrel cradle supporting said mixing barrel for rotary movement, a supporting frame for mounting said cradle on a tractor, said cradle being pivotally carried by said supporting frame, means for tilting said mixing barrel from a mixing position to a dumping position, said tilting means including a first link pivotally connected to said mixing barrel cradle, a second link pivotally connected to the other end of said first link, said second link being adapted to be pivotally connected to said tractor, an actuating arm secured to said second link intermediate the ends thereof.

2,656,165
CARBURETOR
Elmer M. Bimberg, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application May 15, 1948, Serial No. 27,223
4 Claims. (Cl. 261—41)

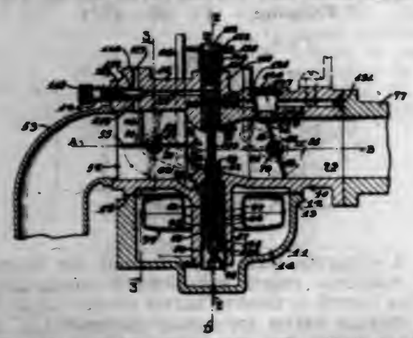


1. In a carburetor having a horizontal induction passage, a source of fuel beneath said passage, a conduit connecting said source with the induction passage and having a vertical section, a chamber extending parallel with and offset from said vertical section and communicating with said passage, and a plurality of ports connecting said chamber with said conduit for supplying air to said fuel conduit to form a fuel-air emulsion.

2,656,166
CHARGE FORMING DEVICE
Edward H. Foster, Toledo, Ohio, assignor to The Tillotson Manufacturing Company, Toledo, Ohio, a corporation of Ohio
Application July 12, 1949, Serial No. 104,225
13 Claims. (Cl. 261—41)

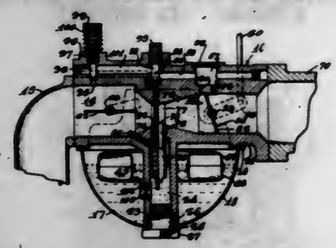
1. In a carburetor, in combination, a body; a fuel receptacle disposed directly beneath the

body; a float controlled valve for establishing a predetermined fuel level in said receptacle; a fuel well associated with said body; a mixing passage including a venturi formed in said body; an air inlet passage formed in the body in communication with said mixing passage; the axes of said mixing and air inlet passages being in parallel relationship with the axis of said mix-



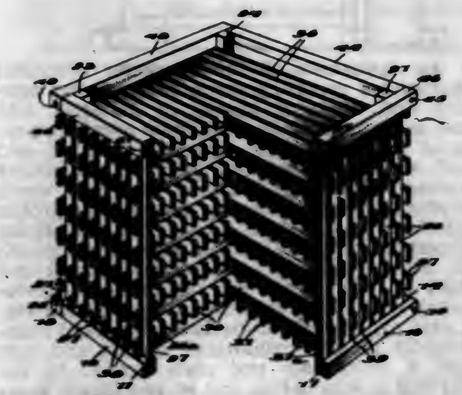
ing passage being nearer to the fuel level in said receptacle than the axis of said air inlet passage; a fuel discharge orifice arranged to discharge fuel from said well into the mixing passage; a member extending through said orifice for regulating the flow of fuel from said receptacle to said fuel well; the longitudinal axis of said member being out of alignment with the axis of said fuel discharge orifice.

2,656,167
CHARGE FORMING DEVICE
Bernard C. Phillips, Toledo, Ohio, assignor to The Tillotson Manufacturing Company, Toledo, Ohio, a corporation of Ohio
Application February 6, 1950, Serial No. 142,630
3 Claims. (Cl. 261—41)



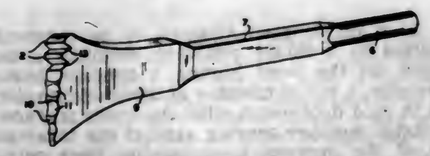
1. In a charge forming device, in combination, a substantially horizontal body member, a receptacle secured to said body member forming a fuel chamber, a mixture outlet formed in said body member, a venturi formed in said body member axially aligned with the mixture outlet, an air inlet in line with said venturi and mixture outlet and formed in said body member, said body member having a portion depending into the receptacle formed with a fuel well beneath said venturi, said fuel well having an opening into said venturi, a secondary fuel-air mixture discharge orifice in a wall of said mixture outlet above said venturi, a secondary air inlet in a wall of said air inlet above said venturi and arranged to admit air for admixing with fuel prior to its discharge from said secondary orifice, a mixing chamber formed in said body member and located above said venturi, two passageways one of which connects said mixing chamber with said secondary air inlet and the other of which connects said mixing chamber with said secondary mixture orifice, said passageways being substantially parallel to said air inlet and mixture outlet, a fuel line connecting said well with said mixing chamber, means for metering fuel flow from said fuel chamber to said fuel well, and means formed in said body for admitting air into the well for admixing with the fuel prior to the discharge thereof into the venturi.

2,656,168
COOLING TOWER UNIT
Robert O. Ayres, Houston, Tex.
Application October 8, 1951, Serial No. 250,225
4 Claims. (Cl. 261—108)



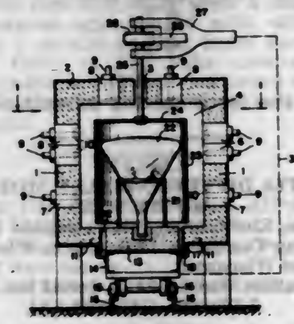
1. A cooling tower unit comprising, a base including four carrier members providing a rectangular shaped frame, each carrier member having a groove in the upper face thereof, a plurality of flat elongated vertically disposed spacer elements having their lower ends seated in said grooves and extending upwardly therefrom, filler blades rectangular shaped in cross section horizontally disposed and arranged in parallel relationship and lying across opposite carrier members of the base frame with the ends of the filler blades extending between some of the spacer elements, filler blades rectangular shaped in cross section horizontally disposed and arranged in parallel relationship at right angles to the first filler blades and supported thereon with the ends of the second group of filler blades extending between the spacer elements at the other sides of the base frame, an upper rectangular shaped frame having grooves in the lower faces thereof for receiving the upper ends of said spacer elements, opposite side portions of said upper frame overlying ends of the filler blades, and means connecting the upper frame to the base frame.

2,656,169
ROCK-GROOVING TOOL
Raymond N. Stich, Minneapolis, Minn.
Application March 28, 1949, Serial No. 83,935
3 Claims. (Cl. 262—33)



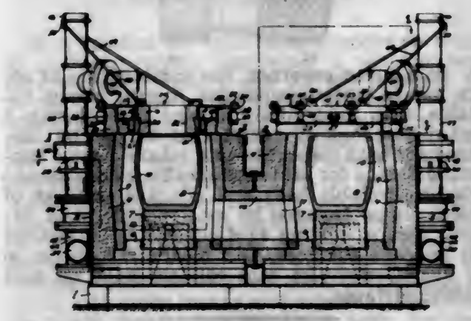
1. A rock-grooving tool comprising an elongated shank adapted to be reciprocated by a series of downwardly directed blows thereon, a cutting head fixed at the lower end of said shank, and a cutting edge formed at the lower extremity of said head, said edge being beveled downwardly toward the rear end thereof and being tapered from the front to the rear edge thereof to permit a substantially level score line to be cut in a rock slab by substantially vertical operation of the tool.

2,656,170
METHOD AND APPARATUS FOR HEATING OBJECTS
Carl P. Mann, Riverton, N. J., assignor to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania
Application November 16, 1951, Serial No. 256,803
6 Claims. (Cl. 263—3)



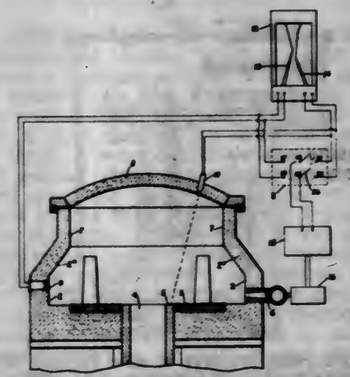
1. The method of heating an article evenly around its surface which comprises supporting the article to be heated, placing a shield around the article to be heated and out of contact therewith, heating the shield from a plurality of spaced points, and rotating the shield relative to the article.

2,656,171
FURNACE FOR HEATING CRUCIBLES AND THE LIKE
George E. Markley, Cleveland Heights, Ohio
Application May 13, 1947, Serial No. 747,686
4 Claims. (Cl. 263—14)



3. A furnace for heating crucibles and the like comprising an upwardly open refractory walled combustion chamber having a removable cover, and an opening to atmosphere through the cover; a support in the chamber for supporting a crucible under the cover opening; the cover having a plurality of burner tunnels therein, open at the top and opening downwardly at the lower side of the cover; an air conduit connected to the cover; a plurality of burners supported by the air conduit and comprising means for mixing fluid fuel and air, and disposed to project flames of burning fuel downwardly into and through the tunnels; the tunnels disposed to direct the flames downwardly into the top of the chamber and around its contained crucible; fluid fuel supply conduit means and air supply conduit means for supplying fluid fuel to the burners and air to the air conduit; and conduits from the air conduit to the burners; and an opening for egress of burnt fuel near the chamber bottom.

2,656,172
METHOD OF OPERATING SOAKING PITS
Frank C. McGough, Youngstown, Ohio
Application November 29, 1949, Serial No. 129,910
3 Claims. (Cl. 263—52)

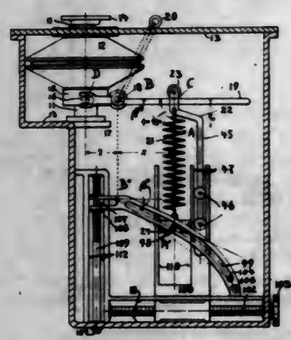


1. The method of operating a soaking pit having side wall peripheral burners and a sidewall temperature recording means and also having an outlet port for spent gases with an outlet recording means, and a fuel supply for combustion control arranged to be operated in accordance with the side wall temperature or the exhaust gas outlet temperature which comprises controlling the fuel input by the temperature of the side wall and reducing the rate of fuel input only when the temperature of the effluent gases reaches a predetermined rolling temperature while the side wall temperature of the pit is brought to a temperature above the rolling temperature, thereafter, when the temperature of the effluent gases reaches rolling temperature, decreasing the rate of fuel input to hold the temperature of the effluent gases at the rolling temperature whereby the side wall temperature diminishes, and continuing the operation with the effluent gases equaling the rolling temperature until the side wall temperature also equals such rolling temperature.

2,656,173
VARIABLE SPEED GOVERNING MECHANISM WITH MODIFIER
Meyer Frankel, London, England
Application March 30, 1950, Serial No. 152,846
In Great Britain June 20, 1949
20 Claims. (Cl. 264—3)

1. A variable speed governing mechanism which comprises a fixture, a governor shaft rotatably mounted on said fixture, a speed responsive device having a sleeve-member for performing motion responsive to changes of speed of rotation of said governor shaft, means for transmitting motion of said sleeve-member to a control-organ of an apparatus to be governed, and an adjustable spring-lever balancing mechanism

for said speed responsive device, which comprises a lever transmission arrangement, a spring-means, an anchorage for said spring-means, a support for said anchorage in all positions of said anchorage, a first connection means engaging both another part of said spring-means and said lever transmission arrangement, a fulcrum for said lever transmission arrangement, a support for said fulcrum, a second connection means engaging both said lever transmission arrangement and said sleeve-member of said speed responsive device, and speed-setting adjustment means comprising a first means for displacing relative to said fixture at least one of three components respectively recited as said first connection means, said fulcrum and said second connection means; a second means for displacing said anchorage of said spring-means relative to said support for



said anchorage, relative to said fixture, and relative to said first connection means with a change of the distance between said anchorage and said first connection means, said anchorage being immovable relative to said fixture with said displacement means in the same position; and one actuating means for said first and said second displacement means, the said actuating means being out of contact with said lever transmission arrangement; the said speed-setting adjustment means effecting the said displacements of the said components to involve a change in the deflection of said spring-means at least for the mid-position of said sleeve-member, and the said displacements of the said components being mutually interdependent, being carried out simultaneously with only one actuating means, and corresponding to one another.

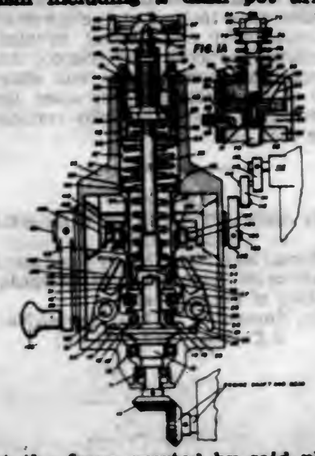
2,656,174

GOVERNOR FOR PRIME MOVER WITH COMPRESSED AIR CONTROL FOR ADJUSTING IT TO A WIDE RANGE OF SPEEDS

Robert R. Crookston, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application November 13, 1950, Serial No. 195,175
11 Claims. (Cl. 264—3)

1. A spring-loaded governor for maintaining the speed of a rotative prime mover within reasonably constant limits and adjustable for different speeds comprising a spindle for rotation about its longitudinal axis; a pair of weights pivotally mounted on said spindle for arcuate movement when said spindle is rotated; a plurality of springs mounted in tandem and arranged to oppose successively the arcuate movements of said weights as the rotative speed of said spindle is increased and an air actuated mechanism including a dash pot arranged to



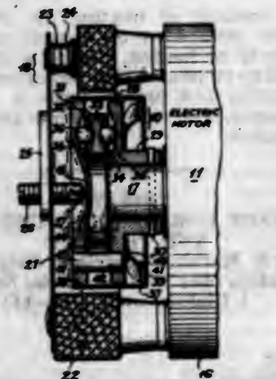
augment the force exerted by said plurality of springs.

2,656,175

INERTIA DIFFERENTIALLY MODIFIED GOVERNOR

Royal Lee, Elm Grove, Wis., assignor to Lee Engineering Company, Milwaukee, Wis., a corporation of Wisconsin

Application May 12, 1951, Serial No. 225,945
9 Claims. (Cl. 264—6)



5. In a speed governor, the combination of rotary means, speed-responsive inertia means rotatable with said rotary means and having a limited freedom of radial and tangential displacement with respect to said rotary means, supporting means for said displaceable inertia means including rollable balls and concave surfaces of conical shape engaged by said rollable balls, resilient means holding said rollable balls against said concave surfaces, and means responsive to the displacement of said rollable balls on said concave surfaces.

2,656,176

WEIGHING MACHINE

Armin Wirth, Zurich, Switzerland

Application February 6, 1950, Serial No. 142,551
In Germany February 8, 1949
4 Claims. (Cl. 265—56.5)

1. In a weighing machine of the type having a load supporting lever system and an indicator device with a member connecting said lever system with said indicator device, a yoke in said connecting member, a support member, a beam extending through said yoke, a first knife edge on said beam transversely thereof, a pillow block on said support member in engagement with said knife edge, a second knife edge on said beam



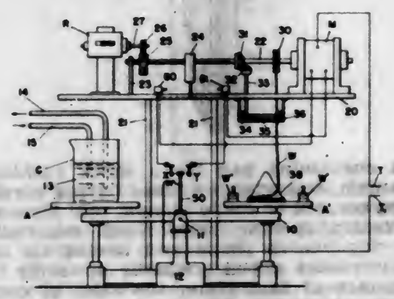
parallel with said first knife edge, a pillow block in said yoke in engagement with said second knife edge, a weight on said beam exercising a downward force on said yoke, means on said beam for counteracting said downward force, and means for adjusting the effect of said counteracting means.

2,656,177

ENGINE OIL CONSUMPTION APPARATUS

George J. Liddell, Springfield, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application March 8, 1950, Serial No. 148,469
1 Claim. (Cl. 265—60)



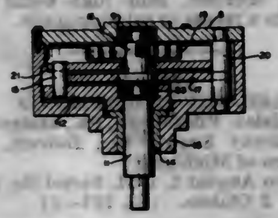
In a balance for indicating changes in weight of material which comprises a pivoted beam carrying at one end a pan for the material and at the other end a weight pan, the improvement which comprises a support positioned above the pivoted beam, a reversible motor on said support, a shaft operable by said motor, a counter operable by said shaft, a drum on said shaft and positioned generally directly above the weight pan, a flexible weight having one end mounted for rotation with said drum and its other end depending freely therefrom, guide means for said flexible weight between its ends, connections between said guide means and said shaft to actuate the guide means in accordance with the shaft rotation to deposit lengths of the weight on or to remove lengths of the weight from said pan, a power source, a switch arm on the pivoted beam, a connection between the power source and the switch arm, another connection between the power source and the motor, a pair of contacts, connections between each of the contacts and the reversible motor, said contacts being alternately energized by the switch arm to operate the motor upon pivotal movement of the beam.

2,656,178

RETURN MECHANISM

Arthur C. Hughes, Jr., Puente, Calif., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

Application March 14, 1946, Serial No. 654,494
11 Claims. (Cl. 267—1)



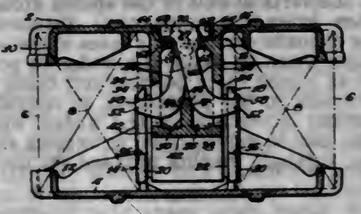
1. A centering device for returning a shaft to a predetermined center position, said device comprising a housing, a shaft rotatably mounted in said housing, an arm fixedly secured to said shaft, a second shaft rotatably mounted in said housing, a first disc fixedly mounted on said second shaft, a second disc rotatably mounted on said second shaft, means on said housing and said discs for limiting rotation of one of said discs in one direction and for limiting rotation of the other of said discs in the opposite direction, means on said arm and said first disc responsive to one direction of rotation of said arm for causing rotation of said first disc, means on said arm and said second disc responsive to the opposite direction of rotation of said arm for causing rotation of said second disc, and means operatively connecting said second-mentioned disc and said second-mentioned shaft for returning said first-mentioned shaft to a predetermined position upon displacement therefrom.

2,656,179

SPRING GROUP

John E. Flesch, Los Angeles, Calif., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

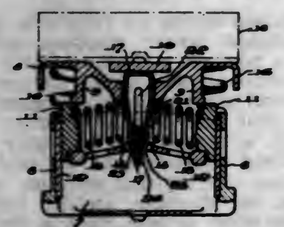
Application April 21, 1950, Serial No. 157,289
15 Claims. (Cl. 267—9)



1. A package spring group comprising top and bottom plates, top and bottom telescoping followers formed integral with respective plates, said top and bottom followers comprising spaced side walls arranged in parallel adjacent relationship with horizontally alignable vertically elongated slots therein, springs between said plates urging them apart, and means for limiting separatory movement of said plates, said means comprising a bottom wall on said top follower integral with said side walls, an abutment on the top side of said bottom wall between said side walls of the top follower, ledges adjacent the top end of said top follower, keys extending through said top plate between said ledges, each key being seated on one side against said abutment and extending through the slots

in the adjacent side walls of the top and bottom followers for abutment at its opposite side with the associated wall of the bottom follower at the upper end of the slot therein, each key having a face formed as a continuation of the last-mentioned side of the key in abutment with a generally vertical face of one of said ledges, each key having a lug extending over the other ledge and seated thereon, said lugs being disposed wholly within a recess in said top plate.

2,656,180
RAILWAY CAR SPRINGS
Louis E. Endsley, Pittsburgh, Pa., assignor to The Frost Railway Supply Co., Detroit, Mich., a corporation of Michigan
Application August 2, 1951, Serial No. 239,969
2 Claims. (Cl. 267—9)



1. A spring group comprising top and bottom spring plates having load-carrying coils between them, an upwardly-extending casing on the bottom plate, downwardly-extending spring housings carried by the top plate and extending into the casing, friction surfaces on oppositely-disposed walls of the casing, friction shoes extending slidably through oppositely-located walls of the housings and having engagement with said surfaces, a pair of coil snubbing springs, partition walls in the housings, having openings to loosely receive the inner ends of the pair of snubbing springs whose outer ends respectively seat against said shoes, and a wedge-shaped spring seating block removably inserted between said partitions and engaging the inner ends of the snubbing springs to compress them against the shoes, there being a depression in the upper face of the top plate, symmetrically-disposed with respect to the vertical axis of the spring group, the depression extending substantial distances beyond the opposite vertical side faces of the wedge, and a filler plate on top of the wedge in position to serve as a seat for a bolster, and being movable vertically in the depression, in conjunction with vertical movements of the wedge, whereby the wedge can be moved down to various vertical positions, through weights imposed on the filler plate.

2,656,181
VEHICLE SPRING REARCHING MEANS
August R. Hellwig, Glendale, Calif.
Application December 26, 1950, Serial No. 202,593
9 Claims. (Cl. 267—48)

1. In a reinforcing means for a multiple leaf type of semi-elliptic vehicle spring a pair of spring metal bars each having one end thereof anchored to the concave side of the spring adjacent the mid-point of the spring and extending from their points of anchorage toward the opposite ends of the spring, respectively, and each of said bars terminating in a free end portion spaced from the end of the spring toward which it extends and intermediate its ends having a fulcrum-like portion engaging the concave side of the spring, and adjustable means operable to interconnect the free end of each of said bars with the complementary end of the longest leaf only of the spring with resultant creation of an increase in the arch and consequent load carry-



ing capacity of the spring while maintaining substantially the original coefficient of friction between the spring leaves incident to flexure of the spring.

2,656,182
CUSHIONING DEVICE
Donald Willison, Maple Heights, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Application June 23, 1951, Serial No. 233,139
13 Claims. (Cl. 267—63)



1. A cushioning pad for a shock cushioning mechanism, comprising a plate having a rubber cushion secured to a side thereof, said plate having a central opening therethrough, said cushion being ring-like in shape and having its inner and outer sides sloped gradually upwardly from the surface of said plate, the sides of certain portions of said cushions being more steeply sloped than the adjacent sides, and the crest of said more steeply sloped portions being disposed at a lesser height above said plate than the crest of the adjacent portions.

2,656,183
PARACHUTE APPARATUS
Edward A. Neff, Chicago, Ill.
Application June 16, 1948, Serial No. 33,469
7 Claims. (Cl. 267—72)

1. A tension member for opening a parachute container comprising a series of extensible and contractible members, a protective covering including an individual compartment for each of said extensible and contractible members, and a hook including a corrugated base and side members at each end of said tension member, each end of said extensible and contractible members being attached to the associated hook at one of the corrugations whereby said extensible and contractible members are separately positioned, said base being attached to one of said sides in a relatively rigid and smooth relationship, loop means securing the free end of said

base to the other of said sides, and said protective covering being sealed at each end of said tension



member thereby to enclose the corresponding base.

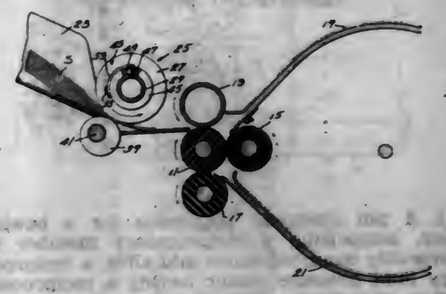
2,656,184
ENDLESS FILM MAGAZINE
William C. Eddy, Michigan City, Ind., assignor to Television Associates, Inc., Michigan City, Ind., a corporation of Illinois
Application January 26, 1950, Serial No. 140,708
1 Claim. (Cl. 271—3.18)



In a device to receive an endless film wound in a coil, the improvement which comprises a roller disposed within said coil with its axis parallel to the axis of said coil, said roller having a pair of spaced flanges defining between them a film-receiving slot, one of said flanges being substantially larger in diameter than the other and the opposed faces of said flanges being shaped to define a slot progressively narrower toward the axis of the roller and merging near the roller axis at an acute angle, a first guide member mounted adjacent the roller defining a surface substantially parallel to the axis of said coil and adapted to bear against the inner periphery thereof at a point substantially opposite said roller, and a second guide member disposed near said first guide member and defining a surface substantially perpendicular to the axis of said coil, operative to guide said film over and across the convolutions of said coil.

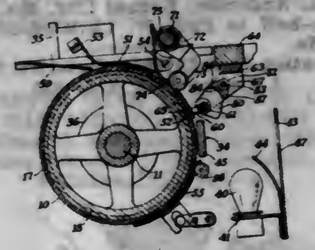
2,656,185
OVERLOAD DRIVE RELEASE
John William Bach, Port Chester, N. Y., assignor to Pitney-Bowes, Inc., Stamford, Conn., a corporation of Delaware
Application March 17, 1951, Serial No. 216,210
7 Claims. (Cl. 271—41)

1. Separating and advancing means for taking one workpiece at a time from a stack of sheet-like workpieces and for feeding the same forward to be worked upon comprising a starting roller; means for driving said roller in a forward feeding direction; an abutment having a surface spaced from the surface of the roller to



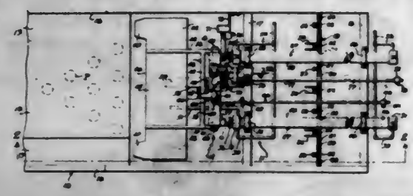
retard all but the one workpiece to be advanced by the starting roller; and means for automatically disconnecting said roller from its drive when workpiece resistance to roller rotation exceeds a predetermined value.

2,656,186
DOCUMENT STRAIGHTENING MEANS FOR PHOTOGRAPHIC COPYING APPARATUS
Norman J. Rosenburgh, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 29, 1950, Serial No. 203,342
10 Claims. (Cl. 271—53)



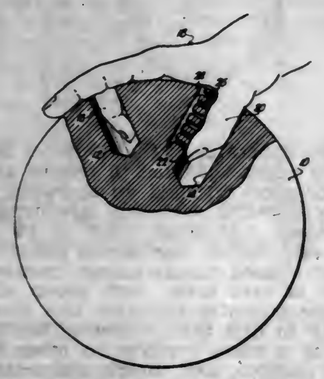
1. In an apparatus of the character described, advancing means adapted to receive and move a discrete sheet through an operating station, means cooperating with said advancing means for orienting said sheet prior to its advance through said station, said means comprising two groups of aligned fingers spaced transversely of the path of said sheet, each group of fingers being independently rotatable and biased into a position to halt the advance of the foremost portion of a sheet received in other than an oriented position, and means cooperating with said advancing means and one of said groups of fingers for rotating said sheet into an oriented position and for moving said sheet against said fingers, escapement cams operatively connected to each of said groups of fingers and movable therewith, and an escapement pallet adapted to engage said cams for maintaining said fingers in said sheet halting position and for releasing said cams simultaneously to permit said fingers to be displaced from said position upon engagement of both of said groups of fingers by the leading edge of said sheet.

2,656,187
PIN SWEEPING DEVICE
Walter Blair, Detroit, Mich.
Application November 15, 1949, Serial No. 127,442
3 Claims. (Cl. 273—54)



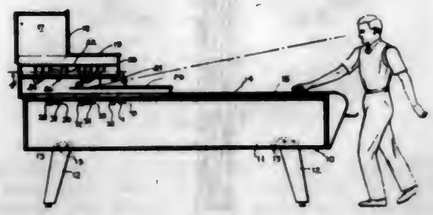
1. A pin sweeping apparatus for a bowling alley, comprising a reciprocatory member reciprocably mounted above said alley, a reciprocatory fluid pressure motor having a reciprocable piston operatively connected to said member to reciprocate said member, a pin sweep pivotally mounted on said reciprocatory member and swingable thereon between approximately horizontal and vertical positions, a sweep retracting device responsive to the arrival of said sweep at a predetermined position in its rearward stroke for effecting raising of said sweep from its vertical to its horizontal position, a locking appliance arranged to temporarily lock said sweep in said vertical position, and releasing mechanism responsive to the arrival of said sweep at a predetermined position in its rearward stroke for unlocking said locking appliance.

2,656,188
BOWLING BALL GRIP STRUCTURE
Vernon L. Anderson, Kansas City, Mo., assignor of one-half to Paul W. Christensen, Kansas City, Mo.
Application April 30, 1951, Serial No. 223,786
3 Claims. (Cl. 273—63)



3. In a bowling ball, a spherical body having at least one elongated finger-receiving cavity, at least one vent opening, and a row of lateral passages interconnecting the opening with the cavity and disposed longitudinally of the latter, certain of the passages registering with the cavity at a zone of finger contact to present an anti-slip, finger-engaging surface within the cavity, other of the passages registering with the cavity remote from said zone to present venting means for the cavity.

2,656,189
AMUSEMENT GAME APPARATUS OF THE SHUFFLEBOARD TYPE
Duane W. Price, Los Angeles, Calif., assignor to Rock-Ola Manufacturing Corp., Chicago, Ill., a corporation of Illinois
Application November 15, 1951, Serial No. 256,409
7 Claims. (Cl. 273—126)



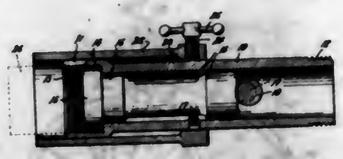
1. An amusement game apparatus comprising an opaque playing surface over which a playing piece is propelled, an opaque panel above and in spaced relation with respect to the playing surface, a plurality of light producing elements carried by and extending from the under surface of said panel, a refractor structure beneath and in parallel spaced relation with respect to said panel, a reflector panel arranged in a horizontal position between the refractor structure and the playing surface, and means for energizing said light producing elements, said light producing elements producing an illusion of being positioned upon the playing surface when the reflection of said elements is reflected off said reflector panel.

2,656,190
TOOL-MOUNTING ARBOR
George J. Towle, Walnut Creek, Calif.
Application September 23, 1949, Serial No. 117,306
2 Claims. (Cl. 279—2)



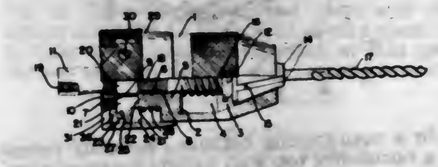
1. For use with a driven mandrel shaft having a tool-attaching end portion providing an axial bore, a tool-mounting arbor comprising a tubular element having a radially expansible end part extendable into the shaft bore in complementary relation thereto for its terminal gripping expansion therein and having an intermediate part formed and arranged for its complementary centering engagement in the free end of the bore, a member longitudinally adjustable in the bore of the tubular member for grippingly expanding the first part in the shaft bore while said intermediate part of the element is operatively engaged therein, and a releasable means directly reactive between the element and the member to positively effect and maintain the operative disposal of the second member.

2,656,191
PIPE NIPPLE CHUCK
Albert L. Fladung, Westminster, Colo.
Application June 30, 1952, Serial No. 296,427
4 Claims. (Cl. 279—7)



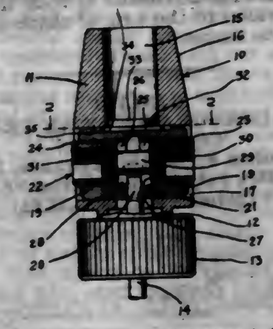
1. A pipe nipple chuck for use with a die-stock comprising: a tubular barrel; a cup-shaped, internally-threaded socket formed on the outer extremity of said barrel to receive a piece of pipe; a die-stock guide sleeve slidably mounted on said barrel so that it may be projected outwardly beyond the outer extremity of said barrel to receive said die-stock; means carried by said guide sleeve and engaging said barrel to lock the former in any desired longitudinal position on the latter; a plunger slidably mounted in said tubular barrel; and means carried by said barrel and acting against said plunger to force the latter against the extremity of the piece of pipe in said cup-shaped socket.

2,656,192
CHUCK
Peter P. Hepp, Beaumont, Calif.
Application April 28, 1952, Serial No. 284,786
10 Claims. (Cl. 279—56)



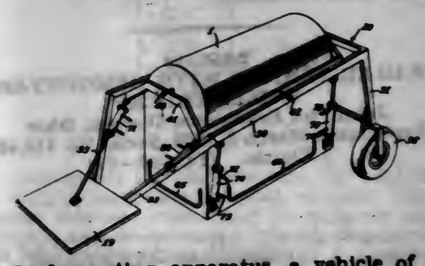
1. A chuck comprising a hollow body having its front end formed internally with a circumferentially extending cam surface, a block mounted in the rear portion of said body and having a rearwardly projecting neck and a bore extending longitudinally through the block, jaws in the front end portion of said body moved to a gripping position by the cam surface during rearward movement of the body along the jaws, a plunger passing longitudinally through said bore into said body and engaging rear ends of said jaws, a spring about the portion of the plunger within the body engaging said block and urging the block and the body rearwardly, said plunger having a portion within the bore threaded, said neck being formed with a recess and with side openings leading from the recess, latches in said recess formed with threads for gripping the threaded shaft and having shanks extending outwardly through the side openings, a collar fitting about said neck and slidable longitudinally thereon and formed with side openings into which said shanks project, pins mounted transversely of said shanks and located in the side openings of the collar, a spring urging said collar rearwardly, and cam surfaces associated with said collar engaging said pins and acting thereon to move the latches to a releasing position when the collar is shifted forwardly.

2,656,193
JAW KEYING MEANS FOR CHUCK DEVICES
Louis Irrgang, Jersey City, N. J., assignor to Ettco Tool Co., Inc., Brooklyn, N. Y., a corporation of New York
Application November 30, 1951, Serial No. 258,180
10 Claims. (Cl. 279—66)



1. A chuck device comprising a tubular chuck body, a pair of tool engaging jaw members mounted in and movable axially of a transverse bore in said body, a left and right hand screw element in threaded engagement with said jaws for moving said jaws toward and from each other in gripping and releasing a tool, said jaws having alined key grooves in the outer surface thereof and communicating at adjacent surfaces of the jaws, the upper portion of said body having a tapered bore communicating with said transverse bore, a key element, said key element having a disc portion arranged in the tapered bore of said body, and said element having a key bar arranged in said transverse bore and operating in the key grooves of said jaws to key the jaws against rotation in said body.

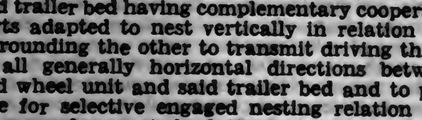
2,656,194
HARVESTER WITH AUTOMATIC LEVEL MAINTAINING APPARATUS
Albert O. Saulsbury, Ridgely, Md.
Application February 7, 1950, Serial No. 142,911
2 Claims. (Cl. 280—6)



2. In harvesting apparatus, a vehicle of the tractor drawn type including a vehicle frame, a vining harvester for peas, beans, etc., of the type which operates with optimum efficiency when level, a frame intermediate said harvester and vehicle frame, coaxial trunnions tiltably suspending said intermediate frame from said vehicle frame, coaxial trunnions tiltably suspending said harvester frame from said intermediate frame, the axes of said trunnions being perpendicular to one another and offset respectively with reference to the corresponding axes of equilibrium of the suspended structures, hydraulic means reacting between said vehicle frame and the harvester on the overbalanced side of the latter with respect to its axis of suspension, other hydraulic means

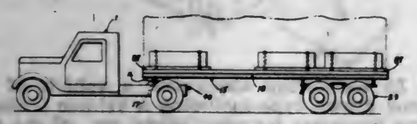
reacting between said vehicle frame and said intermediate frame on the overbalanced side of the latter with respect to its axis of suspension, control means for said first mentioned hydraulic means mounted on said harvester to rock therewith on an axis parallel to its axis of suspension and control means for said other hydraulic means mounted on said harvester to rock therewith on an axis parallel to the axis of suspension of said intermediate frame.

2,656,195
INTERCHANGEABLE DUAL TRAILER COUPLING PIN
William E. Martin, Kewanee, Ill.
Application July 15, 1948, Serial No. 38,837
7 Claims. (Cl. 280—33.05)



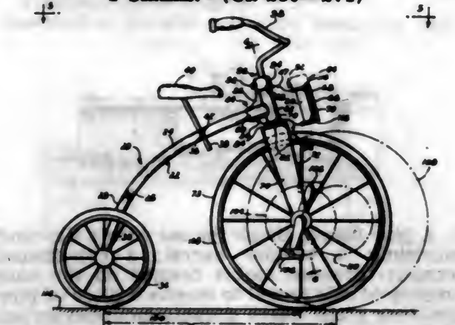
1. An interchangeable and bodily reversible dual coupling member for use in operatively connecting a pair of fifth wheels carried by two vehicles with one fifth wheel inverted with respect to the other and disposed in 180° relationship with respect thereto, comprising an independent and bodily reversible unit having a pair of identical hitch pins connected in coaxial relationship with the operative hitching ends of said pins disposed oppositely and outwardly, and an annular disc connected between said pins and positioned in a plane at right angles with respect to said pin axes, one of said hitch pins being adapted for releasable hitching connection with one of said fifth wheels, the other of said hitch pins being adapted for releasable hitching connection with the other of said fifth wheels, said annular disc and pins together comprising freely rotatable means interposed between said fifth wheels for movement relative to either, and said annular disc comprising stabilizing means sandwiched between both of said fifth wheels to counteract tilting of said pins under operative load hauling conditions.

2,656,196
TRAILER VEHICLE WITH DEMOUNTABLE WHEEL TRUCKS
John Phil Fellabaum, Warren, Ohio
Application March 8, 1950, Serial No. 148,407
5 Claims. (Cl. 280—81)



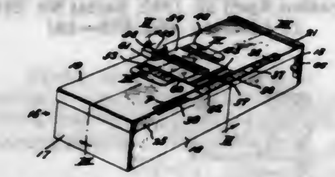
1. A trailer construction, comprising a trailer bed for carrying a load, and a plurality of interchangeable stable multiple-wheel units each having a bed supporting surface, any wheel unit and said trailer bed having complementary cooperable parts adapted to nest vertically in relation one surrounding the other to transmit driving thrust in all generally horizontal directions between said wheel unit and said trailer bed and to provide for selective engaged nesting relation and disengaged separated relation by vertical relative movement between said trailer bed and said wheel unit.

2,656,197
MULTIPLE STEERING HEAD TRICYCLE
Benjamin F. Leber, Chicago, Ill.
Application August 25, 1949, Serial No. 112,260
4 Claims. (Cl. 280—274)



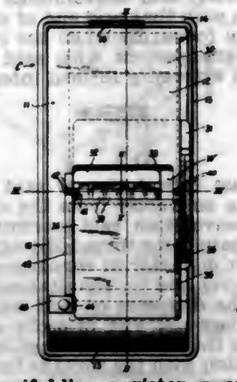
4. A cycle frame having a forepart comprising a pair of mating plates welded together and affording front and rear holes adapted selectively to accommodate a steering post and also affording a socket extending rearward from the rear hole to accommodate the forward end of a backbone member.

2,656,198
REGISTER APPARATUS FOR PRODUCING MANIFOLDED BUSINESS RECORDS
William Dale Winders, Columbus, Ohio
Application November 27, 1950, Serial No. 197,739
6 Claims. (Cl. 282—5)



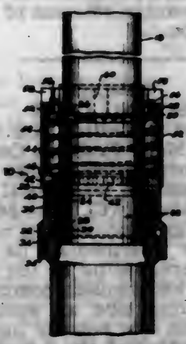
1. In a manifolding register; a casing formed with a horizontal top wall having an inscription-producing opening formed therein; a carbon paper-carrying frame removably positioned in said casing; spooling devices removably and rotatably supported in longitudinally spaced relation in the ends of said frame, said devices holding a record-receiving and inscription-transferring carbon paper webbing, rotation of said devices serving to move said webbing under the opening in the top wall of said casing; guide means, including a table plate, carried by said frame and along which the webbing is advanced longitudinally and horizontally when being passed from one of said spooling devices to the other; a base panel arranged below said guide means and forming a part of said frame, said base panel being spaced from said guide means and table plate to form a pocket in the frame which opens to one side of said casing; a movable clamping plate carried by the top of said casing, said clamping plate serving to maintain a record member removably positioned between the same and the top wall of said casing in a fixed position, whereby to enable an entry inscription applied to said record member to be manifolded on the juxtaposed webbing and a record sheet occupying said pocket; and manually operated means accessible from the exterior of said casing and removable therefrom for rotating one of said spooling devices and imparting longitudinal movement to the webbing connected therewith.

2,656,199
REGISTER APPARATUS FOR PRODUCING MANIFOLDED BUSINESS RECORDS
William Dale Winders, Columbus, Ohio
Application November 27, 1950, Serial No. 197,740
3 Claims. (Cl. 282—5)



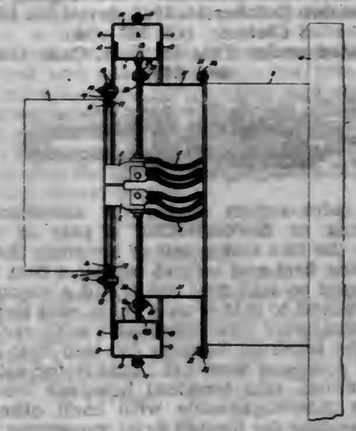
1. In a manifolding register, a casing formed with a top panel, movable clamping means carried by said panel for retaining a free record sheet on said panel in an entry-receiving position, spooling devices rotatably supported within said casing, a carbon inscription-transferring web joined at its ends with said spooling devices, the intermediate portions of said web passing in parallelism with said casing panel and beneath an opening formed in said panel with which the record sheet placed on the top of said panel registers, manually operated latch means for retaining said clamping means in its active position of record sheet clamping, said latch means including an operating stem, and pawl and ratchet means actuated by movement of said stem for imparting incremental movement to said spooling devices and the carbon web joined therewith.

2,656,200
FLUID-TIGHT JOINT
Marshall W. Galliers, Radburn, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application December 30, 1949, Serial No. 135,945
1 Claim. (Cl. 285—122)



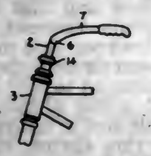
A fluid-tight joint comprising a first tubular member; a second tubular member co-axial with said first member; an annular packing ring disposed about an end of said first tubular member; a shoulder on said second tubular member adjacent to said packing ring; a nut for squeezing said packing ring against said shoulder, said nut having a threaded connection with said second tubular member whereby rotation of said nut varies the extent to which said packing ring is squeezed against said shoulders; a sleeve disposed about said first member; a plurality of projections on said first member received within notches in said sleeve at the end of said sleeve remote from said nut for preventing relative rotation of said sleeve and first tubular member; and a helical spring disposed about said first tubular member between said nut and said sleeve end and surrounded by said sleeve with one end of said spring anchored to said nut and with the other end of said spring anchored to said sleeve end for urging said nut in a direction for squeezing said packing ring against said shoulder, said sleeve being axially movable toward said nut to free said sleeve from said projections thereby permitting relative rotation of said sleeve and first tubular member, said sleeve also having a plurality of axially extending internal grooves to permit said sleeve to be moved axially away from said nut upon rotative alinement of said grooves with said projections.

2,656,201
ADJUSTABLE JOINT STRUCTURE
Nathan Swerdlow and Harry L. Chamberlain, Philadelphia, Pa., assignors to General Electric Company, a corporation of New York
Application July 6, 1951, Serial No. 235,538
2 Claims. (Cl. 285—162)



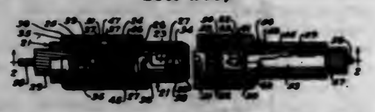
1. Adjustable sealing structure for conjoining an axially-extending tubular member with a flanged member constituted by a flange and a generally axially-extending tubular body portion, said sealing structure comprising a continuous channel member having a web portion and a pair of flange portions arranged with one of said flange portions secured about one end of said tubular member, and a continuous sealing member disposed in said channel with the extremities thereof in sealing engagement with the flange portions of said channel, said sealing member being movable within said channel in a transverse direction and being disposed in telescopic sealing relationship with respect to the flange of said flanged member, said flanged member and said sealing member being relatively adjustable in a direction axially of said sealing member, said tubular body portion of the flanged member being transversely spaced from said sealing member throughout the entire axial extent of said tubular body portion.

2,656,202
BICYCLE HANDLE BAR FORK
Homer L. Mueller, Cleveland, Ohio, assignor to The Cleveland Welding Company, Cleveland, Ohio, a corporation of Ohio
Application February 10, 1949, Serial No. 75,573
11 Claims. (Cl. 287—58)



1. The combination of inner and outer tubular members arranged in terminal telescopic engagement, said inner member being terminally slotted, a cylindrical expander member within said inner member, complementary inclined seats on said inner and expander members whereby upon relative axial movement thereof such slotted terminal portion may be expanded into gripping engagement with the inner wall of said outer member, means extending laterally from said expander member through the wall of said inner member, and a nut threaded on said inner member and engaged with said last named means for effecting such relative axial movement.

2,656,203
CABLE AND HOUSING CONNECTOR
Clarence Walton Musser, Philadelphia, Pa.
Application October 14, 1948, Serial No. 54,541
8 Claims. (Cl. 287—76)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A quick-action device for simultaneously connecting or disconnecting a pair of cables, ropes or the like and a pair of housings therefor; comprising first and second cables; a first terminal secured to said first cable and a second terminal secured to said second cable, said terminals being detachably interengageable with each other; a first terminal housing for said first terminal and a second terminal housing for said second terminal, said terminal housings being detachably interengageable with each other and each providing for limited axial movement by the respective terminals and cables relative to the corresponding terminal housings; first and second cable housings for the first and second cables, respectively, each immovably secured to the corresponding one of said terminal housings; and means which bars axial movement of said first terminal and said first cable relative to said first terminal housing at all times except when said first and second terminals are locked together.

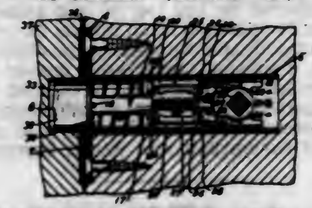
2,656,204
WIRE NUT
John H. Biemstrand, Minneapolis, Minn., assignor of one-half to Frederick W. Nyquist, Minneapolis, Minn.
Application November 10, 1950, Serial No. 195,090
2 Claims. (Cl. 287—78)

1. A device for connecting the ends of a plurality of wires, comprising an elongated coil of resilient wire of a quality capable of forming threads upon said plurality of wires when in pressing contact therewith and being accessible for the reception of wire ends from both ends thereof, the axial opening through the coil being of greater diameter at one end than at the other and the coil including convolutions of successively reduced diameter intermediate the ends of greater and smaller diameter, said convolutions being coiled in a direction such that said end of greater diameter will move forwardly when the coil is turned in threaded engagement with said plurality of wires, and an extremity formed integrally at the



end of the last convolution of said smaller end and extending outwardly from the circle defined by said last convolution, said extremity providing a tangential handle for threadedly advancing said end of greater diameter in engagement with said plurality of wires and for simultaneously increasing slightly the diameter of said convolutions at the smaller diameter end whereby upon release of said handle the coil will contract in augmented gripping relation with the threads formed on said plurality of wires.

2,656,205
DEAD BOLT LATCH
Irving J. Fletcher, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a corporation of Connecticut
Application August 11, 1949, Serial No. 109,688
15 Claims. (Cl. 292—61)

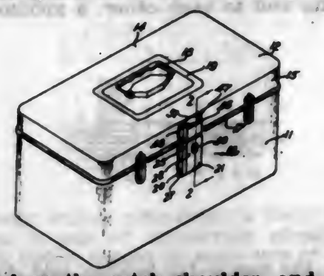


1. A latch mechanism comprising a latching bolt, a striker plate to receive said bolt when in latching position, means for preventing movement of said bolt to an unlatched position, the said means being operable upon rotation of the bolt to permit movement thereof to an unlatched position, and cooperating means on said plate and bolt for preventing rotation of the bolt when in latched position.

2,656,206
SPRING LOCK
Herbert M. Piker, Hamilton, Ohio, assignor to The Hamilton Metal Products Company, Hamilton, Ohio, a corporation of Ohio
Application June 21, 1948, Serial No. 34,219
3 Claims. (Cl. 292—86)

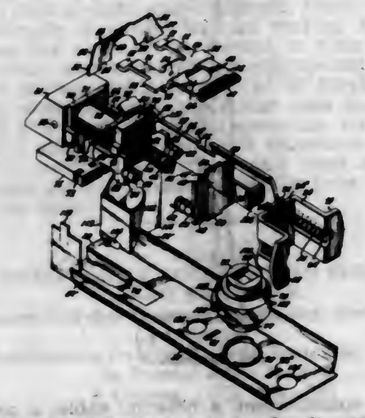
1. In a spring lock including a catch having a latching shoulder intermediate its ends and an actuating cam terminating at the shoulder, the combination of a lock housing comprising an outwardly spaced front and an apertured top, a spring latch within said housing having the body portion thereof adjacent the housing front and mounted at its lower end for flexing movement inwardly of said housing front, the spring latch having its upper end portion upwardly and inwardly inclined with an aperture in said inwardly inclined portion forming a latching bar at the upper end of the latch to be below the housing top and extend laterally of the top opening, said

latch aperture being aligned with the housing top aperture through which aligned apertures the catch passes to have the actuating cam thereof engage the latching bar for inwardly flexing the spring latch until its latching bar is



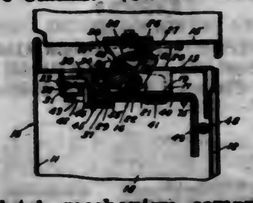
above and on the catch shoulder, and a finger piece carried by the spring latch intermediate its ends projecting through the latch housing front for manual engagement for inwardly flexing the spring latch to disengage its latching bar from the catch shoulder.

2,656,207
LATCH WITH DEAD LOCKING MECHANISM
Fred J. Russell, Beverly Hills, Raymond W. Dietrich, Bell, and George B. Selovieff, South Gate, Calif., assignors, by mesne assignments, to Loyola University Foundation, Los Angeles, Calif., a nonprofit corporation of California
Application January 28, 1950, Serial No. 140,986
4 Claims. (Cl. 292—169)



1. In a dead locking tubular latch comprising a casing having a pair of longitudinally separable mating parts forming a single common chamber of uniform cross-sectional area with end and intermediate spacing partitions extending across the casing, automatic latch bolt actuating components and manually responsive latch bolt actuating components, the combination of a main latch bolt including a slide comprising a pair of spaced elements lying slidably against opposite sides of the casing and a return spring means between the casing and said latch bolt, an auxiliary latch bolt reciprocably mounted in the casing and including a rod slide member comprising a pair of legs lying within said spaced elements, and spring return means between the casing and said auxiliary latch bolt, a locking arm having one end apertured and in a position loosely connected to the casing and comprising a pair of fingers at the opposite end lying one adjacent and operably engageable with each leg, a pair of ears lying one adjacent and operably engageable with each of said spaced elements, a tilting spring between a portion of said arm and the main latch bolt, said fingers having a spring-tilted position in abutting relation with the main latch bolt when the auxiliary latch bolt is depressed and a released relation with the main latch bolt when the auxiliary latch bolt is released.

2,656,208
DOOR LATCH STRUCTURE
George Jansenis, Detroit, Mich.
Application April 2, 1951, Serial No. 218,825
5 Claims. (Cl. 292—216)



1. Door latch mechanism comprising a support plate formed of sheet metal bent to provide a longitudinally extending channel having side and bottom walls, an end closure for said channel having a hole therein, said plate being secured to the inner surface of an edge flange of a door, said flange having an opening therethrough in registry with said channel, a pivot pin spanning the side walls of said channel, a rotary latch bolt in said channel rotatably mounted on said pin and having portions extending through said opening, a block in said channel between said end closure and said bolt, a pin extending from said block and passing through the hole in said end closure, a spring surrounding said pin, interlocking serrations on said block and said bolt, the bottom wall of said channel having a slot therein, and an actuating pin on said block extending through said slot for actuation by manually operated latch release means.

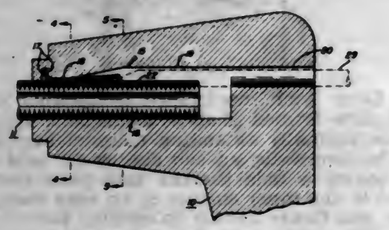
2,656,209
SNAP STRAP SEAL
Ernest A. Conaway, Sr., Chicago, Ill., assignor to Ernest A. Conaway, Jr., Brooklyn, N. Y., Dorothea Conaway Jennings, Lake Wales, Fla., and Patricia Conaway Miller, Oak Park, Ill.
Application December 31, 1949, Serial No. 136,229
10 Claims. (Cl. 292—319)



6. A seal adapted to be affixed to a strap member and comprising a female member and an open ended cylindrical male member, said female member having an annular-shaped recess therein open at one end and formed with an annular outwardly extending flange, said open ended cylindrical male member having a portion of a size to enter and be positioned in said annular recess and formed with an outwardly extending annular flange, cooperating means on adjacent portions of said male member and said female member for interlocking the same together, said male and female members being complementally formed

and so proportioned that as the ends of the strap member to which the male and female members are adapted to be affixed are folded over in interlocked relationship and are interlocked, the faces of the opposite ends of the strap are in substantial abutting relationship, and said outwardly extending annular flanges formed on each of the male and female members including prongs formed at the outer periphery thereof and adapted to be affixed to the strap, whereby in the interlocked position, the prongs of the annular flanges are prevented from being tampered with.

2,656,210
HANDLE
Edward T. Kump, Euclid, Ohio
Application September 23, 1950, Serial No. 186,457
2 Claims. (Cl. 292—353)



1. A handle for use with a shank having transverse teeth, comprising a handle body having an abutment wall and a backing wall defining a shank receiving recess extending inwardly from the rearward end of said handle body, a tool receiving aperture longitudinally parallel but spaced from said shank receiving recess extending from the forward end of said handle body into said shank receiving recess, a spring-like member having a body portion and an outturned end, said body portion fitted in said shank receiving recess adjacent said abutment wall with said outturned end extending toward said backing wall to receive a shank therebetween, said outturned end having first and second spring teeth with a groove therebetween on the extremity thereof with said spring teeth engageable with transverse teeth on a shank and with said groove spaced from such shank, said spring teeth camming past said shank teeth upon relative longitudinal movement of said handle body and a shank in a given direction to permit a shank to be received in the shank receiving recess of said handle body, said shank incapable of movement completely through said handle body because of non-alignment of said tool receiving aperture and shank receiving recess, said spring teeth effecting interlocking engagement with transverse teeth on a shank to prevent relative longitudinal movement of said handle body and a shank in a direction opposite to said given direction, said tool receiving aperture being substantially aligned with said groove whereby a pointed tool may be longitudinally inserted from the forward end of said handle body to engage said groove and cammingly disengage said outturned end and said shank solely by longitudinal movement of said tool.

2,656,211
MAGNETIC INSTRUMENT FOR LIFTING HAIRPINS
Alexis Zachary, New York, N. Y.
Application November 30, 1950, Serial No. 198,431
3 Claims. (Cl. 294—65.5)

1. A casing having a magnet therein, one end of the casing being open, the magnet having an end adjacent to said open end, a disk at said end, means rigidly engaged with said disk and slidably engaging said magnet and said casing for movably connecting the disk and magnet to the casing and to each other, a yielding spring



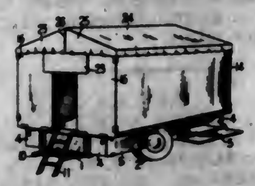
adjacent the means for holding said disk adjacent said end of the magnet, a rod in the casing connected to the magnet, and a lever joined to the rod and projecting to the outside of the casing for withdrawing the magnet and the disk into the casing for tensing said spring and separating the magnet from the disk.

2,656,212
AUTOMATIC TONG EXTRACTING AND RESETTING MECHANISM
Ernest E. Eckstein, Elgin, Oreg.
Application August 5, 1952, Serial No. 302,707
10 Claims. (Cl. 294—110)



1. In combination, a hoisting cable, a pair of load lifting tongs, a housing, a bar contained vertically therein and connected at its upper end to the cable, another bar contained vertically in the housing and having a load lifting connection at its lower end with the tongs; said bars being independently movable endwise in the housing and relative to each other between an extended and a retracted relationship, and said housing having limited movement along the bars, means associated with the bars for effecting a load lifting connection between them when fully extended relative to each other and providing slack in the said load lifting connection when they are not in fully extended relationship, a tie member connecting the housing with a jaw of the tongs for its extraction from a load, and latch means operable to effect a load lifting connection between the first mentioned bar and said housing when the said bars are in a slack producing relationship, through which pull of the hoisting cable can be applied to said jaw of the tongs for its extraction.

2,656,213
CAMP TRAILER
Harold Anderson, Lansing, Mich.
Application November 14, 1950, Serial No. 195,606
1 Claim. (Cl. 296—23)



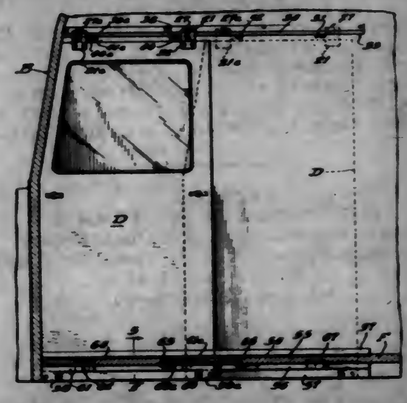
A camp trailer comprising a body with sides thereon, a pair of supporting wheels on said body, a locker affixed to each side of said body forwardly of said wheels, a locker affixed to each side of the body rearwardly of said wheels, all of said lockers extending outwardly beyond the outermost parts of their adjacent wheels, a longitudinally extending rail affixed to the outer portions of the tops of each pair of lockers upon each side of said body, side wall members respectively disposed at the respective sides of the body, each of the side wall members having a part hingedly connected to the side of said body inwardly of said lockers and adapted when the structure is erected to lie upon an adjacent rail, a side wall part secured to each hinged part and adapted when the structure is erected to extend vertically from the hinged part above the outer portions of the tops of the lockers, and a partial end wall affixed to each end of each side wall part at right angles thereto, a pair of gables removably mounted on said vertical end walls when the structure is erected, a ridge pole removably and centrally interconnected between said gables, and a roof cover of fabric removably mounted upon said ridge pole and gables, said side wall members, when the structure is closed adapted to have their respective side wall parts overlie one another and their respective hinged parts extending vertically from the sides of the body.

2,656,214
AUTOMOBILE BODY HAVING PIVOTED END SECTIONS
Marcel Antoine Clément Alamagny, Saint-Cloud, France
Application October 5, 1945, Serial No. 620,568
In France April 7, 1945
2 Claims. (Cl. 296—28)



1. In a vehicle, a chassis having opposite ends, a floor, seats carried by the floor, a fixed body portion disposed centrally of the chassis and including opposite marginal edges, two oppositely facing shell-like body members each including a lower marginal portion, an outer end, sides, top and inner marginal edges and each having at least one window therein, transverse pivots at the opposite ends of the chassis pivotally interconnecting the body members to the chassis adjacent the lower marginal portions at the respective ends of the body members so that in closed position the lower marginal portions along the sides of each body member abut the floor outwardly of the fixed body portion and the respective inner marginal edges of each body member abutting the opposite marginal edges of the fixed body portion, the said body members being swingable upwardly relative to the floor away from each other and about the transverse pivots to expose the floor and seats so as to provide unimpeded access to the seats.

2,656,215
SLIDING DOOR HANGER AND CHECK DEVICE FOR TRUCKS
Paul D. Harvey, Chicago, Ill.
Application August 9, 1950, Serial No. 178,541
8 Claims. (Cl. 296—47)

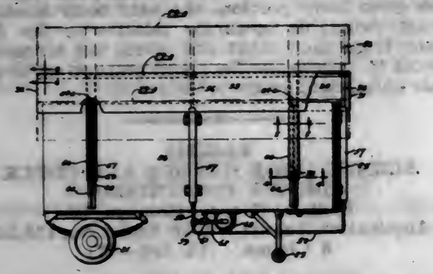


1. In a vehicle having a door opening, a door slidably movable to and from closing position relative to the door opening, a plate secured to said door at the upper marginal edge thereof, a stub shaft carried by said plate, a roller rotatably mounted on said stub shaft, a track carried by the vehicle frame and along which said roller may move in the course of movement of the door to and from opening and closing position, said plate having an opening therein, a yieldable finger having a part disposed in said opening, means securing said finger to said plate, and a block on said track engageable by said resilient finger when the door is in a predetermined position relative to the door opening whereby the finger is placed under tension and is effective to retain the door in said predetermined position.

2,656,216
ADJUSTABLE ROOF STRUCTURE FOR LOAD-CARRYING VEHICLES
Louis Bobroff, Philadelphia, Pa.
Application May 27, 1949, Serial No. 95,601
2 Claims. (Cl. 296—137)

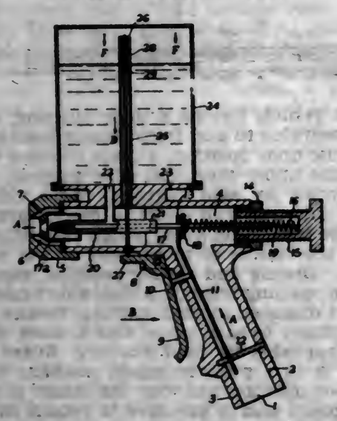
1. In a load-carrying vehicle having a floor and having generally upright side-walls and a front-wall immovably fastened together; a vertically adjustable roof-structure comprising a roof-unit having a generally horizontal form-retaining top-wall and having panels extending downwardly from the edges of said top-wall in over-lapping relationship to said side-walls and front-wall, a plurality of spaced generally vertical supporting rods having their upper ends fastened to said roof-unit inside said panels, piston-and-cylinder means mounted on said walls for

synchronously raising and lowering said rods thereby to vary the height of said roof-unit, and means for maintaining said roof-unit in horizontally-fixed relationship to said walls, said last-mentioned means comprising interlocking generally C-shaped channel members carried by said walls and said panels to permit said panels to



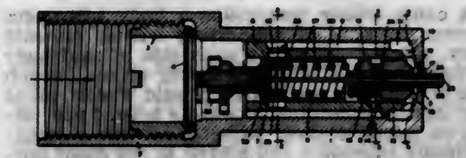
move vertically while restraining them from horizontal movement relative to said walls, said channel members having springs operatively mounted therewithin and constructed and arranged to exert downward pressure upon said roof-unit when said roof-unit is in elevated position.

2,656,217
LOW-PRESSURE SPRAY GUN
André Reche, Aix-en-Provence, France
Application January 31, 1951, Serial No. 208,778
In France July 27, 1950
1 Claim. (Cl. 299—96)



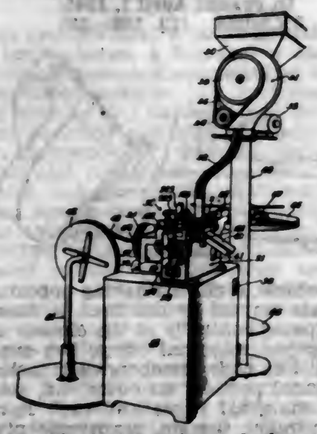
In a spray gun of the kind including a gun body having passage means and an outlet nozzle for the spraying fluid, a reservoir for the liquid to be sprayed mounted on the gun body, an outlet valve for the sprayed liquid arranged in the passage means and communicating with the reservoir, a longitudinally slidable valve stem for the outlet valve arranged in the passage means and spring-urged into closed position, an inlet valve for the reservoir arranged on the body and forming a communication between the passage means and the interior of the reservoir, and a movable valve member for the inlet valve spring-urged into open position; the features of a two-arm lever pivoted intermediate its ends to the gun body and serving as an operating handle, an abutment member on the outlet valve stem, an operating rod movably mounted in the gun body and arranged to contact said abutment member for longitudinal movement of the stem, and a push rod carried by the operating rod, one arm of the pivoted two-arm lever being arranged to bear against the movable inlet valve member and the other arm of the two-arm lever being arranged to bear against the push rod for control of the outlet valve stem, whereby movement of the two-arm lever permits simultaneous operating of the inlet and outlet valves.

2,656,218
SPRAY NOZZLE
John F. Campbell, Euclid, Ohio
Application July 21, 1949, Serial No. 105,975
25 Claims. (Cl. 299—118)



5. In a nozzle having a fluid intake end and an exit orifice end, a small channel leading from such intake end to such exit end and adapted to deliver a swirling fluid flow at such orifice, an exit valve member adapted to seat in and close such orifice, a second much larger channel leading from such intake end to such exit end and adapted to deliver a swirling fluid flow at such orifice, a second axially reciprocable valve member adapted to close said second channel, means joining said two valve members for reciprocation in unison, and resilient means urging said second valve member to close said second channel and seat said exit valve member in such orifice, said second valve member being arranged relative to said second channel for predetermined movement to open said exit valve member to a limited extent prior to initiating opening of said second channel, and said second valve member having much larger area subject to fluid pressure thereagainst than said exit valve member.

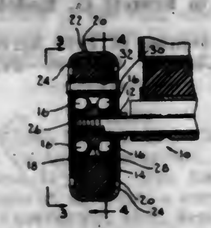
2,656,219
METHOD AND MACHINE FOR MANUFACTURING APPLICATORS
John H. Bent, Chicago, Ill., assignor to Barton Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application October 14, 1948, Serial No. 54,544
11 Claims. (Cl. 300—21)



8. The method of forming a device of the character described which comprises successively

feeding a continuous supply of a resilient compressible material, severing said material into predetermined lengths to form individual bodies of said material, pre-compressing each body of said resilient compressible material, looping one end of a wire about each body while the latter is held under said pre-compression, and thereafter distorting and flattening said loop into confining engagement with said body.

2,656,220
WHEEL HAVING CUSHIONED TREAD
John S. Caldwell, Milwaukee, Wis., assignor to Globe-Union Inc., Milwaukee, Wis., a corporation of Wisconsin
Application May 26, 1950, Serial No. 164,560
1 Claim. (Cl. 301—5.7)



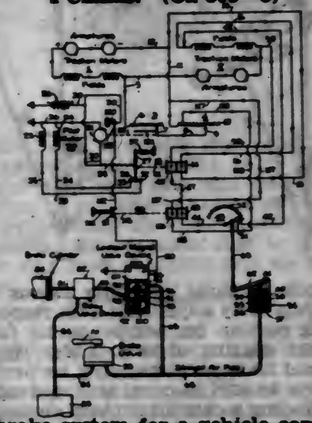
A wheel comprising a hub providing an inner race for an anti-friction bearing, a cylindrical member comprising an outer race, balls between said hub and said cylindrical member to mount the same for coaxial relative rotation, an annular resilient cushion ring having a thickness substantially equal to the length of said cylindrical member mounted thereabout, a metal tread mounted on the periphery of said ring, said ring being radially compressible by said tread in normal usage to increase deadening action of vibrational noises and more completely absorb tiring operational vibrations, plates positioned on the sides of said ring and extending over the ends of said cylindrical member to directly engage said balls and receive axial thrust forces therefrom, said plates extending toward but spaced from said metal tread to provide lateral support for said ring and fastening members secured to such plates and passing through said ring to hold said plates in place.

2,656,221
VEHICLE WHEEL
Antonio E. Frandi, Mexico City, Mexico
Application June 1, 1950, Serial No. 165,429
5 Claims. (Cl. 301—13)



1. A vehicle wheel for mounting a pneumatic tire, comprising front and rear half sections each provided with a tire bead receiving rim portion, a plurality of spokes fixed at their outer ends to the rear wheel section, a central wheel hub supported by the inner ends of said spokes, studs extending from the wheel spokes and from the rear wheel rim portion, the studs of the rear wheel rim portion extending through openings in the rim portion of the front wheel section, a plurality of lugs engaging the front wheel section and the spokes and having openings receiving the studs, and lug nuts engaging the studs to draw the wheel sections together.

2,656,222
COMBINED PNEUMATIC AND DYNAMIC BRAKE APPARATUS
Claude M. Hines, Verona, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application March 26, 1951, Serial No. 217,603
4 Claims. (Cl. 303—3)

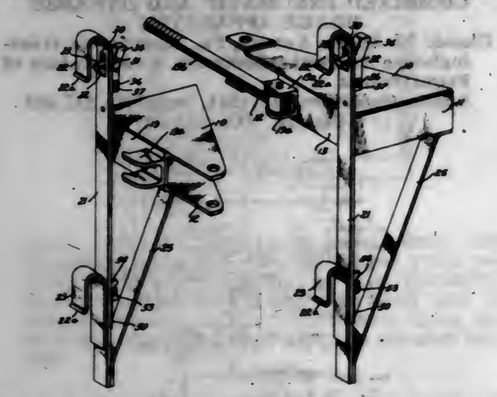


1. A brake system for a vehicle comprising in combination, dynamic brake means generating a dynamic braking current proportional to the degree of dynamic braking attained, a fluid pressure brake control pipe, fluid pressure brake means responsive to control pressure of fluid in said control pipe to effect a fluid pressure brake application in degree corresponding to degree of said control pressure, a straight air pipe, an operator's control valve device operable to establish a degree of pressure in said straight air pipe according to degree of vehicle braking desired, magnet valve means energizable and deenergizable to connect said control pipe selectively either to atmosphere or to said straight air pipe, respectively, a source of electrical energy independent of said dynamic brake means, relay means comprising switch means actuable to open and closed positions to connect and disconnect said magnet valve means to and from said source of electrical energy, respectively, comprising bias means urging said switch means toward its open position, and comprising two relay coils electrically connected for energization by dynamic braking current and operatively connected to said switch means to oppose action of said bias means, and rheostat means responsive to pressure of fluid in said straight air pipe to impose electrical resistance to flow of dynamic braking current through one of said two relay coils in amount according to degree of said pressure.

2,656,223
ADJUSTABLE SCAFFOLD CLAMP
Percy Gray, Richmond, Calif., assignor of one-half to William Gray, Washington, D. C.
Application December 14, 1948, Serial No. 65,231
4 Claims. (Cl. 304—46)

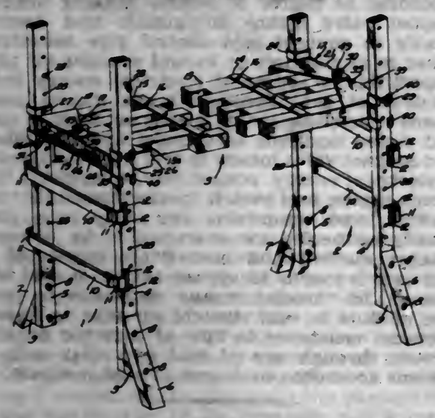
1. Apparatus for securing a vertical ladder and a horizontal platform into a rigid, readily

adjustable scaffold unit comprising a pair of united members of oppositely facing U-configuration for receiving the end portions of the platform therebetween in firm engagement, each of said members also including an integral, vertically extending hanger having a pair of vertically spaced hook portions for seating over the adjacent rungs of said vertical ladder, one of said hook portions being provided with means for locking its supporting rung therein and the other



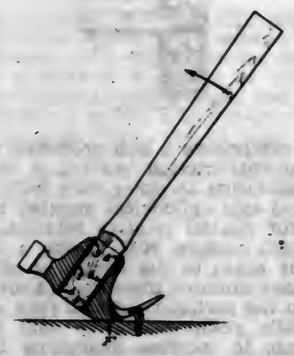
of said hook portions including means whereby it may be relatively adjustable with respect to the other hook portion for compensating for variations in the spacing of said ladder rungs, said other of said hook portions being vertically movable relative to said hanger, and said adjustable means including a cam-like rotary element rotatably mounted on said hanger and engageable with a portion of said other hook portion for limiting vertical movement of the latter.

2,656,224
SCAFFOLD CLAMPING DEVICE
Percy Gray, Richmond, Calif., assignor of one-half to William Gray, Washington, D. C.
Application December 14, 1948, Serial No. 65,232
2 Claims. (Cl. 304—40)



1. A clamp for securing a scaffold platform to a pair of vertically disposed scaffold upright supports comprising a pair of members, each of which includes collar means substantially entirely circling one of said upright supports and releasably secured thereto, superimposed vertically spaced plates secured to said collar means, a web member connecting said plates along an edge thereof, said web member engaging a side portion of said platform and said plates engaging upper and lower surface portions thereof immediately adjacent said side portion, means on one of said members arranged to overlie a portion of the other member, means extending through the plates of each of said members and through the scaffold platform for releasably securing said platform and clamp together, and means mounted for horizontal pivotal movement on one of said members releasably engageable with a portion of the other member whereby said web members may be drawn towards each other.

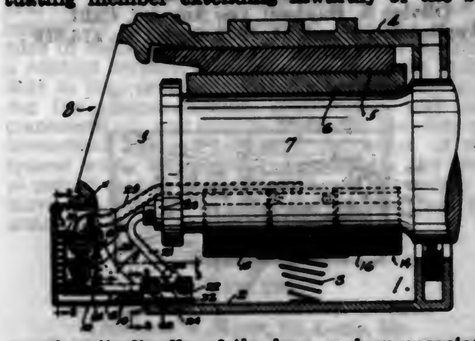
2,656,225
HAND TOOL
Charles Proffer Sayler, Hyattsville, Md., assignor of one-half to Everett G. Redebaugh, Pughtown, Pa.
Application November 16, 1949, Serial No. 127,650
2 Claims. (Cl. 306—20)



1. A tool comprising a metallic head member having an opening therein, a handle member having a non-metallic end portion positioned in said opening and conforming approximately in shape thereto and having its surface spaced slightly from the adjacent surface of the head member opening to provide an annular space defined between the wall of the head opening and the inwardly adjacent surface of the handle member therein, and a continuous layer of deformable, shock-absorbent, rubber-like material in and of substantially the same dimension as said annular space and directly bonded to said surfaces of the metallic head and of the non-metallic end portion of said handle so as to transmit forces of tension, compression, torsion and shear between all adjacent surfaces during use and to distribute stresses generally over said adjacent surfaces.

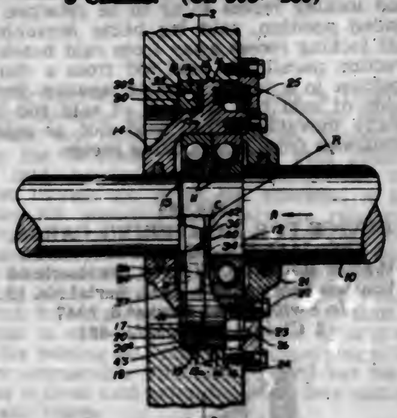
2,656,226
RAILWAY JOURNAL BOX LUBRICATOR STRUCTURE
James J. Hennessy, Chambersburg, Pa., assignor to Hennessy Lubricator Company, Inc., Chambersburg, Pa., a corporation of Delaware
Application February 4, 1950, Serial No. 142,435
12 Claims. (Cl. 308—84)

1. In a railway axle journal lubricator, a box having a top wall for seating the usual journal wedge and bearing, a bottom wall, and a front wall extending between said top and bottom walls, there being an opening in said front wall adjacent said bottom wall, and a lubricant pump positioned in said latter-mentioned opening above the bottom of the box and provided with a pump actuating member extending inwardly of the box



and longitudinally of the box, and an associated operating element disposed to engage the end of a journal in the box.

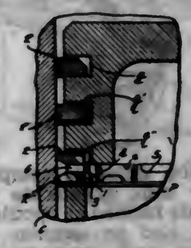
2,656,227
COMPENSATING METALLIC THRUST RING
Peter Dennis Comery, Cooksville, Ontario, Canada, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada, a corporation
Application February 1, 1952, Serial No. 269,513
8 Claims. (Cl. 308—189)



1. A self-aligning bearing having two opposed surfaces, a supporting element between the surfaces for transmitting a compressive load, the supporting element comprising a plurality of blocks, at least one of the blocks being in engagement with one of the surfaces and spaced from the other surface, the said one block having opposite faces inclined to the direction of the compressive load and making sliding contact with adjacent blocks at the said inclined faces, the adjacent blocks being in engagement with the other surface and spaced from the one surface, and means confining the element against expansion in a direction at right angles to the direction of the compressive load.

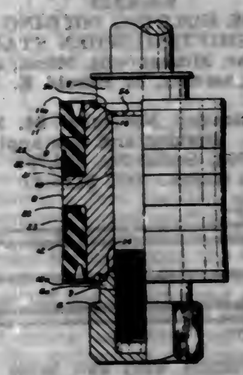
2,656,228
PISTON PACKING RING
Melvin W. Marion, St. Louis, Mo., assignor to Ramsey Corporation, St. Louis, Mo., a corporation of Ohio
Application February 12, 1951, Serial No. 210,536
6 Claims. (Cl. 309—7)

2. In a hollow piston having a slotted oil ring groove with radial top and bottom walls and an axial back wall, the lower portion of the back wall and the inner portion of the bottom wall being cut away around most of the circumference thereof to provide an open bottomed slot through the back of the groove for freely joining the groove with the interior of the piston, an oil ring in said groove of less radial depth than said groove, an expander ring in said groove behind



the oil ring, said expander ring being bottomed on the upper portion of the back wall of the groove and depending into said slot, and a bottoming ring in the groove extending under both rings to project into the open bottom of the slot for supporting the expander ring to prevent the expander ring from dropping into the interior of the piston.

2,656,229
PISTON AND PISTON AND ROD COMBINATION
Crawford K. Stillwagon, Houston, Tex.
Application April 9, 1951, Serial No. 219,966
13 Claims. (Cl. 309—17)
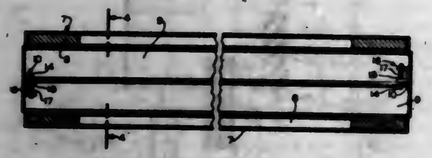


1. A high pressure pump piston comprising a rigid body with an opening therethrough adapted to be received upon and secured to a piston rod, said body having at one end a rigid annular frusto-conically shaped seal and abutment surface, a resilient seal element bonded on the body externally thereof and having at least a portion extending concentrically about the abutment surface, the exposed surface of the seal element adjacent the edge of the abutment surface being shaped similar to the abutment surface but spaced somewhat endwise from the body relative to the general contour of the abutment surface were it extended outwardly so as to be raised relative thereto, the innermost diameter of said portion being spaced outwardly a short distance from the outer diameter of the abutment surface.

2,656,230
PISTON RING ASSEMBLY AND ELEMENTS THEREOF
Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich.
Application September 10, 1951, Serial No. 245,835
9 Claims. (Cl. 309—29)



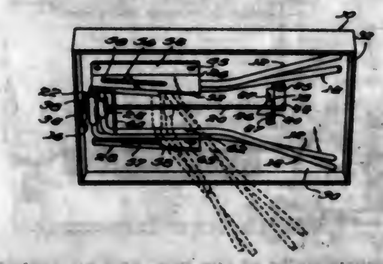
1. A piston ring assembly comprising, axially spaced annular split expansible cylinder wall engaging elements formed of ductile ribbon metal coiled edgewise, and an annular split resilient combined spacer and expander intermediate member formed of ductile ribbon metal corrugated sidewise and disposed radially edgewise between the cylinder wall engaging elements, the bight portions of the corrugations having transverse slits spaced from but adjacent to their inner edges, the bight portions radially outward from said slits being flattened and being in side supporting relation to the cylinder wall engaging elements, portions of the bights below said flattened portions constituting radial thrust abutments coacting with the inner edges of the cylinder wall engaging elements, the said intermediate member being under springable compression with its ends in abutting relation when the assembly is installed in a piston ring groove.

2,656,231
MEANS FOR HOLDING FOLDING TABLES FROM SHIFTING WHEN STACKED
Julius A. Mahr, Minneapolis, Minn., assignor, by mesne assignments, to Harold R. Nielsen, St. Paul, Minn.
Original application November 24, 1950, Serial No. 197,306. Divided and this application October 10, 1951, Serial No. 250,765
1 Claim. (Cl. 311—1)



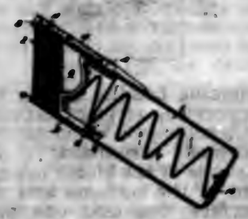
The combination with two table tops, each having a depending rectangular apron, one of the table tops being inverted with the other table top overlying the same and with its apron resting on the apron of the inverted table top and in registration therewith, each table top having in each of diagonally opposite corners of its apron a fixed bracket including side members, a pin mounted in the side members of each bracket for endwise sliding movement, a coiled spring encircling each pin and held by the pin at one of its ends and with its other end engaging one of the side members as a base of resistance and yieldingly holding the pin projected into the coincident corner of the apron of the other table top, the brackets of the two table tops being in the same diagonally opposite corners, whereby, due to the inverted table top, there is a bracket at each of the four corners formed by the two aprons.

2,656,232
FOLDING TABLE
Olivius A. Raphael, Los Angeles, Calif.
Application March 11, 1952, Serial No. 275,910
7 Claims. (Cl. 311—83)



1. A folding table which includes: a top; a bracket depending from the under side of said top, said bracket being formed with a vertical slot and a locking recess; a rod disposed below said top and substantially parallel thereto with one of its ends in said slot and vertically movable with respect thereto; a sleeve disposed with its axis normal to said rod and slidably affixed thereto for longitudinal movement therealong; a leg having its upper end pivotally connected to said sleeve, said upper end also being insertable within said locking recess so as to be retained in a distended position, said leg being movable out of said locking recess away from said bracket in a direction parallel to said rod from a distended position to a folded position against the under side of said top, the end of said rod being vertically movable within said slot as said leg is withdrawn from said locking recess.

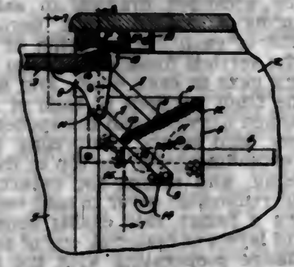
2,656,233
DEVICE FOR DELIVERING CARDS, ESPECIALLY RAILWAY TICKETS
Walter Bollmann, Zurich, Switzerland
Application February 29, 1948, Serial No. 12,198
In Switzerland August 6, 1947
2 Claims. (Cl. 312—61)



1. A magazine for holding a stack of tickets having a generally rectangular outline comprising a housing defined by two spaced walls, a perpendicular wall joining said spaced walls along one of the longitudinal edges thereof, an end wall for said spaced and perpendicular walls and an open end constituting a delivery opening opposite said end wall, the front face of the outermost card of the stack lying at an angle to the longitudinal axis of the housing and within the housing, a spring-loaded follower slide within said housing located between the stack of tickets and the end wall for urging the tickets toward the delivery opening, a transverse rib on one of the spaced walls forming an acute angle with respect to the plane of the delivery opening at the open end of the housing, means on the other of the spaced walls cooperating with said transverse rib to retain the stack of tickets within the

housing, the rear face of the rib being substantially perpendicular to the said plane, means on said rib and said spaced wall forming a cut-away portion to permit the manual grasping of the edge of each ticket, means on the slide defining a contact surface to engage the rearmost ticket only in that area adjacent the spaced wall having the means thereon cooperating with the transverse rib, and further means on the slide intermediate said surface and the other of the spaced walls defining a recess within the slide to permit means to be inserted into the recess to move the slide toward the end wall against the action of the spring.

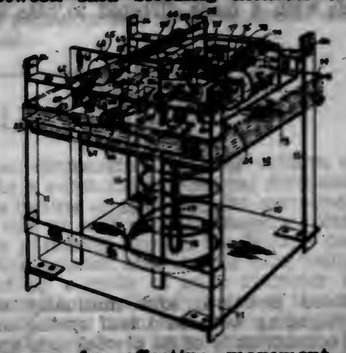
2,656,234
LOCK FOR TYPEWRITER DESKS
Clarence W. Koch, St. Louis, Mo.
Application September 29, 1949, Serial No. 118,530
5 Claims. (Cl. 312—28)



5. A typewriter desk comprising a frame; a carriage movable relative to said frame between innermost and outermost positions; a platform; means for pivotally suspending said platform from said carriage including brackets, each bracket having an extension thereon; a lever member for securing said carriage relative to said frame in said outermost position; a locking bar mounted on said frame and having a length substantially equal to the width of said platform, said bar being responsive to gravitational action adapted for engagement with each of said extensions in said outermost position of said carriage for locking said platform to said frame; and a lever engageable with said locking bar for releasing it from said extensions and said platform from said frame.

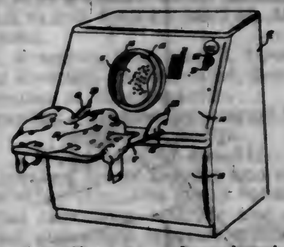
2,656,235
DISK-SHAPED PHONOGRAPH VENDING APPARATUS
Ford Se Bastian, Chicago, Ill., assignor to Electro-Snap Switch & Mfg. Co., a corporation of Illinois
Application May 16, 1952, Serial No. 288,183
6 Claims. (Cl. 312—56)

1. A machine for vending a package containing a relatively flat phonograph disc comprising a spring-elevated relatively flat supporting table disposed in a substantially horizontal plane and on which a stack of packages may be positioned, a guide structure above the table, a follower carried by the guide structure and movable in a horizontal plane over the stack of packages on said table and including a blade adapted to engage an adjacent edge of said top package, means for manually moving said follower in a direction relative to said structure to remove said top package, latch means normally latching the follower against such movement, electromagnetic means for actuating said latch means to move said latch means from latched relation with respect to said follower, a movable blocking member normally disposed in the path of movement of said top package, and an operative connection between said blocking member and said



latch means for effecting movement of said blocking member from blocking position with respect to said top package upon movement of said latch means by said solenoid from latched relation with respect to said follower.

2,656,236
WASHING APPARATUS
William A. Wassmann, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 6, 1949, Serial No. 131,445
2 Claims. (Cl. 312—234)

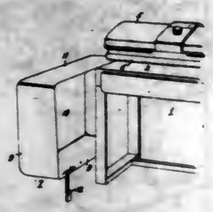


1. In combination, a casing structure, a platform structure hinged to the casing structure and movable between a first position and a second, generally horizontal position for the reception of articles to be weighed, means secured to said casing structure for indicating the weight of articles placed on said platform structure, an elongated leaf spring, spaced first and second members mounted on said casing structure for supporting said spring, said first member engaging one end of the spring and said second member engaging a portion of said spring intermediate its ends, means connecting the opposite end of said spring and said indicating means for actuating the latter and a projection carried by said platform structure and engaging said spring intermediate said first and second supporting members when said platform structure is in its second position.

2,656,237
COMBINATION HANDLE AND SUPPORT LEG FOR IRONER CABINETS
Charles M. Hall, Trumbull, Conn., assignor to General Electric Company, a corporation of New York
Application August 1, 1951, Serial No. 239,722
2 Claims. (Cl. 312—241)

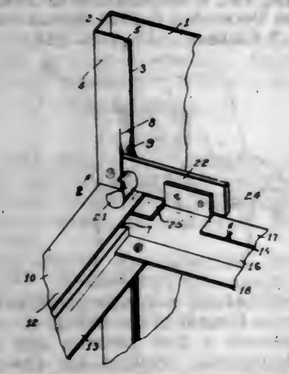
1. A combination handle and support leg for a pivotally mounted ironer cover, comprising: a

base member secured to said cover, a bar pivotally mounted in said base member, a leaf spring secured to said base member and shape to engage one end of said bar eccentrically of its pivotal axis with a force directed to bias said bar



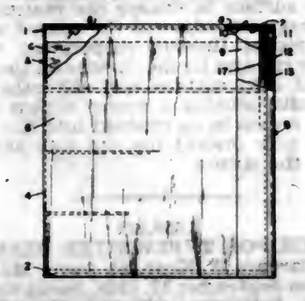
into closed position, and manually operable means engaging with said leaf spring and said bar end eccentrically of its pivotal axis and movable in a direction opposed to the direction of said leaf spring force to move said bar toward its open position.

2,656,238
FILING CABINET STRUCTURE
Jack Adler, St. Louis, Mo.
Application April 14, 1952, Serial No. 282,253
3 Claims. (Cl. 312—257)



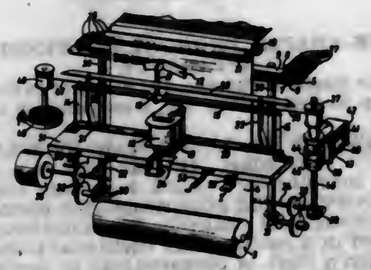
1. In a sheet metal filing cabinet provided with a side wall having a vertically extending reentrant front flange, a horizontal front rail of approximately channel-shaped cross-section, and a channel-section drawer-receiving horizontal slide rail extending between the front and rear of the side wall, a joint construction interlocking all of said parts and comprising a vertically elongated cut-out extending forwardly from the rear edge of said flange, said front rail having spaced from its end a rearwardly extending slot whereby said rail may be shifted forwardly with the slot in registry with the opposed vertical edge of said cut-out to straddle said flange thereat, and there being a rearwardly extending notch at the forward end of said slide rail through its upper leg portion and closely adjacent its web portion to permit said end of said slide rail to be inserted beneath said upper leg portion of the front rail and then shifted forwardly with said notch in registry with the vertical edge of said cut-out until the web portion of said slide rail is superimposed on said flange forwardly of said cut-out.

2,656,239
SLIDE FILE
Albert Edward Milliken, Kingston, N. Y.
Application September 20, 1951, Serial No. 247,481
2 Claims. (Cl. 312—310)



2. A slide file comprising a casing, a plurality of vertically arranged drawers in said casing each including a drawer front portion, said front portion of each drawer being of a height less than the vertical distance between a pair of said drawers next to each other, and means for masking the front portions of each of said vertically arranged drawers, and the spaces between said drawers, said means comprising a removable cover extending from the top to the bottom of said casing, and means for detachably attaching said removable cover to said casing, said cover having a flange, said casing consisting of a plurality of layers of material, one of said layers having a flange cooperating with the flange of said cover and a plurality of followers in each of said drawers, each follower plate having a slot, and a metal tape extending longitudinally of each drawer and threadedly engaging the slot of each follower plate.

2,656,240
RECORDING APPARATUS FOR THE RECEPTION OF MESSAGE CHARACTERS
Rudolf Hell, Kiel-Dietrichsdorf, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Berlin-Siemensstadt and Munich, Germany, a German corporation
Application June 8, 1950, Serial No. 166,805
In Germany December 20, 1948
17 Claims. (Cl. 346—35)



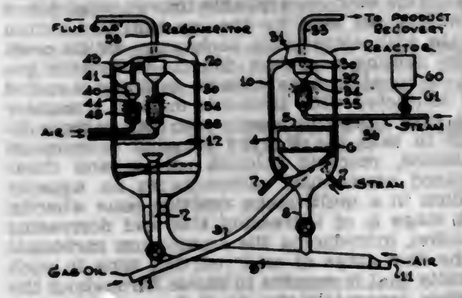
1. Facsimile page printing apparatus, comprising paper feed means, a paper backing device containing reciprocable bar means having line contact with the paper transverse to the paper feed direction and over the entire length of the lines of characters to be printed, cyclically operating drive means connected with said bar means to impart reciprocating motion thereto for periodically moving said line contact in said direction a distance corresponding approximately to the maximum height of the characters to be printed, hammer-like printing means movable across said paper feed direction at the paper side away from said backing device and having an elongated hammer face extending in said paper feed direction over said height, signal-responsive means, and means connecting said signal-responsive means with said printing means for actuating said printing means toward the paper to produce marks on the paper at the crossing points of said printing means with said bar means.

CHEMICAL

2,656,241
FURTHER AMINIZED AMINOALKYLATED CELLULOSES BY REACTING WITH ETHYLENIMINE
George L. Drake, Jr., and John D. Guthrie, New Orleans, La., assignors to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application May 11, 1951, Serial No. 225,906
6 Claims. (Cl. 8—116.2)
(Granted under Title 35, U. S. Code (1952), sec. 266)

4. A process of producing an ion-exchange fabric which even after use and regeneration for at least four cycles has an ion-exchange capacity of at least about 1400 milli-equivalents, and which possesses cellulosic fibrous character comprising: reacting aminoethylated cotton fabric containing 0.5 to 1.8% nitrogen with ethylenimine until the fabric contains from 2 to 5% nitrogen, the aminoethylated cotton being one obtained by treating cotton fabric with aminoethylsulfuric acid and sodium hydroxide.

2,656,242
APPARATUS AND PROCESS FOR HANDLING FLUIDIZED SOLIDS
George L. Matheson, Summit, N. J.; The Summit Trust Company, Summit, N. J., the alternate executor of said George L. Matheson, deceased, assignor to The Standard Oil Development Company, a corporation of Delaware
Application June 27, 1952, Serial No. 296,042
8 Claims. (Cl. 23—1)



6. In a process wherein finely divided solids and gases are contacted in a contacting zone as a dense, turbulent, fluidized bed having a surface in a lower part of said contacting zone, with a more dilute phase above said surface, and wherein fresh principal gas is introduced into a bottom portion of the said dense bed and treated gas is withdrawn from the said dilute phase in the upper part of the contacting zone after passage through a dust separating zone where entrained solids are separated and removed downwardly as a dense substantially vertical column and wherein the said column of separated solid fines terminates a substantial distance above the said surface of the dense bed, the improvement which comprises discharging the said column of solid fines into a substantially vertical elongated sealing zone having an open top and surrounding the bottom end of said column whereby a dense bed of solids is formed around the bottom discharge end of the column, said sealing zone being characterized by a ratio of zone diameter to zone depth beneath the discharge end of the said column of not more than ⅓ and being further characterized by having a zone diameter of about 1.4 to 4 times as great as the diameter of the said column, injecting an aeration gas into the bottom of the said sealing zone, passing the injected gas upwardly through the dense bed of solid fines at an upward superficial gas velocity of about 0.05 to 0.5 ft./sec., said injected aeration gas being inert with respect to the principal gas contained in the contacting zone, and overflowing solid fines from the sealing zone to the said dense, turbulent bed of solids present in the lower part of the contacting zone.

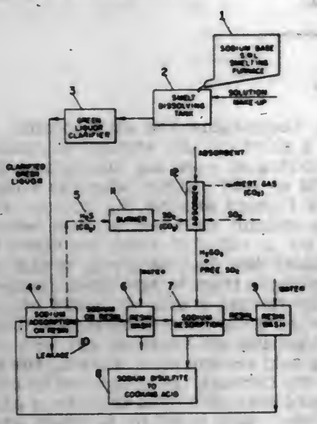
2,656,243
METHOD FOR STABILIZING ALKALI METAL AND ALKALINE EARTH METAL ALUMINUM HYDRIDES
Robert W. Bragdon, Marblehead, Mass., assignor to Metal Hydrides Incorporated, Beverly, Mass., a corporation of Massachusetts
No Drawing. Application August 2, 1951, Serial No. 240,278
3 Claims. (Cl. 23—14)

1. The method for producing and stabilizing a product selected from the group consisting of an alkali metal aluminum hydride and an alkaline earth metal aluminum hydride which comprises reacting a metal hydride selected from the group consisting of an alkali metal hydride and an alkaline earth metal hydride with an aluminum halide in solution in diethyl ether thereby obtaining a solution of said product containing a solid by-product, removing said solid from said solution, thereafter removing the diethyl ether from said solution to obtain said product in solid form, and bringing said solid product in contact with an ether selected from the group consisting of dimethyl cellosolve, diethyl cellosolve, thereby stabilizing said product for storage.

2,656,244
PROCESS OF RECOVERING CHEMICALS FROM SMELTS OBTAINED IN PULPING OPERATION
Kenneth Russell Gray and Hartsell Lance Crosby, Shelton, Wash., assignors to Rayonier Incorporated, Shelton, Wash., a corporation of Delaware
Application July 15, 1950, Serial No. 174,103
9 Claims. (Cl. 23—48)

1. In the preparation of wood pulps, the process for recovering chemicals which comprises combusting waste liquor from the alkaline treatment of sulfite digested pulp to yield a smelt containing a sodium salt of a weakly acidic volatile acid of the group consisting of hydrogen

sulfide and carbonic acid, treating a solution of said smelt with a cation exchange resin having active exchange centers in hydrogen form which are substantially less acidic than sulfur dioxide and evolving a substantial portion of said volatile



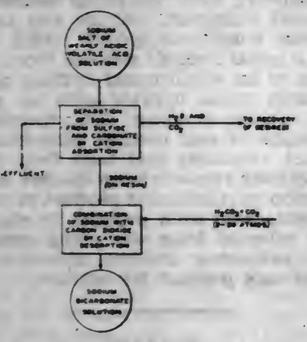
acids in gaseous form and adsorbing sodium on the resin, treating said resin containing adsorbed sodium with sulfurous acid to form a solution containing sodium bisulfite suitable for use in the acid sulfite digestion of wood, and returning the sodium bisulfite to the pulping operation.

2,656,245

PREPARATION OF SODIUM SALTS OF CARBONIC ACID BY ION EXCHANGE

Kenneth Russell Gray and Hartzell Lance Crosby, Shelton, Wash., assignors to Rayonier Incorporated, Shelton, Wash., a corperation of Delaware

Application July 15, 1950, Serial No. 174,104
9 Claims. (Cl. 23—64)



1. In a process for the preparation of sodium salts, the improvement which comprises bringing an aqueous solution containing at least one sodium salt of a weakly acidic volatile acid of the group consisting of sodium sulfide and sodium carbonate into reacting contact with a cation exchange resin having active exchange centers which are weakly acidic groups in hydrogen form, evolving a substantial portion of the volatile acid in gaseous form and adsorbing sodium on the resin, and contacting the resin containing adsorbed sodium with carbonic acid in solution under a carbon dioxide pressure of from 2 to 50 atmospheres to form a sodium salt of carbonic acid and regenerate the resin.

2,656,246

PREPARATION OF ALKALI METAL ACID CYANAMIDE

Raymond A. Vingee, Stamford, Conn., and Ludwig J. Christmann, Bronxville, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application April 17, 1951, Serial No. 221,532
5 Claims. (Cl. 23—78)

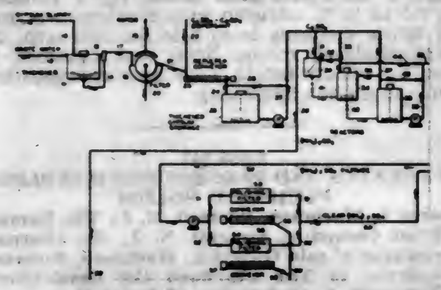
1. The method that comprises reacting calcium cyanamide, alkali metal hydroxide, and water in the respective mol ratios of 1 to at least 0.8 to at least 1.5, at a temperature of 40–80° C., whereby an aqueous dispersion of alkali metal acid cyanamide is formed, and removing water from said dispersion by subjecting it to subatmospheric pressure not exceeding 9 inches of mercury and to a temperature of about 60°–80° C.

2,656,247

AMMONIUM SULFATE AND CALCIUM OXIDE MANUFACTURE

Sam P. Robinson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corperation of Delaware

Application September 19, 1949, Serial No. 116,587
9 Claims. (Cl. 23—119)



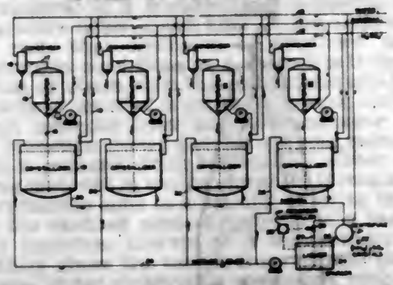
6. A process for the manufacture of ammonium sulfate in exceptionally high yield and calcium oxide with an available lime content above 70 weight per cent by the reaction of calcium sulfate with ammonium carbonate, which comprises passing a carbon dioxide-containing gas to a carbonation zone wherein said gas is cooled and contacted with ammonia in such a manner that said ammonia reacts with the carbon dioxide in said gas thereby forming ammonium carbonate, reacting calcium sulfate and thus-prepared ammonium carbonate in an aqueous medium in a multi-stage reaction zone wherein each stage is of increasing size and decreasing agitation, introducing the ammonium carbonate to the first stage of said reaction zone in such quantity that it remains in excess throughout the reaction, separating the reaction product in such a manner that all of the solid material is removed from the aqueous ammonium sulfate liquor, storing thus-produced ammonium sulfate liquor only after all of the solids content has been removed, separating calcium carbonate recovered from said ammonium sulfate liquor from silica impurity by means of froth flotation, admixing with thus-treated calcium carbonate low ash carbonaceous material, burning said admixture at an elevated temperature and thereby calcining said calcium carbonate to calcium oxide and removing phosphate impurity, and recovering calcium oxide with an available lime content above 70 weight per cent as a product of the process.

2,656,248

AMMONIUM SULFATE PRODUCTION

Russell K. Simms, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corperation of Delaware

Application October 21, 1949, Serial No. 122,754
4 Claims. (Cl. 23—119)



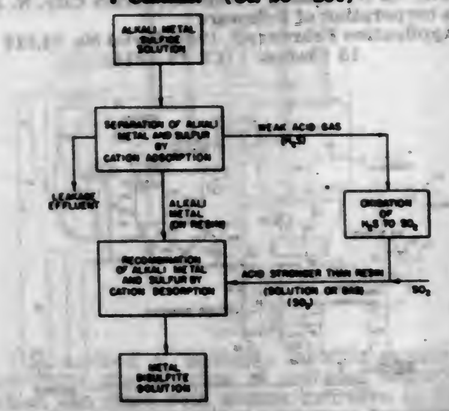
1. A process for the manufacture of crystalline ammonium sulfate in a plurality of crystallization units wherein the free acid of the liquor is at variance from unit to unit and is to be maintained within an optimum range which process comprises arranging the several crystallization units for parallel operation so that when water, ammonia and sulfuric acid are introduced to said units the free acid content in each unit is approximately the same and within the range of 0.2 to 0.5 mol per cent excess based on ammonia, withdrawing and admixing the magma from crystal formation in the several crystallization units when the crystals have reached a size in the range of 20 to 60 mesh and passing the resulting admixture to a separation zone, separately recovering ammonium sulfate crystals and mother liquor in said separation zone, to assist in keeping the free acid content in each crystallizer within the range of 0.2 to 0.5 mol per cent adjusting said free acid content of recovered mother liquor to within said range, and recycling the thus treated mother liquor to the various evaporative crystallization units.

2,656,249

PROCESS FOR THE PREPARATION OF A SODIUM BISULFITE SOLUTION

Kenneth Russell Gray and Hartzell Lance Crosby, Shelton, Wash., assignors to Rayonier Incorporated, Shelton, Wash., a corperation of Delaware

Application July 15, 1950, Serial No. 174,102
7 Claims. (Cl. 23—130)



1. A process for the preparation of a sodium bisulfite solution which comprises treating a solution containing a sodium salt of a weakly acidic volatile acid of the group consisting of hydrogen sulfide and carbonic acid with a cation exchange resin having active exchange centers in hydrogen form which are substantially less acidic than sulfur dioxide and evolving a substantial portion of said volatile acid in gaseous form and adsorbing sodium on the resin, and treating said resin containing adsorbed sodium with sulfurous acid to form a solution containing sodium bisulfite.

2,656,250

ALUMINA-BASE FILLERS FOR RUBBER COMPOSITIONS

Henseé Jean Thiben and Henri Joseph Paul Mathieu, Gardanne, France, assignors to Pechiney-Compagnie de Produits Chimiques et Electrometallurgiques, a corperation of France

No Drawing. Application November 16, 1949, Serial No. 127,794. In France November 18, 1948
6 Claims. (Cl. 22—143)

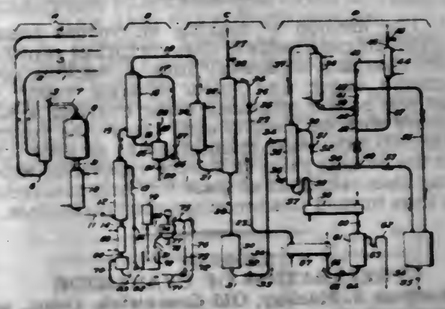
1. A new composition of matter consisting essentially of artificially produced ultra fine alumina monohydrate in lamellar form, wherein the thickness of each lamella is in the range of from 1 to 20 millimicrons and the major dimension in each lamella is substantially in the range of from 1 to 2 microns, said monohydrate having been prepared by the method comprising the steps of: adding to a sodium aluminate solution alumina gel; hydrolyzing the said solution at 25° C. to form crystalline alumina trihydrate; separating the said trihydrate and adding thereto an aqueous medium; and heating the aqueous mixture at a temperature substantially above 120° C. to produce the aforesaid alumina monohydrate.

2,656,251

PROCESS FOR THE MANUFACTURE OF HCN

Ludwig J. Christmann, Yonkers, N. Y., and Alfred G. Houpt, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corperation of Maine

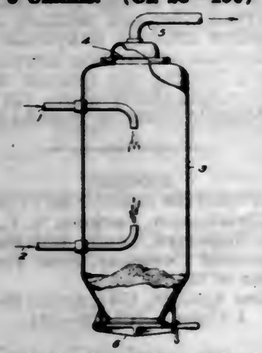
Application April 24, 1947, Serial No. 743,592
1 Claim. (Cl. 23—151)



In the process of preparing HCN in which a gaseous mixture comprising ammonia, a hydrocarbon and oxygen, is continuously subjected to catalyzed combustion, thereby forming a vapor phase mixture comprising HCN, ammonia, and at least one inert gas, the method of selectively removing the unreacted ammonia without forming azulmic acid which comprises continuously: cooling the vapor phase mixture to approximately 175–225° F.; removing said unreacted ammonia by passing said cooled mixture countercurrently to an aqueous solution initially containing about 35–40% ammonium sulfate and about 6–7% sulfuric acid, maintaining the rates of flow of

said mixture and said solution such as to absorb substantially all of the ammonia in said mixture to form a substantially saturated ammonium sulfate solution; adjusting said cooling of said vapor phase mixture with respect to the temperature of the aqueous solution and the flow rate thereof so that the temperature of the resulting saturated solution is above 175° F. but below 25° less than the boiling point of said saturated solution at the operating pressure; cooling the saturated solution sufficiently to crystallize ammonium sulfate to a degree such as to leave a residual solution in which the ammonium sulfate content is about 35–40% by weight; adjusting the sulfuric acid content of said residual solution to about 6–7% by weight; and recycling said adjusted residual solution to the absorption step, and washing the residual ammonia free vapor phase mixture with a circulating flow of substantially HCN-saturated aqueous fluid containing a small quantity of the sulfuric acid at substantially the temperature of said residual mixture after ammonia absorption.

2,656,252
PRODUCTION OF AMMONIUM NITRILO-TRISULFATE
Nat H. Marsh, Noreton Heights, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application June 2, 1951, Serial No. 229,559
6 Claims. (Cl. 23—190)

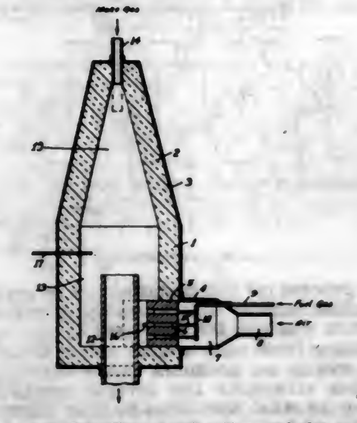


1. The method of making anhydrous triammonium nitrilotrisulfate that comprises continuously charging separately into a reaction zone ammonia vapor and sulfur trioxide vapor, at least one of the reactants being charged in admixture with an inert diluent vapor; the volume ratio NH_3:SO_3 being maintained at at least 1.33, and the volume ratio of diluent vapor:SO_3 vapor being maintained at at least 0.5; and recovering the thus formed triammonium nitrilotrisulfate.

2,656,253
PREPARATION OF CYANAMIDE
Johnstone S. Mackay, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application November 23, 1951, Serial No. 257,971
4 Claims. (Cl. 23—190)

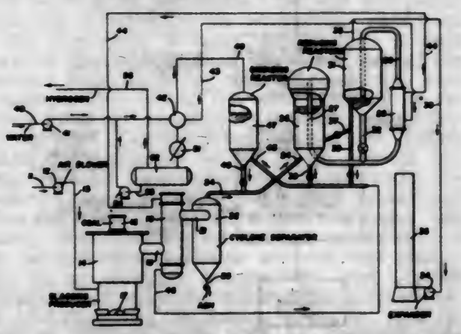
1. The method of preparing cyanamide which comprises heating a member of the group consisting of melamine, melam, melem and melon to a temperature of at least 610° C. to form a vapor effluent containing cyanamide, followed by condensing the vapor effluent by cooling sufficiently rapidly to inhibit polymerization of the cyanamide and thereafter recovering the cyanamide.

2,656,254
CARBON BLACK
George L. Heller, Monroe, La., assignor to Columbian Carbon Company, New York, N. Y., a corporation of Delaware
Application December 11, 1948, Serial No. 64,764
1 Claim. (Cl. 23—209.4)



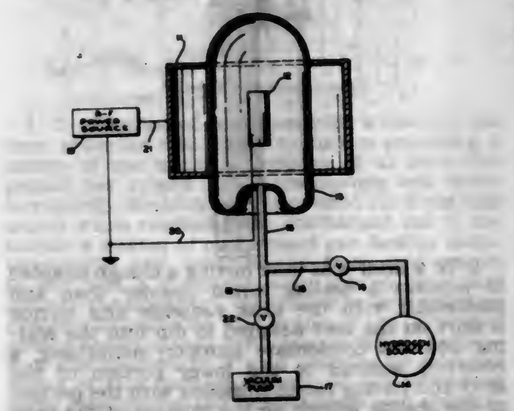
A process for the production of furnace carbon by the decomposition of hydrocarbons comprising blasting a combustible mixture of a fuel gas and air tangentially into the lower end of a furnace chamber consisting of a cylindrical lower portion and a conical upper portion, the apex of said cone being at the upper end of the furnace chamber, igniting the combustible mixture as it enters the furnace chamber, and withdrawing gaseous reaction products through an outlet axially positioned in the lower end of the furnace chamber above the combustible mixture inlet thereto, thereby forming a high velocity stream of hot blast flame gases spiralling upwardly through the chamber along the confining walls thereof to the far end of the cone and then returning through the chamber as an inner spiral, and injecting the hydrocarbons to be decomposed into the furnace chamber near the apex of the cone-shaped portion thereof and along the coaxial line of the furnace chamber.

2,656,255
MANUFACTURE OF HYDROGEN
William B. Johnson, Far Hills, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application February 2, 1949, Serial No. 74,213
13 Claims. (Cl. 23—214)



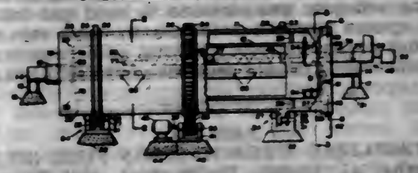
1. A process for producing hydrogen which comprises combusting carbon containing material with oxygen containing gas under conditions suitable for the production of a major proportion of carbon monoxide and a minor proportion of carbon dioxide, passing excess steam upwardly through an oxidizing zone in the presence of finely divided reduced metalliferous contact material at a velocity effective to suspend the contact material in a pseudo-liquid condition at a temperature below about 1100° F. but sufficiently high such that hydrogen is produced under endothermic conditions at a desired rate by the reaction of steam with the contact material and the contact material is oxidized, passing oxidized contact material from the oxidizing zone to a first reduction zone, passing carbon monoxide which is prepared from combusting carbon containing material in excess upwardly through said first reduction zone at a velocity effective to suspend the oxidized contact material in a pseudo-liquid condition therein at a temperature significantly above the temperature of said oxidizing zone under exothermic conditions such that the metalliferous contact material is reduced by the carbon monoxide which is converted to carbon dioxide and the heat generated therein is sufficient to constitute the principal source of heat for the oxidizing zone, passing a relatively small proportion of contact material from the first reduction zone to a second reduction zone wherein the contact material is further reduced by the unconverted carbon monoxide from the first reduction zone at a temperature below about 700° F. but sufficiently high to obtain the desired rate of reaction, removing an effluent from the said second reduction zone comprising carbon dioxide and substantially free of carbon monoxide, recycling reduced metalliferous contact material to the said oxidizing zone at a temperature and in an amount sufficient to constitute the principal source of heat thereto, at least a portion of the reduced contact material is recycled from the first reduction zone, and recovering hydrogen from the oxidizing zone as the product of the process.

2,656,256
METHOD OF TESTING A METALLIC SAMPLE
Max L. Yeater, Boulder, Colo., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application March 18, 1946, Serial No. 655,306
5 Claims. (Cl. 22—220)



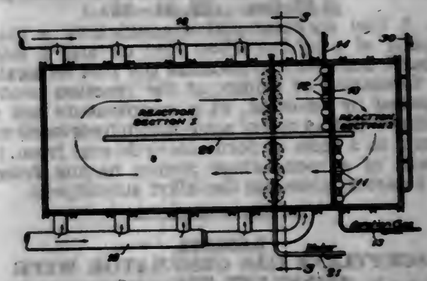
1. A method of testing a metallic sample to determine the presence of occluded impurities which can react with atomic hydrogen to form a volatile compound which comprises, heating the sample in a vacuum to drive off residual gases, enclosing said heated sample in a low pressure atmosphere of molecular hydrogen gas, ionizing said gas to form atomic hydrogen, cooling said sample to room temperature while maintaining constant the pressure of said molecular hydrogen gas atmosphere, reheating said sample in said hydrogen gas atmosphere, and applying radio frequency power to cause an electric glow discharge in said low pressure hydrogen atmosphere.

2,656,257
APPARATUS FOR PELLETING CHAIN STRUCTURE CARBON BLACK
Charles H. Hohnadel, Kermit, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 11, 1948, Serial No. 53,788
3 Claims. (Cl. 22—259.5)



1. An apparatus for pelleting carbon black comprising a pair of elongated, hollow, cylindrical drums of different diameters, disposed horizontally and having end walls, the drum of smaller diameter being disposed concentrically within the drum of larger diameter to form an elongated annular space therebetween, means for rigidly attaching one drum to the other drum, means for rotating the drums about their common axis, a horizontally disposed open end screw conveyor extending from the inlet end of the inner drum throughout a major portion of the length thereof for introducing flocculent carbon black, means for transferring carbon black from the other end of the inner drum to the adjacent end of the outer drum, and means for removing carbon black pellets from the end of the annular space adjacent the inlet end of the inner drum.

2,656,258
REACTION FURNACE FOR CONTACTING A GAS AND FLUIDIZED SOLIDS
Fred L. Symonds, Louisiana, Mo., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Original application April 12, 1945, Serial No. 588,987, now Patent No. 2,490,986, dated December 13, 1949. Divided and this application September 20, 1949, Serial No. 116,673
4 Claims. (Cl. 22—238)



1. An apparatus for contacting finely divided solids and gases, said apparatus comprising a furnace chamber, a gas permeable hearth within said chamber, a gas-induction space beneath said hearth, a refractory roof within said chamber

over said hearth, a gas-contacting space above said hearth and below said roof within said chamber, an upstanding wall means extending between said roof and said hearth dividing said furnace chamber into at least two furnace sections above said hearth and at least two gas-induction spaces below said hearth, port means comprising at least one port in one portion of said wall means adapted to discharge flowing solids from a first one of said furnace sections into a second one of said furnace sections above said hearth and additional ports in another portion of said wall means adapted to discharge flowing solids from said second furnace section into said first furnace section, thereby providing series flow of solids through said sections, said port means in said wall portions comprising a plurality of inverted J tubes having the stems depending into the respective discharging section, separate duct means for supplying separate gas streams to said gas-induction spaces beneath said hearth, and separate conduit means for withdrawing gases separately from the said furnace sections above said hearth.

2,656,259

STABILIZED HYDROCARBON FUEL OILS

Herschel G. Smith, Wallingford, and Troy L. Cantrell, Lansdowne, Pa., and John G. Peters, Audubon, N. J., assignors to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application August 28, 1950, Serial No. 181,936

4 Claims. (Cl. 44—73)

1. A fuel oil composition comprising a major amount of a hydrocarbon fuel oil and a minor amount, sufficient to stabilize the fuel oil against the formation of sludge, of the reaction product prepared by reacting an aqueous slurry of 1 mol of a metal hydroxide selected from the group consisting of barium, strontium, magnesium and calcium hydroxides with from 2 to 4 mols of formaldehyde at a temperature not exceeding 200° F. and condensing the resulting product with from 0.5 to 1 mol of aniline and from 2 to 4 mols of a mono-alkyl phenol having from 4 to 12 carbon atoms in the alkyl substituent.

2,656,260

STABILIZED HYDROCARBON FUEL OILS

Herschel G. Smith, Wallingford, and Troy L. Cantrell, Lansdowne, Pa., assignors to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application August 28, 1950, Serial No. 181,935

4 Claims. (Cl. 44—75)

1. A fuel oil composition comprising a major amount of a hydrocarbon fuel oil and a minor amount, sufficient to stabilize the fuel oil against the formation of sludge, of the reaction product prepared by reacting, at a temperature not exceeding 200° F., 1 mol of ammonium hydroxide with from 1 to 5 mols of formaldehyde and from 1 to 4 mols of a mono-alkyl phenol having from 4 to 12 carbon atoms in the alkyl substituent.

2,656,261

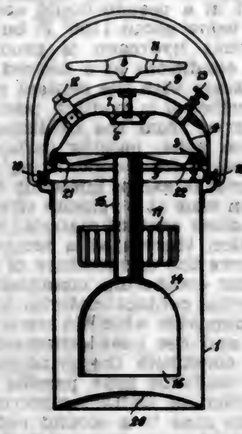
ACETYLENE GAS GENERATOR WITH CONSTANT PRESSURE

Francesco Passeri, Buenos Aires, Argentina

Application March 6, 1950, Serial No. 147,786

7 Claims. (Cl. 48—22)

2. An acetylene generator comprising, an outer gas-containing chamber, a cover closing said chamber, means for holding said cover in closed position on said chamber, said cover having a hollow interior and having openings establishing communication between said hollow interior and the interior of the outer chamber, means on the cover for supporting a cup-shaped casing within



the outer chamber, said casing having an open bottom, a carbide receptacle supported within the outer chamber between the casing and the cover, and a gas outlet cock and a relief valve in the cover in communication with the hollow interior of the same.

2,656,262

CONDENSATE STRIPPER

Lyle V. Larsen, Chicago, Ill., assignor to Chicago Bridge & Iron Company, a corporation of Illinois

Application March 28, 1951, Serial No. 218,636

9 Claims. (Cl. 48—176)



1. In a lifter roof tank having a trough adapted to contain a sealing liquid heavier than and immiscible with the tank contents and having a skirt on the roof adapted to dip into the sealing liquid, a condensate stripper, comprising, a reservoir secured to the lower portion of the skirt and having communication with the portion of the sealing trough on the interior of the skirt and a riser pipe communicating at its lower end with said reservoir and at its upper end with the interior of the tank, the upper end of said pipe being above the sealing trough in all positions of the roof with respect to the tank shell, whereby condensate on the surface of the sealing liquid inside said skirt may be returned to the tank upon lowering of the skirt and roof.

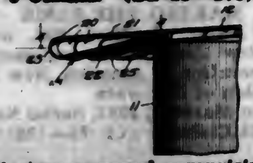
2,656,263

CONNECTOR FOR LIQUID STORAGE TANKS

Lyle V. Larsen, Chicago, Ill., assignor to Chicago Bridge & Iron Company, a corporation of Illinois

Application August 15, 1950, Serial No. 179,551

6 Claims. (Cl. 48—178)



1. A fluid storage vessel comprising a stationary lower portion having a bottom and sidewalls, a roof movable vertically relative to the lower portion to provide a variable volume gas space within the vessel and an articulated connector between the side walls and roof, said connector being formed of a plurality of separate plates placed in side-by-side relation about the upper portion of the sidewalls, each plate being bent upon itself to form a pair of opposed flat portions joined by a curved portion, each plate being continuous from sidewall to roof with said flat portions being joined respectively to the roof and sidewalls so that movement of the roof causes bending in said plates and fabric sealing means between each adjacent pair of plates making the connector gastight.

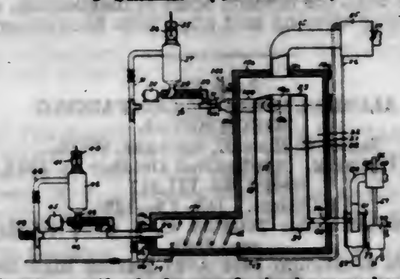
2,656,264

MANUFACTURE OF CALORIFIC GAS

John I. Yellott, Cockeysville, Md., assignor to Institute of Gas Technology, Chicago, Ill.

Application August 28, 1947, Serial No. 771,132

3 Claims. (Cl. 48—197)



1. The method of manufacturing a calorific gas from granular coal which comprises providing a source of gas under a pressure of at least five pounds per square inch; continuously and uninterruptedly discharging compressed gas from said source while confining the discharged gas to establish a stream of compressed gas flowing uninterruptedly and continuously from said source to and past a discharge point spaced from said source; concurrently, continuously and uninterruptedly introducing said granular coal into said stream ahead of said discharge point for acceleration and suspension of said granules by said gas ahead of said discharge point; at said discharge point establishing and continuously and uninterruptedly maintaining a sharp gas pressure gradient, the pressure of said granule-suspending gas being instantaneously reduced as said granule-suspending gas continuously and uninterruptedly flows past said discharge point; said stream of compressed gas having a substantially uniform cross sectional area upstream of said discharge point and being sharply constricted only at said discharge point whereby the total pressure drop in said stream is concentrated at said discharge point; the drop in gas pressure at said discharge point being continuously and uninterruptedly maintained at a value of at least five pounds per square inch and the gas pressure immediately downstream of said discharge point being reduced at least to a point where further downstream pressure reduction will not bring about a substantially increased weight rate of flow past said discharge point; said coal being introduced into said stream in the form of granules smaller than the cross section of said stream at said discharge point; each of said suspended granules being carried in suspension by said streaming compressed gas along a substantially straight path to and past said discharge point and there further accelerated and subjected to said instantaneous drop in gas pressure whereby said granules are disintegrated and there is formed a flowing suspension of shattered coal particles in expanded gas; immediately forming said suspension into a vortex; incorporating with said vortex, in a stream separate from said flowing suspension of shattered coal particles in expanded gas, a gas capable of reacting at an elevated temperature with said coal particles to form a calorific gas; and maintaining said vortex at an elevated temperature to bring about generation of a calorific gas.

2,656,265

METHOD AND COMPOSITION FOR THE CONTROL OF UNDESIRED VEGETATION

Wendell R. Mullison, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application December 20, 1951, Serial No. 262,670

6 Claims. (Cl. 71—2.3)

1. A method for inhibiting the growth of germinant seeds and young seedlings which comprises the step of distributing in the growth medium a composition containing as an active toxic ingredient 2-(4-chloro-o-toloxy) ethanol.

2,656,266

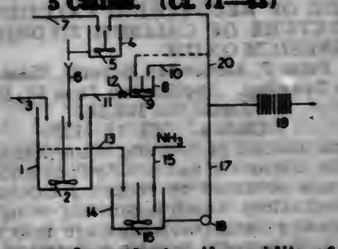
METHOD FOR REDUCING THE ACIDITY OF NITRIC ACID-CALCIUM NITRATE COMPOSITIONS CONTAINING PHOSPHATE IONS

Reidar Bang Calmeyer, Herøya, near Porsgrunn, Norway, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Oslo, Norway

Application March 15, 1949, Serial No. 81,544

In Norway March 15, 1948

5 Claims. (Cl. 71—43)



1. A process for reducing the acidity of a nitric acid-calcium-nitrate composition in dissolved form containing phosphate ions and up to 0.3% of fluoride ions with calcium carbonate comprising the steps of treating a first portion of said nitric acid calcium nitrate composition with an aqueous

solution of a base selected from the group consisting of calcium oxide, calcium hydroxide, alkali metal hydroxide, ammonium hydroxide and ammonium carbonate to obtain thereby a pH value above 2.5 and short of neutralization and thereafter simultaneously adding to said first treated portion additional quantities of said nitric acid-calcium nitrate composition together with finely divided calcium carbonate, said calcium carbonate being added in amounts at least equivalent to the acid in said added nitric acid-calcium nitrate composition, to obtain thereby a resulting pH value between 3 and 4, without the further addition of a basic hydroxide.

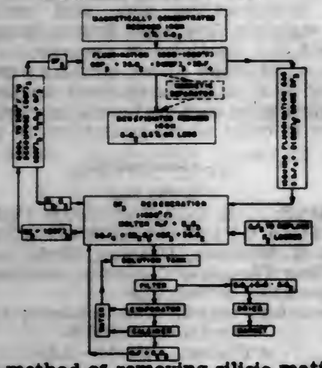
2,656,267

METALLURGICAL PROCESS

Vincent S. de Marchi, Chicago, Ill., assignor, by mesne assignments, to Inland Steel Company, Chicago, Ill., a corporation of Delaware

Original application May 10, 1945, Serial No. 592,955. Divided and this application October 11, 1950, Serial No. 189,542

2 Claims. (Cl. 75—28)



1. The method of removing silicic matter from finely divided iron which comprises contacting said iron at a temperature of at least 600° F. with boron trifluoride for a time sufficient to volatilize said silicic matter in the form of silicon tetrafluoride, separating the resulting gaseous mixture from said iron, contacting the separated silicon tetrafluoride with a molten mixture of sodium fluoride and boric oxide to regenerate boron trifluoride and to form a product from which sodium fluoride and boric oxide may be extracted with water for reuse, and contacting the regenerated boron trifluoride with additional amounts of finely divided iron.

2,656,268

METHOD OF RECOVERING CALCIUM FROM A MIXTURE OF CALCIUM HYDRIDE AND MAGNESIUM OXIDE

Peter P. Alexander, Beverly, Mass.

No Drawing. Application June 21, 1950, Serial No. 169,515

7 Claims. (Cl. 75—135)

1. The method of treating a mechanically inseparable mixture of calcium hydride and magnesium oxide obtained by reducing calcium oxide with magnesium which comprises bringing said mechanically inseparable mixture into intimate contact with a metal capable of forming an alloy with calcium having a melting temperature below that at which calcium hydride normally begins to dissociate under the same pressure conditions, and heating said mechanically inseparable mixture while in intimate contact with said metal in the presence of an inert medium to a temperature above the melting temperature of the eutectic of said alloy but below the temperature at which calcium hydride normally begins to dissociate under the same pressure conditions thereby producing a metallic mass containing magnesium oxide and from which the magnesium oxide is mechanically separable.

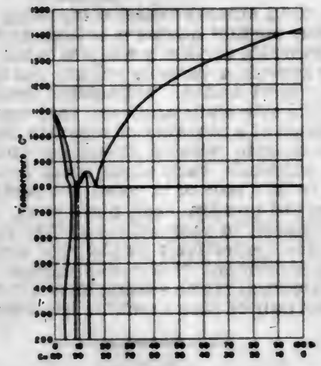
2,656,269

MAGNESIUM ALLOYS AND METHOD OF MAKING THE SAME

Holbert E. Dunn, Crafton, Pa., and Jerome Strauss, New York, N. Y., assignors to Vanadium Corporation of America, New York, N. Y., a corporation of Delaware

Application March 8, 1951, Serial No. 214,462

13 Claims. (Cl. 75—135)



1. The method of making an alloy containing magnesium, copper, silicon and iron, which comprises alloying magnesium with copper and silicon to form an alloy containing magnesium, copper and silicon and having a melting point higher than the melting point of magnesium, and thereafter alloying said alloy with ferrosilicon.

2,656,270

ALUMINUM ALLOY CONTAINING MISCHMETAL

James B. Russell, Spokane, Wash.

No Drawing. Application October 13, 1949, Serial No. 121,217

8 Claims. (Cl. 75—139)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. An aluminum base alloy having high temperature strength in the cast condition consisting essentially of about 10 to 12% mischmetal containing about 50% cerium and the balance other rare earth metals, about 1 to 3% silicon, up to about 5% copper, about 0.5 to 3% manganese and the balance aluminum.

2,656,271

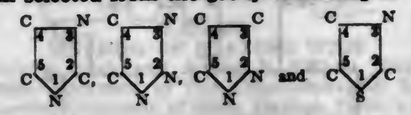
METHOD OF DEVELOPING AGED PHOTOSENSITIVE MATERIAL CONTAINING SILVER HALIDE AND A CHROMATE

Wilhelm Neugebauer and Maximilian Karl Reichel, Wiesbaden-Biebrich, Germany, assignors to Kreuffel & Esser Company, Hoboken, N. J.

No Drawing. Application October 13, 1950, Serial No. 190,041. In Germany October 24, 1949

8 Claims. (Cl. 95—88)

1. The method of producing images rich in contrast from aged photosensitive material comprising a colloid layer containing silver halide and a chromate on a base, which comprises treating said material after its exposure to light under a master with a developing solution containing a reducing agent for the exposed silver halide and a mono-nitro-substituted heterocyclic compound selected from the group of nitro substituted benzene and nitro substituted naphthalene condensed with a five-membered closed heterocyclic chain selected from the group consisting of



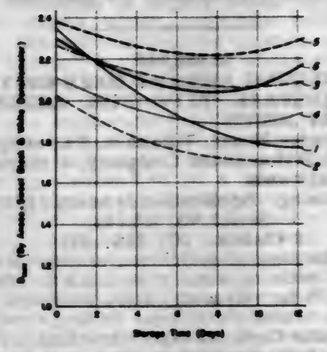
2,656,272

STABILIZED AZINE PHOTOGRAPHIC DEVELOPERS CONTAINING SODIUM METABORATE AS THE SOLE ALKALI

Robert C. Gunther, Galesburg, Ill., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

Application November 30, 1950, Serial No. 198,396

7 Claims. (Cl. 95—88)



1. A storage stable developer solution for the production of azine dyestuff images containing a 2,4-diaminoaniline and sodium metaborate as the only alkali for the developer.

2,656,273

PHOTOGRAPHIC DEVELOPERS CONTAINING DIAMINO-PROPANOL TETRACETIC ACID

Richard W. Henn and Douglas E. Piper, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application February 12, 1952, Serial No. 271,284

4 Claims. (Cl. 95—88)

1. A photographic developer composition comprising a silver halide developing agent and 1,3-diamino-2-propanol tetracetic acid.

2,656,274

PROCESSES FOR THE PRODUCTION, CONCENTRATION AND STABILIZATION OF FAT-SOLUBLE VALUABLE SUBSTANCES FROM CARROTS AND THE RESULTING PRODUCT

Friedrich Tiedt, Otterndorf, and Roderich Dewald, Wiesbaden, Germany

No Drawing. Application October 25, 1950, Serial No. 192,144. In Germany October 31, 1949

17 Claims. (Cl. 99—11)

1. A process for the production, concentration and stabilization of pro-vitamin A, vitamin E, anti-oxidants and like fat-soluble valuable substances from carrots, with maintenance of their mutual synergistic relations, and for increasing the stability and physiological value of a fatty base material treated therewith, said process consisting in the steps of finely disintegrating fresh carrots; emulsifying the thus obtained disintegrated material with a fatty emulsifying agent by intimately mixing the same therewith at a temperature at which the said emulsifying agent is fluid; pressing the resultant mixture to separate the phases of liquids from the solids, separating the fat phase of the liquid thus obtained, and incorporating said fat phase with the substance to be treated.

2,656,275

PROCESS FOR TREATING A MARINE PRODUCT

Charles E. Stevenson, Wilmington, Calif., assignor, by mesne assignments, to Quaker Oats Company, Chicago, Ill., a corporation of New Jersey

No Drawing. Application December 19, 1949, Serial No. 133,967

3 Claims. (Cl. 99—111)

1. A process for preparing a marine product which comprises treating such product with a concentration of free SO_2 not greater than approximately 350 parts per million and then driving substantially all of the free SO_2 and volatile compounds resulting therefrom from the product.

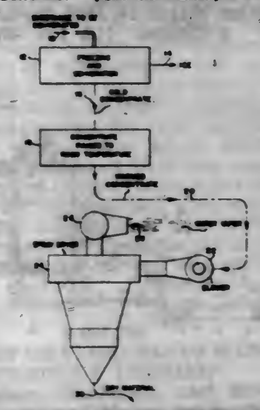
2,656,276

DRIED OR EVAPORATED FOOD PRODUCT, ESPECIALLY MILK, AND THE PROCESS OF MAKING IT

Harry A. Toulmin, Jr., Dayton, Ohio, assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio

Application July 19, 1949, Serial No. 105,590

5 Claims. (Cl. 99—200)



1. A process of concentrating liquid foodstuffs which may be reconstituted without substantial change in taste comprising reducing the temperature of the liquid foodstuff in successive stages to form ice crystals therein which are substantially pure water, moving the resultant partially frozen concentrate continuously in counter flow relationship to the flow of the ice crystals formed, removing a major portion of said ice crystals from the liquid foodstuff being concentrated at the point where the liquid foodstuff is most diluted, removing the concentrate and a portion of the ice crystals from the reduced temperature stages

when extraction of the ice from the concentrate without carry-out of the concentrate becomes difficult, elevating the temperature of the concentrate removed to thaw the ice crystals therein, and rapidly evaporating the resultant concentrate to a water content of the desired value.

2,656,277

UNDERFILLING MATERIAL FOR TOOTH-FILLINGS

Adolf Knappwost, Neuhausen, near Urach, Germany, assignor, by mesne assignments, to Vivadent Corporation, Boston, Mass., a corporation of Massachusetts

No Drawing. Application December 14, 1950, Serial No. 200,868. In Germany December 20, 1949

1 Claim. (Cl. 106—35)

Process for preparing an adhesive underfilling material under tooth fillings, comprising the steps of forming a mixture of a material selected from the class consisting of calcium oxid and calcium hydroxid, together with dry powdered casein, the weight of the casein relative to the weight of the calcium hydroxid being between 10 and 50%, whereby said selected calcium compound constitutes a major constituent of the mixture, preparing an aqueous solution containing chlorids of sodium, potassium, calcium and magnesium in relative percentages substantially corresponding to haemoisotonic saline fluid, by the solution of said chlorids in water, and moistening said powder mixture with said aqueous solution to a predetermined consistency.

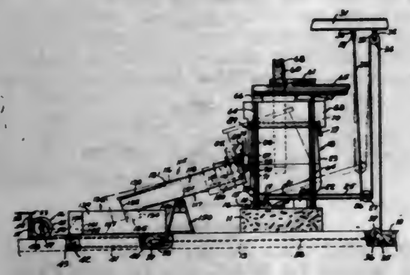
2,656,278

ZIRCONIA AND METHOD OF QUENCHING SAME AND ARTICLES MADE THEREFROM

Archibald H. Ballard and Douglas W. Marshall, Niagara Falls, Ontario, Canada, assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application March 16, 1950, Serial No. 150,096

6 Claims. (Cl. 106—57)



6. A refractory article consisting of at least 97% pure self-bonded crystalline zirconium oxide with calcium oxide, of which at least 80% is zirconium oxide stabilized with calcium oxide, and crystallized from a fusion of these oxides, the crystals being predominantly cubic and those of the stabilized zirconium oxide containing calcium oxide in solid solution, the amount of calcium oxide in the article being from 3% to 6% of the total amount of ZrO_2 in the article, at least 80% of the refractory article being made of hollow bodies of revolution with an opening therein thereby reducing the specific gravity of the article to from 2.4 to 3.0.

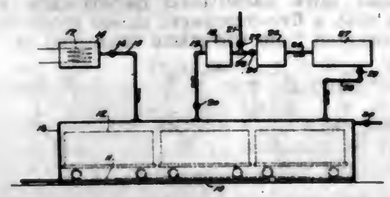
2,656,279

UNBURNED REFRACTORY BRICK

Russell Pearce Heuer, Villanova, Pa., assignor to General Refractories Company, a corporation of Pennsylvania

Application June 12, 1950, Serial No. 167,538

2 Claims. (Cl. 106—58)



1. In a refractory product, a non-acid refractory brick of densely compacted form in unfired condition consisting of non-acid refractory particles selected from the class consisting of refractory magnesia and mixtures of magnesia and chromite, containing in the refractory at least 5% of refractory magnesia and a bond between the particles composed of carbon dioxide in chemical combination with the magnesia at the bond.

2,656,280

STABILIZING CHROME ORES OF THE TRANSVAAL TYPE FOR REFRACTORY BRICK

Russell Pearce Heuer, Villanova, Pa., assignor to General Refractories Company, a corporation of Pennsylvania

No Drawing. Application January 12, 1953, Serial No. 266,244

9 Claims. (Cl. 106—59)

1. The process of stabilizing chrome ore having a mol ratio of Al_2O_3 plus Cr_2O_3 to MgO exceeding 1.75 for refractory brick purposes, which comprises mixing chrome ore having a mol ratio of Al_2O_3 plus Cr_2O_3 to MgO exceeding 1.75 (the mol ratio determination having been made on a sample from which silica was removed) with magnesia in the proportions of 20 to 80 percent by weight of magnesia, and forming the mixture into a refractory brick.

2,656,281

MOLDABLE COMPOUNDS FOR MAKING JIGS

Rene D. Wasserman, Stamford, Conn.

No Drawing. Application September 9, 1950, Serial No. 184,119

3 Claims. (Cl. 106—84)

2. A moldable quick setting compound adapted to serve as a temporary jig and consisting essentially of asbestos—40 to 88%; binder silicate—3 to 30%; alkali carbonate—6 to 20%; and metallic oxide, up to 15%.

2,656,282

METHOD FOR THE PRODUCTION OF IRON OXIDE FROM FERROUS SOLUTIONS

Charles Curtis Clarke, Grove City, Pa., assignor to Wheatland Tube Company, Wheatland, Pa., a corporation of Pennsylvania

No Drawing. Application January 26, 1951, Serial No. 208,080

2 Claims. (Cl. 106—304)

1. The method of producing a dark brown iron oxide with red-black undertone from an impure liquor having a ferrous content which comprises adjusting the pH of the impure liquor to within the range pH 2–pH 6 until a crud is formed, separating the crud, adjusting the pH of the residual liquor to about 9.6, elevating the temperature of the liquor to about 200° F., introducing an oxidizing gas into the liquor while maintaining pressure on the liquor of about 30 pounds per square inch until conversion of the ferrous content of the liquor to higher iron oxides is completed, washing the iron oxides and drying.

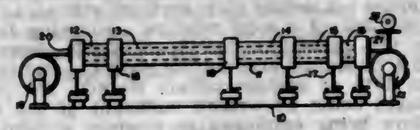
2,656,283

METHOD OF PLATING WIRE

Albert O. Fink and Alfred E. Bishop, Dayton, Ohio, assignors to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio

Application August 31, 1949, Serial No. 113,433

6 Claims. (Cl. 117—50)



1. The method of plating metal wire of continuous length which comprises continuously moving the wire therealong from a source of supply through a plurality of chambers including a gaseous metal plating chamber, heating said wire as the same is continuously moved along to a temperature sufficient to decompose a heat-decomposable gaseous metal compound brought in contact therewith, said moving hot wire being maintained in a non-oxidizing atmosphere, moving said heated wire into said plating chamber and subjecting the same to a continuously moving gaseous mass at least a portion of which comprises a heat-decomposable gaseous metal compound, said wire being heated to a temperature sufficient to cause decomposition of said heat-decomposable gaseous metal compound which is circulated in contact therewith and deposition of the metal constituent thereof on the surface of the wire as the same is continuously moved therealong, and maintaining a differential in gaseous pressures between said plating chamber and preceding and succeeding chambers, said pressures within the chambers adjacent the plating chamber being slightly higher than that within said plating chamber to prevent leakage of said gaseous metal compound from said plating chamber.

2,656,284

METHOD OF PLATING ROLLED SHEET METAL

Harry A. Toulmin, Jr., Dayton, Ohio, assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio

Application September 7, 1949, Serial No. 114,320

6 Claims. (Cl. 117—50)



1. A process of continuously plating a moving hot metal sheet as delivered from a mill which comprises the steps of guiding said hot metal sheet therealong while heated to a temperature between about 1300 and 1600° F., cooling the same under nonoxidizing atmospheric conditions, said metal sheet being cooled to a temperature which is sufficient to cause decomposition of a heat-decomposable metal vapor compound brought in contact therewith, subjecting said hot moving sheet to a plurality of gaseous metal plating treatments, said gaseous metal plating treatments comprising exposing said moving hot sheet in a plating chamber to a gaseous mass at least a portion of which consists of a heat-decomposable metal vapor compound, said plating chamber having chambers adjacent thereto which are kept under slightly higher gas pressure than in said plating chamber, said sheet being maintained at a temperature sufficient to cause decomposition of said heat-decomposable metal vapor compound and deposition of the metal constituent thereof on said moving hot metal sheet.

2,656,285

PRODUCTION OF COATED SOFT IRON AND STEEL SHEETS

Robert S. Burns and Robert L. Seiter, Middletown, Ohio, assignors to Armco Steel Corporation, Middletown, Ohio, a corporation of Ohio

Application June 3, 1948, Serial No. 30,856

8 Claims. (Cl. 117—51)



1. A process of softening cold reduced iron or mild steel sheet stock which comprises subjecting said stock to a strand anneal in an elongated furnace with two successive portions separated by baffles, introducing into said furnace in countercurrent to the stock passing therethrough a dry, hydrogen-bearing atmosphere, which fills the final portion of said furnace beyond said baffles, introducing moisture into the initial portion of said furnace ahead of said baffles whereby to bring the hydrogen-bearing atmosphere therein to a dew point of substantially 110° to 170° F., maintaining the said forward portion of said furnace at a temperature between substantially 1300 to 1650° F., maintaining the final portion of said furnace at a temperature above substantially 1700° F., cooling said stock from the temperature of the final portion of said furnace in a hood connected therewith and supplied with said dry hydrogen-bearing atmosphere, and, without reexposing said stock to the external atmosphere, passing it beneath the surface of a molten coating metal.

2,656,286

PROCESS OF COATING PAPER WEBS AND PRODUCT THEREOF

Harry C. Fisher, Cincinnati, and Brainard E. Seey, Middletown, Ohio, assignors, by mesne assignments, to Consolidated Water Power & Paper Company, Wisconsin Rapids, Wis., a corporation of Wisconsin

No Drawing. Application August 29, 1945, Serial No. 613,436

4 Claims. (Cl. 117—69)

1. A process of producing a non-gloss paperboard suitable for gloss ink printing which comprises applying to the surface of finished paperboard a coating of plasticizing agent in an aqueous vehicle and plasticizing the said surface by passing the paperboard through rolls, thereafter applying to the plasticized surface a coating of

mineral matter and starch in an aqueous vehicle by imprinting, one of said coatings containing a resin capable of reacting with starch to insolubilise it and the other of said coatings containing a catalyst for said insolubilizing reaction, heating the treated board so as to produce said reaction and insolubilize the starch thereon, and afterward passing said treated board through a calender stack and applying to the coated surface thereof in said calender stack a water solution of a sealing substance resistant to the vehicles of gloss printing inks in quantity sufficient to seal the pores of said starch-mineral matter coating without affecting the non-gloss characteristics thereof, the said sealing substance being a water soluble substance chosen from a class consisting of starch, methyl cellulose, carboxymethyl cellulose, carboxyethyl cellulose, polyvinyl alcohol, vegetable protein, sodium silicate and alginate compounds.

2,656,287

PROCESS FOR THE PRECISION EVAPORATION OF ANTIMONY

Richard L. Longini, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 29, 1949, Serial No. 102,124

2 Claims. (Cl. 117—107)

1. In the process of evaporating a predetermined precise thickness of the order of 350 angstroms of metallic antimony on a surface of a member, the steps comprising preparing a non-coherent, highly uniform mixture of a finely divided refractory metal oxide and finely divided metallic antimony, both of a fineness to pass through a sieve of at least 100 meshes to the inch, the sizes of the particles of the metal oxide and the metallic antimony being substantially uniform and closely the same, the weight of the metal oxide being equal to at least the weight of the antimony and functioning as a non-agglomerating agent for the antimony, thereby enabling small quantities of the antimony to be weighed out to a highly accurate degree, weighing out a small portion of the mixture to provide from about 0.1 to 10 milligrams of antimony, placing the weighed portion of the mixture at a predetermined distance from the surface being treated, evacuating the space between the weighed portion and the member, and heating the weighed portion to an elevated temperature below the temperature at which the metal oxide has any significant vapor pressure, to cause all of the antimony to evaporate from the metal oxide portion and the antimony vapors to condense on the surface as a coating of the required thickness.

2,656,288

PROCESS OF SURFACE TREATMENT FOR IMPROVING WEATHERING RESISTANCE OF CELLULOSE ACETATE-BUTYRATE PLASTICS

John W. Tamblyn and Roger M. Schulken, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application March 21, 1952, Serial No. 277,994

1 Claim. (Cl. 117—144)

A process of improving the weathering characteristics of molded articles of cellulose acetate-butyrate plastics, which comprises immersing the article for a period of approximately 15 minutes in a 50:50 ethyl alcohol:dimethyl carbonate mixture.

2,656,289

PROCESS AND COMPOSITION FOR WASHING GLASS

Dariel E. Miller, East Los Angeles, Calif., assignor to Kelite Products, Inc., Los Angeles, Calif., a corporation of California

No Drawing. Application January 21, 1949, Serial No. 72,069

2 Claims. (Cl. 134—42)

1. A composition for removing silica scale from glass surfaces by contacting the glass surface with an aqueous solution of the composition, said composition comprising: a solid admixture containing in percentage by weight from 15 to 40% potassium fluosilicate K_2SiF_6, from 40 to 60% of sodium acid sulfate $NaHSO_4$, and 50 to 10% of sodium sulfate Na_2SO_4.

2. A process of cleaning glass surfaces to remove silica scale without etching, which process comprises contacting glass surfaces with an aqueous solution of a solid mixture containing from 15 to 40% potassium fluosilicate K_2SiF_6, from 40 to 60% of sodium acid sulfate $NaHSO_4$, and from 50 to 10% of sodium sulfate Na_2SO_4, the percentages being by weight, sufficient of the admixture being employed to produce a solution containing from 0.03 to 0.12% potassium fluosilicate by weight, the process being conducted at a temperature of between 140° F. and the boiling point of the solution.

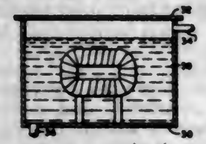
2,656,290

PROCESSES FOR PRODUCING ELECTRICAL COILS INSULATED WITH MICA AND SYNTHETIC RESINS AND THE PRODUCTS THEREOF

Leo J. Berberich and Harold M. Philofsky, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 21, 1952, Serial No. 294,896

27 Claims. (Cl. 154—2.28)



19. In the method of preparing a winding for an electrical machine, the winding comprising a slot portion and ends which ends are to be connected to other ends, the steps comprising wrapping the entire length of the winding conductor with a plurality of layers of a composite tape, the tape comprising essentially two superimposed sheets of pliable material, a layer of mica flakes disposed between the two superimposed sheets, and a liquid binder applied to the layer of mica flakes and the surfaces of the sheets of pliable material in contact with the mica flakes, the binder composed of a liquid, relatively non-volatile, resinous polymer of a viscosity of between 25 and 10,000 poises at 25° C., the liquid binder not exceeding 7% of the weight of the composite tape, applying a final wrapping of a tape consisting of glass fibers, heating the winding with the applied layers of tapes to a temperature not exceeding 175° C., cooling the wrapped winding to a temperature not substantially in excess of 50° C., applying a vacuum to the cooled conductor to withdraw volatiles therefrom, the heating and vacuum not removing more than a minor proportion of the liquid resinous polymer binder from the wrapping, vacuum impregnating the cooled winding with a completely reactive polymerizable composition comprising a monomeric compound having the group $H_2C{=}C<$, the polymerizable composition being compatible with the liquid resinous binder whereby the liquid polymerizable composition readily penetrates through the composite tape wrapping to the conductor and fills all the interstices and spaces in the wrapped winding, applying over the tape of glass fibers a relatively liquid-tight layer of a flexible tape of a resinous material impervious to and insoluble in the polymerizable composition, placing the wrapped, impregnated winding in a confining mold to form the wrappings to desired cross-sectional shape and to shape the slot-section portion of the winding, placing a compressed elastic confining means along the ends of the winding, shaped the ends of the winding to the desired configuration, heating the confined winding to polymerize the completely reactive polymerizable composition to a solid resin, removing the cured winding from the confining mold, removing the compressed elastic confining means from the winding ends, and removing the liquid tight layer of flexible tape.

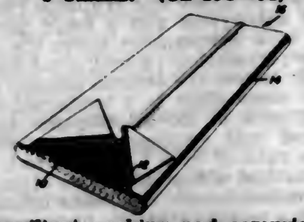
2,656,291

PAD

Martin Doll and Brendan L. Doll, High Point, N. C., assignors to Spaugh Paper Company, Incorporated, High Point, N. C., a corporation of North Carolina

Application April 2, 1951, Serial No. 218,782

5 Claims. (Cl. 154—54)



3. A resilient packing pad comprising one or more sheets of expanded flexible material having parallel rows of openings with the openings of one row staggered relative to the openings in an adjacent row, and an imperforate sheet of flexible material wrapped about the expanded flexible material.

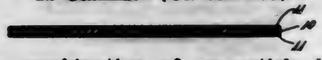
2,656,292

SHEET RUBBER HAVING A NONSTICKING LINER AND METHOD OF MAKING SAME

John R. Hoover, Stow, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application April 4, 1950, Serial No. 153,991

12 Claims. (Cl. 154—79)



2. The combination of an article having a tacky surface comprising a vulcanizable rubber composition, and a protective covering for said surface held in place thereon by the inherent tackiness of said surface but readily strippable therefrom without tearing and damaging said rubber and said covering, said covering comprising a continuous, flexible, self-sustaining and reworkable non-tacky layer in contact with said surface, said layer comprising a homogeneous mixture containing essentially from 5 to 95% by weight of a vinyl halide polymer and from 95 to 5% by weight of an interpolymer of a butadiene-1,3 hydrocarbon and an acrylic nitrile, said interpolymer having a Mooney viscosity of 3 to 120 as determined by the Mooney viscosimeter after 4 minutes at 212° F. using the 1.5 inch rotor.

3. The method of making a vulcanizable article having protective means for the surface thereof which comprises forming said article from a tacky vulcanizable rubber composition, providing a continuous, flexible, self-sustaining and reworkable film comprising a homogeneous mixture containing essentially from 40% to 75% by weight of a vinyl chloride polymer and from 60 to 25% by weight of a butadiene-1,3 acrylonitrile copolymer having a Mooney viscosity of 3 to 120 as determined by the Mooney viscosimeter after 4 minutes at 212° F. using the 1.5 inch rotor, said film characterized by being readily strippable from said rubber without tearing and damaging said rubber and said film and pressing said film against the surface of said tacky article.

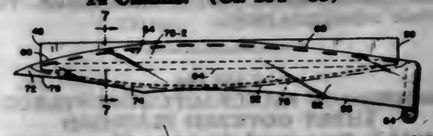
2,656,293

MULTIPLE GORE BALLOON MANUFACTURING PROCESS

William F. Huch, St. Paul, Minn., assignor to General Mills, Inc., a corporation of Delaware

Application December 5, 1951, Serial No. 259,978

14 Claims. (Cl. 154—85)



8. The method of forming gores for a multiple gore balloon from a strip of thin gas proof sheet material having straight parallel longitudinal edges, with the aid of a pattern having the shape of a complete single gore with gently curved opposite longitudinal edges, which comprises superimposing the pattern and a portion of the strip, aligning at least one straight edge of the strip with a substantial portion including from 25% to 100% of the length of the corresponding curved edge of the pattern, and cutting the strip along the remaining curved edges of the pattern thereby forming and severing from the strip a completed gore.

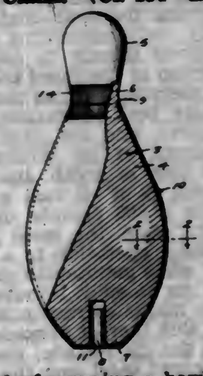
2,656,294

METHOD OF COVERING A BOWLING PIN

Warren L. Hunt, Mount Holly Springs, Pa.

Original application April 14, 1949, Serial No. 87,536, now Patent No. 2,610,057, dated September 9, 1952. Divided and this application March 10, 1950, Serial No. 148,815

1 Claim. (Cl. 154—121)



The method of covering a bowling pin with a fabric sleeve containing natural oils, which in-

cludes removing the natural oils from the sleeve, bonding the fabric to the pin with a polyvinyl acetate solution by dipping the pin and fabric covering in the solution, covering the bonding coating with a lacquer coating, said lacquer coating including nitro-cellulose, ethyl acetate, toluol, castor oil and a pigment.

2,656,295

METHOD FOR IMPROVING THE FLAME RESISTANCE OF METAL AND PRODUCT

Walter Frederick Locke, Emsworth, England, assignor to Fireproof Tanks Limited, London, England, a British company

No Drawing. Application December 13, 1950, Serial No. 200,699. In Great Britain December 30, 1949

6 Claims. (Cl. 154—128)

1. A method for improving the flame resistance of sheet material formed of a light metallic substance selected from the group consisting of aluminum and magnesium base metals, which comprises covering one face of the sheet material with at least one layer of woven fabric from the group consisting of glass and quartz fabric, impregnated with a vinyl halide, vinyl acetate copolymer resin.

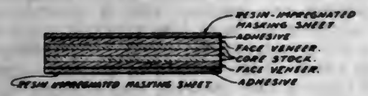
2,656,296

PROCESS OF MANUFACTURING FIBROUS SHEET COVERED PLYWOOD

Donald H. Grangaard, Appleton, Wis., assignor to Paper Patents Company, Neenah, Wis., a corporation of Wisconsin

Application June 5, 1951, Serial No. 229,951

4 Claims. (Cl. 154—132)



1. The improvement in the process of manufacturing fibrous sheet covered plywood the face of which plywood adjacent the fibrous sheet contains surface defects, which comprises the steps of impregnating a paper sheet having a basis weight, when dry, within the range of from 110 to 210 pounds for 500 sheets 24 by 36 inches, and a density within the range of from .55 to .80 gram per cubic centimeter, with a thermosetting aldehyde resin to provide a resin content in said sheet, atfer drying, within the range of from about 5 to 35% of the weight of the dry impregnated sheet; drying the resin-containing sheet; heating said dry, resin-containing sheet to cure the resin contained therein to such an extent that when a section of the cured sheet is pressed between a flat, metallic, backing plate and a flat, metallic, die plate, both approximately 8 inches by 8 inches square, said die plate having over the greater portion of its surface concentric lands 5/64 of an inch in width, spaced apart by concentric grooves 3/8 of an inch in width, with a force of about 12,800 pounds, uniformly distributed over the plate, the sheet being heated during the pressing operation to a temperature of about 300° F. while maintained under pressure for a period of six to eight minutes, said sheet is free of visible marks corresponding to the die pattern on the side thereof opposite to the side in contact with the die surface; placing at least one ply of said cured sheet over the exposed face of one of the outer veneers of a plywood assembly which face contains surface defects, when that assembly is placed in a plywood press; providing a glue line adhesive intermediate the resin-containing sheet and the adjacent veneer; and finally subjecting said assembly, in said press, to pressure within the range of from about 150 to 300 pounds per square inch and a temperature within the range of from about 260 to 325° F. to effect the joining of the plies of the plywood assembly and the attachment of the cured resin-containing sheet to the surface veneer solely by the adhesive action of said glue line.

2,656,297

METHOD OF BONDING A BODY OF POLYETHYLENE TO A SURFACE AND ADHESIVES USED THEREFOR

Howard G. Davis, Jr., Wellesley, William L. Durette, Cambridge, and Eric C. Johnson, Somerville, Mass., assignors to B. B. Chemical Co., Boston, Mass., a corporation of Massachusetts

No Drawing. Application April 2, 1949, Serial No. 85,272

15 Claims. (Cl. 154—139)

1. A polyethylene-containing composition readily dispersible in organic solvents to form stable non-gelling liquids, said composition consisting essentially of the product obtained by milling together polyethylene having a molecular weight of from 10,000 to 20,000 and synthetic rubber copolymer of isobutylene and a small proportion of a diene at a temperature above the melting point of the polyethylene, sheeting out the milled composition, cooling the sheeted mixture and remilling the composition at a temperature below the melting point of the polyethylene, the polyethylene and said synthetic rubber copolymer being in the ratio of from 1 to 4 to 4 to 1.

15. The method of bonding a body of polyethylene to a surface which comprises coating said surface with a volatile aromatic hydrocarbon solvent solution containing the product obtained by milling together polyethylene having a molecular weight of from 10,000 to 20,000 and synthetic rubber copolymer of isobutylene and a small proportion of a diene at a temperature above the melting point of the polyethylene, sheeting out the milled mixture, cooling the sheeted mixture to room temperature and remilling the sheeted mixture at a temperature below the melting point of the polyethylene, a polymer of isobutylene having a molecular weight of from 3,000 to 15,000, an oil-soluble thermoplastic resin and an anti-oxidant, the polyethylene and the said synthetic rubber copolymer being in the ratio of from 1 to 4 to 4 to 1, drying the film and pressing the polyethylene body against the dried film.

2,656,298

THERAPEUTIC PRODUCT

Leo Loewe, Brooklyn, N. Y., assignor to The Jacques Loewe Research Foundation, New York, N. Y., a corporation of New York

No Drawing. Application November 10, 1948, Serial No. 59,420

6 Claims. (Cl. 167—55)

1. A product comprising a therapeutic agent of the type which is impaired in effectiveness by passage through the peptic region, said agent being enclosed within an enteric covering including an anion exchange resin and a formalized protein.

2,656,299

PENICILLIN COMPOSITIONS

William Elias, West Goshen Township, Chester County, and Howard Joseph Merrien, Malvern, Pa., assignors, by mesne assignments, to American Home Products Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application June 30, 1948, Serial No. 36,294

7 Claims. (Cl. 167—58)

7. A dry antibiotic composition comprising, a sparingly water-soluble salt of penicillin and a dry, non-toxic, sterilizable synthetic gum hydrophilic suspending agent of small particle size, the majority of the particles ranging from about 5 to about 250 microns.

2,656,300

METHODS FOR PRODUCING STREPTOMYCIN AND VITAMIN B_{12}

Robert B. McCormack and Asger F. Langlykke, Highland Park, and David Perlman, Princeton, N. J., assignors, by mesne assignments, to Mathieson Chemical Corporation, Baltimore, Md., a corporation of Virginia

No Drawing. Application February 3, 1949, Serial No. 74,483

7 Claims. (Cl. 195—80)

7. In the method of producing a *Streptomyces griseus* metabolite of the group consisting of streptomycin and vitamin B_{12}, the steps of culturing *Streptomyces griseus* in contact with a liquid nutrient medium suitable for the production of said metabolite, subjecting the solids of the culture to extraction with an aqueous medium whose concentration of highly-dissociatable salts is substantially greater than that of the culture liquid, and separating the extract from the solids.

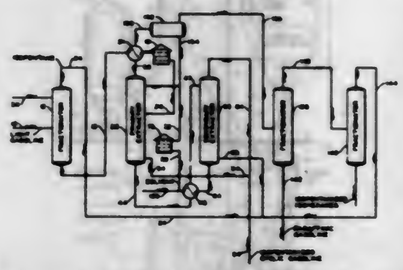
2,656,301

PROCESS FOR MAKING HIGH OCTANE GASOLINE

Robert A. Findlay, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application January 4, 1950, Serial No. 136,772

7 Claims. (Cl. 196—14.15)



1. A process for the production of a high octane number aviation fuel blending stock from a light gasoline which comprises subjecting a light gasoline to fractional distillation to separate same into at least one pentane cut and a heavier cut containing any cyclopentane present in the said light gasoline together with C_6 and heavier hydrocarbons referred to hereinafter as a C_6+ cut, subjecting said C_6+ cut to liquid-liquid solvent extraction with a solvent selected from the group consisting of aqueous methanol and aqueous acetonitrile under conditions selectively dissolving in said solvent cyclic hydrocarbons present in said cut, separating from said liquid-liquid solvent extraction a cyclic-poor raffinate phase and a cyclic-rich extract phase, subjecting said extract phase in a second step to liquid-liquid contacting with a hydrocarbon washing liquid at least partially composed of said pentane cut under conditions forming a cyclic-poor solvent phase and a cyclic-rich hydrocarbon phase, and recycling said solvent phase to the first named liquid-liquid solvent extraction step as solvent therefor, at least the cyclic hydrocarbon content of said last named cyclic-rich hydrocarbon phase from said second liquid-liquid contacting step comprising the aforesaid high octane number aviation fuel blending component product of the process.

2,656,302

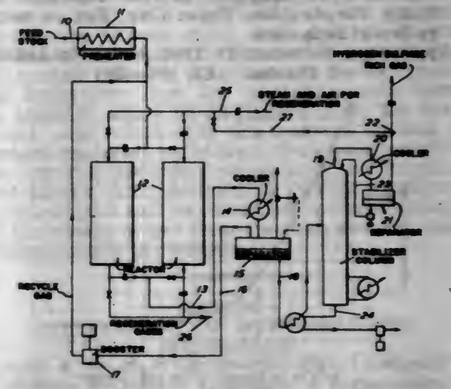
CATALYTIC DESULFURIZATION OF PETROLEUM HYDROCARBONS

Frederick William Bertram Porter and John Norman Haresnape, Sunbury-on-Thames, England, assignors to Anglo-Iranian Oil Company Limited, London, England, a British joint-stock corporation

Application September 20, 1950, Serial No. 185,704

In Great Britain September 22, 1949

5 Claims. (Cl. 196—28)



1. In a continuous process for the hydrocatalytic desulphurization of a sulphur-and-naphthene-containing hydrocarbon oil wherein the oil is contacted in a reaction zone at an elevated temperature and pressure in the presence of hydrogen with a dehydrogenation-hydrogenation catalyst which has been pretreated with hydrogen sulphide and which is immune to sulphur poisoning and combining activity for the dehydrogenation of naphthenes in said oil to aromatics with activity for the hydrogenation of organically combined sulphur in the oil to hydrogen sulphide, the method of operating the process so that it will be self-supporting with respect to the amount of hydrogen needed and give increased dehydrogenation and desulphurization during the early hours on stream and consume considerably less hydrogen than heretofore required for the purpose of pretreating the catalyst and produce a desulphurized oil; comprising the steps of passing the hydrocarbon oil to be treated through said reaction zone and contacting the oil therein with hydrogen derived solely from the oil and with said catalyst which has been pretreated with hydrogen sulphide derived solely from the oil, said conditions of elevated temperature and pressure being such that sufficient hydrogen is produced by dehydrogenation of naphthene hydrocarbons contained in

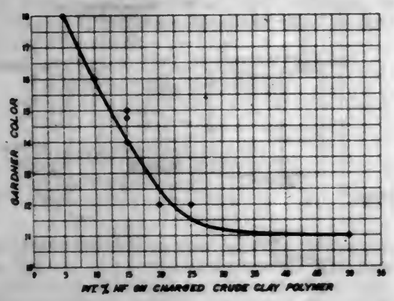
the oil to effect the conversion of sulphur compounds contained in the oil into hydrogen sulphide and to provide a hydrogen-rich gaseous mixture which is recycled to the catalytic desulphurization zone in order to maintain the necessary partial pressure of hydrogen therein, passing the desulphurized oil to a gas separation stage maintained under the desulphurization pressure but reduced temperature, separating a hydrogen-rich gas mixture, and leaving a liquid product containing the bulk of the hydrogen-sulphide obtained from the reaction in solution, recycling said hydrogen-rich gas mixture to the reaction zone to constitute the whole of the hydrogen supplied to said zone, passing said hydrogen-sulphide-containing liquid product to a stabilizing stage for the separation of a hydrogen-sulphide-rich gas, separately regenerating catalyst for use in said process, and passing said hydrogen-sulphide-rich gas back to the regenerating system for treating the catalyst in said regenerating system just after it has been regenerated.

2,656,303

REFINING HYDROCARBON RESINS

Robert J. Lee, La Marque, and Paul D. May, Galveston, Tex., assignors to Pan American Refining Corporation, Texas City, Tex., a corporation of Delaware

Application February 17, 1950, Serial No. 144,612
7 Claims. (Cl. 196—39)



1. A process for refining a clay polymer drying resin produced by the selective polymerization of the color and gum-forming constituents of a cracked naphtha, which process comprises contacting said resin with liquid, substantially anhydrous hydrogen fluoride in an amount between about 10 and about 50 percent by weight, based on said resin, at a temperature between about 50 and about 150° F. under pressure sufficient to maintain the liquid phase and thereafter separating a layer of refined hydrocarbon drying resin which is insoluble in liquid hydrogen fluoride and a layer of liquid hydrogen fluoride containing colored impurities, said refined hydrocarbon drying resin containing substantially no conjugated double bonds as indicated by its maleic anhydride value.

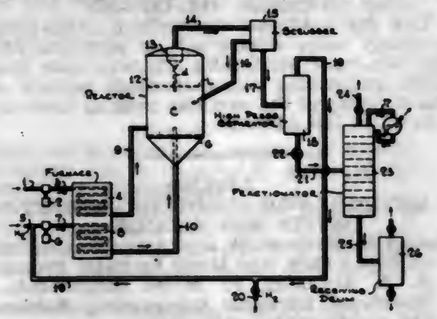
2,656,304

CONTINUOUS FLUID HYDROFORMING

Robert E. MacPherson, Jr., Cranford, and Otto Schricker, Jr., Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application February 28, 1951, Serial No. 213,238
5 Claims. (Cl. 196—50)

1. The method of hydroforming naphtha containing a substantial amount of naphthenic hydrocarbons which comprises feeding the said naphtha to a reaction zone simultaneously feeding to said reaction zone a hydrogen-containing gas, the amount of hydrogen-containing gas being from about 5500–7500 cu. ft. per barrel of oil, the said hydrogen-containing gas having a concentration of from 55–75% hydrogen, maintaining in said reaction zone a fluidized bed of hydroforming catalyst comprising essentially a



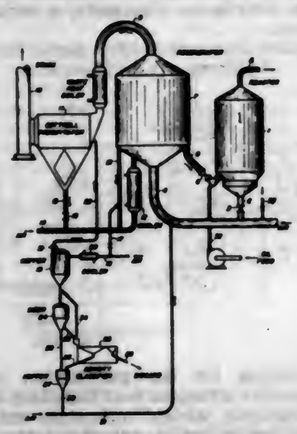
difficulty reducible heavy metal oxide of a metal of the IV and VI groups of the Periodic System, maintaining a temperature in the said reaction zone of from about 875–950° F., maintaining a hydrogen partial pressure within the said reaction zone of from about 450–460 p. s. i. g., permitting the reactants to remain resident in the reaction zone for a sufficient period of time to effect the desired conversion and recovering from said reaction zone a product of increased aromaticity.

2,656,305

CRACKING WITH MIXED CATALYSTS

Clare Kenneth Viland, Martinez, Calif., assignor to Tide Water Associated Oil Company, San Francisco, Calif., a corporation of Delaware

Application March 16, 1950, Serial No. 149,915
1 Claim. (Cl. 196—52)



In a process of catalytically cracking hydrocarbons wherein a body of powdered catalyst in the form of a fluid bed is contacted with hydrocarbon vapors to be cracked in a reaction zone, a body of catalyst is contacted with oxygen in a regeneration zone, catalyst is continuously transferred from said reaction zone to said regeneration zone, catalyst is continuously transferred from said regeneration zone to said reaction zone, and said catalyst in the reaction and regenera-

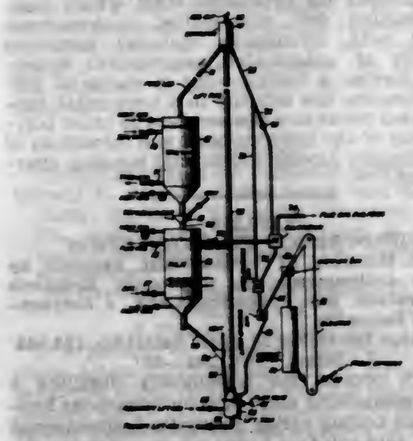
tion zones is composed of a mixture of two types, one type being synthetically precipitated silica-alumina gels, the particle density of which increases from about 0.8 when fresh to about 1.0 when used and the apparent bulk density increases from about 0.5 to about 0.6, the other type being acid-treated montmorillonite clays, the particle density of which increases from about 1.2 when fresh to about 1.65 when used and the apparent bulk density increases from about 0.72 to about 1.0 so that the two types of catalyst when in fresh condition differ from each other in particle density to a greater extent than the differences between new and aged catalyst of each type, said mixture having a resulting product distribution intermediate that of the two said materials, the method of avoiding the removal of a proportionate amount of the expensive, long-lifed synthetic catalyst along with the cheaper short-lifed natural catalyst when it is desired to maintain a desired activity level in the system, which comprises: withdrawing from the regeneration zone a quantity of mixed catalyst, cooling the withdrawn mixture, separating the finer particles, smaller than 200 mesh, from the withdrawn mixture and returning them to the system, separating by density the remaining coarser particles into a smaller quantity of heavier particles for discard, and a larger quantity of lighter coarser particles for reuse, whereby the discarded quantity will be composed predominately, if not entirely, of natural catalyst and the desired catalyst equilibrium in the system may be maintained by replacing synthetic catalyst to equal that lost to the stack, and replacing the amount of natural catalyst lost to the stack, plus the quantity of natural catalyst discarded, roughly one percentum per day.

2,656,306

METHOD AND APPARATUS FOR CONDUCTING MOVING CONTACT MATERIAL HYDROCARBON CONVERSION PROCESSES

Eric V. Bergstrom, Short Hills, and Edward R. Serf, Fanwood, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

Application May 25, 1951, Serial No. 228,293
15 Claims. (Cl. 196—52)



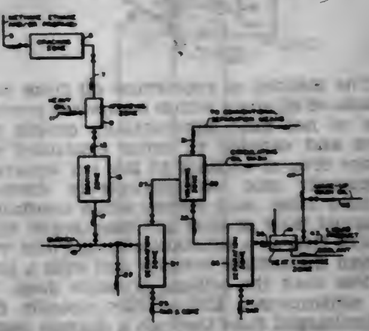
15. In a process wherein a granular contact material is passed cyclically through two contacting zones, one being a reaction zone wherein it flows downwardly as a substantially compact column while contacting a fluid hydrocarbon charge to effect conversion of said charge to gasiform products and the other zone being a reconditioning zone wherein the contact material flows downwardly as a substantially compact column while being contacted with a suitable gas to effect its reconditioning for reuse in said conversion zone and the contact material is withdrawn as a substantially compact column from the bottom of one of the zones to a feeding zone wherein a suspension of the contact material is effected in an upwardly flowing stream of lift gas and said contact material is lifted in said stream to a separation zone located above the other of said contacting zones from where the major portion of the contact material is gravitated downwardly from the bottom of said separation zone as a substantially compact column to the top of the other of said contacting zones, the improvement which comprises: gravitating a substantially compact column of contact material downwardly into a combining zone at a first location, so as to form a bed of solid material in said zone, introducing a second stream of contact material into said combining zone at a second location adjacent said first location, so as to drop onto the surface of the established bed of contact material in said combining zone, withdrawing a substantially compact column of contact material downwardly from the bottom of said combining zone at a third location, substantially directly below said second location but laterally displaced from said first location, so that an imaginary line connecting the nearest point of the column of contact material supplied to the combining zone with the nearest point of the column of contact material withdrawn from the combining zone forms an angle of about 65–80 degrees with the horizontal, and discharging the compact column of contact material withdrawn from said combining zone into the high pressure zone, the length of said column being sufficient to provide a substantially compact seal leg of contact material, whereby the escape of gas from the high pressure zone is substantially prevented.

2,656,307

CONVERSION OF HYDROCARBON MATERIALS

Robert A. Findlay, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application December 15, 1949, Serial No. 133,026
11 Claims. (Cl. 196—66)



1. A process for converting ethane and liquid high-boiling hydrocarbon materials selected from the group consisting of heavy gas oil, fuel oil, crude residuum and mixtures thereof, which comprises: passing ethane into a first conversion zone and therein thermally converting same at a temperature of from 1300 to 2500° F., at a pressure of from 5 to 40 pounds per square inch absolute

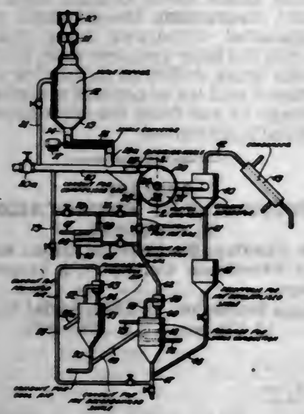
and at a contact time of from 0.001 to 1 second; withdrawing resulting products of conversion from said first conversion zone and passing same into an atomizing zone; passing such a liquid high-boiling hydrocarbon material into said atomizing zone; directly contacting said resulting products of conversion from said first conversion zone and said liquid high-boiling hydrocarbon material in said atomizing zone, thereby vaporizing a portion, atomizing a remaining portion and heating to conversion temperature said high-boiling hydrocarbon material, and quenching said resulting products of conversion from said first conversion zone below conversion temperature; directly passing a resulting mixture of vapors and atomized high-boiling hydrocarbon materials into a second conversion zone and therein thermally converting said high-boiling materials at a temperature of from 950 to 1450° F., a pressure of from 5 to 40 pounds per square inch absolute and a contact time of from 0.2 to 3.5 seconds; and withdrawing resulting vapors and atomized high-boiling hydrocarbon materials from said second conversion zone and directly contacting same with a quench medium, thereby quenching to a temperature below 900° F.

2,656,308

DISTILLATION OF OIL-SHALE

Elmore S. Pettyjohn, Evanston, Ill., assignor to The Institute of Gas Technology, Chicago, Ill., a corporation of Illinois

Application September 16, 1950, Serial No. 185,273
2 Claims. (Cl. 202—17)



1. The method of recovering oil from coarsely fragmented oil shale which comprises providing a source of hot fluid substantially devoid of free oxygen and capable of being expanded with a pressure drop of at least 15 lbs. per square inch; continuously and uninterruptedly discharging said fluid from said source while confining the discharged fluid so that the discharged confined fluid will flow at a substantially uniform velocity less than the critical velocity and with a pressure drop less than the critical pressure drop; thereafter continuously and uninterruptedly flowing said discharged fluid through a sharply restricted area so as suddenly to accelerate said fluid to critical velocity by instantaneously reducing the fluid pressure by at least 15 lbs. per square inch; concurrently, continuously and uninterruptedly introducing said shale, in the form of granules capable of freely passing through said restricted area, into said flowing confined fluid upstream of said restricted area; controlling the flow of said confined fluid from the point of introduction of said shale to said restricted area so that said shale will be entrained by said fluid; adjusting the amount of shale introduced into said fluid to a value less than 10 parts by weight for each part of fluid; said shale granules being subjected while entrained to the first acceleration to critical velocity of said fluid as said fluid flows from said source to and through said restricted area whereby said granules are shattered and there is formed a rapidly flowing suspension of shattered particles in expanded fluid; said shale up to this point being maintained at an elevated temperature below the temperature at which said shale particles tend to adhere together; confining said suspension within a cylindrical axially limited space while forming said suspension into a vortex, the rate of flow in said vortex being such that shattered particles are kept circulating within said space and thereby further comminuted; incorporating with said vortex additional fluid formed as combustion gas during the combustion step recited hereinbelow and substantially devoid of free oxygen and sufficiently hot to maintain the temperature in said vortex at a point where said shale will be devolatilized; withdrawing from the center of said vortex hot fluid having suspended therein relatively fine particles of devolatilized shale; separating said devolatilized shale from said hot fluid; condensing the oily fraction of said fluid to recover the oil content of said shale; and forming the separated devolatilized hot shale into a fluidized bed and burning off the carbon content of said shale by flowing through said bed a gas preheated as recited hereinbelow and containing free oxygen; and forming the decarbonized shale into a fluidized bed by flowing a gas containing free oxygen through said bed of decarbonized shale whereby said gas is preheated.

2,656,309

PROCESS OF COKING A MIXTURE OF A CARBONACEOUS MATERIAL AND A HIGH BOILING BITUMINOUS PITCH

Walter T. Brown, Pittsburgh, Pa.

No Drawing. Application February 5, 1951, Serial No. 209,519
18 Claims. (Cl. 202—33)

1. A process for producing coke, which comprises mixing dry, non-coking, carbonaceous material with bituminous material composed essentially of unsaturated, polynuclear hydrocarbons having a boiling point in excess of 300° C., and heating the mixture in a horizontal, bottom-heated retort to a temperature to cause polymerization of the hydrocarbons and formation of giant polymers having substantial bonding characteristics.

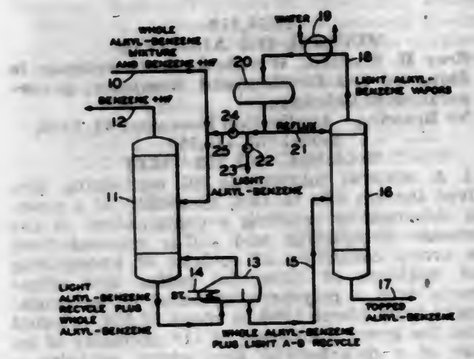
2,656,310

HYDROCARBON FRACTIONATION

Leland L. Henning, El Cerrito, Calif., assignor, by mesne assignments, to California Research Corporation, San Francisco, Calif., a corporation of Delaware

Application December 20, 1949, Serial No. 134,048
2 Claims. (Cl. 202—40)

1. In a process for fractionally distilling a mixture comprising alkyl aryl hydrocarbons having a wide boiling range, aromatic hydrocarbons and HF, said mixture being separated from the reaction product obtained by contacting mixed olefinic hydrocarbons having a wide boiling range with a molar excess of aromatic hydrocarbon in the presence of HF; the steps which comprise continuously passing said mixture into a first distillation zone and separating in said first zone a first overhead fraction consisting essentially of unreacted aromatic hydrocarbon and HF and a bottoms fraction comprising a mixture of alkyl aryl hydrocarbon having a wide boiling range, continuously passing said bottoms fraction into a second distillation zone and separating, in said



distillation zone, a second minor overhead fraction comprising the lower boiling alkyl aryl hydrocarbons, condensing said second overhead fraction and introducing a substantial portion of the condensate into said first distillation zone, together with said mixture to substantially reduce the bubble point thereof.

2,656,311

STABILIZATION OF PHENOL ALKYLATES

Donald R. Stevens, Wilkinsburg, and Samuel C. Camp, Richland Township, Allegheny County, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application October 31, 1949, Serial No. 124,721
5 Claims. (Cl. 202—57)

1. A method of inhibiting the dealkylation of crude acidic alkylated phenols at elevated temperatures which comprises adding to the alkylated phenols and maintaining therein at least 1.5 times the stoichiometric quantity of an alkali metal phenate necessary to neutralize the extraneous non-phenolic acidic matter in said alkylated phenols.

2,656,312

STABILIZATION OF PHENOL ALKYLATES

Donald R. Stevens, Wilkinsburg, and Samuel C. Camp, Richland Township, Allegheny County, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application October 31, 1949, Serial No. 124,725
8 Claims. (Cl. 202—57)

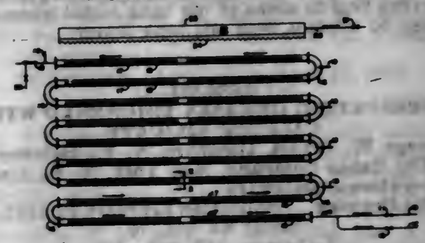
1. A method of inhibiting the dealkylation of crude acidic alkylated phenols at elevated temperatures which comprises washing said alkylated phenols with a non-acid aqueous medium, adding to the washed alkylate an aqueous 10 to 40 per cent sodium hydroxide solution in an amount corresponding to at least the stoichiometric quantity necessary to neutralize the extraneous non-phenolic acidic matter in said washed alkylate, and heating the resulting solution to a temperature between about 75° and 100° C.

2,656,313

PHOTOCHEMICAL PRODUCTION OF BENZENE HEXACHLORIDE

Leo A. Miller, James H. Dunn, and Clarence M. Neher, Baton Rouge, La., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware

Application May 10, 1949, Serial No. 92,266
1 Claim. (Cl. 204—163)



A continuous process for reacting chlorine with benzene to produce benzene hexachloride containing the gamma isomer, comprising subjecting a moving stream of chlorine and benzene to the influence of actinic light at a temperature between 20° and 80° C. in a reaction zone having a restricted cross section with a hydraulic radius between 0.5 and 1.5 inches and under a pressure of at least about 5 pounds per square inch, controlling the ratio of chlorine to benzene in the stream to maintain the density of the resulting solution, measured at 20° C., in accordance with that given by the equation

$$d=0.8922+0.00237T$$

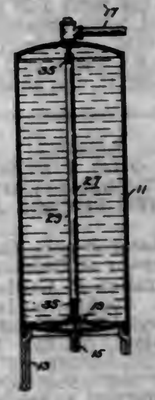
wherein: d=density at 20° C. in grams per cubic centimeter, and T=solution temperature, °C., to prevent a solid phase of benzene hexachloride from forming, and recovering benzene hexachloride from said stream.

2,656,314

CORROSION PREVENTING MEANS

Clark M. Osterheld, Stoughton, Wis., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware

Application May 28, 1947, Serial No. 750,900
14 Claims. (Cl. 204—197)



1. The combination with a ferrous metal domestic hot water tank in which cold water supplied from any of the conventionally available water sources is recurrently input and heated, and from which hot water is withdrawn at recurrent times and in varying amount according

to demand, of anti-corrosion means for protecting the tank interior against corrosion comprising an elongated sacrificial magnesium metal anode of substantially smaller cross-section than the tank located within the tank to be surrounded by the tank water and relatively distant from areas of the tank to be protected, and electrically conductive means connecting the anode to the tank and adapting the anode to supply a galvanic current flow to areas of the tank metal when exposed to contact with the tank water.

2,656,315

LUBRICATING GREASES THICKENED WITH CALCIUM SILICATE

George W. Eckert, Glenham, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application February 27, 1952, Serial No. 273,775
7 Claims. (Cl. 252—21)

1. A lubricating grease comprising an oleaginous liquid as the predominating constituent, and about 5 to 45 per cent by weight based on the weight of the grease of a precipitated hydrated calcium silicate having a particle size of not more than 100 millimicrons in diameter.

2,656,316

LUBRICATING OILS CONTAINING METAL SALTS OF A CONDENSATION PRODUCT OF A SUBSTITUTED PHENOL AND A VINYL COMPOUND

Loren L. Neff, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Application July 17, 1950, Serial No. 174,367
15 Claims. (Cl. 252—33.4)

1. A mineral lubricating oil containing between about 0.05 and about 20% by weight of an oil-soluble metal salt of the acidic condensation product of a hydrocarbon substituted phenol, in which the hydrocarbon substituent contains between about 4 and about 30 carbon atoms, and a vinyl compound selected from the class consisting of divinyl ether, vinyl ethyl ether, vinyl propyl ether, vinyl esters of hydrohalogen acids and vinyl esters of fatty acids containing between 1 and 6 carbon atoms in the fatty acid radical, said condensation product being obtained by condensing said phenol with said vinyl compound in the molar ratio of between 0.5 and 3 to 1 at temperatures between about —20° C. and about 150° C.

2,656,317

LUBRICATING OILS CONTAINING METAL SALTS OF A CONDENSATION PRODUCT OF A SUBSTITUTED PHENOL AND AN ALLYL COMPOUND

Loren L. Neff, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Application July 17, 1950, Serial No. 174,368
15 Claims. (Cl. 252—33.4)

1. A mineral lubricating oil containing between about 0.05 and about 20% by weight of an oil-soluble metal salt of the acidic condensation product of a hydrocarbon substituted phenol, in which the hydrocarbon substituent contains between about 4 and about 30 carbon atoms, and an allyl compound selected from the class consisting of allyl alcohol, diallyl ether, allyl ethyl ether, allyl propyl ether, allyl esters of hydrohalogen acids and allyl esters of fatty acids containing between 1 and 6 carbon atoms in the fatty acid radical, said condensation product being obtained by condensing said phenol with said allyl compound in the molar ratio of between 0.5 and 3 to 1 at temperatures between about —20° C. and about 150° C.

2,656,318

MINERAL OIL ADDITIVE

Jeffrey H. Bartlett, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 31, 1949, Serial No. 136,393
19 Claims. (Cl. 252—46.6)

1. A mineral lubricating oil containing dissolved therein 0.01 to 15% by weight of a product obtained by reacting a combination of the elements phosphorus and sulfur selected from the group consisting of sulfides of phosphorus and mixtures of elemental sulfur and phosphorus with a polymeric material of molecular weight from about 1000 to about 50,000, selected from the group consisting of (1) polymers of an ester of a dicarboxylic acid which contains a double bond in an α,β position and which contains a total of two to four carbon atoms exclusive of the carboxyl groups, such ester having as esterifying groups aliphatic hydrocarbon radicals each containing 6 to 22 carbon atoms, the average number of carbon atoms in the radicals being 8 to 18, and (2) copolymers of an ester so defined and a compound of the formula

$$CH_2=\overset{R}{\overset{|}{C}}-X$$

where R is a member of the group consisting of hydrogen and methyl radicals and where X is a member of the group consisting of (1) fatty acid radicals containing alkyl radicals of 2 to 18 carbon atoms, (2) aryl radicals, and (3) aryl radicals having at least one alkyl side chain, such side chain containing not more than four carbon atoms, such copolymer being prepared from a mixture containing at least 25%, on a molecular basis, of at least one dibasic acid ester of the type defined above, said reaction being carried out at a temperature in the range of about 200° to about 500° F. with an amount in the range of about 1 to 25% by weight, based on said polymeric material, of said combination of said elements, the atomic ratio of phosphorus to sulfur in said combination being in the range of about 1:1 to 1:30.

2,656,319

MAGNETIC CORE COMPOSITION AND METHOD OF PRODUCING THE SAME

Godshalk Berge, Chicago, Ill., assignor to Aladdin Industries, Incorporated, Chicago, Ill., a corporation of Illinois

No Drawing. Application January 3, 1949, Serial No. 69,044
10 Claims. (Cl. 252—62.5)

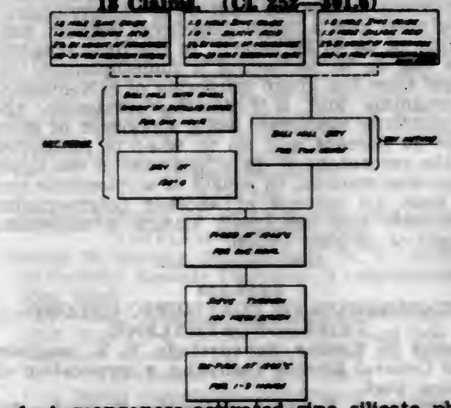
1. A magnetic core containing a complex compound comprising the product of the reaction of a metal oxide selected from the group consisting of Ni_2O_3, Co_2O_3 and mixtures thereof with Fe_2O_3 in substantially equal molecular proportions at about 2000–2500° F. for 1–4 hours, zinc ferrite, vanadium ferrite and magnesium zirconate in which the materials when calculated on the basis of their oxides are present in amounts ranging from 5–20 parts by weight cobalt oxide, 10–25 parts by weight nickel oxide, 40–60 parts by weight iron oxide, a small amount up to about 15 parts by weight zinc oxide, a small amount up to about 10 parts by weight vanadium oxide, and a small amount up to about 12 parts by weight of the magnesium zirconate.

2,656,320

ZINC SILICATE PHOSPHOR

Rudolph Nagy and Robert W. Wellentin, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application May 12, 1948, Serial No. 26,488
18 Claims. (Cl. 252—301.6)



1. A manganese-activated zinc silicate phosphor for fluorescent lamps additionally activated by one of the elements selected from the group consisting of magnesium and zirconium in mole proportions about .005 to .10 and about .005 to .20, respectively.

2,656,321

METHOD FOR MAKING ALUMINA HYDROSOLS

Edward A. Hunter and Charles N. Kimberlin, Jr., Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application March 6, 1951, Serial No. 214,158
9 Claims. (Cl. 252—313)

2. A method for preparing alumina hydrosols which comprises mixing anhydrous aluminum alcoholate with an anhydrous peptizing agent selected from the group which consists of acetic acid, formic acid, propionic acid, glycolic acid, lactic acid, tartartic acid, hydrogen chloride, hydrogen bromide, aluminum chloride and aluminum bromide, adding water to the resulting mixture to hydrolyze the alcoholate and regenerate the alcohol at a temperature between about 60° and 220° F. and separating alumina hydrosol from the mixture.

2,656,322

CATALYST AND METHOD OF PREPARING SAME

Jack F. Eberle, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application January 4, 1949, Serial No. 69,112
23 Claims. (Cl. 252—435)

1. A catalyst consisting essentially of at least one metal of the group consisting of Al, Cd, Zn, and Cu coated with a solid material obtained by calcining a mixture of an acid of the group consisting of oxygen-containing acids of phosphorus, chromic acid, and tungstic acid and the reaction product of said metal and said acid.

2,656,323

MANUFACTURE OF PHOSPHORIC ACID-GROUP IV METAL OXIDE CONTAINING CATALYST

Mitchell S. Bielawski, Berwyn, and Julian M. Mavity, Hinsdale, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application April 12, 1949, Serial No. 87,133
9 Claims. (Cl. 252—435)

1. A process for manufacturing a solid catalyst which comprises mixing at least 50% by weight of a phosphoric acid, an uncalcined siliceous adsorbent, and not over approximately 10% by weight of a member of the group of compounds consisting of an oxide, a hydroxide, and a salt of a metal of the left hand column of group IV of the periodic table, pelleting the resultant mixture, and calcining the pellets at a temperature of from about 500° to about 1000° F.

2,656,324

METHOD OF MAKING RUBBERY COMPOUNDS SUITABLE FOR PRODUCTION OF TIRE TREADS

Theodore A. Te Grotenhuis, Olmsted Falls, Ohio

No Drawing. Application July 4, 1945, Serial No. 603,256
4 Claims. (Cl. 260—5)

1. A method of preparing a plastic heterogeneous compound for the production of tire treads and the like which comprises incorporating carbon black into a latex of a vulcanizable water-insoluble polymer, coagulating the mixture thus obtained to form a plastic compound having a base of said polymer and containing substantial amounts of carbon black, separately forming a continuous phase of more plastic matrix compound having a base of a vulcanizable water-insoluble polymeric material and also capable of being vulcanized to a soft rubbery state, dispersing particles of the separately mixed less plastic compound into a continuous phase of said more plastic matrix compound, and masticating the resultant mix to cause blending of the interface between particles of the less plastic compound and said matrix compound, both of said compounds when vulcanized being characteristic of a soft vulcanized, as distinguished from a hard vulcanized, rubber compound, the amount of carbon blacks present in the less plastic of said compounds being greater than the amount in said more plastic compound, said polymer and said polymeric material being selected from members of the group consisting of plastic natural rubber and polymers of a conjugated diolefinic compound having less than 8 carbon atoms, the difference between plasticities of said compounds being at least 20 points on a Mooney plastometer.

2,656,325

DYEABLE ACRYLONITRILE COPOLYMERS

Paul W. Gann and George E. Ham, Dayton, Ohio, assignors, by mesne assignments, to The Chemstrand Corporation, a corporation of Delaware

No Drawing. Application February 27, 1950, Serial No. 146,634
16 Claims. (Cl. 260—29.1)

1. A method of preparing viscosity-stabilized dyeable acrylonitrile copolymer solutions, which comprises dispersing a copolymer of 80 to 99 per-

cent acrylonitrile and from one to 20 percent of a compound selected from the group consisting of vinyl chloroacetate and vinyl bromoacetate in a solvent for said copolymer, mixing the solution with a compound of the class consisting of trimethylamine and triethylamine, and mixing the treated dispersion with an aliphatic ester of an acid having a dissociation constant greater than 10^{-4}.

2,656,326

DYEABLE ACRYLONITRILE COPOLYMERS

George E. Ham, Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation, a corporation of Delaware

No Drawing. Application March 23, 1950, Serial No. 151,523
12 Claims. (Cl. 260—29.1)

1. A method of preparing dyeable acrylonitrile copolymers, which comprises heating a copolymer of 75 to 99.5 percent of acrylonitrile and 0.5 to 25 percent of methallyl haloacetate, with a compound selected from the group consisting of triethylamine and trimethylamine.

2,656,327

PIGMENT PASTE

Alfred E. Van Wirt and George F. Jones, Glens Falls, N. Y., assignors to Imperial Paper and Color Corporation, a corporation of New York

No Drawing. Application October 30, 1948, Serial No. 57,626
1 Claim. (Cl. 260—29.4)

A pigmented coating composition comprising an aqueous continual external phase, a dispersed pigment, a thickener, a cationic water soluble resin which is produced by reacting 1 mol of urea with from 2 to 3 mols of formaldehyde in the presence of at least one-third mol of a compound selected from the group consisting of pyridine, quinoline, water soluble aliphatic amines having at least one hydrogen attached to the amino nitrogen and hydroxy tertiary aliphatic amines, until a solution is obtained and then acidifying the mixture to a pH between 0.5 and 2.0, and immediately neutralizing to a pH of from 6.0 to 7.0; and an anionic polymeric material of the group consisting of polystyrene, polyvinyl chloride and polyvinyl acetate, said anionic resin being present in an amount varying from 5% to 15% by weight based on the weight of the composition, said cationic resin being present in an amount sufficiently great to redisperse the anionic resin, the cationic resin of said composition being convertible to an insoluble state by heat.

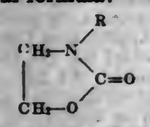
2,656,328

ACRYLONITRILE POLYMER SOLUTIONS AND ARTICLES FORMED THEREFROM

John R. Caldwell, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application May 18, 1951, Serial No. 227,103
6 Claims. (Cl. 260—30.4)

1. As a new composition of matter a polymer of acrylonitrile, containing in the polymer molecule less than about 90% by weight of acrylonitrile, plasticized with a water-insoluble compound having the general formula:



wherein R represents a member selected from the groups consisting of iso-butyl, n-hexyl, cyclohexyl, 2-ethylbutyl, heptyl, 2-ethyl hexyl, n-octyl, phenyl, tolyl and xylyl groups.

2,656,329

SYNTHETIC FIBER PREPARATION

George E. Ham, Decatur, Ala., assignor to The Chemstrand Corporation, Decatur, Ala., a corporation of Delaware

No Drawing. Application October 15, 1952, Serial No. 314,951
6 Claims. (Cl. 260—30.6)

1. A fiber-spinning composition comprising a homogeneous miscible mixture of an acrylonitrile copolymer and a liquid dispersion medium consisting of 30 to 99 percent of diethyl phosphite and one to 70 percent of a dimethylamide selected from the group consisting of N,N-dimethylacetamide and N,N-dimethylformamide, the acrylonitrile copolymer being a polymer of more than 90 percent and up to 90+0.14 multiplied by the percentage of dimethylamide in the liquid dispersion medium, by weight of acrylonitrile and at least 0.2 percent of another polymerizable monomer, said copolymer having a molecular weight of at least 10,000.

2,656,330

SUSPENSIONS OF POLYMERIC CHLOROTRIFLUOROETHYLENE

Murray M. Sprung, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Original application November 25, 1949, Serial No. 129,532. Divided and this application January 16, 1953, Serial No. 331,729
14 Claims. (Cl. 260—31.8)

1. A liquid suspension comprising a dispersed phase consisting essentially of finely divided, solid, high molecular weight polychlorotrifluoroethylene and a dispersing medium for the solid polychlorotrifluoroethylene comprising (1) an organic liquid which is a solvent for the aforesaid solid polymer at elevated temperatures but whose solvent characteristic is effective at a temperature below the boiling point of the liquid, the aforementioned liquid being selected from the class consisting of dibutyl phthalate, dibutyl sebacate, butyl stearate, dibutyl adipate, dioctyl sebacate, methyl stearate, tributyl citrate, tributyl tricarballylate, acetyl tributyl citrate, dihexyl tetrachlorophthalate, dioctyl tetrachlorophthalate, triethylene glycol di-(2-ethylhexoate), and beta-naphthyl benzoate, and (2) a non-solvent liquid oxygen-containing diluent having a boiling point above 50° C. and selected from the class consisting of saturated aliphatic ethers, saturated aliphatic monohydric alcohols, saturated aliphatic ketones, saturated aliphatic esters, mixtures of monohydric saturated aliphatic alcohols and dihydric saturated aliphatic alcohols, and mixtures of the foregoing oxygen-containing compounds.

2,656,331

SUSPENSIONS OF POLYMERIC CHLOROTRIFLUOROETHYLENE

Murray M. Sprung, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Original application November 25, 1949, Serial No. 129,532. Divided and this application January 16, 1953, Serial No. 331,728
14 Claims. (Cl. 260—32.8)

1. A liquid suspension comprising a dispersed phase consisting essentially of finely divided, solid, high molecular weight polychlorotrifluoroethylene and a dispersing medium for the solid polychlorotrifluoroethylene comprising (1) an organic liquid which is a solvent for the aforesaid solid polymer at elevated temperatures but whose solvent characteristic is effective at a temperature below the boiling point of the liquid, the aforesaid liquid being selected from the class consisting of nuclearly fluorinated aromatic hydrocarbons containing two aromatic nuclei free of other substituents and halogenated lower alkyl-substituted aromatic hydrocarbons containing fluorine in the alkyl substituent, the aforesaid aromatic hydrocarbons both boiling above 110° C. and (2) a non-solvent liquid oxygen-containing diluent having a boiling point above 50° C. and selected from the class consisting of saturated aliphatic ethers, saturated aliphatic monohydric alcohols, saturated aliphatic ketones, saturated aliphatic esters, mixtures of monohydric saturated aliphatic alcohols and dihydric saturated aliphatic alcohols, and mixtures of the foregoing oxygen-containing compounds.

2,656,332

SUSPENSIONS OF POLYMERIC CHLOROTRIFLUOROETHYLENE

Murray M. Sprung, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Original application November 25, 1949, Serial No. 129,532. Divided and this application January 16, 1953, Serial No. 331,730
14 Claims. (Cl. 260—32.8)

1. A liquid suspension comprising a dispersed phase consisting essentially of finely divided, solid, high molecular weight polychlorotrifluoroethylene and a dispersing medium for the solid polychlorotrifluoroethylene comprising (1) an organic liquid which is a solvent for the aforesaid solid polymer at elevated temperatures but whose solvent characteristics are effective at temperatures below the boiling points of the liquid, the aforementioned liquid being selected from the class consisting of pseudocumene, mesitylene, t-butylbenzene, beta-methylnaphthalene, para-t-butyltoluene, alpha, beta-dimethylnaphthalene, amylbiphenyl, alpha-methyl para-methylstyrene, para-cymene, distyrene, diamylbiphenyl, and para-di-t-butylbenzene, and (2) a non-solvent liquid oxygen-containing diluent having a boiling point above 50° C. and selected from the class consisting of saturated aliphatic ethers, saturated aliphatic monohydric alcohols, saturated aliphatic ketones, saturated aliphatic esters, mixtures of monohydric saturated aliphatic alcohols and dihydric saturated aliphatic alcohols, and mixtures of the foregoing oxygen-containing compounds.

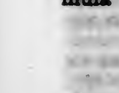
2,656,333

PLASTICIZED VINYL HALIDE COMPOSITION AND METHOD OF MAKING SAME

Gerson S. Schaffel and Gilbert H. Swart, Akron, Ohio, assignors to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio

No Drawing. Application May 17, 1950, Serial No. 162,610
26 Claims. (Cl. 260—45.5)

1. A thermoplastic composition comprising an intimate mixture of (1) a solid polymer of a mono-olefinic material having the general formula



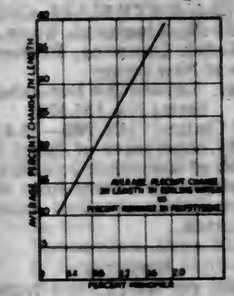
where Y is a halogen having an atomic weight less than 80 and where X is a member of the group consisting of hydrogen and a halogen having an atomic weight less than 80 and (2) a copolymer of a polymerizable conjugated diolefinic compound of less than seven carbon atoms in a straight chain with a carbonyl containing mono-olefinic material copolymerizable therewith and said mono-olefinic material being further characterized by having a carbonyl group, the carbon of which has only 2 of its 4 valence bonds connected directly to oxygen, a third valence connected directly to carbon and the remaining valence bond directly connected to one of the elements found in hydrocarbons.

2,656,334

CATALYTIC POLYMERIZATION PROCESS

Gaetano F. D'Alelio, Pittsburgh, Pa., assignor to Koppers Company, Inc., a corporation of Delaware

Application September 28, 1948, Serial No. 51,633
11 Claims. (Cl. 260—47)



1. The process of polymerizing a polymerizable mass comprising a vinyl aryl compound intimately mixed with a catalyst-combination consisting of 2,2-di-(tertiary-butylperoxy)-butane and a benzoyl peroxide of the class consisting of benzoyl peroxide and its chloro, bromo, fluoro, alkoxy, alkyl, benzo and carboperoxy nuclear-substituted derivatives by heating the polymerizable mass at 25°–95° C. until at least about 60 percent conversion to polymer has been effected, and subsequently at 100°–150° C. until substantially complete polymerization has been effected.

2,656,335

RESIN AND PROCESS FOR ITS MANUFACTURE

Herman S. Bloch, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application June 14, 1951, Serial No. 231,667
13 Claims. (Cl. 260—59)

1. A process for producing a synthetic resin which comprises reacting a carbonyl compound selected from the group consisting of aldehydes and ketones with the condensation product of from about 5 to about 25 mols of a phenol having at least two nuclear hydrogen atoms, from about 25 to about 45 mols of an aromatic hydrocarbon having at least two nuclear hydrogen atoms and an alkyl group of not more than two carbon atoms, and from about 50 to about 75 mols of a conjugated aliphatic diene hydrocarbon.

2,656,236

METHOD OF PREPARING DYE-RECEPTIVE ACRYLONITRILE POLYMERS

George E. Ham, Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation, a corporation of Delaware

No Drawing. Application July 23, 1949, Serial No. 106,490
14 Claims. (Cl. 260—85.5)

1. A method for preparing a dye-receptive fiber which comprises reacting a fiber of a copolymer of from 75 to 98 per cent of acrylonitrile and from two to 25 per cent of a vinyl ester of a monocarboxylic acid having up to eight carbon atoms and a halogen atom substituted on the alpha carbon atom with an amino compound of the group consisting of primary alkylamines, secondary alkyl amines, ethanol amines, pyridine, morpholine, polymethylene polyamines, and the cyclohexyl amines, wherein the alkyl groups, the ethanol groups, the polymethylene groups, and the cyclohexyl groups contain no other substituents.

2,656,237

COPOLYMERS OF ACRYLONITRILE AND ALLYL AND 2-METHALLYL CHLORIDES

John R. Caldwell, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application December 28, 1949, Serial No. 135,531
12 Claims. (Cl. 260—85.5)

11. A binary copolymer of from 65 to 95 per cent by weight of acrylonitrile and from 35 to 5 per cent by weight of a compound selected from the group consisting of allyl chloride and 2-methallyl chloride.

2,656,238

COPOLYMERS OF BUTENE-1 DERIVATIVES

Marion R. Lytton, West Chester, Pa., assignor, by mesne assignments, to The Chemstrand Corporation, Decatur, Ala., a corporation of Delaware

No Drawing. Application March 13, 1950, Serial No. 149,439
21 Claims. (Cl. 260—85.5)

1. A copolymer containing, in the polymer molecule, from 1 to 20 percent of 3-hydroxy-4-dimethylamino-butene-1, and from 80 to 99 percent of acrylonitrile.

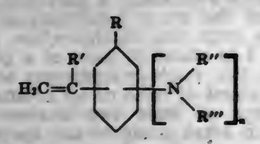
2,656,239

POLYMERIZABLE COMPOSITIONS COMPRISING ACRYLONITRILE AND A VINYL OR ISOPROPENYL AMINO AROMATIC COMPOUND AND POLYMERIZATION PRODUCTS THEREOF

John J. Padbury, Springdale, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application July 17, 1951, Serial No. 237,294
9 Claims. (Cl. 260—85.5)

1. A polymerizable composition comprising (1) acrylonitrile and (2) a compound of the class of compounds represented by the general formula:



where R and R′ each represents a member of the class consisting of hydrogen and the methyl radical, R″ and R‴ each represents a member of the class consisting of hydrogen and lower alkyl radicals containing from 1 to 5 carbon atoms, inclusive, and n represents a number selected from the class consisting of 1 and 2, the compounds of (2) constituting from about 1% to about 20% by weight of the total amount of (1) and (2).

2,656,240

AROMATIC-ALKENE COPOLYMERS OF LESS THAN 5 PER CENT AROMATIC CONTENT

William J. Sparks, Westfield, and David W. Young, Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application July 27, 1950, Serial No. 176,256
10 Claims. (Cl. 260—88.1)

2. A product consisting of essentially a rubbery substantially saturated two-component copolymer of more than 95% of isobutylene and at least about 0.5% but less than 5% of styrene, said copolymer having an average molecular weight of at least 30,000, and being soluble in highly paraffinic lubricating oils at temperatures as low as 10° C. and being soluble in benzene at 20° C.

2,656,241

CATALYTIC POLYMERIZATION PROCESS

Gaetano F. D'Alelio, Pittsburgh, Pa., assignor to Koppers Company, Inc., a corporation of Delaware

No Drawing. Application September 23, 1948, Serial No. 51,635
9 Claims. (Cl. 260—88.7)

1. The process of polymerizing a polymerizable mass containing a compound of the class consisting of acrylonitrile and methacrylonitrile as the only polymerizable constituent thereof, intimately mixed with a catalyst-combination consisting of tertiary butyl perbenzoate and a benzoyl peroxide of the class consisting of benzoyl peroxide and its chloro, bromo, fluoro, alkoxy, alkyl, benzo and carboperoxy nuclear-substituted derivatives, by heating the polymerizable mass at a temperature between about 25° C. and about 80° C. until at least about 60 per cent conversion to polymer has been effected, and subsequently at a temperature between about 85° C. and about 125° C. until substantially complete polymerization has been effected.

2,656,242

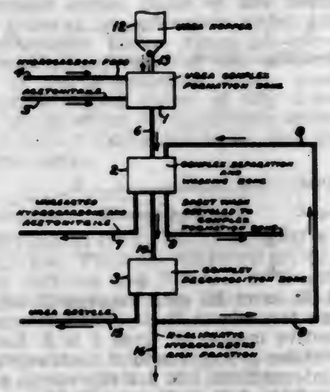
HYDROCARBON SEGREGATION UTILIZING UREA AND A NITRILE

Charles N. Kimberlin, Jr., and William F. Arey, Jr., Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application July 8, 1949, Serial No. 103,562
4 Claims. (Cl. 260—96.5)

1. A urea extractive crystallization process in which urea is contacted with a liquid containing normal aliphatic hydrocarbons and a nitrile of 2 to 11 carbon atoms in a first step of the process whereby urea hydrocarbon complexes are formed and subsequently said complex is decomposed to yield liquid rich in normal aliphatic hydrocarbons, including the step of washing the said

ures hydrocarbon complexes prior to decomposition with about 10 to 50% of liquid rich in normal aliphatic hydrocarbons obtained from prior complex decomposition.



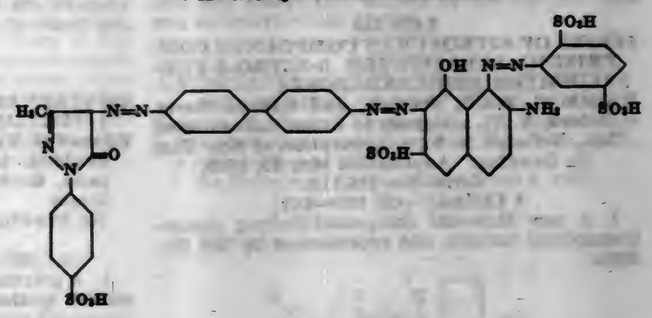
2,656,243

HYDROPEROXIDES OF DEHYDROABIETIC ACID DERIVATIVES

Paul F. Ritchie, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 8, 1951, Serial No. 225,281
20 Claims. (Cl. 260—99)

1. An ester of an acid selected from the group consisting of 9-hydroperoxydehydroabietic acid, 14-hydroperoxydehydroabietic acid, 9,14-dihydroperoxydehydroabietic acid, 9-hydroxy-14-hydroperoxydehydroabietic acid, 9-oxo-14-hydroperoxydehydroabietic acid.



2,656,244

PREPARATION OF ESTERS OF OXODEHYDROABIETIC ACID

Paul F. Ritchie, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 8, 1951, Serial No. 225,282
15 Claims. (Cl. 260—99)

1. The process of preparing an ester of 9-oxodehydroabietic acid which comprises oxidizing an ester of dehydroabietic acid in liquid phase with a gas containing free oxygen in the presence of a free radical oxidation initiator at a temperature of from about 60° C. to about 130° C. and contacting the oxidate containing the ester of 9-hydroperoxydehydroabietic acid which is so produced with a metallic reducing agent to form the said ketone.

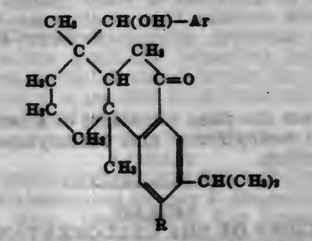
2,656,245

α-ARYL-9-OXODEHYDROABIETINOLS

Robert P. Jacobsen, Shrewsbury, Mass., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application August 31, 1951, Serial No. 244,712
5 Claims. (Cl. 260—99)

1. The 1,4α - dimethyl - 1-arylmethanol-7-isopropyl - 1, 2, 3, 4, 9, 10, 1α, 4α - octahydrophenanthrenes of the structural formula



wherein R is a member of the class consisting of hydrogen and hydroxyl radicals and Ar is a monocyclic aromatic hydrocarbon radical containing six to eight carbon atoms.

2,656,246

DIS- AND POLYAZO DYESTUFFS AND A PROCESS OF MAKING SAME

Oscar Knecht and Hans Ischer, Basel, Switzerland, assignors to Sandoz Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application June 26, 1950, Serial No. 170,460. In Switzerland January 17, 1947
14 Claims. (Cl. 260—159)

5. An azo dyestuff of the formula

2,656,247

STREPTOMYCIN BROTH CLARIFICATION WITH SEQUESTERING AGENTS

John J. Goett, New York, and Stanley W. Kaminger, Brooklyn, N. Y., assignors to Chas. Pfizer & Co., Inc., a corporation of Delaware

No Drawing. Application August 25, 1949, Serial No. 112,407
6 Claims. (Cl. 260—210)

1. In an improved method for the recovery of a nitrogen basic antibiotic from streptomyces fermentation broth containing multivalent metallic ions, the step which comprises adding a sequestering agent which forms complexes with calcium to the broth prior to the isolation of the nitrogen basic antibiotic.

2,656,248

STEROIDS HAVING A 17-POSITIONED SEMICYCLIC DOUBLE BOND

Karl Miescher, Riehen, Albert Wettstein and Julius Schmidlin, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.

No Drawing. Application July 25, 1950, Serial No. 175,881. In Switzerland July 27, 1949

8 Claims. (Cl. 260—239.55)

1. The Δ^{17}-pregnenes with a substituent selected from the class consisting of a benzylidene, naphthyl-methylidene and furfurylidene group in 21-position.

2,656,249

14,15-OXIDES OF THE CYCLOPENTANOPOLYHYDROPHENANTHRENE AND POLYHYDROCHRYSENE SERIES

Leopold Ruzicka and Placidus Plattner, Zurich, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.

No Drawing. Original application November 26, 1946, Serial No. 712,258, now Patent No. 2,555,704, dated June 5, 1951. Divided and this application December 4, 1950, Serial No. 199,141. In Switzerland November 30, 1945

7 Claims. (Cl. 260—239.55)

1. Δ^{16} - 14,15 - oxido - cyclopentanopolyhydrophenanthrenes containing in 17-position a member selected from the group consisting of free carboxyl, carboxyl esterified with a lower alkanol, free hydroxyacetyl, hydroxyacetyl esterified with a lower alkanoic acid, acetyl and cyano.

2,656,250

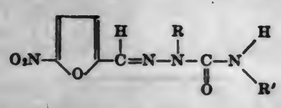
SERIES OF NITROFURAN COMPOUNDS COMPRISING SUBSTITUTED 5-NITRO-2-FURALDEHYDE SEMICARBAZONES

William C. Ward, Norwich, and Gabriel Gever, Oxford, N. Y., assignors to Eaton Laboratories, Inc., Norwich, N. Y., a corporation of New York

No Drawing. Application May 29, 1950, Serial No. 165,112

4 Claims. (Cl. 260—240)

1. A new chemical compound having chemotherapeutic activity and represented by the formula:



in which

R=hydrogen, lower alkyl, lower aralkyl, aryl and lower hydroxy alkyl

R'=lower aralkyl, aryl and lower hydroxy alkyl.

2,656,251

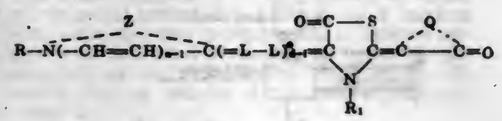
TRINUCLEAR DYES CONTAINING A 5-THIAZOLIDONE NUCLEUS

Per Aubert, Oslo, Norway, and Roy A. Jeffreys and Edward B. Knott, Harrow, England, assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

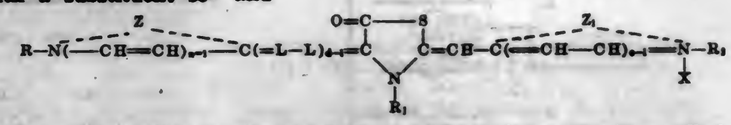
No Drawing. Application March 2, 1951, Serial No. 220,332

8 Claims. (Cl. 260—240.1)

1. A trinuclear dye selected from the group consisting of those represented by the following general formulas:



and



wherein R, R_1, and R_2 each represents an alkyl group of the formula C_mH_{2m+1} wherein m represents a positive integer of from 1 to 8, L represents a methine group, e and n each represents a positive integer from 1 to 2, d represents a positive integer from 1 to 3, X represents an anion, Q represents the non-metallic atoms necessary to complete a heterocyclic nucleus containing 5 atoms in the heterocyclic ring, 3 of said atoms being carbon atoms, 1 of said atoms being a nitrogen atom, and the other of said atoms being selected from the group consisting of an oxygen atom, a sulfur atom, and a nitrogen atom, and Z and Z_1 each represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from the group consisting of those of the thiazole series, those of the benzothiazole series, those of the naphthothiazole series, those of the oxazole series, those of the benzoxazole series, those of the napthothoxazole series, those of the selenazole series, those of the benzoselenazole series, those of the naphthoselenazole series, those of the thiazoline series, those of the 2-quinoline series, those of the 4-quinoline series, those of the 1-isoquinoline series, those of the 3-isoquinoline series, those of the pyridine series, and those of the 3,3-dimethylindolenine series.

2,656,252

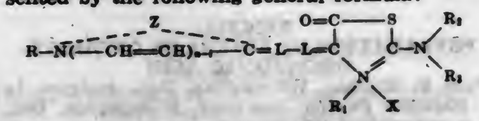
QUATERNARY SALT DYES DERIVED FROM 2-TERTIARYAMINO-5(4)-THIAZOLONES

Edward B. Knott and Leslie A. Williams, Harrow, England, assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application October 30, 1951, Serial No. 253,956

10 Claims. (Cl. 260—240.1)

1. A polymethine dye selected from those represented by the following general formula:



wherein R and R_1 each represents an alkyl group, R_2 and R_3 each represents a member selected from the group consisting of an alkyl group, an aryl group, and R_2 and R_3 together represent the non-metallic atoms necessary to complete a heterocyclic nucleus containing 6 atoms in the heterocyclic ring selected from the group consisting of those of the piperidine series and those of the morpholine series, n represents a positive integer of from 1 to 2, L represents a methine group, X represents an anion, and Z represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from the group consisting of those of the thiazole series, those of the benzothiazole series, those of the naphthothiazole series, those of the oxazole series, those of the benzoxazole series, those of the naphthoxazole series, those of the selenazole series, those of the benzoselenazole series, those of the naphthoselenazole series, those of the thiazoline series, those of the 2-quinoline series, those of the 4-quinoline series, those of the 1-isoquinoline series, those of the 3-isoquinoline series, those of the 3,3-dialkyl indolenine series, and those of the pyridine series.

2,656,253

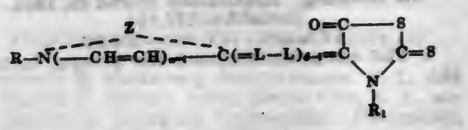
SENSITIZING DYES CONTAINING A 2-THIO-2,5(3,4)-THIAZOLEDIONE NUCLEUS

Roy A. Jeffreys and Edward B. Knott, Harrow, England, assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application December 29, 1950, Serial No. 203,526

12 Claims. (Cl. 260—240.4)

1. A merocyanine dye selected from those represented by the following general formula:



wherein R and R_1 each represents an alkyl group containing from 1 to 8 carbon atoms, L represents a methine group, n represents a positive integer from 1 to 2, d represents a positive integer from 1 to 3, and Z represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from the group consisting of those of the thiazole series, those of the benzothiazole series, those of the naphthothiazole series, those of the thionaphtheno-7',6',4,5-thiazole series, those of the oxazole series, those of the benzoxazole series, those of the naphthoxazole series, those of the selenazole series, those of the benzoselenazole series, those of the naphthoselenazole series, those of the thiazoline series, those of the 2-quinoline series, those of the 4-quinoline series, those of the 1-isoquinoline series, those of the 3-isoquinoline series, those of the 3,3-dialkylindolenine series, and those of the pyridine series.

2,656,254

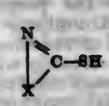
PREPARATION OF HETEROCYCLIC SULFONIC ACIDS

Roger A. Mathes and Floyd D. Stewart, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application October 14, 1949, Serial No. 121,456

8 Claims. (Cl. 260—243)

1. The method which comprises reacting in an inert liquid solvent at a temperature below room temperature at least equimolecular portions of nitrogen tetroxide with a heterocyclic mercaptan containing the characteristic structure



wherein X is a bivalent organic group free from oxidizable groups, and recovering the resulting heterocyclic sulfonic acid.

2,656,255

PURIFICATION OF CYCLONITE

Werner E. Bachmann, Ann Arbor, Mich., assignor to the United States of America as represented by the Secretary of War

No Drawing. Application July 16, 1942, Serial No. 451,050

10 Claims. (Cl. 260—248)

1. A method of purifying crude cyclonite which comprises forming a solution of said crude cyclonite in an essentially non-acidic inert solvent therefor, adding water in the form of steam in controlled amounts to said solution whereby to produce a water-containing cyclonite solution, and thereafter gradually removing said cyclonite-solvent by distillation, whereby the cyclonite is separated in a purified form from said solvent in the presence of water.

2,656,256

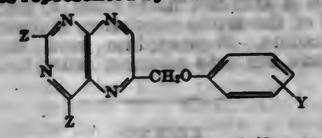
6-PHENOXYMETHYLPTERIDINES

David I. Weisblat and Barney J. Magerlein, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application February 24, 1951, Serial No. 212,668

11 Claims. (Cl. 260—251.5)

1. A member of the group of 6-phenoxymethylpteridines represented by the formula:



wherein each Z is a member of the group consisting of hydrogen, hydroxyl, thiol, alkylthiol, amino, halogen and alkyl and Y is a member of the group consisting of hydrogen, amino, nitro, halogen, alkyl, alkoxyl sulfonic acid, carboxylic acid and esters and amides of the sulfonic acid and carboxylic acid groups.

2,656,257

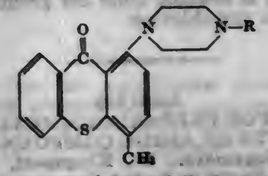
1-PIPERAZYL-4-METHYLTHIOXANTHONES AND METHOD OF PREPARING SAME

Samuel Kushner, Nanuet, N. Y., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 8, 1952, Serial No. 303,400

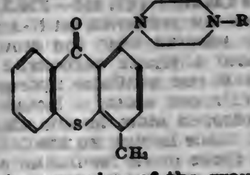
4 Claims. (Cl. 260—268)

1. Compounds having the general formula:



in which R is a member of the group consisting of hydrogen and methyl radicals.

3. A method of preparing compounds having the general formula:

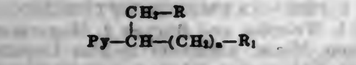


in which R is a member of the group consisting

of hydrogen and methyl radicals which comprises reacting 1-chloro-4-methylthioxanthone with a member of the group consisting of carboxalkylated piperazines and N-methylpiperazine in a hydrocarbon solvent and recovering said product therefrom.

2,656,258
ANTIHISTAMINIC SUBSTANCES
Nathan Sperber, Bloomfield, N. J., Domenick Papa, Brooklyn, N. Y., and Erwin Schwenk, Shrewsbury, Mass., assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey
No Drawing. Application August 7, 1950, Serial No. 178,166
12 Claims. (Cl. 260—294.8)

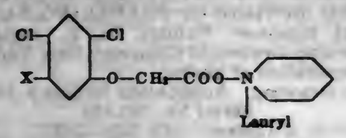
1. Compounds of the general formula



wherein Py is a member of the group consisting of pyridine and lower alkyl pyridine rings, R is a member of the group consisting of phenyl, thienyl, furyl, pyridyl, thiazyl, and pyrazyl groups and their lower alkyl, lower alkoxy, chlorine and bromine substitution products, n is not less than 2 and not more than 4, and R_1 is a member of the group consisting of dialkylamino, N-morpholino, N-piperidino and imidazolino groups and the acid addition salts thereof.

2,656,259
LAURYL PYRIDINIUM SALTS OF CHLORO-PHENOXY-ACETIC ACIDS
Lester A. Brooks, Norwalk, Conn., assignor to R. T. Vanderbilt Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application June 26, 1951, Serial No. 233,689
3 Claims. (Cl. 260—295)

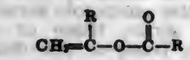
1. The compounds of the generic formula



in which X is selected from the group consisting of hydrogen and chlorine.

2,656,260
PROCESS FOR PREPARING N-ACYL DERIVATIVES OF AMIDE COMPOUNDS
Hugh J. Hagemeyer, Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application May 23, 1951, Serial No. 227,927
9 Claims. (Cl. 260—326.3)

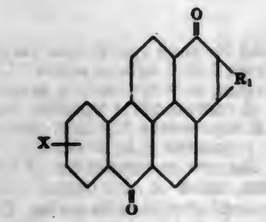
1. A process for preparing an N-acyl derivative of an amide selected from the group consisting of a saturated aliphatic carboxylic monoamide having at least one available hydrogen atom on the amide nitrogen atom, a lactam having an available hydrogen atom on the amide nitrogen and a cyclic imide having an available hydrogen atom and a cyclic imide having an available hydrogen atom on the amide nitrogen atom, which comprises condensing the said amide with an unsaturated ester of the following general formula:



wherein each R represents a member selected from the group consisting of an alkyl group, an aralkyl group and an aryl group, at a temperature of from 50 to 300° C., in the proportions of at least one mole of the unsaturated ester to each mole of the said amide, in the presence of an acid esterification catalyst.

2,656,261
THIENYL VAT DYE COMPOUNDS AND VAT DYE INTERMEDIATES AND PROCESSES FOR THEIR PREPARATION
James M. Straley and Raymond C. Harris, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application March 29, 1951, Serial No. 218,264
8 Claims. (Cl. 260—329.2)

1. The compounds having the general formula:



wherein R_1 stands for a thienyl radical selected from the group consisting of an unsubstituted thienyl nucleus joined to the 7,8-benzo-pyrene-1,6-dione nucleus through the carbon atoms in its 2- and 3-positions, an unsubstituted thienyl nucleus joined to the 7,8-benzo-pyrene-1,6-dione nucleus through the carbon atoms in its 3- and 4-positions and a 2,5-dichlorothienyl nucleus joined to the 7,8-benzo-pyrene-1,6-dione nucleus through the carbon atoms in its 3- and 4-positions and X represents a member selected from the group consisting of a chlorine atom, a bromine atom, a fluorine atom and a methyl group.

2,656,262
PREPARATION OF 2-HALOGENATED TETRAHYDROTHIOPHENE 1,1-DIOXIDES
Herman Eldridge Faith, Indianapolis, Ind., assignor to Allied Laboratories, Inc., Kansas City, Mo., a corporation of Delaware
No Drawing. Application July 5, 1951, Serial No. 235,290
4 Claims. (Cl. 260—332.1)

1. A process for the preparation of 2-halogenated tetrahydrothiophene 1,1-dioxides which comprises the steps of reacting anhydrous tetrahydrothiophene 1,1-dioxide with a substance selected from the group consisting of ethyl magnesium iodide, ethyl magnesium bromide and ethyl magnesium chloride in an anhydrous liquid medium and subsequently adding a halogen of the group consisting of iodine, bromine, and chlorine.

2,656,263
PROCESS FOR PREPARING CYCLOPENTANO-PERHYDROPHENANTHRENE DERIVATIVES
Francisco Nedmann, John Pataki, and Stephen Kaufmann, Mexico City, Mexico, assignors to Syntex S. A., Mexico City, Mexico, a corporation of Mexico
No Drawing. Application October 30, 1950, Serial No. 193,021
3 Claims. (Cl. 260—397.1)

1. A method for preparing 3α-hydroxy-11-keto-cholanic acid which comprises oxidizing a compound selected from the group consisting of 3-mono-acyl derivatives of 3α-12β-dihydroxy-11-keto-cholanic acid and esters thereof with an oxidizing agent selected from the class consisting of N-bromo acid-amides and N-bromo acid-imides to the corresponding derivatives of 3α-hydroxy-11,12-diketo-cholanic acid and thereafter dissolving said last-mentioned cholanic acid derivatives in a solvent selected from the class consisting of diethylene glycol and triethylene glycol and reducing by heating with hydrazine-hydrate in the presence of a strong alkali.

2,656,264
PROCESS FOR THE MANUFACTURE OF 17-KETO STEROIDS
Emanuel B. Hershberg, West Orange, N. J., and Eugene P. Oliveto, Long Island City, N. Y., assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey
No Drawing. Application July 16, 1951, Serial No. 237,079
23 Claims. (Cl. 260—397.3)

1. Process for the manufacture of 17-keto steroids, which comprises reacting a Δ^{16}-20-oximo steroid with a member of the group consisting of sulfonic acids and sulfonic acid halides, and effecting a rearrangement of the resulting sulfonic acid ester of the oxime to a 17-keto steroid by heating the same in the presence of a basically acting organic compound.

2,656,265
OXO-STEROIDS AND PROCESS OF MAKING SAME
Karl Miescher, Riehen, and Albert Wettstein and Julius Schmidlin, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.
No Drawing. Application July 25, 1950, Serial No. 175,382. In Switzerland July 27, 1949
11 Claims. (Cl. 260—397.4)

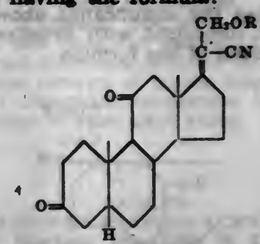
1. Process for the manufacture of oxo-steroids, which comprises splitting off water from secondary 20-ols of the pregnane series which contain in 21-position an aryl substituted methylidene group, with the formation of a double bond, then treating the compounds obtained with an oxidizing agent and isolating the so formed 17-ketones and Δ^{17}-pregnene-21-als.

2,656,266
WATER-SOLUBLE ESTERS OF CORTISONE AND RELATED COMPOUNDS
Huang Minlon, Metuchen, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application July 27, 1950, Serial No. 176,247
6 Claims. (Cl. 260—397.4)

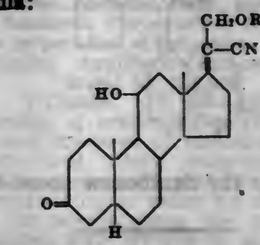
1. A compound selected from the group which consists of Δ^4-3,11,20-triketo-17-hydroxy-21-(β-carboxy - propionoxy) - pregnene, Δ^4 - 3,11,20-triketo-17-hydroxy-21-(ortho-carboxy-benzoxy)-pregnene, Δ^4 - 3,11,20 - triketo - 17 - hydroxy - 21-(β-carboxy-acryloxy)-pregnene, and alkali metal and alkaline earth metal salts thereof.

2,656,267
STEROIDS AND PROCESS OF PREPARING THE SAME
Robert P. Graber, Westfield, and Norman L. Wendler, Linden, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application December 2, 1950, Serial No. 198,916
8 Claims. (Cl. 260—397.4)

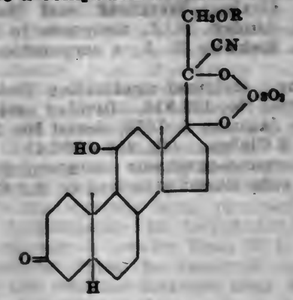
1. The process which comprises reacting a compound having the formula:



wherein R is a radical selected from the class which consists of hydrogen and acyl radicals, with a ketone reagent thereby forming the corresponding Δ^{17}-11-keto-20-cyano-pregnene compound wherein the keto grouping in the 3-position is replaced by a substituent reconvertible to ketone by reaction with a hydrolyzing agent, reacting this compound with an alkali metal borohydride thereby converting the keto radical in the 11-position to an 11(β)-hydroxy grouping without substantially affecting the substituents attached to the 3 and 20-carbon atoms, thereby producing the corresponding Δ^{17}-11(β)-hydroxy - 20 - cyano - pregnene compound, reacting the latter compound with a hydrolyzing agent to produce a compound of the formula:

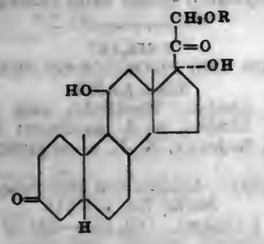


wherein R has the significance above-defined, reacting this compound with osmium tetroxide to produce a compound of the formula:

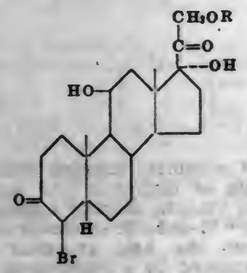


where R has the significance above-defined, re-

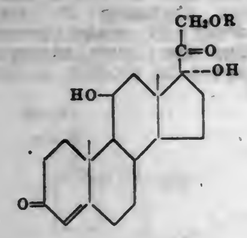
acting this compound with a hydrolyzing agent to form a compound having the formula:



wherein R has the significance above-defined, reacting this compound with bromine to produce a compound of the formula:



wherein R has the significance above-defined, and reacting the latter compound with a dehydrohalogenating agent to form a compound of the formula:



wherein R has the significance above-defined.

2,656,368

Δ^{17}-20-CYANO-11-HYDROXYPREGNENES

Robert P. Graber, Westfield, and Norman L. Wendler, Linden, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Original application December 2, 1950, Serial No. 198,916. Divided and this application January 8, 1952, Serial No. 265,532

9 Claims. (Cl. 260—397.4)

1. Δ^{17}-20-cyano-pregnene compounds having a hydroxy substituent attached to the C–11 carbon atom.

2,656,369

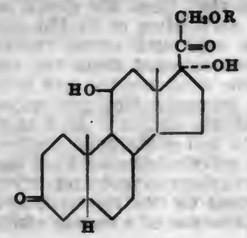
3,20-DIKETO-11,17-DIHYDROXY-21-ACYLOXY-PREGNANE COMPOUNDS

Robert P. Graber, Westfield, and Norman L. Wendler, Linden, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Original application December 2, 1950, Serial No. 198,916. Divided and this application February 1, 1952, Serial No. 269,667

2 Claims. (Cl. 260—397.4)

1. Compounds of the formula:



wherein R is a radical selected from the class which consists of hydrogen and lower alkanoyl radicals.

2,656,370

11α-HYDROXY-4-ANDROSTENE-3,17-DIONE

Herbert C. Murray, Hickory Corners, and Durey H. Peterson, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application March 19, 1953, Serial No. 277,523

1 Claim. (Cl. 260—397.4)

11α-hydroxy-4-androstene-3,17-dione.

2,656,371

SELECTIVE REDUCTION OF FATTY ACIDS

William S. Baldwin, St. Paul, and Don E. Floyd, Robbinsdale, Minn., assignors to General Mills, Inc., a corporation of Delaware

No Drawing. Application April 28, 1952, Serial No. 284,823

8 Claims. (Cl. 260—409)

7. Process of producing a mono-olefinic compound from a poly-olefinic compound selected from the group consisting of fatty acids, esters, amides, nitriles and salts thereof, which comprises reacting said poly-olefinic compound with a cycloaliphatic hydrocarbon in the presence of a hydrogenation catalyst at a temperature within the approximate range of 20–325° C.

2,656,372

MIXTURES OF ORTHOPHOSPHATES

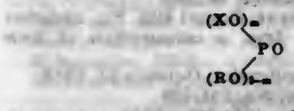
Robert Ernst and George D. Loeff, Los Angeles, Calif., assignors to Textilana, Inc., Los Angeles, Calif., a corporation of California

No Drawing. Application June 22, 1948, Serial No. 34,569

16 Claims. (Cl. 260—461)

1. As a new composition of matter a mixture of water dispersible salts of mono acid and diacid esters of ortho-phosphoric acid substantially free of the ester salts of pyrophosphoric, polyphosphoric and meta phosphoric acid esters, said

mixture having a ratio of mono and diacid esters to comply with the following general formula



where R is a radical chosen from the group consisting of normal octyl and normal decyl radicals, and X is chosen from the group consisting of the potassium, ammonium water soluble, amine, and water soluble alkanol amine radicals, and where the C-O linkage of the RO group is on the terminal carbon of the alkyl radical, and wherein *m* is within the range of approximately 1.3 to approximately 1.7.

2,656,373

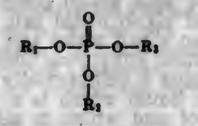
PROCESS FOR PRODUCING MIXED DIARYL ESTERS OF ORTHO-PHOSPHORIC ACID

Harry R. Gamrath, St. Louis, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

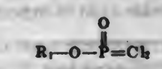
No Drawing. Application April 14, 1950, Serial No. 156,025

20 Claims. (Cl. 260—461)

1 In a process for the preparation of esters of ortho-phosphoric acid having the formula



wherein R_1 represents an aliphatic radical and R_2 and R_3 represent dissimilar aryl radicals, the steps comprising reacting in an aqueous medium a one molecular proportion of a phosphoryl dichloride having the formula



wherein R_1 represents an aliphatic radical, with a mixture containing approximately a one molecular proportion of each of two arylates containing dissimilar aryl groups, said arylates being selected from the group consisting of the alkali metal arylates and the alkaline earth metal arylates.

2,656,374

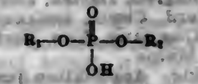
PROCESS FOR THE PREPARATION OF ALKYL PHENYL PHOSPHORIC ACIDS AND THE SALTS THEREOF

Harry R. Gamrath, St. Louis, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application May 1, 1950, Serial No. 159,374

11 Claims. (Cl. 260—461)

1. In a process for the conversion of alkyl phosphoryl dichlorides to salts of alkyl phenyl phosphoric acid, said acid having the formula



wherein R_1 represents an alkyl radical terminating with a CH_3 group and containing from 6 to 18 carbon atoms and R_2 represents a phenyl radical, the step comprising reacting a one molecular proportion of an alkyl phosphoryl dichloride with an aqueous solution containing approximately a one molecular proportion of an alkali metal salt of a phenol, while maintaining the reaction mixture alkaline to phenol-phthalein.

2,656,375

AMINO BICYCLOHEXYL-ALKYL ACID PHOSPHATE REACTION PRODUCT

Samuel Clyde Vaughn, Berkeley, Calif., assignor to Tide Water Associated Oil Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application September 6, 1951, Serial No. 245,429

5 Claims. (Cl. 260—461)

1. As a new chemical compound, suitable for use as a rust inhibiting additive for mineral oils, the addition product of amino bicyclohexyl and alkyl acid phosphate containing from 8 to 16 carbon atoms in each alkyl group.

2,656,376

METHOD OF STABILIZING ACRYLONITRILE

Joseph F. Martino, Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application September 23, 1950, Serial No. 186,506

5 Claims. (Cl. 260—465.9)

1. A color stable acrylonitrile containing a chloride of the group consisting of aluminum chloride, ammonium chloride, cadmium chloride, mercuric chloride and zinc chloride.

2,656,377

PROCESS FOR THE SEPARATION OF ISOPHTHALIC AND TEREPHTHALIC DIESTERS

Manuel A. Pino, Berkeley, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware

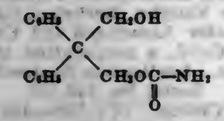
No Drawing. Application January 16, 1951, Serial No. 206,319

7 Claims. (Cl. 260—475)

1. A process of separating mixtures of lower alkyl alcohol di-esters of isophthalic acid and terephthalic acid, which comprises contacting said mixtures successively with two solvents having different solubility ratios for the isophthalate over the terephthalate, the mixtures being first contacted with benzene in an amount just sufficient to entirely dissolve the more highly soluble isophthalate, withdrawing the undissolved terephthalate in a nearly pure state, removing the benzene from the dissolved mixture of isophthalate and terephthalate, the residual mixture thus obtained being then contacted with a solvent selected from the group consisting of methyl alcohol, ethyl alcohol and low molecular weight fatty acid esters thereof in an amount just sufficient to entirely dissolve the terephthalate and the undissolved excess of isophthalate being withdrawn in a nearly pure state, the foregoing order of sequence in contacting the mixtures with the solvents being reversed when the ratio of isophthalate to terephthalate in the starting mixture is greater than 20 to 1, removing the solvent from the dissolved mixture and recycling the residual mixture thus obtained to repeat the foregoing steps.

2,656,278
2,2-DIPHENYL-1,3-PROPANEDIOL MONOCARBAMATE
Frank M. Berger, Princeton, and Bernard J. Ludwig, North Brunswick, N. J., assignors to Carter Products, Inc., New York, N. Y., a corporation of Maryland
No Drawing. Application January 4, 1952, Serial No. 265,056
1 Claim. (Cl. 260—482)

The compound 2,2-diphenyl-1,3-propanediol monocarbamate which is represented by the formula



2,656,279
CATALYTIC DECOMPOSITIONS OF FORMIC ACID IN ACETIC ACID MIXTURES WITH OTHER ORGANIC COMPOUNDS
James S. MacKenzie and Oliver H. Axtell, Jr., Corpus Christi, Tex., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware
No Drawing. Application November 27, 1951, Serial No. 258,518
1 Claim. (Cl. 260—499)

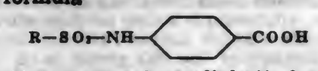
In a process for the removal of the formic acid present in an aqueous mixture of organic compounds, said mixture containing acetic acid, formic acid, acetone, acetaldehyde, methyl formate, ethyl acetate, methyl ethyl ketone and methanol, the major constituent of said aqueous mixture being acetic acid, the steps which comprise vaporizing said aqueous mixture and passing the vapors over activated alumina of 2 to 4 mesh particle size while maintaining the vapors at a temperature of 500 to 650° F. and in contact with said alumina for one second.

2,656,280
PRODUCTION OF FUEL OILS AND NAPHTHENIC ACID SOAPS
Cyril R. Turner, Lafayette, Calif., assignor, by mesne assignments, to California Research Corporation, San Francisco, Calif., a corporation of Delaware
Application November 29, 1949, Serial No. 129,938
3 Claims. (Cl. 260—514)

1. A process of producing diesel fuel oils and soaps of naphthenic acids from the naphthenic-acid containing petroleum hydrocarbon fractions boiling within the range of about 325 to about 725° F. which comprises washing the hydrocarbon fractions with an aqueous caustic solution whereby the naphthenic acids are converted to the corresponding soap, settling the washed mixture and separating the resultant hydrocarbons and aqueous phase containing derived naphthenic soaps; washing the separated hydrocarbons with an aqueous solution consisting essentially of water and 0.001 to about 0.1 weight per cent of an alkyl aryl sulfonate having an average molecular weight of about 350 in a volume ratio of said hydrocarbons to said aqueous solution of about 1:1 to about 20:1; and settling the washed mixture and separating an aqueous phase containing naphthenic soaps and resultant naphthenic-soap free diesel fuel oil.

2,656,281
SECONDARY ALKYLSULFONAMIDO BENZOIC ACIDS
James Maurice Sprague, Drexel Hill, Pa., assignor to Merck & Co., Inc., a corporation of New Jersey
No Drawing. Application October 21, 1950, Serial No. 191,499
6 Claims. (Cl. 260—518)

1. A new carboxy-sulfonanilide having the general formula



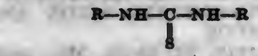
wherein R is a secondary-aliphatic hydrocarbon radical containing from 3 to 8 carbon atoms, and selected from the group consisting of an open-chain secondary-alkyl radical and a cycloalkyl radical.

2,656,282
PREPARATION OF 2,4-DICHLOROPHENOXY-ACETIC ACID
Marshall Kulka, Guelph, Ontario, and John C. R. Warren, Elmira, Ontario, Canada, assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application January 30, 1952, Serial No. 269,006
3 Claims. (Cl. 260—521)

1. The process of preparing 2,4-dichlorophenoxyacetic acid which comprises reacting a mixture of an alkali metal salt of 2,4-dichlorophenol and an alkali metal salt of monochloroacetic acid under anhydrous conditions in a medium comprising a substantially water-insoluble inert organic liquid which is a solvent for 2,4-dichlorophenol and which is selected from the group consisting of hydrocarbons and halogenated hydrocarbons, the said reaction mixture being maintained in a fluid state by the presence therein of free 2,4-dichlorophenol, whereby the said alkali metal salts are solubilized and react rapidly to form the desired 2,4-dichlorophenoxyacetic acid compound.

2,656,283
PREPARATION OF CARBODIIMIDES
Erich Schmidt, Bad Reichenhall, and Robert Schnegg, Dormagen, Germany, assignors to Farbenfabriken Bayer, Leverkusen, Germany
Application January 3, 1951, Serial No. 204,185
In Germany January 4, 1950
7 Claims. (Cl. 260—551)

1. A process of producing carbodiimides, which process comprises contacting an excess of an aqueous solution of an alkali metal hypohalite with a thiourea having the general formula



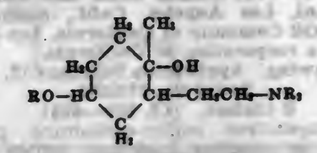
wherein R stands for a radical selected from the group consisting of lower branched chain alkyl and cycloalkyl radicals.

2,656,284
FLUORINE CONTAINING UREA DERIVATIVES
Vincent V. Lindgren, Darien, and Jack T. Cassaday, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application June 14, 1950, Serial No. 168,148
2 Claims. (Cl. 260—553)

1. 1,3-bis(2,2,2-trifluorethyl) urea.

2,656,285
CYCLOHEXANOLS
John A. Hogg, Jerome Kerman, William Bradley Reid, Jr., and Alan H. Nathan, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan
No Drawing. Application February 24, 1951, Serial No. 212,673
9 Claims. (Cl. 260—563)

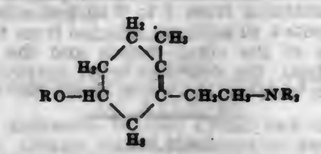
1. A 1-methyl 2-(β-aminoethyl)-4-hydrocarbonoxycyclohexanol having the formula:



wherein R is a hydrocarbon radical containing one to seven carbon atoms, inclusive.

2,656,286
AMINOETHYLHYDROCARBONOXYCYCLOHEXENES
John A. Hogg, Jerome Kerman, William Bradley Reid, Jr., and Alan H. Nathan, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan
No Drawing. Application February 24, 1951, Serial No. 212,674
9 Claims. (Cl. 260—563)

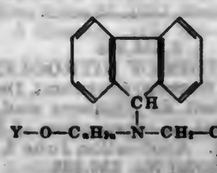
1. A 1-methyl-2-(β-aminoethyl)-4-hydrocarbonoxycyclohexene having the formula:



wherein each R is a hydrocarbon radical containing from one to seven carbon atoms, inclusive.

2,656,287
FLUORENE DERIVATIVES
James F. Kerwin and Glenn E. Ullyot, Philadelphia, Pa., assignors to Smith, Kline & French Laboratories, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application February 23, 1950, Serial No. 145,888
6 Claims. (Cl. 260—570.7)

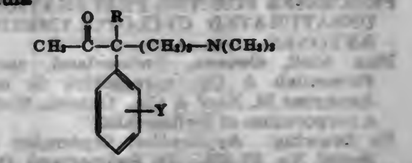
1. A compound of the class consisting of a free base and its acid addition salts, said free base having the structure



in which Y is a member of the group consisting of alkyl groups of not in excess of 4 carbon atoms, phenyl, tolyl and anisyl; n is an integer from the group consisting of 2 and 3; R is a member of the group consisting of hydrogen and methyl; X is a member of the group consisting of chlorine and bromine.

2,656,288
METHOD OF PREPARING 3,3-DISUBSTITUTED-6-DIMETHYLAMINO-2-HEXANONES
Everett M. Schultz, Glenolden, Pa., assignor to Merck & Co., Inc., a corporation of New Jersey
No Drawing. Application August 16, 1950, Serial No. 179,896
3 Claims. (Cl. 260—570.8)

1. The method of preparing 3,3-disubstituted-6-dimethylamino-2-hexanones having the general formula



in which R is selected from the group consisting of an alkyl radical containing from 1 to 12 carbon atoms and a phenalkyl radical, and Y is selected from the group consisting of hydrogen, lower alkyl, halogen and alkoxy comprising hydrogenating an appropriate γ,γ-disubstituted-δ-oxocapronitrile in the presence of Raney nickel catalyst at about 90–100° C. and at a pressure of about 100 atmospheres, heating the tetrahydropyridine so formed with formic acid and formaldehyde until evolution of gas ceases, and recovering the 3,3-disubstituted-6-dimethylamino-2-hexanone so formed.

2,656,289
PRODUCTION OF DIPHENYLAMINE
George T. Johannesen, Mount Lebanon, Pa., assignor to Koppers Company, Inc., a corporation of Delaware
Application November 9, 1948, Serial No. 59,963
13 Claims. (Cl. 260—576)

1. In a cyclic process for the manufacture of diphenylamine by the deammoniation of aniline the steps of bringing together aniline, recycled aniline hydrochloride and aluminum chloride and effecting deammoniation of said aniline by the action of the aniline hydrochloride-aluminum chloride catalyst which is formed when said recycled aniline hydrochloride and said aluminum chloride are brought together, subjecting the reaction mixture containing aniline, aniline hydrochloride, aluminum chloride and diphenylamine to distillation at a pressure such that the maximum overhead temperature is less than about 270° C. and recovering thereby an aniline fraction and an aniline hydrochloride-diphenylamine azeotrope fraction, the amount of aniline hydrochloride present in said reaction mixture during distillation being the azeotropic equivalent of the diphenylamine therein whereby all of the diphenylamine in said reaction mixture is distilled over in said aniline hydrochloride-diphenylamine azeotrope fraction.

2,656,290
PROCESSES FOR THE PREPARATION OF CYCLOPOLYMETHYLENIC KETONES
Max Stoll, Geneva, Switzerland, assignor to Firmenich & Co., successeurs de la Societe Anonyme M. Naef & Cie., Geneva, Switzerland, a corporation of Switzerland
No Drawing. Application September 27, 1948, Serial No. 51,481. In Switzerland October 7, 1947
9 Claims. (Cl. 260—586)

1. A process for the preparation of cyclopolymethylenic ketones, having ten to 18 carbon

atoms in the ring, consisting in reducing the hydroxy group of a 1-2 cyclopolymethylenic ketol, having in the ring the same number of carbon atoms as that of the desired ketone, to a CH_2 group by reducing the same with a reduction agent comprising metallic zinc in such manner that only minor quantities of the keto group contained in the molecule are reduced.

2,656,391

PROCESSES FOR THE PREPARATION OF α-β UNSATURATED CYCLOPOLYMETHYLENIC KETONES

Max Stoll, Geneva, Switzerland, assignor to Firmenich & Co., successeurs de la Societe Anonyme M. Naef & Cie., Geneva, Switzerland, a corperation of Switzerland

No Drawing. Application September 27, 1948, Serial No. 51,482. In Switzerland October 7, 1947

3 Claims. (Cl. 260—586)

1. A process for the preparation of alpha-beta unsaturated cyclopolymethylenic ketones having 10 to 18 carbon atoms in the ring consisting in dehydrating a 10 to 18 ring carbon atom 1,2-cyclopolymethylenic ketol by passing vapors of said ketol under reduced pressure over a solid contact mass comprising aluminum oxide.

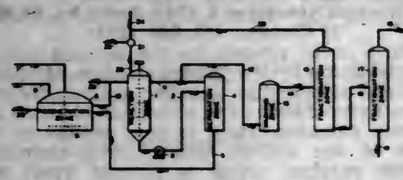
2,656,392

PROCESS FOR THE MANUFACTURE OF DIALKYL SULFIDES

Walter A. Schulze and Willie W. Crouch, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corperation of Delaware

Application December 13, 1948, Serial No. 65,008

10 Claims. (Cl. 260—608)



1. A process for the manufacture of dialkyl disulfides from low molecular weight mercaptans which comprises dissolving a mercaptan containing not more than 10 carbon atoms per molecule in an aromatic hydrocarbon selected from the group consisting of benzene and alkyl substituted benzenes, the resulting aromatic hydrocarbon solution exclusive of mercaptan containing at least 80 per cent aromatics and the volume ratio of said solution to mercaptan being in the range of 2:1 to 5:1; contacting at an elevated temperature the mercaptan-aromatic hydrocarbon solution with an oxidizing solution consisting essentially of an aqueous cupric copper ion solution in which the concentration of cupric copper is in the range of 3 to 14 mol per cent and the ratio of cupric copper ion solution to mercaptan-aromatic hydrocarbon solution is in the range of 1:1 to 10:1 so as to substantially completely oxidize said mercaptan to the corresponding dialkyl disulfide; continuously removing a minor portion of the thus formed dialkyl disulfide-aromatic hydrocarbon-cupric copper ion mixture to a separation zone and removing therefrom said aqueous cupric copper ion solution; regenerating said aqueous cupric copper ion solution by changing cuprous copper therein to cupric copper and recycling same to said contacting; recycling a major portion of said dialkyl disulfide-aromatic hydrocarbon; separating the remaining minor portion of said dialkyl disulfide-aromatic hydrocarbon; recycling separated aromatic hydrocarbon; and recovering said dialkyl disulfide as a product of the process.

2,656,393

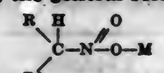
REACTION PRODUCTS OF HYDROGEN SULFIDE AND SALTS OF ACI-NITRO-HYDROCARBONS

Clarence S. Cee, Rolling Hills, and Thomas F. Doumani, Los Angeles, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corperation of California

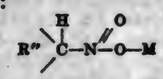
No Drawing. Application February 19, 1952, Serial No. 272,526

8 Claims. (Cl. 260—606)

1. Nitrogen-free sulfur-containing products obtained by reacting hydrogen sulfide with a compound selected from the class consisting of (1) salts having the general formula:



wherein R and R' each represents an alkyl radical and together contain a total of from 2 to 9 carbon atoms, and M represents a substituent selected from the class consisting of the alkali-metals and the ammonium radical, and (2) salts having the general formula:



wherein R'' represents a cyclic polymethylene chain containing from 3 to 7 carbon atoms and M represents a substituent selected from the class consisting of the alkali-metals and the ammonium radical, the deaction being carried out at a reaction temperature below about 200° C.

2,656,394

OXIDATION OF A NAPHTHYL DIALKYL METHINE

George G. Joris, Madison, and William D. Griffin, Morristown, N. J., assignors to Allied Chemical & Dye Corperation, New York, N. Y., a corperation of New York

No Drawing. Application June 23, 1951, Serial No. 232,246

3 Claims. (Cl. 260—610)

1. Process of oxidizing a naphthyl dialkyl methine to the corresponding methine hydroperoxide, which process comprises contacting said methine in liquid phase with elemental oxygen in presence of lead dioxide catalyst, and terminating the oxidation and recovering products at a stage when analysis of the products shows hydroperoxide preponderating heavily over by-products.

2,656,395

PREPARATION OF NITROOLEFINS

Richard Edward Benson, Clayment, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corperation of Delaware

No Drawing. Application June 8, 1951, Serial No. 230,680

7 Claims. (Cl. 260—644)

1. The process for the preparation of a nitroolefin which comprises reacting with nitric oxide an olefin containing more than two carbon atoms, said reaction being conducted in an acid medium in the absence of air at temperatures from 80 to 150° C. and under pressure of 50 to 400 pounds per square inch.

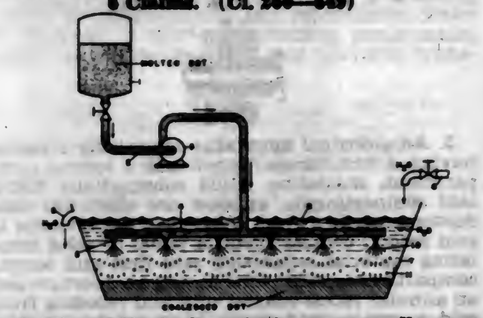
2,656,396

PRODUCTION OF DDT

Cyril Hayward, Tarentum, Pa., assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corperation of Pennsylvania

Application June 30, 1949, Serial No. 102,430

6 Claims. (Cl. 260—649)



1. The method of producing a normally waxy DDT material in a hard, solid form, that involves discharging the DDT material in molten form into a heat transfer liquid in the form of fluid filaments of said material, the heat transfer liquid being maintained at a temperature below about 50° C., with moving contact of the DDT material relative to the heat transfer liquid to cool the DDT material quickly from above its setting point to below 60° C., the said heat transfer liquid having no deleterious effect on the DDT at the said temperatures, and thereafter, without turbulent agitation, collecting and coalescing the fluid filaments of cooled DDT.

2,656,397

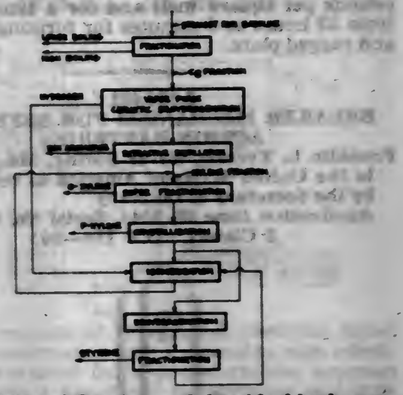
ISOMERIZATION AND SEPARATION OF XYLENES

George Heitman, Walnut Creek, and George M. Good, Albany, Calif., assignors to Shell Development Company, Emeryville, Calif., a corperation of Delaware

Application March 8, 1952, Serial No. 275,546

2 Claims. (Cl. 260—668)

1. The process for the selective catalytic isomerization of xylenes in the presence of ethyl benzene which comprises contacting a xylene fraction containing at least 8% ethyl benzene and at least one xylene in more than its equilibrium concentration and substantially devoid of aliphatic hydrocarbons with a xerogel catalyst consisting of alumina promoted with between



0.5% and 5% of fluorine and devoid of hydrogenation promoters in the presence of hydrogen under a pressure of from 50 to 1000 p. s. i. g. and at a temperature between 350° C. and 485° C. below that causing any appreciable splitting of alkyl groups, whereby the xylene is selectively isomerized to the exclusion of ethyl benzene.

2,656,398

POLYMERIZATION OF UNSATURATED COMPOUNDS WITH PALLADIUM OXIDE CONTAINING CATALYST

Albert N. De Vault, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corperation of Delaware

No Drawing. Application November 10, 1949, Serial No. 126,697

6 Claims. (Cl. 260—683.15)

1. A process for the polymerization of ethylene which comprises contacting ethylene at temperature in the range 0 to 250° C. with a catalyst consisting essentially of palladium oxide on a porous siliceous base.

ELECTRICAL

2,656,399

METHOD AND APPARATUS FOR CURING POSITIVE STORAGE BATTERY PLATES

Alva L. Hindall and William D. Carsen, Muncie, Ind., assignors to General Motors Corperation, Detroit, Mich., a corperation of Delaware

Application June 28, 1951, Serial No. 234,632

5 Claims. (Cl. 136—33)



1. In a method for curing a positive pasted plate of a lead storage battery while heating said plate in an oven at a temperature above 212° F. and below any temperature which will injure the plate, the steps of; soaking the plate in a humid atmosphere created solely by moisture driven from said plate paste, preventing any appreciable circulation of said atmosphere in the oven while maintaining the plate closely adjacent the top of the oven and confining the sides thereof so that the ratio of the area above the bottom plate to plate area is in the order of 1½ to 1 whereby the plate paste is cured and reduced in moisture content.

2,656,400

MANUFACTURE OF NEGATIVE PLATES

William D. Carsen and Alva L. Hindall, Muncie, Ind., assignors to General Motors Corperation, Detroit, Mich., a corperation of Delaware

No Drawing. Application June 28, 1951, Serial No. 234,164

5 Claims. (Cl. 136—33)

2. In a method for curing negative pasted plates wherein the initial paste consists of a mixture of red litharge, basic lead sulphate, hydrated lead compounds and metallic lead pasted onto a lead alloy grid and wherein the paste mixture has an initial moisture content of about 13%, the steps comprising; soaking the plate in a confined space and under progressively increasing tem-

peratures until the plate paste is reduced in moisture content to about 9% and then aging the plates in air for a time sufficient to reduce the moisture content to about 4½% and then pressure curing the plates in a closed chamber with steam under pressures ranging from 5 to 60 pounds per square inch and for a time ranging from 32 hours to 6 minutes for forming a strong and rugged plate.

2,656,401
BREAKER MECHANISM FOR DEFERRED ACTION BATTERIES
Franklin L. Everett, Silver Spring, Md., assignor to the United States of America as represented by the Secretary of the Navy
Application June 28, 1945, Serial No. 601,956
5 Claims. (Cl. 136—90)



2. In a deferred action battery, breaker means, a frangible sealed ampoule for containing electrolyte and having a tapered external surface portion, and resilient supporting and releasing means normally separating said ampoule and said breaker means and normally bearing against the tapered surface portion of said ampoule, said supporting and releasing means comprising a plurality of spring fingers deflectable by camming action of said tapered surface portion, whereby said ampoule is movable against said breaker means.

2,656,402
ELECTRODE FOR PRIMARY BATTERIES
Adolph Fischbach, Allenhurst, and Frederick Hechberg, Red Bank, N. J., assignors to the United States of America as represented by the Secretary of the Army
Application September 25, 1951, Serial No. 248,261
3 Claims. (Cl. 136—126)
(Granted under Title 35, U. S. Code (1952), sec. 266)



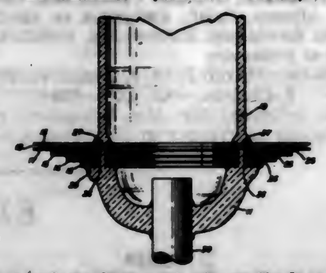
1. A method of making an extremely lightweight, porous, zinc-cadmium negative electrode of high mechanical strength for primary radio sonde batteries in which the negative electrode is made by pasting the active material into a supporting grid and subsequent drying and forming the pasted electrode characterized by making a pasty mixture of zinc oxide, cadmium oxide and water, pasting said mixture into a supporting metal screen, drying said pasted plate electrode and forming it cathodically in a forming solution to obtain a mixture of sponge zinc and sponge cadmium and finally washing and drying said porous zinc-cadmium electrode.

2,656,403
GROMMETED LEAD PANEL FOR OIL-FILLED ELECTRICAL APPARATUS
William C. Scaley, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Application April 24, 1950, Serial No. 157,831
3 Claims. (Cl. 174—18)



2. An electrical apparatus comprising a casing having a first compartment and a second compartment, insulating liquid substantially filling said compartments, at least one electrical conductor extending from said first compartment to said second compartment, a panel of solid insulating material separating said first and second compartments, said panel having an aperture and an annular recess coaxial with and receding from said aperture, said recess having opposite sides substantially normal to the axis of said aperture, a flexible washer shaped grommet wholly contained within said panel and disposed partly in said recess and partly in said aperture, said grommet having two opposite flat surface portions which abut said opposite flat sides of said recess, said conductor extending through said aperture and supported out of contact with said panel by said grommet.

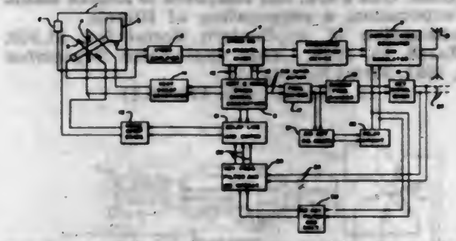
2,656,404
LAMINATED RING LEAD-IN FOR ELECTRON DISCHARGE DEVICES
Edward J. Walsh, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 1, 1950, Serial No. 198,597
10 Claims. (Cl. 174—50.63)



1. An envelope for an electron discharge device comprising a pair of vitreous wall portions, a plurality of conducting members seriately positioned between said wall portions and sealed thereto, insulating means between said members and sealing said members together, said members being spaced closely adjacent each other, and a vitreous member extending through said members and said insulating means, sealed thereto, and joined to said vitreous wall portions to strengthen the seals between said members.

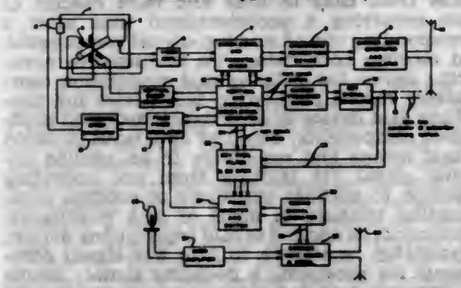
2,656,405
AIR KEY SUBSCRIBER TELEVISION SYSTEM
Erwin M. Roschke and Richard O. Gray, Broadview, Ill., assignors to Zenith Radio Corporation, a corporation of Illinois
Application June 28, 1948, Serial No. 35,698
21 Claims. (Cl. 178—5.1)

20. A subscription type television receiver for utilizing a coded television transmission including video components, synchronizing components and audio components and for utilizing an airborne key signal related to the coding schedule of said television transmission and constituting a modulation component of said television transmission, said receiver comprising: an image-reproducing device for synthesizing an image in response to said video components; a scanning system for synchronizing said reproducing device in response to said synchronizing components; circuit means for receiving said television trans-



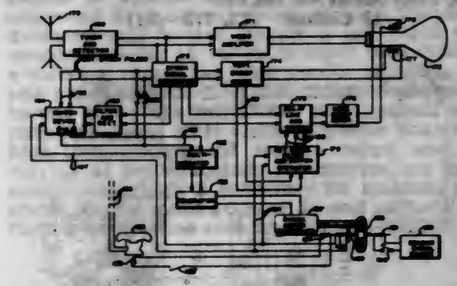
mission and for supplying said video components to said reproducing device and said synchronizing components to said scanning system; decoding apparatus included in said circuit means for effectively decoding said television transmission; a selector network coupled to said circuit means for separating said key signal from said television transmission; and means for utilizing the key signal from said selector network to control said decoding apparatus in accordance with said coding schedule to effect decoding of said television transmission.

2,656,406
SUBSCRIBER TELEVISION SYSTEM
Richard O. Gray and Erwin M. Roschke, Broadview, Ill., assignors to Zenith Radio Corporation, a corporation of Illinois
Application July 2, 1948, Serial No. 36,778
17 Claims. (Cl. 178—5.1)



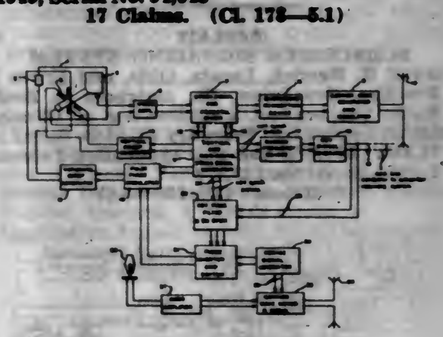
15. A subscription television system comprising: means, including an image converter and an associated scanning system, for translating a television signal representing an image; a first encoding device coupled to said means for varying the operating mode thereof to effect encoding of said television signal; means for deriving a first encoding signal having a predetermined characteristic which varies in accordance with and represents a first coding schedule; a second encoding device coupled to said last-mentioned means to receive said first encoding signal and vary said characteristic thereof to derive a second encoding signal representing a second coding schedule; and means for supplying one of said encoding signals to said first-mentioned encoding device to actuate said device in accordance with the coding schedule represented by that signal.

2,656,407
SUBSCRIBER SIGNALING SYSTEM
Roswell H. Herrick, Lorain, Ohio, and Erwin M. Roschke, Broadview, Ill., assignors to Zenith Radio Corporation, a corporation of Illinois
Application February 12, 1949, Serial No. 75,988
16 Claims. (Cl. 178—5.1)



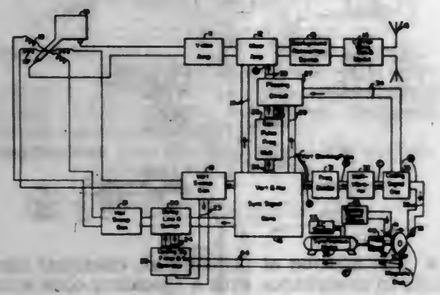
9. The method of utilizing an electrical signal coded in accordance with a repeating code schedule and received for a predetermined program interval and a key signal representing said code schedule and received for an interval short relative to said program interval which comprises, receiving said key signal for said short interval, storing said key signal during said short interval, receiving said coded electrical signal for said predetermined program interval, and utilizing said stored key signal recurrently to decode said coded electrical signal.

2,656,408
SUBSCRIBER SIGNALING SYSTEM
Richard O. Gray and Erwin M. Roschke, Broadview, Ill., assignors to Zenith Radio Corporation, a corporation of Illinois
Original application July 2, 1948, Serial No. 36,778. Divided and this application May 21, 1949, Serial No. 94,643
17 Claims. (Cl. 178—5.1)



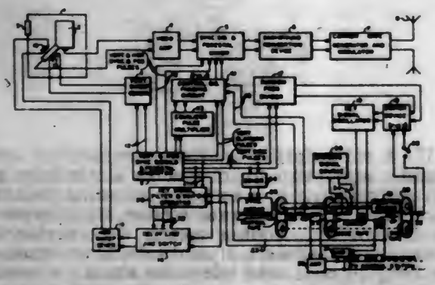
17. A subscription television transmitter comprising: apparatus for producing a television signal representing in a series of scanning fields recurring at a selected rate picture intelligence to be transmitted; coding means for varying the mode of transmission of said television signal effectively to code said television signal; a control system for supplying an actuating signal to said coding means effectively to actuate said coding means at a rate faster than the aforesaid selected recurrence rate of said scanning fields; and means coupled to said control system for varying said actuating signal and the actuation of said coding means at a rate slower than said selected recurrence rate of said scanning fields.

2,656,409
SUBSCRIBER SIGNALING SYSTEM
George V. Morris, Melrose Park, and Bertrand J. Miller, Oak Park, Ill., assignors to Zenith Radio Corporation, a corporation of Illinois
Original application March 15, 1949, Serial No. 81,552. Divided and this application January 12, 1950, Serial No. 138,232
18 Claims. (Cl. 178—5.1)



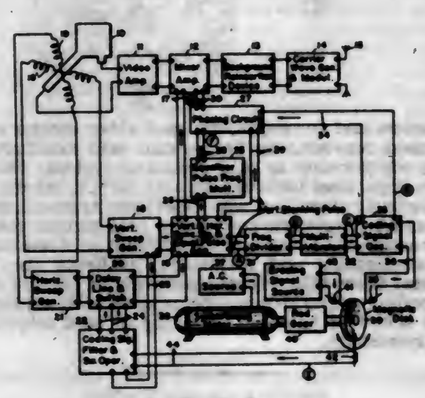
16. A subscription type of wave-signal transmitting system comprising: apparatus for producing a modulated carrier-wave signal having modulation components representing intelligence to be transmitted; a coding device coupled to said apparatus for varying the mode of operation of said transmitting system in accordance with a coding schedule; a generator for developing a signal representing a first portion of said coding schedule; a code selector coupled to said generator for providing a second portion of said coding schedule; and an actuator controlled conjointly by said signal from said generator and by said code selector and coupled to said coding device to operate said coding device in accordance with the combined first and second portions of said coding schedule.

2,656,410
SUBSCRIBER SIGNALING SYSTEM
Roswell H. Herrick, Lorain, Ohio, and Erwin M. Roschke, Broadview, Ill., assignors to Zenith Radio Corporation, a corporation of Illinois
Original application February 12, 1949, Serial No. 75,988. Divided and this application February 7, 1950, Serial No. 142,878
9 Claims. (Cl. 178—5.1)



9. The method of transmitting subscription type electrical signals for predetermined program intervals which comprises, producing an electrical signal for a predetermined program interval, generating a key signal for an interval short relative to said program interval, recording said key signal, utilizing the recorded key signal repeatedly currently to code said electrical signal, transmitting the coded electrical signal to a remote point on a first signal channel, and transmitting said key signal to said remote point on a second signal channel.

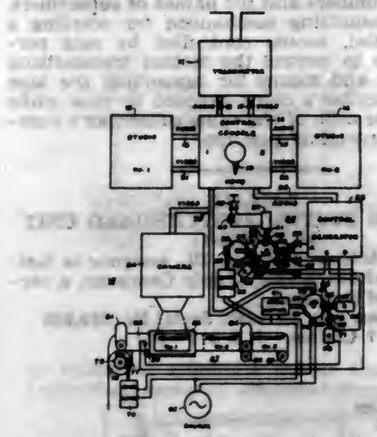
2,656,411
TELEVISION SUBSCRIBER SIGNALING SYSTEM
George V. Morris, Melrose Park, and Bertrand J. Miller, Oak Park, Ill., assignors to Zenith Radio Corporation, a corporation of Illinois
Continuation of application Serial No. 81,552, March 15, 1949. This application September 5, 1951, Serial No. 245,178
13 Claims. (Cl. 178—5.1)



1. A subscriber receiver for utilizing a coded carrier-wave signal having modulation components representing transmitted intelligence and having interposed key-signal components, said modulation components occurring in different modes from time to time and each change of mode occurring a predetermined time after a corresponding one of said key-signal components, said receiver comprising: an intelligence-reproducing device for utilizing said modulation components; means coupled to said device for controlling said device in accordance with said modulation components; decoding apparatus included in said means and responsive to an applied decoding signal for shifting from one operating condition to another effectively to produce compensating changes in mode of said modulation components as applied to said reproducing device; a generator responsive to said key-signal components for producing a decoding signal; means for applying said key-signal components to said generator; and time-delay apparatus coupling said generator to said decoding apparatus and exhibiting a time delay substantially equal to said predetermined time for supplying said decoding signal to said decoding apparatus with a delay of said predetermined time.

2,656,412
TELEVISION TYPE FACSIMILE TRANSMISSION SYSTEM
John Hays Hammond, Jr., Gloucester, Mass.
Application December 11, 1948, Serial No. 64,807
8 Claims. (Cl. 178—6.7)

5. In a television receiving system, a kinescope having a screen, means feeding a sensitized film past the field of said screen for printing therefrom, and timed means to alternately actuate said kinescope to project a picture onto said film and then feed an unexposed part of said film to the field of said screen, and means for automatically processing the exposed film.



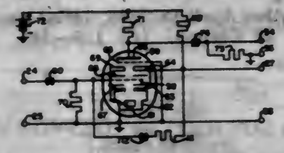
2,656,413
TELEVISION RECEIVER
Charles Leslie Faudell, near Stoke Poges, England, assignor to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain
Application July 24, 1948, Serial No. 40,530
In Great Britain July 31, 1947
8 Claims. (Cl. 178—7.3)



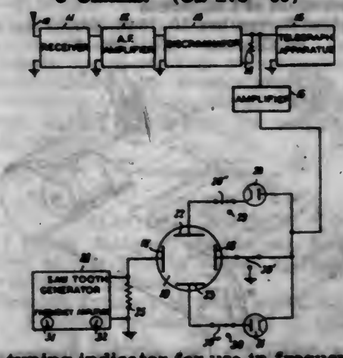
6. A television receiver including a picture reconstituting device operating at line and field frequencies, a signal channel connecting the signal input of said receiver to said device, said channel including an electron discharge tube, an alternating current path connected to said tube for passing signals of the field and higher frequencies, a direct current path connected to said tube for passing signals of zero frequency, and means for attenuating those frequencies lying between 1 cycle per second and field frequency more than other frequencies in said channel to substantially reduce fading of the mean brightness of the reconstituted picture due to television signals reflected from moving objects.

2,656,414
VIDEO-FROM-SYNC AND SYNC-FROM-SYNC SEPARATOR
Erwin M. Roschke, Broadview, and Walter S. Druz, Chicago, Ill., assignors to Zenith Radio Corporation, a corporation of Illinois
Application May 21, 1949, Serial No. 94,642
3 Claims. (Cl. 178—7.3)

3. A synchronizing-signal slicing circuit comprising: an electron discharge device having in the order named an electron gun including a cathode, a control system comprising a first accelerating electrode included in said electron gun and an input grid following said first accelerating electrode at a distance greater than the smallest transverse dimension of the aperture of said first accelerating electrode, a second accelerating electrode, a control grid, and an anode, and having an anode current vs. input grid voltage characteristic comprising two voltage ranges of substantially zero transconductance separated by a voltage range of high transconductance and further having a low input grid conductance for all values of input grid voltage; a source of composite video signals including two sets of synchronizing-signal pulses individually having a voltage amplitude with respect to a reference signal level which is greater than said high-transconductance voltage range and recurring at predetermined frequencies; an input circuit comprising a condenser for coupling said source to said input grid and to said cathode and further comprising resistance means coupled between said input grid and said cathode and providing with said condenser a time constant at least as long as the period of the lowest of said predetermined frequencies; a source of gating signals which are substantially in phase with one of said sets of synchronizing-signal pulses; means for coupling said source to said control grid and to said cathode and for biasing said control grid to pass space current only during the peak intervals of said gating signals; a first load impedance coupled to said anode and to said cathode for deriving gated output voltage pulses of substantially constant amplitude occurring at the frequency of said one set of synchronizing-signal pulses; and a second load impedance coupled to one of said accelerating electrodes and to said cathode for deriving output voltage pulses of substantially constant amplitude and including components corresponding to each of said sets of synchronizing-signal pulses.



2,656,415
TUNING INDICATOR FOR FREQUENCY SHIFT TELEGRAPH SYSTEMS
Renat Terlecki, Taplow, England, assignor to British Telecommunications Research Limited, Taplow, England, a British company
Application August 13, 1951, Serial No. 241,531
In Great Britain September 21, 1950
5 Claims. (Cl. 178—69)



1. A tuning indicator for use in frequency shift telegraph systems for indicating the tuning of a

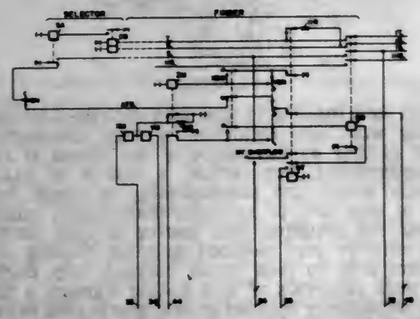
receiver in the system relatively to the mark and space frequencies employed in the system, the tuning indicator comprising a cathode ray tube having two pairs of beam deflecting plates, two input terminals, means to connect the said input terminals to the two plates respectively in one of said pairs, rectifier means connected between one of the input terminals and one of the plates in the other of said pairs, and further rectifier means connected between the said one of the input terminals and the other of the plates in the other of said pairs and being oppositely poled with respect to said first mentioned rectifier means.

2,656,416

LINE FINDER DUAL-ALLOTTER SYSTEM

Frank Kessler, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York

Application April 13, 1948, Serial No. 20,745
21 Claims. (Cl. 179—18)



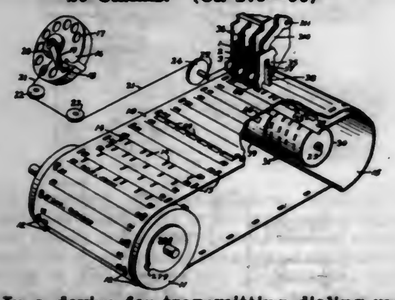
1. In a telephone system; two groups of lines; a control equipment for each group, each control equipment being normally controlled only from its associated group of lines; a group of line finders, each finder having access at all times to all of said lines; means responsive to a calling condition on any of said lines and the operation of the control equipment associated with that line for operating any one of said line finders to seek said calling line; and means for transferring the control equipments from one to the other of said groups of lines for operating any one of said line finders.

2,656,417

AUTOMATIC TELEPHONE DIALER

James Kilburg, Burlingame, Calif., assignor to James Kilburg Corporation, San Mateo, Calif., a corporation of California

Application November 30, 1948, Serial No. 62,720
20 Claims. (Cl. 179—90)



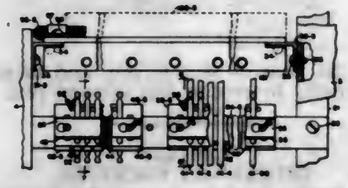
1. In a device for transmitting dialing motion to a telephone, an elongated advanceably supported paper-like tape with transverse areas for the reception of perforate codes representing telephone numbers and for names of subscribers, motion transmitting mechanism for rotating a telephone dial, means controlled by said perforate codes to control the motion transmitting mechanism, and means for supporting the tape with a subscriber's name exposed to view while the perforate code of the same subscriber's number is in controlling position.

2,656,418

CROSSBAR SYSTEM SWITCHBOARD UNIT MOUNTING

Richard P. Arthur, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, a corporation of Delaware

Application July 25, 1952, Serial No. 300,939
7 Claims. (Cl. 179—91)



1. In combination, a switchboard frame defining a generally rectangular upright mounting space, a terminal frame and means for supporting it within the switchboard frame to divide said space into similar front and rear portions accessible respectively from the front and rear faces of the switchboard frame, means on said switchboard frame for supporting two similar sections of apparatus units respectively within the said front and rear portions, the apparatus units of either section each extending across said space and being disposed one above another in a column, each said apparatus unit having local terminal apparatus connected thereto comprising a strip of local terminal members for contact with respective frame terminal members, a front set and a rear set of frame terminal members and means for supporting them on respective sides of the terminal frame in position to be contacted by the local terminal members when the respective strip means for the rows of local terminal members are disposed horizontally one above another, and means for supporting any said strip of local terminal members in a horizontal position adjacent to its apparatus unit and with its terminal members in contact with respective frame terminal members.

2,656,419

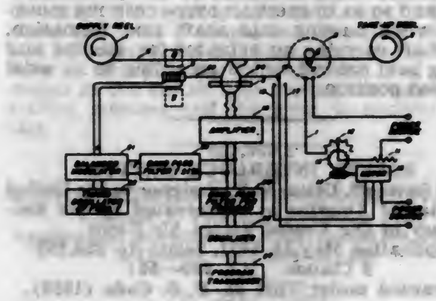
MAGNETIC TAPE RECORDER-REPRODUCER

Edward N. Dingley, Jr., Arlington, Va.

Application August 16, 1951, Serial No. 242,117
9 Claims. (Cl. 179—100.2)

1. A signal recording and reproducing apparatus comprising means for recording a complex electrical signal and a timing signal on a moving signal storage medium, moveable signal-reproducing means for reproducing the recorded complex electrical signal and the recorded timing signal, means for separating said reproduced signals, and means for utilizing the phase variations of the reproduced timing signal to position the said moveable signal-reproducing means including means to correct the average speed of the said moving signal-storage medium in such

manner as to reduce or eliminate frequency variations in the said reproduced timing signal and



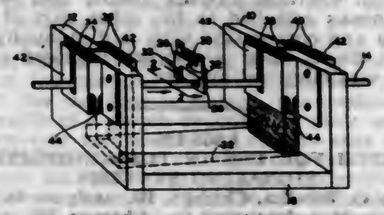
to reduce or eliminate flutter and wow in the reproduced complex electrical signal.

2,656,420

RECORDER HEAD

Reuben A. Isberg, Lynbrook, N. Y., assignor to the United States of America as represented by the Secretary of the Navy

Application June 23, 1945, Serial No. 601,157
12 Claims. (Cl. 179—100.2)



1. In a magnetic tape recorder head for use with a movable recorder tape, spaced guiding means for said tape, means associated with one of said guiding means for lubricating said tape, means associated with the other of said guiding means for wiping said tape, and relatively pivoted intelligence transferring jaws operatively associated with said tape, said jaws being between said guiding means, said jaws having pivoting means above said tape.

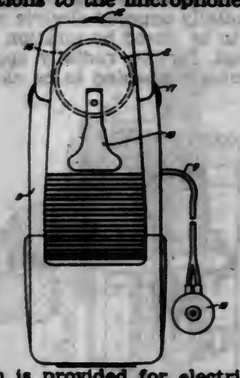
2,656,421

WEARABLE HEARING AID WITH INDUCTIVE PICKUP FOR TELEPHONE RECEPTION

Samuel F. Lyberger, Canonsburg, Pa., assignor, by mesne assignments, to E. A. Myers & Sons, Inc., Mount Lebanon, Pittsburgh, Pa., a corporation of Pennsylvania

Application October 21, 1950, Serial No. 191,422
3 Claims. (Cl. 179—107)

1. A wearable hearing aid wherein a microphone that is resiliently supported in a case to be worn by a hard of hearing person is normally electrically connected to an amplifier that is connected with a receiver, characterized by the fact that an inductive pickup coil which is adapted to be energized by the alternating magnetic field of an adjacent telephone receiver is supported in the case by means of the microphone to increase the weight and inertia of the microphone in order to reduce mechanical transmission of case vibrations to the microphone, and an electric switch is provided for electrically connecting said coil to the amplifier.

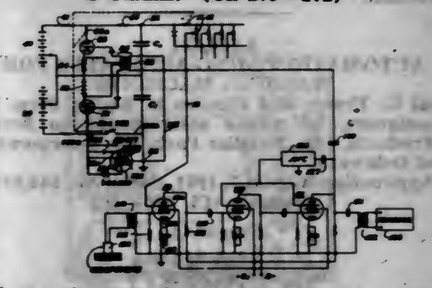


2,656,422

GAIN CONTROL SYSTEM FOR SEISMIC AMPLIFIERS

George B. Loper, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

Application October 25, 1948, Serial No. 56,456
5 Claims. (Cl. 179—171)



1. A gain control for an amplifier for seismic prospecting where the average amplitude of seismic waves received at a recording station decreases as a function of time, comprising a gain controlling circuit for said amplifier having therein a pair of series-connected condensers, a separate charging circuit for each of said condensers for respectively charging them to voltages of predetermined magnitude and of opposite polarity, a normally open discharge circuit for each of said condensers, one of said discharge circuits including means for maintaining uniform the value of the discharge current, and means operable in timed relation with the initiation of the seismic waves for completing said discharge circuits for controlled variation of the sum of the voltages of said condensers for varying the gain of said amplifier.

2,656,423

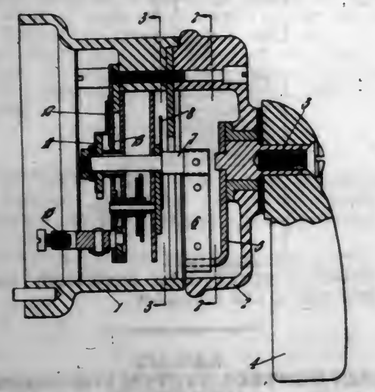
ELECTRIC SWITCH

Albert Henry Midgley, Northwood, England, assignor of one-half to Albert Merrell Midgley, Northwood, England

Application January 15, 1951, Serial No. 206,003
In Great Britain January 17, 1950
4 Claims. (Cl. 200—35)

1. An electric switch for use with traffic indicators on motor vehicles comprising a switch

handle, a spindle adapted to be rotated by the switch handle, a cam adapted to be rotated by the spindle, radially opposed electric switch contacts adapted to be closed by rotation of the cam in one direction, further radially opposed electric switch contacts adapted to be closed by rotation of the cam in the opposite direction, an arm on the cam, axially opposed electric switch contacts adapted to be closed by the rotation of the arm in one direction, and further axially opposed electric switch contacts adapted to be closed by rotation of the arm in the opposite direction.

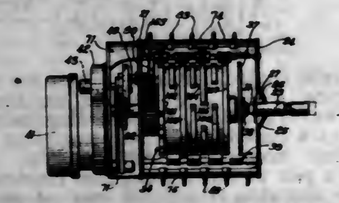


2,656,424

AUTOMATIC TIMING APPARATUS FOR WASHING MACHINES

Paul G. Frerer and Charles S. Smith, Peru, Ill., assignors, by mesne assignments, to Soreng Products, Inc., Schiller Park, Ill., a corporation of Delaware

Application August 7, 1951, Serial No. 240,672
4 Claims. (Cl. 200—35)



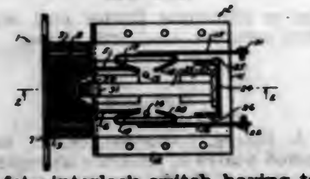
1. A timing mechanism for automatic washing machines comprising, a frame structure made up of a pair of end plates in parallel alignment and having therethrough aligned circular bores to serve as a journal for a principal rotary cam barrel assembly, a cylindrical cam barrel molded as a monoblock and having on its periphery a plurality of axially spaced circular cam discs and at one end an integrally molded gear wheel, the axial center of said cam barrel being bored to receive therethrough an operating shaft having a polygonally cross-sectioned neck adapted to fit into a similarly cross-section aperture at one end of said axial bore, means for confining said cam barrel against axial movement whilst permitting said operating shaft to be so moved reciprocally throughout a distance less than the length of said interfitting polygonal cross-sectioned neck and aperture, a power driven train for rotating said cam barrel assembly cyclically through said gear wheel, and means for detenting said shaft at each end of its said axial movement comprising an annularly turned ring formation on said shaft flanked by spaced annular depressions one on each side of ring formation, and a straddle spring fixedly mounted in said frame structure exerting a tension so as to retain said shaft and so as to exert an over-centering movement when passing said shaft ring formation, said shaft carrying an actuator for opening and closing said control switch according to its axial detented position.

2,656,425

SAFETY INTERLOCK SWITCH

David Satinoff, Utica, N. Y., assignor to the United States of America as represented by the Secretary of the United States Air Force

Application May 14, 1951, Serial No. 226,259
6 Claims. (Cl. 200—50)
(Granted under Title 35, U. S. Code (1952), sec. 266)



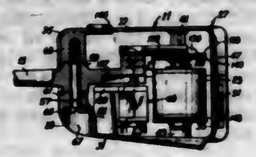
1. A safety interlock switch having two separable mating parts, said switch being closed by joining said parts and opened by separating said parts, means attached to one of said parts and manually operable when said switch is open to form an electrical by-pass around said switch, and means attached to the other part of said switch and cooperating with said manually operable means when said switch is closed to remove said electrical by-pass.

2,656,426

SWITCH FOR USE IN TURN-INDICATING SIGNALING SYSTEMS

Henry G. Dibelka, Chicago, Ill., assignor to Auto Lamp Manufacturing Co., Chicago, Ill., a limited partnership

Application May 10, 1950, Serial No. 161,199
1 Claim. (Cl. 200—61.27)



A switch for use in a turn-indicating signalling system comprising a housing, means at one end of the housing for attaching it to the steering column of a vehicle, a lever pivoted at the other end of the housing witn one end extending into the housing and its other end extending out of the housing, a pair of posts in the housing located toward its said one end and extending parallel to the pivot axis of the lever, a latch plate mounted for sliding movement on the posts, the lever having a detent at its end within the housing extending over and engageable by the latch plate, spring means biasing the latch plate into engagement with the detent, the latch plate being formed to latch the lever either in a right turn position on one side of a neutral position or a left turn position on the other side of neutral position, the latch plate being carried by a magnetic plunger slidable in a solenoid coil mounted in the housing, said coil, when energized, retracting the plunger and the latch plate against the bias of said spring means, a switch unit in the housing having right and left turn contacts and an operating member actuated by the lever for closing the right turn contacts when the lever is swung to right turn position and for closing the left turn contacts when the lever is swung to left turn position, and spring means in the switch unit biasing the switch operating member and the lever to neutral position.

2,656,427

AUTOMOBILE DOOR SWITCH DEACTIVATOR

Thomas J. Fierucci, Phoenix, Ariz.

Application December 24, 1951, Serial No. 263,070
3 Claims. (Cl. 200—61.52)



1. In an automobile door switch having a body inserted through an automobile door frame and an attaching plate securing it to said door frame, and having a plunger, normally held outward from said body by a spring, to open switch contacts included in an electrical lighting circuit within the car when pushed inward by the closing of the car door and close the said switch when the car door is opened, the combination therewith of a switch deactivating plate operating between said door frame and the edge of the door therein having an attaching hole pierced through its upper portion, a slot extending inward from one lateral edge to approximately its center and an upturned thumb tab formed adjacent the bottom of the opposite lateral edge to enable the user to swing said plate; a screw, forming a pivot support, extending through the attaching hole in the deactivating plate and threaded into the attaching plate of said switch body, arranged so that said deactivating plate is pivotally supported in front of the face of said switch body plate with the notch in said deactivating plate disposed to receive said switch plunger when said deactivating plate is in normal downwardly depending position, whereby said door switch will operate normally; the lateral portion of said deactivating plate opposite said notch being disposed to hold said switch plunger inward to maintain said switch open when swung from the normal depending position to a tilted position with said lateral portion in register with said plunger.

2,656,428

DIFFERENTIAL PRESSURE SWITCH

Eli E. Harris, Clayton, Mo., assignor to Essex Manufacturing Co., Inc., St. Louis, Mo., a corporation of Missouri

Application June 30, 1950, Serial No. 171,475
12 Claims. (Cl. 200—81.5)

12. A switch, comprising a housing; a pair of opposed spaced diaphragms within the housing dividing it into an inner chamber and a pair of outer chambers; a contact carried by each diaphragm and extending into the inner chamber; a member extending into the inner chamber and supporting an element of varying thickness for movement between the contacts and relative thereto.

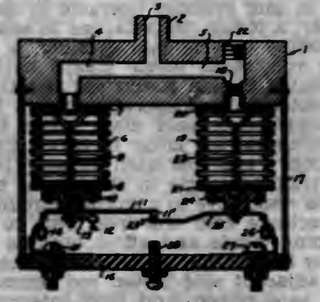


2,656,429

FLUID PRESSURE OPERATED SWITCH

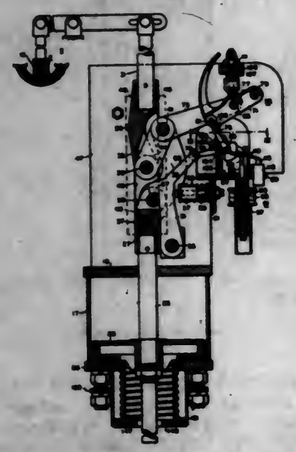
Robert H. Tietjen, Davis, Calif., assignor to the United States of America as represented by the Secretary of the United States Air Force

Application November 14, 1951, Serial No. 256,283
4 Claims. (Cl. 200—81.5)



1. In a fluid pressure system including an auxiliary source of fluid pressure, a fluid pressure operated switch comprising a housing having a fluid pressure passage extending into one side thereof and connected to two separate branch passages therein, fluid flow constriction means in one of said branch passages, pressure responsive bellows members, each connected at one end thereof to a respective branch passage and at the other end thereof to a resilient switch arm, contact means on the respective switch arms aligned and normally in spaced relation, a tensioning means operatively associated with one of said switch arms and connected to one of said bellows members for adjusting the normal spacing between said contact means, and an adjustable abutment means in the side of the housing opposed to the fluid pressure passage and in the plane of the contacts whereby on normal fluid pressure the bellows members will expand, the restricting means retarding its associated bellows member expansion and whereby the contact means will immediately close to eliminate the auxiliary source of fluid pressure and on reduction of fluid pressure will immediately separate to provide an activation of the auxiliary source of fluid pressure at a point spaced from the closing point.

2,656,430
CIRCUIT BREAKER MECHANISM
Roswell C. Van Sickle, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 21, 1951, Serial No. 232,776
10 Claims. (Cl. 200—82)



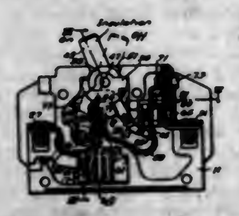
1. A circuit interrupter having movable contact means biased to open position, operating means for said interrupter comprising a cylinder, a piston in said cylinder operable to close said interrupter, a piston rod attached to said piston and extending outside said cylinder, a breaker operating rod, main toggle means having one end connected to said piston rod and the other end connected to said operating rod, a tripping toggle connected to said main toggle for normally restraining the latter in thrust transmitting position, a trip-free latch normally restraining said tripping toggle in restraining position, trip means responsive to abnormal circuit conditions to actuate said trip-free latch to release said tripping toggle and effect opening of said interrupter free of said piston, main latch means disposed adjacent said piston rod normally restraining said piston and said interrupter in closed position, a non-trip-free latch normally engaging and restraining said main latch in restraining position, and said non-trip-free latch being selectively operable to release said main latch means and effect opening of said breaker while said main toggle means remains in thrust transmitting position.

2,656,431
CONTROL FOR AUTOMATIC WASHING MACHINES
John Bochan, Trenton, N. J., assignor to General Electric Company, a corporation of New York
Application April 21, 1951, Serial No. 222,255
1 Claim. (Cl. 200—83)



A fluid pressure activated switch comprising a cup shaped open ended collapsible bellows having a marginal flange, a cup shaped casing having a marginal flange, said bellows and casing being adapted to have their flanges fastened together to form a liquid tight housing and to have clamped between the flanges the edge of an opening through a wall of a vessel adapted to contain a liquid, spring means in the housing for biasing said bellows to its extended position, an actuating plunger in the housing which at its one end engages the end wall of said bellows, the other end of the plunger extending into said casing, a switch enclosed in said casing having a movable switch arm with which the lower end of said plunger engages for actuating the switch by movement of said bellows, an armature carried by said switch arm, and an electromagnet in the casing positioned below said armature in a series circuit relation with said switch and which when energized serves to hold said switch arm in actuated position independently of said bellows.

2,656,432
CIRCUIT BREAKER
Harlan S. Gano and Gerald J. Freese, Beaver, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Original application May 7, 1945, Serial No. 592,446, now Patent No. 2,624,815, dated January 16, 1953. Divided and this application March 19, 1952, Serial No. 277,416
14 Claims. (Cl. 200—88)

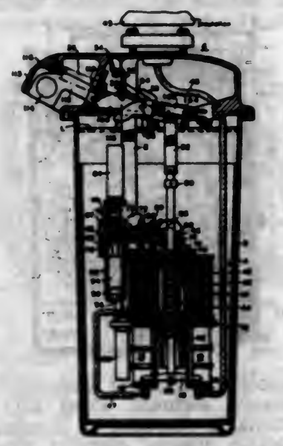


1. In a circuit breaker, relatively movable contacts, releasable means for effecting automatic opening of said contacts, a thermally responsive member electrically connected in series with said contacts and heated in response to the current of the circuit of the breaker, said thermally responsive member flexing when heated a predetermined amount in a direction to effect release of said releasable means, and electromagnetic means comprising a U-shaped core member embracing said thermally responsive member, said thermally responsive member acting as an energizing means for said core member, and a movable armature pivotally supported on one leg of said U-shaped member, said armature being operable by said core member in response to overload currents of predetermined value and having a portion thereon engageable with said thermally responsive member to deflect it and effect release of said releasable means.

2,656,433
AUTOMATIC RECLOSING CIRCUIT BREAKER
Andrew W. Edwards, East McKeesport, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 3, 1949, Serial No. 113,933
11 Claims. (Cl. 200—89)

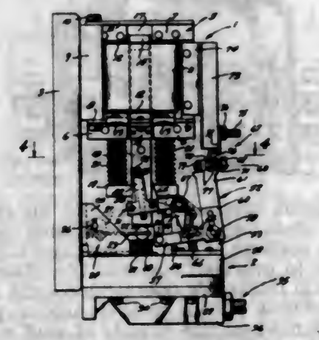
9. An automatic reclosing circuit breaker comprising, separable contacts, means operable to automatically cause separation of said contacts in response to overloads on the circuit, means responsive to a circuit opening operation for automatically closing said contacts, dashpot means

including movable valve means operable to effect a predetermined delay in certain operations in a sequence of operations of said overload responsive means, and time delay means operable only in



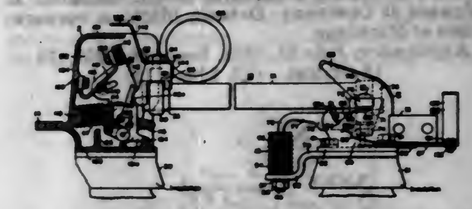
response to overloads above a predetermined value to increase the delay in such of said certain operations of said overload responsive means in which the overload occurs.

2,656,434
TIME DELAY RELAY
Theodore B. Jechem, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application July 30, 1951, Serial No. 239,224
15 Claims. (Cl. 200—168)



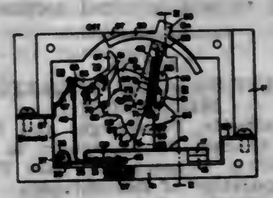
4. In a timing relay, electrical contact means biased for movement from normal position to a shifted position, latch means operable to hold said contact means in normal position against the bias thereon, latch tripping means biased for movement toward said latch means and operable upon engagement therewith to trip the same and thus effect shifting of said contact means, regulable time delay means to retard the latch tripping movement of said latch tripping means, and electromagnetic means including a movable portion biased to engage and prevent movement of said latch tripping means toward said latch means and independently of said latch tripping means to engage and hold said contact means in normal position, said movable portion being operable upon energization of the electromagnetic means to release said latch tripping means and contact means for shifting of said contact means at the expiration of a time delay interval and upon de-energization of the electromagnetic means to reset said latch tripping means and contact means to the initial positions thereof.

2,656,435
HIGH-VOLTAGE FUSE
Harold H. Fahnoe, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 8, 1950, Serial No. 160,650
4 Claims. (Cl. 200—114)



1. In a kick-out fuse, an elongated fuse holder having fusible means therein connected between spaced terminals on said holder, a line terminal, said line terminal including a housing having top and side openings for accommodating swinging movement of one terminal of said holder, means mounting said holder in a substantially horizontal position with said one terminal thereof in engagement with said line terminal for pivotal movement of said one terminal thereof through an opening in said housing and upwardly away from said line terminal, means biasing said holder in favor of said movement of the holder, a shield mounted on said holder at a position to cover at least the top opening in said housing in spaced relation therefrom when said one holder terminal is in engagement with said line terminal, and movable means inside said housing for normally restraining said one holder terminal against the effect of said biasing means and being releasable in response to fusion of said fusible means.

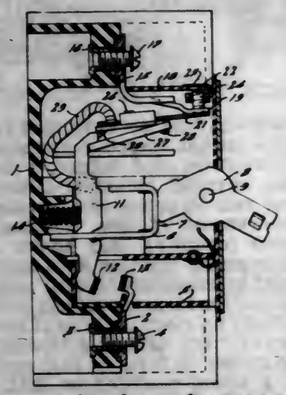
2,656,436
CIRCUIT BREAKER
Gerald J. Freese, Beaver, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 29, 1949, Serial No. 90,463
17 Claims. (Cl. 200—116)



1. A circuit breaker comprising stationary and movable contact means, a resilient switch member biased open and carrying said movable contact means, a rotatable member having a plurality of radial cam portions thereon, one of said radial cam portions normally engaging said switch member to maintain said switch member closed against its normal bias, a latch member having a portion engaging another of said radial cam portions to releasably restrain said rotatable member, a trip device operable to release said latch member and permit said biased switch member to rotate said rotatable member in one

direction to effect automatic opening movement of said switch member, and manual means movable between "off" and "on" positions and operable when moved from said "off" position to said "on" position to engage and rotate said rotatable member in said one direction to cause a third radial cam portion to engage and cam said switch member to closed position.

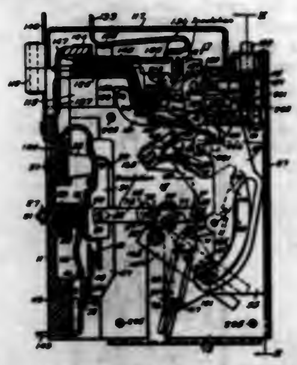
2,656,437
CIRCUIT BREAKER
Wallace T. Allen, Dearborn, Mich., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Application July 31, 1951, Serial No. 239,471
10 Claims. (Cl. 200—116)



1. In a circuit breaker, a base, an element releasable to effect automatic interruption of current flow through the breaker, biasing means for said element, a terminal member mounted on said base and having a portion extending interiorly thereof, a first bimetal having one end rigidly mounted to said portion, the free end of said bimetal normally latching said element but releasing the element upon the occurrence of abnormal current flow, a second bimetal, means mounting said second bimetal, an adjusting screw for effecting the application of pressure to said terminal portion whereby the relationship between said first bimetal and said element may be varied, and means interconnecting said adjusting screw and said second bimetal whereby the screw may be bodily moved upon flexure of said second bimetal to vary the amount of pressure applied to said terminal portion.

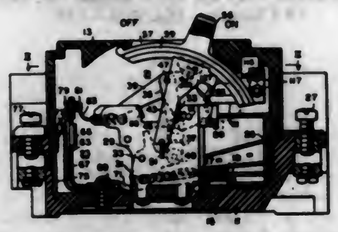
2,656,438
CIRCUIT BREAKER OPERATING MECHANISM
John K. Hodnette, Pittsburgh, and Merrill G. Leonard, Sharon, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Original application July 5, 1947, Serial No. 759,272, now Patent No. 2,586,429, dated February 19, 1952. Divided and this application August 8, 1951, Serial No. 240,876
6 Claims. (Cl. 200—116)

1. In a circuit breaker comprising a member releasable to effect automatic opening of said breaker, a trip device comprising a tripping bimetal element connected in the circuit controlled by the breaker to be heated in response to overload currents, said bimetal element when heated a predetermined amount deflecting to release said releasable member, and a second bimetal having its high-expansion side disposed closely adjacent to but insulated from said tripping bimetal element to be heated by the surrounding medium, said second bimetal element



normally opposing tripping deflection of said tripping bimetal element when said tripping bimetal deflects in response to heating thereof, and said second bimetal element when heated deflecting away from said tripping bimetal.

2,656,439
CIRCUIT BREAKER
Francis L. Gelzheiser, Pittsburgh, and Joseph A. Drobney, Beaver, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 11, 1951, Serial No. 246,982
12 Claims. (Cl. 200—116)



1. A circuit breaker comprising an enclosing housing, operating means releasable to cause automatic opening of said breaker and trip means responsive to overload currents for effecting release of said releasable operating means and automatic opening of said breaker, auxiliary switch means mounted on the outside of said enclosing housing, and actuating means for said auxiliary switch means mounted on the inside of said housing and engageable by said releasable operating means to effect operation of said auxiliary switch means.

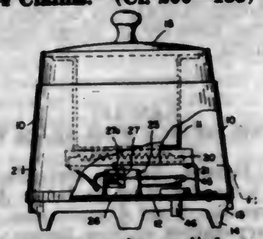
2,656,440
CIRCUIT BREAKER
Hiller D. Derfman, Beaver, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 7, 1952, Serial No. 270,402
14 Claims. (Cl. 200—116)

1. A circuit breaker having relatively movable contact means and operating means releasable to effect automatic opening of said contact means, a trip device comprising a trip member movable to release said operating means, a current responsive bimetal element heated in response to the current of the circuit, an ambient temperature responsive bimetal element mounted on said movable trip member for compensating said current responsive bimetal element for changes in ambient temperature, adjusting means on one of said bimetal elements for varying the tripping point of said trip device, said adjusting means



cooperating with the other of said bimetal elements upon thermal bending of said current responsive bimetal element to move said trip member and effect release of said operating means, and stop means on said movable trip member for limiting the amount of compensation provided by said ambient temperature responsive bimetal element.

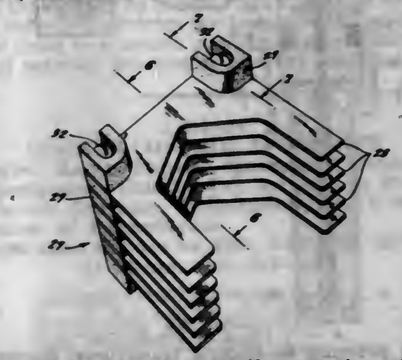
2,656,441
THERMOSTATIC SWITCH
Alfred D. Slatkin, Birmingham, Mich., assignor to Moth-King Corporation, Detroit, Mich., a corporation of Michigan
Application January 15, 1949, Serial No. 71,105
4 Claims. (Cl. 200—138)



4. A thermal responsive switch means for an electric heating device comprising a spring arm structure comprising a pair of spring arms, one of said arms carrying a contact, a bimetal element having another contact adapted for contacting engagement with contact on said spring arm and further provided with an extension constructed to latch with said other spring arm, said spring arm structure moved to first bring said contacts together and subsequently moving the spring arm, other than the one carrying the contact, relative to the element and the spring arm carrying said contact to latch same with the extension, said bimetal element responsive to a predetermined rise in temperature to which same is subjected to release said latch and disconnect said contacts.

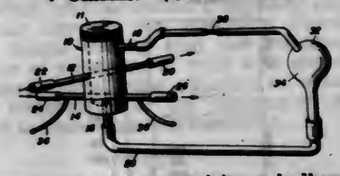
2,656,442
ARC EXTINGUISHING ELECTRICAL SWITCH APPARATUS
Lynn H. Matthias, Fox Point, and Hans Petersen, Wauwatosa, Wis., assignors to Allen-Bradley Co., Milwaukee, Wis., a corporation of Wisconsin
Application November 13, 1950, Serial No. 195,276
7 Claims. (Cl. 200—144)

1. In an electric switch for a plurality of phase conductors, a separate circuit interrupter for each said phase conductor comprising an insulating housing; a pair of spaced, stationary contacts mounted within said housing; terminals connected to said stationary contacts extending to the exterior of said housing; a movable contact bridge bar disposed within said housing including a pair of electrically joined, spaced, movable contacts disposed respectively in facing relation to said stationary contacts, said bridge bar and movable contacts being movable to and from an open position providing a pair of gaps between respective stationary and movable contacts and a closed position with respective stationary and movable contacts in engagement joining the stationary contacts electrically in series; an actuator cooperatively engaging said



bridge bar, extending to the exterior of said housing adapted to move said bridge bar to and from open and closed positions; and a pair of arc extinguishing assemblages one each being disposed within said housing adjacent to and spaced from one of said gaps at the ends of said bridge bar in arc receiving relation thereto, said assemblages each comprising a plurality of spaced, substantially parallel, electrically insulated, ferro-magnetic, cooling plates disposed in open pile arrangement with the edges of said plates facing their respective gaps, said plates having aligned openings therein with a columnar mounting and insulating member extending therethrough, said member having integral flanges thereon disposed between and separating said plates.

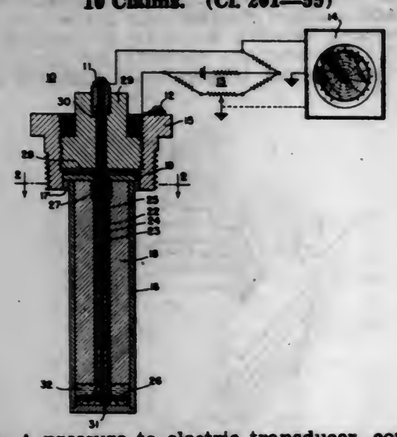
2,656,443
RADIO-FREQUENCY ENERGY TRANSFER SWITCH
Loren E. Bollinger, Columbus, Ohio, assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application January 30, 1953, Serial No. 334,346
7 Claims. (Cl. 200—152)



1. A switch device comprising a hollow housing made of an insulating material, two hollow separated electrical conductors passing through the hollow portion of said housing, an opening in the bottom of the hollow portion of said housing, means communicating with said latter opening for selectively filling and emptying the portion of said hollow housing extending between said sepa-

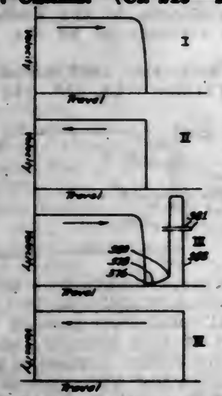
rated conductors through said opening with a highly conductive fluid whereby said conductors may be respectively electrically connected and disconnected.

2,656,444
PRESSURE SENSITIVE RESISTOR
Robert C. Du Bois, Philadelphia, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 16, 1952, Serial No. 315,154
10 Claims. (Cl. 201—55)



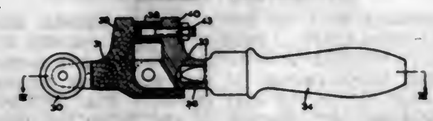
1. A pressure to electric transducer, comprising, an elongated hollow collapsible tube, an electrical element sealed within said tube, said element comprising a capillary tube having an electrically conducting coating on the inside thereof, an electrically conducting liquid arranged to short circuit a portion of said coating in accordance with the state of collapse of said tube, a second liquid filling all space in said tube outside of said capillary tube and not occupied by said conducting liquid, and a flexible member positioned in said tube to separate said conducting liquid from said second liquid.

2,656,445
WELDING MACHINE AND CONTROL AND ACTUATING MECHANISM
Ernest J. Svenson, Rockford, Ill., assignor to Odin Corporation, Chicago, Ill., a corporation of Illinois
Application June 23, 1948, Serial No. 34,764
27 Claims. (Cl. 219—4)



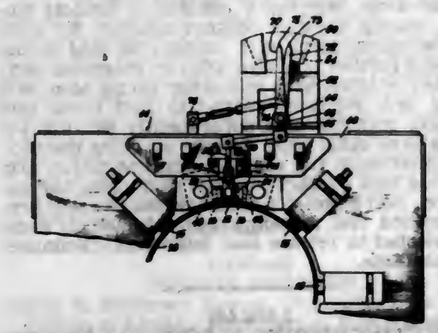
26. The method of effecting the resistance welding of work pieces which includes mounting the work pieces to be welded upon a plurality of work piece supports, applying welding potential to the work pieces, shifting the work pieces relatively toward each other in a controlled pattern of movement including a rapid traverse approach and a reduced feed approach velocity followed by an increasing velocity acceleration relative to the feed approach velocity as the work pieces approach contacting juxtaposition, and thereafter impacting the work pieces together with the welding potential applied.

2,656,446
ELECTRIC RESISTANCE WELDING TOOL
Adrien Albarrane, Paris, France
Application May 15, 1951, Serial No. 226,392
In France May 22, 1950
4 Claims. (Cl. 219—4)



1. In an electric resistance welding arrangement, a portable welding tool including a handle, an electrode, an electrode carrying member pivotally secured to said handle and adapted to enter a position in substantial alignment with the tool handle when operative, a spring urging the electrode carrier member into an oblique inoperative position with reference to the handle, and two cooperating contact pieces yieldingly carried by the electrode carrying member and by the handle respectively and adapted to engage one another operatively as soon as the electrode carrying member is urged into alignment with the handle.

2,656,447
INDICATING DEVICE FOR SEAM WELDING APPARATUS
Frederic M. Darner, Shaker Heights, Ohio, and Walter S. Schaefer, East Gadsden, Ala., assignors to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey
Application September 20, 1949, Serial No. 116,762
7 Claims. (Cl. 219—6)



2. In apparatus for welding a seam along a cleft in an article which is advanced in the direction of the cleft, said apparatus including a supporting structure to engage the advancing article, a welding device and provision for mutual adjustment between said device relative to said supporting structure and the article crosswise of the cleft, in combination, shiftable means adapted for continuous engagement with the cleft for sensing crosswise displacements of the cleft relative to said supporting structure, a movable indicating device having a linkage extending to said first-mentioned means for displacing the said indicating device in accordance with crosswise displacements of the cleft, a second indicating device adapted to be positionally controlled by the welding device and disposed closely adjacent the first indicating device, said indicating devices being disposed at a predetermined locality and being mutually movable under control of said first-mentioned means and welding device as aforesaid, for continuously exhibiting, by the relative positions of said indicating devices at said locality, the relative crosswise positions of the cleft and welding device to each other and to said supporting structure, the welding device being movable crosswise of the article, and means for adjusting the welding device in such crosswise direction, the indicating devices comprising a corresponding pair of hands separately pivoted on a common axis, the second of said hands having attached linkage adapted to be displaced by the welding device, for controlling said second hand.

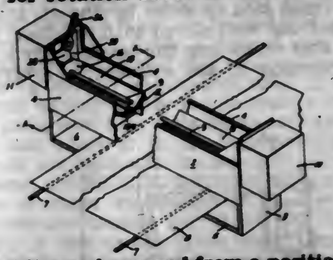
2,656,448
HEATED WIPER MECHANISM
David M. Lentz, Maple Heights, Ohio
Application November 22, 1950, Serial No. 197,056
1 Claim. (Cl. 219—19)



In a windshield wiper system for vehicles including a source of electrical power and a windshield traversing mechanism, a channeled metallic casing secured to said traversing mechanism, a wiper blade having an enlarged head portion carried immovably within the confines of the metallic casing and having a flexible depending blade portion for engaging a windshield, said wiper blade being constructed of a high heat resistant rubber, a thermally non-insulated electrical resistance member molded within the enlarged portion of said wiper blade adjacent to the metallic casing for good heat transfer relationship therewith and connected at one end to the source of power and at the other end to the metallic casing, and a flexible metallic heat conducting strip running longitudinally through the depending portion of the blade, the upper edge of said strip being in contact with said resistance member.

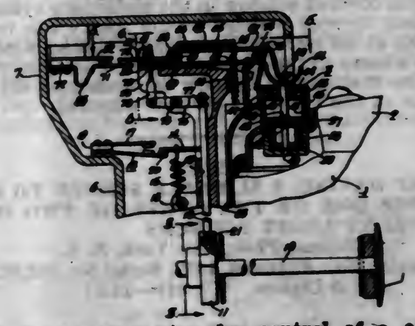
2,656,449
ELECTRIC RADIANT HEAT DRIER
Everett C. Elgar, Toronto, Ontario, Canada, assignor to Canadian General Electric Company, Limited, Toronto, Ontario, Canada, a corporation of Canada
Application April 28, 1952, Serial No. 284,746
In Canada May 1, 1951
4 Claims. (Cl. 219—19)

1. An electric radiant heat drier comprising an elongated housing structure having two end plates, a base plate and a pair of side walls terminating short of the base plate thereby providing a slot extending the length of the housing through which a travelling conveyor is adapted to pass carrying material to be dried, an electrical heating element mounted in the housing above the slot and coextensive therewith in a position to extend transversely of the conveyor and spaced in close proximity thereto, a trough-like reflector mounted in the housing and extending throughout the length of the heater element, means mounting said reflector in the housing for rotation about its axis in a manner



such that it may be moved from a position wherein it reflects heat from the heater to the material to be dried to a second position where it is interposed between the heater and the material.

2,656,450
COOKER CONTROL APPARATUS
Charles Roger Turner, Springfield Township, Montgomery County, Pa., assignor to Procter Electric Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 24, 1951, Serial No. 252,915
11 Claims. (Cl. 219—43)

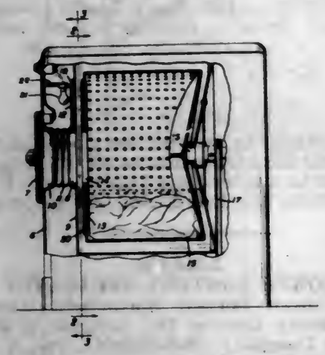


1. In an apparatus for control of a cooker equipped with a device having a fixed body and a projecting element movable by a variable condition within the cooker, a control stand including a base to receive the cooker and a standard extending upward from said base, electrical heating means on said base, a switch on said standard to be actuated in response to movement of said element relative to said body, the switch being in circuit with said heating means to effect desired control thereof, a member movably supported on said standard for engagement with said body, spring means biasing said member in the direction of engagement thereof with said body, means movably supported on said member to actuate said switch and including a member engageable with said element for operation thereby, and spring means biasing said last member in the direction of engagement with said element, said actuating means being effective to actuate said switch irrespective of the position of said first member as determined by said body.

2,656,451
ILLUMINATED ROTARY CLOTHES-WASHING BASKET
Hilda Rick, Manitowoc, Wis.
Application January 2, 1951, Serial No. 203,817
2 Claims. (Cl. 240—2)

1. In combination, a washing machine including a casing having a clothes door in its front

wall, a stationary cylinder in the casing spaced from at least one wall thereof to form a chamber between the said wall of the casing and the cylinder, and said cylinder having an axial opening in its front wall alined with the door, a clothes loading and unloading tub leading from the door to the opening in the cylinder, a rotary tub in



the cylinder also having an axial opening in its front wall alined with the first named opening, a glass covered window in the stationary cylinder, a glass covered window in the rotary tub registering at all times with the first named window, and a lamp in the chamber of the casing in front of the first named window to illuminate the interior of the tub through said windows.

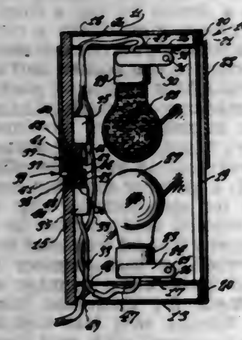
2,656,452

LAMP HAVING A SLIDABLE SCREEN TO EXPOSE ONE OR THE OTHER OF TWO DIFFERENT LIGHT SOURCES

Thomas Phils, New York, N. Y.

Application August 6, 1952, Serial No. 302,923

5 Claims. (Cl. 240—11.2)



1. A combination fog light and lamp comprising an upstanding, substantially transparent casing, a first electric bulb located interiorly of said casing at the top thereof, a second electric bulb located interiorly of said casing at the bottom thereof, a screen of opaque material surrounding said casing on all sides and extending substantially one-half the vertical length thereof and adapted to slide from top to bottom of said casing, and means operable by said screen for alternately illuminating said first and second bulbs.

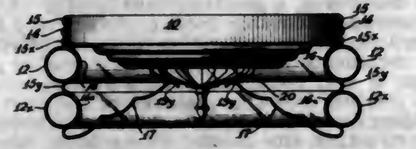
2,656,453

FIXTURE FOR ANNULAR FLUORESCENT LAMPS

Leon J. Segil, Winnetka, Ill., assignor to L. J. Segil Co. (Inc.), Chicago, Ill., a corporation of Illinois

Application May 16, 1949, Serial No. 93,445

9 Claims. (Cl. 240—51.12)



1. In a lamp fixture for mounting at least one annular tube lamp, improvements comprising, to wit: lamp mounting means including a base, at least three elongated spring fingers each attached at one end to a peripheral portion of said base in substantially equally spaced relation to each other about a central region of said base, and each said finger having an approximately vertically pendant portion with an adjoining and approximately horizontally extensive opposite free end portion turned radially inwardly and convergently to said central region of the base, said vertical portions of the fingers each further having an outwardly concave lamp-seating curve engageable with inner peripheral portions of an annular lamp.

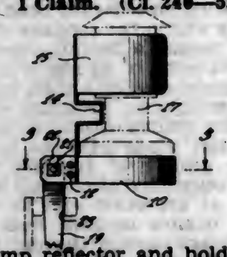
2,656,454

LANTERN AND REFLECTOR HOLDER HAVING PIVOTALLY ADJUSTABLE SUPPORTING ARM

Walter Yacyshyn, Cleveland, Ohio

Application July 9, 1949, Serial No. 103,813

1 Claim. (Cl. 240—52)



A gas lamp reflector and holder device comprising a band, means for connecting the band about a lamp to support the same, an attaching means supported about a pivot disposed substantially tangentially to said band connected to the band for effecting the attachment of the device to a supporting structure, an upright bracket connected to the band and extending upwardly and a reflector carried upon the bracket and adapted to surround the lamp throughout a part of its circumference, and said bracket having an inwardly bent portion adapted to have engagement with the lamp and prevent its downward displacement through the band.

2,656,455

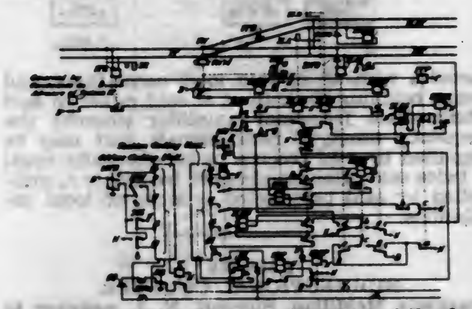
EMERGENCY CONTROL FOR CENTRALIZED TRAFFIC CONTROL SYSTEMS

Harry C. Van Tassel, Edgewood, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application October 28, 1949, Serial No. 124,020

5 Claims. (Cl. 246—3)

1. In a centralized traffic control system for a stretch of railway track including a track section having a track relay and an approach section having an approach relay each adapted to detect the presence of a train in its section, said system including a signal for governing the movement of traffic from said approach section into said track section, together with a signal control relay for governing the clearing of said signal, a communication circuit extending to a control office over which said signal control relay is manually controllable from said office, said system also including means controlled by said track relay for restoring the signal control relay automatically to normal when said track section is



occupied by a train, the combination of the foregoing with an emergency relay, means for operating said emergency relay effective when said communication circuit is disabled so as to prevent the manual control of said signal control relay, means controlled by said emergency relay in its operated position for rendering said signal relay responsive to the operation of said approach relay to effect the clearing of said signal automatically upon the approach of a train, and means for delaying the operation of the emergency relay if said communication circuit becomes disabled when the signal has been cleared by manual control, until the signal control relay has been restored automatically to normal by the release of said track relay.

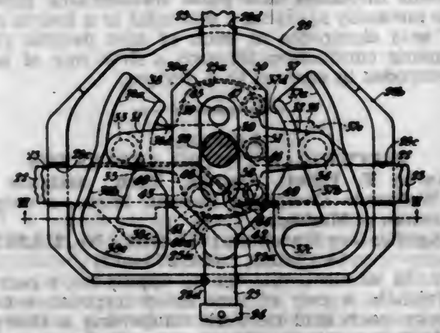
2,656,456

RAILWAY TRAFFIC CONTROLLING APPARATUS

Herbert A. Wallace, San Francisco, Calif., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application December 22, 1949, Serial No. 134,374

4 Claims. (Cl. 246—428)



1. Apparatus for operating a railway switch having independently movable switch points, comprising a pair of operating rods, each connected to one of said points, and a switch machine for separately operating said rods including a crankshaft rotatable between an intermediate position and opposite extreme positions, a pair of crank arms fixed on the shaft for rotation therewith, a pair of diametrically opposite crank pins on said arms, a pair of cam members, one attached to each of said rods, said cam members being located on opposite sides of said shaft and each having a cam slot to receive one of said crank pins, said cam slots being arranged so that when said shaft is in its intermediate position said rods are held with their switch points closed, said slots having first portions respectively contoured to cause movement of one or the other cam member toward the shaft and consequent opening of one or the other switch point as the shaft rotates in opposite directions from its intermediate position, said slots having second portions concentric with the shaft to hold each cam member fixed as the other cam member moves toward the shaft, said second slot portions being effective only during initial movement of the cam shaft from its intermediate position, a second pair of crank pins on said arms, and concentric cam surfaces on said cam members for engagement by said second crank pins when said second slot portions become ineffective to hold said cam members fixed during continued rotation of the cam shaft following said initial movement.

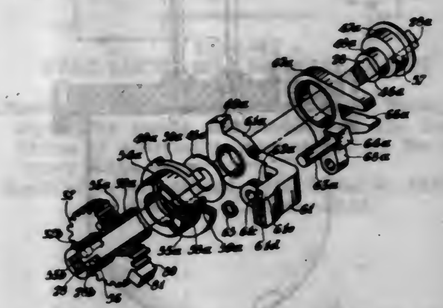
2,656,457

POINT DETECTOR LATCHING MECHANISM

Herbert L. Bone, Forest Hills, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application December 30, 1950, Serial No. 203,708

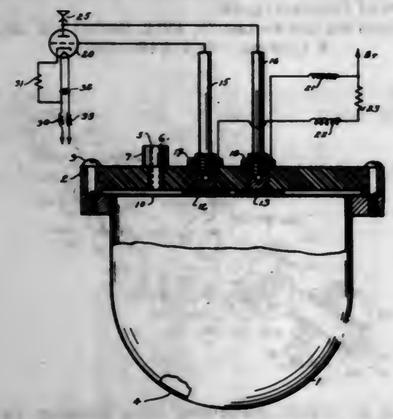
6 Claims. (Cl. 246—253)



1. In a circuit controller of a railway switch operating apparatus having a slide bar movable to two extreme positions corresponding to the two extreme positions of the switch points, the combination of two contacts, a shaft having reference surfaces thereon and two dissimilar ends, two dissimilar bearing supports for the ends of said shafts, each bearing support being adapted to receive a particular end of said shaft; a gear fixed on said shaft and rotated upon movement of said slide bar, means on said gear for engaging one of said reference surfaces on said shaft only when said gear is fixed to said shaft in the angular position predetermined by one of said reference surfaces, a contact operating member for each contact on said shaft and fixed in predetermined angular positions with respect to said gear so that upon movement of said slide bar from one extreme position to the other extreme position to rotate said shaft, said operating members will close the first of said contacts and open the second of said contacts when said slide bar is in one extreme position and close the second of said contacts and open the first of said contacts when said slide

bar is in its other extreme position; eccentric bushings on said shaft, operating levers journalled on said bushings, a point detector mechanism connected to said switch points and said operating levers, a third contact operating member rotatable on said shaft and operatively connected to said operating levers, means on said bushings for engaging said reference surfaces only when the eccentricities of said bushings are in a predetermined angular position with respect to each other and said gear so that when said point detector mechanism is operated by a displaced switch point said third contact operating member will be moved to open the closed contact, a latch member biased toward a latching position cooperating with said third contact operating member to hold said member in its contact opening position, and cam means rotatable with said shaft for moving said latch member to its unlatching position to release said third member when said slide bar is moved from one extreme position toward its other extreme position.

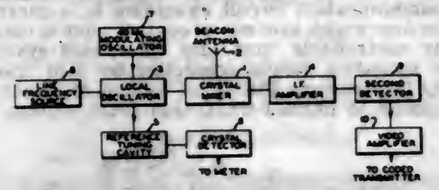
2,656,458
COMPRESSIONAL WAVE TELEMETERING DEVICE
Joseph M. Johnston, Bradley Beach, N. J., Joseph B. Olsen, Brooklyn, N. Y., and John A. Moulden, Red Bank, N. J.
Application October 1, 1951, Serial No. 249,204
3 Claims. (Cl. 250—17)
(Granted under Title 35, U. S. Code (1952), sec. 266)



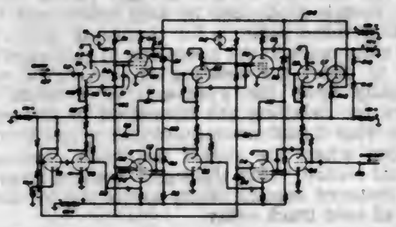
1. A compressional wave telemetering device, comprising a microphone oscillator having a microphone comprising a pair of disks capacitively coupled with a diaphragm within a cavity apertured to the outside air on both sides of the diaphragm, a tuned line attached at one end with said pair of disks, an oscillator tube having a transmitting antenna and having a plate grid circuit across which the unattached ends of said tuned line is connected and powered from a B+ power supply.

2,656,459
WIDE FREQUENCY COVERAGE BEACON RECEIVER
John H. Tinlot, Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application October 30, 1945, Serial No. 625,663
7 Claims. (Cl. 250—20)

1. A broad band radio receiver comprising an intermediate frequency amplifier having a frequency response characteristic wherein the power gain at a preselected upper frequency f_h is one-half the optimum gain, means for simultaneously generating a preselected number of local oscillations differing in frequency by substantially twice the frequency of f_h, a mixer for simultaneously heterodyning received radio frequencies with all of said local oscillations, and means coupling the output of said mixer to said intermediate frequency amplifier whereby the frequency range of radio signals that may be amplified by said receiver is substantially equal to twice said preselected upper frequency f_h multiplied by said preselected number of local oscillations.



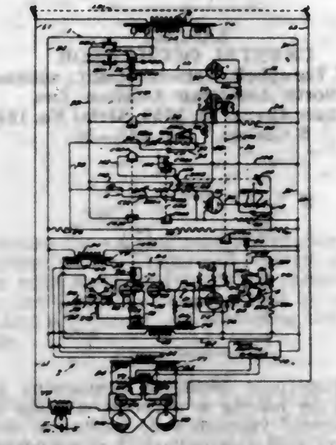
2,656,460
BIDIRECTIONAL COUNTER
Brockway McMillan, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 28, 1949, Serial No. 124,195
15 Claims. (Cl. 250—27)



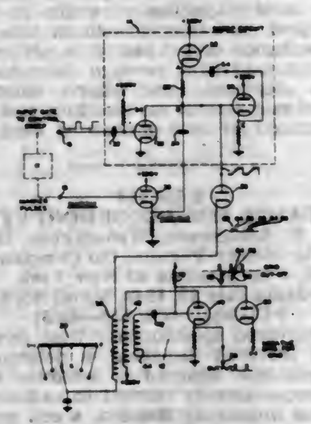
5. In a pulse-counting circuit, a pair of multielectrode electron discharge devices, means interconnecting three electrodes of each of said devices to form a trigger circuit, pulse input means, pulse transmitting means comprising an electron discharge device individual to said pair of devices and controlled by said pulse input means for applying a pulse to said interconnecting means to transfer conduction from one of said devices to the other of said devices, and means including said pulse transmitting means for normally applying a potential to a fourth one of said electrodes in each of said devices preventing conduction through a fifth one of said electrodes in each of said devices.

2,656,461
ELECTRICAL TIMING APPARATUS
Lauren F. Elliott, Detroit, Mich., assignor to Weltronic Company, Detroit, Mich., a corporation of Michigan
Application March 10, 1951, Serial No. 214,987
18 Claims. (Cl. 250—27)

1. In an electronic timing apparatus, a pair of terminals, a pair of time delay impedance networks, each said network comprising a chargeable energy storage device and a discharging circuit therefor, an electric valve having a pair of main electrodes and a control electrode, means including one of said networks connecting one of said main electrodes to one of said terminals, an impedance element, means including said element connecting the other of said main electrodes to said one terminal, means including another of said networks connecting said control electrode to the other of said terminals, means including a switch connecting said other main electrode to said other terminal, and means responsive to a charged condition of said one network for causing said switch to open.

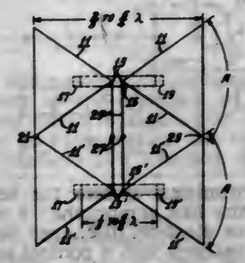


2,656,462
STABLE DELAY CIRCUIT
Frederick F. Slack, Medford, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application October 11, 1945, Serial No. 621,833
5 Claims. (Cl. 250—27)



1. A stable delay circuit comprising a block oscillator, a saw-tooth generator controlled by a periodically recurring base pulse, means to superpose synchronized accurately-timed marker pulses on the saw-tooth wave generated by the generator, a diode through which the superposed waves are fed to trigger the blocking oscillator, and a potentiometer to variably bias the diode in order to control the number of marker pulses which will be submerged before a marker pulse triggers the blocking oscillator.

2,656,463
BROAD-BAND DIRECTIVE ANTENNA
Oakley M. Woodward, Jr., Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 3, 1951, Serial No. 218,966
4 Claims. (Cl. 250—33.53)



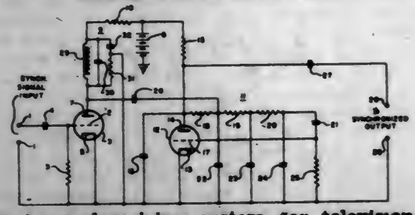
1. A broad band antenna structure comprising two separate triangular sheets of conductive material having apexes of acute angles adjacent to each other, the dimension across both sheets being substantially one wave-length at mid-band frequency, a strap of conductive material, said strap having a length of substantially one-half one wave-length at mid-band frequency, the width of said strap being considerably narrower than both the length thereof and widest dimension of said sheets, said straps being connected to the centers of said sheets and supporting said separate sheets at the ends of said strap, said strap being closely spaced from said sheets, and terminals at said adjacent apexes of said sheets.

2,656,464
FEED LOCUS FOR SEMIPARABOLIC REFLECTOR
Charles V. Robinson, Newton Center, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application November 5, 1945, Serial No. 626,844
11 Claims. (Cl. 250—33.65)



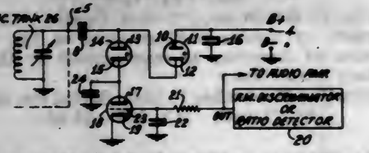
1. In a microwave antenna for producing a scanning beam, a semi-parabolic reflector surface positioned at one end of a parallel plate, wave guide member; a movable wave guide feed horn for illuminating said semi-parabolic reflector surface in said wave guide member; and means for mounting and pointing said feed horn from the focus toward a point in the mid-region of said reflector and for moving said feed horn along a portion of an arc of the circle which is tangent to the reflector at said point and passes through the focus, whereby a scanning output radiation beam is produced at the aperture of said wave guide member.

2,656,465
SYNCHRONIZING SYSTEM
Pierce E. Reeves, Park Ridge, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application May 12, 1948, Serial No. 26,642
4 Claims. (Cl. 250—36)



1. A synchronizing system for television receivers and the like comprising: a self-oscillating circuit; an electron discharge device having an anode, a cathode and a control electrode; an input circuit coupled between said control electrode and a cathode for receiving a periodic pulse synchronizing signal; a damped resonant circuit included in the circuit of said anode and tuned to be shock excited by said periodic pulse synchronizing signal to produce a train of damped symmetrical oscillations thereacross; and means coupling said anode to said self-oscillating circuit for injecting said train of damped oscillations into said self-oscillating circuit to synchronize the frequency and phase of said self-oscillating circuit with said periodic pulse synchronizing signal.

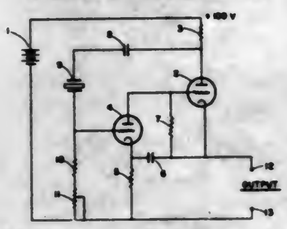
2,656,466
CAPACITOR AND CIRCUIT
William H. Cherry, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 27, 1949, Serial No. 112,818
10 Claims. (Cl. 250—36)



1. A variable high frequency capacitance circuit, comprising a gaseous discharge device having only two electrodes between which a glow discharge may occur, means for causing a flow of substantially unidirectional current between said two electrodes and through the gaseous medium to ionize said medium and establish a gaseous discharge in said device, means for varying the amount of current flowing between said two electrodes to vary the high frequency capacitance between said two electrodes, and means for connecting said two electrodes to a high frequency circuit for utilization of said high frequency capacitance.

4. A variable high frequency capacitance circuit, comprising a gaseous glow discharge device having a pair of electrodes between which a glow discharge may occur, means for causing a flow of substantially unidirectional current between said pair of electrodes and through the gaseous medium to ionize said medium and establish a glow discharge in said device, means responsive to the tuning of a high frequency oscillator for producing a control voltage proportional to the amount of mistuning of said oscillator, means responsive to said control voltage for varying the amount of current flowing through said device to vary the high frequency capacitance between said pair of electrodes, and means connecting said pair of electrodes to the frequency-controlling circuit of said oscillator to vary the output frequency of the same, by means of the variations in said capacitance, to alter the tuning of said oscillator to the proper output frequency.

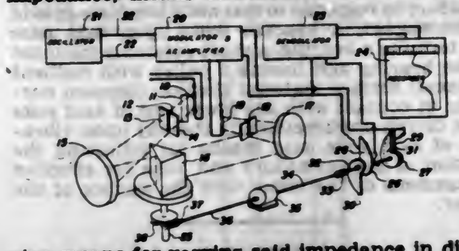
2,656,467
CRYSTAL OSCILLATOR
David H. Campbell, Norwalk, Calif., assignor to North American Aviation, Inc.
Application August 21, 1950, Serial No. 180,574
5 Claims. (Cl. 250—36)



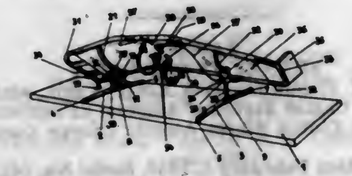
1. An electronic oscillator comprising a first vacuum tube having a cathode, a plate and a grid; a second vacuum tube having a cathode, a plate and a grid; a capacitance connected between the cathodes of said two tubes; a conductive connection between the plate of said first tube and the grid of said second tube; a piezoelectric crystal and a capacitor connected in series between the plate of said second tube and the grid of said first tube; a source of constant potential electromotive force resistively connected by its positive terminal to the plate of said second tube and resistively connected by its negative terminal to the grid and cathode of said first tube; and a resistance connected between the plate of said first tube and the cathode of said second tube whereby said first vacuum tube tends to discharge said first-named capacitance at a frequency corresponding to the natural frequency of said crystal but is prevented from discharging said capacitance while it is being charged, and said second vacuum tube charges said capacitance only when it is not being discharged by said first vacuum tube to thereby maintain electronic oscillations between the cathode of said second vacuum tube and the negative terminal of said source of electromotive force.

2,656,468
ATTENUATOR FOR RECORDING SYSTEMS
Carleton H. Schlesman, Washington, D. C., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application July 20, 1948, Serial No. 39,766
2 Claims. (Cl. 250—43.5)

1. An infrared spectrometer that comprises a source of infrared radiation, a detector of infrared radiation adapted to produce electrical signals proportionally related to radiation from said source impinging thereon, a cell containing a specimen interposed in the path of the radiation between the source and detector, means for dispersing the radiation transmitted by the specimen in accordance with wave length thereof, means for scanning the detector with said dispersed radiation, an oscillator for producing electrical oscillations that are alternating in character, modulating means responsive to the detection signals for altering a characteristic of said oscillations, an alternating current amplifier for amplifying the altered oscillations, an attenuator connected in the output circuit of said amplifier for attenuating the amplified altered oscillations that have average amplitudes above a predetermined value by a predetermined amount, said attenuator comprising an electrical impedance, means coordinated with said scanning means for varying said impedance in direct proportion to the change in energy of the envelope with wave length of the radiation given off by the source and transmitted by said specimen, and a recorder for recording the resultant signals.



2,656,469
METHOD OF AND APPARATUS FOR FLUOROSCOPING AND RADIOGRAPHING RENAL ORGANS OF THE HUMAN BODY
Albert Laur, Heidelberg-Baden, Germany
Application September 8, 1951, Serial No. 245,681
In Germany September 11, 1950
20 Claims. (Cl. 250—57)



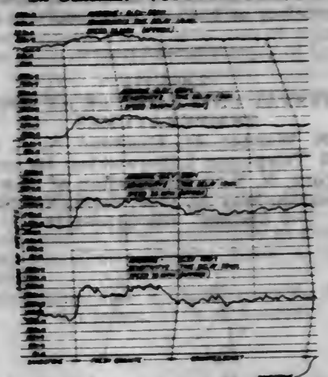
1. Apparatus for alternately fluoroscoping and radiographing renal organs of the human body while the body remains in identical position having a longitudinally arcuately shaped frame comprising longitudinal frame members extending substantially in parallel, identical intermediate sections of said frame members extending along straight lines, an X-ray-permeable support disposed between and carried by said frame members for receiving a patient, said patient facing said support, and the renal region of such patient's body coinciding with the portion of said support which extends between said straight intermediate frame sections, an X-ray tube disposed underneath said X-ray-permeable support, a holder for fluoroscoping and radiographing means disposed above said patient's dorsal renal region and adjusting means for positioning said frame with the portion of said support extending between said straight intermediate sections facing the focus of the X-ray tube.

2,656,470
PROSPECTING
Gerhard Herzog, Houston, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Original application March 9, 1948, Serial No. 13,842, now Patent No. 2,562,914, dated August 7, 1951. Divided and this application March 19, 1951, Serial No. 216,444
7 Claims. (Cl. 250—71)

3. In geophysical examinations involving detection and measurement of the intensity of gamma rays emitted from the earth at different locations along a traverse of an earth surface, the improvement which comprises detecting the gamma radiation with a bundle of pulse-type detectors, the aggregate active volume of which is relatively long in the direction of the traverse and relatively short in a direction transverse to the traverse and integrating the combined output of the detectors as a function of time.



2,656,471
PROSPECTING
Gerhard Herzog, Houston, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application March 19, 1951, Serial No. 216,443
12 Claims. (Cl. 250—83.6)

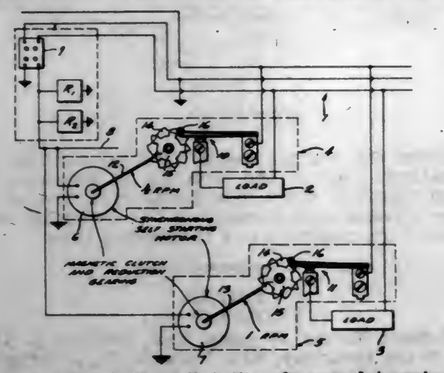


1. In prospecting, the improvement which comprises measuring the gamma ray intensities at a series of points along and a substantial distance above the surface of the earth area being prospected with an efficiency substantially greater than ½% and detecting together with the gamma radiation the intensity of background radiation present but with an efficiency no greater than that obtainable with a Geiger-Mueller counter having an efficiency no greater than one-half percent for gamma rays.

2,656,472
REMOTE-CONTROL SYSTEM
Hector Rawcliffe Putz, Toronto, Ontario, Canada, assignor to McGraw Electric Company, Milwaukee, Wis., a corporation of Delaware
Application March 17, 1951, Serial No. 216,127
6 Claims. (Cl. 307—140)

6. In a remote control system, a power line, a first and a second load, a first and a second receiver having switch means respectively controlling the connecting and disconnecting of said first and second loads to said power line and having motor means for operating the respective switch means, said second receiver having different predetermined closing and opening periods and said first receiver having different predetermined closing and opening periods twice as long as the respective periods of said second receiver, each of said receivers having biasing

means for returning its motor means to its initial starting position for each period when the motor means over-shoots, a pilot line connecting the motor means of said receivers, and control means



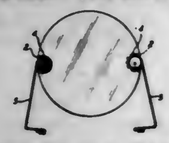
for energizing the pilot line for predetermined periods slightly greater than the periods of the respective motor means to selectively operate said second receiver or both of said receivers simultaneously.

2,656,473

CRYSTAL UNIT FOR USE AT HIGH TEMPERATURES

Arthur W. Warner, Jr., Fanwood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 24, 1950, Serial No. 163,835
9 Claims. (Cl. 310—8.2)



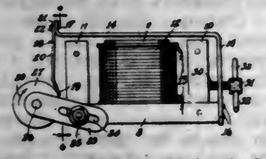
1. The combination, in a crystal unit having a mounting base, contact pins fixed therethrough and insulated therefrom, and resilient supporting and connecting means, of a piezoelectric crystal, and means for securing said crystal to said supporting and connecting means and for suppressing unwanted resonances, comprising a conducting ceramic paste fused to said crystal and about said supporting and connecting means.

2,656,474

VIBRATORY ELECTRICAL MOTOR

Rudolf Hermann Rohden, Bad Lippspringe, Germany, assignor of one-half to Erwin Winkelmann, Ossining, N. Y.

Application July 17, 1951, Serial No. 237,157
In Germany October 11, 1950
3 Claims. (Cl. 310—21)



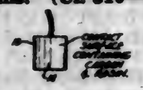
1. A vibratory electric motor adapted to be operated by alternating electric current or intermittent direct current, including a base, an electromagnet fixed upright upon the base, an armature having an upstanding portion secured at its lower end to the base and having a second generally horizontal portion fixed at one end to the upper end of said upstanding portion and extending over the electromagnet to be attracted thereby, a pendent yoke secured at its upper end to the other end of the generally horizontal portion of said armature and movable vertically with said armature in response to magnetic impulses of said electromagnet, a bracket fixed upon said base and forming a bearing, a shaft rotatably mounted in the bearing and having a pulley with resilient frictional surface material thereon disposed normally in contact with the lower end of said yoke to be driven unidirectionally thereby upon vibration of said yoke, and means for adjusting the position of said armature and yoke for effective engagement of the latter with the surface of the pulley.

2,656,475

ELECTRICAL MACHINE BRUSH AND METHOD OF PROLONGING ITS LIFE

John E. Diehl and Paul Smisko, St. Marys, Pa., assignors to Stackpole Carbon Company, St. Marys, Pa., a corporation of Pennsylvania

Application December 19, 1952, Serial No. 326,812
7 Claims. (Cl. 310—228)



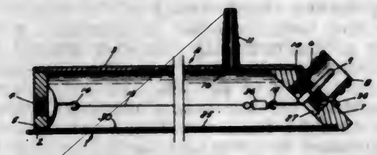
1. A brush having a contact surface adapted to engage a rotating current-collecting ring, the brush having polyfluoroethylene resin at said surface.

2,656,476

SURVEY INSTRUMENT

Ralph H. Firminhac, Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application February 1, 1950, Serial No. 141,743
1 Claim. (Cl. 313—93)



A survey instrument for use with polyatomic gases comprising an elongated hollow metallic casing, said casing having a slide with a window therein for the passage of radiations, a conductor disposed within and extending axially of the casing, said conductor being insulated from the casing, a nipple for continuously feeding a polyatomic gas to the casing, a thin plastic film of substantially .0002 inches in thickness carried by the slide and covering the window for limiting the egress of gas from the casing, and a shield extending across said window to resist the ingress of contamination.

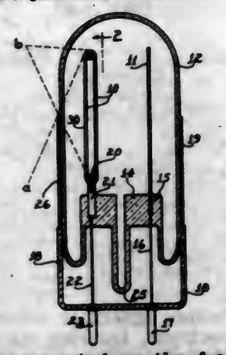
2,656,477

PHOTOELECTRIC CELL HAVING A LIGHT SENSITIVE ELECTRON EMISSIVE CATHODE

Robert J. Herbold, Denver, Colo., assignor to Lafayette M. Hughes, Denver, Colo.

Application May 25, 1951, Serial No. 228,267
4 Claims. (Cl. 313—94)

1. A light sensitive photo cell comprising a light transparent casing, a cathode having an extensive area of surface for light activation, an associated anode and terminals leading from the cathode and anode, and a shield terminating in an edge which is mounted to shadow an area of the cathode that varies in accordance with the directive angularity of light passing said edge, said cathode comprising a metal supporting frame and a plurality of substantially parallel



wire elements mounted on the frame for exposure to said light throughout the major extent thereof and collectively connected to the cathode terminal, each wire element having a light sensitive electron emissive coating, and the sum of the areas of the light sensitive coating exposed to directional light impinging thereon constituting the effective activation area of the cathode.

2,656,478

VOLTAGE REGULATOR

Herbert Friedman, Arlington, Va.

Application June 30, 1950, Serial No. 171,489
9 Claims. (Cl. 313—214)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a voltage regulator tube including an outer cathode member surrounding an anode member wherein the ratio of diameters is not less than and approaches the Napierian logarithm base, a filling medium for said tube consisting of helium in admixture with a small amount of a simple gas chemically inert with respect to the members under operating conditions.

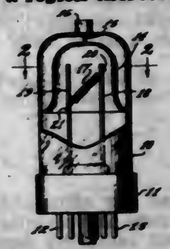
2,656,479

MOUNT FOR ELECTRON DISCHARGE DEVICES

William B. Brown, Hasbrouck Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application August 29, 1950, Serial No. 182,011
8 Claims. (Cl. 313—240)

6. A high voltage electron discharge device comprising an elongated envelope, an anode having spaced opposite wall portions extending parallel to the axis of said envelope and defining a space therebetween, two parallel rectilinear and coextensive lead-ins and support wires extending into said space from an end of and in axial parallel relation with said envelope and terminating in free ends in said space, said wires extending between said opposite wall portions of the anode and being disposed in a plane parallel to said envelope axis and including said opposite wall portions of the anode, whereby said wires define a space therebetween that is shielded from electrostatic forces from said opposite wall portions during operation of said device, and an elongated filamentary cathode in said shielded space, one end of said cathode being fixed to and adjacent a free end of one of said wires, the other end of said cathode being fixed to the other of said wires at a region thereof spaced from the



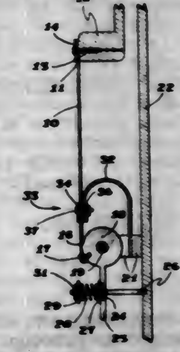
free end thereof, whereby said cathode extends diagonally between said wires and is shielded from said opposite wall portions of the anode, said anode having other portions on opposite sides of said shielded space, said other portions producing electrostatic forces that are of equal magnitude on each of said opposite sides of the shielded space, whereby the electrostatic forces acting on said cathode are balanced for preventing flexure of said cathode.

2,656,480

FILAMENT TENSIONING DEVICE

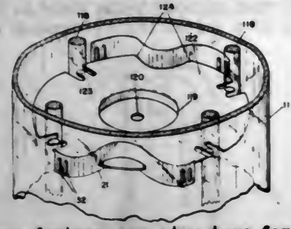
Paul I. Corbell, Cedar Rapids, and Robert J. Black, Marion, Iowa, assignors to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application July 9, 1951, Serial No. 235,816
3 Claims. (Cl. 313—278)



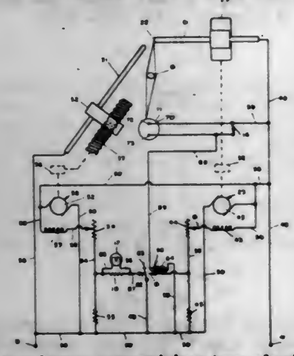
1. Means for maintaining a filament under substantially constant tension between a pair of supporting means comprising, first clamping means connecting one end of the filament to one of the supporting means, a standoff attached to the other supporting means, a shaft supported by said standoff, a cam supported on said shaft, the other end of said filament attached to the periphery of said cam, a lever attached to said cam and extending therefrom, a second shaft extending from the other supporting means and passing through an opening formed in said lever, spring biasing means attached to said second shaft and urging said lever arm toward the other supporting means, and a flexible feed-in conductor-connecting the other supporting means to the filament adjacent the cam.

2,656,481
ELECTRON GUN CENTERING DEVICE FOR CATHODE-RAY TUBES
Herndon W. Leighton, Montclair, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J., a corporation of Delaware
Application December 13, 1950, Serial No. 200,569
7 Claims. (Cl. 313—288)



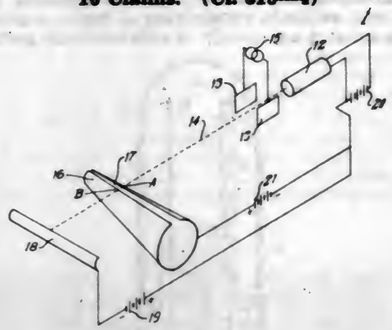
1. In an electron gun structure for a cathode ray tube, an electrode and a centering device for said structure, said centering device comprising a plate forming a part of said electrode extending radially outwardly therefrom, and a resilient metal strip member, said member being bowed in the center portion thereof having a longitudinal slot therein and curved end portions presenting a rounded surface on the outer ends thereof, said resilient member being attached to said plate with a portion of the end of said plate extending through said slot.

2,656,482
ARC LAMP
Arthur J. Hatch, Toledo, Ohio, assignor to The Strong Electric Corporation, Toledo, Ohio, a corporation of Delaware
Application September 14, 1950, Serial No. 184,837
15 Claims. (Cl. 314—63)



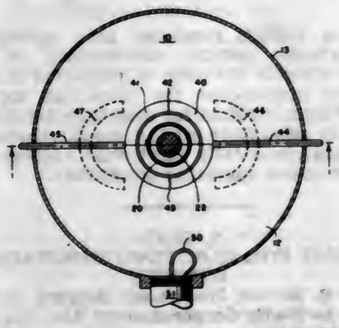
1. An arc lamp comprising two electrodes constructed and arranged to function as terminals of an arc, means constructed and arranged to automatically and continuously feed said electrodes each at a substantially constant rate, capable of change of the ratio between the respective rates of feed, and comprising a first electric motor connected to continuously feed one of said electrodes, a second electric motor connected to continuously feed the other of said electrodes, a first resistance connected to alter the speed of the first motor, a second resistance connected to alter the speed of said second motor, and an electric switch normally rendering said first resistance operative and not said second resistance, movable to a position rendering said second resistance operative and not said first resistance, and means constructed and arranged to automatically shift said switch responsive to change in position of the arc.

2,656,483
ELECTRON DISCHARGE DEVICE OF THE RESONATOR TYPE
Maurice Apstein, Bethesda, Md.
Application August 2, 1948, Serial No. 41,978
16 Claims. (Cl. 315—4)



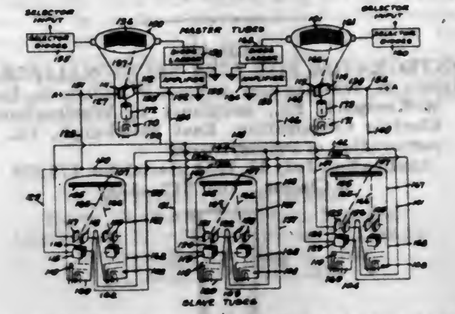
1. An oscillation generator which comprises a source of electrons, focusing means for concentrating said electrons into a beam, a resonator of tapered conical shape, a longitudinal slot in said tapered conical shape, said source of electrons being positioned substantially perpendicular to the longitudinal axis of said resonator whereby said beam travels across said slot in a path substantially tangential to the resonator surface, and a repeller electrode substantially parallel to said slot and positioned to reflect said beam back across said slot and deflecting means for movably positioning said beam between the respective ends of said resonator.

2,656,484
TUNABLE CAVITY
Bruce B. Cork, Peck, Mich., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application December 27, 1945, Serial No. 637,428
4 Claims. (Cl. 315—5)



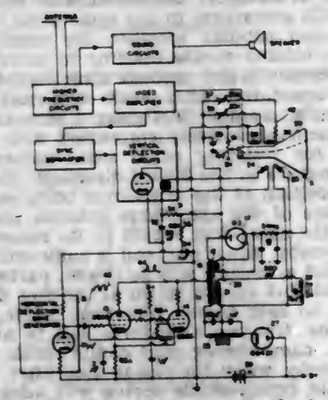
1. A cavity resonator formed by walls made of conductive material, there being an opening in said walls, a thin conductive ring disposed within said cavity resonator and occupying only a fractional portion of the distance between opposing wall surfaces in the vicinity of said opening, said conductive ring being split into segments, said segments when brought together having an inner boundary slightly larger than said opening, each segment of said conductive ring being movable to tune said cavity resonator, and an output loop disposed within said cavity resonator remote from said opening.

2,656,485
MEMORY TUBE CONTROL DEVICE
Chester H. Page, Silver Spring, Md., assignor to the United States of America as represented by the Secretary of the Army
Application October 8, 1951, Serial No. 250,377
7 Claims. (Cl. 315—9)
(Granted under Title 35, U. S. Code (1952), sec. 266)



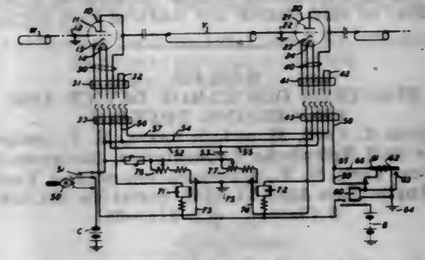
1. In a system for positioning the electron beam of a first cathode ray tube, a second cathode ray tube containing a pair of electrostatic plates for deflecting the electron beam thereof, an electrically conductive target for the electron beam formed of discrete rectangular segments separated by non-conductors, one end of said target being grounded means for grounding any selected number of segments including said grounded end, means for developing a potential on the electrostatic plates to retain the electron beam striking a spot about the non-conductor between adjacent grounded and non-grounded segments, and means for adjusting the potential on electrostatic plates in said first cathode ray tube in direct relationship to the potential of the electrostatic plates of said second cathode ray tube.

2,656,486
STABILIZED TELEVISION CIRCUIT
Americo F. Giordano, Newark, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J., a corporation of Delaware
Application September 28, 1950, Serial No. 187,263
8 Claims. (Cl. 315—22)



1. In a television receiver, a cathode ray picture tube having an anode and an electron beam subject to variations, a first source of potential connected to said anode and a second source of potential connected to said first source, both said potentials being subject to variations in accordance with variations of said electron beam and an electromagnet positioned adjacent said tube and having an external magnetic field extending within said tube to influence said electron beam, said electromagnet being connected to said second source.

2,656,487
VOLTAGE SUPPLY CONTROL CIRCUIT
William O. Fullerton, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 29, 1950, Serial No. 171,080
3 Claims. (Cl. 315—104)

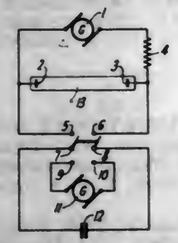


1. In combination, a plurality of thermionic tubes each having a filament and an anode, a plurality of cables each comprising a plurality of electric conductors, the conductors in each cable being connected to the filament and anode of a different one of said tubes, each of said cables having a multi-element terminating plug with two of its elements short-circuited, a plurality of multi-element receptacles for receiving said plugs, each of the elements in each of said receptacles being adapted to make electric connection with a corresponding element in the associated plug, a source of filament potential, a first circuit for connecting said source to a filament element in each of said receptacles, a source of anode potential, a second circuit for connecting said source of anode potential to an anode element in each of said receptacles, said second circuit being normally open, a relay having a first armature adapted to close said second circuit, a third circuit for energizing said relay, said third circuit having two normally open parallel paths, a thermal delay device for closing the first of said paths for energizing said relay, and a fourth circuit for connecting said source of filament potential to said thermal delay device for energization thereof, said fourth circuit including said short-circuited elements of each of said plugs and the corresponding receptacle elements connected in series, said relay having a second armature actuable in response to the energization of said relay for disconnecting said thermal delay device from said fourth circuit and for closing the second of said parallel paths.

2,656,488
ELECTRIC DISCHARGE DEVICE STARTER
Samuel M. Gray, Marblehead, and Raymond C. Svenson, Beverly, Mass., assignors to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application October 29, 1949, Serial No. 124,432
2 Claims. (Cl. 315—173)

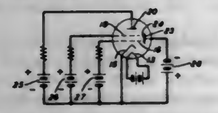
1. Apparatus for starting and operating a gaseous discharge lamp, said apparatus comprising a source of voltage of given polarity and sufficient to maintain said lamp in operation but insufficient of itself to start said lamp, said source of

voltage being connected in series with said lamp, and a condenser connected to discharge across



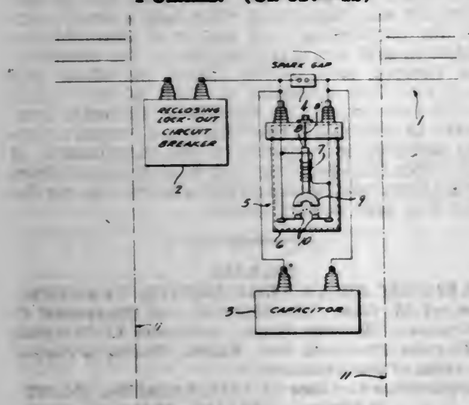
said lamp a transient voltage of opposite polarity to that of said source, for starting said lamp.

2,656,489
ELECTRON DISCHARGE DEVICE AND PROCESSING THEREOF
Gaylon T. Ford, Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 14, 1951, Serial No. 221,034
8 Claims. (Cl. 316—25)



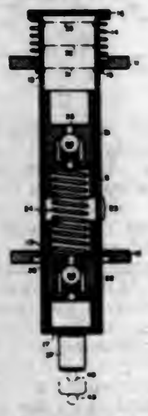
7. In the fabrication of electron discharge devices, the steps comprising positioning a getter material within the device, evacuating said device, applying a potential to the getter material negative with respect to the cathode within said device during the activation of said cathode, and connecting said getter material electrically to said cathode subsequent to the activation of said cathode.

2,656,490
SERIES CAPACITOR PROTECTIVE DEVICE AND SYSTEM
Anthony Van Ryan, South Milwaukee, Wis., assignor to McGraw Electric Co., Milwaukee, Wis., a corporation of Delaware
Application March 30, 1950, Serial No. 152,801
4 Claims. (Cl. 317—12)



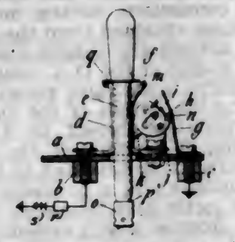
1. In an electrical distribution system, a power line, a capacitor connected in series with said line, electromagnetic means bridged across said capacitor, normally open switch means controlled by said electromagnetic means and connected across said capacitor, and a spark gap in parallel with said electromagnetic means and arranged to break down at a predetermined voltage, said normally opened switch means being held open by said electromagnetic means when said electromagnetic means is energized, said switch means being arranged to close when said spark gap breaks down and said electromagnetic means is deenergized.

2,656,491
INTEGRATOR FOR LINE-SECTIONALIZERS
James M. Wallace and Andrew W. Edwards, East McKeesport, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 21, 1950, Serial No. 175,272
8 Claims. (Cl. 317—178)



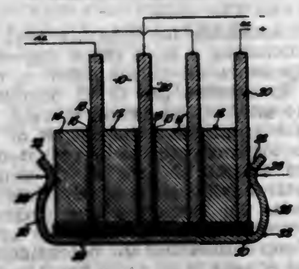
1. A resetting electromagnetic counter comprising: a tubular member which is closed at at least one end; a magnetizing coil for causing a magnetic flux to flow axially in an intermediate portion of said tubular member; means for mounting said tubular member so that it has some freedom of axial movement with respect to the axial-flux region of the magnetic flux produced by said coil; two normally spaced armatures which are axially movable within said tubular member; a compressible spring between the two armatures; biasing-means tending to move both armatures in the same axial direction within said tubular member for resetting the counter; biasing-means tending to move the tubular member in the opposite direction; dashpot-means associated with each armature within said tubular member including a movable dashpot element operatively connected with the armature for resisting rapid axial movement of that armature in the biased direction; the initial biased position of the armatures being such that a first one of the armatures extends materially beyond the axial-flux region in its biased direction, whereby, when said coil is sufficiently energized, that armature will be drawn partway into said axial-flux region in an advancing direction opposite to said biased direction, while, at the same time, the two armatures will be attracted together, compressing said compressible spring; and whereby, when the coil is thereafter deenergized, said compressible spring will advance the second armature while said first-mentioned armature temporarily remains substantially stationary; the proportions of the parts being such that a quickly following second energization of the coil will draw said first-mentioned armature further into said axial-flux region in said advancing direction, followed, on another quickly following deenergization of the coil, by a second advance of the second armature; the final movement of the armatures being such that, upon the last deenergization, of a predetermined succession of rapidly repeated energizations and deenergizations of the coil, the second armature will be in an advanced position extending so far beyond the axial-flux region, and the first armature will be so far within said axial-flux region, that a quickly following reenergization of the coil will force the tubular member in the direction toward which the armatures are biased, against the bias which is applicable to said tubular member.

2,656,492
AUTOMATIC LIGHTER
Harry Faulkner, Rochdale, England
Application May 31, 1950, Serial No. 165,247
In Great Britain June 10, 1949
5 Claims. (Cl. 317—89)



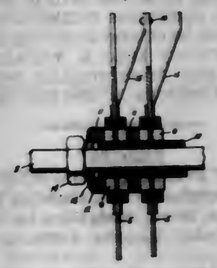
1. In a lighter comprising a withdrawable plunger with a wick projecting from one end, at least the said end part of the plunger being of conducting material, and an electrical circuit for lighting the wick upon withdrawal of the plunger: the arrangement which comprises a live contact connected to the electrical circuit, an earthed contact, at least one movable electrode projecting into the path of the conducting end of the plunger, means connecting the end of the plunger with one of the contacts as the plunger is withdrawn, and means connecting the electrode with the other contact when displaced by the end of the plunger as the latter is withdrawn, a spark being formed adjacent the wick as the end of the plunger leaves the electrode.

2,656,493
METALLIC RECTIFIER CONSTRUCTION
Harold B. Conant, Lincoln, Nebr.
Application September 5, 1950, Serial No. 183,183
5 Claims. (Cl. 317—234)



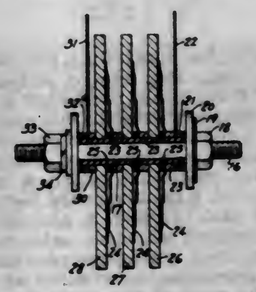
1. In combination, an electrical device having a stack of separate, dry plates adapted for unidirectional conductivity including a pair of opposed, outermost plates and a number of intermediate plates; means adapting at least one of said intermediate plates for electrical connection to an external circuit; and means for maintaining spring-pressure contact between the plates of said stack and for electrically interconnecting said outermost plates, said means including a pair of electrically interconnected, opposed, resilient, conductive members, yieldably biased together, said device being between the members, said members each being in contact with a respective outermost plate of said stack.

2,656,494
BLOCKING-LAYER RECTIFIER
Raymond Duval, Versailles, France, assignor to General Electric Company, a corporation of New York
Application June 20, 1951, Serial No. 232,496
In France November 14, 1950
4 Claims. (Cl. 317—234)



1. In a blocking-layer type rectifier, a rectifying element provided with a hole, a pair of spring contact washers each having annular inner and outer shoulders and an intermediate annular recessed portion joining said shoulders, said washers being disposed on opposite sides of said element with said outer shoulders each engaging the adjacent of said oposite sides and with said inner shoulders extending into said hole and engaging each other whereby said oposite sides are electrically connected.

2,656,495
SPRING WASHER
Cleveland S. Smith, Indiana, Pa., assignor to Syntron Company, Homer City, Pa., a corporation of Delaware
Application December 3, 1951, Serial No. 259,627
5 Claims. (Cl. 317—234)



1. A current collecting spring washer for use on dry disk rectifiers comprising a flexible metal disk having a plurality of annular concentric shoulders forming terraces and defining an equal number of annular land sections each lying in planes offset progressively from the center of

the disk outwardly, the central land section being furthermost from the plane of greatest diameter.

2,656,496

SEMICONDUCTOR TRANSLATING DEVICE

Morgan Sparks, Basking Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 31, 1951, Serial No. 239,609
18 Claims. (Cl. 317—235)



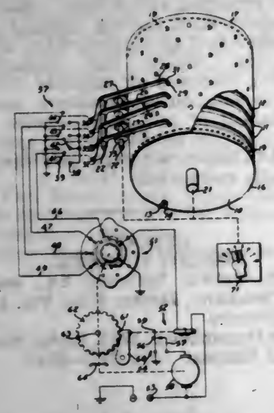
1. The method of differentially removing material from regions of one and of the opposite conductivity type in an element of semiconductor material which comprises immersing the element in an electrolytic bath and applying to the regions of one conductivity type a voltage positive to the path, thereby preferentially removing material from the regions of the one type.

2,656,497

SHAFT POSITIONING SYSTEM

Horst M. Schweighofer and Gordon E. Nicholson, Cedar Rapids, Iowa, assignors to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application February 10, 1950, Serial No. 143,498
10 Claims. (Cl. 318—19)



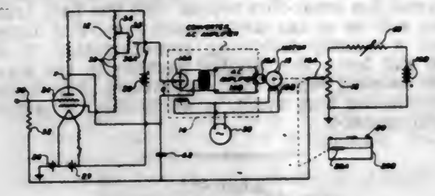
1. Apparatus for controlling the position of a shaft comprising, stop means engageable with said shaft, driving means connected to said shaft, actuating means connected to said motor and said stop means, a controlled switch connected to said actuating means, a plurality of conductors connected to said controlled switch, a cylinder rotatably mounted, a punched card fastened to the periphery of said cylinder, a plurality of pawls pivotally supported adjacent said cylinder and having one of their ends engaged with the cylinder or card depending on whether an opening is formed in the card at the contact point of the pawl, switch actuating portions extending from the opposite ends of said pawls, and a two-way switch attached to each actuating pawl and movable from a first position to a second position, and one of said plurality of conductors connected to each of the two-way switches.

2,656,498

ELECTROMETER AMPLIFIER NETWORK

Paul S. Goodwin, Pasadena, Calif., assignor to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California

Application March 19, 1949, Serial No. 82,337
15 Claims. (Cl. 318—28)



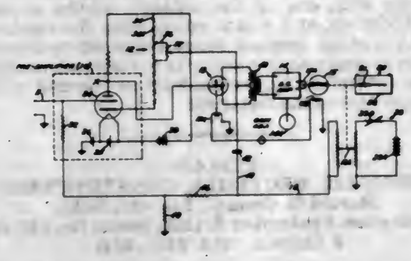
1. In a circuit for measurement of small currents, the combination comprising a D.C. amplifier with a relatively high input impedance and low output impedance and having a space-charge grid connection, control means for balancing a voltage obtained from the space-charge grid circuit against the output plate voltage to balance the output of the D. C. amplifier to zero level when there is no input signal, a converter for converting the output of the D. C. amplifier to an A. C. variation thereof, an A. C. amplifier for amplifying the output of the converter, a motor connected to be actuated by the output of the A. C. amplifier and, a potentiometer adjustable by said motor and connected to the D. C. amplifier to produce a null system.

2,656,499

ELECTROMETER AMPLIFIER NETWORK

Paul S. Goodwin, Pasadena, Calif., assignor to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California

Application October 10, 1949, Serial No. 120,437
12 Claims. (Cl. 318—28)



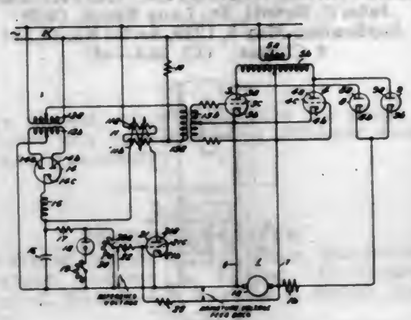
1. In an amplifier for measurement of small currents, including a high input impedance low output impedance D. C. amplifier, a converter connected to convert the D. C. output of said amplifier to an A. C. variation thereof, an A. C. amplifier for amplifying the output of the converter, a motor connected to be actuated responsive to the output of said A. C. amplifier, a potentiometer having an arm adjustable by said motor, means for detecting the magnitude of the adjustment of said potentiometer arm and a feed-back loop connecting the potentiometer arm to the input of said D. C. amplifier, the improvement comprising a capacitor connected between the feed-back loop and said converter, and a voltage divider connected in said feed-back loop between said capacitor and the D. C. amplifier input.

2,656,500

ELECTRONIC MOTOR CONTROL SYSTEM

Leo H. Dee, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application February 15, 1952, Serial No. 271,794
2 Claims. (Cl. 318—331)



1. In combination, a pair of alternating voltage supply conductors, a direct current motor having armature and field windings, means for supplying exciting current to said field winding comprising an uncontrolled rectifier having input terminals connected to said supply conductors and output terminals connected to said field winding, a source of direct reference voltage comprising positive and negative reference voltage buses, an electric glow valve having an anode connected to said positive bus and a cathode connected to said negative bus and having the characteristic of substantially constant voltage drop across said anode and cathode for all values of current within its operating range, means for supplying to the anode-cathode circuit of said valve a direct voltage derived from said alternating voltage supply conductors and proportional in magnitude to said alternating voltage, means for deriving a speed signal voltage from the armature voltage of said motor, a resistor included in the anode-cathode circuit of said valve for adding to said constant voltage drop of said reference voltage a component of direct voltage variable in magnitude with the voltage of said supply conductors to compensate for changes in the voltage of said supply conductors, and a rectifier controlled in response to the difference of said reference voltage and said speed signal voltage for supplying a direct voltage to said armature.

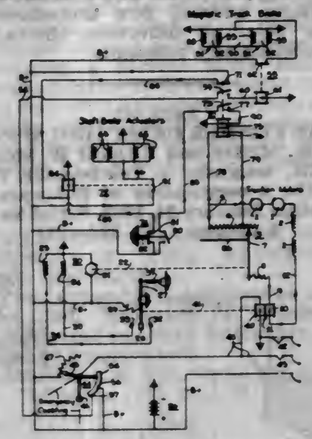
2,656,501

INTERLOCKED CONTROL APPARATUS FOR COMBINED DYNAMIC, TRACK, AND SHAFT BRAKE EQUIPMENT

George L. Cotter, Pittsburgh, Pa., assignor to Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application September 26, 1951, Serial No. 248,415
5 Claims. (Cl. 318—367)

1. Apparatus for controlling operation of track brakes, shaft brakes and dynamic brakes on a railway vehicle, comprising in combination, means to effect application of dynamic brakes, shaft brake control means operable upon normal fadeout of the dynamic brakes to apply the shaft brakes, track brake control means operable upon sudden loss of dynamic braking to apply the track brakes, first interlock means operable upon operation of the shaft brake control means to prevent operation of the track brake control means, and second interlock means operable upon operation of the track brake control means



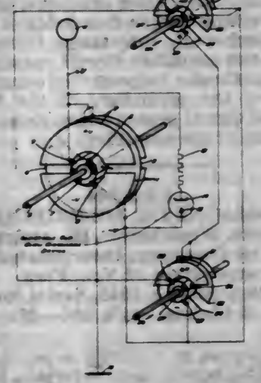
to prevent operation of the shaft brake control means.

2,656,502

ELECTROSTATIC MACHINE

Noël Felici, Grenoble, France, assignor to Centre National de la Recherche Scientifique, Paris, France, a corporation of France

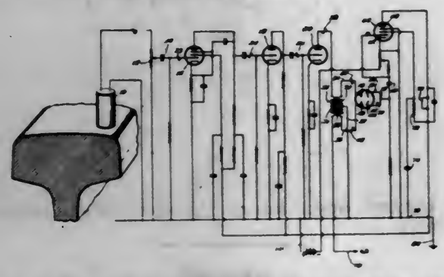
Application November 2, 1950, Serial No. 193,626
In France November 9, 1949
13 Claims. (Cl. 322—2)



1. Electrostatic generating apparatus comprising a conductive inductor member, a conductive carrier member, said inductor and carrier members being supported in insulated relation to each other and for relative movement therebetween into and out of inductive relation to each other, means connected to said inductor member for charging said inductor member at an excitation potential, means operatively connected to said carrier member and operable to establish connection of said carrier member to a terminal of said apparatus at a predetermined position of said carrier member in relation to said inductor member to deliver to said terminal a charge induced upon said carrier member by said inductor member in said relative movement of said members, and a leakage circuit connected between said inductor member and a terminal of said electrostatic generating apparatus, said leakage circuit including an effective resistance

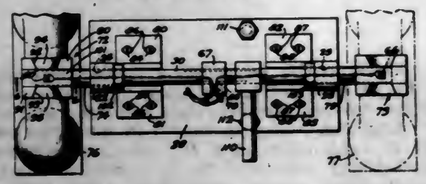
which varies with variation of the potential difference applied across said effective resistance to determine current flow therethrough such that the potential difference thereacross remains substantially constant.

2,656,503
RAIL CAR FISSURE DETECTING APPARATUS
Chester W. McKee and Richard W. McKee, Chicago, Ill., assignors to Teledetector, Inc., Chicago, Ill., a corporation of Delaware
Application January 24, 1949, Serial No. 72,384
4 Claims. (Cl. 324—37)



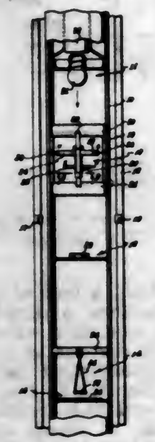
4. A rail fissure detector car supported on track wheels comprising means for energizing a rail, means for moving the car along the rail at a selected speed, a pickup coil wound on a vertical axis and having a length as measured along the rail of less than the length of an internal fissure flux field, a constant gain amplifier having its input connected solely to this pickup coil and having its stages set at the optimum point for handling the frequencies produced by the pickup coil in traversing fissure flux fields at the selected speed, a push-pull, interstage transformer positioned in the amplifier circuit, a twin diode tube having its cathodes respectively connected to the two leads of the secondary of the transformer, and a visual signal presentation means connected to the output of the amplifier.

2,656,504
ELECTROMAGNETIC MEASURING DEVICE
Paul F. Elarde, Westchester, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 11, 1945, Serial No. 604,456
2 Claims. (Cl. 324—42)



1. An apparatus for measuring magnetic fields of magnets, which comprises a hollow shaft, means mounting the shaft rotatably, a standard magnet mounted at one end of the shaft, means for mounting a magnet to be tested at the other end of the shaft, a search coil keyed to one end of the shaft in the field of the standard magnet, a second search coil keyed to the other end of the shaft in the field of a magnet supported by the mounting means, manually operable means for turning the shaft, means for limiting movement of the shaft to a predetermined angle, a fluxmeter for measuring total interlinkages, and flexible leads extending along the hollow shaft for connecting the coils in series-opposition to the fluxmeter.

2,656,505
DIRECTIONAL INDICATING INSTRUMENT
John C. Hewitt, Jr., Long Beach, Calif.
Application May 9, 1949, Serial No. 92,233
9 Claims. (Cl. 324—48)

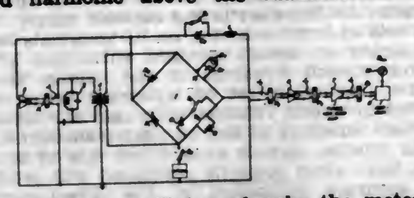


1. A directional indicating instrument for use in wells, comprising a housing, a pair of magnetic compass elements mounted for rotation about a common vertical axis in the housing and having north and south poles in such proximate relation that the elements are mutually attractive, said elements being of such magnetic strengths and so relatively positioned that when subjected to only the earth's magnetic field one of said elements maintains the other in a position substantially completely reversed from that of the one element and from the position which said other element would assume in the absence of said mutual attraction, said housing being adapted to be lowered in a well to bring said elements opposite a magnetic material, the elements being of such magnetic strengths and so relatively positioned as to then be attractable to said material in substantially corresponding polar relation in which the relative positions of the elements are reversed from their positions assumed when subjected only to the earth's magnetic field, and means for indicating the relative positions of said elements as between their positions when subjected only to the earth's field and their positions in said corresponding polar relation.

2,656,506
MEASURING CIRCUIT
John H. Bellman, Fanwood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 13, 1951, Serial No. 205,949
9 Claims. (Cl. 324—57)

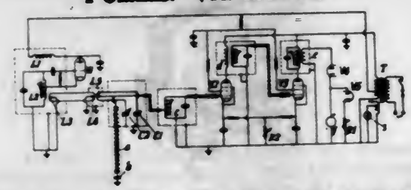
1. A measuring apparatus for measuring a harmonic level generated in a non-linear impedance comprising an oscillator having a feedback path and including a bridge circuit connected into said feedback path to stabilize the oscillation amplitude thereof, test terminals in said bridge for connecting the non-linear impedance to be measured, a pair of output terminals for said bridge, and a tuned meter circuit

connected to said output terminals, said meter circuit including a tuned circuit tuned to a selected harmonic above the fundamental fre-



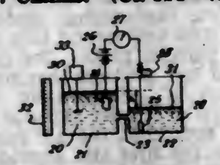
quency of said oscillator whereby the meter is responsive only to said selected harmonic whose level is to be measured.

2,656,507
PROXIMITY METER
John Ernest Fielden, Wythenshawe, Manchester, England, assignor to Fielden (Electronics) Limited, Manchester, England, a British company
Application May 8, 1950, Serial No. 160,639
In Great Britain May 11, 1949
4 Claims. (Cl. 324—61)



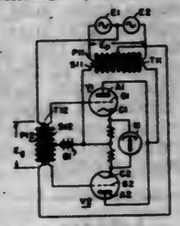
1. An electrical apparatus for indicating the distance between an object and a neighboring object, for gauging dimensions of articles, and so forth, comprising an oscillator supplying high frequency electrical oscillations, an amplifier, an electrical measuring instrument in the output circuit of the amplifier, a capacity-sensitive bridge circuit comprising inductances and capacities and coupling the oscillator with the amplifier, an electrode, the capacity of which depends on its distance from surrounding objects, and a double screen coaxial cable for connecting the electrode to the capacity-sensitive circuit, having an outer screen which is earthed, an inner screen connected to the junction between two inductive bridge arms, and a central conductor connecting the electrode to the junction between an inductive and a capacitative bridge arm, the other end of the capacitative arm being earthed, so that variations in its capacity modify the voltages applied to the amplifier, and the readings of the measuring instrument.

2,656,508
MEANS FOR COUNTING PARTICLES SUSPENDED IN A FLUID
Wallace H. Coulter, Chicago, Ill.
Application August 27, 1949, Serial No. 112,819
17 Claims. (Cl. 324—71)



1. Apparatus for studying the physical properties of particles suspended in a fluid medium of different conductivity than said particles which comprises, means for holding a quantity of said fluid medium having the particles suspended therein, means associated with said last mentioned means establishing a stable constricted electrical current path in said suspension, means producing a current along said path, means causing relative motion between the suspension and the constricted path whereby at least single particles passing within the influence of the path will modulate the current, and detecting means actuated by said modulated current.

2,656,509
APPARATUS FOR MEASURING THE VECTOR DIFFERENCE OF TWO ALTERNATING CURRENT VOLTAGES
Milton P. Vore, Catonsville, and Maurice J. Gelpi, Baltimore, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 4, 1950, Serial No. 147,636
4 Claims. (Cl. 324—98)

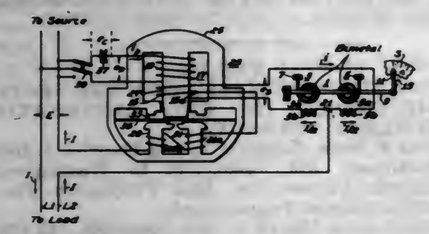


1. In apparatus responsive to a difference in magnitude between two alternating current voltages of the same frequency, the combination of, a pair of similar electric discharge devices each having an anode, a cathode and at least one control grid, an electrical bridge circuit, a transformer having a tapped primary winding and a secondary winding, the tapped portions of said primary winding forming adjacent legs of said bridge circuit, one of the remaining adjacent legs of said bridge circuit being adapted to have applied therein one of alternating current voltage and the remaining adjacent leg of said bridge circuit being adapted to have applied therein the other alternating current voltage in a sense vectorally adding to the first alternating current voltage, circuit means connecting the anodes and the cathodes of said electric discharge devices in parallel with said secondary winding, a second transformer having a primary winding and a secondary winding, said primary winding of said second transformer being connected between a tap on the primary winding of the first transformer and a point between the adjacent legs of said bridge circuit to which said alternating current voltages are applicable, said secondary winding being connected between the control grids of said discharge devices, electrical means connected to a tap of the secondary winding of the second transformer for applying a unidirectional voltage thereto for biasing the control grids, and circuit means responsive to the electrical output of said discharge devices.

2,656,510
ELECTRICAL MEASURING DEVICE
Ambrose J. Petzinger, Fair Lawn, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 20, 1947, Serial No. 775,274
7 Claims. (Cl. 324—104)

1. In a thermal device responsive to reactive volt amperes of an alternating electrical circuit,

a pair of thermoresponsive units each having an electrical heater, a transformer having a primary winding and a secondary winding, means connecting the electrical heaters in series across the secondary winding for energization in series through the transformer, means connecting the electrical heaters to conductors for energization in parallel through said conductors, translating means differentially responsive to the outputs of



the thermoresponsive units, said heaters having electrical resistances smaller than the values giving optimum efficiency in the upper portion of the range of energization of the thermoresponsive units and said heaters having resistances proportioned to produce a displacement of substantially 45° in phase between the voltage across the primary winding and the current flowing through the primary winding.

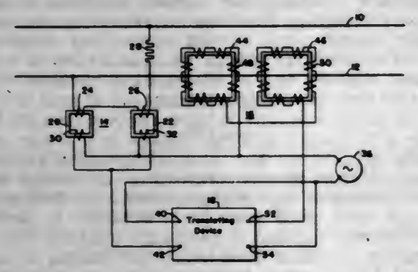
2,656,511

POWER MEASURING DEVICE

Theodore R. Specht, Greenville, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 7, 1951, Serial No. 255,251

5 Claims. (Cl. 324—117)



1. In a direct-current power measuring device for measuring the power flowing through two line conductors, the combination comprising, a voltage transductor comprising two magnetic core members, at least one direct-current control winding disposed in inductive relation with each core member, the direct-current control windings being connected in series circuit relation across the two line conductors so as to be responsive to the voltage thereacross, and at least one alternating-current winding disposed in inductive relation with each core member and responsive to an alternating-current supply, the alternating-current windings being connected in parallel circuit relation, a current transductor comprising, two other magnetic core members which are disposed in inductive relation with one of the line conductors so that their magnetic saturation varies in accordance with the direct-current flow through said one of the line conductors, a plurality of other alternating-current windings disposed in inductive relation with each of said two other magnetic core members, said other alternating-current windings being connected in series circuit relation and responsive to the alternating-current supply, and two sets of terminals, one set of terminals being connected in circuit relation with said alternating-current windings of the voltage transductor, the other set of terminals being connected in circuit relation with said alternating-current windings of the current transductor, so as to produce signals at said two sets of terminals that when properly combined will produce an accurate indication of the direct-current power flowing through the two line conductors.

2,656,512

WATTHOUR METER HAVING PREFORMED CURRENT WINDINGS

Bernard E. Lenehan, Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application February 3, 1950, Serial No. 142,179

12 Claims. (Cl. 324—137)



4. An electrical measuring device having a soft magnetic structure, the magnetic structure including a voltage pole piece having a pole face, and first and second spaced parallel current pole pieces having pole faces spaced from the pole face of the voltage pole piece, each of the current pole pieces being provided with a ledge, said pole pieces each having a base portion and a wall portion, said ledge base portions being disposed to project toward one another to define an air gap in the magnetic structure having a first length dimension extending from said ledge base portions to said voltage pole piece face, having a second length dimension extending from said current pole piece faces to said voltage pole piece face, and having a width dimension extending from one of said ledge wall portions to the other of said ledge wall portions, and a magnetic shunt disposed between the pair of current pole pieces to be supported by said pole piece ledges, in combination with a preformed figure-of-eight winding for the pair of current pole pieces constructed of edge-wound self-supporting electroconductive strip, the strip being deformed to provide a pair of side bar portions, a pair of overlapping central bar portions, and a plurality of linking bar portions, the linking bar portions being disposed to join the side bar portions and the overlapping central bar portions to define first and second loop members lying in spaced parallel planes, the pair of overlapping central bar portions having an overall thickness which is greater than said second length dimension of the air gap whereby the insertion of the strip into the air gap in the direction wherein the first and second loop members tend to enter the air gap simultaneously is prevented, portions of the strip other than the overlapping central bar portions having a width which is less than said width dimension of the air gap and having a thickness which is less than said second length dimension of the air gap for permitting insertion of the strip into the air gap prior to the mounting of the magnetic shunt between the current pole pieces in the direction wherein only the first loop member tends to enter the air gap to encircle the first current pole piece to thereby allow the application of the preformed winding to the current pole pieces prior to the mounting of the magnetic shunt between the current pole pieces.

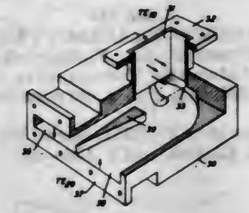
2,656,513

WAVE GUIDE TRANSDUCER

Archie P. King, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 29, 1949, Serial No. 135,759

5 Claims. (Cl. 333—21)



1. An electric wave transducer for converting dominant mode wave power into two portions of oppositely polarized dominant mode wave power, said transducer comprising an enclosure of electrically conducting material forming a semi-cylindrical cavity having top and bottom walls, a diametrical plane, and an arcuate wall, a pair of contiguous rectangular wave guides opening into said cavity on said diametrical plane, and a third wave guide opening into said cavity on said top wall.

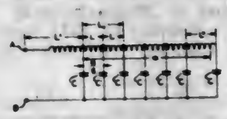
2,656,514

PULSE PRODUCING SYSTEM NETWORK

Joseph R. Perkins, Jr., Upper Montclair, N. J., and Stanley R. Ames, Rockland, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

Application September 14, 1945, Serial No. 616,404

2 Claims. (Cl. 333—23)



2. A two terminal network for simulating the reactive characteristics of a uniform transmission line comprising, a single layer continuous solenoid inductance coil, a bank of equal value capacitors, means for connecting one of said network terminals through said bank of capacitors to substantially evenly spaced points along said coil and one end thereof, means connecting the second terminal of said network to the open end of said coil, said solenoid coil being so wound upon a form of uniform diameter that the self-inductance of each terminal section of the network so formed has a value between 1.1 and 1.5 of the self-inductance of the remaining sections of equal value.

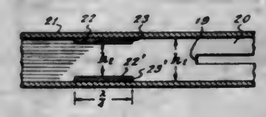
2,656,515

WAVE GUIDE IMPEDANCE TRANSFORMER

William W. Hansen, deceased, late of Palo Alto, Calif., by Olive D. Ross, executrix, Palo Alto, Calif., and Montgomery H. Johnson, Alexandria, Va., assignors to The Sperry Corporation, a corporation of Delaware

Application May 5, 1945, Serial No. 592,092, now Patent No. 2,531,437, dated November 28, 1950, which is a division of application Serial No. 437,004, March 31, 1942, now Patent No. 2,433,368, dated December 30, 1947. Divided and this application April 6, 1950, Serial No. 154,214

14 Claims. (Cl. 333—33)



14. Microwave transmission apparatus for matching a load impedance to a rectangular wave guide excited by electromagnetic waves of a predetermined frequency and wavelength, said apparatus comprising at least three tandem sections of said rectangular wave guide for transmission of the energy from the source to the load, the first section having major and minor cross-sectional dimensions substantially equal to the respective major and minor cross-sectional dimensions of the third section, and the intermediate section being of an electrical length approximately an odd multiple including one of a quarter wavelength of the exciting energy, the junction of said intermediate section and said third section being situated at a position of the maximum amplitude of one of the two electrical quantities including voltage and current along the wave guide, and the minor cross-sectional dimension of said intermediate section being related to the minor cross-sectional dimension of said third section in the ratio of the amplitude of the voltage at said junction to the amplitude of the voltage in said third section at a distance from said junction of one quarter wave guide wavelength therein.

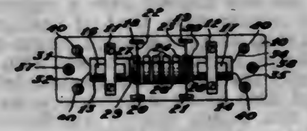
2,656,516

FILTER USING TRANSVERSE SUPPORTING MEANS

Melvin L. Doelz, Glendale, Calif., assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application August 14, 1952, Serial No. 304,293

4 Claims. (Cl. 333—71)



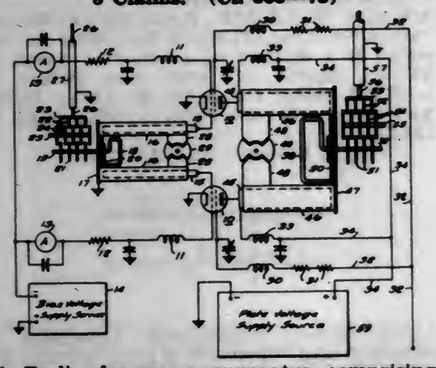
2. An electromechanical filter comprising, a base member, four upright members mounted on said base member, a pair of transverse rods extending respectively between pairs of said upright members, a disc assembly comprising a plurality of discs connected together by coupling wires, the end discs of said disc assembly attached to said transverse rods, a magnetostrictive input means coupled to one of said input discs, and a magnetostrictive output means coupled to the other end disc.

2,656,517

RADIO FREQUENCY COUPLING APPARATUS

John L. Johnson, Catonsville, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 17, 1948, Serial No. 44,611
8 Claims. (Cl. 333—73)



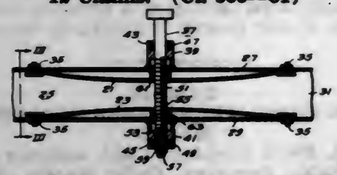
1. Radio frequency apparatus comprising a first pair of conductors, a second pair of conductors, a loop rotatable between the conductors of said first pair of conductors, said loop being rotatable about an axis which extends in a direction substantially parallel to the general direction of said first pair of conductors, and means including a capacitor plate connected to said loop and rotatable therewith, and a second capacitor plate connected to one of the conductors of the second pair of conductors for capacity coupling said loop thereto.

2,656,518

WAVE GUIDE ATTENUATOR

William E. Good, Forest Hills, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 15, 1946, Serial No. 641,309
12 Claims. (Cl. 333—81)



1. In a high frequency system, a hollow tubular guide for an electromagnetic wave, said guide having a conductive inner surface, and an elongated strip having a conductive surface layer on at least one side thereof with a resistance substantially greater than that of said guide surface, said strip being positioned within said guide and extending lengthwise thereof with said side substantially parallel to the electric field of said wave, said strip being secured to a wall of said guide at two points spaced lengthwise of said strip with a portion of the strip intermediate said two points being spaced from said wall.

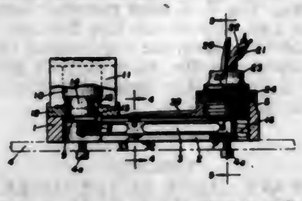
2,656,519

ANGULAR ACCELEROMETER

Thomas Wellborn Sheppard, Sandy Spring, Md., assignor to the United States of America as represented by the Secretary of the Navy

Application August 31, 1950, Serial No. 182,447
8 Claims. (Cl. 336—30)

1. In an angular accelerometer, a frame, a lever, a tubular shaft transverse to the lever and secured to said lever, anti-friction bearings mounted in the frame and supporting the ends of said shaft for free rotation, means housed within said shaft and secured to the lever at an intermediate point and having its ends secured



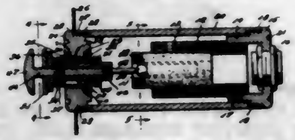
to the frame, to generate torsional resistance upon pivotal motion of the lever, inductance varying means carried by one end of the lever, and motion damping means carried by the other end thereof.

2,656,520

MOTION TRANSMITTER

Charles E. Roessler, Jr., Philadelphia, Pa., assignor to Automatic Temperature Control Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania

Application May 31, 1951, Serial No. 229,171
3 Claims. (Cl. 336—65)



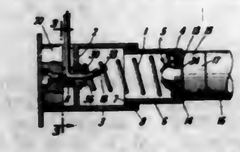
3. In motion transmitters, a housing formed of a first and a second end fitting and a ferrous tube connected tightly together, a two-part movable element transformer, means for mounting one part of the transformer on one end fitting internally of said ferrous tube, a slidable element mounted in the other end fitting, means mounting the other part of said transformer on the slidable element for inductive relation to the said one part, means biasing the slidable element in one direction, and means for limiting the movement of the slidable element in both directions.

2,656,521

FLUORESCENT LAMP HOLDER

Wade E. Barre, Jr., Warren, Pa., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts

Application September 27, 1951, Serial No. 248,567
2 Claims. (Cl. 339—55)



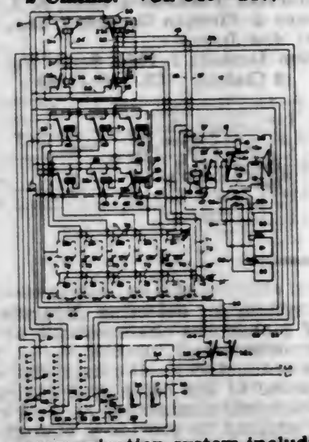
1. A lampholder comprising a hollow insulating support member, a hollow plunger slidable therein and having a front face with an opening for receiving a lamp contact pin, a spring biasing said support member and said plunger away from each other, a contact piece held firmly against the inner surface of the front face of said plunger by said spring and having at least one spring contact finger in position to meet said lamp contact pin, the spring of said contact finger being of lesser stiffness than said first-mentioned spring in order to exert a smaller force on said lamp than that exerted against the contact piece by the first-mentioned spring.

2,656,522

STATION SELECTOR AND RECORDING SYSTEM FOR RADIO SERVICE

Louis E. Philipps, Cleveland Heights, Ohio, assignor to Radio Systems, Incorporated, Cleveland, Ohio, a corporation of Ohio

Application June 3, 1949, Serial No. 97,058
2 Claims. (Cl. 340—147)



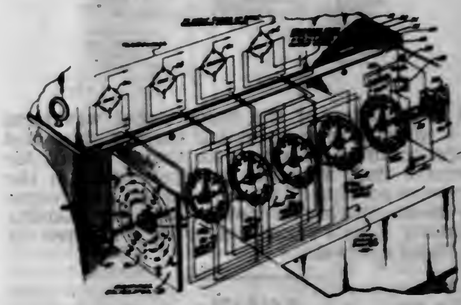
1. In a communication system including a plurality of stations, each station being assigned combined first and second designating indicia, each station having a device to be energized, an "on" relay for each station operatively connected with its associated device to energize it responsive to instantaneous energization of said relay, an "off" relay for each station operatively connected with its associated device to de-energize it responsive to instantaneous energization of said relay, a modified adding machine for establishing selected electrical circuits, said machine including a small housing adapted to rest upon a desk, rows of buttons movably supported in said housing, said buttons in a first row carrying said first indicia and in a second row carrying said second indicia, and in a third row carrying device "on" and "off" indicia, a rack bar operatively connected with each of said rows, each said bar reciprocatingly mounted in said housing, operating means for reciprocating each bar including connections between each button and its associated bar for causing movement of the associated bar from an inoperative position to an operative position responsive to depression of its associated button, plural stop means associated with each rack bar for stopping it at selected predetermined points corresponding to the indicia button operated, normally open switch means for each row at each of said predetermined points and positioned in said housing for engagement by the associated bar, said bar closing said switch means only at the predetermined point where said bar is stopped by said stop means, electrical circuit means operatively connected with said "on" relay at each station and including switches closed by said rack bars of said first and second rows and including a switch closed by said rack bar of said third row responsive to its associated "on" indicia button, electrical circuit means operatively connected with said "off" relay at each station and including switches closed by said rack bars of said first and second rows and including a switch closed by said rack bar of said third row responsive to its associated "off" indicia button, and means for clearing said modified adding machine including a first operating connection causing electrical energization of said electrical circuit means and a second operating connection causing return of said bars to inoperative position.

2,656,523

TELEMETERING SYSTEM

Waldo G. Hodson, Burbank, and Walter E. Peterson, Los Angeles, Calif., assignors to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California

Application January 11, 1951, Serial No. 205,512
18 Claims. (Cl. 340—183)



2. In a radio telemetering system for transmitting data from a vehicle to a remote receiving station, the combination of means producing a single transmitted carrier wave from said vehicle, a plurality of subcarrier channels each having a different operating frequency and connected to feed a portion of said data into said carrier producing means for separable modulation thereof, an information transducer in each of said subcarrier channels connected to produce an electrical signal representative of a certain variable condition making up said portion of data, and channel identifying and calibrating means comprising a plurality of different valued electrical components each adapted to be momentarily shunted across any of said transducers to produce a predetermined variation of output of said transducers in the form of a pulse, and switching means connected to progressively shunt each of said electrical components across each of said transducers in a predetermined order, when actuated, so as to produce a cycle of pulses in the output of each of said subcarrier channels, which cycle is peculiar to a designated one, only, of said transducers for channel identification, the values of said electrical components being each designed to give a respective pulse characteristic corresponding to a known value of the desired data to be transmitted from said transducers, whereby the transmitted data arriving at said receiving station when said switching means is non-actuated can be accurately calibrated throughout the entire range of operation.

2,656,524

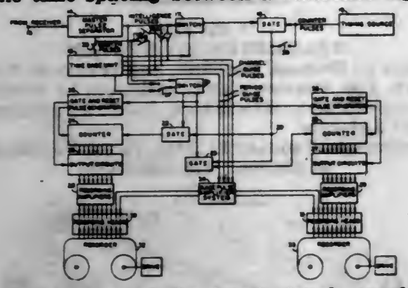
DATA STORAGE AND REPRODUCING APPARATUS

Darrin H. Gridley and Anthony J. Stecca, Washington, D. C.

Application August 9, 1949, Serial No. 109,385
17 Claims. (Cl. 340—206)
(Granted under Title 35, U. S. Code (1952), sec. 266)

7. Apparatus for handling multiplex information relative to a plurality of variable quantities in which the information is contained as time

positional variation of successive portions of input signal waveforms comprising, means producing a series of reference signals in response to selected portions of the input signal waveform, generator means producing a variable number of timing signals for each quantity in dependency on the time spacing between a reference signal



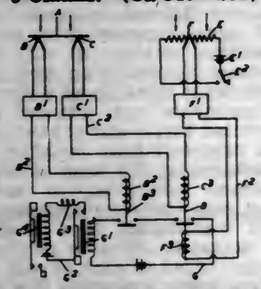
and the portion of the input signal waveform for a quantity corresponding thereto, first and second counters responsive to timing signals for alternate time intervals in dependency on the successive portions of the input signal waveforms, and means storing in binary form the quantity of timing signals registered by each counter for each time interval.

2,656,525

APPARATUS FOR DETECTING THE OCCURRENCE OR APPROACH OF ICING CONDITIONS

John Kinsella, Luton, England, assignor to D. Napier & Son Limited, London, England, a British company

Application January 20, 1950, Serial No. 139,770
In Great Britain January 19, 1949
9 Claims. (Cl. 340—234)



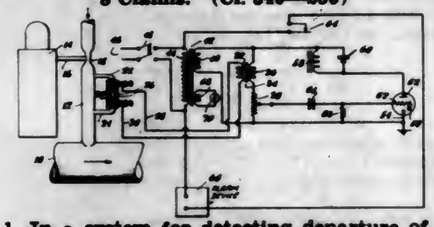
1. Apparatus for detecting and bringing apparatus into operation upon the approach or occurrence of icing conditions constituted by free liquid water droplets in the atmosphere at or near freezing point, including in combination an unheated temperature-responsive element arranged to be subject to atmospheric temperature, a relay device arranged to be controlled by the unheated temperature-responsive element so as to remain in an inoperative condition at atmospheric temperatures substantially above freezing point but to be rendered operative at atmospheric temperatures approaching or reaching freezing point, a heated temperature responsive element having a surface arranged so that the atmospheric air will impinge upon it, means for supplying heat continuously to the heated element, a device responsive to the temperature of the heated element, discriminating relay apparatus operatively connected to the device responsive to the temperature of the heated element and adapted to become operative on the occurrence of a predetermined temperature drop of the heated element below any temperature drop due solely to the temperature of the atmospheric air, and a warning or other device or apparatus arranged to be brought into operation only when the relay device controlled by the unheated temperature responsive element and the discriminating relay apparatus are both rendered operative.

2,656,526

CHLORINE CONCENTRATION SENSITIVE APPARATUS

John R. MacKay, Packanack Lake, N. J., assignor to Wallace & Tiernan Company, Inc., a corporation of New Jersey

Application January 7, 1950, Serial No. 137,324
8 Claims. (Cl. 340—236)



1. In a system for detecting departure of the content of a chemical characteristic of a liquid from a predetermined limiting value, in combination, a conductivity cell comprising electrode means exposed to the liquid and having terminals for electrical connection to said cell, said cell being adapted to provide a change in conductivity between its terminals upon departure of said chemical characteristic of the liquid from said value, a transformer having a secondary in series with said terminals and a primary connected to a source of current so that current is supplied to the cell from said secondary, the primary and secondary of the transformer being electrically coupled so that a change in current flow in the secondary resulting from a change in conductivity in the cell is reflected in a change in current flow in the primary, an electronic tube having a control electrode, and circuit means connected for control by said primary and extending to said control electrode for controlling said tube in response to a predetermined change of current flow through said primary, said electronic tube having an anode and an associated anode circuit, said tube being adapted to provide current flow in said anode circuit only when there is at least a predetermined voltage on the control electrode, said first-mentioned circuit means comprising an impedance connected in series with the aforesaid transformer primary across said source of current, said primary and said impedance constituting a voltage divider and said impedance being connected to said control electrode to impress said predetermined voltage thereon only when the conductivity of the liquid exceeds a predetermined value, and alarm means controlled by said anode circuit and biased to operate unless current is flowing in said anode circuit.

2,656,527

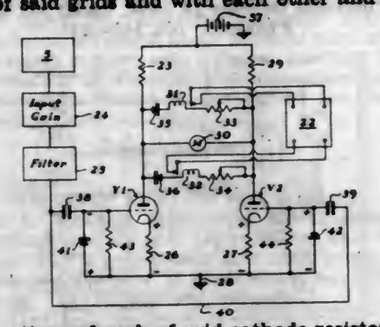
SIGNAL DEVIATION WARNING SYSTEM

John E. Tillman, Albuquerque, N. Mex., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application July 24, 1950, Serial No. 175,529
6 Claims. (Cl. 340—253)

4. A discriminator circuit comprising the combination of means forming a bridge circuit with

a pair of electrically adjacent legs each including a thermionic tube with grid, plate and cathode and a resistor in series with the cathode, a signal input lead operatively connected with the grids of each of said tubes for coupling a signal input to said grids, condensers connected in series with each of said grids and with said signal input lead for coupling an input signal from the input lead to said grid and to rectifiers, rectifiers of opposite directional characteristics connected with each of said grids and with each other and with



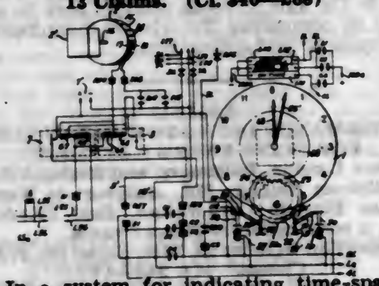
end portions of each of said cathode resistors remote from said cathodes, separate conductors and resistors connecting each of said tube plates with a power supply, a galvanometer type meter connected between said separate conductors intermediate said resistors and the plates of said tubes, a plurality of relays having windings connected between said separate conductors and in parallel with said meter, and rectifiers of opposite polarity connected in series with said relay windings to operate one relay on increase in signal and another relay on decrease in signal.

2,656,528

SYSTEM FOR INDICATING TIME-SPACE LAG AND LEAD

Henry C. Savino, Jersey City, N. J.

Application May 21, 1948, Serial No. 28,374
13 Claims. (Cl. 340—268)



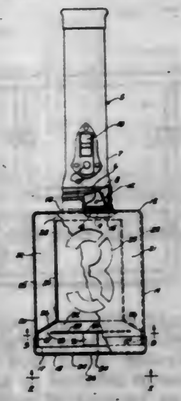
1. In a system for indicating time-space lag and lead, in combination, with a device emitting a series of uniform electrical impulses, an elongated tape having perforations formed therein and disposed along the length of the tape in accordance with a distance-time schedule and in conformity with the rate of said series of impulses, means moving said tape in accordance with the movement of a body, a conductor located on one side of said tape, and brushes located on the other side of said tape and adapted to be short-circuited by said conductor when one of said perforations is moved between said conductor and said brushes, whereby the brushes provide another series of electrical impulses, and means connecting said device with the brushes to provide impulses consisting of the difference between the two series of impulses.

2,656,529

HAND SIGNAL LIGHT

Hubert N. Burgess, Rockford, Ill.

Application July 25, 1952, Serial No. 300,949
6 Claims. (Cl. 340—321)



1. In a portable hand signal light, a housing of elongated form having side walls uniformly spaced from a longitudinal axis, said housing also having opposed end walls, the side walls having openings provided therein defining signal legends adapted to be illuminated on their inner side, a light source such as a flash-light on one end wall of said housing arranged to project light into said housing substantially along the longitudinal axis, said flash-light providing an elongated handle projecting from the said end wall on said longitudinal axis, the other end wall of said housing remote from the light source having openings provided therein defining another signal legend adapted to be illuminated from inside said housing, a tube mounted in said housing on the longitudinal axis and adapted to conduct the major portion of the light from said flash-light to the other end of said housing said tube being spaced at its ends from the end walls and being also spaced from the side walls so as to allow only indirect lighting of the signal legend openings in said side walls, and a plate mounted in said housing transversely relative to the outer end of said tube in spaced parallel relation between the outer end of said tube and the adjacent end wall so as to provide indirect lighting of the signal legend openings in said end wall and to reflect light toward the legend openings in said side walls.

2,656,530

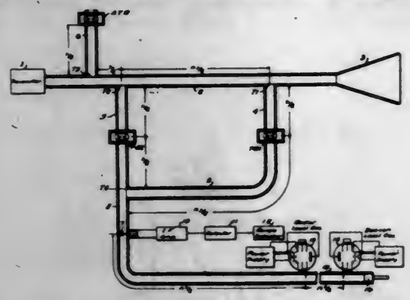
BEACON RADAR SYSTEM

Eugene F. Grant, Arlington, Mass., and Leon Katz, Sutherland, Saskatchewan, Canada, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 11, 1948, Serial No. 32,354
8 Claims. (Cl. 343—6)
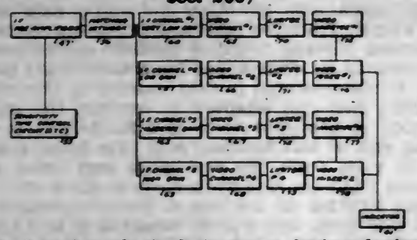
1. In combination, a radar transmitter, a radar receiver, a single antenna coupled with said radar transmitter and with said radar receiver for transmitting at any instant signals of substantially a single frequency provided by said radar transmitter and for receiving about said instant signals from remote objects, said received signals being of a first frequency derived by reflection from remote objects of said transmitter frequency and of a second frequency emitted from a remote object in response to said transmitter frequency, and an energy transmis-

sion channel for coupling said antenna and said radar transmitter, and a pair of received energy transmission channels extending from said first mentioned energy transmission channel to said radar receiver, said channels being selectively



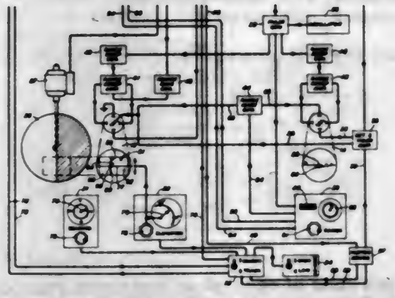
responsive to said first and second frequencies, said pair of received energy transmission channels being separated along said first mentioned energy transmission channel by an integral number of half wave lengths of oscillations of said first frequency.

2,656,531
DEVICE TO PERMIT RADAR CONTOUR MAPPING OF RAIN INTENSITY IN RAINSTORMS
David Atlas, Newton Center, Mass.
Application September 12, 1950, Serial No. 184,507
2 Claims. (Cl. 343—11)
(Granted under Title 35, U. S. Code (1952), sec. 266)



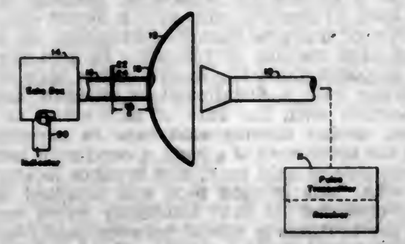
1. A meteorological storm analyzing device indicating rain intensity gradients with modified radar equipment, comprising a radar having an antenna directable toward the storm, a transmit-receive box, a transmitter and a receiver of said radar inclusive of an indicator and a matching network, a plurality of channels of distinct and different overall amplification to separate distinct pulses returned from each intensity of rainfall illustratively based on very low gain for heaviest rainfall, low gain for next heaviest rainfall, moderate gain for lighter rainfall, and high gain for lightest rainfall, a limiter in each of said channels and producing a square wave output, a first inverter following the limiter in the very low gain channel for inverting the square wave limiter output therein, a first mixer following the limiter in the low gain channel for mixing the square wave limiter output therein with the output from the very low gain channel inverter to provide a first mixed output to said indicator, a second inverter following the limiter in the moderate gain channel for inverting the square wave limiter output therein, and a second mixer following the limiter in the high gain channel for mixing the square wave limiter output therein with the output from the moderate gain channel inverter to provide a second mixed output to said indicator for substantially optically simultaneous presentation with said first mixed output in indicating rain intensity gradients.

2,656,532
RADAR SYSTEM
Elmo E. Crump, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 23, 1946, Serial No. 705,024
9 Claims. (Cl. 343—11)



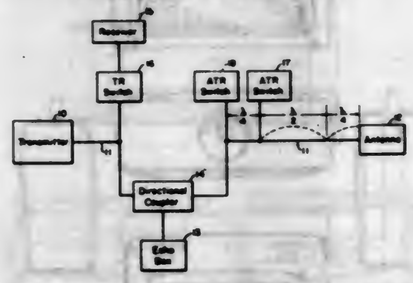
1. In a radar system, an antenna having a narrow angle directive beam of approximately circular cross-section adapted to rotate about an axis eccentric to the beam axis and lying within the beam cross-section, an oscilloscope provided with a screen and with means for translating electrical echoes received from targets by way of said directive beam into intensity signal indications on said screen, switching means for positioning the like signal indications resulting from target echoes received during corresponding half-rotations of said beam beside and parallel to the signal indications resulting from echoes received from the same target during opposite corresponding half-rotations of said beam to produce closely contiguous paired indications for each target, and means cooperating with the above recited elements whereby the position of a target with respect to the axis of beam rotation may be ascertained by comparing the relative magnitude and brightness of said indications.

2,656,533
PERFORMANCE INDICATOR ARRANGEMENT FOR WAVE ENERGY SYSTEMS
Coleman London, Baltimore, and Richard H. Foy, Linthicum Heights, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 28, 1948, Serial No. 57,018
7 Claims. (Cl. 343—17.7)



1. A wave energy system comprising a pulse transmitter, a wave antenna system including an energy reflector having an aperture therein, said reflector being the scanning reflector of said wave energy system, means for feeding energy from said transmitter to said antenna, said means comprising a wave guide for receiving wave energy from the output of the pulse transmitter, said wave guide lying on one side of and so as to be appropriately directed at said reflector, and means for checking the performance of said transmitter and antenna feed system, said last-mentioned means comprising performance indicator means, and conduit means communicating said performance indicator means with said reflector aperture, said performance indicator means being arranged as an integral part of said wave energy system, said reflector aperture being so located as to allow said performance indicator means to receive a portion of the energy emanating from said wave guide.

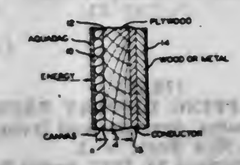
2,656,534
TUNE-UP SYSTEM FOR RADAR
Hagan L. Jackson, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 14, 1950, Serial No. 138,554
10 Claims. (Cl. 343—17.7)



1. In a radar system including a pulse transmitter, the combination of an antenna; a transmission line between said transmitter and antenna; a receiver connected to said line; and apparatus for storing high frequency energy in the form of oscillations when said transmitter is operating and of emitting said energy in the form of oscillations after said transmitter ceases to transmit, connected to said line between said receiver and antenna; and means connected in said line between said apparatus and said antenna for forming a relatively low impedance across said line during receiving cycles, and forming a relatively high impedance across said line during transmitting cycles.

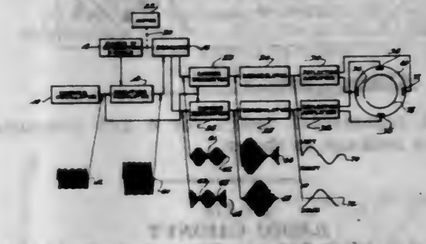
2,656,535
NONREFLECTING BACKGROUND FOR TESTING MICROWAVE EQUIPMENT
Leland K. Neher, Newton Corner, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application August 6, 1945, Serial No. 609,244
4 Claims. (Cl. 343—18)

2. A non-reflecting background device for radiated energy absorption over a wide frequency range comprising a pyramidally shaped horn, an energy reflecting layer disposed on the inner surface of said horn, a partially absorbing layer disposed over said reflecting layer, and a layer of



spacing material disposed between said partially absorbing layer and said reflecting surface and having a thickness substantially equal to an odd one-quarter of the average wave length of the radiated energy.

2,656,536
OSCILLOGRAPHIC PLOTTING SYSTEM
Robert W. Lockhart, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application April 17, 1951, Serial No. 221,429
14 Claims. (Cl. 343—118)

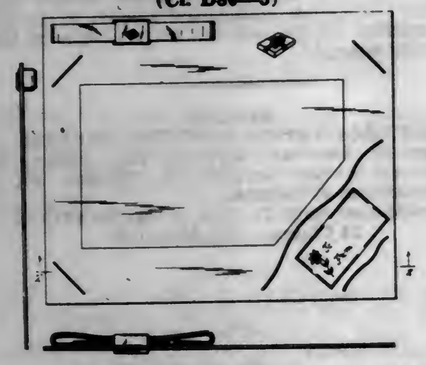


2. An oscillographic direction finding apparatus, comprising a radio receiver having a rotatable loop antenna, driving means for rotating the antenna, a source of a carrier wave, a modulator to combine the carrier wave and the output of the receiver to provide a high frequency wave modulated in accordance with the receiver output, a resolver including first and second relatively rotatable means, one of the means being rotatively connected with the driving means and the other having a stationary mounting, a primary coil on the first means connected to the output of the modulator, first and second secondary coils carried at right angles on the second means, the primary and the secondaries being inductively coupled, first and second carrier reinserters to mix carrier components from the carrier source with the outputs of the first and second secondaries to produce outputs which are amplitude modulated in quadrature in accordance with the rotational position of the loop, first and second demodulators receiving the outputs of the carrier reinserters and providing demodulated outputs, and an oscillograph having horizontal deflecting means connected to the output of the first demodulator and vertical deflecting means connected to the output of the second demodulator.

DESIGNS

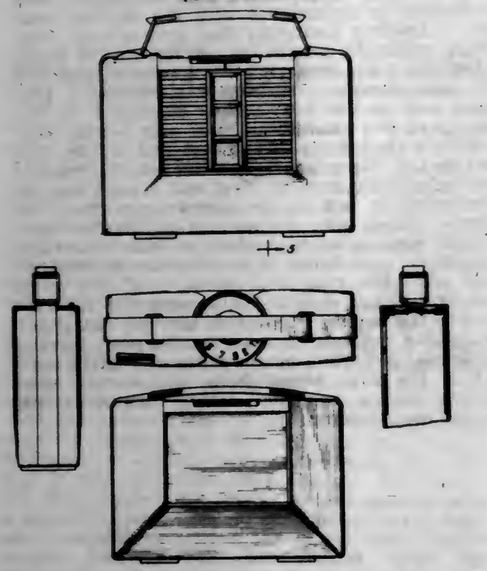
OCTOBER 20, 1953

170,617
GIFT WRAPPING DISPLAY PACKAGE
Howard Abrahams, Arverne, and Irving Ruina, New York, N. Y.
Application February 24, 1953, Serial No. 23,771
Term of patent 14 years
(Cl. D80—5)



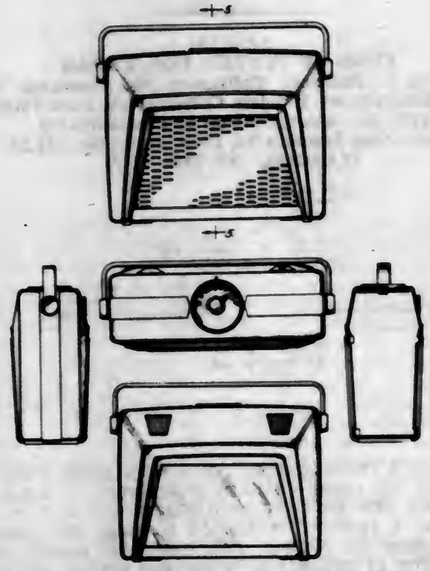
The ornamental design for a gift wrapping display package, as shown.

170,618
RADIO CABINET
Samuel E. Adler, Chicago, Ill., assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application April 22, 1953, Serial No. 24,632
Term of patent 14 years
(Cl. D56—4)



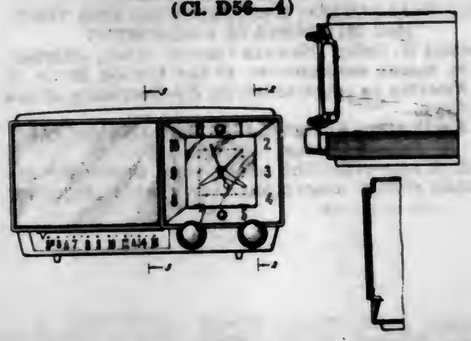
The ornamental design for a radio cabinet, as shown and described.

170,619
RADIO CABINET
Samuel E. Adler, Chicago, Ill., assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application May 1, 1953, Serial No. 24,783
Term of patent 14 years
(Cl. D56—4)



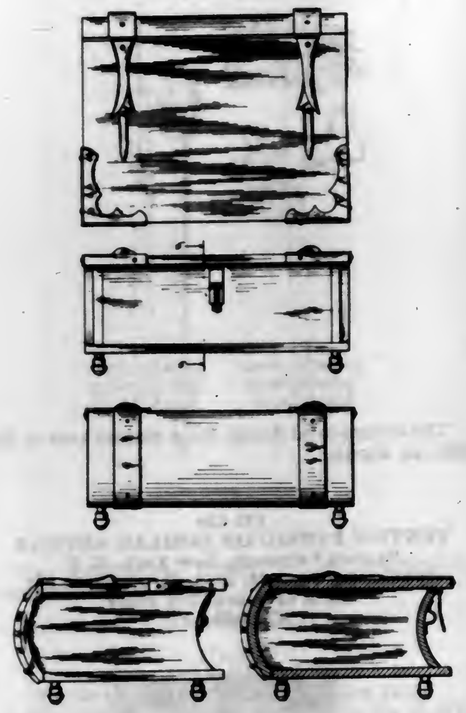
The ornamental design for a radio cabinet, as shown and described.

170,620
COMBINATION CLOCK AND RADIO CABINET
Samuel E. Adler, Chicago, Ill., assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application June 4, 1953, Serial No. 25,313
Term of patent 14 years
(Cl. D56—4)



The ornamental design for a combination clock and radio cabinet, as shown and described.

170,621
CEDAR CHEST OR THE LIKE
Henry M. Barringer, Greensboro, N. C.
Application April 24, 1953, Serial No. 24,669
Term of patent 7 years
(Cl. D32—19)



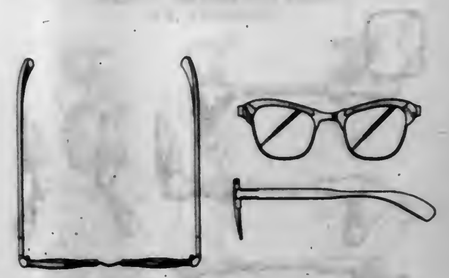
The ornamental design for a cedar chest or the like, substantially as shown.

170,622
SPECTACLE FRAME OR THE LIKE
Ralph J. T. Bauer, New York, N. Y., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application May 8, 1953, Serial No. 24,915
Term of patent 14 years
(Cl. D57—1)



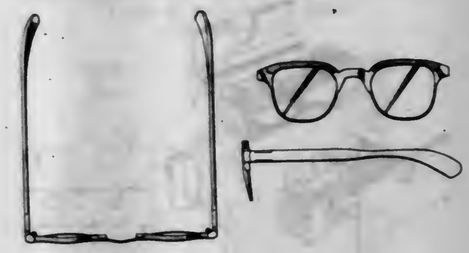
The ornamental design for a spectacle frame or the like, substantially as shown and described.

170,623
PAIR OF SPECTACLES
Austin B. Belgard, Evanston, Ill.
Application April 17, 1953, Serial No. 24,563
Term of patent 14 years
(Cl. D57—1)



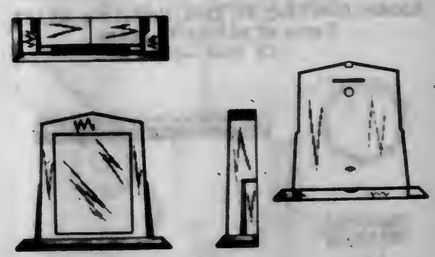
The ornamental design for a pair of spectacles, as shown.

170,624
PAIR OF SPECTACLES
Austin B. Belgard, Evanston, Ill.
Application April 17, 1953, Serial No. 24,564
Term of patent 14 years
(Cl. D57—1)



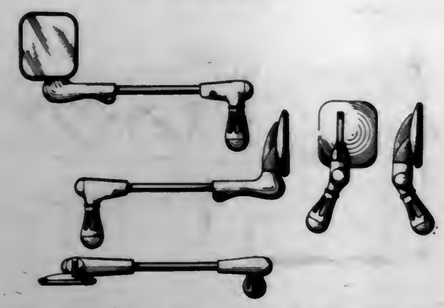
The ornamental design for a pair of spectacles, as shown.

170,625
COIN BANK
Carl G. Bergman, Highland Park, Mich.
Application July 2, 1952, Serial No. 20,451
Term of patent 7 years
(Cl. D34—11)



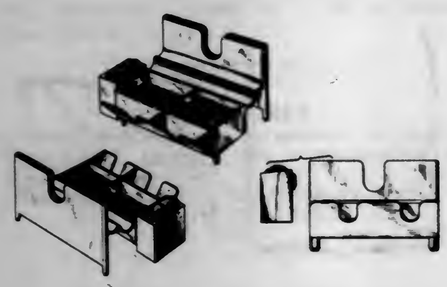
The ornamental design for a coin bank, as shown and described.

170,626
REARVIEW MIRROR
Theodore E. Brown, Chicago, Ill.
Application June 2, 1952, Serial No. 20,001
Term of patent 14 years
(Cl. D14—6)



The ornamental design for a rearview mirror, as shown.

170,627
DESK TRAY FOR TYPISTS' ACCESSORIES
Louis P. Caldwell and Philipp C. Wohlt, Independence, Mo.
Application March 23, 1953, Serial No. 24,161
Term of patent 14 years
(Cl. D74—1)



The ornamental design for a desk tray for typists' accessories, as shown and described.

170,628
FINGER RING
Carmino Capraro, Providence, R. I., assignor to Uncas Manufacturing Company, a corporation of Rhode Island
Application May 21, 1953, Serial No. 25,187
Term of patent 14 years
(Cl. D45—10)



The ornamental design for a finger ring, substantially as shown.

170,629
CLOTHES TREE OR THE LIKE
Nicholas Davenport, Bronx, N. Y.
Application April 21, 1953, Serial No. 24,612
Term of patent 14 years
(Cl. D33—8)



The ornamental design for a clothes tree or the like, as shown.

170,630
TEXTILE FABRIC OR SIMILAR ARTICLE
Nathan Feinstein, New York, N. Y.
Application June 25, 1953, Serial No. 25,657
Term of patent 3½ years
(Cl. D92—1)



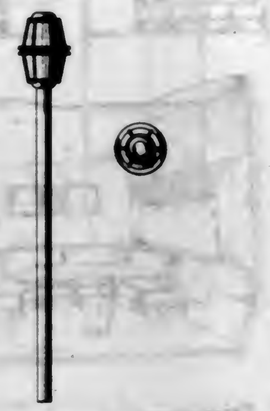
The ornamental design for a textile fabric or similar article, substantially as shown.

170,631
WEDDING ANNIVERSARY PIN
Oscar G. Feltner, Jr., Dallas, Tex.
Application April 24, 1952, Serial No. 19,456
Term of patent 14 years
(Cl. D29—2)



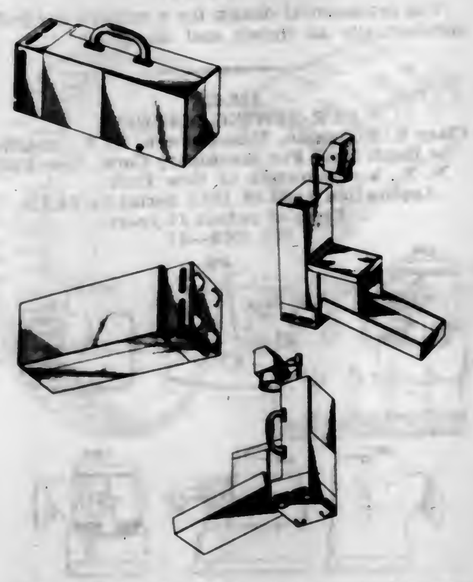
The ornamental design for a wedding anniversary pin, substantially as shown and described.

170,632
AUTOMOBILE FENDER GUIDE
Harry Ferman, Newark, N. J.
Application February 29, 1952, Serial No. 18,729
Term of patent 14 years
(Cl. D14—6)



The ornamental design for an automobile fender guide, as shown.

170,633
PORTABLE PROJECTOR
Harold G. Fitz Gerald, Los Angeles, Calif.
Application December 22, 1952, Serial No. 22,818
Term of patent 14 years
(Cl. D61—1)



The ornamental design for a portable projector, as shown.

170,634
FIGURINE
Edgar G. Frenzel, Chicago, Ill., assignor to Continental Art Company, Chicago, Ill., a partnership
Application June 1, 1953, Serial No. 25,259
Term of patent 3½ years
(Cl. D29—23)

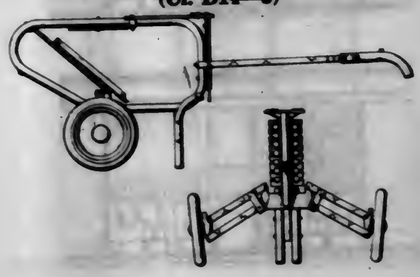


The ornamental design for a figurine, as shown.

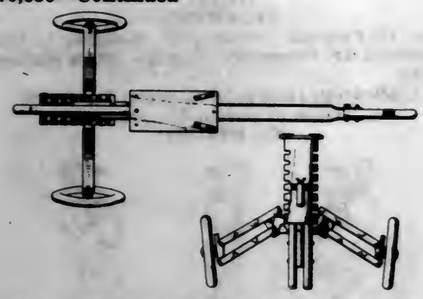
170,635
FIGURINE
Edgar G. Frenzel, Chicago, Ill., assignor to Continental Art Company, Chicago, Ill., a partnership
Application June 1, 1953, Serial No. 25,260
Term of patent 3½ years
(Cl. D29—23)

The ornamental design for a figurine, as shown.

170,636
CADDY CART
Frank A. Gastright, Fort Lauderdale, Fla.
Application May 11, 1953, Serial No. 24,946
Term of patent 14 years
(Cl. D14—3)

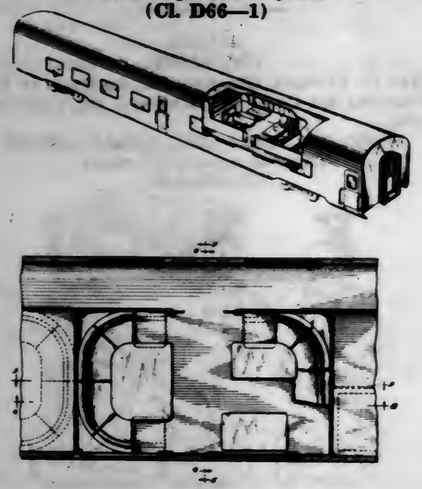


170,636—Continued

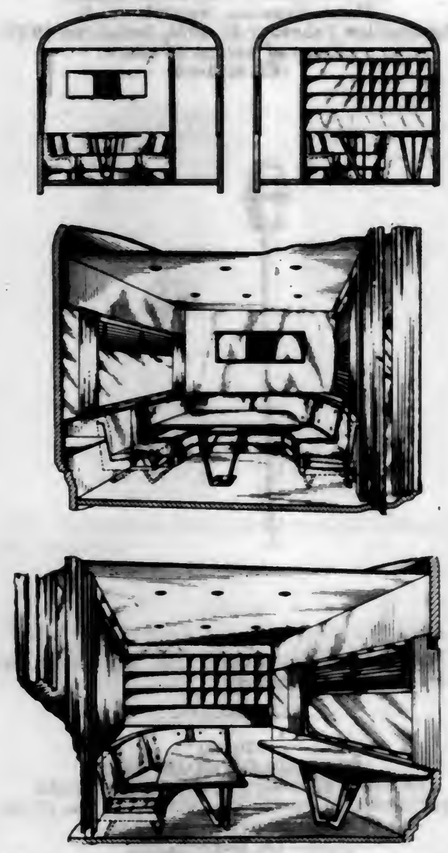


The ornamental design for a caddy cart, as shown.

170,637
RAILWAY CAR BODY
Ralph W. Haman, Flossmoor, and Clarence V. Norby, Chicago, Ill., assignors to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application April 12, 1952, Serial No. 19,302
Term of patent 14 years
(Cl. D66—1)

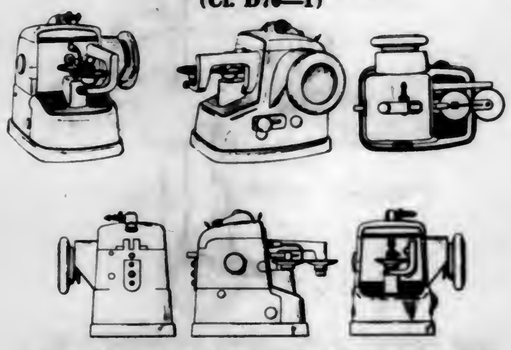


170,637—Continued



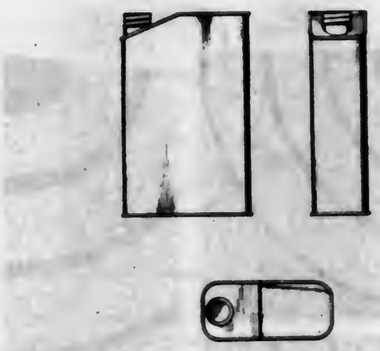
The ornamental design for a railway car body, substantially as shown and described.

170,638
FUR SEWING MACHINE
Clare E. Hodgman, Mamaroneck, N. Y., assignor to Bonis Bros. Fur Machinery Corp., New York, N. Y., a corporation of New York
Application April 29, 1953, Serial No. 24,751
Term of patent 14 years
(Cl. D70—1)



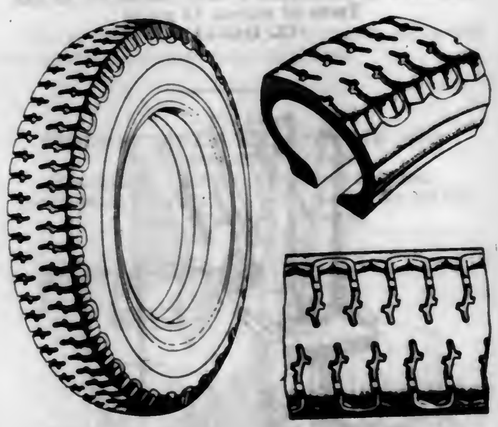
The ornamental design for a fur sewing machine, as shown.

170,639
POURING CAN
Edward J. Hoffman, Jr., Hatherne, Mass.
Application July 29, 1952, Serial No. 20,306
Term of patent 3½ years
(Cl. D58—17)



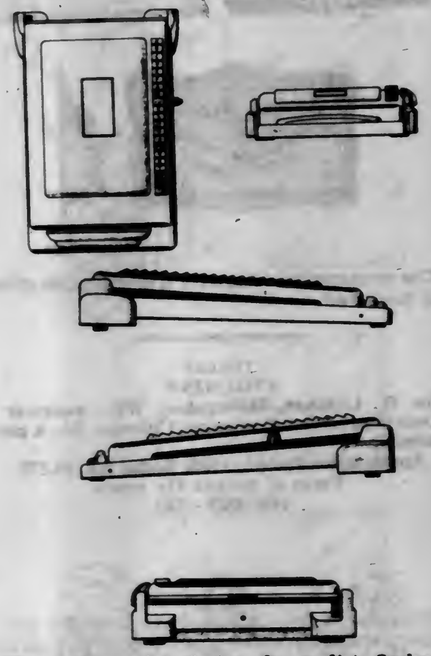
The ornamental design for a pouring can, as shown.

170,640
TIRE
Walter Humphries, Erdington, Birmingham, England, assignor to Dunlop Tire and Rubber Corporation, Buffalo, N. Y., a corporation of New York
Application April 28, 1953, Serial No. 24,731
In Great Britain February 7, 1953
Term of patent 14 years
(Cl. D90—20)



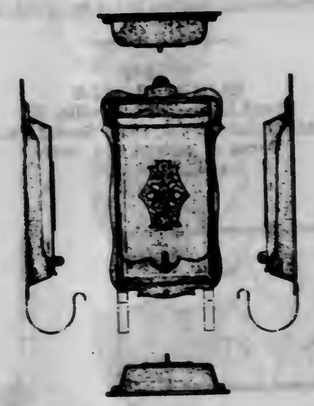
The ornamental design for a tire, as shown.

170,641
LIST FINDER
William Lang, Verona, N. J., assignor to The Bates Manufacturing Company, Orange, N. J., a corporation of New Jersey
Application April 7, 1953, Serial No. 24,391
Term of patent 14 years
(Cl. D74—1)



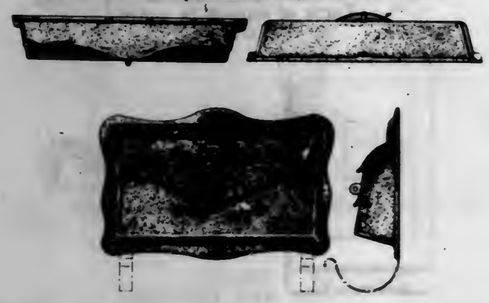
The ornamental design for a list finder, as shown.

170,642
MAILBOX
Albert W. Lindberg, Jr., Bayonne, N. J.
Application May 4, 1953, Serial No. 24,822
Term of patent 14 years
(Cl. D74—9)



The ornamental design for a mail box, as shown and described.

170,643
MAILBOX
Albert W. Lindberg, Jr., Bayonne, N. J.
Application May 4, 1953, Serial No. 24,823
Term of patent 14 years
(Cl. D74—9)



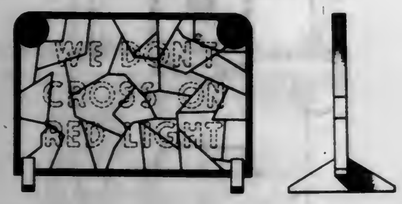
The ornamental design for a mail box, as shown and described.

170,644
FIGURINE
John W. Lindner, Milwaukee, Wis., assignor to Continental Art Company, Chicago, Ill., a partnership
Application June 1, 1953, Serial No. 25,272
Term of patent 3½ years
(Cl. D29—23)



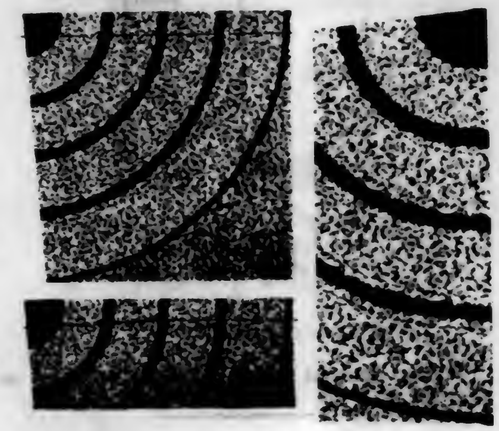
The ornamental design for a figurine, as shown.

170,645
BLOCK PUZZLE
Floyd Legue, Shelbyville, Ill.
Application January 2, 1953, Serial No. 22,983
Term of patent 3½ years
(Cl. D34—15)



The ornamental design for a block puzzle, as shown and described.

170,646
TEXTILE FABRIC OR SIMILAR ARTICLE
Jacques E. Maisch, New York, N. Y., assignor to Burlington Mills Corporation, Greensboro, N. C.
Application May 1, 1953, Serial No. 24,797
Term of patent 7 years
(Cl. D92—1)



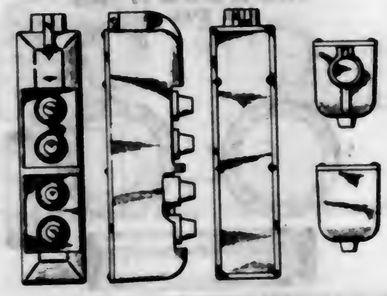
The ornamental design for a textile fabric or similar article, substantially as shown and described.

170,647
SLEEVE PRESS
Ira C. Maxwell and Ole H. Langen, Minneapolis, Minn., assignors to The Unipress Company, Incorporated, Minneapolis, Minn., a corporation of Minnesota
Application December 4, 1952, Serial No. 22,548
Term of patent 14 years
(Cl. D49—1)



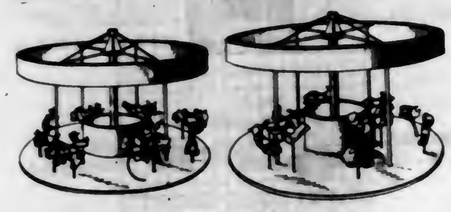
The ornamental design for a sleeve press, as shown.

170,648
ELECTRIC SWITCH HOUSING
Ambrose Mazzola, South Gate, Calif., assignor to Angelus Engineering Corporation, South Gate, Calif., a corporation of California
Application March 30, 1953, Serial No. 24,260
Term of patent 14 years
(Cl. D26—13)



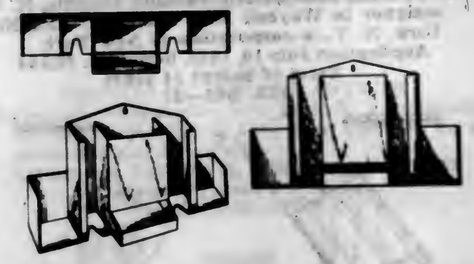
The ornamental design for an electric switch housing, substantially as shown.

170,649
MERRY-GO-ROUND FOR CHILDREN
Milton G. McKee, Youngstown, Ohio
Application June 29, 1950, Serial No. 10,838
Term of patent 3½ years
(Cl. D34—5)



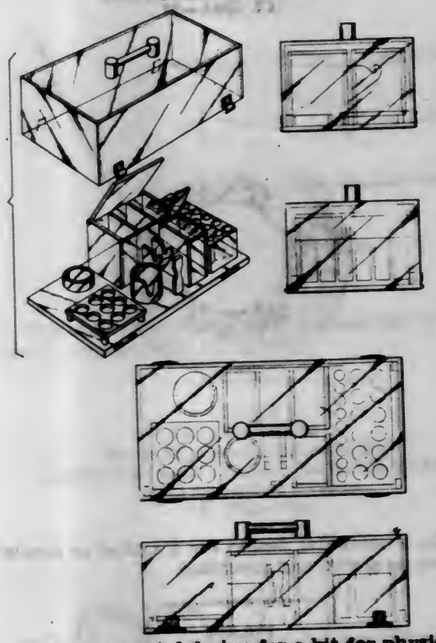
The ornamental design for a merry-go-round for children, substantially as shown.

170,650
COMBINED MATCH DISPENSER AND CONDIMENT HOLDER
Francis R. McNine, Bridgeport, Conn.
Application February 19, 1953, Serial No. 23,691
Term of patent 14 years
(Cl. D44—6)



The ornamental design for a combined match dispenser and condiment holder, substantially as shown.

170,651
KIT FOR PHYSICIANS' AND SURGEONS' SUPPLIES OR SIMILAR ARTICLE
Edward J. Palczewski, Philadelphia, Pa.
Application July 3, 1953, Serial No. 25,797
Term of patent 14 years
(Cl. D58—13)



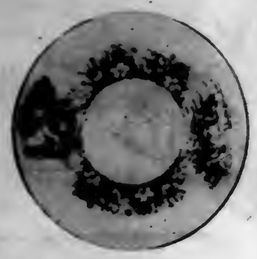
The ornamental design for a kit for physicians' and surgeons' supplies or similar article, as shown.

170,652
CUP OR SIMILAR ARTICLE
George Robert Palmeter, Kentville, Nova Scotia, Canada
Application April 2, 1953, Serial No. 24,331
In Canada October 14, 1952
Term of patent 14 years
(Cl. D44—9)



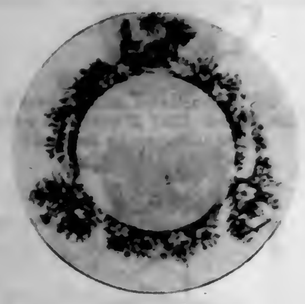
The ornamental design for a cup or similar article, as shown and described.

170,653
SAUCER OR SIMILAR ARTICLE
George Robert Palmeter, Kentville, Nova Scotia, Canada
Application April 2, 1953, Serial No. 24,332
In Canada October 14, 1952
Term of patent 14 years
(Cl. D44—9)



The ornamental design for a saucer or similar article, as shown and described.

170,654
PLATE OR SIMILAR ARTICLE
George Robert Palmeter, Kentville, Nova Scotia, Canada
Application April 2, 1953, Serial No. 24,333
In Canada October 14, 1952
Term of patent 14 years
(Cl. D44—15)



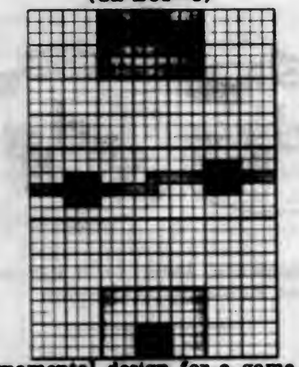
The ornamental design for a plate or similar article, as shown and described.

170,655
CONTAINER UNIT FOR DISINFECTANTS, DEODORANTS, INSECTICIDES, AND THE LIKE
David Rauch, Lancaster, Mass., assignor to Van Brode Milling Co., Inc., Clinton, Mass., a corporation of Massachusetts
Application February 16, 1953, Serial No. 23,628
Term of patent 14 years
(Cl. D16—2)



The ornamental design for a container unit for disinfectants, deodorants, insecticides, and the like, as shown.

170,656
GAME BOARD
Francis J. Rigney, Jr., Tiburon, Calif.
Application October 9, 1952, Serial No. 21,767
Term of patent 14 years
(Cl. D34—5)



The ornamental design for a game board, as shown and described.

170,657
COMBINATION BILL AND COIN HOLDER
Henry King Rosenbaum, Jackson Heights, N. Y., assignor to Waybell Mfg. Company, Inc., New York, N. Y., a corporation of New York
Application July 10, 1952, Serial No. 20,534
Term of patent 14 years
(Cl. D87—3)



The ornamental design for a combination bill and coin holder, substantially as shown.

170,658
INSTRUMENT CASE
Ralph M. Rowell, Lynn, Mass., and Roger B. Kerr, Jamestown, R. I., assignors to General Electric Company, a corporation of New York
Application April 15, 1953, Serial No. 24,504
Term of patent 14 years
(Cl. D52—1)



The ornamental design for an instrument case, as shown.

170,659
ROLLING PIN HOLDER OR SIMILAR ARTICLE
Arthur A. Powers, Sheridan, Wyo.
Application January 25, 1952, Serial No. 18,221
Term of patent 14 years
(Cl. D44—29)



The ornamental design for a rolling pin holder, or similar article, as shown.

170,660
FRUIT BOWL
Lyall Meller Ross, Balwyn, Victoria, Australia
Application February 12, 1953, Serial No. 23,592
In Australia December 4, 1952
Term of patent 14 years
(Cl. D36—2)



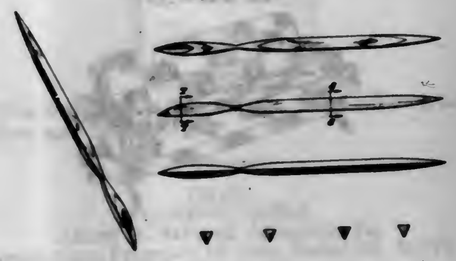
The ornamental design for a fruit bowl, as shown.

170,661
BROOCH OR SIMILAR ARTICLE
Raymonde Semensohn, New York, N. Y., assignor to Marcel Boucher et Cie., New York, N. Y., a corporation of New York
Application January 27, 1953, Serial No. 23,308
Term of patent 3½ years
(Cl. D45—19)



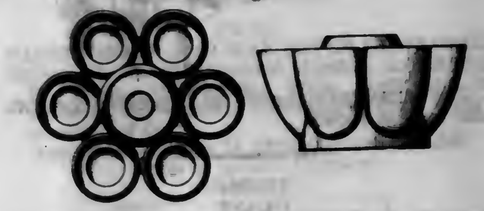
The ornamental design for a brooch or similar article, as shown.

170,662
MANICURE IMPLEMENT
Ruth D. Simmons, Los Angeles, Calif.
Application May 4, 1953, Serial No. 24,845
Term of patent 14 years
(Cl. D86—10)



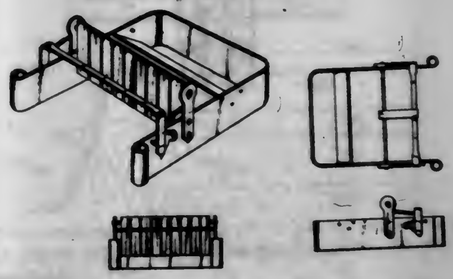
The ornamental design for a manicure implement, substantially as shown.

170,663
EGG HOLDER
Byrle W. Smith, Chicago, Ill.
Application April 14, 1953, Serial No. 24,486
Term of patent 7 years
(Cl. D44—10)



The ornamental design for an egg holder, substantially as shown.

170,664
BOWLING GAME DEVICE
Howard F. Spear, Greenview, Ill.
Application May 26, 1952, Serial No. 19,892
Term of patent 14 years
(Cl. D34—5)



The ornamental design for a bowling game device, as shown.

170,665
COMBINATION SOFA AND BED
Edmund J. Spence, New York, N. Y., assignor to Charlton Company, Inc., Fitchburg, Mass., a corporation of Massachusetts
Application May 29, 1952, Serial No. 19,938
Term of patent 7 years
(Cl. D15—11)



The ornamental design for a combination sofa and bed, as shown.

170,666
GLASS
Louis W. Stenger, Morgantown, W. Va., assignor to Seneca Glass Company, Morgantown, W. Va., a corporation of West Virginia
Application May 1, 1953, Serial No. 24,880
Term of patent 14 years
(Cl. D36—8)



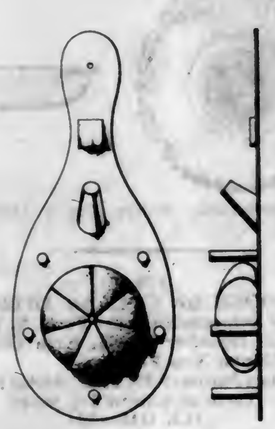
The ornamental design for a glass, as shown.

170,667
JEWELRY PENDANT OR SIMILAR ARTICLE
Samuel Stenberg, Philadelphia, Pa.
Application June 12, 1952, Serial No. 20,133
Term of patent 14 years
(Cl. D45—17)



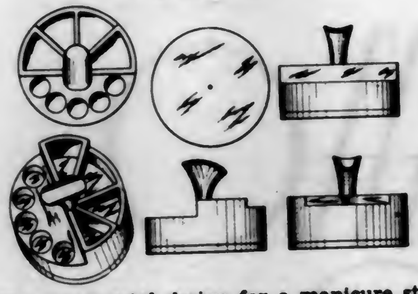
The ornamental design for a jewelry pendant or similar article, substantially as shown and described.

170,668
HOLDER FOR SEWING ACCESSORIES
Thomas V. Tierney, Belleville, and Samuel Gaccione, Nutley, N. J.
Application April 20, 1953, Serial No. 24,569
Term of patent 14 years
(Cl. D3—19)



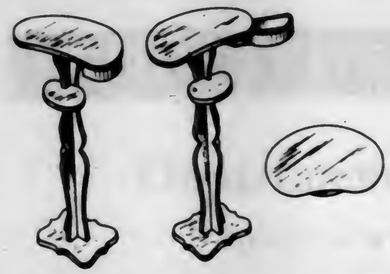
The ornamental design for a holder for sewing accessories, as shown.

170,669
MANICURE STAND OR SIMILAR ARTICLE
Edwin R. Wagner, St. Louis, Mo.
Application April 1, 1953, Serial No. 24,306
Term of patent 14 years
(Cl. D86—10)



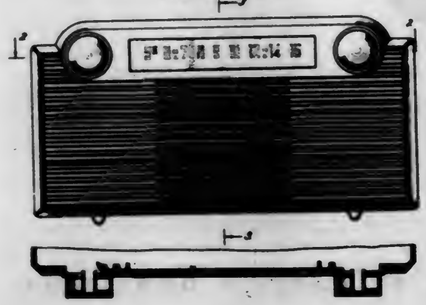
The ornamental design for a manicure stand or similar article, substantially as shown.

170,670
STAND
Louis A. Wieland, Pittsburgh, Pa.
Application April 3, 1953, Serial No. 24,335
Term of patent 7 years
(Cl. D32—14)

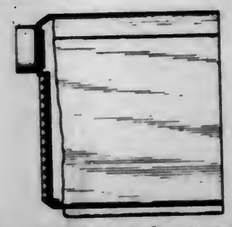


The ornamental design for a stand, substantially as shown and described.

170,671
RADIO CABINET
Lawrence H. Wilson, Grosse Pointe, Mich., assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application June 22, 1953, Serial No. 25,607
Term of patent 14 years
(Cl. D56—4)

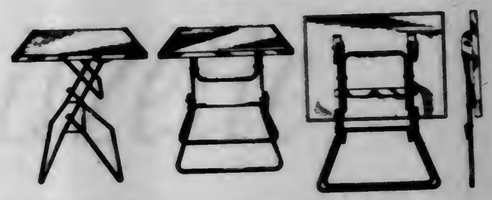


170,671—Continued



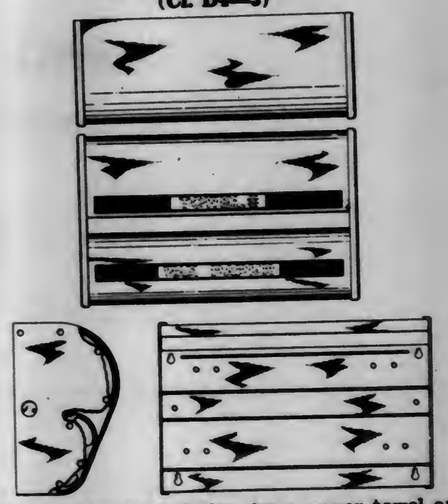
The ornamental design for a radio cabinet, as shown and described.

170,672
FOLDING TABLE
Albert M. Zalkind, Arlington, Va.
Application February 25, 1953, Serial No. 23,774
Term of patent 14 years
(Cl. D32—14)



The ornamental design for a folding table, as shown.

170,673
PAPER TOWEL AND WAX PAPER DISPENSER
Manuel S. Ziskin, Mayfield Heights, and Ralph B. Billig, Willoughby, Ohio, assignors to Kromex Corporation, Cleveland, Ohio, a corporation of Ohio
Application March 13, 1952, Serial No. 18,862
Term of patent 14 years
(Cl. D4—3)



The ornamental design for a paper towel and wax paper dispenser, substantially as shown and described.

October 27, 1953 Volume 675 Number 4

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

SINCLAIR WEEKS, *Secretary*

U. S. Patent Office

ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS



Condition of Applications Under Examination at Close of Business Oct. 9, 1953

Total number of patent applications awaiting action, 103,036. Date of oldest new application, December 5, 1952; date of oldest amended application, December 4, 1952.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) BLUM, A. (Acting)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	1-21-53	1-19-53	1206
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	1-19-53	1-8-53	1239
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	2-13-53	2-12-53	1868
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	1-21-53	1-21-53	1531
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	1-30-53	1-29-53	982
6. SURLE, H., Carbon Chemistry (part)	12-15-52	12-10-52	2827
7. GONSALVES, J. E., Optics; Photography (part)	1-21-53	1-19-53	1737
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	2-6-53	2-4-53	1528
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	1-26-53	1-15-53	1216
10. REYNOLDS, E. R. (NEFF, P. R., Acting), Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	2-13-53	2-12-53	1296
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	2-6-53	2-5-53	1196
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	1-24-53	1-15-53	1220
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	1-9-53	1-12-53	1234
14. MANIAN, J. C., Fluid Pressure Brake; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	1-30-53	1-26-53	1429
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	1-8-53	1-8-53	1709
16. LOVEWELL, N. N., Television; Telephony; Recorders	12-27-52	12-30-52	1778
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters: Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	1-19-53	1-19-53	1507
18. KURZ, J. A., Power Plants; Speed Responsive Devices	1-26-53	1-21-53	757
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	1-5-53	1-5-53	1132
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	2-2-53	2-2 53	1264
21. MADER, R. C., Textiles	1-19-53	1-13-53	1362
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	1-27-53	1-27-53	1073
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	1-19-53	1-7-53	1010
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machine; Textiles, Ironing or Smoothing	3-18-53	3-13-53	1111
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminuters; Distillation.	1-2-53	1-2-53	1379
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	2-2-53	2-2-53	1906
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	1-26-53	1-26-53	1277
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	2-16-53	2-3-53	1146
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	1-21-53	1-6-53	1057
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	3-27-53	3-27-53	1422
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	1-9-53	1-6-53	2533
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	2-18-53	2-13-53	1336
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	1-13-53	1-14-53	1925
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	1-7-53	1-6-53	1282
35. BROMLEY, E. D., Dispensing; Filling and Closing Portable Receptacles	2-19-53	2-16-53	1250
36. McFADYEN, A. D., Measuring and Testing	1-22-53	1-20-53	1119
37. LEVY, M. L., Electricity—Switches, Welding, Heating	2-11-53	2-9-53	1729
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	1-20-53	2-2-53	1565
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	3-9-53	3-9-53	1557
40. DRUMMOND, E. J., Receptacles (part); Packages	5-1-53	5-1-53	897
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	2-13-53	2-4-53	1681

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors.	1-9-53	1-9-53	2212
43. KNIGHT, W. G. (Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	1-15-53	1-15-53	1868
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	2-2-53	1-27-53	1324
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	12 31-52	1-2-53	1200
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	1-26-53	1-21-53	1602
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	1-2-53	1-8-53	2235
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	1-21-53	1-22-53	1450
50. BENGEL, W. G., Synthetic Resins; Rubber	4-6-53	4-6-53	1742
51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics.	2-2-53	1-27-53	1690
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	2-10-53	2-12-53	1967
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	2-9-53	2-16-53	1025
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	1-21-53	1-19-53	1887
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	2-9-53	1-7-53	1018
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	2-24-53	2-25-53	1332
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	2-3-53	2-4-53	1830
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	1-12-53	1-13-53	1395
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	1-28-53	1-26-53	1444
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	3-2-53	3-2-53	910
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.	1-21-53	1-27-53	1818
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	1-12-53	1-8-53	2068
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	1-23-53	1-21-53	1741
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	2-2-53	2-2-53	837
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	2-16-53	2-10-53	1564
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	2-9-53	2-4-53	1549
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording	1-29-53	1-19-53	1145
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	12-5-52	12-4-52	3068
DESIGNS: A—BREHM, G. L., Industrial Arts	5-13-53	6-4-53	1111
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	5-18-53	5-25-53	876

Number of new applications received week ending September 18, 1953

PATENTS 1,396 DESIGNS 93 REISSUES 4 TOTAL 1,493

Total number of trade-mark applications awaiting action (including renewals and republications) 11,266. Date of oldest new application, May 8, 1953; date of oldest amended application, May 6, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	5-12-53	5-12-53	2768
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	5-6-53	5-6-53	2913
Renewals (All Classes)	9-7-53	9-9-53	312
Republications (All Classes)	8-4-53	9-15-53	193
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	5-26-53	5-25-53	2501
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	5-19-53	5-13-53	2579

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Ace-Hi Records, Inc., Los Angeles and Beverly Hills, Calif. Grooved phonograph records. Serial No. 644,271, Oct. 27. Class 36.

Acme Staple Company, Camden, N. J. Staples. Serial No. 636,451, Oct. 27. Class 13.

Acme Staple Company, Camden, N. J. Stapling machines, binding machines, and tacking machines. Serial No. 636,452, Oct. 27. Class 23.

Acme Staple Company, Camden, N. J. Staples. Serial No. 636,453, Oct. 27. Class 13.

Ajax Box Company, The, Chicago, Ill. Corrugated paper. Serial No. 635,510, Oct. 27. Class 37.

Albion Malleable Iron Company, Albion, Mich. Unmachined rough malleable castings. Serial No. 616,804, Oct. 27. Class 14.

All-Power Manufacturing Co., Montebello, Calif. Sink strainers. Serial No. 631,967, Oct. 27. Class 13.

Altman, Joseph, San Francisco, Calif. Men's and young men's suits, topcoats, sport coats, etc. Serial No. 618,333, Oct. 27. Class 39.

American Alcolac Corporation, Fairfield, Baltimroe, Md. Lauryl sulfate. Serial No. 645,527, Oct. 27. Class 6.

American Blouse Co. Inc., New York, N. Y. Boys' inner and outer shirts and shorts. Serial No. 606,527, Oct. 27. Class 39.

American Cyanamid Company, New York, N. Y. Antibiotic. Serial No. 646,194, Oct. 27. Class 18.

American Cyanamid Company, New York, N. Y. Antibiotic. Serial No. 646,917, Oct. 27. Class 18.

American Home Products Corporation, doing business as Wyeth Laboratories, New York, N. Y., and Philadelphia, Pa. Rubefacient medicinal cream. Serial No. 644,379, Oct. 27. Class 18.

American International Co.: *See*—
Chadwell, Paul A.

American Larder Supply Company, Chicago, Ill. Food freezer. Serial No. 642,383, Oct. 27. Class 31.

American Lignite Products Co., Ione, Calif. Mineral wax. Serial No. 641,827, Oct. 27. Class 15.

Anderson Clarke, Incorporated, Wildwood, N. J. Insecticides. Serial No. 643,142, Oct. 27. Class 6.

Atlas Underwear Company, The, Piqua, Ohio. Infants' training pants. Serial No. 646,645, Oct. 27. Class 39.

Austin, James, Company, Mars, Pa. Bleach for laundry and household uses. Serial No. 646,257, Oct. 27. Class 6.

Ayerst, McKenna & Harrison Limited, New York, N. Y. Muscle relaxant and vitamins. Serial No. 646,842, Oct. 27. Class 18.

B. V. D. Company, Inc., The, New York, N. Y. Men's and boys' knitted underwear and outerwear. Serial No. 645,530, Oct. 27. Class 39.

Bailey Shoe Company, San Angelo, Tex. Women's house slippers. Serial No. 632,499, Oct. 27. Class 39.

Balkamp, Inc., Indianapolis, Ind. Gasket material. Serial No. 638,790, Oct. 27. Class 35.

Bass River Tackle Testers, Bass River, Mass. Artificial fishing lure. Serial No. 628,739, Oct. 27. Class 22.

Beach Soap Company, Lawrence, Mass. Laundry soap. Serial No. 631,645, Oct. 27. Class 52.

Beauty Counselors, Inc., Grosse Pointe, Mich. Hair rinse. Serial No. 640,321, Oct. 27. Class 51.

Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y. Aluminum, antimony, arsenic, etc. Serial No. 608,297, Oct. 27. Class 14.

Bel-Toe Foundation Company: *See*—
Talley, Dolen O.

Berger, David, doing business as Berger Furnace Manufacturing Co., Pittsburgh, Pa. Air conditioning equipment. Serial No. 642,933, Oct. 27. Class 34.

Berger Furnace Manufacturing Co.: *See*—
Berger, David.

Berverdor, Inc., Tracy, Calif. Fresh vegetables. Serial No. 640,255, Oct. 27. Class 46.

Birnie Company, Inc., The, Atlanta, Ga. Boys' and young men's jackets, overalls, jumpers, etc. Serial No. 645,378, Oct. 27. Class 39.

Blue Bell, Inc., Greensboro, N. C. Men's and boys' blanket lined coats, cossack coats, and western shirts, etc. Serial No. 646,048, Oct. 27. Class 39.

Bohlen Gross & Moyer, Allentown, Pa. Men's suits, topcoats, and sport coats. Serial No. 645,226, Oct. 27. Class 39.

Boldemann Chocolate Co., Inc., San Francisco, Calif. Candy. Serial No. 620,587, Oct. 27. Class 46.

Bolta-Saran, Inc., Lawrence, Mass. Scouring pads. Serial No. 630,661, Oct. 27. Class 4.

Borden Company, The, New York, N. Y. Poultry feed supplement. Serial No. 642,936, Oct. 27. Class 18.

Bowl-O-Beauty Co., Maywood, Ill. Floral display. Serial No. 624,020, Oct. 27. Class 50.

Brea Chemicals, Inc., Los Angeles, Calif. Ammonia and ammonium compounds. Serial No. 646,358, Oct. 27. Class 6.

Brewer & Eliot, Inc., Boston, Mass. Lubricants. Serial No. 626,492, Oct. 27. Class 15.

Brooks Brothers, Inc., New York, N. Y. Men's outer shirts. Serial No. 644,007, Oct. 27. Class 39.

Cabot, Godfrey L., Inc., Boston, Mass. Carbon black. Serial No. 644,217, Oct. 27. Class 6.

California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif. Soil conditioners. Serial No. 646,599, Oct. 27. Class 10.

Callaway Mills Company, La Grange, Ga. Impregnating oil used in treating dusting cloths, etc. Serial No. 634,573, Oct. 27. Class 6.

Camay Hosiery Mills: *See*—
Kahn, Morris.

Cambridge Rubber Company, The, Cambridge, Mass., and Taneytown, Md. Boots. Serial No. 628,190, Oct. 27. Class 39.

Campana Corporation, Batavia, Ill. Preparation for internal use intended to reduce the desire to use tobacco products. Serial No. 646,266, Oct. 27. Class 18.

Carey, Philip, Manufacturing Company, The, Cincinnati, Ohio. Accessories for air conditioning, heating, and ventilating systems. Serial No. 556,410, Oct. 27. Class 12.

Carmi-Ainsbrooke Corporation, New York, N. Y. Men's pajamas and under shorts. Serial No. 629,424, Oct. 27. Class 39.

Castiglione Accordion Company: *See*—
Castiglione, Vincent.

Castiglione, Vincent, doing business as Castiglione Accordion Company, Detroit, Mich. Accordions. Serial No. 644,011, Oct. 27. Class 36.

Causyth S. P. A., Milan, Italy. Medicinal and pharmaceutical preparations. Serial No. 630,388, Oct. 27. Class 18.

Cellucord Corporation, The, New York, N. Y. Crushed or twisted cord. Serial No. 645,106, Oct. 27. Class 7.

Chadwell, Paul A., doing business under the name of American International Co., Washington, D. C. Wax candles. Serial No. 646,654, Oct. 27. Class 15.

Chase Chemical Company, Newark, N. J. Lipotropic antispasmodic bronchodilator, coronary vasodilator and diuretic. Serial No. 649,210, Oct. 27. Class 18.

Chicago Pharmacal Company, Chicago, Ill. Medicinal preparation. Serial No. 639,158, Oct. 27. Class 18.

Chicago Sanitary Products Co., doing business as V-G Manufacturing Co., Chicago, Ill. Skin cleanser in the nature of a detergent or soap. Serial No. 642,266, Oct. 27. Class 52.

Chicopee Mills, Inc., New York, N. Y. Diapers and diaper liners. Serial No. 624,124, Oct. 27. Class 39.

Claremont Pigment Dispersion Corporation, Brooklyn, N. Y. Liquid light refractory frost coating. Serial No. 593,650, Oct. 27. Class 6.

Clarke, John, & Co. Inc., New York, N. Y. Mildew preventative and moth killer. Serial No. 636,838, Oct. 27. Class 4.

Clearfield Furs, Inc., Clearfield, Pa. Wearing apparel. Serial No. 569,813, Oct. 27. Class 39.

Clinico, Inc., New York, N. Y. After-shampoo terry cloth cap. Serial No. 639,016, Oct. 27. Class 39.

Cloth Laying Appliances Corp., Woodside, N. Y. Laying and spreading machines, pin bar tools. Serial No. 504,033, Oct. 27. Class 23.

Continental Oil Company, Ponca City, Okla. Liquefied petroleum gases. Serial No. 644,602, Oct. 27. Class 6.

Cooperstown Chemical, Inc., Cooperstown, N. Y. Cleansing, sanitizing, and deodorizing material for eggs. Serial No. 625,462, Oct. 27. Class 52.

Corcoran Mfg. Co., Long Beach, Calif. Floor mops. Serial No. 642,951, Oct. 27. Class 29.

Cox Manufacturing Company, Ridgeville, Ind. Oil fired furnaces, gas fired furnaces, heat exchangers, etc. Serial No. 638,067, Oct. 27. Class 34.

Darling Valve & Manufacturing Company, Williamsport, Pa. Fire hydrants. Serial No. 643,820, Oct. 27. Class 13.

Deb Shoe Company, Inc., St. Louis, Mo. Women's shoes. Serial Nos. 646,605–6, Oct. 27. Class 39.

Decatur Pump Company, Decatur, Ill. Water pumps and water pumping units. Serial No. 634,244, Oct. 27. Class 23.

Delta Gamma Pre-School Visually Handicapped Foundation of St. Louis, St. Louis, Mo. Christmas trees. Serial No. 645,699, Oct. 27. Class 1.

Dentists' Supply Company of New York, The, York, Pa. Artificial teeth. Serial No. 646,237, Oct. 27. Class 44.

De Vry Corporation, Chicago, Ill. Motion picture sound projectors. Serial No. 645,292, Oct. 27. Class 26.

Dick, A. B., Company, Niles, Ill. Liquids for use in a duplicating process. Serial No. 645,124, Oct. 27. Class 6.

Dolge, C. B., Company, The, Westport, Conn. Synthetic detergent. Serial No. 641,128, Oct. 27. Class 52.

Douglas Fir Plywood Association, Tacoma, Wash. Plywood. Serial No. 629,890, Oct. 27. Class 12.
Dri-Babe of California, Inc., Santa Monica, Calif. Diapers. Serial No. 636,412, Oct. 27. Class 39.
Drug Specialties, Inc., Winston-Salem, N. C. Medical preparation. Serial No. 642,530, Oct. 27. Class 18.
Dry-O-Matic Company, The, Detroit, Mich. Apparatus for training a child to prevent bedwetting, such apparatus comprising an electric circuit, etc. Serial No. 643,584, Oct. 27. Class 21.
Drywall Trim, Inc., New York, N. Y. Metal corner and edge guards for exterior wall board corners. Serial No. 638,640, Oct. 27. Class 12.
Eagle Clothes, Inc., Brooklyn, N. Y. Men's clothing. Serial No. 645,877, Oct. 27. Class 39.
Eagle Clothes, Inc., Brooklyn, N. Y. Men's clothing. Serial No. 645,883, Oct. 27. Class 39.
Eagle-Ottawa Leather Company, Grand Haven, Mich. Leather. Serial Nos. 642,204–6, Oct. 27. Class 1.
Eagle-Ottawa Leather Company, Grand Haven, Mich. Leather. Serial Nos. 642,208–10, Oct. 27. Class 1.
Eagle-Ottawa Leather Company, Grand Haven, Mich. Leather. Serial No. 642,626, Oct. 27. Class 1.
Easterling China Company, Chicago, Ill. China tableware. Serial No. 619,822, Oct. 27. Class 30.
Econocast, Inc., Chattanooga, Tenn. Metal castings. Serial Nos. 627,119–20, Oct. 27. Class 14.
Ecusta Paper Corporation, Pisgah Forest, N. C. Bible and printing papers. Serial No. 632,359, Oct. 27. Class 37.
Electro Manufacturing Corporation, Chicago, Ill. Fluorescent lighting apparatus. Serial No. 629,156, Oct. 27. Class 21.
Electro Surgical Instrument Co., Rochester, N. Y. Physicians' and surgeons' instruments. Serial No. 639,467, Oct. 27. Class 44.
Electrofilm Corporation, North Hollywood, Calif. Graphite and finely divided metallic lubricating compositions. Serial No. 642,630, Oct. 27. Class 15.
Elysee Cosmetic Manufacturing Co., San Francisco, Calif. Skin therapy machines. Serial No. 648,162, Oct. 27. Class 44.
Endust Corporation, The, Washington, D. C. Dust absorbing composition. Serial No. 629,094, Oct. 27. Class 52.
Estwing Manufacturing Company, Incorporated, Rockford, Ill. Hammers and hatchets. Serial No. 619,612, Oct. 27. Class 23.
Eurasia Corporation, New York, N. Y. Sequin berets. Serial No. 630,403, Oct. 27. Class 39.
Extruders, Inc., Hawthorne, Calif. Polyethylene film in sheet form for the manufacture of bags. Serial No. 645,641, Oct. 27. Class 1.
Faichney Instrument Corporation, Watertown, N. Y. Clinical thermometer. Serial No. 648,240, Oct. 27. Class 44.
Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Water-repellent impregnating agent. Serial No. 637,819, Oct. 27. Class 6.
Fawick Airflex Company, Inc., The, Cleveland, Ohio, assignor to Federal Fawick Corporation. Industrial and marine clutches, marine power transmissions, industrial brakes, etc. Serial Nos. 621,663–4, Oct. 27. Class 23.
Federal Distributing Co. Inc., Kansas City, Mo. Chemicals. Serial No. 643,829, Oct. 27. Class 6.
Federal Fawick Corporation, assignee: *See*—
Fawick Airflex Company, Inc., The.
Felca S. A., Granges, Switzerland. Watches, and parts of watches. Serial No. 603,289, Oct. 27. Class 27.
Flandria Cycle Corporation, New York, N. Y. Bicycles. Serial No. 651,099, Oct. 27. Class 19.
Fletcher Paper Company, Alpena, Mich. Printing paper. Serial No. 623,539, Oct. 27. Class 37.
Flite-Tronics, Inc., Burbank, Calif. Aircraft marker beacon receiver. Serial No. 635,911, Oct. 27. Class 26.
Frank Industries, Inc., Eau Claire, Wis. Fire alarms. Serial No. 644,669, Oct. 27. Class 9.
Freeman, H., & Son, Inc., Philadelphia, Pa. Men's suits, coats, and trousers. Serial No. 646,543, Oct. 27. Class 39.
Fullerform, Inc., Phoenix, Ariz. Irrigation ditch lining equipment. Serial No. 604,474, Oct. 27. Class 23.
Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. Serial No. 644,613, Oct. 27. Class 28.
Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. Serial Nos. 644,908–10, Oct. 27. Class 28.
Gemex Company, Union, N. J. Brace'ets and watch bracelets and watch straps. Serial No. 645,798, Oct. 27. Class 28.
Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. Serial No. 646,544, Oct. 27. Class 28.
General Electric Company, Schenectady, N. Y. Phonograph styli. Serial No. 639,629, Oct 27. Class 36.
Gillette Company, The, Boston, Mass. Shampoo. Serial No. 634,588, Oct. 27. Class 52.
Gladwin Plastics Co., Atlanta, Ga. Plastic clothes hampers. Serial No. 646,940, Oct. 27. Class 2.
Globe Ring Co., New York and Brooklyn, N. Y. Metal castings. Serial No. 622,650, Oct. 27. Class 14.
Glu-Pen Corporation, Wilmington, Del., and New York, N. Y. Glue. Serial No. 637,371, Oct. 27. Class 5.
Gordon Chemical Co., Inc., Kansas City, Mo. Liquid wood preservative. Serial No. 620,502, Oct. 27. Class 6.
Granite Hosiery Mills, assignee: *See*—
Melrose Hosiery Mills, Inc.
Guardian Chemical Corporation, Long Island City, N. Y. Ink and dye eradicator. Serial No. 642,222, Oct. 27. Class 52.
Haas Tailoring Company, The, Baltimore, Md. Made-to-measure suits. Serial No. 641,046, Oct. 27. Class 39.
Haggar Company, Dallas, Tex. Men's slacks. Serial No. 638,417, Oct. 27. Class 39.
Hart Schaffner & Marx, Chicago, Ill. Men's and boys' articles of clothing. Serial No. 644,843, Oct. 27. Class 39.
Heller, George W., Inc., New York, N. Y. Men's wearing apparel. Serial No. 629,671, Oct. 27. Class 39.
Hill Co., The: *See*—
Hill, Theodore R.
Hill-Smith Termite Control Co., Memphis, Tenn. Chemical treatment of buildings and wooden structures for preserving and protecting same against termites, etc. Serial No. 632,936, Oct. 27. Class 103.
Hill, Theodore R., doing business as The Hill Co., Detroit, Mich. Rectal ointment. Serial No. 646,865, Oct. 27. Class 18.
Hobson, Jay G., doing business as Rigident Products Company, Los Angeles, Calif. Powder retainer for false teeth. Serial No. 637,586, Oct. 27. Class 51.
Hoffman Lion Mills Company, Incorporated, Fall River, Mass. Cord. Serial No. 645,708, Oct. 27. Class 7.
Holiday, Inc., New York, N. Y. Perfume. Serial No. 639,329, Oct. 27. Class 51.
Hoover Company, The, North Canton, Ohio. Toy suction cleaners. Serial No. 650,709, Oct. 27. Class 22.
Hormo-Pharma Limited, London, England. Tonic medicine. Serial No. 642,224, Oct. 27. Class 18.
House of Swansdown, Inc., The, New York, N. Y. Ladies' and misses' outerwear. Serial No. 645,710, Oct. 27. Class 39.
Howe, John E., Yuma, Ariz. Fresh melons. Serial No. 633,309, Oct. 27. Class 46.
Hubbard Shoe Co. Inc., Rochester, N. H. Shoes and insoles and sock linings for shoes. Serial No. 645,568, Oct. 27. Class 39.
Imperial Chemical Industries Limited, London, England. Agricultural and horticultural sprayers, carburetors, copper plate printing presses, etc. Serial No. 594,789, Oct. 27. Class 23.
Industrial Soap Company, St. Louis, Mo. Floor wax soap. Serial No. 635,416, Oct. 27. Class 4.
International Biochemical Corporation, Brooklyn, N. Y. Nutritional and therapeutic preparation. Serial No. 646,473, Oct. 27. Class 18.
International Shoe Company, St. Louis, Mo. Men's, women's, and children's shoes. Serial No. 645,572, Oct. 27. Class 39.
International Sisal Company, Minneapolis, Minn. Sweeping compound. Serial No. 631,621, Oct. 27. Class 52.
International Telephone and Telegraph Corporation, New York, N. Y. Telephone switching systems and apparatus therefor. Serial No. 631,668, Oct. 27. Class 21.
Irvington Varnish & Insulator Company, Irvington, N. J., assignor to Minnesota Mining and Manufacturing Company, St. Paul, Minn. Furfuraldehyde-ketone reaction products. Serial No. 646,616, Oct. 27. Class 6.
Istituto Farmacoterapico Italiano, Rome, Italy. Pharmaceutical preparation. Serial No. 635,364, Oct. 27. Class 18.
Ives-Cameron Company, Inc., New York, N. Y. Polysorbate, choline, and inositol in combined dosage form. Serial No. 646,288, Oct. 27. Class 18.
Jackson-Wheeler Metals Service, Inc., Brooklyn, N. Y. Bearing alloys, Babbitt metals, and white-metal alloys. Serial No. 630,296, Oct. 27. Class 14.
Jeffrey-Allan Industries: *See*—
Kulwin, Seymour.
Jem Company, The: *See*—
Pinkas, David.
Jess & C. A. Cutler, Inc., Columbus, Ga. Wire chinchilla cages. Serial No. 646,536, Oct. 27. Class 3.
Johns-Manville Corporation, New York, N. Y. Asbestos-cement pipe couplings. Serial No. 574,036, Oct. 27. Class 12.
Johnson, Stephens and Shinkle Shoe Company, St. Louis, Mo. Shoes. Serial No. 646,447, Oct. 27. Class 39.
Johnston, James C., Fort Lauderdale, Fla. Preformed sewer pipe joints. Serial No. 619,139, Oct. 27. Class 12.
Joyce, Inc., Pasadena, Calif. Women's shoes. Serial No. 646,399, Oct. 27. Class 39.
Kahn, Morris, doing business as Camay Hosiery Mills, Newark, N. J. Men's, ladies', and children's socks and stockings. Serial No. 646,874, Oct. 27. Class 39.
Karg Brothers, Inc., Johnstown, N. Y. Leather. Serial No. 638,365, Oct. 27. Class 1.
Kelly, R. A., Co., The, Xenia, Ohio. Sisal rope and twine. Serial No. 646,222, Oct. 27. Class 7.
Kjellstrom, Bjorn, La Porte, Ind. Serving trays, sets of serving trays, tray tables, collapsible tables, etc. Serial No. 637,998, Oct. 27. Class 32.
Kleinert, I. B., Rubber Company, New York, N. Y. Protective covering of sheet material with eye holes for covering the face. Serial No. 644,324, Oct. 27. Class 39.

Klenzade Products, Incorporated, Beloit, Wis. Detergents. Serial No. 624,350, Oct. 27. Class 52.
Knost, Lloyd H., doing business as Reed Engineering Company, Carthage, Mo. Plate bending rolls, slip roll forming machines, tank turning rolls, etc. Serial No. 646,775, Oct. 27. Class 23.
Knox Company, The, Los Angeles, Calif. Medicated cream, pomade, or ointment. Serial No. 646,139, Oct. 27. Class 18.
Kool Vent Metal Awning Corporation of America, Pittsburgh, Pa. Metal awnings. Serial No. 644,673, Oct. 27. Class 12.
Kuhner Packing Company, Muncie, Ind. Cured smoked pork sausage. Serial No. 640,162, Oct. 27. Class 46.
Kulwin, Seymour, doing business as Jeffrey-Allan Industries, Chicago, Ill. Dashboard trays, and decorative devices for motor vehicles. Serial No. 622,899, Oct. 27. Class 19.
Laher Spring and Tire Corporation, Oakland, Calif. Automobile and truck pneumatic tires. Serial No. 649,515, Oct. 27. Class 35.
Laughlin, Alexander, Portland, Maine. Hair depilatory. Serial No. 642,823, Oct. 27. Class 51.
LeGear, Dr. L. D., Medicine Company, St. Louis, Mo. Therapeutic mineral and vitamin supplement. Serial No. 607,554, Oct. 27. Class 18.
Lenthéric, Incorporated, New York, N. Y. Hair-dressing and setting lotion. Serial No. 640,464, Oct. 27. Class 51.
Lenthéric, Incorporated, New York, N. Y. Cologne and shave lotion. Serial No. 646,225, Oct. 27. Class 51.
Les Parfums de Dana, Inc., New York, N. Y. Perfume, cologne, toilet water, etc. Serial No. 637,054, Oct. 27. Class 51.
Librascope, Incorporated, Glendale, Calif. Balance computers. Serial No. 644,658, Oct. 27. Class 26.
Lipper & Mann, Inc., New York, N. Y. Chinaware. Serial No. 635,313, Oct. 27. Class 30.
Little Ones Footwear Inc., New York, N. Y. Children's slippers. Serial No. 645,654, Oct. 27. Class 39.
Lord Jeff Knitting Company, Incorporated, Brooklyn, N. Y. Men's knitted sweaters and basque shirts. Serial No. 647,638, Oct. 27. Class 39.
Louis, Walter, & Co., Inc., Kansas City, Mo. Ladies' coats and suits. Serial No. 645,454, Oct. 27. Class 39.
Lowe, Henry E., Jr., doing business as Lowe & Lowe Co., Cassopolis, Mich. Ground clay. Serial No. 645,578, Oct. 27. Class 1.
Lowe & Lowe Co.: *See*—
Lowe, Henry E., Jr.
Manhattan Shirt Company, The, New York, N. Y. Men's outer dress and sport shirts, pajamas, handkerchiefs, etc. Serial No. 645,656, Oct. 27. Class 39.
Mathieson Chemical Corporation, New York, N. Y. Antibacterial preparation. Serial No. 646,885, Oct. 27. Class 18.
McLean, Dr., J. H., Medicine Company, The, St. Louis, Mo. Tonic medicine. Serial No. 646,564, Oct. 27. Class 18.
Mead Johnson & Company, Evansville, Ind. Fructose in solution for parenteral administration. Serial No. 641,942, Oct. 27. Class 18.
Mead Johnson & Company, Evansville, Ind. Emulsion of vitamins A, D, and C. Serial No. 642,980, Oct. 27. Class 18.
Mead, William H., San Mateo, Calif. Portable machines. Serial No. 630,942, Oct. 27. Class 23.
Meat Merchandising, Inc., St. Louis, Mo. Periodical. Serial No. 637,317, Oct. 27. Class 38.
Melrose Hosiery Mills, Inc., High Point, N. C., assignee of Granite Hosiery Mills, Hosiery. Serial No. 642,635, Oct. 27. Class 39.
Meyer, O. W., Napoleon, Ohio. Feed supplement. Serial No. 646,228, Oct. 27. Class 18.
Michaels & Co. Inc., Brooklyn, N. Y. Jewelry and precious metalware. Serial No. 636,991, Oct. 27. Class 28.
Michaels, Stern & Company, Incorporated, Rochester, N. Y. Men's suits, coats, and trousers. Serial No. 626,689, Oct. 27. Class 39.
Mid-Continent Chemical Co. Inc., South Bend, Ind. Detergent. Serial No. 627,955, Oct. 27. Class 52.
Milk Farm, The, Dixon, Calif. Gift shop items—namely, earthenware and porcelain dishes, etc. Serial No. 609,182, Oct. 27. Class 30.
Miller, James S., Trenton, N. J. Occlusal plane recorders. Serial No. 639,335, Oct. 27. Class 44.
Millville Manufacturing Company, The, Philadelphia, Pa. Diapers. Serial No. 630,435, Oct. 27. Class 39.
Minnesota Mining and Manufacturing Company, assignee: *See*—
Irvington Varnish & Insulator Company.
Minnesota Mining and Manufacturing Company, St. Paul, Minn. Machines for measuring and dispensing definite lengths of adhesive tape. Serial No. 645,176, Oct. 27. Class 26.
Moore, Ruth E., Washington, D. C. Amulet made of precious metal. Serial No. 640,350, Oct. 27. Class 28.
Moore, Ruth E., Washington, D. C. Amulet made of precious metal. Serial No. 641,685, Oct. 27. Class 28.
Morse Sewing Machine and Supply Corp., New York, N. Y. Sewing machines. Serial No. 632,569, Oct. 27. Class 23.
Mundet Cork Corporation, North Bergen, N. J. Articles made of natural cork; of cork particles, etc., namely cork insulation, etc. Serial No. 634,210, Oct. 27. Class 12.
Myrna Knitwear, Inc., New York, N. Y. Men's and boys' sport shirts, polo shirts, and T shirts. Serial No. 630,338, Oct. 27. Class 39.
N. V. Koninklijke Pharmaceutische Fabrieken V/H Brocades-Stheeman & Pharmacia, Amsterdam, Netherlands. Pharmaceutical preparation. Serial No. 642,983, Oct. 27. Class 18.
National Bellas Hess, Inc., North Kansas City, Mo. Girls' shoes, slippers, loafers, etc. Serial No. 629,451, Oct. 27. Class 39.
National Blank Book Company, Holyoke and Riverside, Holyoke, Mass. Notebooks. Serial No. 645,180, Oct. 27. Class 37.
National Fisheries Institute, Inc., Wilmington, Del., and Washington, D. C. Trade association services rendered to its members. Serial No. 586,872, Oct. 27. Class 100.
National Silver Company, New York, N. Y. Base metal table cutlery. Serial No. 645,725, Oct. 27. Class 23.
National Transparent Plastics Company, Springfield, Mass. Covers made of transparent plastic material for women's shoes and boots. Serial No. 633,785, Oct. 27. Class 39.
Naxon Utilities Corporation, Chicago, Ill. Electric griddles, electric frying pans, electric deep fat fryers. Serial No. 601,637, Oct. 27. Class 21.
Oran Company, Columbus, Ohio. Domestic furnaces. Serial No. 643,181, Oct. 27. Class 34.
Oxwall Tool Co., Ltd., New York, N. Y. Magnetized screwdrivers. Serial No. 639,239, Oct. 27. Class 23.
Pacific Plastics Company, Renton, Wash. Hard resinous plastic sheets. Serial No. 618,097, Oct. 27. Class 12.
Paper Novelty Manufacturing Company, Brooklyn, N. Y. Flame-proof cotton batting. Serial No. 643,852, Oct. 27. Class 1.
Parke, Davis & Company, Detroit, Mich. Non-alcoholic, aqueous vitamin solution. Serial No. 646,011, Oct. 27. Class 18.
Parke, Davis & Company, Detroit, Mich. Anti-coagulant. Serial No. 646,012, Oct. 27. Class 18.
Pinkas, David, doing business as The Jem Company, South Norwalk, Conn. Partially printed tickets to be attached to watches and other jewelry. Serial No. 635,491, Oct. 27. Class 37.
Pittsburgh Coke & Chemical Company, Pittsburgh and Neville Island, Pittsburgh, Pa. Cement and mortar. Serial No. 645,006, Oct. 27. Class 12.
Plummer, Roland E., Huntington, N. Y. Men's, women's, and children's shoes and shoe soles. Serial No. 645,666, Oct. 27. Class 39.
Polacoat Incorporated, Cincinnati, Ohio. Rear view mirrors for vehicles. Serial No. 606,322, Oct. 27. Class 19.
Primrose House, Inc., Indianapolis, Ind. Eye shadow. Serial No. 646,165, Oct. 27. Class 51.
Puritan Compressed Gas Corporation, Kansas City, Mo. Oxygen humidifiers. Serial No. 627,148, Oct. 27. Class 44.
Randolph Manufacturing Company, Incorporated, Randolph, Mass. Shoes and sandals. Serial No. 617,377, Oct. 27. Class 39.
Rayelle Foreign Trade Service, Philadelphia, Pa. Cameras and camera cases, flash guns, etc. Serial No. 633,217, Oct. 27. Class 26.
Reardon Company, The, St. Louis County, Mo. Joint cement; patching plaster, tile cement, etc. Serial No. 626,173, Oct. 27. Class 12.
Reed Engineering Company: *See*—
Knost, Lloyd H.
Reish Products, Inc., South Bend, Ind. Metal combination storing, freezing, and cooking containers. Serial No. 644,453, Oct. 27. Class 13.
Revertex Limited, London, England. Quick setting compound composed of natural or synthetic resins with cementitious material. Serial No. 630,855, Oct. 27. Class 12.
Rexall Drug Company, Los Angeles, Calif. Liver concentrate, ferrous gluconate with added vitamins, etc. Serial No. 646,426, Oct. 27. Class 18.
Rexall Drug Company, Los Angeles, Calif. Medicinal preparations. Serial No. 646,427, Oct. 27. Class 18.
Rhinopto Company, Dallas, Tex. Antihistaminic cold capsules. Serial No. 646,428, Oct. 27. Class 18.
Ricky Craft Originals, Philadelphia, Pa. Infants' and toddlers' coats and coat sets. Serial No. 644,066, Oct. 27. Class 39.
Rigident Products Company: *See*—
Hobson, Jay G.
Rike-Kumler Company, The, Dayton, Ohio. Men's suits. Serial No. 643,436, Oct. 27. Class 39.
Riley, William B., Ld, Inc., Beverly Hills, Calif. Men's coats, trousers, suits, sweaters, etc. Serial No. 628,430, Oct. 27. Class 39.
Robertson & Woodcock Limited, London, England. Candy. Serial No. 643,116, Oct. 27. Class 46.
Robinson, J. W., Co., Los Angeles, Calif. Women's ready-to-wear garments and accessories. Serial No. 613,346, Oct. 27. Class 39.
Rohr Aircraft Corporation, Chula Vista, Calif. Electrical instrument for indicating the surface cleanness of sheet metal. Serial No. 633,946, Oct. 27. Class 26.

Roller Bearing Company of America, West Trenton, N. J. Roller bearings. Serial No. 645,733, Oct. 27. Class 23.
Ruth, Acquilla R., York, Pa. Radiator cleaners. Serial No. 584,642, Oct. 27. Class 23.
S. A. des Ciments Portland Liegeois, Haccourt, Belgium. Portland cement. Serial No. 633,632, Oct. 27. Class 12.
S & S Trading Company, Gloversville, N. Y. Finished leathers. Serial No. 643,858, Oct. 27. Class 1.
Safety Box Toe Company, Boston, Mass. Steel box toes for shoes. Serial No. 612,474, Oct. 27. Class 39.
Sagner's, A., Son, Baltimore, Md. Men's and women's coats and suits; men's trousers, etc. Serial No. 614,411, Oct. 27. Class 39.
Saks & Company, New York, N. Y. Women's, misses', and children's shoes and slippers. Serial No. 645,674, Oct. 27. Class 39.
Sardeau, Inc., New York, N. Y. Refined isomeric propylene myristin. Serial No. 633,878, Oct. 27. Class 6.
Schenley Laboratories, Inc., New York, N. Y. Skin ointment. Serial No. 646,809, Oct. 27. Class 18.
Schlein, Samuel E., Inc., doing business under the name Westbrooke Clothes, New York, N. Y. Men's and young men's outer wearing apparel. Serial No. 634,808, Oct. 27. Class 39.
Scholler Brothers, Inc., Philadelphia, Pa. Compositions for textile treatment. Serial No. 640,647, Oct. 27. Class 6.
Scout-Tex, Inc., New York, N. Y. Polo shirts. Serial No. 629,125, Oct. 27. Class 39.
Seaplant Chemical Corporation, New Bedford, Mass. Whole Irish moss and refined whole Irish moss. Serial No. 629,256, Oct. 27. Class 1.
Seiberling Rubber Company, Barerton, Ohio. Pneumatic rubber tires. Serial No. 649,392, Oct. 27. Class 35.
Service Products, Incorporated, Greenville, Pa. Chemical preparation for use in cleaning coffee urns. Serial No. 645,217, Oct. 27. Class 52.
Shainberg, Sam, Dry Goods Company, Memphis, Tenn. Articles of wearing apparel, work pants, work shirts, overalls, etc. Serial No. 641,976, Oct. 27. Class 39.
Shaw, Earl R., doing business as Tiedright Tie Company, Asheboro, N. C. Men's and boys' ties. Serial No. 646,436, Oct. 27. Class 39.
Siegman, Arthur, Inc., New York, N. Y. Men's neckties and scarves. Serial No. 646,324, Oct. 27. Class 39.
Signal Oil Company, assignor to Standard Oil Company of California, doing business as Signal Oil Company, Los Angeles, Calif. Flushing oil useful for removing abrasives and other by-products. Serial No. 614,800, Oct. 27. Class 52.
Simplex Shoe Manufacturing Company, Milwaukee, Wis. Shoes. Serial No. 636,864, Oct. 27. Class 39.
Sjostrom, John E., Company, Philadelphia, Pa. Laboratory furniture. Serial No. 641,096, Oct. 27. Class 32.
Smythson, Frank, Limited, London, England. Writing paper. Serial No. 618,183, Oct. 27. Class 37.
Societe pour le Traitement et l'Amelioration des Tissus, Paris, France. Chemical preparations. Serial No. 638,980, Oct. 27. Class 6.
Societe Rhodiaceta, Paris, France. Hosiery, and underwear. Serial No. 634,568, Oct. 27. Class 39.
Somavia, Roman, Hollister, Calif. Chinchillas. Serial No. 639,491, Oct. 27. Class 1.
Sorensen, John R., & Company Limited, Manchester, England. Emulsions of fatty acid esters in water being for use as a substitute for cream. Serial No. 632,276, Oct. 27. Class 46.
Spraying Systems Co., Bellwood, Ill. Nozzles for spraying liquids. Serial No. 629,397, Oct. 27. Class 13.
Standard Oil Company of California, assignee: *See*— Signal Oil Company.
Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Low-octane fuel composition useful for removing carbon and other combustion chamber deposits. Serial No. 641,749, Oct. 27. Class 52.
Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Motor fuels and lubricating oils. Serial No. 646,439, Oct. 27. Class 15.
Sterling Drug Inc., New York, N. Y. Antiseptic agent for use in detergent preparations. Serial No. 645,269, Oct. 27. Class 52.
Stern Brothers, New York, N. Y. Travel clocks. Serial No. 639,497, Oct. 27. Class 27.
Stern Brothers, New York, N. Y. Costume jewelry. Serial No. 639,498, Oct. 27. Class 28.
Stern Brothers, New York, N. Y. Ceramic articles. Serial No. 639,499, Oct. 27. Class 30.
Stern Brothers, New York, N. Y. Drinking glasses and tumblers, luncheon sets, bowls, etc. Serial No. 639,501, Oct. 27. Class 33.
Stern Brothers, New York, N. Y. Costume jewelry. Serial No. 639,515, Oct. 27. Class 28.
Stern Brothers, New York, N. Y. Sanitary goods. Serial No. 639,524, Oct. 27. Class 44.
Stern's Nurseries, Inc., Geneva, N. Y. Gladiolus bulbs. Serial No. 645,738, Oct. 27. Class 1.
Storkline Furniture Corporation, Chicago, Ill. Baby strollers, baby carriages, baby coaches, etc. Serial No. 651,422, Oct. 27. Class 19.
Stuart Company, The, Pasadena, Calif. Medicinal preparation. Serial No. 640,655, Oct. 27. Class 18.
Talley, Dolen O., doing business as Bel-Toe Foundation Company, Houston, Tex. Reaming of foundation holes for foundation footings. Serial No. 620,297, Oct. 27. Class 103.
Taylor, Thomas, & Sons, Inc., Hudson, Mass. Woven and braided elastic fabric stripe, tapes, trimmings, etc. Serial No. 617,736, Oct. 27. Class 40.
Tenderich, Gertrude S., assignee: *See*— Voss, Joseph A.
Tennessee Products & Chemical Corporation, Nashville, Tenn. Plaster, concrete, cement, etc. Serial No. 634,424, Oct. 27. Class 12.
Texas Harvest Hat Company, Laredo, Tex. Men's, ladies', and children's hats. Serial No. 621,989, Oct. 27. Class 39.
Texas Harvest Hat Company, Laredo, Tex. Men's, ladies', and children's hats. Serial No. 638,328, Oct. 27. Class 39.
Three Dimension Company, Chicago, Ill. Slide mount for stereopticon projectors. Serial No. 645,017, Oct. 27. Class 26.
Tiedright Tie Company: *See*— Shaw, Earl R.
Toro Manufacturing Corporation of Minnesota, Minneapolis, Minn. Lawn mowers. Serial No. 630,236, Oct. 27. Class 23.
Toro Manufacturing Corporation of Minnesota, Minneapolis, Minn. Rotary snow plows. Serial No. 638,225, Oct. 27. Class 23.
Ulmann, A. E., & Associates, Ltd., New York, N. Y. Welding rods and welding alloys. Serial No. 625,836, Oct. 27. Class 14.
Underwood Corporation, New York, N. Y. Typewriters and parts thereof. Serial No. 637,158, Oct. 27. Class 23.
V-G Manufacturing Co.: *See*— Chicago Sanitary Products Co.
Vistarama, Incorporated, Beverly Hills, Calif. Three-dimensional motion pictures. Serial No. 645,021, Oct. 27. Class 26.
Vita-Zahnfabrik H. Rauter O. H. G., Essen, Germany. Artificial teeth. Serial No. 641,254, Oct. 27. Class 44.
Voss, Joseph A., doing business as The Voss Patents and Sales Company, assignor to G. S. Tenderich, Denver, Colo. Gravity fed and dip type liquid brushes or felt pad applicators. Serial No. 568,606, Oct. 27. Class 29.
Voss Patents and Sales Company, The: *See*— Voss, Joseph A.
Vulcan Corporation, Portsmouth, Ohio. Bowling pins. Serial No. 647,670, Oct. 27. Class 22.
Wales Game Systems, Inc., Buffalo, N. Y. Board game. Serial No. 635,983, Oct. 27. Class 22.
Wales Game Systems, Inc., Buffalo, N. Y. Board games. Serial No. 635,985, Oct. 27. Class 22.
Wales Game Systems, Inc., Buffalo, N. Y. Board games. Serial No. 635,987, Oct. 27. Class 22.
Wander Company, The, Chicago, Ill. Anesthetic preparation. Serial No. 643,388, Oct. 27. Class 18.
Wee-Sox Hosiery Mills, Incorporated, Randleman, N. C. Children's hosiery. Serial No. 637,806, Oct. 27. Class 39.
Westbrooke Clothes: *See*— Schlein, Samuel E., Inc.
White, Frank P., Company, Minneapolis, Minn. Liquid dye. Serial No. 637,098, Oct. 27. Class 6.
White Laboratories, Inc., Kenilworth, N. J. Preparation containing antibiotic drugs. Serial No. 640,060, Oct. 27. Class 18.
White, S. S., Dental Manufacturing Company, The, Philadelphia, Pa. Impression compound. Serial No. 620,635, Oct. 27. Class 44.
Whitley Tailleurs Inc., New York, N. Y. Ladies' and misses' coats. Serial No. 645,455, Oct. 27. Class 39.
Winnen Incinerator Company, The, Bedford, Ohio. Commercial and domestic incinerators. Serial No. 633,644, Oct. 27. Class 34.
Wollfarberei Burglen Dr. Jakob Cuns A.-G., Burglen, Thurgau, Switzerland. Knitted articles of clothing. Serial No. 635,863, Oct. 27. Class 39.
Woodall Industries, Incorporated, Detroit, Mich. Resin fibrous composition sheet material. Serial No. 639,094, Oct. 27. Class 12.
Woodall Industries, Incorporated, Detroit, Mich. Fibrous composition sheet material. Serial No. 639,095, Oct. 27. Class 12.
Wyeth Laboratories: *See*— American Home Products Corporation.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Bactericides. 338,986, Sept. 22, 1936. Corrected. O. G. Oct. 27. Class 6.
Advance Buying Corp., New York, N. Y. Women's and children's blouses and dresses. 581,686, Oct. 27; Serial No. 642,720, published July 21, 1953. Class 39.
Aeroplane Tackle Manufacturing Co.: *See*— Scanlan, Elizabeth S.
Aktiengesellschaft Cilander, Herisau, Switzerland. Organdy, in the form of piece goods. 305,155, renewed Aug. 8, 1953. O. G. Oct. 27. Class 42.
Alcon Laboratories, Inc., Fort Worth, Tex. Ophthalmic solutions. 581,463, Oct. 27; Serial No. 607,468, published July 28, 1953. Class 18.
Algy Shoes, Inc., Everett, Mass. Shoes. 581,605, Oct. 27; Serial No. 637,635, published July 21, 1953. Class 39.
Altman, B., & Co.: *See*— Wycombe, Meyer, Inc.
Aluminum Cooking Utensil Company, The, to The Aluminum Cooking Utensil Company, Inc., New Kensington, Pa. Base metal hollow ware. 306,897, renewed Oct. 3, 1953. O. G. Oct. 27. Class 13.
Aluminum Cooking Utensil Company, Inc., The: *See*— Aluminum Cooking Utensil Company, The.
Alvin Mfg. Co., New York, N. Y. Silver tableware, hollow ware, and flat ware. 55,363, Aug. 14, 1906. Amended. O. G. Oct. 27. Class 28.
American Bemberg Corporation, to Beaunit Mills, Inc., New York, N. Y. Thread and yarn. 305,127, renewed Aug. 1, 1953. O. G. Oct. 27. Class 43.
American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. 581,526, Oct. 27; Serial No. 628,899, published July 28, 1953. Class 44.
American Fused Quartz Company, Inc., Dover, N. J. Fused quartz pipes, pipe fittings and accessories. 581,727, Oct. 27; Serial No. 634,771. Class 33.
American National Travelers Service: *See*— Rushmore, Walter C.
American Saw and Manufacturing Company, Springfield, Mass. Hole saws. 581,719, Oct. 27; Serial No. 619,795. Class 23.
American Well Works, The, Aurora, Ill. Deep-well pumps, turbine deep-well pumps, centrifugal pumps, etc. 893,323, Dec. 10, 1912. Republished Oct. 27. Class 23.
Andrews Horse Radish Co., Inc., Wolcott, Conn. Horse radish and cocktail sauce. 581,544, Oct. 27; Serial No. 631,036, published July 21, 1953. Class 46.
Anesite Company, Chicago, Ill. Extruded thermoplastic products. 581,519, Oct. 27; Serial No. 627,030, published July 28, 1953. Class 1.
Aplin & Barrett Limited, Yeovil, Somerset, England. Packaged meats, meat pastes, etc. 581,645, Oct. 27; Serial No. 640,387, published July 21, 1953. Class 46.
Appelgate, Ray D., Agency: *See*— Appelgate, Raymond D.
Appelgate, Raymond D., doing business as Ray D. Appelgate Agency, Rockville Centre, N. Y. General insurance brokerage. 581,704, Oct. 27; Serial No. 635,576, published July 14, 1953. Class 102.
Apple Growers Association, Hood River, Oreg. Canned fruit. 306,927, renewed Oct. 3, 1953. O. G. Oct. 27. Class 46.
Archdale Manufacturing Co., Inc., High Point, N. C. Ladies' slips and half slips. 581,543, Oct. 27; Serial No. 630,746, published July 21, 1953. Class 39.
Armour and Company, Chicago, Ill. Sudsing packaged detergent. 581,454, Oct. 27; Serial No. 600,755, published Apr. 7, 1953. Class 52.
Arnold, Schwinn & Co., Chicago, Ill. Bicycles. 581,559, Oct. 27; Serial No. 632,069, published July 28, 1953. Class 19.
Aron, J., & Company, Inc., New York, N. Y. Green coffee. 581,695, Oct. 27; Serial No. 645,374, published July 21, 1953. Class 46.
Artistic Foundations, Inc., New York, N. Y. Girdles. 581,607, Oct. 27; Serial No. 638,052, published July 14, 1953. Class 39.
Arwell, Inc., Waukegan, Ill. Poison feed boxes. 581,566, Oct. 27; Serial No. 632,711, published July 28, 1953. Class 2.
Astron Corporation, East Newark, N. J. Capacitors. 581,475, Oct. 27; Serial No. 615,006, published July 14, 1953. Class 21.
Atchison, Topeka and Santa Fe Railway Company, The, Chicago, Ill. Railroad and bus transportation of passengers, etc. 581,696, Oct. 27; Serial No. 550,775, published July 21, 1953. Class 105.
Atlantic Trading Food Corp., New York, N. Y. Salami. 581,554, Oct. 27; Serial No. 631,716, published July 14, 1953. Class 46.
Atlas Powder Company, Wilmington, Del. Technical bulletin. 581,670, Oct. 27; Serial No. 641,665, published July 14, 1953. Class 38.
Atuyer, Bianchini, Ferier, Lyon, France, and New York, N. Y., to Bianchini, Ferier, Inc., New York, N. Y. Piece fabrics. 93,954, re-renewed Oct. 28, 1953. O. G. Oct. 27. Class 42.
B. & L. Laboratories: *See*— Thompson, Harold J.
Baitch & Castaldi, Inc., New York, N. Y. Ladies', misses', and children's coats, suits. 581,447, Oct. 27; Serial No. 501,275, published July 21, 1953. Class 39.
Baker Castor Oil Company, The, Jersey City, N. J., and New York, N. Y. Aliphatic alcohol esters of ricinoleic acid, which are used as upper cylinder lubricants. 581,497, Oct. 27; Serial No. 621,446, published July 7, 1953. Class 15.
Bal Dolls, Inc., New York, N. Y. Dolls. 581,647, Oct. 27; Serial No. 640,489, published July 14, 1953. Class 22.
Banner Manufacturing Co. Inc., doing business as Gold Seal Mfg. Co., New York, to Banner Manufacturing Co. Inc., doing business as Gold Seal Mfg. Co., Brooklyn, N. Y. Anti-freeze solution. 304,102, renewed June 20, 1953. O. G. Oct. 27. Class 6.
Bari, Jean, & Co., Inc. Import-Export, Cliffside Park, N. J. Canned tomatoes, canned tomato paste, cheese, etc. 581,631, Oct. 27; Serial No. 639,407, published July 28, 1953. Class 46.
Baxter Laboratories, Inc., Morton Grove, Ill. Parenteral solutions. 581,653, Oct. 27; Serial No. 640,901, published July 7, 1953. Class 18.
Bay State Milling Company, Winona, Minn. Wheat flour. 308,617, renewed Dec. 12, 1953. O. G. Oct. 27. Class 46.
Beaunit Mills, Inc.: *See*— American Bemberg Corporation.
Becton Dickinson and Company, Rutherford, N. J. Measuring rule. 581,565, Oct. 27; Serial No. 632,580, published July 21, 1953. Class 26.
Bellsey, Dave, Co. Inc., New York, N. Y. Ladies', misses' coats. 581,506, Oct. 27; Serial No. 624,073, published May 19, 1953. Class 39.
Berlin & Jones Co., Inc., New York, N. Y. Correspondence envelopes. 581,612, Oct. 27; Serial No. 638,395, published July 14, 1953. Class 37.
Bianchini, Ferier, Lyon, France, to Bianchini, Ferier, Inc., New York, N. Y. Piece goods. 308,760–1, renewed Dec. 19, 1953. O. G. Oct. 27. Class 42.
Bianchini, Ferier, Inc.: *See*— Atuyer, Bianchini, Ferier. Bianchini, Ferier.
Big Gain Products: *See*— Halverson, Charles.
Binney & Smith Company, New York, N. Y. Chalk crayon. 581,499, Oct. 27; Serial No. 622,734, published June 30, 1953. Class 37.
Bird Provision Co., Pekin, Ill. Pork sausage. 581,611, Oct. 27; Serial No. 638,347, published July 28, 1953. Class 46.
Birmingham Paper Company, Birmingham, Ala. Catalogs, drawings, and printed charts. 581,498, Oct. 27; Serial No. 622,008, published July 14, 1953. Class 38.
Blaich, Adolph, Incorporated, San Francisco, Calif. Fishing equipment, archery equipment, badminton equipment, etc. 581,608, Oct. 27; Serial No. 638,058, published July 28, 1953. Class 22.
Blau, Joseph, doing business as Tone Professional Products, assignor to Mathieson Chemical Corporation, New York, N. Y. Sedative, anodyne and palatable expectorant. 581,465, Oct. 27; Serial No. 607,841, published Sept. 11, 1951. Class 18.
Block, Ferdinand H., doing business as Pfister Jewelry Company, New Iberia, La. Rosaries, crucifixes, and religious medals and chains. 581,570, Oct. 27; Serial No. 633,527, published June 9, 1953. Class 28.
Boston Vacuum Trust, trustee: *See*— Howard, John B.
Bradshaw, R. D., & Sons, Wendell, Idaho. Crystallized honey. 581,676, Oct. 27; Serial No. 642,010, published July 21, 1953. Class 46.
Bray, J. W., Company: *See*— Bray, James W., Sr.
Bray, James W., Sr., doing business as J. W. Bray Company, Dalton, Ga. Chenille scuffles. 581,486, Oct. 27; Serial No. 618,912, published July 21, 1953. Class 39.
Brevitt Shoes Limited, Leicester, England. Boots, shoes, and slippers. 581,568, Oct. 27; Serial No. 633,236, published July 21, 1953. Class 39.
Brunswick Quick Freezer: *See*— Lewis, Samuel L.
Burkart, F., Manufacturing Co., St. Louis, Mo. Ladies' and misses' shoes. 581,571, Oct. 27; Serial No. 633,531, published July 21, 1953. Class 39.
Burton-Dixie Corporation, Chicago, Ill. Porch beds. 307,213, renewed Oct. 17, 1953. O. G. Oct. 27. Class 32.
Burton-Dixie Corporation, Chicago, Ill. Porch beds and deck chairs. 308,008, renewed Nov. 14, 1953. O. G. Oct. 27. Class 32.

Bymart, Inc., Dover, Del., and New York, N. Y., now by change of name Bymart-Tintair, Inc. Hair coloring preparations. 581,714, Oct. 27; Serial No. 613,760,. Class 51.

Bymart-Tintair, Inc.: *See*—
Bymart, Inc.

Califone Corporation, Hollywood, Calif. Speed control mechanism for record players. 581,469, Oct. 27; Serial No. 611,756, published July 14, 1953. Class 21.

California Prune and Apricot Growers Association, San Jose, Calif. Fruit juices; fruit syrups; etc. 307,699, renewed Oct. 31, 1953. O. G. Oct. 27. Class 46.

Callaway Mills Company, La Grange, Ga. Washable articles of wearing apparel. 581,602, Oct. 27; Serial No. 637,569, published July 21, 1953. Class 39.

Caltex of California, Inc.: *See*—
Caltex Sportswear Co. of California, Inc.

Caltex Sportswear Co of California, Inc., Los Angeles, Calif., now by change of name Caltex of California, Inc. Women's and misses' brassières. 581,594, Oct. 27; Serial No. 636,630, published July 21, 1953. Class 39.

Candle-Lite Chemical Company, Miami, Fla. Vaporizer for insecticide particularly adapted for attachment to an electric light bulb. 581,535, Oct. 27; Serial No. 630,117, published July 14, 1953. Class 21.

Carbona Products Company, Long Island City, N. Y. Dry-cleaning preparations and grease solvent. 581,528, Oct. 27; Serial No. 629,352, published July 28, 1953. Class 52.

Carey, Philip Manufacturing Company, The, Cincinnati, Ohio. Shingles. 581,710, Oct. 27; Serial No. 579,966. Class 12.

Carolina Baking Company, Charlotte, N. C. by Columbia Baking Company, Atlanta, Ga. Bread and cake. 211,544, Apr. 13, 1926. Republished Oct. 27. Class 46.

Carolina Baking Company, Charlotte, N. C. by Columbia Baking Company, Atlanta, Ga. Cake. 213,360, May 25, 1926. Republished Oct. 27. Class 46.

Carolina Baking Company, Charlotte, N. C. by Columbia Baking Company, Atlanta, Ga. Bread. 216,875, Aug. 24, 1926. Republished Oct. 27. Class 46.

Carolina Coffee Company, Charleston, S. C. Coffee, tea, ground pepper, etc. 581,484, Oct. 27; Serial No. 618,623, published July 21, 1953. Class 46.

Casement Hardware Company, The, Chicago, Ill. Window and door units. 581,601, Oct. 27; Serial No. 637,478, published July 28, 1953. Class 12.

Cela Landwirtschaftliche Chemikalien G. m. b. H., Ingelheim am Rhine, Germany. Insecticides. 581,620, Oct. 27; Serial No. 639,099, published July 28, 1953. Class 6.

Celanese Corporation of America, New York, N. Y. Fabrics. 305,742, renewed Aug. 22, 1953. O. G. Oct. 27. Class 42.

Celanese Corporation of America, New York, N. Y. Fabrics in the piece. 306,491, renewed Sept. 19, 1953. O. G. Oct. 27. Class 42.

Celanese Corporation of America, New York, N. Y. Fabrics. 307,458–60, renewed Oct. 24, 1953. O. G. Oct. 27. Class 42.

Celanese Corporation of America, New York, N. Y. Men's, women's, and children's underwear. 307,648, renewed Oct. 31, 1953. O. G. Oct. 27. Class 39.

Celanese Corporation of America, New York, N. Y. Fabrics. 307,649, renewed Oct. 31, 1953. O. G. Oct. 27. Class 42.

Celanese Corporation of America, New York, N. Y. Fabrics in the piece. 307,855–6, renewed Nov. 7, 1953. O. G. Oct. 27. Class 42.

Celanese Corporation of America, New York, N. Y. Fabrics. 308,484, renewed Dec. 5, 1953. O. G. Oct. 27. Class 42.

Celanese Corporation of America, New York, N. Y. Fabrics. 308,727, renewed Dec. 19, 1953. O. G. Oct. 27. Class 42.

Century Metalcraft Corporation, Los Angeles, Calif. Sterling silver flatware. 581,688, Oct. 27; Serial No. 642,870, published June 9, 1953. Class 28.

Chanticleer Food Products: *See*—
Pulford, George W. S.

Charles of New Orleans: *See*—
Maginnis, Charles M.

Cherry-Burrell Corporation, Chicago, Ill. Industrial magazine. 581,525, Oct. 27; Serial No. 628,521, published July 21, 1953. Class 38.

Clark Thread Company, The, Wilmington, Del., and Clarkdale, Ga., now by change of name and merger Coats & Clark Inc. Stranded cotton. 581,446, Oct. 27; Serial No. 690,582, published July 14, 1953. Class 43.

Cleveland Mill and Power Company, to Cleveland Mills Company, Lawndale, N. C. Mercerized crochet cotton, twine for needle work, embroidery thread, etc. 308,747, renewed Dec. 19, 1953. O. G. Oct. 27. Class 43.

Cleveland Mills Company: *See*—
Cleveland Mill and Power Company.

Coats & Clark Inc.: *See*—
Clark Thread Company, The.

Cohen, Goldman & Co., Inc., New York, N. Y., to House of Worsted-Tex, Inc., Baltimore, Md., and Philadelphia, Pa. Men's, boys' and children's outer garments. 309,685, renewed Jan. 23, 1954. O. G. Oct. 27. Class 39.

Colonial Provision Co., Inc., Boston, Mass. Hams, shoulders, bacon, etc. 307,590, renewed Oct. 31, 1953. O. G. Oct. 27. Class 46.

Columbia Baking Company: *See*—
Carolina Baking Company.

Columbian Art Works, Inc., Milwaukee, Wis. Combination check, deposit, and expenditure account book. 581,457, Oct. 27; Serial No. 603,045, published June 30, 1953. Class 37.

Commercial Solvents Corporation, New York, N. Y. Vitamin concentrates. 581,652, Oct. 27; Serial No. 640,848, published July 28, 1953. Class 18.

Concrete Conduit Company, Colton, Calif. Reinforced concrete pipe and collars. 581,713, Oct. 27; Serial No. 610,256. Class 12.

Cone, Frederick H., & Company Incorporated, New York, N. Y. Synthetic brush filaments. 581,654, Oct. 27; Serial No. 640,915, published July 28, 1953. Class 1.

Counolly Shoe Co., Stillwater, Minn. Men's leather shoes. 392,767, Jan. 13, 1942. Republished Oct. 27. Class 39.

Continental Radiant Glass Heating Corporation, New York, N. Y. Electrically energized heating equipment. 581,720, Oct. 27; Serial No. 619,965. Class 21.

Convert-A-Phone Company, Incorporated, Birmingham, Ala. Amplifying apparatus. 581,711, Oct. 27; Serial No. 603,769. Class 21.

Cowiche Growers, Inc., Cowiche, Wash. Fresh apples. 581,663, Oct. 27; Serial No. 641,369, published July 14, 1953. Class 46.

Craddock-Terry Shoe Corporation: *See*—
United Novelty Shoe Company.

Cromwell Paper Company, The, Chicago, Ill. Embossed laminated waterproof paper. 581,599, Oct. 27; Serial No. 637,363, published June 30, 1953. Class 37.

Crucible Steel Company of America: *See*—
Halcomb Steel Company.

Crucible Steel Company of America, Pittsburgh, Pa. Tool-steel. 41,265, re-renewed Oct. 6, 1953. O. G. Oct. 27. Class 14.

Cummins Engine Company, Inc., Columbus, Ind. Trade periodicals, circulars and pamphlets. 581,597, Oct. 27; Serial No. 637,039, published July 21, 1953. Class 38.

Cutler Growers Exchange, Cutler, Calif. Fresh vegetables. 581,492, Oct. 27; Serial No. 620,497, published July 21, 1953. Class 46.

Dainty Maid Shoe Company, Inc., Haverhill, Mass. Women's shoes. 581,589, Oct. 27; Serial No. 636,001, published May 12, 1953. Class 39.

Danahy Packing Company, The, Buffalo, N. Y. Fresh and cured pork. 92,539, re-renewed July 15, 1953. O. G. Oct. 27. Class 46.

Davidson Corporation, Chicago, Ill. Small unwoven cellulose pads. 581,548, Oct. 27; Serial No. 631,150, published July 7, 1953. Class 29.

Davies, Rose & Company, Limited, Boston, Mass. Reconstructive tonics. 308,764, renewed Dec. 19, 1953. O. G. Oct. 27. Class 18.

Dayton Rubber Company, The, Dayton, Ohio. Printed attachable and detachable labels. 581,585, Oct. 27; Serial No. 635,636, published July 21, 1953. Class 38.

Demp-Nock Company, The: *See*—
Dempnock, John, Jr.

Dempnock, John, Jr., doing business as The Demp-Nock Company, Van Dyke, Mich. Pressure sensitive stencils. 581,590, Oct. 27; Serial No. 636,121, published July 14, 1953. Class 37.

Denver Equipment Company, Denver, Colo. Mining and mill machinery and equipment, amalgamation equipment, etc. 581,430, Oct. 27; Serial No. 538,105, published July 28, 1953. Class 23.

Detergent Products Corporation, to Tesco Chemicals, Inc., Atlanta, Ga. Cleaning compound. 300,284, renewed Jan. 10, 1953. O. G. Oct. 27. Class 52.

Detrex Corporation: *See*—
Detroit Rex Products Company.
Rex Products & Manufacturing Company.

Detroit Rex Products Company, by Detrex Corporation, Detroit, Mich. Machines for cleaning and degreasing metal parts and the like. 336,256, June 30, 1936. Republished Oct. 27. Class 23.

Detroit Rex Products Company, by Detrex Corporation, Detroit, Mich. Solvent for cleaning clothes and fabrics, etc. 373,027–8, Nov. 21, 1939. Republished Oct. 27. Class 52.

Detroit Rex Products Company, by Detrex Corporation, Detroit, Mich. Machines used for removing and recovering solvents from clothes and fabrics, etc. 385,145, Feb. 18, 1941. Republished Oct. 27. Class 23.

Detroit Rex Products Company, by Detrex Corporation, Detroit, Mich. Machines used for cleaning clothes and fabrics. 385,146, Feb. 18, 1941. Republished Oct. 27. Class 23.

Detroit Rex Products Company, by Detrex Corporation, Detroit, Mich. Solvent material used to extract oil from vegetable matter. 400,101, Feb. 16, 1943. Republished Oct. 27. Class 6.

Dickerson, Walker T., Company, The, Columbus, Ohio. Women's and misses' shoes. 581,513, Oct. 27; Serial No. 625,345, published July 21, 1953. Class 39.

Doho Chemical Corporation, New York, N. Y. Preparation for the relief of throat ailments. 581,660, Oct. 27; Serial No. 641,278, published July 28, 1953. Class 18.

Dominion Tar & Chemical Company, Limited, Montreal, Quebec, Canada, assignee of Standard Chemical Company, Limited. Sodium carboxy methyl cellulose used as a thickening agent for foodstuffs. 581,448, Oct. 27; Serial No. 592,949, published July 14, 1953. Class 46.

Douglas, W. L., Shoe Company, Nashville, Tenn. Boots and shoes. 581,582, Oct. 27; Serial No. 635,412, published July 21, 1953. Class 39.

Dri-Flo Manufacturing Co., Hazel Park, Mich. Fountain pens, fountain brush pens, and nibs for fountain pens. 581,503, Oct. 27; Serial No. 623,186, published May 26, 1953. Class 37.

Droge, Karl, Ice Cream, Brooklyn, N. Y. Ice cream. 581,477, Oct. 27; Serial No. 616,086, published May 26, 1953. Class 46.

Duluth Universal Milling Company, Duluth, Minn. Durum wheat flour. 581,464, Oct. 27; Serial No. 607,665, published July 14, 1953. Class 46.

Duro-Test Corporation, North Bergen, N. J. Incandescent and fluorescent lamps. 581,712, Oct. 27; Serial No. 605,733. Class 21.

Eagle-Ottawa Leather Company, Grand Haven, Mich. Leather. 581,731, Oct. 27; Serial No. 642,627. Class 1.

Eastern Outfitting Co., of Portland, Oregon, Portland, Oreg. Women's, misses', and girls' hosiery, slips, etc. 376,302, Mar. 19, 1940. Restricted. O. G. Oct. 27. Class 39.

Easton National Bank, The, executor: *See*—
Van Doren, Palmer S.

Edmundson-Duhe Rice Mill Company, Inc., Rayne, La. Milled rice. 581,650, Oct. 27; Serial No. 640,789, published July 21, 1953. Class 46.

Embro Popcorn Company: *See*—
Mangelsdorf, Ed. F., & Bro., Inc.

Enterprise Manufacturing Company of Pennsylvania, The, Philadelphia, Pa. Meat and vegetable chopper. 581,729, Oct. 27; Serial No. 638,528. Class 23.

Escondido Lemon Association, Escondido, Calif. Fresh citrus fruit. 579,240, Sept. 1, 1953. Corrected. O. G. Oct. 27. Class 46.

Escondido Orange Association, Escondido, Calif. Fresh citrus fruits. 579,241–2, Sept. 1, 1953. Corrected. O. G. Oct. 27. Class 46.

Eskimo Pie Corporation, New York and Brooklyn, N. Y., to Eskimo Pie Corporation, Bloomfield, N. J. Ice cream powders and ice powders. 306,465, renewed Sept. 19, 1953. O. G. Oct. 27. Class 46.

Etelberto Albuerne y Bravo, Aviles, Spain. Preserved fish. 308,644, renewed Dec. 12, 1953. O. G. Oct. 27. Class 46.

Ezy Products: *See*—
Mudd, Stephen L.

Family Shopper, Inc., New York, N. Y. Periodical publications. 581,573, Oct. 27; Serial No. 633,973, published July 14, 1953. Class 38.

Farmers' Rice Growers Cooperative, San Francisco, Calif. Rice. 581,588, Oct. 27; Serial No. 635,910, published Mar. 10, 1953. Class 46.

Fearn Foods Inc., Franklin Park, Ill. Soups and soup bases and soup concentrates, etc. 581,476, Oct. 27; Serial No. 615,824, published July 14, 1953. Class 46.

Fellows Medical Manufacturing Company, Inc., New York, N. Y. Preparation of chloral hydrate. 581,632, Oct. 27; Serial No. 639,422, published July 28, 1953. Class 18.

Ferber Corporation, Englewood, N. J. Ball point pens, fountain pens, style type pens, etc. 581,561, Oct. 27; Serial No. 632,362, published July 21, 1953. Class 37.

Fingerprint, Incorporated, Milwaukee, Wis. Fingerprint machine and apparatus. 581,569, Oct. 27; Serial No. 633,451, published July 14, 1953. Class 26.

Firmenich & Co., assignor to Firmenich, Incorporated, New York, N. Y. Natural and synthetic food flavors. 581,458, Oct. 27; Serial No. 603,052, published July 28, 1953. Class 46.

Firmenich, Incorporated, assignee: *See*—
Firmenich & Co.

Flagg-Utica Corporation: *See*—
Gardiner-Warring Company, Inc.

Fleming Co., Incorporated, The, Topeka, Kans. Coffee. 581,584, Oct. 27; Serial No. 635,529, published July 7, 1953. Class 46.

Flotill Products, Inc., Stockton, Calif. Canned dietetic food products. 581,556, Oct. 27; Serial No. 631,858, published July 14, 1953. Class 46.

Flour Mills of America, Inc., doing business under the style name of Kansas Flour Mills Company, Kansas City, Mo. Wheat flour. 581,502, Oct. 27; Serial No. 622,786, published July 21, 1953. Class 46.

Flox Co., The, by The Flox Company, Inc., Minneapolis, Minn. Boiler cleaning compounds and water softeners. 196,268, Mar. 17, 1925. Republished Oct. 27. Classes 6 and 52.

Flox Company, Inc., The: *See*—
Flox Co., The.

Ford Motor Company Limited, London, England. Transportation vehicles. 581,586, Oct. 27; Serial No. 635,641, published July 28, 1953. Class 19.

Free, R. G., doing business under the style name of Pet Food Packers, Washington Court House, Ohio. Animal feeds. 581,687, Oct. 27; Serial No. 642,810, published July 21, 1953. Class 46.

French, Shriner & Urner Manufacturing Co., Boston, Mass. Boots and shoes. 541,472, Oct. 27; Serial No. 613,061, published July 21, 1953. Class 39.

Fries, Ruth K., assignee: *See*—
Tanners' Council of America, Inc.

Fruit Products Corporation, New York, N. Y. Empty bags. 581,551, Oct. 27; Serial No. 631,413, published July 28, 1953. Class 2.

Fruit Products Corporation, New York, N. Y. Frozen confections, and liquid concentrates. 581,572, Oct. 27; Serial No. 633,844, published July 14, 1953. Class 46.

Fuertes, Luis R., doing business under the name of Sharktoon Boats Manufacturing Co., San Juan, Puerto Rico. Pleasure boats. 581,471, Oct. 27; Serial No. 612,535, published July 28, 1953. Class 19.

Fyfe, R. H., & Co., Detroit, Mich. Men's, women's, and children's boots, shoes, and slippers. 581,684, Oct. 27; Serial No. 642,509, published July 21, 1953. Class 39.

G. H. S. Corporation, New York, N. Y. Hair nets. 581,540, Oct. 27; Serial No. 630,594, published Dec. 2, 1952. Class 39.

Gardiner-Warring Company, Inc., Florence, Ala., to Flagg-Utica Corporation, Utica, N. Y. Men's, women's and children's sweaters; etc. 304,343, renewed July 4, 1953. O. G. Oct. 27. Class 39.

Gardiner-Warring Company, Inc., Florence, Ala., to Flagg-Utica Corporation, Utica, N. Y. Men's and women's sweaters and men's and women's sweat shirts. 304,346, renewed July 4, 1953. O. G. Oct. 27. Class 39.

Geigy Company, Inc., New York, N. Y. Dyestuffs, lakes and chemical products. 307,766, Oct. 31, 1933. Republished Oct. 27. Class 6.

General Foods Corporation: *See*—
Postum Cereal Co., Limited.

General Mills, Inc., Wilmington, Del., and Minneapolis, Minn. Balloons adapted to suspend meteorological and other scientific and signalling instruments. 581,500, Oct. 27; Serial No. 622,742, published July 21, 1953. Class 26.

Germain's, Inc., Los Angeles, Calif. Lawn grass seed. 581,648, Oct. 27; Serial No. 640,678, published July 28, 1953. Class 1.

Gilbert Paper Company, Menasha, Wis. Bond paper and copy and writing paper. 581,596, Oct. 27; Serial No. 636,929, published July 14, 1953. Class 37.

Gillette Company, The, doing business under the name and style of The Toni Company, Boston, Mass. Shampoo. 581,574, Oct. 27; Serial No. 634,589, published July 28, 1953. Class 52.

Gillette Rubber Company, Eau Claire, Wis., by United States Rubber Company, New York, N. Y. Bicycle tires and tubes. 306,247, Sept. 12, 1933. Republished Oct. 27. Class 35.

Glatz, Felix, Import Co., Inc., New York, N. Y. Printed chart and indicating device thereon. 581,562, Oct. 27; Serial No. 632,371, published July 21, 1953. Class 38.

Gold Cross Organization, The: *See*—
Interstate Bakeries Corporation.

Golden Grain Macaroni Co.: *See*—
Gragnano Products, Inc.

Goldthwaite, Frank, doing business as Goldthwaite's Texas Toro Co., Fort Worth, Tex. Fertilizer. 581,734, Oct. 27; Serial No. 646,667. Class 10.

Goldthwaite's Texas Toro Co.: *See*—
Goldthwaite, Frank.

Good Humor Corporation: *See*—
Good Humor Corporation of America.

Good Humor Corporation of America, Cleveland, Ohio, by Good Humor Corporation, Brooklyn, N. Y. Periodicals. 301,205, Feb. 21, 1933. Republished Oct. 27. Class 38.

Gragnano Products, Inc., San Francisco, to Golden Grain Macaroni Co., San Leandro, Calif. Spaghetti, macaroni, and egg noodles. 308,124, renewed Nov. 21, 1953. O. G. Oct. 27. Class 46.

Graham, M. L., Salt Lake City, Utah, Seattle, Wash., and Portland, Oreg., to M. L. Graham, Seattle, Wash. A special kind of fired chicken sandwich, chicken pie, etc. 304,047–8, renewed June 20, 1953. O. G. Oct. 27. Class 46.

Grant Toy Co., Van Nuys, Calif. Doll clothes. 581,691, Oct. 27; Serial No. 644,415, published July 21, 1953. Class 22.

Gretter Features: *See*—
Gretter, Joseph C.

Gretter, Joseph C., doing business as Gretter Features, Wilton and Norwalk, Conn. Newspaper feature. 581,644, Oct. 27; Serial No. 640,211, published July 14, 1953. Class 38.

Griffith Laboratories, Inc., The, Chicago, Ill. Canned ham. 581,558, Oct. 27; Serial No. 632,030, published July 28, 1953. Class 46.

Grosjean, C. E., Rice Milling Co., San Francisco, Calif. Rice. 581,443, Oct. 27; Serial No. 585,278, published July 14, 1953. Class 46.

Guemer, A., Inc., Hoboken, N. J. Beerstone remover for use in cleaning tanks or the like, etc. 581,598, Oct. 27; Serial No. 637,179, published July 28, 1953. Class 52.

Haft, Morris W., & Brothers, by The House of Swansdown, Inc., New York, N. Y. Ladies' and misses' coats, suits, jackets, etc. 400,460, Mar. 9, 1943. Republished Oct. 27. Class 39.

Haft, Morris W., & Brothers, by The House of Swansdown, Inc., New York, N. Y. Ladies' and misses' coats, suits, jackets, etc. 400,907, Apr. 6, 1943. Republished Oct. 27. Class 39.

Haft, Morris W., & Brothers, by The House of Swansdown, Inc., New York, N. Y. Ladies' and misses' coats, suits, jackets, etc. 403,935, Oct. 26, 1943. Republished Oct. 27. Class 39.

Haft, Morris W., & Brothers, by The House of Swansdown, Inc., New York, N. Y. Ladies' and misses' coats, suits, jackets, etc. 406,520, Apr. 11, 1944. Republished Oct. 27. Class 39.

Haft, Morris W., & Brothers, Inc., by The House of Swansdown, Inc., New York, N. Y. Woolen piece goods. 350,271, Sept. 21, 1937. Republished Oct. 27. Class 42.

Haft, Morris W., & Bros., Inc., by The House of Swansdown, Inc., New York, N. Y. Women's and misses' suits and coats. 393,113, Jan. 27, 1942. Republished Oct. 27. Class 39.

Haik, Victor E., Mexico City, Mexico. Brassières and garter belts. 581,341, Oct. 27; Serial No. 630,673, published July 14, 1953. Class 39.

Halcomb Steel Company, Syracuse, N. Y., to Crucible Steel Company of America, Pittsburgh, Pa. Tool-steel. 93,847, re-renewed Oct. 21, 1953. O. G. Oct. 27. Class 14.

Halverson, Charles, trading and doing business as Big Gain Products, West Union, Iowa, Mankato, Minn., and De Kalb, Ill. Livestock and poultry feeds. 581,494, Oct. 27; Serial No. 621,061, published July 21, 1953. Class 46.

Hamilton Watch Company, Lancaster, Pa. Watches. 581,520, Oct. 27; Serial No. 627,262, published June 9, 1953. Class 27.

Haniel, Franz, & Cie. G. m. b. H. Zweigniederlassung Mannheim, Mannheim, Germany. Fertilizers. 302,928, renewed May 2, 1953. O. G. Oct. 27. Class 10.

Hartman, Philip F., doing business as Sno-Frozen Products Co., Redwood City, Calif. Processed fresh frozen baby foods. 581,493, Oct. 27; Serial No. 621,265, published May 26, 1953. Class 46.

Harzfeld's, Inc., Kansas City, Mo. Children's shoes. 307,820, Nov. 7, 1933. Republished Oct. 27. Class 39.

Haslam, Fred. & Co., Inc., Brooklyn, N. Y. Dissecting, post mortem and general operating instruments. 581,730, Oct. 27; Serial No. 638,717. Class 44.

Haver, Gabriel D., Chula Vista, Calif. Locking devices. 581,434, Oct. 27; Serial No. 569,971, published July 28, 1953. Class 25.

Heiner, William G.: *See*—
Waters, Robert S., and Heiner.

Hempel's, J. C., Skibsfarvefabrik A/S, Copenhagen, Denmark. All sorts of paints and varnishes. 581,532, Oct. 27; Serial No. 629,799, published July 14, 1953. Class 16.

Hempel's, J. C., Skibsfarvefabrik A/S, Copenhagen, Denmark. All sorts of paints and varnishes. 581,536, Oct. 27; Serial No. 630,192, published July 14, 1953. Class 16.

Heyman, S. & S., Ltd., New York, N. Y. Meats and meat products, and dressed fowl. 581,441, Oct. 27; Serial No. 582,353, published July 14, 1953. Class 46.

Hocking, John E., assignee: *See*—
Van Doren, Palmer S.

Hocking, John E., administrator, c. t. a.: *See*—
Van Doren, Palmer S.

Hoffman Radio Corporation, Los Angeles, Calif. Television receiving sets. 581,733, Oct. 27; Serial No. 645,753. Class 21.

Horii Toshado Kabushiki-Kaisha, Chiyoda-ku, Tokyo, Japan. Stencil sheets and stencil papers. 581,603–4, Oct. 27; Serial Nos. 637,633–4, published June 30, 1953. Class 37.

House of Swansdown, Inc., The: *See*—
Haft, Morris W., & Brothers.
Haft, Morris W., & Bros., Inc.

House of Worsted-Tex, Inc.: *See*—
Cohen, Goldman & Co., Inc.

Howard, John B., Marblehead, Mass., trustee of Boston Vacuum Trust, Conduit. 581,462, Oct. 27; Serial No. 607,429, published May 12, 1953. Class 23.

Hurd, George B., Inc., New York, N. Y. Writing paper and envelopes. 581,429, Oct. 27; Serial No. 537,592, published June 16, 1953. Class 37.

Industrial Rubber Products, Inc., Des Moines, Iowa. Natural and synthetic air-curing liquid rubber. 581,633, Oct. 27; Serial No. 639,473, published July 28, 1953. Class 1.

Industrial Soap Company, St. Louis, Mo. Cleaning compositions. 581,728, Oct. 27; Serial No. 635,417. Class 52.

Institute of Radio Engineers, Inc., The, New York, N. Y. Publications. 581,678, Oct. 27; Serial No. 642,144, published July 21, 1953. Class 38.

International Telephone and Telegraph Corporation, New York, N. Y. Descriptive brochures and handbooks. 581,615, Oct. 27; Serial No. 638,489, published July 14, 1953. Class 38.

Interstate Bakeries Corporation, Kansas City, Mo., doing business as The Gold Cross Organization, Chicago, Ill. Health counselling and care service providing for periodic medical examinations, etc. 581,701, Oct. 27; Serial No. 621,965, published July 21, 1953. Class 100.

Isaly Dairy Company, The, Youngstown, Ohio. Pasteurized, homogenized, skim milk. 581,488, Oct. 27; Serial No. 620,103, published July 14, 1953. Class 46.

J & W Steel Products, Inc., Bessemer, Ala. Children's swings. 581,671, Oct. 27; Serial No. 641,681, published July 21, 1953. Class 22.

Jablow Manufacturing Co., Inc., New York, N. Y. Lockets, neck chains, crosses, etc. 581,510, Oct. 27; Serial No. 625,106, published June 9, 1953. Class 28.

Jacoby-Bender, Inc., New York, N. Y. Watch bracelets. 581,636, Oct. 27; Serial No. 639,646, published June 9, 1953. Class 28.

Jordan Lumber Co., Memphis, Tenn. Chemical treatment of lumber. 581,707, Oct. 27; Serial No. 639,474, published July 28, 1953. Class 106.

Joslyn Mfg. and Supply Co., Chicago, Ill. Complete pole line equipment, circuit protective equipment and parts thereof, etc. 581,435, Oct. 27; Serial No. 372,744, published July 14, 1953. Class 21.

Julian & Kokenge Co., The: *See*—
Perth Shoe Company Limited.

Kabo, Inc., Chicago, Ill. Brassières, foundation garments, girdles, etc. 581,523, Oct. 27; Serial No. 628,209, published July 21, 1953. Class 39.

Kabo, Inc., Chicago, Ill. Girdles. 581,685, Oct. 27; Serial No. 642,558, published July 21, 1953. Class 39.

Kansas Flour Mills Company: *See*—
Flour Mills of America, Inc.

Kendall Company, The, Boston, Mass. Play nurse first aid kit. 581,690, Oct. 27; Serial No. 644,237, published July 28, 1953. Class 22.

Keuffel & Esser Company, Hoboken, N. J. Glass tracing cloth and glass reproduction cloth. 581,490, Oct. 27; Serial No. 620,345, published July 14, 1953. Class 37.

Kilgore, Inc.: *See*—
Kilgore Manufacturing Company, The.

Kilgore Manufacturing Company, The, by Kilgore, Inc., Westerville, Ohio. Paper caps in rolls for toy pistols. 331,706, Jan. 21, 1936. Republished Oct. 27. Class 9.

Kilgore Manufacturing Company, The, by Kilgore, Inc., Westerville, Ohio. Paper caps in rolls for toy pistols. 332,406, Feb. 11, 1936. Republished Oct. 27. Class 9

King, John P., Manufacturing Co., The, Augusta, Ga. Sheets and pillow cases. 308,796, renewed Dec. 19, 1953. O. G. Oct. 27. Class 42.

Kingston Products Corporation, Kokomo, Ind. Automobile heaters. 581,493, Oct. 27; Serial No. 620,508, published July 28, 1953. Class 19.

Kirby, Herbert R., doing business as Kirby Industries, Temple City, Calif. Roofing mops and mop-like applicators. 581,530, Oct. 27; Serial No. 629,611, published July 7, 1953. Class 29.

Kirby Industries: *See*—
Kirby, Herbert R.

Kirk's, Inc., Oklahoma City, Okla. Men's and women's shoes. 581,501, Oct. 27; Serial No. 622,748, published July 21, 1953. Class 39.

Knowles, James H., Centralia, Wash. Dressed poultry. 581,470 Oct. 27; Serial No. 612,127, published July 14, 1953. Class 46.

Kodak: *See*—
Walker, Edward C.

Kremers-Urban Company, Milwaukee, Wis. Vasodilator designed for use in treatment of Raynaud's disease, etc. 581,515, Oct. 27; Serial No. 625,741, published July 28, 1953. Class 18.

Lakeside Central Company, Chicago, Ill. Writing tablets, note and composition books, etc. 581,616, Oct. 27; Serial No. 638,542, published July 14, 1953. Class 37.

Lakeside Central Company, Chicago, Ill. Mailing envelopes. 581,617, Oct. 27; Serial No. 638,543, published July 14, 1953. Class 37.

Land O'Frost Products, Chicago, Ill. Roast beef and barbeque sauce, roast beef and gravy, etc. 581,478, Oct. 27; Serial No. 616,209, published July 21, 1953. Class 46.

Lasko Strap Company, New York, N. Y. Wrist-watch straps. 581,517, Oct. 27; Serial No. 626,253, published June 9, 1953. Class 28.

Lavery & Sanders, Philadelphia, Pa. Liquid detergents. 581,715, Oct. 27; Serial No. 617,619. Class 52.

Leeds Ltd. Coats, Inc.: *See*—
Siegel Bros. Garment Corp.
Siegel Bros. Kiki Maid Coats, Inc.

Leidsche Wolspinnerij N. V., Leiden, Netherlands. Woolen, cotton, and mixed knitting yarns. 581,560, Oct. 27; Serial No. 632,253, published July 14, 1953. Class 43.

Leitz, E., Inc., New York, N. Y. Periodic publication. 581,545, Oct. 27; Serial No. 631,109, published July 14, 1953. Class 38.

Lenthéric Incorporated, New York, N. Y. Spiral combs. 581,437, Oct. 27; Serial No. 578,982, published July 14, 1953. Class 40.

Lepetit S. p. A., Milan, Italy. Chemical-pharmaceutical products. 581,483, Oct. 27; Serial No. 618,586, published July 7, 1953. Class 18.

Levi Strauss & Company, San Francisco, Calif. Men's, women's, and children's overalls, jackets, outer shirts, etc. 581,610, Oct. 27; Serial No. 638,273, published July 21, 1953. Class 39.

Lewis, Samuel L., doing business under the name of Brunswick Quick Freezer, Brunswick, Ga. Fresh frozen shrimp and fresh breaded frozen shrimp. 581,505, Oct. 27; Serial No. 623,970, published Jan. 13, 1953. Class 46.

Lif-Lik Lure Co., assignor to D. D. McDonald, Kansas City, Mo. Fishing tackle. 581,716, Oct. 27; Serial No. 617,844. Class 22.

Lilyette Brassiere Co., Inc., New York, N. Y. Brassières. 581,682, Oct. 27; Serial No. 642,412, published July 21, 1953. Class 39.

Litt & Co., New York, N. Y. Women's, misses', and juniors' dresses, blouses, skirts, etc. 581,641, Oct. 27; Serial No. 639,943, published July 14, 1953. Class 39.

Lockwedge Shoe Corporation of America, Inc.: *See*—
Perth Shoe Company Limited.

Los Angeles Smoking & Curing Co., Los Angeles, Calif. Canned, spiced, smoked, salted and barbecued fish, herring, fresh salmon roe caviar, etc. 581,677, Oct. 27; Serial No. 642,038, published July 14, 1953. Class 46.

Lowe Brothers Company, The, Dayton, Ohio. Paints of ready mixed form, varnishes, enamels of the paint or varnish type, etc. 305,662, renewed Aug. 22, 1953 O. G. Oct. 27. Class 16.

M. & N. Cigar Manufacturers, Inc., Cleveland, Ohio Cigars. 306,769, renewed Sept. 26, 1953. O. G. Oct. 27 Class 17.

Macy, R. H., & Co., Inc., New York, N. Y. Women's arch support shoes. 308,139, renewed Nov. 21, 1953. O. G. Oct. 27. Class 39.

Maggioni, L. P., & Company, Savannah, Ga. Canned oysters and canned shrimp. 581,634, Oct. 27; Serial No. 639,483, published July 21, 1953. Class 46.

Maggioni, L. P., & Company, Savannah, Ga. Canned, fresh, and fresh frozen vegetables. 581,694, Oct. 27; Serial No. 645,248, published July 21, 1953. Class 46.

Magikist Service Corporation, Chicago, Ill. Cleaning, dyeing, renovating of carpets, rugs and the like. 581,607, Oct. 27; Serial No. 583,542, published July 28, 1953. Class 103.

Maginnis, Charles M., doing business as Charles of New Orleans, Fort Worth, Tex. Salad dressings and remoulade sauce. 581,481, Oct. 27; Serial No. 617,620, published July 14, 1953. Class 46.

Magnet Cove Barium Corporation, Bellaire, Tex. Cellophane flakes for use in drilling mud. 581,534, Oct. 27; Serial No. 629,904, published July 28, 1953. Class 1.

Majestic Fuel Oil Company, Inc., Brooklyn, N. Y. Thermally-responsive safety switch for cutting off boiler fuel supply. 581,496, Oct. 27; Serial No. 621,361, published July 21, 1953. Class 26.

Mallon Chemical Corp., New York, N. Y. Medicines for the treatment of rectal and vaginal disorders. 581,661, Oct. 27; Serial No. 641,313, published July 28, 1953. Class 18.

Mangeledorf, Ed. F., & Bro., Inc., doing business under the name and style Embro Popcorn Company, St. Louis, Mo. Unpopped popcorn, popcorn popping oil, popcorn salt, etc. 581,546, Oct. 27; Serial No. 631,112, published July 14, 1953. Class 46.

Manhattan Shirt Company, The, New York, N. Y. Buttons. 581,669, Oct. 27; Serial No. 641,625, published July 14, 1953. Class 40.

Marion Creamery & Poultry Company, Portland, Oreg. Frozen berries and frozen vegetables. 581,485, Oct. 27; Serial No. 618,894, published July 14, 1953. Class 46.

Marley Company, Inc., The, Kansas City, Kans. Drive shaft couplings. 581,721, Oct. 27; Serial No. 621,106. Class 23.

Martin-Senour Company, The, Chicago, Ill. Ready mixed, custom mixed and semi-paste paints, enamels, stains, etc. 581,613, Oct. 27; Serial No. 638,427, published July 14, 1953. Class 16.

Martinson, Jos., & Co., Inc., New York, N. Y. Coffee. 581,583, Oct. 27; Serial No. 635,481, published July 14, 1953. Class 46.

Marzetti, T., Company, Columbus, Ohio. Prepared salad dressings and canned soups. 581,683, Oct. 27; Serial No. 642,482, published July 21, 1953. Class 46.

Mathieson Chemical Corporation, assignee: *See*—
Balu, Joseph.
Squibb, E. R., & Sons.

Mathieson Chemical Corporation, New York, N. Y. Preparation for the prevention and treatment of animal scours. 581,667, Oct. 27; Serial No. 641,561, published July 28, 1953. Class 18.

McDonald, Don D., assignee: *See*—
Lif-Lik Lure Co.

McNeil Laboratories, Incorporated, Philadelphia, Pa. Vitamin preparation. 581,512, Oct. 27; Serial No. 625,285, published July 28, 1953. Class 18.

Meat Industry Suppliers, Inc., Chicago, Ill. Seasoning. 581,552, Oct. 27; Serial No. 631,430, published July 14, 1953. Class 46.

Merck & Co., Inc.: *See*—
Sharp & Dohme Incorporated.

Meredith Publishing Company, Des Moines, Iowa. Section in a periodic publication. 581,621, Oct. 27; Serial No. 639,121, published July 21, 1953. Class 38.

Meredith Publishing Company, Des Moines, Iowa. Section in a periodic publication. 581,622–3, Oct. 27; Serial Nos. 639,123–4, published July 21, 1953. Class 38.

Meredith Publishing Company, Des Moines, Iowa. Section in a periodic publication. 581,624–6, Oct. 27; Serial Nos. 639,126–8, published July 21, 1953. Class 38.

Meredith Publishing Company, Des Moines, Iowa. Section in a periodic publication. 581,627–9, Oct. 27; Serial Nos. 639,130–2, published July 21, 1953. Class 38.

Meredith Publishing Company, Des Moines, Iowa. Section in a periodic publication. 581,630, Oct. 27; Serial No. 639,138, published July 21, 1953. Class 38.

Meyer, Eugene: *See*—
Washington Post Publishing Company, The.

Mid-States Gummed Paper Co., Chicago, Ill. Gummed papers. 581,524, Oct. 27; Serial No. 628,286, published June 30, 1953. Class 37.

Miller Electric Manufacturing Co., Inc., Appleton, Wis. House organ. 581,679, Oct. 27; Serial No. 642,237, published July 21, 1953. Class 38.

Mills Manufacturing Corporation, New York, N. Y. Shoulder strap cushion attachment. 581,436, Oct. 27; Serial No. 576,345, published July 14, 1953. Class 40.

Mills Manufacturing Corporation, New York, N. Y. Sanitary belts. 581,487, Oct. 27; Serial No. 619,306, published May 13, 1952. Class 44.

Moriant (de la Marne), Societe Anonyme, Reims, Paris, France. Sparkling wines and champagne wines. 308,318, renewed Nov. 28, 1953. O. G. Oct. 27. Class 47.

Mother's Food Products, Inc., Newark, N. J. Sauerkraut. 581,646, Oct. 27; Serial No. 640,470, published July 21, 1953. Class 46.

Mudd, Stephen L., trading as Esy Products, Atlanta, Ga. Upholstery cleaner. 581,724, Oct. 27; Serial No. 628,418. Class 52.

Mudd, Stephen L., trading as Esy Products, Atlanta, Ga. General household cleaner. 581,725, Oct. 27; Serial No. 628,419. Class 52.

Municipal Street Sign Co., Inc., New York, to Municipal Street Sign Co., Inc., Brooklyn, N. Y. Electric traffic lamps and beacons, and visual electrical signals and signs. 309,000, renewed Dec. 26, 1953. O. G. Oct. 27. Class 21.

Namm-Loeser's, Inc., assignee: *See*—
Namm's, Inc.

Namm's, Inc., assignor to Namm-Loeser's, Inc., Brooklyn, N. Y. Men's and boys' shoes, leather and wool gloves, leggings, etc. 581,452, Oct. 27; Serial No. 600,069, published Apr. 1, 1952. Class 39.

Napper Company, Incorporated, Winnetka, Ill., now by change of name Nappies, Incorporated. Baby's terry cloth play garment set. 581,450, Oct. 27; Serial No. 597,157, published Mar. 25, 1952. Class 39.

Nappies, Incorporated: *See*—
Napper Company, Incorporated.

National Bellas Hess, Inc., North Kansas City, Mo. Men's, women's, and girls' shoes and slippers. 581,529, Oct 27; Serial No. 629,450, published July 21, 1953. Class 39.

National Board of the Young Women's Christian Association of the U. S. A., The, New York, N. Y., by change of name from The National Board of the Young Women's Christian Associations of the United States of America. Building a fellowship of women and girls. 581,700, Oct. 27; Serial No. 519,770, published July 21, 1953. Class 100.

National Board of the Young Women's Christian Associations of the United States of America, The: *See*—
National Board of the Young Women's Christian Association of the U. S. A., The.

National Radiator Company, The: *See*—
Waters, Robert S., and Heiner.

National Radiator Corporation, The: *See*—
Waters, Robert S., and Heiner.

National Sales, Inc., Wichita, Kans. Air entraining agent. 581,726, Oct. 27; Serial No. 634,701. Class 6.

Neltake, Raymond A., Estherville, Iowa. Cylindrical manually operable reel, etc.; said reel being adapted for mounting on an open-top truck, etc. 581,718, Oct. 27; Serial No. 619,030. Class 19.

New Jersey Machine Corporation, Hoboken, N. J. Labeling machines. 581,432, Oct. 27; Serial No. 549,941, published June 30, 1953. Class 23.

Nixon & Company (Nebraska), Omaha, Nebr. Molasses stock feed. 581,444, Oct. 27; Serial No. 587,578, published July 14, 1953. Class 46.

Norcross, Inc., New York, N. Y. Greeting cards, printed greeting folders, printed seals, etc. 581,547, Oct. 27; Serial No. 631,118, published July 14, 1953. Class 38.

Norris Inc, Atlanta, Ga. Candy. 581,591, Oct. 27; Serial No. 636,145, published July 28, 1953. Class 46.

North American Aviation, Inc., Los Angeles, Calif. Aircraft. 581,680, Oct. 27; Serial No. 642,364, published July 28, 1953. Class 19.

Northern Milling Company, Wausau, Wis. Dairy, cattle, stock, swine, pigeon, and horse feeds: calf meal, etc. 581,522, Oct. 27; Serial No. 627,766, published July 28, 1953. Class 46.

Nusrala-Bowen Shoe Co., Inc., St. Louis, Mo. Women's shoes. 581,553, Oct. 27; Serial No. 631,678, published July 21, 1953. Class 39.

Oneida Ltd., Oneida and Sherrill, N. Y. Silverware or tableware storage chests. 581,563, Oct. 27; Serial No. 632,486, published July 28, 1953. Class 2.

Orville Simpson Company, The, Cincinnati, Ohio. Millingmachines. 93,111, re-renewed Aug. 19, 1953. O. G. Oct. 27. Class 23.

Parents' Institute, Inc., The, New York, N. Y. Magazine. 581,637–8, Oct. 27; Serial Nos. 639,710–11, published July 14, 1953. Class 38.

Parents' Institute, Inc., The, New York, N. Y. Magazine. 581,675, Oct. 27; Serial No. 641,960, published July 14, 1953. Class 38.

Park Adams Incorporated, Plainfield, N. J. Nose drops. 581,550, Oct. 27; Serial No. 631,393, published July 28, 1953. Class 18.

Pell-Bari Farms, Inc., Woodstock, Ill. Partially printed record books. 581,600, Oct. 27; Serial No. 637,397, published July 14, 1953. Class 37.

Pennsylvania Refining Company, Butler, Pa. Self-emulsifying, highly refined petroleum oil used to eliminate and inhibit the growth of secondary leaves on tobacco plants. 581,577, Oct. 27; Serial No. 635,052, published July 28, 1953. Class 6.

Perlite of Houston, Inc., Houston, Tex. Expanded volcanic glass in a semi-powder state. 581,482, Oct. 27; Serial No. 618,124, published July 14, 1953. Class 1.

Perth Shoe Company Limited, Perth, Ontario, Canada, assignor to Lockwedge Shoe Corporation of America, Inc., to The Julian & Kokenge Co., Columbus, Ohio. Boots, shoes, slippers, etc. 308,909, renewed Dec. 26, 1953. O. G. Oct. 27. Class 39.

Pessl, Helene, Inc., New York, N. Y. Comb, mirror and brush sets, and comb and hand mirror sets. 581,664, Oct. 27; Serial No. 641,378, published July 14, 1953. Class 40.

Pet Food Packers: *See*—
Free, R. G.

Pfeiffer, S., Manufacturing Company, St. Louis, Mo. Medicaments. 581,609, Oct. 27; Serial No. 638,095, published July 7, 1953. Class 18.

Pfister Jewelry Company: *See*—
Bock, Ferdinand H.

Phelan, Helen, doing business as Trade-A-Shoe, Flushing, N. Y. Shoes. 581,578, Oct. 27; Serial No. 635,053, published July 21, 1953. Class 39.

Pickwick Lingerie, New York, N. Y. Undergarments. 581,438, Oct. 27; Serial No. 579,449, published Oct. 10, 1950. Class 39.

Pillsbury Mills, Inc., Minneapolis, Minn. Prepared mixture, the principal ingredients of which are wheat flour, sugar, etc. 581,579, Oct. 27; Serial No. 635,054, published July 14, 1953. Class 46.

Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. 581,580–1, Oct. 27; Serial Nos. 635,055–6, published July 21, 1953. Class 46.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Paint brushes. 581,662, Oct. 27; Serial No. 641,327, published July 14, 1953. Class 29.

Plastic Art Toy Corporation of America, East Rutherford, N. J. Mechanically grooved phonograph records. 581,440, Oct. 27; Serial No. 580,673, published Aug. 22, 1950. Class 36.

Polarograph Laboratories of America, Berkeley, Calif., to E. H. Sargent & Co., Chicago, Ill. Electrical analyzing apparatus. 307,411, renewed Oct. 24, 1953. O. G. Oct. 27. Class 26.

Portable Electric Tools, Inc., Chicago, Ill. Electrically operated apparatus and tools. 581,722, Oct. 27; Serial No. 626,409. Class 21.

Postum Cereal Co., Limited, Battle Creek, Mich., to General Foods Corporation, New York, N. Y. Cereal breakfast-foods. 40,911, re-renewed Aug. 11, 1953. O. G. Oct. 27. Class 46.

Prismo Safety Corporation, Huntingdon, Pa. Materials sold as a unit—namely, paint and small light refracting materials. 581,593, Oct. 27; Serial No. 636,431, published July 14, 1953. Class 16.

Prosperity Company, Inc., The, Syracuse, N. Y. Garment presses, ironing presses, clothes washing machines, etc. 308,594, renewed Dec. 12, 1953. O. G. Oct. 27. Class 24.

Protective Coatings, Inc., Tampa, Fla. Liquid neoprene maintenance coatings, and vinyl protective coatings. 581,549, Oct. 27; Serial No. 631,176, published July 14, 1953. Class 16.

Pulford, George W. S., doing business under the firm name Chanticleer Food Products, Windsor, Ontario, Canada. Food beverage. 581,491, Oct. 27; Serial No. 620,382, published July 21, 1953. Class 46.

Rassenfoss Bag Company, Glenview, Ill. Plastic garment storage bag. 581,689, Oct. 27; Serial No. 643,186, published July 28, 1953. Class 2.

Reece, Edward M., New York, N. Y. Ladies' and men's gloves. 581,655, Oct. 27; Serial No. 640,962, published July 21, 1953. Class 39.

Reed and Barton Corporation, Taunton, Mass. Silverware. 581,723, Oct. 27; Serial No. 627,839. Class 28.

Reflectone Corporation, The, Stamford, Conn. Instruments for measuring thrust forces. 581,595, Oct. 27; Serial No. 636,805, published July 14, 1953. Class 26.

Reso, Harry, New York, N. Y. Artist's brushes. 581,459, Oct. 27; Serial No. 605,680, published July 14, 1953. Class 29.

Rex Products & Manufacturing Company, by Detrex Corporation, Detroit, Mich. Soap powders. 286,829, Sept. 8, 1931. Republished Oct. 27. Classes 6 and 52.

Rex Products & Manufacturing Company, by Detrex Corporation, Detroit, Mich. Cleaning solvents. 292,020, Mar. 1, 1932. Republished Oct. 27. Class 52.

Rex Products & Manufacturing Company, by Detrex Corporation, Detroit, Mich. Grease detergent and solvent cleaning compounds. 317,680, Oct. 2, 1934. Republished Oct. 27. Class 52.

Richmond Broom Company, Richmond, Va. Household brooms. 581,453, Oct. 27; Serial No. 600,509, published July 14, 1953. Class 29.

Richmond Engineering Co., Inc., Richmond, Va. Metal tanks. 581,557, Oct. 27; Serial No. 631,999, published July 28, 1953. Class 2.

Ric-Wil Company, The, Cleveland, Ohio. Ceramic tile, ceramic sewer and drain pipe, ceramic culvert pipe, etc. 581,567, Oct. 27; Serial No. 633,075, published July 28, 1953. Class 12.

Robbins, Allen, New York, N. Y. Cut flowers, foliage, and natural flowers. 581,619, Oct. 27; Serial No. 638,779, published July 28, 1953. Class 1.

Rothe, Walter F., doing business as The Universal Calendar Company, Washington, D. C. Wall calendars. 581,451, Oct. 27; Serial No. 597,168, published July 14, 1953. Class 38.

Rushmore, Walter C., doing business as Travel Kader and as American National Travelers Service, Denver, Colo. Travel services. 581,698, Oct. 27; Serial No. 594,996, published July 14, 1953. Class 105.

Safeway Stores, Incorporated, Oakland, Calif. Cookies. 581,665, Oct. 27; Serial No. 641,416, published July 28, 1953. Class 46.

Samuels Shoe Company, St. Louis, Mo. Ladies's and misses' shoes. 581,656, Oct. 27; Serial No. 640,965, published July 21, 1953. Class 39.

Santos, Manuel, doing business as Tosan Drug Co., New York, N. Y. Syrup for the relief of coughs and minor throat irritations. 581,533, Oct. 27; Serial No. 629,863, published Apr. 7, 1953. Class 18.

Sargent, E. H., & Co.: *See*—
Polarograph Laboratories of America.

Scanlan, Elizabeth S., doing business as Aeroplane Tackle Manufacturing Co., Denver, Colo. Fishing lures. 581,668, Oct. 27; Serial No. 641,576, published July 14, 1953. Class 22.

Schreiber, L. D., & Co., Inc., Chicago, Ill., and Green Bay, Wis. Cheese. 581,431, Oct. 27; Serial No. 549,670, published Dec. 26, 1950. Class 46.

Schutter Candy Company, Chicago, Ill. Candy bars. 581,693, Oct. 27; Serial No. 644,797, published July 21, 1953. Class 46.

Seaplant Chemical Corporation, New Bedford, Mass. Irish moss extractives in the pure state; Irish moss extractives with added potassium salts, used as ingredients in the manufacture of various confectionery products. 581,527, Oct. 27; Serial No. 629,258, published July 21, 1953. Class 46.

Sears, Roebuck and Co., Chicago, Ill. Fountain pens. 581,640. Oct. 27; Serial No. 639,842, published July 21, 1953. Class 37.

Security Milling Co., Inc., The, Abilene, Kans. Flour. 581,681, Oct. 27; Serial No. 642,374, published July 7, 1953. Class 46.

Seduttо Company, The, New York and Staten Island, assignor to 314 New Dorp. Lane Corp., New York, N. Y. Ice cream and frozen confections. 581,460, Oct. 27; Serial No. 605,688, published July 21, 1953. Class 46.

Selby Shoe Company, The, Portsmouth, Ohio. Women's shoes. 581,618, Oct. 27; Serial No. 638,667, published July 21, 1953. Class 39.

Selling Research, Inc., New York, N. Y. Marketing research and store auditing service. 581,702, Oct. 27; Serial No. 626,752, published July 14, 1953. Class 101.

Seydel Chemical Company, Nitro, W. Va., and Jersey City, N. J., by Seydel Chemical Company, Jersey City, N. J. Medicinal compound. 303,460, May 23, 1933. Republished Oct. 27. Class 18.

Sharktoon Boats Manufacturing Co.: *See*—
Fuertes, Luis R.

Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc. Medicinal preparation. 581,657, Oct. 27; Serial No. 641,211, published July 28, 1953. Class 18.

Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc. Hematinic preparation. 581,658, Oct. 27; Serial No. 641,212, published July 28, 1953. Class 18.

Shaver, Lula A., Middletown, N. Y. Books. 581,642, Oct. 27; Serial No. 639,961, published July 14, 1953. Class 38.

Shoe Corporation of America, Columbus, Ohio. Men's, women's, and children's shoes. 581,507, Oct. 27; Serial No. 624,505, published July 21, 1953. Class 39.

Siegel, A., & Sons Inc., New York, N. Y. Cigars. 307,704, renewed Oct. 31, 1953. O. G. Oct. 27. Class 17.

Siegel Bros. Garment Corp., by Leeds Ltd. Coats, Inc., New York, N. Y. Woolen and Worsted fabrics. 408,639, Aug. 22, 1944. Republished Oct. 27. Class 42.

Siegel Bros. Kiki Maid Koats Inc., by Leeds Ltd. Coats, Inc., New York, N. Y. Girls', juniors', misses', little women's, and ladies' suits and coats. 340,722, Nov. 17, 1936. Republished Oct. 27. Class 39.

Siegel Bros. Kiki Maid Koats, Inc., by Leeds Ltd. Coats, Inc., New York, N. Y. piece goods. 347,280, June 22, 1937. Republished Oct. 27. Class 42.

Singer-Cohen Inc., New York, N. Y. Brooches. 581,672, Oct. 27; Serial No. 641,696, published June 9, 1953. Class 28.

Smith, T. J., & Nephew, Limited, Hull, England. Medicated dressings. 581,576, Oct. 27; Serial No. 634,809, published July 28, 1953. Class 18.

Sno-Frozen Products Co.: *See*—
Hartman, Philip F.

Southern Biscuit Company: *See*—
Weston Biscuit Company Inc.

Southern Instruments Limited, Fernhill, Hawley, Camberley, Surrey, England. Assembled electronic amplifier units for use with measuring and testing instruments, etc. 581,489, Oct. 27; Serial No. 620,236, published July 14, 1953. Class 26.

Southwestern Milling Company, Inc., The, New York, N. Y. Wheat flour. 223,720, Feb. 8, 1927. Restricted. O. G. Oct. 27. Class 46.

Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Antianemic preparation. 581,456, Oct. 27; Serial No. 602,293, published Sept. 4, 1951. Class 18.

Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Hormonal preparations. 581,466, Oct. 27; Serial No. 608,259, published July 28, 1953. Class 18.

Staley, A. E., Manufacturing Company, Decatur, Ill. Periodical. 581,575, Oct. 27; Serial No. 634,763, published July 21, 1953. Class 38.

Standard Brands Incorporated, New York, N. Y. Coffee. 581,692, Oct. 27; Serial No. 644,464, published July 14, 1953. Class 46.

Standard Chemical Company, Limited: *See*—
Dominion Tar & Chemical Company, Limited.

Standard Floor Covering Co., Inc., Chicago, Ill. Linoleum paste, and water-proof rubber tile cement. 581,467, Oct. 27; Serial No. 608,959, published Mar. 3, 1953. Class 5.

Stanley Home Products, Inc., Westfield, Mass. Liquid material for cleansing the pores of the body. 581,537, Oct. 27; Serial No. 630,454, published July 28, 1953. Class 52.

Steak n Shake, Inc., Bloomington, Ill. Ground meat, baked ham, ground meat sandwiches, etc. 581,433, Oct. 27; Serial No. 567,054, published July 14, 1953. Class 46.

Stokely Brothers and Company, Louisville, Ky., to Stokely-Van Camp, Inc., Indianapolis, Ind. Canned vegetables. 305,310, renewed Aug. 15, 1953. O. G. Oct. 27. Class 46.

Stokely-Van Camp, Inc.: *See*—
Stokely Brothers and Company.

Stolich, Peter A.: *See*—
Stolich, Peter A., Inc.

Stolich, Peter A., Inc., by Peter A. Stolich, Salinas, Calif. Fresh lettuce. 332,948, Mar. 3, 1936. Republished Oct. 27. Class 46.

Stone-Tarlow Co., Inc., Brockton, Mass. Leather shoes. 334,082, Apr. 21, 1936. Republished Oct. 27. Class 39.

Strawsine, Fern A., doing business as Strawsine Manufacturing Company, Corunna, Mich. Trailer coach all weather roof ventilators. 581,473, Oct. 27; Serial No. 613,200, published July 28, 1953. Class 19.

Strawsine Manufacturing Company: *See*—
Strawsine, Fern A.

Sun Oil Company, Philadelphia, Pa. Servicing automobiles. 581,708, Oct. 27; Serial No. 579,321, published July 21, 1953. Class 103.

Surpass Leather Company, Philadelphia, Pa. Leather. 581,564, Oct. 27; Serial No. 632,540, published July 28, 1953. Class 1.

Tanners' Council of America, Inc., assignor to R. K. Fries, New York, N. Y. Section of publication. 581,643, Oct. 27; Serial No. 640,174, published July 14, 1953. Class 38.

Technilogs, Philadelphia, Pa. Preparation, planning, detailing, printing, etc., of catalogues. 581,703, Oct. 27; Serial No. 630,632, published July 21, 1953. Class 101.

Tenny Pharmacy, Inc., New York, N. Y. Preparation for the treatment of athlete's foot. 581,514, Oct. 27; Serial No. 625,374, published July 28, 1953. Class 18.

Tesco Chemicals, Inc.: *See*—
Detergent Products Corporation.

Thermoid Chemical Co., Trenton, N. J. Reaction product of sulfur and a mixture of phenanthrenic and vegetable fatty acids. 581,651, Oct. 27; Serial No. 640,822, published July 28, 1953. Class 6.

Thompson, Harold J., doing business as B. & L. Laboratories, Minneapolis, Minn. Dental articulators. 581,531, Oct. 27; Serial No. 629,755, published July 28, 1953. Class 44.

Threads, Incorporated, Gastonia, N. C. Sewing thread. 316,556, Aug. 28, 1934. Republished Oct. 27. Class 43.

314 New Dorp. Lane Corp.: *See*—
Seduttо Company, The.

Tone Professional Products: *See*—
Blau, Joseph.

Toni Company, The: *See*—
Gillette Company, The.

Tosan Drug Co.: *See*—
Santos, Manuel.

Tourex Company of America, Inc., New York, N. Y. Providing and arranging credit facilities to customers, etc. 581,706, Oct. 27; Serial No. 639,087, published July 14, 1953. Class 102.

Towle Manufacturing Company, Newburyport, Mass. Sterling silver and sterling silver mounted flatware and table cutlery. 581,673–4, Oct. 27; Serial Nos. 641,873–4, published June 9, 1953. Class 28.

Tosai Koeki Kaisha, Ltd., Tokyo, Japan. Canned tuna fish, crabmeat, Mandarin oranges, etc. 581,659, Oct. 27; Serial No. 641,239, published July 14, 1953. Class 46.

Trade-A-Shoe: *See*—
Phelan, Helen.

Travel Kader: *See*—
Rushmore, Walter C.

Tucker, R. Clark, Baltimore, Md. Book. 581,639, Oct. 27; Serial No. 639,795, published July 14, 1953. Class 38.

Turkey Bend Farm, Osage Beach, Mo. Boned fresh chicken. 581,518, Oct. 27; Serial No. 626,596, published July 14, 1953. Class 46.

Underwood, William, Company, Boston, to William Underwood Company, Watertown, Mass. Canned sardines. 92,148, re-renewed June 17, 1953. O. G. Oct. 27. Class 46.

United Grocers, Ltd., San Francisco, Calif. Column for publications. 581,606, Oct. 27; Serial No. 637,895, published July 14, 1953. Class 38.

United Novelty Shoe Company, Indianapolis, Ind., by Craddock-Terry Shoe Corporation, Lynchburg, Va. Shoes. 233,000, Sept. 20, 1927. Republished Oct. 27. Class 39.

United Wallpaper, Inc., Chicago, Ill. Moistureproof paper cartons and cups. 581,508, Oct. 27; Serial No. 624,619, published July 28, 1953. Class 2.

United Wallpaper, Inc., Chicago, Ill. Color pigments for use in the manufacture of oil paints and water emulsion latex paints. 581,538–9, Oct. 27; Serial Nos. 630,463–4, published July 14, 1953. Class 16.

United States Naval Academy Alumni Association, Inc., Annapolis, Md. Periodical publication. 581,468, Oct. 27; Serial No. 609,897, published July 14, 1953. Class 38.

United States Rubber Company: *See*—
Gillette Rubber Company.

United States Rubber Company, New York, N. Y. Shoe soles. 581,455, Oct. 27; Serial No. 602,234, published July 14, 1953. Class 39.

Universal Calendar Company, The: *See*—
Rothe, Walter F.

Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. 581,666, Oct. 27; Serial No. 641,533, published July 28, 1953. Class 18.

Vail, Dean, Rowayton, Conn., assignor to Dean Vail Corp., Paterson, N. J. Plastic mitt. 581,479, Oct. 27; Serial No. 616,880, published July 21, 1953. Class 39.

Vail, Dean, Corp., assignee: *See*—
Vail, Dean.

Vanadium-Alloys Steel Company, Latrobe, Pa. Tool steel. 581,504, Oct. 27; Serial No. 623,693, published Mar. 17, 1953. Class 14.

Van Doren, Palmer S., deceased, Eaton; The Easton National Bank, executor, and J. E. Hocking, administrator c. t. a., assignors to J. E. Hocking, Williams Township, Pa. Fresh celery. 581,587, Oct. 27; Serial No. 635,861, published July 21, 1953. Class 46.

Vance, Sanders & Company, Boston, Mass. Providing for regular purchases of securities by investors. 581,699, Oct. 27; Serial No. 612,713, published July 14, 1953. Class 101.

Viliter, E. F., Co., Milwaukee, Wis. Machine tools. 581,732, Oct. 27; Serial No. 644,357. Class 23.

Vulcan Manufacturing Co., Inc., Winona, Minn. Automobile jacks. 581,717, Oct. 27; Serial No. 618,560. Class 23.

Walker, Edward C., doing business under the name and style of Kozak, Batavia, N. Y. Cellulose sponges. 581,614, Oct. 27; Serial No. 638,457, published July 28, 1953. Class 1.

Wall-Streeter Shoe Co., North Adams, Mass. Men's and Boys' shoes. 581,442, Oct. 27; Serial No. 584,094, published Feb. 10, 1953. Class 39.

Wander Company, The, Chicago, Ill. Analgesic preparation. 581,516, Oct. 27; Serial No. 625,776, published July 28, 1953. Class 18.

Warner, Lansing B., Incorporated, Chicago, Ill. Underwriting of fire and casualty insurance. 581,700, Oct. 27; Serial No. 615,670, published July 14, 1953. Class 102.

Warren Tool Corporation, Howland, Ohio. Hand tools. 581,445, Oct. 27; Serial No. 588,069, published May 12, 1953. Class 23.

Washington Post Company, The: *See*—
Washington Post Publishing Company, The.

Washington Post Publishing Company, The, assignor to E. Meyer, Seven Springs Farm, Mount Kisco, N. Y., by The Washington Post Company, Washington, D. C. Article appearing daily and Sunday in its newspaper. 322,882, Mar. 26, 1935. Republished Oct. 27. Class 38.

Waters, Robert S., and W. G. Heiner, Receivers for The National Radiator Corporation, by The National Radiator Company, Johnstown, Pa. Heat exchange apparatus. 304,066, June 20, 1933. Republished Oct. 27. Class 34.

Weiner, Lewis, doing business as Lewis Weiner Engineering Co., Long Island City, N. Y. Slide fasteners, stringers and sliders. 581,635, Oct. 27; Serial No. 639,599, published June 9, 1953. Class 13.

Weiner, Lewis, Engineering Co.: *See*—
Weiner, Lewis.

Wella Corporation, The, New York, N. Y. Electrical hair waving machines and clamps, etc. 581,521, Oct. 27; Serial No. 627,414, published July 28, 1953. Class 44.
West Disinfecting Company, Long Island City, N. Y. Chemical tablets. 581,511, Oct. 27; Serial No. 625,162, published May 19, 1953. Class 6.
Weston Biscuit Company Inc., doing business under the name Southern Biscuit Company, Passaic, N. J. and Richmond, Va. Cakes, cookies, and crackers. 581,592, Oct. 27; Serial No. 636,263, published July 28, 1953. Class 46.
Weyerhaeuser Timber Company, Tacoma, Wash. Transportation of general cargo by steamship. 581,705, Oct. 27; Serial No. 638,114, published July 28, 1953. Class 105.
Whirlpool Corporation, St. Joseph, Mich. 581,480, Oct. 27. Dish washing machines, Serial No. 625,838, published Feb. 3, 1953. Class 23; domestic laundry appliances, Serial No. 617,520, published Jan. 20, 1953. Class 24. (Consolidated certificate, Classes 23, and 24.)
Wiegand, Edwin L., Company, Pittsburgh, Pa. Electric room or space heaters. 305,374, renewed Aug. 15, 1953. O. G. Oct. 27. Class 21.
Willys Motors, Inc., assignee: *See*—
Willys-Overland Motors, Inc.
Willys-Overland Motors, Inc., assignor to Willys Motors, Inc., Toledo, Ohio. Automobiles and structural parts thereof. 581,428, Oct. 27; Serial No. 476,589, published July 28, 1953. Class 19.
Wilson & Co., Inc., Chicago, Ill. Food. 581,509, Oct. 27; Serial No. 625,086, published May 26, 1953. Class 46.
Wolff Appliance Corp., Long Island City, N. Y. Tissue dispensing boxes, hampers; baskets; etc. 581,439, Oct. 27; Serial No. 579,463, published July 28, 1953. Class 2.
Wood, Carol, San Diego, Calif. Hair curling comb. 581,449, Oct. 27; Serial No. 595,182, published July 14, 1953. Class 40.
Wooster Brush Company, The, Wooster, Ohio. Paint applying devices—namely, brushes, etc. 581,474, Oct. 27; Serial No. 613,951, published July 7, 1953. Class 29.
Wycombe, Meyer, Inc., by B. Altman & Co., New York, N. Y. Living room, dining room, and bedroom furniture. 414,445, June 12, 1945. Republished Oct. 27. Class 32.
Yolande Corporation, New York, N. Y. Panties. 581,649, Oct. 27; Serial No. 640,767, published July 14, 1953. Class 39.
Youngstein, Morris E., Wilmington, Del. Women's shoes. 581,542, Oct. 27; Serial No. 630,693, published July 21, 1953. Class 39.
Zemis, Charles A., Lawrence, Mass. Safety pins. 581,555, Oct. 27; Serial No. 631,838, published July 14, 1953. Class 40.
Zion Countryside Bakers, The: *See*—
Zion Industries, Inc.
Zion Industries, Inc., doing business as The Zion Countryside Bakers, Zion, Ill. Cookies. 581,461, Oct. 27; Serial No. 607,108, published June 16, 1953. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Cellophane flakes for use in drilling mud. Magnet Cove Barium Corporation. 581,534, Oct. 27; Serial No. 629,904, published July 28, 1953.
Cellulose sponges. E. C. Walker. 581,614, Oct. 27; Serial No. 638,457, published July 28, 1953.
Expanded volcanic glass in a semi-powder state. Perlite of Houston, Inc. 581,482, Oct. 27; Serial No. 618,124, published July 14, 1953.
Extruded thermoplastic products. Anesite Company. 581,519, Oct. 27; Serial No. 627,030, published July 28, 1953.
Flowers, foliage, and natural flowers, Cut. A. Robbins. 581,619, Oct. 27; Serial No. 638,779, published July 28, 1953.
Grass seed, Lawn. Germain's, Inc. 581,648, Oct. 27; Serial No. 640,678, published July 28, 1953.
Leather. Eagle-Ottawa Leather Company. 581,731, Oct. 27; Serial No. 642,627.
Leather. Surpass Leather Company. 581,564, Oct. 27; Serial No. 632,540, published July 28, 1953.
Natural and synthetic air-curing liquid rubber. Industrial Rubber Products, Inc. 581,633, Oct. 27; Serial No. 639,473, published July 28, 1953.
Synthetic brush filaments. Frederick H. Cone & Company, Incorporated. 581,654, Oct. 27; Serial No. 640,915, published July 28, 1953.

CLASS 2

Bag, Plastic garment storage. Rassenfoss Bag Company. 581,689, Oct. 27; Serial No. 643,186, published July 28, 1953.
Bags, Empty. Fruit Products Corporation. 581,551, Oct. 27; Serial No. 631,413, published July 28, 1953.
Cartons and cups, Moistureproof paper. United Wallpaper, Inc. 581,508, Oct. 27; Serial No. 624,619, published July 28, 1953.
Chests, Silverware or tableware storage. Oneida Ltd. 581,563, Oct. 27; Serial No. 632,486, published July 28, 1953.
Feed boxes, Poison. Arwell, Inc. 581,566, Oct. 27; Serial No. 632,711, published July 28, 1953.
Tanks, Metal. Richmond Engineering Co., Inc. 581,557, Oct. 27; Serial No. 631,999, published July 28, 1953.
Tissue dispensing boxes, hampers; baskets; etc. Wolff Appliance Corp. 581,439, Oct. 27; Serial No. 579,463, published July 28, 1953.

CLASS 5

Linoleum paste, and water-proof rubber tile cement. Standard Floor Covering Co., Inc. 581,467, Oct. 27; Serial No. 608,959, published Mar. 3, 1953.

CLASS 6

Air entraining agent. National Sales, Inc. 581,726, Oct. 27; Serial No. 634,701.
Anti-freeze solution. Banner Manufacturing Co. Inc. 304,102, renewed June 20, 1953. O. G. Oct. 27.
Bactericides. Abbott Laboratories. 338,986, Sept. 22, 1936. Corrected. O. G. Oct. 27.
Boiler cleaning compounds and water softeners. The Flox Co. 196,268, Mar. 17, 1925. Republished Oct. 27.
Chemical tablets. West Disinfecting Company. 581,511, Oct. 27; Serial No. 625,162, published May 19, 1953.
Dyestuffs, lakes and chemical products. Geigy Company, Inc. 307,766, Oct. 31, 1933. Republished Oct. 27.
Insecticides. Cela Landwirtschaftliche Chemikalien G. m. b. H. 581,620, Oct. 27; Serial No. 639,099, published July 28, 1953.
Reaction product of sulfur and a mixture of phenanthrenic and vegetable fatty acids. Thermoid Chemical Co. 581,651, Oct. 27; Serial No. 640,822, published July 28, 1953.
Self-emulsifying, highly refined petroleum oil used to eliminate and inhibit the growth of secondary leaves on tobacco plants. Pennsylvania Refining Company. 581,577, Oct. 27; Serial No. 635,052, published July 28, 1953.
Soap powders. Rex Products & Manufacturing Company. 286,829, Sept. 8, 1931. Republished Oct. 27.
Solvent material used to extract oil from vegetable matter. Detroit Rex Products Company. 400,101, Feb. 16, 1943. Republished Oct. 27.

CLASS 9

Paper caps in rolls for toy pistols. The Kilgore Manufacturing Company. 331,706, Jan. 21, 1936. Republished Oct. 27.
Paper caps in rolls for toy pistols. The Kilgore Manufacturing Company. 332,406, Feb. 11, 1936. Republished Oct. 27.

CLASS 10

Fertilizer. F. Goldthwaite. 581,734, Oct. 27; Serial No. 646,667.
Fertilizers. Franz Haniel & Cie, G. m. b. H. 302,928, renewed May 2, 1953. O. G. Oct. 27.

CLASS 12

Ceramic tile, ceramic sewer and drain pipe, ceramic culvert pipe, etc. The Ric-Wil Company. 581,567, Oct. 27; Serial No. 633,075, published July 28, 1953.
Concrete pipe and collars, Reinforced. Concrete Conduit Company. 581,713, Oct. 27; Serial No. 610,256.
Shingles. The Philip Carey Manufacturing Company. 581,710, Oct. 27; Serial No. 579,966.
Window and door units. The Casement Hardware Company. 581,601, Oct. 27; Serial No. 637,478, published July 28, 1953.

CLASS 13

Hollow ware, Base metal. The Aluminum Cooking Utensil Company. 306,897, renewed Oct. 3, 1953. O. G. Oct. 27.
Slide fasteners, stringers and sliders. L. Weiner. 581,635, Oct. 27; Serial No. 639,599, published June 9, 1953.

CLASS 14

Tool-steel. Crucible Steel Company of America. 41,265, re-renewed Oct. 6, 1953. O. G. Oct. 27.
Tool-steel. Halcomb Steel Company. 93,847, re-renewed Oct. 21, 1953. O. G. Oct. 27.
Tool steel. Vanadium-Alloys Steel Company. 581,504, Oct. 27; Serial No. 623,693, published Mar. 17, 1953.

CLASS 15

Aliphatic alcohol esters of ricinoleic acid which are used as upper cylinder lubricants. The Baker Castor Oil Company. 581,497, Oct. 27; Serial No. 621,446, published July 7, 1953.

CLASS 16

Color pigments for use in the manufacture of oil paints and water emulsion latex paints. United Wallpaper, Inc. 581,538–9, Oct. 27; Serial Nos. 630,463–4, published July 14, 1953.
Liquid neoprene maintenance coatings, and vinyl protective coatings. Protective Coatings, Inc. 581,549, Oct. 27; Serial No. 631,176, published July 14, 1953.
Materials sold as a unit, namely paint and small light refracting materials. Prismo Safety Corporation. 581,593, Oct. 27; Serial No. 636,431, published July 14, 1953.
Paints and varnishes, All sorts of. J. C. Hempel's Skibsfarvefabrik A/S. 581,532, Oct. 27; Serial No. 629,799, published July 14, 1953.
Paints and varnishes, All sorts of. J. C. Hempel's Skibsfarvefabrik A/S. 581,536, Oct. 27; Serial No. 630,192, published July 15, 1953.
Paints, enamels, stains, etc., Ready mixed, custom mixed and semi-paste. The Martin-Senour Company. 581,613, Oct. 27; Serial No. 638,427, published July 14, 1953.
Paints of ready mixed form, varnishes, enamels of the paint or varnish type, etc. The Lowe Brothers Company. 305,662, renewed Aug. 22, 1953. O. G. Oct. 27.

CLASS 17

Cigars. M. & N. Cigar Manufacturers, Inc. 306,769, renewed Sept. 26, 1953. O. G. Oct. 27.
Cigars. A. Siegel & Sons Inc. 307,704, renewed Oct. 31, 1953. O. G. Oct. 27.

CLASS 18

Analgesic preparation. The Wander Company. 581,516, Oct. 27; Serial No. 625,775, published July 28, 1953.
Antianemic preparation. E. R. Squibb & Sons. 581,456, Oct. 27; Serial No. 602,293, published Sept. 4, 1951.
Chemical-pharmaceutical products. Lepetit S. P. A. 581,483, Oct. 27; Serial No. 618,586, published July 7, 1953.
Hematinic preparation. Sharp & Dohme Incorporated. 581,658, Oct. 27; Serial No. 641,212, published July 28, 1953.
Hormonal preparations. E. R. Squibb & Sons. 581,466, Oct. 27; Serial No. 608,259, published July 28, 1953.
Medicaments. S. Pfeiffer Manufacturing Company. 581,609, Oct. 27; Serial No. 638,095, published July 7, 1953.
Medicated dressings. T. J. Smith & Nephew Limited. 581,576, Oct. 27; Serial No. 634,809, published July 28, 1953.
Medicinal compound. Seydel Chemical Company. 303,460, May 23, 1933. Republished Oct. 27.
Medicinal preparation. Sharp & Dohme Incorporated. 581,657, Oct. 27; Serial No. 641,211, published July 28, 1953.
Medicinal preparation. The Upjohn Company. 581,666, Oct. 27; Serial No. 641,533, published July 28, 1953.
Medicines for the treatment of rectal and vaginal disorders. Mallon Chemical Corp. 581,661, Oct. 27; Serial No. 641,313, published July 28, 1953.
Nose drops. Park Adams Incorporated. 581,550, Oct. 27; Serial No. 631,393, published July 28, 1953.
Ophthalmic solutions. Alcon Laboratories, Inc. 581,463, Oct. 27; Serial No. 607,468, published July 28, 1953.
Parenteral solutions. Baxter Laboratories, Inc. 581,653, Oct. 27; Serial No. 640,901, published July 7, 1953.
Preparation for the prevention and treatment of animal scours. Mathieson Chemical Corporation. 581,667, Oct. 27; Serial No. 641,561, published July 28, 1953.
Preparation for the relief of throat ailments. Doho Chemical Corporation. 581,660, Oct. 27; Serial No. 641,278, published July 28, 1953.
Preparation for the treatment of athlete's foot. Tenny Pharmacy, Inc. 581,514, Oct. 27; Serial No. 625,374, published July 28, 1953.
Preparation of chloral hydrate. Fellows Medical Manufacturing Company, Inc. 581,632, Oct. 27; Serial No. 639,422, published July 28, 1953.
Sedative, anodyne, and palatable expectorant. J. Blau. 581,465, Oct. 27; Serial No. 607,841, published Sept. 11, 1951.
Syrups for the relief of coughs and minor throat irritations. M. Santos. 581,533, Oct. 27; Serial No. 629,863, published Apr. 7, 1953.
Tonics, Reconstructive. Davies, Rose & Company, Limited. 308,764, renewed Dec. 19, 1953. O. G. Oct. 27.
Vasodilator designed for use in treatment of Raynaud's disease, etc. Kremers-Urban Company. 581,515, Oct. 27; Serial No. 625,741, published July 28, 1953.
Vitamin concentrates. Commercial Solvents Corporation. 581,652, Oct. 27; Serial No. 640,848, published July 28, 1953.
Vitamin preparation. McNeil Laboratories, Incorporated. 581,512, Oct. 27; Serial No. 625,285, published July 28, 1953.

CLASS 19

Aircraft. North American Aviation, Inc. 581,680, Oct. 27; Serial No. 642,364, published July 28, 1953.
Automobile heaters. Kingston Products Corporation. 581,493, Oct. 27; Serial No. 620,508, published July 28, 1953.
Automobiles and structural parts thereof. Willys-Overland Motors, Inc. 581,428, Oct. 27; Serial No. 476,589, published July 28, 1953.
Bicycles. Arnold, Schwinn & Co. 581,559, Oct. 27; Serial No. 632,069, published July 28, 1953.
Boats, Pleasure. L. R. Fuertes. 581,471, Oct. 27; Serial No. 612,535, published July 28, 1953.
Cylindrical manually operable reel, etc., said reel being adapted for mounting on an open-top truck, etc. R. A. Neitzke. 581,718, Oct. 27; Serial No. 619,030.
Trailer coach all weather roof ventilators. F. A. Strawsine. 581,473, Oct. 27; Serial No. 613,200, published July 28, 1953.
Vehicles, Transportation. Ford Motor Company Limited. 581,586, Oct. 27; Serial No. 635,641, published July 28, 1953.

CLASS 21

Amplifying apparatus. Convert-A-Phone Company, Incorporated. 581,711, Oct. 27; Serial No. 603,769.
Capacitors. Astron Corporation. 581,475, Oct. 27; Serial No. 615,006, published July 14, 1953.
Complete pole line equipment, circuit protective equipment and parts thereof, etc. Joslyn Mfg. and Supply Co. 581,435, Oct. 27; Serial No. 572,744, published July 14, 1953.
Electric room or space heaters. Edwin L. Wiegand Company. 305,374, renewed Aug. 15, 1953. O. G. Oct. 27.
Electrically energized heating equipment. Continental Radiant Glass Heating Corporation. 581,720, Oct. 27; Serial No. 619,965.
Electrically operated apparatus and tools. Portable Electric Tools, Inc. 581,722, Oct. 27; Serial No. 626,409.
Lamps and beacons, Electric traffic, and visual electric signals and signs. Municipal Street Sign Co., Inc. 309,000, renewed Dec. 26, 1953. O. G. Oct. 27.
Lamps, Incandescent and fluorescent. Duro-Test Corporation. 581,712, Oct. 27; Serial No. 605,733.
Speed control mechanism for record players. Califone Corporation. 581,469, Oct. 27; Serial No. 611,756, published July 14, 1953.
Television receiving sets. Hoffman Radio Corporation. 581,733, Oct. 27; Serial No. 645,753.
Vaporizer for insecticide particularly adapted for attachment to an electric light bulb. Candle-Lite Chemical Company. 581,535, Oct. 27; Serial No. 630,117, published July 14, 1953.

CLASS 22

Doll clothes. Grant Toy Co. 581,691, Oct. 27; Serial No. 644,415, published July 21, 1953.
Dolls. Bal Dolls, Inc. 581,647, Oct. 27; Serial No. 640,489, published July 14, 1953.
Fishing equipment, archery equipment, badminton equipment, etc. Adolph Bisich, Incorporated. 581,606, Oct. 27; Serial No. 638,058, published July 28, 1953.
Fishing lures. E. S. Scanlan. 581,668, Oct. 27; Serial No. 641,576, published July 14, 1953.
Fishing tackle. Lif-Lik Lure Co. 581,716, Oct. 27; Serial No. 617,844.
Play nurse first aid kit. The Kendall Company. 581,690, Oct. 27; Serial No. 644,237, published July 28, 1953.
Swings, Children's. J & W Steel Products, Inc. 581,671, Oct. 27; Serial No. 641,681, published July 21, 1953.

CLASS 23

Automobile jacks. Vulcan Manufacturing Co., Inc. 581,717, Oct. 27; Serial No. 618,560.
Chopper, Meat and vegetable. The Enterprise Manufacturing Company of Pennsylvania. 581,729, Oct. 27; Serial No. 638,528.
Conduit. J. B. Howard. 581,462, Oct. 27; Serial No. 607,429, published May 12, 1953.
Dish washing machines. Whirlpool Corporation. 581,480, Oct. 27; Serial No. 625,838, published Feb. 3, 1953. (Consolidated certificate, Classes 23, and 24.)
Drive shaft couplings. The Marley Company, Inc. 581,721, Oct. 27; Serial No. 621,106.
Hole saws. American Saw and Manufacturing Company. 581,719, Oct. 27; Serial No. 619,795.
Labeling machines. New Jersey Machine Corporation. 581,432, Oct. 27; Serial No. 549,941, published June 30, 1953.
Machine tools. E. F. Vilter Co. 581,732, Oct. 27; Serial No. 644,357.
Machines for cleaning and degreasing metal parts and the like. Detroit Rex Products Company. 336,256, June 30, 1936. Republished Oct. 27.
Machines used for cleaning clothes and fabric. Detroit Rex Products Company. 385,146, Feb. 18, 1941. Republished Oct. 27.
Machines used for removing and recovering solvents from clothes and fabrics, etc. Detroit Rex Products Company. 385,145, Feb. 18, 1941. Republished Oct. 27.
Milling machines. The Orville Simpson Company. 93,111, re-renewed Aug. 19, 1953. O. G. Oct. 27.
Mining and mill machinery and equipment amalgamation equipment, etc. Denver Equipment Company. 581,430, Oct. 20, 1953; Serial No. 538,105, published July 28, 1953.
Pumps, Deep-well, turbine deep-well pumps, centrifugal pumps, etc. The American Well Works. 893,323, Dec. 10, 1912. Republished Oct. 27.

Tools, Hand. Warren Tool Corporation. 581,445, Oct. 27; Serial No. 588,069, published May 12, 1953.

CLASS 24

Domestic laundry appliances. Whirlpool Corporation. 581,480, Oct. 27; Serial No. 617,520, published Jan. 20, 1953. (Consolidated certificate, Classes 23, and 24.)
Garment presses, ironing presses, clothes washing machines, etc. The Prosperity Company, Inc. 308,594, renewed Dec. 12, 1953. O. G. Oct. 27.

CLASS 25

Locking devices. G. D. Haver. 581,434, Oct. 27; Serial No. 569,971, published July 28, 1953.

CLASS 26

Assembled electronic amplifier units for use with measuring and testing instruments, etc. Southern Instruments Limited. 581,489, Oct. 27; Serial No. 620,236, published July 14, 1953.
Balloons adapted to suspend meterological and other scientific and signalling instruments. General Mills, Inc. 581,500, Oct. 27; Serial No. 622,742, published July 21, 1953.
Electrical analyzing apparatus. Polarograph Laboratories of America. 307,411, renewed Oct. 24, 1953. O. G. Oct. 27.
Fingerprint machine and apparatus. Fingerprint, Incorporated. 581,569, Oct. 27; Serial No. 633, 451, published July 14, 1953.
Instruments for measuring thrust forces. The Reflectone Corporation. 581,595, Oct. 27; Serial No. 636,805, published July 14, 1953.
Measuring rule. Becton Dickinson and Company. 581,565, Oct. 27; Serial No. 632,589, published July 21, 1953.
Thermally-responsive safety switch for cutting off boiler fuel supply. Majestic Fuel Oil Company, Inc. 581,496, Oct. 27; Serial No. 621,361, published July 21, 1953.

CLASS 27

Watches. Hamilton Watch Company. 581,520, Oct. 27; Serial No. 627,262, published June 9, 1953.

CLASS 28

Brooches. Singer-Cohen Inc. 581,672, Oct. 27; Serial No. 641,696, published June 9, 1953.
Lockets, neck chains, crosses, etc. Jablow Manufacturing Co., Inc. 581,510, Oct. 27; Serial No. 625,106, published June 9, 1953.
Rosaries, crucifixes, and religious medals and chains. F. H. Block. 581,570, Oct. 27; Serial No. 633,527, published June 9, 1953.
Silver tableware, hollow ware, and flat ware. Alvin Mfg. Co. 55,363, Aug. 14, 1906. Amended. O. G. Oct. 27.
Silverware. Reed and Barton Corporation. 581,723, Oct. 27; Serial No. 627,839.
Sterling silver and sterling silver mounted flatware and table cutlery. Towle Manufacturing Company. 581,673–4, Oct. 27; Serial Nos. 641,873–4, published June 9, 1953.
Sterling silver flatware. Century Metalcraft Corporation. 581,688, Oct. 27; Serial No. 642,870, published June 9, 1953.
Watch bracelets. Jacoby-Bender, Inc. 581,636, Oct. 27; Serial No. 639,646, published June 9, 1953.
Wrist-watch straps. Lasko Strap Company. 581,517, Oct. 27; Serial No. 626,253, published June 9, 1953.

CLASS 29

Brooms, Household. Richmond Broom Company. 581,453, Oct. 27; Serial No. 600,509, published July 14, 1953.
Brushes, Artist's. H. Reso. 581,459, Oct. 27; Serial No. 605,680, published July 14, 1953.
Brushes, Paint. Pittsburgh Plate Glass Company. 581,662, Oct. 27; Serial No. 641,327, published July 14, 1953.
Cellulose pads, Small unwoven. Davidson Corporation. 581,548, Oct. 27; Serial No. 631,150, published July 7, 1953.
Paint applying devices—namely brushes, etc. The Wooster Brush Company. 581,474, Oct. 27; Serial No. 613,951, published July 7, 1953.
Roofing mops and mop-like applicators. H. R. Kirby. 581,530, Oct. 27; Serial No. 629,611, published July 7, 1953.

CLASS 32

Beds, Porch. Burton-Dixie Corporation. 307,213, renewed Oct. 17, 1953. O. G. Oct. 27.
Beds, Porch and deck chairs. Burton-Dixie Corporation. 308,008, renewed Nov. 14, 1953. O. G. Oct. 27.
Furniture, Living room, dining room, and bedroom. Wycombe, Meyer, Inc. 414,445, June 12, 1945. Republished Oct. 27.

CLASS 33

Fused quartz pipes, pipe fittings and accessories. American Fused Quartz Company, Inc. 581,727, Oct. 27; Serial No. 634,771.

CLASS 34

Heat exchange apparatus. R. S. Waters and W. G. Heiner. 304,066, June 20, 1933. Republished Oct. 27.

CLASS 35

Tires and tubes, Bicycle. Gillette Rubber Company. 306,247, Sept. 12, 1933. Republished Oct. 27.

CLASS 36

Mechanically grooved phonograph records. Plastic Art Toy Corporation of America. 581,440, Oct. 27; Serial No. 580,673, published Aug. 22, 1950.

CLASS 37

Ball point pens, fountain pens, stylo type pens, etc. Ferber Corporation. 581,561, Oct. 27; Serial No. 632,362, published July 21, 1953.
Bond paper and copy and writing paper. Gilbert Paper Company. 581,596, Oct. 27; Serial No. 636,929, published July 14, 1953.
Chalk crayon. Binney & Smith Company. 581,499, Oct. 27; Serial No. 622,734, published June 30, 1953.
Combination check, deposit, and expenditure account book. Columbian Art Works, Inc. 581,457, Oct. 27; Serial No. 603,045, published June 30, 1953.
Envelopes, Correspondence. Berlin & Jones Co., Inc. 581,612, Oct. 27; Serial No. 638,395, published July 14, 1953.
Envelopes, Mailing. Lakeside Central Company. 581,617, Oct. 27; Serial No. 638,543, published July 14, 1953.
Fountain pens, fountain brush pens, and nibs for fountain pens. Dri-Flo Manufacturing Co. 581,503, Oct. 27; Serial No. 623,186, published May 26, 1953.
Glass tracing cloth and glass reproduction cloth. Keuffel & Esser Company. 581,490, Oct. 27; Serial No. 620,345, published July 14, 1953.
Paper, Embossed laminated waterproof. The Cromwell Paper Company. 581,599, Oct. 27; Serial No. 637,363, published June 30, 1953.
Papers, Gummed. Mid-States Gummed Paper Co. 581,524, Oct. 27; Serial No. 628,286, published June 30, 1953.
Pens, Fountain. Sears, Roebuck and Co. 581,640, Oct. 27; Serial No. 639,842, published July 21, 1953.
Record books, Partially printed. Pell-Bari Farms, Inc. 581,600, Oct. 27; Serial No. 637,397, published July 14, 1953.
Stencil sheets and stencil papers. Horii Toshado Kabushiki-Kaisha. 581,603–4, Oct. 27; Serial Nos. 637,633–4, published June 30, 1953.
Stencils, Pressure sensitive. J. Dempnock, Jr. 581,590, Oct. 27; Serial No. 636,121, published July 14, 1953.
Writing paper and envelopes. George B. Hurd, Inc. 581,429, Oct. 27; Serial No. 537,592, published June 16, 1953.
Writing tablets, note and composition books, etc. Lakeside Central Company. 581,616, Oct. 27; Serial No. 638,542, published July 14, 1953.

CLASS 38

Article appearing daily and Sunday in its newspaper. The Washington Post Publishing Company. 322,882, Mar. 26, 1935. Republished Oct. 27.
Book. R. C. Tucker. 581,639, Oct. 27; Serial No. 639,795, published July 14, 1953.
Books. L. A. Shaver. 581,642, Oct. 27; Serial No. 639,961, published July 14, 1953.
Brochures and handbooks, Descriptive. International Telephone and Telegraph Corporation. 581,615, Oct. 27; Serial No. 638,489, published July 14, 1953.
Bulletin, Technical. Atlas Powder Company. 581,670, Oct. 27; Serial No. 641,665, published July 14, 1953.
Calendars, Wall. W. F. Rothe. 581,451, Oct. 27; Serial No. 597,168, published July 14, 1953.
Catalogs, drawings, and printed charts. Birmingham Paper Company. 581,498, Oct. 27; Serial No. 622,008, published July 14, 1953.
Column for publications. United Grocers, Ltd. 581,606, Oct. 27; Serial No. 637,895, published July 14, 1953.
Greeting cards, printed greeting folders, printed seals, etc. Norcross, Inc. 581,547, Oct. 27; Serial No. 631,118, published July 14, 1953.
House organ. Miller Electric Manufacturing Co., Inc. 581,679, Oct. 27; Serial No. 642,237, published July 21, 1953.
Labels, Printed attachable and detachable. The Dayton Rubber Company. 581,585, Oct. 27; Serial No. 635,636, published July 21, 1953.
Magazine. The Parents' Institute, Inc. 581,637–8, Oct. 27; Serial Nos. 639,710–11, published July 14, 1953.
Magazine. The Parents' Institute, Inc. 581,675, Oct. 27; Serial No. 641,960, published July 14, 1953.
Magazine, Industrial. Cherry-Burrell Corporation. 581,525, Oct. 27; Serial No. 628,521, published July 21, 1953.
Newspaper feature. J. C. Gretter. 581,644, Oct. 27; Serial No. 640,211, published July 14, 1953.
Periodical. A. E. Staley Manufacturing Company. 581,575, Oct. 27; Serial No. 634,763, published July 21, 1953.
Periodicals. Good Humor Corporation of America. 301,205, Feb. 21, 1933. Republished Oct. 27.

Periodicals, Trade, circulars and pamphlets. Cummins Engine Company, Inc. 581,597, Oct. 27; Serial No. 637,039, published July 21, 1953.
Printed chart and indicating device thereon. Felix Glatz Import Co., Inc. 581,562, Oct. 27; Serial No. 632,371, published July 21, 1953.
Publication, Periodic. E. Leitz, Inc. 581,545, Oct. 27; Serial No. 631,109, published July 14, 1953.
Publication, Periodical. United States Naval Academy Alumni Association, Inc. 581,468, Oct. 27; Serial No. 609,897, published July 14, 1953.
Publication, Section of. Tanners' Council of America, Inc. 581,643, Oct. 27; Serial No. 640,174, published July 14, 1953.
Publications. The Institute of Radio Engineers, Inc. 581,678, Oct. 27; Serial No. 642,144, published July 21, 1953.
Publications, Periodical. Family Shopper, Inc. 581,573, Oct. 27; Serial No. 633,973, published July 14, 1953.
Section in a periodic publication. Meredith Publishing Company. 581,621, Oct. 27; Serial No. 639,121, published July 21, 1953.
Section in a periodic publication. Meredith Publishing Company. 581,622–3, Oct. 27; Serial Nos. 639,123–4, published July 21, 1953.
Section in a periodic publication. Meredith Publishing Company. 581,624–6, Oct. 27; Serial Nos. 639,126–8, published July 21, 1953.
Section in a periodic publication. Meredith Publishing Company. 581,627–9, Oct. 27; Serial Nos. 639,130–2, published July 21, 1953.
Section in a periodic publication. Meredith Publishing Company. 581,630, Oct. 27; Serial No. 639,138, published July 21, 1953.

CLASS 39

Articles of wearing apparel, Washable. Callaway Mills Company. 581,602, Oct. 27; Serial No. 637,569, published July 21, 1953.
Blouses and dresses, Women's and children's. Advance Buying Corp. 581,686, Oct. 27; Serial No. 642,720, published July 21, 1953.
Boots and shoes. W. L. Douglas Shoe Company. 581,582, Oct. 27; Serial No. 635,412, published July 21, 1953.
Boots and shoes. French, Shriner & Urner Manufacturing Co. 581,472, Oct. 27; Serial No. 613,061, published July 21, 1953.
Boots, shoes, and slippers. Brevitt Shoes Limited. 581,568, Oct. 27; Serial No. 633,236, published July 21, 1953.
Boots, shoes, and slippers, Men's, women's, and children's. R. H. Fyfe & Co. 581,684, Oct. 27; Serial No. 642,509, published July 21, 1953.
Boots, shoes, slippers, etc. Perth Shoe Company Limited. 308,909, renewed Dec. 26, 1953. O. G. Oct. 27.
Brassières. Lilyette Brassieres Co., Inc. 581,682, Oct. 27; Serial No. 642,412, published July 21, 1953.
Brassières and garter belts. V. E. Haik. 581,541, Oct. 27; Serial No. 630,673, published July 14, 1953.
Brassières, foundation garments, girdles, etc. Kabo, Inc. 581,523, Oct. 27; Serial No. 628,209, published July 21, 1953.
Brassières, Women's and misses'. Caltex Sportswear Co. of California, Inc. 581,594, Oct. 27; Serial No. 636,630, published July 21, 1953.
Coats, Ladies', misses'. Dave Bellsey Co. Inc. 581,506, Oct. 27; Serial No. 624,073, published May 19, 1953.
Coats, suits, jackets, etc., Ladies' and misses'. Morris W. Haft & Brothers. 400,460, Mar. 9, 1943. Republished Oct. 27.
Coats, suits, jackets, etc., Ladies' and misses'. Morris W. Haft & Brothers. 400,907, Apr. 6, 1943. Republished Oct. 27.
Coats, suits, jackets, etc., Ladies' and misses'. Morris W. Haft & Brothers. 403,935, Oct. 26, 1943. Republished Oct. 27.
Coats, suits, jackets, etc., Ladies' and misses'. Morris W. Haft & Brothers. 406,520, Apr. 11, 1944. Republished Oct. 27.
Coats, suits, Ladies', misses', and children's. Baitch & Castaldi, Inc. 581,447, Oct. 27; Serial No. 591,275, published July 21, 1953.
Dresses, blouses, skirts, etc., Women's, misses', and juniors'. Litt & Co. 581,641, Oct. 27; Serial No. 639,943, published July 14, 1953.
Garment set, Baby's terry cloth play. Napper Company, Incorporated. 581,450, Oct. 27; Serial No. 597,157, published Mar. 25, 1952.
Garments, Men's, boys', and children's outer. Cohen, Goldman & Co., Inc. 309,685, renewed Jan. 23, 1954. O. G. Oct. 27.
Girdles. Artistic Foundations, Inc. 581,607, Oct. 27; Serial No. 638,052, published July 14, 1953.
Girdles, Kabo, Inc. 581,685, Oct. 27; Serial No. 642,558, published July 21, 1953.
Gloves, Ladies' and men's. E. M. Reece. 581,655, Oct. 27; Serial No. 640,962, published July 21, 1953.
Hair nets. G. H. S. Corporation. 581,540, Oct. 27; Serial No. 630,594, published Dec. 2, 1952.
Hosiery, slips, etc., Women's, misses', and girls'. Eastern Outfitting Co., of Portland, Oregon. 376,302, Mar. 19, 1940. Restricted. O. G. Oct. 27.
Mitt, Plastic. D. Vail. 581,479, Oct. 27; Serial No. 616,880, published July 21, 1953.
Overalls, jackets, outer shirts, Men's, women's, and children's. Levi Strauss & Company. 581,610, Oct. 27; Serial No. 638,273, published July 21, 1953.
Panties. Yolande Corporation. 581,649, Oct. 27; Serial No. 640,767, published July 14, 1953.
Scuffles, Chenille. J. W. Bray, Sr. 581,486, Oct. 27; Serial No. 618,912, published July 21, 1953.
Shoe soles. United States Rubber Company. 581,455, Oct. 27; Serial No. 602,234, published July 14, 1953.
Shoes. Algy Shoes, Inc. 581,605, Oct. 27; Serial No. 637,635, published July 21, 1953.
Shoes. H. Phelan. 581,578, Oct. 27; Serial No. 635,053, published July 21, 1953.
Shoes. United Novelty Shoe Company. 233,009, Sept. 20, 1927. Republished Oct. 27, 1953.
Shoes and slippers, Men's, women's, and girls'. National Bellas Hess, Inc. 581,529, Oct. 27; Serial No. 629,450, published July 21, 1953.
Shoes, Children's. Harsfeld's, Inc. 307,820, Nov. 7, 1933. Republished Oct. 27.
Shoes, Ladies' and misses'. F. Burkart Manufacturing Co. 581,571, Oct. 27; Serial No. 633,531, published July 21, 1953.
Shoes, Ladies' and misses'. Samuels Shoe Company. 581,656, Oct. 27; Serial No. 640,965, published July 21, 1953.
Shoes, Leather. Stone-Tarlow Co., Inc. 334,082, Apr. 21, 1936. Republished Oct. 27.
Shoes, leather and wool gloves, leggings, etc., Men's and boys'. Namm's, Inc. 581,452, Oct. 27; Serial No. 600,069, published Apr. 1, 1952.
Shoes, Men's and boys'. Wall-Streeter Shoe Co. 581,442, Oct. 27; Serial No. 584,094, published Feb. 10, 1953.
Shoes, Men's and women's. Kirk's, Inc. 581,501, Oct. 27; Serial No. 622,748, published July 21, 1953.
Shoes, Men's leather. Connolly Shoe Co. 392,767, Jan. 13, 1942. Republished Oct. 27.
Shoes, Men's, women's, and children's. Shoe Corporation of America. 581,507, Oct. 27; Serial No. 624,505, published July 21, 1953.
Shoes, Women's. Dainty Maid Shoe Company, Inc. 581,589, Oct. 27; Serial No. 636,001, published May 12, 1953.
Shoes, Women's. Nusrala-Bowen Shoe Co., Inc. 581,553, Oct. 27; Serial No. 631,678, published July 21, 1953.
Shoes, Women's. The Selby Shoe Company. 581,618, Oct. 27; Serial No. 638,667, published July 21, 1953.
Shoes, Women's. M. E. Youngstein. 581,542, Oct. 27; Serial No. 630,693, published July 21, 1953.
Shoes, Women's and misses'. The Walker T. Dickerson Company. 581,513, Oct. 27; Serial No. 625,345, published July 21, 1953.
Shoes, Women's arch support. R. H. Macy & Co., Inc. 308,139, renewed Nov. 21, 1953. O. G. Oct. 27.
Slips and half slips, Ladies'. Archdale Manufacturing Co., Inc. 581,543, Oct. 27; Serial No. 630,746, published July 21, 1953.
Suits and coats, Girls', juniors', misses', little women's, and ladies'. Siegel Bros. Kiki Maid Coats Inc. 340,722, Nov. 17, 1936. Republished Oct. 27.
Suits and coats, Women's and misses'. Morris W. Haft & Bros., Inc. 393,113, Jan. 27, 1942. Republished Oct. 27.
Sweaters; etc., Men's, women's and children's. Gardiner-Warring Company, Inc. 304,343, renewed July 4, 1953. O. G. Oct. 27.
Sweaters, Men's and women's, and men's and women's sweat shirts. Gardiner-Warring Company, Inc. 304,346, renewed July 4, 1953. O. G. Oct. 27.
Undergarments. Pickwick Lingerie. 581,438, Oct. 27; Serial No. 579,449, published Oct. 10, 1950.
Underwear, Men's, women's, and children's. Celanese Corporation of America. 307,648, renewed Oct. 31, 1953. O. G. Oct. 27.

CLASS 40

Buttons. The Manhattan Shirt Company. 581,669, Oct. 27; Serial No. 641,625, published July 14, 1953.
Comb, Hair curling. C. Wood. 581,449, Oct. 27; Serial No. 595,182, published July 14, 1953.
Comb, mirror and brush sets, and comb and hand mirror sets. Helene Pessl, Inc. 581,664, Oct. 27; Serial No. 641,378, published July 14, 1953.
Pins, Safety. C. A. Zemis. 581,555, Oct. 27; Serial No. 631,838, published July 14, 1953.
Shoulder strap cushion attachment. Mills Manufacturing Corporation. 581,436, Oct. 27; Serial No. 576,345, published July 14, 1953.
Spiral combs. Lentheric Incorporated. 581,437, Oct. 27; Serial No. 578,982, published July 14, 1953.

CLASS 42

Fabrics, Celanese Corporation of America. 305,742, renewed Aug. 22, 1953. O. G. Oct. 27.
Fabrics, Celanese Corporation of America. 307,458–60, renewed Oct. 24, 1953. O. G. Oct. 27.
Fabrics, Celanese Corporation of America. 307,649, renewed Oct. 31, 1953. O. G. Oct. 27.
Fabrics, Celanese Corporation of America. 308,484, renewed Dec. 5, 1953. O. G. Oct. 27.
Fabrics, Celanese Corporation of America. 308,727, renewed Dec. 19, 1953. O. G. Oct. 27.

Fabrics in the piece. Celanese Corporation of America. 306,491, renewed Sept. 19, 1953. O. G. Oct. 27.
Fabrics in the piece. Celanese Corporation of America. 307,835–6, renewed Nov. 7, 1953. O. G. Oct. 27.
Fabrics, Piece. Atuyer, Bianchini, Ferier. 93,954, re-renewed Oct. 28, 1953. O. G. Oct. 27.
Fabrics, Woolen and worsted. Siegel Bros. Garment Corp. 408,639, Aug. 22, 1944. Republished Oct. 27.
Organdy, in the form of piece goods. Aktiengesellschaft Cilander. 305,155, renewed Aug. 8, 1953. O. G. Oct. 27.
Piece goods. Bianchini, Ferier. 308,760–1, renewed Dec. 19, 1953. O. G. Oct. 27.
Piece goods. Siegel Bros. Kiki Maid Koats, Inc. 347,280, June 22, 1937. Republished Oct. 27.
Piece goods, Woolen. Morris W. Haft & Brothers, Inc. 350,271, Sept. 21, 1937. Republished Oct. 27.
Sheets and pillow cases. The John P. King Manufacturing Co. 308,796, renewed Dec. 19, 1953. O. G. Oct. 27.

CLASS 43

Crochet cotton, twine for needle work, embroidery thread, etc., Mercerized. Cleveland Mill and Power Company. 308,747, renewed Dec. 19, 1953. O. G. Oct. 27.
Stranded cotton. The Clark Thread Company. 381,446, Oct. 27; Serial No. 590,582, published July 14, 1953.
Thread and yarn. American Bemberg Corporation. 305,127, renewed Aug. 1, 1953. O. G. Oct. 27.
Thread, Sewing. Threads, Incorporated. 316,556, Aug. 28, 1934. Republished Oct. 27.
Yarns, Woollen, cotton, and mixed knitting. Leidsche Wolspinnerij N. V. 581,560, Oct. 27; Serial No. 632,253, published July 14, 1953.

CLASS 44

Dental articulators. H. J. Thompson. 581,531, Oct. 27; Serial No. 629,755, published July 28, 1953.
Dissecting, post mortem and general operating instruments. Fred Haslam & Co. Inc. 581,730, Oct. 27; Serial No. 638,717.
Endoscopic instruments. American Cystoscope Makers, Inc. 581,526, Oct. 27; Serial No. 628,899, published July 28, 1953.
Hair waving machines and clamps, etc., Electrical. The Wella Corporation. 581,521, Oct. 27: Serial No. 627,414, published July 28, 1953.
Sanitary belts. Mills Manufacturing Corporation. 581,487, Oct. 27; Serial No. 619,306, published May 13, 1952.

CLASS 46

Apples, Fresh. Cowiche Growers, Inc. 581,663, Oct. 27; Serial No. 641,369, published July 14, 1953.
Baby foods, Processed fresh frozen. P. F. Hartman. 581,495, Oct. 27; Serial No. 621,265, published May 26, 1953.
Berries, Frozen, and frozen vegetables. Marion Creamery & Poultry Company. 581,485, Oct. 27: Serial No. 618,894, published July 14, 1953.
Bread. Carolina Baking Company. 216,875, Aug. 24, 1926. Republished Oct. 27.
Bread and cake. Carolina Baking Company. 211,544, Apr. 13, 1926. Republished Oct. 27.
Breakfast-foods, Cereal. Postum Cereal Co., Limited. 40,911, re-renewed Aug. 11, 1953. O. G. Oct. 27.
Cake. Carolina Baking Company. 213,360, May 25, 1926. Republished Oct. 27.
Cakes, cookies, and crackers. Weston Biscuit Company Inc. 581,592, Oct. 27; Serial No. 636,263, published July 28, 1953.
Candy. Norris Inc. 581,591, Oct. 27; Serial No. 636,145, published July 28, 1953.
Candy-bars. Schutter Candy Company. 581,693, Oct. 27; Serial No. 644,797, published July 21, 1953.
Canned dietetic food products. Flotill Products, Inc. 581,556, Oct. 27; Serial No. 631,858, published July 14, 1953.
Canned, fresh, and fresh frozen vegetables. L. P. Maggioni & Company. 581,694, Oct. 27; Serial No. 645,248, published July 21, 1953.
Canned fruit. Apple Growers Association. 306,927, renewed Oct. 3, 1953. O. G. Oct. 27.
Canned ham. The Griffith Laboratories, Inc. 581,558, Oct. 27; Serial No. 632,030, published July 28, 1953.
Canned oysters and canned shrimp. L. P. Maggioni & Company. 581,634, Oct. 27; Serial No. 639,483, published July 21, 1953.
Canned sardines. William Underwood Company. 92,148, re-renewed June 17, 1953. O. G. Oct. 27.
Canned, spiced, smoked, salted and barbecued fish, herring, fresh salmon roe caviar, etc. Los Angeles Smoking & Curing Co. 581,677, Oct. 27; Serial No. 642,038, published July 14, 1953.
Canned tomatoes, canned tomato paste, cheese, etc. Jean Bart & Co., Inc. Import-Export. 581,631, Oct. 27; Serial No. 639,407, published July 28, 1953.
Canned tuna fish, crabmeat, Mandarin oranges, etc. Tozai Koeki Kaisha, Ltd. 581,659, Oct. 27; Serial No. 641,239, published July 14, 1953.
Canned vegetables. Stokely Brothers and Company. 305,310, renewed Aug. 15, 1953. O. G. Oct. 27.
Celery, Fresh. P. S. Van Doren. 581,587, Oct. 27; Serial No. 635,861, published July 21, 1953.
Cheese. L. D. Schreiber & Co., Inc. 581,431, Oct. 27; Serial No. 549,670, published Dec. 26, 1950.
Chicken, Boned fresh. Turkey Bend Farm. 581,518, Oct. 27; Serial No. 626,596, published July 14, 1953.
Chicken sandwich, chicken pie, etc., A special kind of fried. M. L. Graham. 304,047–8, renewed June 20, 1953. O. G. Oct. 27.
Coffee. The Fleming Co., Incorporated. 581,584, Oct. 27; Serial No. 635,529, published July 7, 1953.
Coffee. Jos. Martinson & Co., Inc. 581,583, Oct. 27; Serial No. 635,481, published July 14, 1953.
Coffee. Standard Brands Incorporated. 581,692, Oct. 27; Serial No. 644,464, published July 14, 1953.
Coffee, Green. J. Aron & Company, Inc. 581,695, Oct. 27; Serial No. 645,374, published July 21, 1953.
Coffee, tea, ground pepper, etc. Carolina Coffee Company. 581,484, Oct. 27; Serial No. 618,623, published July 21, 1953.
Confections, Frozen, and liquid concentrates. Fruit Products Corporation. 581,572, Oct. 27; Serial No. 633,844, published July 14, 1953.
Cookies. Safeway Stores, Incorporated. 581,665, Oct. 27; Serial No. 641,416, published July 28, 1953.
Cookies. Zion Industries, Inc. 581,461, Oct. 27; Serial No. 607,108, published June 16, 1953.
Feeds, Animal. R. G. Free. 581,687, Oct. 27; Serial No. 642,810, published July 21, 1953.
Feeds; calf meal, etc., Dairy, cattle, stock, swine, pigeon, and horse. Northern Milling Company. 581,522, Oct. 27; Serial No. 627,766, published July 28, 1953.
Feeds, Livestock and poultry. C. Halverson. 581,494, Oct. 27; Serial No. 621,061, published July 21, 1953.
Fish, Preserved. Etelberto Albuerne y Bravo. 308,644, renewed Dec. 12, 1953. O. G. Oct. 27.
Flour. The Security Milling Co., Inc. 581,681, Oct. 27; Serial No. 642,374, published July 7, 1953.
Food. Wilson & Co., Inc. 581,509, Oct. 27; Serial No. 625,086, published May 26, 1953.
Food beverage. G. W. S. Pulford. 581,491, Oct. 27; Serial No. 620,388, published July 21, 1953.
Food flavors, Natural and synthetic. Firmenich & Co. 581,458, Oct. 27; Serial No. 603,052, published July 28, 1953.
Fruit, Fresh citrus. Escondido Lemon Association. 579,240, Sept. 1, 1953. Corrected. O. G. Oct 27.
Fruits, Fresh citrus. Escondido Orange Association. 579,241–2, Sept. 1, 1953. Corrected. O. G. Oct. 27.
Ground meat, baked ham, ground meat sandwiches, etc. Steak n Shake, Inc. 581,433, Oct. 27; Serial No. 567,054, published July 14, 1953.
Hams, shoulders, bacon, etc. Colonial Provision Co., Inc. 307,590, renewed Oct. 31, 1953. O. G. Oct. 27.
Honey, Crystallized. R. D. Bradshaw & Sons. 581,676, Oct. 27; Serial No. 642,010, published July 21, 1953.
Horse radish and cocktail sauce. Andrews Horse Radish Co., Inc. 581,544, Oct. 27; Serial No. 631,036, published July 21, 1953.
Ice cream. Karl Droge—Ice Cream. 581,477, Oct. 27; Serial No. 616,086, published May 26, 1953.
Ice cream and frozen confections. The Sedutto Company. 581,460, Oct. 27; Serial No. 605,688, published July 21, 1953.
Ice cream powders and ice powders. Eskimo Pie Corporation. 306,465, renewed Sept. 19, 1953. O. G. Oct. 27.
Irish moss extractives in the pure state; Irish moss extractives with added potassium salts, used as ingredients in the manufacture of various confectionary products. Seaplant Chemical Corporation. 581,527, Oct. 27; Serial No. 629,258, published July 21, 1953.
Juices, Fruit; fruit syrups; etc. California Prune and Apricot Growers Association. 307,699, renewed Oct. 31, 1953. O. G. Oct. 27.
Lettuce, Fresh. Peter A. Stolich, Inc. 332,948, Mar. 3, 1936. Republished Oct. 27.
Meats and meat products and dressed fowl. S. & S. Heyman, Ltd. 581,441, Oct. 27; Serial No. 582,353, published July 14, 1953.
Meats, Packaged, meat pastes, etc. Aplin & Barrett Limited. 581,645, Oct. 27; Serial No. 640,387, published July 21, 1953.
Milled rice. Edmundson-Duhe Rice Mill Company, Inc. 581,650, Oct. 27; Serial No. 640,789, published July 21, 1953.
Molasses stock feed. Nixon & Company (Nebraska). 581,444, Oct. 27; Serial No. 587,578, published July 14, 1953.
Popcorn, Unpopped, popcorn popping oil, popcorn salt, etc. Ed. F. Mangelsdorf & Bro., Inc. 581,546, Oct. 27; Serial No. 631,112, published July 14, 1953.
Pork, Fresh and cured. The Danahy Packing Company. 92,539, re-renewed July 15, 1953. O. G. Oct. 27.
Poultry, Dressed. J. H. Knowles. 581,470, Oct. 27; Serial No. 612,127, published July 14, 1953.
Prepared mixture, the principal ingredients of which are wheat flour, sugar, etc. Pillsbury Mills, Inc. 581,579, Oct. 27; Serial No. 635,054, published July 14, 1953.
Rice. Farmers' Rice Growers Cooperative. 581,588, Oct. 27; Serial No. 635,910, published Mar. 10, 1953.
Rice. C. E. Grosjean Rice Milling Co. 581,443, Oct. 27; Serial No. 585,278, published July 14, 1953.
Roast beef and barbeque sauce, roast beef and gravy, etc. Land O'Frost Products. 581,478, Oct. 27; Serial No. 616,209, published July 21, 1953.

Salad dressings and remoulade sauce. C. M. Maginnis. 581,481, Oct. 27; Serial No. 617,620, published July 14, 1953.
Salad dressings, Prepared, and canned soups. T. Marzetti Company. 581,683, Oct. 27; Serial No. 642,482, published July 21, 1953.
Salami. Atlantic Trading Food Corp. 581,554, Oct. 27; Serial No. 631,716, published July 14, 1953.
Sauerkraut. Mother's Food Products, Inc. 581,646, Oct. 27; Serial No. 640,470, published July 21, 1953.
Sausage, Pork. Bird Provision Co. 581,611, Oct. 27; Serial No. 638,347, published July 28, 1953.
Seasoning. Meat Industry Suppliers, Inc. 581,552, Oct. 27; Serial No. 631,430, published July 14, 1953.
Shrimp, Fresh frozen, and fresh breaded frozen shrimp. S. L. Lewis. 581,505, Oct. 27; Serial No. 623,970, published Jan. 13, 1953.
Skim milk, Pasteurized, homogenized. The Isaly Dairy Company. 581,488, Oct. 27; Serial No. 620,103, published July 14, 1953.
Sodium carboxy methyl cellulose used as a thickening agent for foodstuffs. Dominion Tar & Chemical Company, Limited. 581,448, Oct. 27; Serial No. 592,949, published July 14, 1953.
Soups and soup bases and soup concentrates. Fearn Foods Inc. 581,476, Oct. 27; Serial No. 615,824, published July 14, 1953.
Spaghetti, macaroni, and egg noodles. Gragnano Products, Inc. 308,124, renewed Nov. 21, 1953. O. G. Oct. 27.
Vegetables, Fresh. Cutler Growers Exchange. 581,492, Oct. 27; Serial No. 620,497, published July 21, 1953.
Wheat flour. Bay State Milling Company. 308,617, renewed Dec. 12, 1953. O. G. Oct. 27.
Wheat flour. Flour Mills of America, Inc. 581,502, Oct. 27; Serial No. 622,786, published July 21, 1953.
Wheat flour. Pillsbury Mills, Inc. 581,580–1, Oct. 27; Serial Nos. 635,055–6, published July 21, 1953.
Wheat flour. The Southwestern Milling Company, Inc. 223,720, Feb. 8, 1927. Restricted. O. G. Oct. 27.
Wheat flour, Durum. Duluth Universal Milling Company. 581,464, Oct. 27: Serial No. 607,665, published July 14, 1953.

CLASS 47

Wines, Sparkling, and champagne wines. Morlant (de la Marne), Societe Anonyme. 308,318, renewed Nov. 28, 1953. O. G. Oct. 27.

CLASS 51

Hair coloring preparations. Bymart, Inc. 581,714, Oct. 27; Serial No. 613,760.

CLASS 52

Beerstone remover for use in cleaning tanks or the like, etc. A. Gusmer, Inc. 581,598, Oct. 27; Serial No. 637,179, published July 28, 1953.
Boiler cleaning compounds and water softeners. The Flox Co. 196,268, Mar. 17, 1925. Republished Oct. 27.
Cleaner, General household. S. L. Mudd. 581,725, Oct. 27; Serial No. 628,419.
Cleaner, Upholstery. S. L. Mudd. 581,724, Oct. 27; Serial No. 628,418.
Cleaning compositions. Industrial Soap Company. 581,728, Oct. 27; Serial No. 635,417.
Cleaning compound. Detergent Products Corporation. 300,284, renewed Jan. 10, 1953. O. G. Oct. 27.
Cleaning solvents. Rex Products & Manufacturing Company. 292,020, Mar. 1, 1932. Republished Oct. 27.
Detergent, Sudsing packaged. Armour and Company. 581,454, Oct. 27; Serial No. 600,755, published Apr. 7, 1953.
Detergents, Liquid. Lavery & Sanders. 581,715, Oct. 27; Serial No. 617,619.
Dry-cleaning preparations and grease solvent. Carbona Products Company. 581,528, Oct. 27; Serial No. 629,352, published July 28, 1953.
Grease detergent and solvent cleaning compounds. Rex Products & Manufacturing Company. 317,680, Oct. 2, 1934. Republished Oct. 27.
Liquid material or cleansing the pores of the body. Stanley Home Products, Inc. 581,537, Oct. 27; Serial No. 630,454, published July 28, 1953.
Shampoo. The Gillette Company. 581,574, Oct. 27; Serial No. 634,589, published July 28, 1953.
Soap powders. Rex Products & Manufacturing Company. 286,829, Sept. 8, 1931. Republished Oct. 27.
Solvent for cleaning clothes and fabrics etc. Detroit Rex Products Company. 373,027–8, Nov. 21, 1939. Republished Oct. 27.

CLASS 100

Building a fellowship of women and girls. The National Board of the Young Women's Christian Association of the U. S. A. 581,709. Oct. 27: Serial No. 519,770, published July 21, 1953.
Health counselling and care service providing for periodic medical examinations, etc. Interstate Bakeries Corporation. 581,701, Oct. 27: Serial No. 621,965, published July 21, 1953.

CLASS 101

Marketing research and store auditing service. Selling Research, Inc. 581,702, Oct. 27: Serial No. 626,752, published July 14, 1953.
Preparation, planning, detailing, printing, etc., of catalogues. Technilogs. 581,703, Oct. 27: Serial No. 630,632, published July 21, 1953.
Providing for regular purchases of securities by investors. Vance, Sanders & Company. 581,699, Oct. 27; Serial No. 612,713, published July 14, 1953.

CLASS 102

Insurance brokerage, General. R. D. Applegate. 581,704, Oct. 27; Serial No. 635,576, published July 14, 1953.
Providing and arranging credit facilities to customers, etc. Tourex Company of America, Inc. 581,706, Oct. 27; Serial No. 639,087, published July 14, 1953.
Underwriting of fire and casualty insurance. Lansing B. Warner, Incorporated. 581,700, Oct. 27; Serial No. 615,670, published July 14, 1953.

CLASS 103

Cleaning, dyeing, renovating of carpets, rugs and the like. Magikist Service Corporation. 581,697, Oct. 27: Serial No. 583,542, published July 28, 1953.
Servicing automobiles. Sun Oil Company. 581,708, Oct. 27: Serial No. 579,521, published July 21, 1953.

CLASS 105

Railroad and bus transportation of passengers, etc. The Atchison, Topeka and Santa Fe Railway Company. 581,696. Oct. 27: Serial No. 550,775, published July 21, 1953.
Transportation of general cargo by steamship. Weyerhaeuser Timber Company. 581,705, Oct. 27; Serial No. 638,114, published July 28, 1953.
Travel services. W. C. Rushmore. 581,698, Oct. 27; Serial No. 594,996, published July 14, 1953.

CLASS 106

Chemical treatment of lumber. Jordan Lumber Co. 581,707, Oct. 27; Serial No. 639,474, published July 28, 1953.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 27TH DAY OF OCTOBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bee-Line Company, assignee: *See*—
Jacobsen, Le Roy V.

Belsinger, Inc., assignee: *See*—
Belsinger, Samuel P.

Belsinger, Samuel P., assignor to Belsinger, Inc., Atlanta, Ga. Heavy-duty fiber container. Re. 23,729, Oct. 27.

Jacobsen, Le Roy V., Durant, assignor to Bee-Line Company, Davenport, Iowa. Camber and caster gauge. Re. 23,730, Oct. 27.

Miller, Herman, assignor to Miller Laundry Machinery Co., Detroit, Mich. Swingable door for tumbler type clothes washing machines. Re. 23,727, Oct. 27.

Miller Laundry Machinery Co., assignee: *See*—
Miller, Herman.

Teigman, Max, New York, N. Y. Automatic variable drive. Re. 23,728, Oct. 27.

LIST OF PLANT PATENTEES

Boerner, Eugene S., assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 1,225, Oct. 27.

Hahn, Sylvan F., Pittsburgh, Pa. Sansevieria plant. 1,224, Oct. 27.

Jackson & Perkins Company, assignee: *See*—
Boerner, Eugene S.

LIST OF DESIGN PATENTEES

Acme Steel Company, assignee: *See*—
Wilson, Allen B.

Aluminum Company of America, assignee: *See*—
Painter, David L.

Artistic Foundations, Inc., assignee: *See*—
Kahn, Mack.

Autopoint Company, assignee: *See*—
Beckstrom, Garfield L.

Bannister, Harry T., Huntington Woods, assignor to Chrysler Corporation, Highland Park, Mich. Automobile lamp lens housing. 170,674, Oct. 27.

Beckstrom, Garfield L., assignor to Autopoint Company, Chicago, Ill. Pencil or similar article. 170,675, Oct. 27.

Bourne-Vanneck, Vincent P., New York, N. Y. Strainer. 170,676, Oct. 27.

Chrisco, Thomas M., Fresno, Calif. Hoop-rolling stick or similar article. 170,677, Oct. 27.

Chrysler Corporation, assignee: *See*—
Bannister, Harry T.

Eisenfeld, Benjamin, Baltimore, Md. Combined water cooler and fan. 170,678, Oct. 27.

Columbia Protektosite Company, Inc., assignee: *See*—
Tietje, Helmut G.

Confection Cabinet Corporation, assignee: *See*—
Vitale, Santo.

Coro, Inc., assignee: *See*—
Katz, Adolph.

Daystrom Corporation, assignee: *See*—
Kaufman, Hans J.

Del Mas, Christy M., assignor to M. P. Grace, New York, N. Y. Sandwich and hors d'Oeuvre tray. 170,679, Oct. 27.

Del Mas, Christy M., assignor to M. P. Grace, New York, N. Y. Toothbrush. 170,680, Oct. 27.

Dougherty, Ray S., Kittanning, Pa. Sport shirt. 170,681, Oct. 27.

Enghauser, Winford L., Cincinnati, Ohio. Porch column. 170,682, Oct. 27.

Ercona Camera Corp., assignee: *See*—
Frank, Charles H., Jr.

Even-Pul Foundations, Inc., assignee: *See*—
Rosner, Leonard A.

Fischer, Joseph, Pelham Manor, N. Y. Rearview mirror. 170,683, Oct. 27.

Fischer, Joseph, Pelham Manor, N. Y. Rearview mirror. 170,684, Oct. 27.

Fischer, Joseph, Pelham Manor, N. Y. Rearview mirror. 170,685, Oct. 27.

Frank, Charles H., Jr., Merrick, assignor to Ercona Camera Corp., New York, N. Y. Camera. 170,686, Oct. 27.

Frank, Charles H., Jr., Merrick, assignor to Ercona Camera Corp., New York, N. Y. Camera. 170,687, Oct. 27.

Gerlach, John N., Santa Ana, Calif. Ratchet wrench. 170,688, Oct. 27.

Godfredsen, Dee E., Santa Monica, Calif. Apron or similar article. 170,689, Oct. 27.

Grace, Michael P., assignee: *See*—
Del Mas, Christy M.

Green, Marvin E., Los Angeles, Calif. Shadow box. 170,690, Oct. 27.

Hawkinson, Earle W., assignor to Paul E. Hawkinson Co., Minneapolis, Minn. Tire. 170,691, Oct. 27.

Hawkinson, Paul E., Co., assignee: *See*—
Hawkinson, Earle W.

Howard Company, The, assignee: *See*—
Ringwall, Edward D.

Jacoby-Bender, Inc., assignee: *See*—
Rodriguez, Emil.

Jacoby, Franklyn W., New York, N. Y. Serving table. 170,692, Oct. 27.

Johnson, Imogene H., Tulsa, Okla. Automobile. 170,693, Oct. 27.

Kahn, Mack, Cedarhurst, assignor to Artistic Foundations, Inc., New York, N. Y. Girdle. 170,694, Oct. 27.

Kane, Stanley W., Racine, Wis. Combined garbage and trash can holder. 170,695, Oct. 27.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 170,696, Oct. 27.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 170,697, Oct. 27.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 170,698, Oct. 27.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 170,699, Oct. 27.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 170,700, Oct. 27.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 170,701, Oct. 27.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Link chain for a bracelet or the like. 170,702, Oct. 27.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 170,703, Oct. 27.

Kaufman, Hans J., Allegany, assignor to Daystrom Corporation, Olean, N. Y. Chair. 170,704, Oct. 27.

Krueger, Clarence H., Bovey, Minn. Gun cabinet. 170,705, Oct. 27.

Lee Rubber & Tire Corporation, assignee: *See*—
Nellen, Arthur H.

Lents, Rex V., Dallas, Tex. Toy savings bank. 170,706, Oct. 27.

Lindgren, Edwin G., La Grange Park, Ill. Vending stand. 170,707, Oct. 27.

Lipman, Herman, New York, N. Y. Dress ensemble. 170,708, Oct. 27.

Lund, Henry E., Racine, Wis. Electric motor. 170,709, Oct. 27.

Midhurst China Company, Inc., assignee: *See*—
Zeisel, Eva.

Mullins, Manufacturing Corporation, assignee: *See*—
Stanitz, Jacques.

Nellen, Arthur H., assignor to Lee Rubber & Tire Corporation, Philadelphia, Pa. Vehicle tire. 170,710, Oct. 27.

Nellen, Arthur H., assignor to Lee Rubber & Tire Corporation, Philadelphia, Pa. Vehicel tire. 170,711, Oct. 27.

Painter, David L., Evanston, Ill., assignor to Aluminum Company of America, Pittsburgh, Pa. Banquet cover. 170,712, Oct. 27.

Pardey, William A., Portland, Oreg. Ozone generator unit. 170,713, Oct. 27.

Peters, Mary W., Boulder, Colo. Doll. 170,714, Oct. 27.

Pusecker, Wilma D., Columbus, Ohio. Bowl. 170,715, Oct. 27.

Reseska, Helen M., Brooklyn, N. Y. Cigarette. 170,716, Oct. 27.

Riesman, Myer, Chestnut Hill, Mass., assignor to Royal Electric Company, Inc., Pawtucket, R. I. Ornament for candlelights. 170,717, Oct. 27.

Ringwall, Edward D., West Haven, assignor to The Howard Company, New Haven, Conn. Combination outdoor fireplace and grill. 170,718, Oct. 27.

Rodriguez, Emil, assignor to Jacoby-Bender, Inc., New York, N. Y. Expansible link chain for a bracelet or the like. 170,719, Oct. 27.

Rodriguez, Emil, assignor to Jacoby-Bender, Inc., New York, N. Y. Expansible link chain for a bracelet or the like. 170,720, Oct. 27.

Rosenau Brothers, Inc., assignee: *See*—
Tilhou, Barbara C.

Rosner, Leonard A., Great Neck, assignor to Even-Pul Foundations, Inc., New York, N. Y. Panty girdle. 170,721, Oct. 27.

Royal Electric Company, Inc., assignee: *See*—
Riesman, Myer.

Sabo, Frank J.: *See*—
Secosky, John J., and Sabo.

Sager, Abraham G., Chicago, Ill. Finger ring. 170,722, Oct. 27.

Secosky, John J., and F. J. Sabo, United, Pa. Sun tanning shirt. 170,723, Oct. 27.

Stahl, Gerald, Rye, N. Y., assignor to The Stanley Works, New Britain, Conn. Combination door knocker and pull. 170,724, Oct. 27.

Stahl, Gerald, Rye, N. Y., assignor to The Stanley Works, New Britain, Conn. Hinge. 170,725, Oct. 27.

Stahl, Gerald, Rye, N. Y., assignor to The Stanley Works, New Britain, Conn. Bar latch. 170,726, Oct. 27.

Stanitz, Jacques, Warren, assignor to Mullins Manufacturing Corporation, Salem, Ohio. Corner sink. 170,727, Oct. 27.

Stanley Works, The, assignee: *See*—
Stahl, Gerald.

Tavolazzi & Fumagalli, assignee: *See*—
Tavolazzi, Giuseppe.

Tavolazzi, Giuseppe, Como, assignor to Tavolazzi & Fumagalli, Milan, Italy. Double toolbox. 170,728, Oct. 27.

Tietje, Helmut G., Cresskill, N. J., assignor to Columbia Protektosite Company, Inc. Pair of goggles. 170,729, Oct. 27.

Tietje, Helmut G., Cresskill, N. J., assignor to Columbia Protektosite Company, Inc. Pair of goggles. 170,730, Oct. 27.

Tilhou, Barbara C., Philadelphia, Pa., assignor to Rosenau Brothers, Inc. Dress. 170,731, Oct. 27.

Vitale, Santo, New Hyde Park, N. Y., assignor to Confection Cabinet Corporation, Newark, N. J. Beverage dispenser display. 170,732, Oct. 27.

Wilson, Allen B., Evanston, assignor to Acme Steel Company, Chicago, Ill. Floor plate. 170,733, Oct. 27.

Wright, Edward E., San Diego, Calif. Washcloth. 170,734, Oct. 27.

Zeisel, Eva, assignor to Midhurst China Company, Inc., New York, N. Y. Dish or the like. 170,735, Oct. 27.

Zon, Louis A., Buffalo, N. Y. Combined food and beverage vending station. 170,736, Oct. 27.

Zon, Louis A., Buffalo, N. Y. Combined food and beverage vending station. 170,737, Oct. 27.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 27TH DAY OF OCTOBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Actis, Paul, Fontaine, France. Presser device for shoe sewing machines. 2,656,802, Oct. 27.

Adamson, Frank M.: *See*—
Cadwell, Clarence J., and Adamson.

Adamson United Company, assignee: *See*—
Collins, Don F.

Aeroflex Laboratories, Inc., assignee: *See*—
Tschudi, Erwin W.

Aeronautical Communications Equipment, Inc., assignee: *See*—
Epperson, William H.

Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Alexander, Kliem, and Schniepp.
Davis, Howard A., Wolff, and Cluskey.
Pfeifer, Virgil F., Nelson, Vojnovich, and Lockwood.

Aguilar, John G., and W. A. Cox, San Francisco, Calif. Fruit stemming machine. 2,656,867, Oct. 27.

Airkem, Inc., assignee: *See*—
Meek, George W.

Airtron, Inc., assignee: *See*—
Carr, Robert S.

Aktiebolaget Separator, assignee: *See*—
Bierke, Svante F. N.

Aktiebolaget Tegelindustriella Bryan, assignee: *See*—
Nilsson, Hans E.

Aktiebolaget Wicanders Korkfabriker, assignee: *See*—
Wolke, Berndt S.

Albritton, John W., Pasadena, Calif. Cutting implement. 2,656,601, Oct. 27.

Aleshin, William N., South Windsor, Conn. Plant tying machine. 2,656,538, Oct. 27.

Alexander, Edgar C.: *See*—
Nels, Harry B., and Wood.

Alexander, Kliem, and L. E. Schniepp, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture. Hydrogenation derivatives of difurfuralacetone. 2,657,220, Oct. 27.

Allen, Arthur C., assignor to Stewart-Warner Corporation, Chicago, Ill. Apparatus for indicating unbalance in rotary bodies. 2,656,713, Oct. 27.

Allen, Charles F. H., and D. M. Burness, assignors to Eastman Kodak Company, Rochester, N. Y. 2,6-di-tertiary alkyl quinones and preparing same. 2,657,222, Oct. 27.

Allis-Chalmers Manufacturing Company, assignee: *See*—
Harrer, Paul H.

Alton Box Board Company, assignee: *See*—
Breyfogle, Roy H.

Altvater, Adolf H., Chesterfield, assignor to Western Supplies Company, St. Louis, Mo. Shoe back line press. 2,656,554, Oct. 27.

Aluminum Industries, Inc., assignee: *See*—
Beckmann, Melbourne A.

Aluminum Laboratories Limited, assignee: *See*—
Phillips, Norman W. F., Hollingshead, and Mutchmor.

American Can Company, assignee: *See*—
Baker, Harry.
McDonough, Marshall J., and Burchett.

American Cyanamid Company, assignee: *See*—
Ashley, Kenneth D.
Daniel, John H., Landes, and Suen.
Dudnikov, Mitchell.

American Defibrator, Inc., assignee: *See*—
Messing, Hjalmar S.

American Desk Manufacturing Company, assignee: *See*—
Brashear, Arthur P., Jr.

American Electro Metal Corporation, assignee: *See*—
Sindeband, Seymour J., Stern, and Scanlan.
Stern, George, Sindeband, and Scanlan.

American Linen Supply Co., assignee: *See*—
Birr, Rudolph G., and Jespersen.

American Locomotive Company, assignee: *See*—
Nichols, William M.

American Machine & Foundry Company, assignee: *See*—
Bechtold, Henry L.
Gurley, Martin H., Jr.

American Manufacturing Company, Inc., assignee: *See*—
Croston, Edward L.

American Partition Corporation, assignee: *See*—
Schroeder, Simon E.

American Stay Company, assignee: *See*—
Luitwieler, Edward B.

American Steel Foundries, assignee: *See*—
Cottrell, Robert B.
Flesch, John E.
Ramos, Lawrence F.
Tack, Carl E.

American Tag Company, assignee: *See*—
Swett, Robert W.

American Viscose Corporation, assignee: *See*—
Francis, Carleton S., Jr.
Nelson, Seddon C.

Ammarell, Theresa L., Brooklyn, assignor to Richard Hudnut, New York, N. Y. Bottle. 2,656,842, Oct. 27.

Anderson, A. C., Inc., assignee: *See*—
Anderson, Arthur C.

Anderson, Arthur C., Wildwood Crest, assignor to A. C. Anderson, Inc., Wildwood, N. J. Flow control valve. 2,656,846, Oct. 27.

Anderson, Carl A.: *See*—
Danielson, Vernon S., and Anderson.

Anderson, Carl E., Manasquan, assignor to Eastern Tool & Mfg. Co., Belleville, N. J. Key case. 2,656,871, Oct. 27.

Anderson, Floyd E.: *See*—
Mast, George W., and Anderson.

Andrus, Orrin E., assignor to A. O. Smith Corporation, Milwaukee, Wis. Method and apparatus for manufacturing composite plates. 2,657,298, Oct. 27.

Antony, William E., Shreveport, La. Directional antenna system. 2,657,313, Oct. 27.

Apel, George E., Belmont, Mass., and D. F. Collins, Pontiac, Mich., assignors to Boston Woven Hose and Rubber Company, Cambridge, Mass. Vulcanizing machine. 2,656,565, Oct. 27.

Apgar, Charles W., Philadelphia, assignor to Seaboard Container Corporation, Bristol, Pa. Apparatus for handling corrugated paperboard. 2,657,044, Oct. 27.

Arent, Arthur, Fort Dodge, assignor to Arthur Arent Laboratories Inc., Des Moines, Iowa. Forming a corrosion resistant paint and product resulting therefrom. 2,657,145, Oct. 27.

Arent, Arthur, Laboratories Inc., assignee: *See*—
Arent, Arthur.

Arid-Aire Manufacturing Company, assignee: *See*—
Tomlinson, Ben L.
Tomlinson, Ben L., and Carlson.

Armco Steel Corporation, assignee: *See*—
Jennings, Paul A.

Armour and Company, assignee: *See*—
Borkenhagen, Louise K.

Arms, Milo F.: *See*—
Smith, Chauncey W., and Arms.

Armstrong Cork Company, assignee: *See*—
Metcalf, William A.
Phillips, Washington H., and Gard.

Army, United States of America as represented by the Secretary of the, assignee: *See*—
Harmon, Elise F., and Franklin.
Stevens, Charles H., and Maier.

Arrow Safety Device Company, assignee: *See*—
Hopkins, Alfred, Jr.

Arthur, Evan M., West Heath, Birmingham, England. Valve spring lifter. 2,656,597, Oct. 27.

Aschwanden, Paul, assignor to Verwaltungsgesellschaft der Werkzeugmaschinenfabrik Oerlikon, Zurich, Switzerland. Gauge for adjusting blanks in gear cutting machines. 2,656,612, Oct. 27.

Ashley, Kenneth D., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Manufacture of alkali metal-free alumina. 2,657,115, Oct. 27.

Ashley, Kenneth D., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Alumina gel-containing catalysts. 2,657,184, Oct. 27.

Ateliers de Constructions Electriques de Charleroi, assignee: *See*—
Meunier, Marcel.

Atkinson, Joseph, London, England. Turbine or like rotor. 2,657,008, Oct. 27.

Atlas Powder Company, assignee: *See*—
Kasehagen, Leo.
Kass, Peter.

Augustadt, Herbert W., Westfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic volume control. 2,657,264, Oct. 27.

Aurora Research Industries, Inc., assignee: *See*—
McDonald, Dan.

Austin, Ralph W., Weymouth, assignor to Badger Fire Extinguisher Company, Somerville, Mass. Portable pump apparatus of the shoulder pack type. 2,656,958, Oct. 27.

Auto-Bye Company, assignee: *See*—
Reinhols, William H.

Autogiro Company of America, assignee: *See*—
Campbell, Harris S.

Automatic Devices Corporation, assignee: *See*—
Johnson, Arthur A.

Avansino, John E., Linden, Calif. Tree shaking mechanism. 2,656,669, Oct. 27.

Avco Manufacturing Corporation, assignee: *See*—
Miller, Lewis L.
Runft, Arthur J.

Backlund, John R., and V. E. Flanders, assignors to Eureka Williams Corporation, Bloomington, Ill. Garbage disposal apparatus. 2,656,985, Oct. 27.

Badger Fire Extinguisher Company, assignee: *See*—
Austin, Ralph W.

Baker, Harry, Wentworth County, Ontario, Canada, assignor to American Can Company, New York, N. Y. Article feeding mechanism with separator means actuated by feeding means. 2,657,049, Oct. 27.

Balde, John W., Morristown, N. J., and J. C. Bregar, and K. L. Chapman, Winston-Salem, N. C., assignors to Western Electric Company, Incorporated, New York, N. Y. Positive feedback pulse generator. 2,657,307, Oct. 27.

Banes, Fred W., Westfield, A. M. Gessler, Cranford, and W. F Fischer, Roselle Park, N. J., assignors to Standard Oil Development Company. Blends of polybutadiene and butadieneacrylonitrile copolymer. 2,657,190, Oct. 27.

Bär, Max, Augsburg-Goggingen, assignor to "Knotex" Maschinenbau G. m. b. H., Augsburg-Stadtbergen, Germany. Thread gripper. 2,656,583, Oct. 27.

Barbee, Floyd R., San Gabriel, Calif. Paring knife having water discharging means. 2,656,600, Oct. 27.

Barclay, Robert E., Los Angeles, assignor to Helipot Corporation, South Pasadena, Calif. Potentiometer. 2,657,295, Oct. 27.

Bardeen, Thomas, Penn Township, Allegheny County, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Suspension system for seismograph detectors. 2,657,374, Oct. 27.

Barillier, Lowrie C.: *See*—
Kestner, William N., Kohfeldt, and Barillier.

Barlow, Thomas E., Jackson, Ohio, assignor, by mesne assignments, to International Minerals & Chemical Corporation, Chicago, Ill. Foundry composition and method. 2,657,113, Oct. 27.

Barney, Arthur L., and P. S. Pinkney, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Aromatic substituted halo-butynes. 2,657,244, Oct. 27.

Barsby, Edward S., and A. P. Saunders, assignors to Wildt and Company Limited, Leicester, England. Flat knitting machine. 2,656,694, Oct. 27.

Bartle, George R., Metuchen, N. J., assignor to Johnson & Johnson. Wrapping and sealing machine. 2,656,657, Oct. 27.

Batchlet, Robert L., Cleveland Heights, Ohio. Confection package and toy structure. 2,657,144, Oct. 27.

Bates, Harold: *See*—
Fisher, James W., Bates, and Wheatley.

Bates, James E., Chenango Bridge, assignor to General Aniline & Film Corporation, New York, N. Y. Removing color developer stain in azine dye images. 2,657,139, Oct. 27.

Bausch & Lomb Optical Company, assignee: *See*—
Bowerman, Clarence J.
Kreidl, Norbert J.
Stegeman, Raymond F. E.

Bayer, Frank C.: *See*—
Noon, T. Cyril, and Bayer.

Bayston, John R., assignor to J. R. Bayston, as trustee, Icecrafter (Liquidating) Trust, Van Nuys, Calif. Ice-making machine. 2,656,686, Oct. 27.

Beaver, Richard W., and C. P. Sweeny, assignors to Electro-Plastic Fabrics, Incorporated, Pulaski, Va. Flexible thermoplastic fastener. 2,656,541, Oct. 27.

Bechtold, Henry L., Grantwood, N. J., assignor to American Machine & Foundry Company. Cigarette machine inking mechanism. 2,656,789, Oct. 27.

Bechtold, Max F., Kennett Square, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing a homogeneous aqueous colloidal dispersion of silica and a hydrous oxide of zinc, aluminum, tin, or columbium and the resulting product. 2,657,183, Oct. 27.

Becker, Frank M., Sinking Spring, Pa. Snowplow. 2,656,623, Oct. 27.

Becker, Philip S., Fairview Township, Erie County, Pa. Power-operated vise. 2,656,820, Oct. 27.

Beckmann, Melbourne A., assignor to Aluminum Industries, Inc., Cincinnati, Ohio. Packaging article. 2,656,931, Oct. 27.

Bedford, Alda V., Princeton, N. J., assignor to Radio Corporation of America. Color television system. 2,657,253, Oct. 27.

Bedker, Emma G., assignee: *See*—
Bedker, Leo W.

Bedker, Leo W., assignor of one-half to E. G. Bedker, East Detroit, Mich. Making thread cutting taps. 2,656,740, Oct. 27.

Behnisch, Robert: *See*—
Klarer, Joseph, and Behnisch.
Schmidt, Hans, Mietzsch, and Behnisch.

Behrens, Herbert C., assignor to Diebold, Incorporated, Canton, Ohio. Combination lock. 2,656,705, Oct. 27.

Bell & Gassett Company, assignee: *See*—
Hofmeister, Maurice H.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Augustadt, Herbert W.
Dimond, Thomas L.
Gray, Frank.
Henry, Israel H.
Hersey, Ralph E.
Hoth, Daniel F., and Soffel.
Maloney, Martin E.
Mogler, John H.
Ostendorf, Bernard, Jr., and Vanderlippe.
Rack, Alois J.
Rea, Wilton T.
Retallack, John B.
Wallace, Robert L., Jr.
West, John W.
Wintringham, William T.
Ziegler, Arthur W.

Bellini, Eugene, Jackson, Ala., assignor to Vanity Fair Mills, Inc., Reading, Pa. Rocker arm for knitting machines and the like. 2,656,729, Oct. 27.

Belmont, Frank, Anaheim, Calif. Bagging machine. 2,657,003, Oct. 27.

Bendix Aviation Corporation, assignee: *See*—
Buxton, James E., and Christian.
Jarvis, John.
Rossire, Francis H. S.

Bennett, Earl F., and O. Jarvis, Houston, Tex. Refuse receptacle holder. 2,657,001, Oct. 27.

Bennie, Frank K., assignee: *See*—
Holst, John C.

Bennie, Lynn W., assignee: *See*—
Holst, John C.
Benninghofen, Paul, trustee, assignee: *See*—
Waechter, Harry J.

Benson, Ralph A., McKeesport, Pa. Exhaust for clothes driers. 2,656,784, Oct. 27.

Bergan, Martin D., Westfield, assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 2,657,251, Oct 27.

Bergen, George, Greendale-on-Hudson, N. Y. Artist's palette. 2,656,633, Oct. 27.

Berggren, George E., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for extruding plastic material. 2,656,566, Oct. 27.

Berghoff, Matthew W.: *See*—
Creson, William K., Newman, and Berghoff.

Berman, Hans, Forest Hills, N. Y., and S. Katz, assignors to Conmar Products Corporation, Newark, N. J. Electrodeposition of copper and copper alloys upon zinc and zinc alloys. 2,657,176, Oct. 27.

Bescocca, Luis, Florida, Buenos Aires, Argentina. Automatic control device. 2,657,291, Oct. 27.

Bevington, Kenneth A., Evanston, Ill. Ice-cream bar bagging machine. 2,656,961, Oct. 27.

Bierke, Svante F. N., Lidingo, assignor to Aktiebolaget Separator, Stockholm, Sweden. Refining of fatty oils, especially vegetable oils. 2,657,224, Oct. 27.

Bigsby, Vernon L., Malvern, and A. J. Petraline, Phoenixville, assignors to Warner Company, Philadelphia, Pa. Chemical reactor. 2,657,120, Oct. 27.

Billman, Carl A., Rochester, N. Y. Milling cutter. 2,656,591, Oct. 27.

Birdsall, Elmer R., Mount View, Alaska. Can opener. 2,656,598, Oct. 27.

Birmingham Tool & Gauge Company Limited, assignee: *See*—
Tallis, Charles E.

Birr, Rudolph G., Lombard, and P. W. Jespersen, Wilmette, Ill., assignors to American Linen Supply Co., Carson City, Nev. Fabric measuring and inspection machine. 2,656,756, Oct. 27.

Bisaga, Theodore, and D. Peczeniuk, Detroit, Mich. Folding tray structure for automobile instrument panels. 2,657,107, Oct. 27.

Bishop, J., & Co. Platinum Works, assignee: *See*—
Hickey, George M.

Bituminous Coal Research, Inc., assignee: *See*—
Hatton, Willard J.

Black, Sivalls & Bryson, Inc., assignee: *See*—
Coffman, Robert S.

Blackman, Fred T., Newington, assignor to Veeder-Root, Inc., Hartford, Conn. Keying device. 2,657,082, Oct. 27.

Blaisse, Berndt S., Voorburg, assignor to N. V. Optische Industrie "De Oude Delft," Delft, Netherlands. Large-aperture optical system comprising two reflecting and refracting spherical surfaces in axial alignment. 2,656,761, Oct. 27.

Blanke, Nathan E., and H. J. Sands, assignors to The Harvard Manufacturing Company, Cleveland, Ohio. Divan with shiftable back. 2,656,548, Oct. 27.

Blicke, Frederick F., assignor to Regents of The University of Michigan, Ann Arbor, Mich. Preparing 1-methyl-4-phenyl-4-cyanopiperidine. 2,657,208, Oct. 27.

Bloch, Erich, New York, N. Y. Support for manikins. 2,656,957, Oct. 27.

Bloch, Herman S., Chicago, and H. E. Mammen, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Resinous condensation products from an aldehyde or ketone with a chroman, thiachroman, coumaran, or benzodihydrothiafuran. 2,657,193, Oct. 27.

Blouin, Arthur E.: *See*—
Cowie, Wilbur E., and Blouin.

Bondy, Wilhelm, Fribourg, Switzerland. Waterproof watchcase. 2,656,674, Oct. 27.

Bonelli Cattle Company, assignee: *See*—
Webster, Vey V.

Boonton Radio Corporation, assignee: *See*—
Crosby, Murray G.

Booth, Harry T., assignor to United Aircraft Products, Inc., Dayton, Ohio. Automatic cutoff device. 2,656,855, Oct. 27.

Borgerd, William F., Evansville, Ind., assignor to International Harvester Company. Overload limiting device. 2,656,685, Oct. 27.

Borkenhagen, Louise K., assignor to Armour and Company, Chicago, Ill. Preparing amino acids. 2,657,232, Oct. 27.

Boston Woven Hose and Rubber Company, assignee: *See*—
Apel, George E., and Collins.

Boulicault, Marcel, St. Louis, Mo. Teeth cleaning unit. 2,656,843, Oct. 27.

Bowerman, Clarence J., Pittsford, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Microscope nosepiece. 2,656,759, Oct. 27.

Bowerman, Clarence J., Pittsford, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Slide clamping mechanism for mechanical stages for microscopes. 2,656,760, Oct. 27.

Bowser, Inc., assignee: *See*—
Dolan, Richard L.

Boyce, John, San Jose, and J. C. Olsen, Campbell, Calif., assignors to Food Machinery and Chemical Corporation. Container feed and discharge mechanism. 2,656,911, Oct. 27.

Boyd, Roy W., Jr., Chicago, Ill. Tool holding collet for boring bar assemblies. 2,657,066, Oct. 27.

Boyden, Robert E., Los Angeles, assignor to Clary Multiplier Corporation, San Gabriel, Calif. Differential actuator motion transmission means. 2,656,975, Oct. 27.

Braddon, Frederick D. Babylon, assignor to The Sperry Corporation, Great Neck, N. Y. Gravitational torquing means for gyro instruments. 2,656,726, Oct. 27.

Brady, Edward F., Long Beach, Calif., assignor to Eastman Oil Well Survey Company, Denver, Colo. Core orienting apparatus and method. 2,657,013, Oct. 27.

Brandon, Arthur H., Long Beach, Calif. Adjustable belly spring. 2,656,890, Oct. 27.

Brandt, Walter, Jersey City, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Signal receiver circuit. 2,657,308, Oct. 27.

Branson, John C. S., Harborne, Birmingham, and L. C. Branson, Leicester, England. Amplifying device for use with telephone apparatus. 2,657,265, Oct. 27.

Branson, Leslie C.: *See*—
Branson, John C. S. and L. C.

Brashear, Arthur P., Jr., assignor to American Desk Manufacturing Company, Temple, Tex. Desk arm brace. 2,656,879, Oct. 27.

Brasington, Charles P., Lake Mary, Fla. Material retaining end plate for roller mills. 2,656,986, Oct. 27.

Brassie, Jerome E., assignor to The Dentists' Supply Company of New York, York, Pa. Instrument for relating casts to dental articulators. 2,656,603, Oct. 27.

Brastad, William A., Minneapolis, Minn., assignor to General Mills, Inc. Demagnetizer for magnetic recorder-reproducer. 2,657,277, Oct. 27.

Braun, Adolph F., Davison, assignor to General Motors Corporation, Detroit, Mich. Antistall device. 2,657,037, Oct. 27.

Breckovich, Joseph N., Gary, Ind. Auxiliary spring device for motor vehicles. 2,657,042, Oct. 27.

Bregar, Joseph C.: *See*—
Balde, John W., Bregar, and Chapman.

Bretschneider, Otto, assignor to Deutsche Gold-und Silber-Scheideanstalt vormals Roessler, Frankfurt am Main, Germany. High-temperature electric furnace and operation. 2,657,247, Oct. 27.

Breyfogle, Roy H., assignor to Alton Box Board Company, Alton, Ill. Primary suction drum assembly. 2,656,768, Oct. 27.

Bright, Wilfred, Toledo, Ohio. Ratchet tool with angularly adjustable handle. 2,656,865, Oct. 27.

Bristol, Edward S., assignor to Leeds and Northrup Company, Philadelphia, Pa. Multiple unit control system. 2,657,347, Oct. 27.

British Celanese Limited, assignee: *See*—
Fisher, James W., Bates, and Wheatley.

Brooks, Linzy W., assignor to On-A-Lite Corporation, Portland, Oreg. Electrical socket connector with supporting clip. 2,657,367, Oct. 27.

Brooks, Philip K.: *See*—
Knott, Edward E., and Brooks.

Broos, Henricus A., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Physiological tone control circuit. 2,657,363, Oct. 27.

Brosseit, Mary A., Chicago, Ill. Figure toy with spinning element. 2,656,643, Oct. 27.

Brouwer, Cornelis, Beverwijk, Netherlands. Acidproofing the surface of porous calcareous articles. 2,657,154, Oct. 27.

Brown, Henry R., Jr., Downey, Calif., assignor to North American Aviation, Inc. Potentiometer compensating machine. 2,657,296, Oct. 27.

Brownstein, Louis: *See*—
Kurnick, Abraham, and Brownstein.

Brunberg, Nita C., assignee: *See*—
Brunberg, Paul E.

Brunberg, Paul E., assignor, by mesne assignments, of one-half to N. C. Brunberg, Detroit, Mich. Gas control valve. 2,656,856, Oct. 27.

Brunner, Albert, Jennings, assignor to Wagner Electric Corporation, St. Louis, Mo. Disk type fluid pressure seal. 2,656,680, Oct. 27.

Brunson Instrument Co., assignee: *See*—
Moore, William D.

Bryan, Freel F., Buffalo, N. Y. Device for facilitating the swallowing of pills, tablets, capsules, and the like. 2,656,837, Oct. 27.

Buchner, Robert B., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Line circuit without relays. 2,657,270, Oct. 27.

Buechek, John, assignor to Paper Art Company, Inc., Indianapolis, Ind. Bulk paper plate wrapping machine. 2,656,659, Oct. 27.

Bugenhagen, George H., Minot, N. Dak. Panel edge grooving attachment for electric handsaws. 2,656,863, Oct. 27.

Bullard Company, The, assignee: *See*—
Bullard, Edward P., and Tomenceak.

Bullard, Edward P., III, Fairfield, and A. A. Tomenceak, Bridgeport, Conn., assignors to The Bullard Company. Floating chuck. 2,657,064, Oct. 27.

Bunch, Peter, Chicago, P. Mittomme, Cicero, and R. Jennings, assignors to Wilson-Jones Company, Chicago, Ill. Casemaker. 2,656,551, Oct. 27.

Buntin, George A., assignor to Hercules Powder Company, Wilmington, Del. Chlorinated camphor and fenchone as insecticides. 2,657,164, Oct. 27.

Buntin, George A., assignor to Hercules Powder Company, Wilmington, Del. Chlorinated dicyclohexadiene and insecticidal compositions containing the same. 2,657,165, Oct. 27.

Buntin, George A., assignor to Hercules Powder Company, Wilmington, Del. Polychloro bicyclo heptanes as insecticides. 2,657,168, Oct. 27.

Burchett, Estill E.: *See*—
McDonough, Marshall J., and Burchett.

Burgison, Raymond M., and S. E. Forman, Baltimore, and D. G. Zink, Linthicum, Md., assignors, by mesne assignments, to National Distillers Products Corporation, New York, N. Y. Removal of oxygenated organic compounds from hydrocarbons. 2,657,227, Oct. 27.

Burkardt, Anton F., New York, N. Y., assignor to Sativa Corporation. Making yarns. 2,656,671, Oct. 27.

Burness, Donald M.: *See*—
Allen, Charles F. H., and Burness.

Burns & Russell Company of Baltimore City, assignee: *See*—
Russell, Alexander H.

Burroughs Wellcome & Co. (U. S. A.) Inc., assignee: *See*—
Copp, Frederick C.
Hitchings, George H., Russell, and Falco.

Busse, Herman, Brooklyn, assignor to Milton C. Johnson Co., New York, N. Y. Spiral coil loose-leaf binder and the like. 2,657,071, Oct. 27.

Butler, Ernest L., Lynn, and O. M. Holmes, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,656,552, Oct. 27.

Butler, Judson C., Concord, and D. C. McGowan, Richmond, assignors to California Research Corporation, San Francisco, Calif. Linear polyesters from stilbene dicarboxylic acids. 2,657,194, Oct. 27.

Buxbaum, Mac, and M. Lebensfeld, Flushing, N. Y. Knitting device. 2,656,690, Oct. 27.

Buxton, James E., and F. T. Christian, Elmira, N. Y., assignors to Bendix Aviation Corporation. Engine starter gearing. 2,656,727, Oct. 27.

C B S-Columbia Inc., assignee: *See*—
Kay, Leopold M.

Cadwell, Clarence J., Carpinteria, and F. M. Adamson, Los Angeles, assignors to The Cadwell Corporation, Beverly Hills, Calif. Film mount slide. 2,656,631, Oct. 27.

Cadwell Corporation, The, assignee: *See*—
Cadwell, Clarence J., and Adamson.

California Research Corporation, assignee: *See*—
Butler, Judson C., and McGowan.
Toland, William G., Jr.

Campbell, Harris S., Bryn Athyn, assignor to Autogiro Company of America, Philadelphia, Pa. Aircraft sustaining rotor blade with suction system for boundary layer control. 2,656,892, Oct. 27.

Caparone, Michael J., Arcadia, Calif., assignor to Robertshaw-Fulton Controls Company, Greensburg, Pa. Thermostatic control device for water heaters. 2,656,984, Oct. 27.

Capehart-Farnsworth Corporation, assignee: *See*—
Lapish, Arlington V.

Carbary, Edward M., South Acton, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Attaching clip. 2,656,577, Oct. 27.

Carlson, Donald E.: *See*—
Tomlinson, Ben L., and Carlson.

Carlson, Earl J.: *See*—
Folt, Vernon L., and Carlson.

Carlson, Earl J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Copolymers of vinylidene cyanide with unsaturated aliphatic carboxylic acids. 2,657,197, Oct. 27.

Carlton Corporation, The, assignee: *See*—
Sattler, Gustav, Jr.

Carnahan, James E., New Castle, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparing dicarboxylic acid chlorides. 2,657,233, Oct. 27.

Carr, James P., Lansing, Mich., assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Wheel mirror assembly. 2,656,762, Oct. 27.

Carr, Lillian E., Washington, D. C. Stocking drying apparatus. 2,656,932, Oct. 27.

Carr, Robert S., Maplewood, assignor to Airtron, Inc., Linden, N. J. Pressure containing flexible wave guide. 2,657,364, Oct. 27.

Carruth, Herman A., Northford, assignor to National Folding Box Company, Inc., New Haven, Conn. Can carrier. 2,656,960, Oct. 27.

Cartier, William O., assignor to The McPhar Engineering Company of Canada Limited, Toronto, Ontario, Canada. Method and apparatus for nondestructive investigation of magnetostrictive solids. 2,656,714, Oct. 27.

Cataldo, John B., Bernardsville, and E. D. Tidd, Clinton, N. J., assignors to John B. Pierce Foundation, New York, N. Y. Manufacturing snap disk springs. 2,656,592, Oct. 27.

Cavallier, Jean A., Nancy, assignor to Société Pompes Noel, Liverdun (Meurthe-et-Moselle), France. Coated pipe. 2,656,857, Oct. 27.

Certain-Teed Products Corporation, assignee: *See*—
Hoggatt, Gilbert A.

Chaffin, Ralph S.: *See*—
Lucas, Guy L., Edwards, and Chaffin.

Chambon, Jean L., assignor to Societe d'Etudes de Machines Specinels, Paris, France. Rotary machine for compacting loose material to solid prismatic lumps. 2,656,797, Oct. 27.

Chapin, Allen A., Driscoll, N. Dak. Projector and target game. 2,657,057, Oct. 27.

Chapin, Bryan W., Tully, assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Combined washer and extractor with resilient drive connection. 2,656,699, Oct. 27.

Chapin, Bryan W., Cortland, N. Y. Washing machine. 2,656,702, Oct. 27.

Chapman, Kenneth L.: *See*—
Balde, John W., Bregar, and Chapman.

Chaudoye, Noëlle, Paris, and A. Fourdeux, Puteaux, assignors to Compagnie des Freins & Signaux Westinghouse, Paris, France. Continuous preparation of crystals. 2,657,122, Oct. 27.

Chemische Fabriek L. van der Grinten, assignee: *See*—
Kessels, Franciscus A. H.

Chilton, William D., Royal Oak, assignor to General Motors Corporation, Detroit, Mich. Hog ring clinching tool. 2,656,539, Oct. 27.

Chinchole, Henri A., Paris, France. Lubricating apparatus operating through shaking of the lubricant for settling same. 2,656,952, Oct. 27.

Christian, Frank T.: *See*—
Buxton, James E., and Christian.

Ciba Limited, assignee: *See*—
Koch, Jacob, and Kern.
Moser, Eduard.
Widmer, Willy, and Fasciati.

Ciba Pharmaceutical Products, Inc., assignee: *See*—
Ruzicka, Leopold, and Jeger.

Clark, Martha M., and R. E. Hansen, Eel Rock, Calif. Mileage indicating attachment for self-propelled vehicles. 2,657,285, Oct. 27.

Clarke, Clarence M., Syracuse, assignor to United States Hoffman Machinery Corporation, New York, N. Y. Garment pressing machine. 2,656,627, Oct. 27.

Clarke, Houghton W., Bronxville, assignor of ninety-nine per cent to Mealpack Corporation, Evanston, Ill. Dish. 2,656,946, Oct. 27.

Clary Multiplier Corporation, assignee: *See*—
Boyden, Robert E.
Golemon, Valla S.

Clausen, Howard F.: *See*—
Walz, Claude W., and Clausen.

Clément, Paul G., Paris, France. Heat insulating body structure for isothermal and/or refrigerator vehicles. 2,657,088, Oct. 27.

Cleveland Trust Company, The, executor, assignee: *See*—
Heintz, James C.

Climax Molybdenum Company, assignee: *See*—
Leavenworth, Edgar K.

Clinton, Raymond O., Rensselaer, and S. C. Laskowski, Menands, assignors to Sterling Drug Inc., New York, N. Y. Tertiary-aminoalkyl 4-alkylamino-2-alkoxy-benzoates and their synthesis. 2,657,209, Oct. 27.

Clinton, Raymond O., North Greenbush, assignor to Sterling Drug Inc., New York, N. Y. 4-(tertiary-aminoalkanoylamina)-2-alkoxybenzoic acid derivatives and their preparation. 2,657,210, Oct. 27.

Closson, Rex D.: *See*—
Ligett, Waldo B., Closson, and Wolf.

Clough, Carroll C., Seattle, Wash. Remote-control mechanism for tank trucks. 2,656,732, Oct. 27.

Cluskey, James E.: *See*—
Davis, Howard A., Wolff, and Cluskey.

Coar, Richard J., Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Automatic control system for feedback turbines. 2,656,675, Oct. 27.

Cobb, William F., Utica, N. Y. Shotgun choke. 2,656,638, Oct. 27.

Coffman, Robert S., assignor to Black, Sivalls & Bryson, Inc., Kansas City, Mo. Safety pressure device. 2,656,950, Oct. 27.

Cohan, Max J., New York, N. Y. Necktie. 2,656,543, Oct. 27.

Colby, Zenas E., assignor to Jackson and Church Company, Saginaw, Mich. Insert gathering and envelope stuffing machine. 2,657,043, Oct. 27.

Cole, Janey A., Chicago, Ill. Optical viewer. 2,656,758, Oct. 27.

Collins, Don F.: *See*—
Apel, George E., and Collins.

Collins, Don F., assignor to Adamson United Company, Akron, Ohio. Rotary coupling and valve. 2,656,847, Oct. 27.

Collins, Edgar V., Ames, Iowa. Cornpicker roll. 2,656,666, Oct. 27.

Colonna, Angelo, Philadelphia, Pa. Spring actuated sash balance. 2,656,564, Oct. 27.

Compagnie de Pont-a-Mousson, assignee: *See*—
David, Pierre.

Colquitt, Odie, assignor to Patents, Inc., Denver, Colo. Means for circulating mud in rotary well drilling rigs. 2,657,015, Oct. 27.

Compagnie des Freins & Signaux Westinghouse, assignee: *See*—
Chaudoye, Noëlle, and Fourdeux.

Compagnie Generale de Telegraphie Sans Fil, assignee: *See*—
Kleen, Werner, and Huber.

Composto, Frank R., Brooklyn, N. Y. Educational toy. 2,656,617, Oct. 27.

Comstock, George E., 3d, assignor to Norton Company, Worcester, Mass. Dilatometer. 2,656,712, Oct. 27.

Conant, Louis A., and D. M. Gillies, Buffalo, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Tungsten - chromium - alumina metal ceramics. 2,656,596, Oct. 27.

Conley, Meredith S., Cranford, N. J., assignor of one-half to J. B. Haynes, Richmond Hill, N. Y. Toy horse. 2,657,053, Oct. 27.

Conmar Products Corporation, assignee: *See*—
Berman, Hans, and Katz.

Conover, Warren C., assignor to Outboard, Marine & Manufacturing Company, Waukegan, Ill. Idling control for two-cycle engines. 2,656,827, Oct. 27.

Conover, Warren C., assignor to Outboard, Marine & Manufacturing Company, Waukegan, Ill. Fuel supplying means using crankcase pressure developed in a two-cycle engine for delivering fuel to the carburetor. 2,656,828, Oct. 27.

Consolidated Engineering Corporation, assignee: *See*—
Richardson, Arthur D.
Sink, Robert L.

Consolidated Machine Tool Corporation, assignee: *See*—
Trosch, Alfred, and Roberts.

Continental Supply Company, The, assignee: *See*—
Sionneger, John C.

Conzelman, John E., Jr., Sierra Madre, H. B. Ellis, La Canada, and C. W. O'Brien, Los Angeles, Calif. Prosthetic device sensory attachment. 2,656,545, Oct. 27.

Cook, Harold C., Sr., Long Island City, N. Y. Garment hanger. 2,656,954, Oct. 27.

Cooke, Francis C., East Hampton, Conn. Twisted plug-cord connector. 2,657,368, Oct. 27.

Coover, Harry W., Jr., and J. B. Dickey, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Polymerization of acrylonitrile in the presence of preformed interpolymers. 2,657,191, Oct. 27.

Cope, T. J., Inc., assignee: *See*—
Ullberg, Frederick G. W., Jr.

Copeland, Harry B.: *See*—
Cox, Elmer H., and Copeland.

Copp, Frederick C., London, England, assignor to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Diethanolaminopyridines. 2,657,212, Oct. 27.

Cornish, Albert H.: *See*—
Mansfield, Wilfred P., and Cornish.

Cottell, Eric C., Ilkley, and J. E. Goodman, Stanks, Leeds, England. Apparatus for the mechanical production of acoustic vibrations for use in emulsification, dispersion or like processes. 2,657,021, Oct. 27.

Cotton Wood Products, Inc., assignee: *See*—
Gerard, George A.

Cottrell, Robert B., assignor to American Steel Foundries, Chicago, Ill. Snubbed spring group. 2,657,041, Oct. 27.

Couch, Glenn F., Rochester, assignor to The Symington-Gould Corporation, Depew, N. Y. Brake beam support. 2,656,901, Oct. 27.

Covert, Benjamin L., and H. E. Dahlquist, assignors to Universal Oil Products Company, Chicago, Ill. Liquid level control apparatus. 2,657,341, Oct. 27.

Cowie, Wilbur E., Ottawa, Ontario, and A. E. Blouin, Crystal Bay, Ontario, assignors to The Minister of National Defence for Canada, Ottawa, Canada. Pile fabric. 2,656,586, Oct. 27.

Cox, David C., assignor to Electric Sorting Machine Company, Grand Rapids, Mich. Gravity sorter and fast normalizer. 2,656,923, Oct. 27.

Cox, Elmer H., and H. B. Copeland, Martinsville, Ill. Automatic apparatus for the taking of liquid samples. 2,656,724, Oct. 27.

Cox, John W. and L. M., Daviess County, Mo. Tractor lift and hitch structure. 2,656,776, Oct. 27.

Cox, Lewis M.: *See*—
Cox, John W. and L. M.

Cox, William A.: *See*—
Aguilar, John G., and Cox.

Craig, Adrian W., and R. L. Sears, Des Moines, Iowa, and S. E. Hubbard, Chicago, Ill., said Hubbard assignor to said Craig and said Sears, jointly. Mason's aligning fixture. 2,656,908, Oct. 27.

Creson, William K., P. A. Newman, and M. W. Berghoff, assignors to Ross Gear & Tool Company, Lafayette, Ind. Steering gear. 2,656,734, Oct. 27.

Crider, Walter L., Blacksburg, Va. Coating device for small articles. 2,656,558, Oct. 27.

Crippen, Lee H., Lansing, Mich. Starter for internal-combustion engines. 2,656,829, Oct. 27.

Crosby, Murray G., New Hyde Park, N. Y., assignor to Boonton Radio Corporation, Boonton, N. J. Frequency or phase modulating system. 2,657,359, Oct. 27.

Croston, Edward L., Dash Point, assignor to American Manufacturing Company, Inc., Tacoma, Wash. Veneer joining apparatus. 2,657,160, Oct. 27.

Cruzan, Charles C., Salt Point, assignor to Wire-O Corporation, Poughkeepsie, N. Y. Round cornering machine. 2,656,888, Oct. 27.

Cummings, Kimball C., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Fuel duration computer. 2,656,977, Oct. 27.

Curgan, Mark N.: *See*—
Klein, David X., and Curgan.

Currie, Grover C., assignor to Dacam Corporation, Charlotte, N. C. Carrier. 2,656,959, Oct. 27.

Curtis, John C., Newport, N. H., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Rock drilling apparatus. 2,657,017, Oct. 27.

Cushman Chuck Company, The, assignee: *See*—
Sloan, Harry E.

Cutler, Alvin B.: *See*—
Kvasnok, John D. and E. M., and Cutler.

Dacam Corporation, assignee: *See*—
Currie, Grover C.

Dahlquist, Harold E.: *See*—
Covert, Benjamin L., and Dahlquist.

Dames, Trent R., San Marino, W. W. Moore, San Francisco, and J. W. Maloney, Alhambra, Calif. Soil shear testing machine. 2,656,718, Oct. 27.

Dandridge, George F. J., Loughton, England. Vermin-trap. 2,656,641, Oct. 27.

Daniel, John H., Stamford, C. G. Landes, New Canaan, and T. J. Suen, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Manufacturing wet strength paper containing cationic urea-formaldehyde resin. 2,657,132, Oct. 27.

Daniels, Farrington, Madison, Wis., assignor to Wisconsin Alumni Research Foundation. Production of nitrogen oxides. 2,657,116, Oct. 27.

Daniels, George H., Westfield, N. J. Receptacle filling machine. 2,656,962, Oct. 27.

Danielson, Vernon S., Dolton, and C. A. Anderson, assignors to W. H. Miner, Inc., Chicago, Ill. Shock absorbing mechanism for draft riggings of railway cars. 2,656,935, Oct. 27.

Danielson, Vernon S., Chicago, and R. G. Tillou, Lombard, assignors to W. H. Miner, Inc., Chicago, Ill. Shock absorbing mechanism for railway draft riggings. 2,656,936, Oct. 27.

Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Friction buffer for railway cars. 2,656,938 Oct. 27.

David, Pierre, Pont-a-Mousson, assignor to Compagnie de Pont-a-Mousson, Nancy, France. Pipe joint. 2,657,079, Oct. 27.

Davidson, John B., Grosse Ile, Mich., assignor to Sharples Chemicals Inc. Manufacture of tetramethylethylene. 2,657,245, Oct. 27.

Davis, Franklin O., Trenton, N. J., assignor, by mesne assignments, to Reconstruction Finance Corporation, Washington, D. C. Disulfide ring compounds and polymerization thereof. 2,657,198, Oct. 27.

Davis, Howard A., I. A. Wolff, and J. E. Cluskey, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture. Producing amylose films. 2,656,571, Oct. 27.

Dayton Pump & Manufacturing Company, The, assignee: *See*—
Wolfe, H. Hix, and Haas.

Dayton Rubber Company, The, assignee: *See*—
Freedlander, Abraham L.

De Ano, John F., Melrose Park, Ill., assignor to The Rauland Corporation. Sealing apparatus. 2,656,650, Oct. 27.

De Palma, Amedeo, North Haven, assignor to National Folding Box Company, Inc., New Haven, Conn. Sheet counting device for sheet handling machines. 2,656,979, Oct. 27.

Dearborn Motors Corporation, assignee: *See*—
Kincaide, Merrill C.

Deatrick, Arthur H., and A. J. Kish, Miami, Fla. Metering appliance with automatic solution shutoff device. 2,656,849, Oct. 27.

Dedoes, Arnold A., Berkley, Mich. Door latch. 2,657,085, Oct. 27.

Deere & Company, assignee: *See*—
Lindeman, Jesse G.
Oerman, Orey W.
Paul, Talbert W.
Silver, Walter H.
Walz, Claude W., and Clausen.

De Haas, Max: *See*—
Wilhelm, Walter F., and De Haas.

De Lucia, John, Bronx, N. Y., and R. Eltonhead, Fort Lee, N. J., assignors to Interchemical Corporation, New York, N. Y. Azo pigment. 2,657,204, Oct. 27.

Denham, James E., Reseda, Calif. Ski practice board. 2,657,055, Oct. 27.

Denison, Walter A., South Charleston, and W. N. Stoops, Charleston, W. Va., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Olefin-vinyl acetate copolymers and vinyl resins plasticised therewith. 2,657,188, Oct. 27.

Dentists' Supply Company of New York, The, assignee: *See*—
Brassie, Jerome E.

Detroit Harvester, Company, assignee: *See*—
Downey, Louis W.

Detje, Henry, Denver, Colo. Picture frame. 2,656,632, Oct. 27.

Detrex Corporation, assignee: *See*—
Kearney, Thomas J., and McGregor.

Détrez, René, Nogent-sur-Marne, France. Machine for successively performing operations on vessels or other articles. 2,656,964, Oct. 27.

Detroit Edison Company, The, assignee: *See*—
Mulavey, James E.

Detroit-Michigan Stove Company, assignee: *See*—
Feder, Arthur G.

Deutsche Gold-und Silber-Scheideanstalt vormals Roessler, assignee: *See*—
Bretschneider, Otto.

Devaux, Raymond H. P., Tangier, Tangier. Electric apparatus for decomposing liquids and its use as a gasoline economizer. 2,656,824, Oct. 27.

De Vries, Reinier P., Melrose, assignor to Revere Sugar Refinery, Boston, Mass. Drainage leaf attachment means for leaf type filters. 2,656,930, Oct. 27.

De Vry Corporation, assignee: *See*—
Krtous, George F.

Dicke, Allen A., assignee: *See*—
Dicke, Robert H.

Dicke, Robert H., Princeton, assignor of one-half to A. A. Dicke, Montclair, N. J. Power transmission. 2,656,733, Oct. 27.

Dickens, Le Roy L., De Ridder, La. Light projecting attachment for firearms. 2,657,303, Oct. 27.

Dickey, Joseph B.: *See*—
Coover, Harry W., Jr., and Dickey.

Diebold, Incorporated, assignee: *See*—
Behrens, Herbert C.

Diesbach, F. B., trustee, assignee: *See*—
Waechter, Harry J.

Dimond, Thomas L., Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electronic induction translator. 2,657,272, Oct. 27.

Dionne, John C., Chicago, Ill. Apparatus for the detection of flaws. 2,657,355, Oct. 27.

Döhler, Oskar: *See*—
Kleen, Werner, Döhler, and Huber.

Dolan, Richard L., De Kalb County, assignor to Bowser, Inc., Fort Wayne, Ind. Dehydrator cartridge. 2,656,929, Oct. 27.

Dole Valve Company, The, assignee: *See*—
Drapeau, Harold B., and Wingerter.

Dominion Textile Company Limited, assignee: *See*—
Kershaw, John G., and Fisher.

Donaldson, Charles A., Del Rio, Tex. Underground prospecting system. 2,657,380, Oct. 27.

Dotson, Homer, Ringling, Okla. Two-way plow attachment. 2,656,767, Oct. 27.

Douglas, James K. and W. G., Shorewood, assignors to The Oilgear Company, Milwaukee, Wis. Pilot operated free return resistance valve. 2,656,854, Oct. 27.

Douglas, William G.: *See*—
Douglas, James K. and W. G.

Douthitt, Maurice V.: *See*—
Kraus, Edwin C., and Douthitt.

Dow Chemical Company, The, assignee: *See*—
Van Horn, John C., Ohlmann, Klinger, and Wright.

Downey, Louis W., assignor to Detroit Harvester, Company, Detroit, Mich. Power take-off attachment for motor vehicles. 2,656,728, Oct. 27.

Downey, Michael J., San Francisco, Calif. Traffic signal. 2,656,815, Oct. 27.

Drain, Percy J., Roseville, near Sydney, New South Wales, assignor to G. E. Tidbury, Alexandria, near Sydney, New South Wales, Australia. Ironing press apparatus for clothes, textile fabrics, or the like. 2,656,626, Oct. 27.

Drake, Harold E., Fostoria, Ohio. Grinding machine. 2,656,987, Oct. 27.

Drapeau, Harold B., Oak Park, and R. B. Wingerter, assignors to The Dole Valve Company, Chicago, Ill. By-pass thermostatic valve. 2,656,982, Oct. 27.

Dresser Industries, Inc., assignee: *See*—
Rathman, Gilbert.

Drew, Harry A., West New York, N. J., assignor to Victor Industries Corporation, Brooklyn, N. Y. Collapsible tube capping mechanism. 2,656,965, Oct. 27.

Drow, Donald F., Los Angeles, assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company. Flow control and shutoff valve for pilot burners. 2,657,006, Oct. 27.

Dudnikov, Mitchell, Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y. Manufacturing phthalocyanines. 2,657,213, Oct. 27.

Dukes, Lester C., Seattle, Wash. Fishing reel. 2,656,993, Oct. 27.

Dumas, Jacques, assignor to Etablissements Edgar Brandt, Paris, France. Antitank mines. 2,656,792, Oct. 27.

Dunlop Rubber Company Limited, assignee: *See*—
Tibenham, Frederick J.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Barney, Arthur L., and Pinkney.
Bechtold, Max F.
Evans, John L., and Micucci.
Foster, Robert E., and Schroeder.
McGraw, Frank C., and Pinkney.
Miller, Henry C., and Rothrock.
Pinkney, Paul S.
Whitman, Nelson.
Carnahan, James E.
Herring, Henry H., Jr.
Iler, Ralph K.
Nebel, Richard W.
Rigby, George W.
Rogers, Arthur O.

Duro-Test Corporation, assignee: *See*—
Williams, Rollo G.

Dynamatic Corporation, assignee: *See*—
Jaeschke, Ralph L.

Eastern Tool & Mfg. Co., assignee: *See*—
Anderson, Carl E.

Eastman, Fred C., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe sewing machine needle. 2,656,804, Oct. 27.

Eastman Kodak Company, assignee: *See*—
Allen, Charles F. H., and Burness.
Coover, Harry W., Jr., and Dickey.
Graham, Bruce, Vittum, and Weissberger.
Knott, Edward B., and Brooks.
Lowe, Wesley G., and Hamshire.

Eastman, Lewis A., Wyandotte, Mich. Fire escape device. 2,656,967, Oct. 27.

Eastman Oil Well Survey Company, assignee: *See*—
Brady, Edward F.
Goble, Ralph W.

Easy Washing Machine Corporation, assignee: *See*—
Chapin, Bryan W.

Ebsworth, Richard H., Laguna Beach, Calif. Automatic transmission. 2,656,736, Oct. 27.

Economy Fuse and Manufacturing Co., assignee: *See*—
Laing, Gordon F.

Economy Pumps, Inc., assignee: *See*—
Morey, Carl.

Ecremeuses Melotte Societe Anonyme, assignee: *See*—
Henrard, Fernand J. J. J.

Eddy, William C., assignor to Television Associates, Inc., Michigan City, Ind. Container for endless film reels. 2,657,047, Oct. 27.

Edwards, Lois, assignee: *See*—
Galuska, Charles W.

Edwards, William D.: *See*—
Lucas, Guy L., Edwards, and Chaffin.

Ehrlich, Joseph R., New York, N. Y. New and improved solutions of zein and making same. 2,657,148, Oct. 27.

Eisenstein, Edward, Los Angeles, Calif. Intravenous attachment. 2,656,835, Oct. 27.

Electric Sorting Machine Company, assignee: *See*—
Cox, David C.

Electrographic Corporation, assignee: *See*—
Reilly, Frank E.

Electro-Plastic Fabrics, Incorporated, assignee: *See*—
Beaver, Richard W., and Sweeny.

Eliot, Warner A., New Canaan, Conn., and W. H. Erikson, Rochester, N. Y., assignors to Stromberg-Carlson Company. Method and means for obtaining a predetermined phase shift characteristic. 2,657,276, Oct. 27.

Elliott, Thomas J., assignor to Harris-Seybold Company, Cleveland, Ohio. Sheet delivery mechanism. 2,657,052, Oct. 27.

Ellis, Herbert B.: *See*—
Conselman, John E., Jr., Ellis, and O'Brien.

Ellison, John A. T., Seattle, Wash. Parking meter control system. 2,656,908, Oct. 27.

Eltonhead, Robert: *See*—
De Lucia, John, and Eltonhead.

Emerson Electric Manufacturing Company, The, assignee: *See*—
Korski, Frank S.

Emerson, John R., Flint, assignor to General Motors Corporation, Detroit, Mich. Antistall device. 2,657,038, Oct. 27.

Enna Limited, assignee: *See*—
Robb, William C.

Epperson, William H., Coral Gables, assignor to Aeronautical Communications Equipment, Inc., Miami, Fla. Impedance matching network. 2,657,362, Oct. 27.

Ericks, Walter P., assignor to The Upson Company, Lockport, N. Y. Wallboard adhesive and method. 2,657,163, Oct. 27.

Erickson, John R., assignor to Norton Company, Worcester, Mass. Grinding wheel. 2,656,654, Oct. 27.

Erikson, Walter H.: *See*—
Eliot, Warner A., and Erikson.

Ertell, Carl G.: *See*—
Johnson, Walter J., and Ertell.

Etablissements Edgar Brandt, assignee: *See*—
Dumas, Jacques.

Ethyl Corporation, assignee: *See*—
Ligett, Waldo B., Closson, and Wolf.

Eureka Williams Corporation, assignee: *See*—
Backlund, John R., and Flanders.

Evans, John L., South River, and D. D. Micucci, New Brunswick, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Dilute alkali dispersible hot melt bookbinding adhesives. 2,657,187, Oct. 27.

Ex-Cell-O Corporation, assignee: *See*—
Seyferth, Harold N.

Falco, Elvira A.: *See*—
Hitchings, George H., Russell, and Falco.

Farbenfabriken Bayer Aktiengesellschaft, assignee: *See*—
Gensel, Herbert, and Windemuth.

Farbwerke Hoechst, Aktiengesellschaft vormals meister Lucius und Bruning, assignee: *See*—
Heyna, Johannes, and Schumacher.

Farnham, Sherman, assignee: *See*—
Schepp, William J.

Fasciati, Alfred: *See*—
Widmer, Willy, and Fasciati.

Faulhaber, Albert J.: *See*—
Murdoch, John P., and Faulhaber.

Favre, Jules, Neuchatel, assignor to Paillard S. A., Sainte-Croix, Switzerland. Reel end alarm. 2,656,816, Oct. 27.

Faximile, Inc., assignee: *See*—
Hester, Frank A.

Feder, Arthur G., assignor to Detroit-Michigan Stove Company, Detroit, Mich. Broiler structure. 2,657,110, Oct. 27.

Federal Foundry Supply Company, assignee: *See*—
Herbruggen, Heinrich J. B.

Federal Telephone and Radio Corporation, assignee: *See*—
Brandt, Walter.
O'Neil, Paul T.
Schmitt, William C.

Feldkamp, Rolland F., Troy, assignor to Sterling Drug Inc., New York, N. Y. Preparation of 1-methylpiperidylmethanols. 2,657,211, Oct. 27.

Fellman, Rudolf, Prague, assignor of one-half to The Skoda Works, National Corporation, Plzen, Czechoslovakia. Tobacco spreader for cigarette making machines. 2,656,840, Oct. 27.

Ferguson, Harry, Inc., assignee: *See*—
Hansen, Harold V., and Murphy.
Murphy, John T.

Finkurn Enterprises, Inc., assignee: *See*—
Kurnick, Abraham, and Brownstein.

Fischer, Wilbur F.: *See*—
Banes, Fred W., Gessler, and Fischer.

Fisher, Harold: *See*—
Kershaw, John G., and Fisher.

Fisher, James W., H. Bates, and E. W. Wheatley, Spondon, near Derby, England, assignors to British Celanese Limited. Production of polyaminotriazoles. 2,657,196, Oct. 27.

Flanders, Vernon E.: *See*—
Backlund, John R., and Flanders.

Flesch, John E., Los Angeles, Calif., assignor to American Steel Foundries, Chicago, Ill. Spring group assembly. 2,657,039, Oct. 27.

Folt, Vernon L., and E. J. Carlson, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Interpolymers of a difluorodichloroethylene, a 1,3-butadiene hydrocarbon and vinylidene chloride. 2,657,199, Oct. 27.

Food Machinery and Chemical Corporation, assignee: *See*—
Boyce, John, and Olsen.
Carr, James P.
Krueger, Frank W.
Kucera, Joseph B.
Lindsay, Wesley N.

Forichon, Gaston S., Boulogne-Billancourt, France. Hydraulic system for riveting presses. 2,656,745, Oct. 27.

Forman, Sylvan E.: *See*—
Burgison, Raymond M., Forman, and Zink.

Foster Grant Co., Inc., assignee: *See*—
Hollis, Morton.

Foster, Robert E., New Castle, Del., and H. E. Schroeder, Kennett Square, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of diamines. 2,657,240, Oct. 27.

Fourdeux, Angéline: *See*—
Chaudoye, Noelle, and Fourdeux.

Fourmanoit, Jean C., Brussels, Belgium. Device for avoiding the dislocation of furnaces or ovens. 2,656,717, Oct. 27.

Fox, Harold C., Woodstock, Ill. Key operating means for computing machines. 2,656,980, Oct. 27.

Francis, Carleton S., Jr., West Harwich, Mass., assignor to American Viscose Corporation, Wilmington, Del. Ink transfer element. 2,657,157, Oct. 27.

Franklin, Phillip J.: *See*—
Harmon, Elise F., and Franklin.

Fraser, Hugh W.: *See*—
Sumners, Sumner J., and Fraser.

Frasure, James W., Clyde, Ohio. Combination rudder and propulsion device. 2,656,809, Oct. 27.

Freeberg, Ernest R., Moline, Ill. Lock with roller bearing support of bolt. 2,656,708, Oct. 27.

Freedlander, Abraham L., Dayton, Ohio, assignor to The Dayton Rubber Company. Slasher roll. 2,656,582, Oct. 27.

Friedman, Herbert, Arlington, Va. Suppressing photoelectric threshold. 2,657,316, Oct. 27.

Friedmann, Giovanni, Milan, Italy. Means for transporting and distributing fertilizers on fields. 2,656,648, Oct. 27.

Frisch, Kurt C., Pittsfield, Mass., and M. Wolf, Syracuse, N. Y., assignors to General Electric Company. Novel cyanoalkoxy silanes. 2,657,226, Oct. 27.

Frost, Kenneth L., Oakland, Calif. Luminescent signaling device. 2,656,763, Oct. 27.

Fuller Company, assignee: *See*—
Weller, Leo G.

Funk, John J., Chicago, Ill. Locking coupler. 2,657,073, Oct. 27.

Fuqua, Mack C.: *See*—
Giraitis, Albert P., and Fuqua.

Gallaz and Co., assignee: *See*—
Reinhold, Charles.

Galuska, Charles W., assignor of fifty per cent to L. Edwards, Burbank, Calif. Exhaust valve cooling assembly. 2,656,826, Oct. 27.

Gannon, Alfred C., Indianapolis, C. E. Kilby, Knightstown, and V. R. Rupp, assignors to Kingan & Co., Incorporated, Indianapolis, Ind. Meat curing device. 2,656,785, Oct. 27.

Gans, Milton, St. George, N. Y. Latch attachment for valve-operated spray nozzles. 2,657,007, Oct. 27.

Garaycoches, Carlos, Buenos Aires, Argentina. Device for separating water and foreign matter from liquid fuel. 2,656,926, Oct. 27.

Gard, George E.: *See*—
Phillips, Washington H., and Gard.

Gardner Machine Company, assignee: *See*—
Gardner, Ralph D.

Gardner, Ralph D., Roscoe, assignor to Gardner Machine Company, South Beloit, Ill. Grinding machine with wheel surface position indicator. 2,656,653, Oct. 27.

Garey, George E., Downs, Kans. Flexible harrow hitch. 2,656,660, Oct. 27.

Garner, Lawrence M., and E. S. McConnohie, Covert, Mich. Unidirectional, rotary variable delivery fluid pump. 2,656,796, Oct. 27.

Garretson, Owen L., Bartlesville, Okla., assignor to Phillips Petroleum Company. Excess flow check valve with manual reset means. 2,656,850, Oct. 27.

Gates, Harris G., Denver, Colo. Concrete form tie. 2,656,581, Oct. 27.

Gaucher, Leon P., Mount Vernon, assignor to The Texas Company, New York, N. Y. Generation of heating gas from solid fuels. 2,657,124, Oct. 27.

Gaudin, Olivier, Neuilly-sur-Seine, France. Halogenation of benzenes containing sulfur in their allylic or propenylic side chains and products obtained thereby. 2,657,216, Oct. 27.

Geel, John J., assignor to F. E. Shreve, Charlotte, N. C. Electrically operable stapler actuator. 2,656,537, Oct. 27.

Geigy, J. R., A. G., assignee: *See*—
Hausermann, Heinrich, and Zweidler.

Geissman, Theodore A., Los Angeles, Calif. Preparation of visnagin from cheilol and new compositions of matter. 2,657,218, Oct. 27.

Gellert, Carl and F., San Francisco, Calif. Device for boring the lockholes in doors. 2,656,862, Oct. 27.

Gellert, Fred: *See*—
Gellert, Carl and F.

General Aniline & Film Corporation, assignee: *See*—
Bates, James E.
Randall, David I.
Siggia, Sidney.

General Electric Company, assignee: *See*—
Frisch, Kurt C., and Wolf.
Hermanson, Herman E.
Herskind, Carl C.
McGee, Richard R.
McNairy, Jacob W.
Mulhern, Marvin J., and Rettig.
Page, Robert G.
Prendergast, James J.
Skolnikoff, Eugene B.
Sullivan, Earle C.
Van Nest, Francis H.

General Mills, Inc., assignee: *See*—
Brastad, William A.
Westby, Henry A.

General Motors Corporation, assignee: *See*—
Braun, Adolph F.
Chilton, William D.
Emerson, John R.
Hooper, Clarence A.
Lincoln, Clovis W., Zeigler, and Malone.

Gensel, Herbert, Leverkusen-Wiesdorf, and E. Windemuth, Leverkusen-Bayerwerk, assignors to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany. Coating of fabrics. 2,657,151, Oct. 27.

Gerard, George A., Hillside, N. J., assignor to Cotton Wood Products, Inc., Baltimore, Md. Nonscratching packing pad. 2,657,158, Oct. 27.

Gessler, Albert M.: *See*—
Banes, Fred W., Gessler, and Fischer.

Gillies, Daniel M.: *See*—
Conant, Louis A., and Gillies.

Giovannoni, Cash E., Boulder City, Nev. Handle guided carrier and powered wheel therefor. 2,656,894, Oct. 27.

Giraitis, Albert P., and M. C. Fuqua, Baton Rouge, La., assignors to Standard Oil Development Company. Isopropyl alcohol process. 2,657,243, Oct. 27.

Girvin, Murray D.: *See*—
Peebles, David D., and Girvin.

Gisholt Machine Company, assignee: *See*—
Weaver, Ira A., and Phelps.

Glasgow, Clarence O., assignor to National Tank Company, Tulsa, Okla. Horizontal separator. 2,656,896, Oct. 27.

Glass, John, Jr., New York, N. Y., R. J. Heath, and C. F. Woller, Muskegon, Mich. Pliers for split shot. 2,656,746, Oct. 27.

Gleason Works, The, assignee: *See*—
Wildhaber, Ernest.

Goble, Ralph W., Long Beach, Calif., assignor to Eastman Oil Well Survey Company, Denver, Colo. Apparatus for calipering well bores. 2,656,613, Oct. 27.

Goering, Hans G.: *See*—
Schneider, Helmuth G., and Goering.

Goldfarb, Bernard, Skokie, Ill. Rockable wheeled figure toy. 2,656,645, Oct. 27.

Goldman, Harold, New York, N. Y. Fuel strainer and atomizer for internal-combustion engines. 2,657,123, Oct. 27.

Goldstein, Ladislas, Weehawken, N. J., assignor to International Standard Electric Corporation, New York, N. Y. High-energy radiation counter. 2,657,315, Oct. 27.

Golemon, Valla S., Burbank, assignor to Clary Multiplier Corporation, Los Angeles, Calif. Calculating machine function selection mechanism. 2,656,976, Oct. 27.

Goodhue, Lyle D., and C. E. Tissot, Bartlesville, Okla., assignors to Phillips Petroleum Company. Organic peroxide and hydroperoxide herbicides. 2,657,125, Oct. 27.

Goodman, John E.: *See*—
Cottell, Eric C., and Goodman.

Goodrich, B. F., Company, The, assignee: *See*—
Carlson, Earl J.
Folt, Vernon L., and Carlson.
Shelley, Thomas H.
Stewart, William D., and Standen.

Goodyear Aircraft Corporation, assignee: *See*—
Wolf, Edward.

Gordon, Harry B., Highland Park, Ill. Garment packaging box. 2,656,914, Oct. 27.

Gotshall, William W., Detroit, Mich. Insulated heat conducting unit. 2,656,902, Oct. 27.

Grable, Donovan B., Long Beach, Calif. Fluid circulation head for drill strings. 2,657,016, Oct. 27.

Grady, John P., Narberth, Pa. Bagmaking and filling machine. 2,656,658, Oct. 27.

Graham, Bruce, P. W. Vittum, and A. Weissberger, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic emulsion with colored couplers containing isophthalic ester groups. 2,657,134, Oct. 27.

Graham, John D.: *See*—
Kincaid, Homer F., Graham, Reynolds, and Wharff.

Graham, William T., Amarillo, Tex. Overriding shank for resilient shank plows. 2,656,778, Oct. 27.

Grand Specialties Company, assignee: *See*—
Hopfeld, Fred P.

Grant, Jesse R., Chicago, Ill. Egg tray and cover. 2,656,945, Oct. 27.

Graupner, Arthur H., Oshkosh, Wis. Dual edging. 2,656,880, Oct. 27.

Gray, Frank, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Storage device utilizing semiconductor. 2,657,309, Oct. 27.

Gray, Frank, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Reproduction of signals from magnetic records. 2,657,377, Oct. 27.

Gray, Frank, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Pulse translation apparatus. 2,657,378, Oct. 27.

Gray, Franklin D., Hillsburgh, Ontario, and E. G. Snyder, Preston, Ontario, Canada. Device for separating potatoes from stones. 2,656,921, Oct. 27.

Gray, John S.: *See*—
Sproule, Lorne W., and Gray.

Grayson-Greenamyer, Inc., assignee: *See*—
Grayson, John H.

Grayson, Harry: *See*—
Starr, Arthur T., and Grayson.

Grayson, John H., assignor to Grayson-Greenamyer, Inc., Monrovia, Calif. Thermostatic valve structure. 2,656,983, Oct. 27.

Green, Samuel G., Gray, Ga. Firing mechanism for firearms. 2,656,636, Oct. 27.

Greene, Claude E., and R. B. Lesher, Sidney, Ohio, assignors to The Monarch Machine Tool Company. Semi-automatic turret lathe. 2,656,589, Oct. 27.

Greenlee Bros. & Co., assignee: *See*—
Mansfield, Judson H.

Grenier, Joseph W., Giffard, Quebec, Canada. Clutch and brake control for endless track vehicles. 2,656,904, Oct. 27.

Gropen, Edward M.: *See*—
Spiess, Newton E., Jr., Gropen, and Weaver.

Guillemin, Victor, Jr., Oak Park, Ill. Motion amplifier. 2,656,735, Oct. 27.

Gulf Research & Development Company, assignee: *See*—
Bardeen, Thomas.

Gurley, Martin H., Jr., Needham, Mass., assignor, by mesne assignments, to American Machine and Foundry Company, New York, N. Y. Making tobacco sheet material. 2,656,841, Oct. 27.

Haantjes, Johan, J. J. P. Valeton, and B. W. van I. Schenau, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Saw-tooth current generator. 2,657,333, Oct. 27.

Haas, Edward W.: *See*—
Wolfe, H. Hix, and Haas.

Hackenberg, John H., Flushing, assignor to The Western Union Telegraph Company, New York, N. Y. Facsimile transmitter. 2,657,259, Oct. 27.

Hacklander, Hans, Linden, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Switch-actuating mechanism for seaming machines. 2,657,302, Oct. 27.

Hafner, Theodore, assignee: *See*—
Nicolet, Nicholas E.

Hahn & Kolb, assignee: *See*—
Venus, Wilibald A.

Haloid Company, The, assignee: *See*—
Mengali, Otavio J., and Middleton.

Hamilton, Bertis F., Columbus, Ind. Metal furniture. 2,656,881, Oct. 27.

Hampe, Pierre, Versailles, assignor of one-half to G. Truffaut, Paris, France. Method and apparatus for producing electrified powders by friction. 2,657,339, Oct. 27.

Hamshire, Marcelle E.: *See*—
Lowe, Wesley G., and Hamshire.

Hanes, James W. E.: *See*—
Williams, William J., and Hanes.

Hansen, Harold V., Winnebago, Ill., and J. T. Murphy, Haywood County, Tenn., assignors to Harry Ferguson, Inc., Detroit, Mich. Tractor borne planter attachment. 2,656,801, Oct. 27.

Hansen, Royal E.: *See*—
Clark, Martha M., and Hansen.

Hanus, Edward J.: *See*—
Macek, Thomas J., and Hanus.

Harding, Claude J., Plainview, Tex. Aligning device. 2,656,607, Oct. 27.

Harman, Denham: *See*—
Vaughan, William E., and Harman.

Harmon, Elise F., and P. J. Franklin, Washington, D. C., assignors to the United States of America as represented by the Secretary of the Army. Plastic matrix for printing resistors. 2,656,570, Oct. 27.

Harrell, Pearl M., Santa Ana, Calif. Shoulder support for garment hangers. 2,656,955, Oct. 27.

Harrer, Paul H., La Porte, Ind., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Soft center bale attachment. 2,656,786, Oct. 27.

Harrington, Victor B., New York, N. Y. Cover for ends of books. 2,657,072, Oct. 27.

Harris, John L., Whitefish Bay, Wis. Control device. 2,657,283, Oct. 27.

Harris Manufacturing Company, assignee: *See*—
Witzel, Homer D.

Harris-Seybold Company, assignee: *See*—
Elliott, Thomas J.

Harstick, William H., Oak Park, Ill., assignor to International Harvester Company. Milk strainer for separator supply cans. 2,656,928, Oct. 27.

Hartenbach, Henry C., Jr., St. Louis, Mo., assignor to Proctor & Schwartz, Inc., Philadelphia, Pa. Rug scouring apparatus. 2,656,701, Oct. 27.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Broos, Henricus A.
Buchner, Robert B.
Haantjes, Johan, Valeton, and Schenau.
Hepp, Gerard.
Knol, Kornelis S., and van der Ziel.
Te Winkel, Jan.

Hartman, Frank W., Jr., Dearborn, assignor to Holley Carburetor Company, Detroit, Mich. Centrifugal means for a high tension distributor arm. 2,657,035, Oct. 27.

Hartz, Marvin E., Milwaukee, assignor to Kiekhaefer Corporation, Fond du Lac, Wis. Controlled variable coolant system for engines. 2,656,825, Oct. 27.

Harvard Manufacturing Company, The, assignee: *See*—
Blanke, Nathan E., and Sands.

Hasselblad, Fritz V., Goteborg, Sweden. Photographic plate or film holder. 2,656,771, Oct. 27.

Hatkoff, Nathan R., Westport, Conn. Orthopedic device for the ankle. 2,656,834, Oct. 27.

Hatton, Willard J., Jackson, Mich., assignor, by mesne assignments, to Bituminous Coal Research, Inc. Control system for automatically fed furnaces for solid organic fuels. 2,656,799, Oct. 27.

Hausermann, Heinrich, and R. Zweidler, assignors to J. R. Geigy A. G., Basel, Switzerland. Sulfonic acid aryl esters of polyarylethylene derivatives and making same. 2,657,228, Oct. 27.

Haynes, James B., assignee: *See*—
Conley, Meredith S.

Haythornthwaite, James J., assignor of one-half to Howard and Bullough Limited, Accrington, England. Textile spinning and analogous machinery. 2,656,989, Oct. 27.

Heal, Byron F., Waukesha, Wis. Mow hay drier. 2,656,783, Oct. 27.

Heath, Robert J.: *See*—
Glass, John, Jr., Heath, and Woller.

Heintz James C., deceased, Lakewood, Ohio; The Cleveland Trust Company, executor. Cooling castings over sizing forms. 2,656,593, Oct. 27.

Heise, Otto W., Newtown, Conn. Bourdon tube gauge 2,656,723, Oct. 27.

Helipot Corporation, assignee: *See*—
Barclay, Robert E.

Helms, George V., Los Angeles, Calif. Retractable gear for portable freight units. 2,656,942, Oct. 27.

Henderson, Charles A., Appleton, Wis., assignor to International Cellucotton Products Company, Chicago, Ill. Dispensing pack for interfolded sheet material. 2,656,916, Oct. 27.

Henning, Rudolf E., New York, assignor to The Sperry Corporation, Great Neck, N. Y. Coaxial directional coupler. 2,657,361, Oct. 27.

Henrard, Fernand J. J. J., assignor to Ecremeuses Melotte Societe Anonyme, Remicourt, Belgium. Centrifugal apparatus for mixing gases and liquids. 2,657,025, Oct. 27.

Henry, Israel H., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Line identification trouble indicator. 2,657,271, Oct. 27.

Hepp, Gerard, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electric circuit comprising a cathode-ray tube. 2,657,330, Oct. 27.

Herbruggen, Heinrich J. B., Cleveland, Ohio, assignor to Federal Foundry Supply Company. Core blowing apparatus. 2,656,575, Oct. 27.

Hercules Powder Company, assignee: *See*—
Buntin, George A.
Stonecipher, William D.
Walton, Warren L.

Hermanson, Herman E., Mayfield Heights, Ohio, assignor to General Electric Company. Method and masking shield for interiorly coating hollow articles. 2,657,150, Oct. 27.

Herrell, Edgar E., San Diego, Calif. Antitheft device for internal-combustion powered vehicles. 2,657,317, Oct. 27.

Herring, Henry H., Jr., Woodbury, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparation of isocinchomeronic acid. 2,657,207, Oct. 27.

Hersey, Ralph E., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,657,274, Oct. 27.

Herskind, Carl C., Schenectady, N. Y., assignor to General Electric Company. Stabilized arc suppressing system for electronic devices using static components. 2,657,335, Oct. 27.

Hess, Alexander M., New York, N. Y. Pleating. 2,656,886, Oct. 27.

Hester, Frank A., assignor to Faximile, Inc., New York, N. Y. Facsimile system wherein the recording is a modification of the copy. 2,657,258, Oct. 27.

Heuman, Ernest, West End, N. J. Rolled collar stay. 2,656,542, Oct. 27.

Hewitt, John C., Jr., Long Beach, Calif. Oil well survey instrument. 2,656,616, Oct. 27.

Heyden Chemical Corporation, assignee: *See*—
Klein, David X., and Curgan.

Heyna, Johannes, Frankfurt am Main Unterliederbach, and W. Schumacher, Frankfurt am Main, assignors to Farbwerke Hoechst Aktiengesellschaft vormals meister Lucius und Bruning, Frankfurt am Main-Hochst, Germany. Dyes containing a vinyl sulfone. 2,657,205, Oct. 27.

Hickey, George M., Paoli, Pa., assignor to J. Bishop & Co. Platinum Works. Hypodermic syringe. 2,656,836, Oct. 27.

Hill, Ronald A., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Dry contact rectifier. 2,657,346, Oct. 27.

Hill, Vaughn H.: *See*—
Miller, John W., and Hill.

Hillier, Harold, Glasgow, assignor to G. & J. Weir Limited, Cathcart, Glasgow, Scotland. Boiler feed system. 2,656,823, Oct. 27.

Hindley, Nathan C.: *See*—
Isler, Otto, Hindley, and Zeller.

Hines, Walter E., Fredericktown, Ohio. Tractor mounted stalk shredding device. 2,656,662, Oct. 27.

Hinkel, Lester H., Evansville, Ind., assignor to International Harvester Company. Refrigerator door with a compartment. 2,656,688, Oct. 27.

Hintz, Otto E., Riverside, Ill., assignor to International Harvester Company. Pickup mechanism. 2,656,670, Oct. 27.

Hintz, Otto E., Riverside, and R. Schinke, Chicago, Ill., assignors to International Harvester Company. Forage cutter. 2,656,868, Oct. 27.

Hitchings, George H., Tuckahoe, P. B. Russell, Crestwood, and E. A. Falco, New Rochelle, assignors to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. 2,4-diamino-5-aryloxy-pyrimidines. 2,657,206, Oct. 27.

Hobson, Judson M., Garden Grove, Calif. Cable terminal. 2,657,370, Oct. 27.

Hoffmann, Eugene H., University City, assignor to Plastic Patents, Incorporated, St. Louis, Mo. Top lift attachment. 2,656,621, Oct. 27.

Hoffmann-La Roche Inc., assignee: *See*—
Isler, Otto, Hindley, and Zeller.

Hofmeister, Maurice H., Evanston, assignor to Bell & Gossett Company, Morton Grove, Ill. Heat exchanger. 2,657,020, Oct. 27.

Hoggatt, Gilbert A., Winnetka, Ill., assignor to Certain-Teed Products Corporation, Ardmore, Pa. Penetrometer. 2,656,716, Oct. 27.

Hoklas, Clarence H., assignor of twenty-five per cent to G. L. Hoklas, Chicago, Ill. Push-button turn signal switch. 2,657,286, Oct. 27.

Hoklas, George L., assignee: *See*—
Hoklas, Clarence H.

Holley Carburetor Company, assignee: *See*—
Hartman, Frank W., Jr.

Hollingshead, Ethan A.: *See*—
Phillips, Norman W. F., Hollingshead, and Hutchmor.

Hollis, Morton, Newton Center, assignor to Foster Grant Co., Inc., Leominster, Mass. Display card for spectacles. 2,656,917, Oct. 27.

Hollis, Morton, Newton, assignor to Foster Grant Co., Inc., Leominster, Mass. Spectacles display card. 2,656,918, Oct. 27.

Holmen, Thorleif K., Brooklyn, N. Y. Balanced load hanger. 2,656,997, Oct. 27.

Holmes, Joseph G., Downey, Calif. Combined hose and sprinkler head holder. 2,657,096, Oct. 27.

Holmes, Otis M.: *See*—
Butler, Ernest L., and Holmes.

Holst, John C., Salt Lake City, Utah, assignor of twenty-five per cent to F. K. Bennie, Trona, Calif., twenty-five per cent to L. W. Bennie, Memphis, Tenn., and twenty-five per cent to L. Holst, Salt Lake City, Utah. Induction motor with sealed rotor. 2,657,322, Oct. 27.

Holst, Lamont, assignee: *See*—
Holst, John C.

Holstein, Alvin W., assignor to Knapp-Monarch Company, St. Louis, Mo. Window fan support. 2,656,974, Oct. 27.

Homer, Horace H., Arlington, and E. F. Lowry, Lynn, assignors to Sylvania Electric Products Inc., Salem, Mass. Electrode for electric discharge lamps. 2,657,325, Oct. 27.

Hooker, Ray O., San Fernando, Calif. Device for determining the depth of water of a predetermined temperature. 2,656,610, Oct. 27.

Hooper, Clarence A., Flint, assignor to General Motors Corporation, Detroit, Mich. Broach. 2,656,590, Oct. 27.

Hopfeld, Fred P., Elmwood Park, assignor to Grand Specialties Company, Chicago, Ill. Straight beam clamp with adjustable self-locking jaw. 2,656,864, Oct. 27.

Hopkin, Alfred, Jr., Philadelphia, Pa., assignor to Arrow Safety Device Company, Mount Holly, N. J. Automotive signal light control switch. 2,657,293, Oct. 27.

Hossfeld Manufacturing Company, assignee: *See*—
Mann, William H., and Schmidt.

Hoth, Daniel F., Millburn, N. J., and R. O. Soffel, Hastings-on-Hudson, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic multichannel selection. 2,657,266, Oct. 27.

Houdry, Eugene J., Ardmore, Pa. Internal-combustion engine. 2,656,830, Oct. 27.

Houdry Process Corporation, assignee: *See*—
Kollgnard, Reyner.

House of Timmons Inc., The, assignee: *See*—
Timmons, George A.

Hovland, Abraham N., Roa, near Oslo, Norway. Parachute having an inflatable opening means. 2,656,996, Oct. 27.

Howard and Bullough Limited, assignee: *See*—
Haythornthwaite, James J.

Howard, Clarence B., Oakland, Calif. Electrotherapeutic oscillator. 2,656,839, Oct. 27.

Howell, John D., Ilion, N. Y., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Ammunition. 2,656,793, Oct. 27.

Hubbard, S. Eugene: *See*—
Craig, Adrian W., Sears, and Hubbard.

Hubbell, Harvey, Long Hill, Conn. Leaf type micro switch. 2,657,288, Oct. 27.

Hubbell, Wilson G., assignor to The Ryan Aeronautical Co., San Diego, Calif. Flexible joint for tubes. 2,657,076, Oct. 27.

Huber, Harry: *See*—
Kleen, Werner, and Huber.

Hubert, William J., assignee: *See*—
Reinholz, William H.

Hudnut, Richard, assignee: *See*—
Ammarell, Theresa L.

Hughes, Burton S., assignor to Zaremba Company, Buffalo, N. Y. Concentrating apparatus. 2,656,885, Oct. 27.

Hugo, Victor J., McKeesport, and J. A. Miller, Brentwood, Pa., and H. Ottinger, deceased, Washington, D. C., by E. E. Ottinger, executrix, Washington, D. C., assignors to United States Steel Corporation. Gripping machine. 2,656,748, Oct. 27.

Hultkrans, Paul B., assignor to Milprint, Inc., Milwaukee, Wis. Producing drawstring bags. 2,656,769, Oct. 27.

Huston, Elmo F., assignor to The Ohio Brass Company, Mansfield, Ohio. Cable clamping device for feeder taps. 2,657,371, Oct. 27.

Hutchinson, Harlan H., Lone Rock, Iowa. Stool. 2,656,875, Oct. 27.

Hyams, Montagu, and A. Nicholson, London, England, assignors to Parker Rust-Proof Company, Detroit, Mich. Phosphate coating composition and process. 2,657,156, Oct. 27.

Icecrafter (Liquidating) Trust, assignee: *See*—
Bayston, John R.

Iler, Ralph K., Brandywine Hundred, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Esterifying the surface of a silica substrate having a reactive silanol surface and product thereof. 2,657,149, Oct. 27.

Industrial Molded Products Co. Inc., assignee: *See*—
Kaplan, Benjamin B.

Interchemical Corporation, assignee: *See*—
De Lucia, John, and Eltonhead.

International Cellucotton Products Company, assignee: *See*—
Henderson, Charles A.

International Harvester Company, assignee: *See*—
Borgerd, William F.
Harstick, William H.
Hinkel, Lester H.
Hintz, Otto E.
Hintz, Otto E., and Schinke.
Kincaid, Homer F., Graham, Reynolds, and Wharff.
Phillips, Fae C.
Radtke, Adelbert C.

International Minerals & Chemical Corporation, assignee: *See*—
Barlow, Thomas E.

International Standard Electric Corporation, assignee: *See*—
Goldstein, Ladislas.
Hill, Ronald A.
Kelly, Richard.
Parker, Louis W.
Prior, Hector T.
Richon, Emile.
Starr, Arthur T., and Grayson.

Isenberg, Joseph, New York, N. Y. Aircraft pedal drive with power accumulator. 2,656,994, Oct. 27.

Isham, Robert M., Okmulgee, Okla., assignor, by mesne assignments, to Southern Production Company, Inc., Fort Worth, Tex. Separation and recovery of methyl amines. 2,657,237, Oct. 27.

Isler, Otto, and N. C. Hindley, Basel, and P. Zeller, Neu-Allschwil, Switzerland, assignors to Hoffmann-La Roche Inc., Nutley, N. J. Vitamin A acetals. 2,657,219, Oct. 27.

Israel, Grace K., assignee: *See*—
Kayser, Allan J.

Jackson and Church Company, assignee: *See*—
Colby, Zenas E.

Jackson, Howard B., assignor to Neisler Mills, Inc., Kings Mountain, N. C. Plied yarn and plied yarn fabric and making same. 2,656,585, Oct. 27.

Jacoby-Bender, Inc., assignee: *See*—
Krust, Walter.

Jaeschke, Ralph L., assignor to Dynamatic Corporation, Kenosha, Wis. Power transmission control governor. 2,657,323, Oct. 27.

James, Duane A.: *See*—
James, Lewis A. and D. A.

James, Lewis A. and D. A., Independence, Kans. Impeller assembly for dishwashers. 2,657,095, Oct. 27.

Jansen, Andries W., Rijswijk, Netherlands. Apparatus for grading fruit according to size. 2,656,922, Oct. 27.

Janssen, Oscar, assignor to Oscar Janssen Stainless Steel Tanks, Inc., St. Louis, Mo. Building for liquid storage. 2,656,709, Oct. 27.

Janssen, Oscar, Stainless Steel Tanks, Inc., assignee: *See*—
Janssen, Oscar.

Jarvis, John, Dumont, assignor to Bendix Aviation Corporation, Teterboro, N. J. Null seeking system. 2,657,348, Oct. 27.

Javery, William A., Torrington, assignor to E. W. Plumb, Morris, Conn. Sliding snap hook. 2,656,580, Oct. 27.

Jeger, Oskar: *See*—
Rusicka, Leopold, and Jeger.

Jennings, Paul A., Baltimore, Md., assignor to Armco Steel Corporation. High-temperature steel and articles. 2,657,130, Oct. 27.

Jennings, Russell: *See*—
Bunch, Peter, Mittomme, and Jennings.

Jentsch, Edward, Clifton, N. J. Guide for yarn carriers. 2,656,692, Oct. 27.

Jernstrom, Karl W., Verona, N. J., assignor to Seaboard Machinery Corporation, New York, N. Y. Hinged wheel-supported hatch cover. 2,656,810, Oct. 27.

Jespersen, Paul W.: *See*—
Birr, Rudolph G., and Jespersen.

Joelson, Ronald A., Chetek, Wis. Multiple bore pulley assembly. 2,657,081, Oct. 27.

Johnson, Arthur A., assignor to Automatic Devices Corporation, Bridgeport, Conn. Cigar lighter. 2,657,297, Oct. 27.

Johnson, Cecil C., Kermit, Tex. Emulsion treater. 2,656,925, Oct. 27.

Johnson, Edwin L., Ottawa, Kans., and E. J. Scofield, Cabimas, Estado Zulia, Venezuela. Live bait container. 2,656,640, Oct. 27.

Johnson, John C., East Hempstead, N. Y., and W. H. Johnson, Newmanstown, Pa. Apparatus for sorting and feeding receptacle closure caps. 2,656,807, Oct. 27.

Johnson & Johnson, assignee: *See*—
Bartle, George R.

Johnson, Lloyd A., Woodside, E. D. Mosher, and C. A. Stephens, Palo Alto, assignors to National Motor Bearing Co., Inc. Redwood City, Calif. Seal for railroad journals. 2,657,080, Oct. 27.

Johnson, Lloyd A., Woodside, assignor to National Motor Bearing Company, Inc., Redwood City, Calif. Guard bearing. 2,657,102, Oct. 27.

Johnson, Marvin B., Montgomery, Ala. Mount and means for supporting and orienting optical devices. 2,656,764, Oct. 27.

Johnson, Milton C., Co., assignee: *See*—
Busse, Herman.

Johnson, Walter H.: *See*—
Johnson, John C. and W. H.

Johnson, Walter J., Buffalo, and C. G. Ertell, Eggertsville, assignors to J. H. Williams & Co., Buffalo, N. Y. Replaceable jaw insert for pipe wrenches. 2,656,751, Oct. 27.

Johnson, Warren W., St. Joseph, Mo. Flexible band turning tool. 2,656,749, Oct. 27.

Jones & Laughlin Steel Corporation, assignee: *See*—
Nichols, Charles M.

Jones, Lewis L., Purvis, Miss. Oil change indicator. 2,656,817, Oct. 27.

Jones, Paul E., Downey, Calif. Apparatus for spraying hot liquids such as asphaltic emulsions on roadway surfaces. 2,657,092, Oct. 27.

Jones, Robert T., assignee: *See*—
Jones, William R.

Jones, William R., East Rochester, N. Y., assignor to R. T. Jones, Montclair, N. J. Counterbalanced hinge. 2,656,563, Oct. 27.

Joy, Joseph F., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Walking jack. 2,657,028, Oct. 27.

Joy Manufacturing Company, assignee: *See*—
Curtis, John C.
Joy, Joseph F.

Judd, John S., assignor to Lyon, Incorporated, Detroit, Mich. Blanking die. 2,656,887, Oct. 27.

Judd, John S., Birmingham, assignor to Lyon, Incorporated, Detroit, Mich. Plastic wheel structure. 2,657,099, Oct. 27.

K-G Electronics Corporation, assignee: *See*—
Kleis, Leonard F.

Kahn, Julian S., New York, N. Y. Needle threader. 2,656,956, Oct. 27.

Kahn, Leo M., Island Park, N. Y. Multiple buck press. 2,656,624, Oct. 27.

Kallal, George W., Overland, assignor to McDonnell Aircraft Corporation, St. Louis, Mo. Ram jet engine. 2,656,676, Oct. 27.

Kallner, Gustave, Rockford, Ill. Individual wheel spring suspension. 2,657,070, Oct. 27.

Kaplan, Benjamin B., assignor to Industrial Molded Products Co. Inc., St. Paul, Minn. Automatically operated cutting wheel for opening envelopes. 2,656,889, Oct. 27.

Kaplan, Simon, Brooklyn, N. Y. Garment holding case. 2,656,913, Oct. 27.

Kasehagen, Leo, West Chester, Pa., assignor to Atlas Powder Company, Wilmington, Del. Continuous separator. 2,656,895, Oct. 27.

Kass, Peter, assignor to Atlas Powder Company, Wilmington, Del. Addition of fatty alcohol to yeast raised bakery products. 2,657,143, Oct. 27.

Katz, Morris, Ottawa, Ontario, Canada. Metal oxide impregnated with silver permanganate as oxidation agent. 2,657,182, Oct. 27.

Katz, Sigmund: *See*—
Berman, Hans, and Katz.

Kaufmann Corporation, The, assignee: *See*—
Kaufmann, Harry A.

Kaufmann, Harry A., assignor to The Kaufmann Corporation, Detroit, Mich. Latching means for window meeting rails. 2,656,574, Oct. 27.

Kaul, Arthur A., Chehalis, Wash. Weather shield for automobile windows. 2,657,089, Oct. 27.

Kay, Leopold M., New York, N. Y., assignor to C B S-Columbia Inc. Television receiver adjusting system. 2,657,263, Oct. 27.

Kayser, Allan J., assignor of fifty per cent to M. L. Kurland, forty per cent to G. K. Israel, and ten per cent to R. L. Kayser, Denver, Colo. Water sealing device for automotive wheels. 2,657,104, Oct. 27.

Kayser, Rosalind L., assignee: *See*—
Kayser, Allan J.

Kearney, Thomas J., and F. E. McGregor, assignors to Detrex Corporation, Detroit, Mich. Apparatus for treatment with liquids. 2,656,652, Oct. 27.

Keates, Albert E., South Porcupine, Ontario, Canada. Casting reel. 2,656,992, Oct. 27.

Keitt, George W., C. Leben, and F. M. Strong, assignors to Wisconsin Alumni Research Foundation, Madison, Wis. Antimycin and production. 2,657,170, Oct. 27.

Kelly, Daniel A., assignor to The Prime Manufacturing Company, Milwaukee, Wis. Car wheel flange lubricator. 2,656,898, Oct. 27.

Kelly, John H., Pittsburgh, Pa. Machine for simultaneously conditioning the attaching surface and trimming the edge of unattached shoe soles. 2,656,555, Oct. 27.

Kelly, Richard, London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electrical power supply systems for communication system repeaters. 2,657,279, Oct. 27.

Kennedy, Daniel G., assignee: *See*—
Schepp, William J.

Kennedy, J. Lawrence, assignee: *See*—
Schepp, William J.

Kenworth Motor Truck Corporation, assignee: *See*—
Sims, Hendrick E.

Kern, Walter: *See*—
Koch, Jacob, and Kern.

Kerrigan Iron Works, Inc., assignee: *See*—
Kerrigan, Philip, Jr.

Kerrigan, Philip, Jr., assignor to Kerrigan Iron Works, Inc., Nashville, Tenn. Grating. 2,656,903, Oct. 27.

Kershaw, John G., Oak Bay, Victoria, British Columbia, and H. Fisher, Mount Royal, Quebec, assignors to Dominion Textile Company Limited, Montreal, Quebec, Canada. Condensing sliver. 2,656,573, Oct. 27.

Kessels, Franciscus A. H., Venlo, Netherlands, assignor to Chemische Fabriek L. van der Grinten. Developer for the positive diazotype-process containing a borate, a polyhydroxy alcohol, and a coupler component. 2,657,137, Oct. 27.

Kessels, Franciscus A. H., assignor to Chemische Fabriek L. van der Grinten, Venlo, Netherlands. Developer for diazotype materials. 2,657,140, Oct. 27.

Kessels, Franciscus A. H., assignor to Chemische Fabriek L. van der Grinten N. V., Venlo, Netherlands. Diazotype developer composition containing a potassium borate and using same. 2,657,141, Oct. 27.

Kestner, William N., W. C. Kohfeldt and L. C. Barillier, Baton Rouge, La., assignors to Standard Oil Development Company. Automatic sampler for liquid hydrocarbon streams. 2,656,725, Oct. 27.

Ketelsen, Peter, Wichita, Kans. Apparatus for supplying a liquid to a fluid pressure medium under flow. 2,656,899, Oct. 27.

Kiekhaefer Corporation, assignee: *See*—
Hartz, Marvin E.

Kiekhaefer, Elmer C., Cedarburg, Wis. Gear case unit for outboard motors. 2,656,812, Oct. 27.

Kiekhaefer, Elmer C., Cedarburg, Wis. Outboard motor-driven hydroplaning boat. 2,656,814, Oct. 27.

Kiekhaefer, Elmer C., Cedarburg, Wis. Bracket mounting for outboard motors. 2,656,813, Oct. 27.

Kilby, Cornelius E.: *See*—
Gannon, Alfred C., Kilby, and Rupp.

Kincaid, Homer F., Carbon Cliff, Ill., J. D. Graham, Louisville, Ky., D. J. Reynolds, Chicago, Ill., and E. M. Wharff, Baltimore, Md., assignors to Westinghouse Electric Corporation and International Harvester Company. Electronic heat-treating device. 2,657,301, Oct. 27.

Kincaide, Merrill C., Detroit, assignor to Dearborn Motors Corporation, Highland Park, Mich. Bearing for disk tools. 2,657,103, Oct. 27.

Kingan & Co., Incorporated, assignee: *See*—
Gannon, Alfred C., Kilby, and Rupp.

Kish, Alexander J.: *See*—
Deatrick, Arthur H., and Kish.

Kjellgren, Sigfred P., Rockford, Ill. Sliding closure. 2,657,111, Oct. 27.

Klarer, Joseph, and H. Timmler, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y. Producing alkylene-bis-dithio-alkylene and -arylene-dicarboxylic acids. 2,657,231, Oct. 27.

Klarer, Joseph, and R. Behnisch, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y. Preparation of thiosemicarbazides. 2,657,234, Oct. 27.

Kleen, Werner, O. Döhler, and H. Huber, Paris, France, assignors to Compagnie Generale de Telegraphie Sans Fil. Ultra short wave generator having a wide bank of oscillation frequencies. 2,657,314, Oct. 27.

Klein, David X., Passaic, and M. N. Curgan, Clifton, N. J., assignors to Heyden Chemical Corporation, New York, N. Y. Composition comprising a polyvinyl chloride resin, a plasticizer and a viscosity controlling agent. 2,657,186, Oct. 27.

Kleis, Leonard F., Oak Park, assignor to K-G Electronics Corporation, Chicago, Ill. Antenna. 2,657,311, Oct. 27.

Klinger, James D.: *See*—
Van Horn, John C., Ohlmann, Klinger, and Wright.

Klingerit, Inc., assignee: *See*—
Strahman, Dietrick.

Klug, Walter C., Yonkers, N. Y., assignor to Ward Leonard Electric Company. Electromagnetic audio amplifier. 2,657,281, Oct. 27.

Knapp-Monarch Company, assignee: *See*—
Holstein, Alvin W.

Knol, Kornelis S., and A. van der Ziel, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Traveling wave tube mixing apparatus. 2,657,305, Oct. 27.

Knol, Kornelis S., and A. van der Ziel, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Traveling wave amplifier tube. 2,657,328, Oct. 27.

"Knotex" Maschinenbau G. m. b. H., assignee: *See*—
Birr, Max.

Knott, Edward B., and P. K. Brooks, Harrow, England, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic antiplumming agents and compositions containing them. 2,657,136, Oct. 27.

Koch, Jacob, Basel, and W. Kern, Sissach, assignors to Ciba Limited, Basel, Switzerland. Vat dyestuff. 2,657,221, Oct. 27.

Koch, William F., assignor to Toledo Scale Company, Toledo, Ohio. Key-operated type positioning device. 2,656,787, Oct. 27.

Kohfeldt, Walter C.: *See*—
Kestner, William N., Kohfeldt, and Barillier.

Kolbe, Joachim, Milwaukee, Wis. Vehicle with intercushioned banking and vertical oscillation suspension for the superstructure. 2,657,067, Oct. 27.

Kollgaard, Reyner, Media, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Elutriator for hydrocarbon conversion systems. 2,656,920, Oct. 27.

Korski, Frank S., Brentwood, assignor to The Emerson Electric Manufacturing Company, St. Louis, Mo. Cast rotor. 2,657,324, Oct. 27.

Kramer Trenton Company, assignee: *See*—
Plumeri, John, and Reisinger.

Kraus, Edwin C., and M. V. Douthitt, Ortonville, Minn. Means for conveying and arranging cans in rows. 2,656,910, Oct. 27.

Kreidl, Norbert J., Brighton, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Borosilicate optical glass. 2,657,146, Oct. 27.

Kreuser, Ben L., Denver, Colo. Combined sleeping bag and tent. 2,656,844, Oct. 27.

Krohm, Fred A., Gary, Ind., assignor to Productive Inventions, Inc. Coupling means. 2,657,083, Oct. 27.

Krtous, George F., assignor to De Vry Corporation, Chicago, Ill. Mechanism for facilitating the removal of a lamp from its socket. 2,657,366, Oct. 27.

Krueger, Frank W., assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Filling machine. 2,656,963, Oct. 27.

Krust, Walter, Brooklyn, assignor to Jacoby-Bender, Inc., New York, N. Y. Display card for bracelets and the like. 2,656,919, Oct. 27.

Kucera, Joseph B., Traer, Iowa, assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Plant spraying machine. 2,657,093, Oct. 27.

Kuhar, Petter, Cleveland, Ohio. Electric regulator device and system for charging storage batteries. 2,657,351, Oct. 27.

Kurland, Maurice L., assignee: *See*—
Kayser, Allan J.

Kurnick, Abraham, and L. Brownstein, assignors to Finkurn Enterprises, Inc., New York, N. Y. Film packet. 2,656,772, Oct. 27.

Kurth, Fred F., Bakersfield, Calif. Storage battery. 2,657,249, Oct. 27.

Kurzweil, Robert, Kew Gardens, assignor to Morey Machinery Co. Inc., Astoria, N. Y. Tool slide arrangement. 2,656,752, Oct. 27.

Kvasnok, Eunyce M.: *See*—
Kvasnok, John D. and E. M., and Cutler.

Kvasnok, John D. and E. M., North Miami, and A. B. Cutler, Miami, Fla. Frusto-conical container. 2,656,969, Oct. 27.

Labus, Otto A., assignor to The Trane Company, La Crosse, Wis. Adjustable air distributor. 2,656,782, Oct. 27.

Laing, Gordon F., Delavan, Wis., assignor to Economy Fuse and Manufacturing Co., Chicago, Ill. Lag fuse. 2,657,294, Oct. 27.

Lallier, Cécile, nee Leblanc, Granby, Quebec, Canada. Means for raising and lowering a center leaf in extension tables. 2,657,108, Oct. 27.

La Monica, Samuel, assignee: *See*—
Vargo, John J.

Landes, Chester G.: *See*—
Daniel, John H., Landes, and Suen.

Lang, Gregor L., Suffield, Conn. Gearless speed reduction mechanism. 2,656,737, Oct. 27.

Langdon, Robert S., assignor to Western Gear Works, Seattle, Wash. Fluid operated friction clutch. 2,656,905, Oct. 27.

Langford, John E., Littleton, N. H. Mitten. 2,656,544, Oct. 27.

Lapish, Arlington V., Jackson, Mich., assignor to Capehart-Farnsworth Corporation. Change cycle control mechanism. 2,657,060, Oct. 27.

Larrick, Carlos M., Columbus, Ohio. Hospital bed convertible to chair. 2,656,876, Oct. 27.

Laskowski, Stanley C.: *See*—
Clinton, Raymond O., and Laskowski.

Lawtex Corporation, assignee: *See*—
Montgomery, Julius.

Laxo, Ed., Oakland, Calif. Can body maker. 2,656,806, Oct. 27.

Lazzery, Angelo G., Oaklyn, N. J., assignor to Radio Corporation of America. Variable inductance and mounting means therefor. 2,657,365, Oct. 27.

Leavenworth, Edgar K., Birmingham, Mich., assignor to Climax Molybdenum Company, New York, N. Y. Die mechanism for extruding compressed powder rods. 2,656,743, Oct. 27.

Leben, Curt: *See*—
Keitt, George W., Leben, and Strong.

Lebensfeld, Moe: *See*—
Buxbaum, Mac, and Lebenfeld.

Leeds and Northrup Company, assignee: *See*—
Bristol, Edward S.
McAdam, Will.
Williams, Albert J., Jr.

Lemoine, Gaston: *See*—
Perrier, Fernand, and Lemoine.

Le Noir, Chester W., San Francisco, Calif. Telephone support and switch control mechanism. 2,657,278, Oct. 27.

Lesher, Robert B.: *See*—
Greene, Claude E., and Lesher.

Lester Engineering Company, assignee: *See*—
Schwartz, William H.

Lesti, Arnold, Nutley, N. J. Color television receiver. 2,657,257, Oct. 27.

Leupold, Glenn W., assignor to A. O. Smith Corporation, Milwaukee, Wis. Lined container and welded joint therein. 2,656,949, Oct. 27.

Lewin, Jacob W., deceased, Oak Park, Ill., L. E. Lewin, administratrix. Rocking type pipe bender with adjustable gauge means. 2,656,747, Oct. 27.

Lewin, Lillie E., administratrix: *See*—
Lewin, Jacob W.

Ligett, Waldo B., Berkley, R. D. Closson, Detroit, and C. N. Wolf, Ferndale, Mich., assignors to Ethyl Corporation, New York, N. Y. N-aminophthalic imides and salts thereof as fungicidal compositions. 2,657,169, Oct. 27.

Lincoln, Clovis W., and P. B. Ziegler, Saginaw, and R. A. Malone, Chesaning, assignors to General Motors Corporation, Detroit, Mich. Direction signal switch. 2,657,287, Oct. 27.

Lindeman, Jesse G., Yakima, Wash., assignor to Deere & Company, Moline, Ill. Overload brake means for vehicles. 2,656,893, Oct. 27.

Lindsay, Wesley N., San Jose, Calif., assignor to Food Machinery and Chemical Corporation. Apparatus for testing and controlling the concentration of solutions. 2,656,845, Oct. 27.

Lockhart, Robert K., Collingswood, N. J., assignor to Radio Corporation of America. Size control for cathode-ray tube deflection circuits. 2,657,332, Oct. 27.

Lockwood, Lewis B.: *See*—
Pfeifer, Virgil F., Nelson, Vojnovich, and Lockwood.

Loeb, Morris, New York, N. Y. Connecting device. 2,656,550, Oct. 27.

Lolkema, Jan, Hoogezand, assignor to Naamloose Vennootschap: W. A. Scholten's Chemische Fabrieken, Groninzen, Netherlands. Forming an insoluble coating. 2,657,155, Oct. 27.

Lovelace, Clive E. C.: *See*—
Mildner, Raymond C., and Lovelace.

Lovell, Louis R., and J. E. West, Jr., assignors to SKF Industries, Inc., Philadelphia, Pa. One-piece roller bearing cage. 2,657,106, Oct. 27.

Lovington, Julius A., Rutherford, N. J. Valve with twistable sleeve. 2,657,004, Oct. 27.

Lowe, Wesley G., and M. E. Hamshire, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic emulsions and solutions containing thioglycolic acid derivatives. 2,657,135, Oct. 27.

Lowry, Erwin F.: *See*—
Homer, Horace H., and Lowry.

Lucas, Guy L., W. D. Edwards, and R. S. Chaffin, assignors to Trail Lock Corporation, Akron, Ohio. Lock collar for trailer kingpins. 2,656,706, Oct. 27.

Luitwieler, Edward B., Malden, assignor to American Stay Company, East Boston, Mass. Reinforced leather stripping and making the same. 2,657,161, Oct. 27.

Lummus Company, The, assignee: *See*—
Rollins, Jennings F.

Lundstrom, Ida, St. Louis, Mo. Curtain fixture. 2,656,934, Oct. 27.

Lyon, Incorporated, assignee: *See*—
Judd, John S.

Macek, Thomas J., Irvington, and E. J. Hanus, Bayonne, assignors to Merck & Co., Inc., Rahway, N. J. Storage- and autoclave-stable concentrated dihydrostreptomycin solution. 2,657,171, Oct. 27.

Mader, Emil A., assignor of one-half to J. Spargo, Detroit, Mich. Combined fluid impeller and self-sealing closure. 2,656,971, Oct. 27.

Mahr, Carl W., Esslingen (Neckar), Germany. Testing apparatus for gears. 2,656,614, Oct. 27.

Maier, Karl W.: *See*—
Stevens, Charles H., and Maier.

Malone, Ralph A.: *See*—
Lincoln, Clovis W., Zeigler, and Malone.

Maloney, John W.: *See*—
Dames, Trent R., Moore, and Maloney.

Maloney, Martin E., Flushing, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sender overload control. 2,657,273, Oct. 27.

Mammen, Howard E.: *See*—
Bloch, Herman S., and Mammen.

Mancuso, Emanuel, Burbank, Calif. Rotary and sliding bolt lock. 2,656,704, Oct. 27.

Mankowich, Ivan, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Preparation of ketone-diarylamine condensates. 2,657,236, Oct. 27.

Mann, William H., and E. V. Schmidt, assignors to Hossfeld Manufacturing Company, Winona, Minn. Iron bending machine. 2,656,872, Oct. 27.

Mansfield, Judson H., assignor to Greenlee Bros. & Co., Rockford, Ill. Forging a headed element. 2,656,739, Oct. 27.

Mansfield, Wilfred P., and A. H. Cornish, Slough, assignors, by mesne assignments, to National Research Development Corporation, London, England. Balanced pressure pickup. 2,656,722, Oct. 27.

Marion, Ernest S., Walsh, Colo. Motor vehicle air conditioner. 2,657,027, Oct. 27.

Martens, Robert E., and L. A. Whinnery, assignors to Stone Crest Studios, Inc., Charleston, W. Va. Apparatus for production of reliefs. 2,656,766, Oct. 27.

Martin-Decker Corporation, assignee: *See*—
Webber, Louis Q.

Martin Hardsocg Co., The, assignee: *See*—
McGlothlen, John L.

Mason, David F.: *See*—
Robinson, Ewen D., and Mason.

Mason, Ralph B., Baton Rouge, La., assignor to Standard Oil Development Company. Desulfurization of heavy petroleum oils. 2,657,175, Oct. 27.

Mast, George W., South Salem, and F. E. Anderson, Yonkers, assignors to Nepera Chemical Co., Inc., Nepera Park, Yonkers, N. Y. Hemiacetals. 2,657,241, Oct. 27.

Mattison Machine Works, assignee: *See*—
Peterson, Gustaf J.

Mattson, Victor E., Jr., Brooklyn, N. Y. Alarm for wrist watches. 2,656,673, Oct. 27.

Maytag Company, The, assignee: *See*—
Smith, Thomas R.

McAdam, Will, Ambler, assignor to Leeds and Northrup Company, Philadelphia, Pa. Control system for multiple-point measuring instrument. 2,657,376, Oct. 27.

McCarty, Leeman J., Kalamazoo, Mich. Sectional carbon electrode. 2,657,326, Oct. 27.

McConnell, Glenn, assignor of one-third to M. McConnell, Pontiac, Mich. Colostomy unit. 2,656,838, Oct. 27.

McConnell, Melba, assignee: *See*—
McConnell, Glenn.

McConnohie, Edward S.: *See*—
Garner, Lawrence M., and McConnohie.

McDonald, Dan, assignor to Aurora Research Industries, Inc., Aurora, Ill. Apparatus for cold dry cleaning. 2,656,696, Oct. 27.

McDonald, Eugene F., Jr., Chicago, Ill. Advertising device. 2,656,630, Oct. 27.

McDonnell Aircraft Corporation, assignee: *See*—
Kallal, George W.

McDonough, Marshall J., and E. E. Burchett, Waukegan, Ill., assignors to American Can Company, New York, N. Y. Can filling machine having reciprocating product contacting plunger and moisture projecting device therefor. 2,656,966, Oct. 27.

McEwen, Norman S., Fort Lauderdale, Fla., assignor to Mul-T-Typer Corporation, Richmond, Ind. Duplicating attachment for typewriters. 2,656,909, Oct. 27.

McGee, Richard R., New Britain, Conn., assignor, by mesne assignments, to General Electric Company. Weatherproof enclosure for electrical devices. 2,656,948, Oct. 27.

McGlothlen, John L., assignor to The Martin Hardsocg Co., Pittsburgh, Pa. Trolley wire contact device. 2,657,284, Oct. 27.

McGowan, Douglas C.: *See*—
Butler, Judson C., and McGowan.

McGregor, Floyd E.: *See*—
Kearney, Thomas J., and McGregor.

McGrew, Frank C., Wilmington, Del., and P. S. Pinkney, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Copolymers of acetylene with certain vinylidene compounds. 2,657,200, Oct. 27.

McKee Door Company, assignee: *See*—
McKee, James H.

McKee, James H., assignor to McKee Door Company, Aurora, Ill. Overhead door wheel mount. 2,656,561, Oct. 27.

McNairy, Jacob W., Westport, Conn., assignor to General Electric Company. Coffee maker. 2,657,299, Oct. 27.

McPhar Engineering Company of Canada Limited, The, assignee: *See*—
Cartier, William O.

McRae, Denver D., Ivanhoe, Tex. Boat anchor. 2,656,811, Oct. 27.

Mealpack Corporation, assignee: *See*—
Clarke, Houghton W.

Meek, George W., Pelham, assignor to Airkem, Inc., New York, N. Y. Combination diffuser device and article supporting base. 2,657,090, Oct. 27.

Meier, Theodore, Darrouzett, Tex. Wind controlled feed trough. 2,656,819, Oct. 27.

Melchior, Effie B., assignee: *See*—
Melchior, Frederick C.

Melchior, Frederick C., assignor of one-half to E. B. Melchior, New York, N. Y. Pressure responsive photoelectric indicating, measuring, and control device. 2,656,721, Oct. 27.

Mellen, Alice M., assignee: *See*—
Mellen, William F.

Mellen, William F., assignor to A. M. Mellen, Whittier, Calif. Automatic trip for two-way plow. 2,656,774, Oct. 27.

Mellor Bromley & Company Limited, assignee: *See*—
Shortland, Arthur.

Mengali, Otavio J., and A. E. Middleton, Columbus, Ohio, assignors, by mesne assignments, to The Haloid Company, Rochester, N. Y. Producing an electrophotographic plate. 2,657,152, Oct. 27.

Merck & Co., Inc., assignee: *See*—
Macek, Thomas J., and Hanus.

Messing, Clarence O., Gilead, Nebr. Water system. 2,656,795, Oct. 27.

Messing, Hjalmar S., assignor to American Defibrator, Inc., New York, N. Y. Discharge device for finely divided fibrous material from a pressure system. 2,657,131, Oct. 27.

Metal Carrier Corporation, assignee: *See*—
Stevenson, Ralph W.

Metallgesellschaft Aktiengesellschaft, assignee: *See*—
Wendeborn, Helmut.

Metcalf, William A., West Lampeter Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Device for feeding sheet materials. 2,657,050, Oct. 27.

Meunier, Marcel, Cuesmes, assignor to Ateliers de Constructions Electriques de Charleroi, Brussels, Belgium. Dictating machine. 2,657,062, Oct. 27.

Micucci, Dominic D.: *See*—
Evans, John L., and Micucci.

Middleton, Arthur E.: *See*—
Mengali, Otavio J., and Middleton.

Miessner, Benjamin F., assignor to Miessner Inventions Inc., Harding Township, Morris County, N. J. Apparatus for the production of music. 2,656,755, Oct. 27.

Miessner Inventions Inc., assignee: *See*—
Miessner, Benjamin F.

Mietzsch, Frits: *See*—
Schmidt, Hans, Mietzsch, and Behnisch.

Mildner, Raymond C., Oxhey, and C. E. C. Lovelace, Blackheath, London, assignors to Telegraph Construction & Maintenance Company, Limited, London, England. Joint for coaxial electrical cables. 2,657,252, Oct. 27.

Miller, Graeme R. M., Steppe, Glasgow, Scotland. Automatic machine for molding pie shells from dough. 2,656,798, Oct. 27.

Miller, Henry C., Claymont, and H. S. Rothrock, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerization of acrolein. 2,657,192, Oct. 27.

Miller, John A.: *See*—
Hugo, Victor J., Miller, and Ottinger.

Miller, John W., and V. H. Hill, assignors to Motor Wheel Corporation, Lansing, Mich. Electric ignition and control for vaporizing oil burners. 2,656,883, Oct. 27.

Miller, Lewis L., South Bend, Ind., assignor, by mesne assignments, to Avco Manufacturing Corporation, New York, N. Y. Control mechanism for combination washers and driers. 2,656,695, Oct. 27.

Miller Printing Machinery Co., assignee: *See*—
Saul, August A.

Milprint, Inc., assignee: *See*—
Huitkrang, Paul B.

Miner, W. H., Inc., assignee: *See*—
Danielson, Vernon S., and Anderson.
Danielson, Vernon S., and Tillou.
Dath, George E.
Tillou, Richard G.

Minister of National Defence for Canada, The, assignee: *See*—
Cowie, Wilbur E., and Blouin.

Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, assignee: *See*—
Williams, Frederic C.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Cummings, Kimball C.
Drow, Donald F.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Stephens, Joseph F.

Mitchell, John E., Company, assignee: *See*—
Mitchell, Orville.

Mitchell, Orville, assignor to John E. Mitchell Company, Dallas, Tex. Pulley and making same. 2,656,730, Oct. 27.

Mittomme, Peter: *See*—
Bunch, Peter, Mittomme, and Jennings.

Modine Manufacturing Company, assignee: *See*—
Simpelaar, Clyde S.
Spieth, Benjamin.

Mogler, John H., Denville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Crossbar switch. 2,657,275, Oct. 27.

Mohn, Donald R., Troutdale, and M. E. Mohn, Portland, Oreg. Tractor attached grub hoe. 2,656,777, Oct. 27.

Mohn, Milburne E.: *See*—
Mohn, Donald R. and M. E.

Monarch Machine Tool Company, The, assignee: *See*—
Greene, Claude E., and Lesher.
Wilhelm, Walter F., and De Haas.

Mondino Fravega, Luis A. J.: *See*—
Viera Rios, Lionel I.

Monsanto Chemical Company, assignee: *See*—
Morris, Herbert E.

Montgomery, Delray, administratrix: *See*—
Montgomery, Julius.

Montgomery, Donald H., West Hartford, assignor to The New Britain Machine Company, New Britain, Conn. Machine tool. 2,656,587, Oct. 27.

Montgomery, Donald H., West Hartford, assignor to The New Britain Machine Company, New Britain, Conn. Tool-carrier stop. 2,656,753, Oct. 27.

Montgomery, Julius, deceased, Dalton, Ga., by D. Montgomery, administratrix, assignor to Lawtex Corporation, Dalton, Ga. Tufting machine for producing ornamental designs. 2,656,803, Oct. 27.

Moore, William D., assignor to Brunson Instrument Co., Kansas City, Mo. Apparatus for measuring relative angular movements. 2,656,818, Oct. 27.

Moore, William W.: *See*—
Dames, Trent R., Moore, and Maloney.

Moran, William O., Tulsa, Okla. Gas heater. 2,656,833, Oct. 27.

Morey, Carl, assignor to Economy Pumps, Inc., Hamilton, Ohio. Rotary pump and motor hydraulic transmission system. 2,656,679, Oct. 27.

Morey Machinery Co. Inc., assignee: *See*—
Kurzweil, Robert.

Morris, Herbert E., Lamarque, Tex., assignor to Monsanto Chemical Company, St. Louis, Mo. Corrosion inhibitor. 2,657,217, Oct. 27.

Morris, John V. Plymouth, Pa. Floral display attachment for vehicles. 2,657,087, Oct. 27.

Moser, Eduard, Basel, Switzerland, assignor to Ciba Limited. Azo dyestuffs. 2,657,202, Oct. 27.

Moser, Otto, Bern, Switzerland. Apparatus for the transmission of current pulse combinations, particularly for teletyping. 2,657,260, Oct. 27.

Mosher, Ezra D.: *See*—
Johnson, Lloyd A., Mosher, and Stephens.

Motor Wheel Corporation, assignee: *See*—
Miller, John W., and Hill.

Mowers, Guilford H., Fargo, N. Dak. Clamp retainer. 2,657,372, Oct. 27.

Mumy, Glenn, Springfield, Ohio. Method of and apparatus for automatic ice-making. 2,656,689, Oct. 27.

Mulavey, James E., assignor to The Detroit Edison Company, Detroit, Mich. Instrument for determining ratio and polarity of transformers. 2,657,356, Oct. 27.

Mulcahy, Hugh, Beaver, Pa. Pitcher's control target with automatic ball return. 2,657,058, Oct. 27.

Mulhern, Marvin J., and C. E. Rettig, Schenectady, N. Y., assignor to General Electric Company. Electric valve excitation and control circuit. 2,657,337, Oct. 27.

Mutchmor, James S.: *See*—
Phillips, Norman W. F., Hollingshead, and Mutchmor.

Mul-T-Typer Corporation, assignee: *See*—
McEwen, Norman S.

Murdoch, John P., and A. J. Faulhaber, Ardmore, Pa. Article handling machine. 2,656,656, Oct. 27.

Murphy, John T.: *See*—
Hansen, Harold V., and Murphy.

Murphy, John T., Brownsville, Tenn., assignor to Harry Ferguson, Inc., Detroit, Mich. Planter unit. 2,656,951, Oct. 27.

Myers, Mark, Shepherds Bush, London, England. Rotating amusement apparatus. 2,657,054, Oct. 27.

N. V. Optische Industrie "De Oude Delft," assignee: *See*—
Blaisse, Berndt S.

Naamlooze Venootschap: W. A. Scholten's Chemische Fabrieken, assignee: *See*—
Lolkema, Jan.

Nahman, Gustave, Englewood, N. J., assignor of one-half to H. E. Rubens, New York, N. Y. Making clothing from component parts of sheet material. 2,657,159, Oct. 27.

National Broach & Machine Company, assignee: *See*—
Praeg, Walter S.

National Cash Register Company, The, assignee: *See*—
Werner, Frank R.

National Dairy Research Laboratories, Inc., assignee: *See*—
Spiess, Newton E., Jr., Gropen, and Weaver.

National Distillers Products Corporation, assignee: *See*—
Burgison, Raymond M., Forman, and Zink.

National Folding Box Company, Inc., assignee: *See*—
Carruth, Herman A.
De Palma, Amedeo.

National Motor Bearing Co., Inc., assignee: *See*—
Johnson, Lloyd A., Mosher, and Stephens.
Johnson, Lloyd A.

National Research Development Corporation, assignee: *See*—
Mansfield, Wilfred P., and Cornish.

National Steel Corporation, assignee: *See*—
Thompson, Thomas A.

National Tank Company, assignee: *See*—
Glasgow, Clarence O.

Nebel, Richard W., Waynesboro, Va., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Controlled, heterogeneous hydrolysis of polymeric esters. 2,657,201, Oct. 27.

Nedschroef Octrooi Maatschappij N. V., assignee: *See*—
Van Haandel, Adrianus.

Neely, John E., Cleveland, Ohio. Reel structure for shortening wire cords. 2,656,991, Oct. 27.

Nels, Harry B., and R. W. Wood, Harrisonville, assignors of one-half to said Nels and one-half to E. C. Alexander, Creighton, Mo. Jack. 2,657,009, Oct. 27.

Nelsler Mills, Inc., assignee: *See*—
Jackson, Howard B.

Nelson, George E. N.: *See*—
Pfeifer, Virgil F., Nelson, Vojnovich, and Lockwood.

Nelson, Seddon C., Front Royal, Va., assignor to American Viscose Corporation, Wilmington, Del. Thread advancing reel. 2,656,584, Oct. 27.

Nepera Chemical Co., Inc., assignee: *See*—
Mast, George W., and Anderson.

Newberg, Raymond G.: *See*—
Young, David W., and Newberg.

Newbery, Stanley, assignor of one-half to Stanley Newbery Limited, New Barnet, England. Garment and like presses. 2,656,625, Oct. 27.

Newberry, Stanley, Limited, assignee: *See*—
Newbery, Stanley.

New Britain Machine Company, The, assignee: *See*—
Montgomery, Donald H.
Retz, William B.

New, Fred M., New York, N. Y. Process and means for metallizing nonconductive bases. 2,657,097, Oct. 27.

Newman, Percy A.: *See*—
Creson, William K., Newman, and Berghoff.

Newton, Charles G., Hamilton, Ontario, Canada, assignor, by mesne assignments, to Textile Machine Works, Wyomissing, Pa. Yarn carrier of knitting machines. 2,656,693, Oct. 27.

Nichols, Charles M., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Cooling apparatus. 2,657,036, Oct. 27.

Nichols, William M., Schenectady, assignor to American Locomotive Company, New York, N. Y. Fuel pump delivery valve. 2,656,851, Oct. 27.

Nicholson, Andrew: *See*—
Hyams, Montagu, and Nicholson.

Nicolet, Nicholas E., assignor of thirty-three and one-third per cent to T. Hafner, New York, N. Y. Improvement in or relating to slide rules. 2,656,978, Oct. 27.

Nilsson, Fabian, Stockholm, Sweden. Lock mechanism. 2,656,707, Oct. 27.

Nilsson, Hans E., Handol, assignor to Aktiebolaget Tegelindustriella Byran, Stockholm, Sweden. Fork for elevating trucks. 2,656,943, Oct. 27.

Noon, T Cyril, Bainbridge Township, Geauga County, and F. C. Bayer, assignors to Thompson Products, Inc., Cleveland, Ohio. Duplex flow control apparatus. 2,656,848, Oct. 27.

North American Aviation, Inc., assignee: *See*—
Brown, Henry R., Jr.

Norton Company, assignee: *See*—
Comstock, George E., 3d.
Erickson, John R.

O'Brien, Clayton W.: *See*—
Conzelman, John E., Jr., Ellis, and O'Brien.

Oerman, Orey W., assignor to Deere & Company, Moline, Ill. Power lift. 2,656,775, Oct. 27.

Ohio Brass Company, The, assignee: *See*—
Huston, Elmo F.
Smith, Edward P.

Ohlmann, Edward O.: *See*—
Van Horn, John C., Ohlmann, Klinger, and Wright.

Oilgear Company, The, assignee: *See*—
Douglas, James K. and W. G.

Olsen, John C.: *See*—
Boyce, John, and Olsen.

On-A-Lite Corporation, assignee: *See*—
Brooks, Linzy W.

O'Neill, Paul A., assignor to Union Machine Company, San Francisco, Calif. Liquid level gauge. 2,656,611, Oct. 27.

O'Neil, Paul T., Englewood, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Rectifier stack. 2,657,344, Oct. 27.

Orochena, Salvador F., assignor to Pittsburgh Coke & Chemical Company, Pittsburgh, Pa. Manufacture of thiophosphate esters. 2,657,229, Oct. 27.

Osbon, John W., Jr. Dayton, Ohio. Mattress with toilet attachment. 2,656,549, Oct. 27.

Ostendorf, Bernard, Jr., Stamford, Conn., and R. A. Vanderlippe, Bloomfield, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Communication signal lamp control circuit. 2,657,336, Oct. 27.

Ostier, Marius H., Mereville, France. Seed pellet. 2,656,649, Oct. 27.

Ottinger, Eulalia E., executrix: *See*—
Hugo, Victor J., Miller, and Ottinger.

Ottinger, Harry: *See*—
Hugo, Victor J., Miller, and Ottinger.

Outboard, Marine & Manufacturing Company, assignee: *See*—
Conover, Warren C.

Ovshinsky, Stanford, assignor to The Stanford Roberts Manufacturing Company, Akron, Ohio. Retractable bar feeding machine. 2,656,588, Oct. 27.

Page, Alfred C., Belgrano, Buenos Aires, Argentina, assignor to Wright's Biscuits Limited, South Shields, England. Method of and means for handling biscuits. 2,656,907, Oct. 27.

Page, Robert G., New Britain, Conn., assignor to General Electric Company. Thermal element for switch mechanisms. 2,657,292, Oct. 27.

Paillard S. A., assignee: *See*—
Favre, Jules.

Paper Art Company, Inc., assignee: *See*—
Buechek, John.

Parker, Louis W., Little Neck, assignor to International Standard Electric Corporation, New York, N. Y. Electronic color television. 2,657,331, Oct. 27.

Parker Rust-Proof Company, assignee: *See*—
Hyams, Montagu, and Nicholson.

Parks, Nathan S., Springfield, Pa., assignor to Radio Corporation of America. Duplex radio apparatus control. 2,657,304, Oct. 27.

Patents, Inc., assignee: *See*—
Colquitt, Odie.

Patton, Richard A., Pittsburgh, Pa., assignor to Texas Gulf Sulphur Company, New York, N. Y. Conversion of sulfur dioxide to sulfur with hydroquinones. 2,657,119, Oct. 27.

Paul, Joseph N., Norwalk, Conn. Signal control system. 2,657,375, Oct. 27.

Paul, Talbert W., assignor to Deere & Company, Moline, Ill. Cotton harvester. 2,656,665, Oct. 27.

Payne, William H., Hinsdale, Ill. Adjusting system for furnace controls. 2,657,327, Oct. 27.

Peczeniuk, Dorothy: *See*—
Bisaga, Theodore, and Peczeniuk.

Peebles, David D., Hillsborough, and M. D. Girvin, San Anselmo, assignors to Western Condensing Company, San Francisco, Calif. Reconstituted milk process. 2,657,142, Oct. 27.

Perrier, Fernand, Neauphle-le-Chateau, and G. Lemoine, Auteuil par Tholry, France. Machine for sawing stones and the like. 2,656,832, Oct. 27.

Pescatori, Igino P., New York, N. Y. Educational toy. 2,656,618, Oct. 27.

Peters, Ernest W., Duluth, Minn. Slack stabilizer. 2,656,939, Oct. 27.

Peterson, Adolphe C., Minneapolis, Minn. Combustion gas and steam power generating unit. 2,656,677, Oct. 27.

Peterson, Gustaf J., assignor to Mattison Machine Works, Rockford, Ill. Variable stroke power actuator. 2,656,681, Oct. 27.

Petraline, Alexander J.: *See*—
Bigsby, Vernon L., and Petraline.

Pfeifer, George F., assignor to Quincy Compressor Company, Quincy, Ill. Compressor starting pressure relieving attachment. 2,656,970, Oct. 27.

Pfeifer, Virgil F., and G. E. N. Nelson, Peoria, and C. Vojnovich, Washington, Ill., and L. B. Lockwood, Glen Rock, N. J., assignors to the United States of America as represented by the Secretary of Agriculture. Production of itaconic acid. 2,657,173, Oct. 27.

Pharis, William W., Rochester, N. Y., assignor to Stromberg-Carlson Company. Telephone system coin control adapter and connector. 2,657,267, Oct. 27.

Phelps, Clyde H.: *See*—
Weaver, Ira A., and Phelps.

Phillips, Fae C., Fort Wayne, Ind., assignor to International Harvester Company. Combined hinge and latch. 2,656,562, Oct. 27.

Phillips, John J.: *See*—
Schwester, Daniel P., and Phillips.

Phillips, Norman W. F., E. A. Hollingshead, and J. S. Mutchmor, Arvida, Quebec, assignors to Aluminum Laboratories Limited, Montreal, Quebec, Canada. Purifying carbonaceous material. 2,657,118, Oct. 27.

Phillips Petroleum Company, assignee: *See*—
Garretson, Owen L.
Goodhue, Lyle D., and Tissol.
Piety, Raymond G.
Sperberg, Lawrence R.
Weber, Louis J.

Phillips, Washington H., and G. E. Gard, assignors to Armstrong Cork Company, Lancaster, Pa. Recirculation system. 2,657,094, Oct. 27.

Phillipson, Philip W., Denver, Colo. Reel seat. 2,656,639, Oct. 27.

Pierce, John B., Foundation, assignee: *See*—
Cataldo, John B., and Tidd.

Pierle, Edward W., Cleveland, Ohio. Article support. 2,656,933, Oct. 27.

Piety, Raymond G., Bartlesville, Okla., assignor to Phillips Petroleum Company. Apparatus for seismic exploration. 2,657,373, Oct. 27.

Pinkney, Paul S.: *See*—
Barney, Arthur L., and Pinkney.
McGrew, Frank C., and Pinkney.

Pinkney, Paul S., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dilute alkali dispersible hot melt bookbinding adhesives. 2,657,189, Oct. 27.

Pittsburgh Coke & Chemical Company, assignee: *See*—
Orochena, Salvador F.

Plastic Patents, Incorporated, assignee: *See*—
Hoffmann, Eugene H.

Plumb, Edwin W., assignee: *See*—
Javery, William A.

Plumeri, John, and A. L. Reisinger, assignors to Kramer Trenton Company, Trenton, N. J. Producing heat exchange elements. 2,656,808, Oct. 27.

Poole, Loyd Y., Glendale, Calif. Boring bar. 2,656,742, Oct. 27.

Porter, Donald C., Bakersfield, Calif. Surveying instrument. 2,656,606, Oct. 27.

Praeg, Walter S., assignor to National Broach & Machine Company, Detroit, Mich. Grinder. 2,656,655, Oct. 27.

Prendergast, James J., Erie, Pa., assignor to General Electric Company. Fluid supply system. 2,656,927, Oct. 27.

Prime Manufacturing Company, The, assignee: *See*—
Kelly, Daniel A.

Prior, Hector T., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Carrier telegraph system. 2,657,262, Oct. 27.

Proctor & Schwartz, Inc., assignee: *See*—
Hartenbach, Henry C., Jr.
Wilson, Jack P., and Scott.

Product Development Engineering Research and Promotion Corporation, assignee: *See*—
Smereck, Arthur.

Productive Inventions, Inc., assignee: *See*—
Krohm, Fred A.

Produx Corporation, assignee: *See*—
Watkins, Arthur S., and Warsack.

Puth, George J., Appleton, Wis. Variable throwing angle target projector. 2,656,831, Oct. 27.

Quarles, John P., Huntington, W. Va. Spray apparatus for railroad rights of way. 2,657,091, Oct. 27.

Quincy Compressor Company, assignee: *See*—
Pfeifer, George F.

Quist, Axel H. B., Norrkoping, Sweden. Collapsible wheeled vehicle. 2,657,069, Oct. 27.

Rack, Alois J., Millington, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electronic switch. 2,657,318, Oct. 27.

Radio Corporation Of America, assignee: *See*—
Bedford, Alda V.
Lazzery, Angelo G.
Lockhart, Robert K.
Parks, Nathan S.
Sperber, Edward J.

Radtke, Adelbert C., Oak Park, Ill., assignor to International Harvester Company. Expansible core for glass filament windings. 2,656,990, Oct. 27.

Ramos, Lawrence F., assignor to American Steel Foundries, Chicago, Ill. Snubbed spring group. 2,657,040, Oct. 27.

Rand, H. J., Washing Machine Corp., assignee: *See*—
Rand, Henry J.

Rand, Henry J., assignor to H. J. Rand Washing Machine Corp., Bratenahl, Ohio. Liquid extraction with vacuum and heat. 2,656,697, Oct. 27.

Rand, Henry J., Bratenahl, Ohio, assignor to H. J. Rand Washing Machine Corp., South Bend, Ind. Liquid extraction with vacuum and heat. 2,656,698, Oct. 27.

Randall, David L., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Chloromethyl derivatives of indigos. 2,657,214, Oct. 27.

Rasco, Malcolm P., Port Arthur, Tex. Sectional box wrench. 2,656,750, Oct. 27.

Rathman, Gilbert, Union, N. J., assignor, by mesne assignments, to Dresser Industries, Inc. Adjustable port arrangement for the high-pressure ends of fluid pumps and motors of the rotary screw type. 2,656,972, Oct. 27.

Rauland Corporation, The, assignee: *See*—
De Ano, John F.

Ravin, Harry, Burbank, Calif. Luminous indicia dial for telephones. 2,656,628, Oct. 27.

Ray, William A., North Hollywood, Calif. Steam generator. 2,656,821, Oct. 27.

Raymond, Charles W., Cambridge, N. Y. Portable artillery shield. 2,656,765, Oct. 27.

Rea, Wilton T., Manhasset, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Error-indicating code mechanism. 2,657,261, Oct. 27.

Reconstruction Finance Corporation, assignee: *See*—
Davis, Franklin O.

Reece, Theodore R., Calgary, Alberta, Canada. Dispenser for drinking straws. 2,657,109, Oct. 27.

Regents of The University of Michigan, assignee: *See*—
Blicke, Frederick F.

Reilly, Frank E., Winnetka, Ill., assignor to Electrographic Corporation, New York, N. Y. Making ready cylindrical plates. 2,656,790, Oct. 27.

Reinecke, Marshall C., Brooklyn, N. Y. Air and liquid mixing device. 2,657,024, Oct. 27.

Reinhold, Charles, assignor to Gallaz and Co., Geneva, Switzerland. Sewing machine. 2,656,805, Oct. 27.

Reinholz, William H., Altadena, assignor to W. J. Hubert, Los Angeles, Calif., doing business as Auto-Bye Company. Chair. 2,656,878, Oct. 27.

Reising, Francis M., Edinburg, Tex. Pipe laying apparatus. 2,656,800, Oct. 27.

Reising, Raymond G., Evansville, Ind. Utility sick-call case. 2,656,915, Oct. 27.

Reisinger, Arpad L.: *See*—
Plumeri, John, and Reisinger.

Reliance Electric & Engineering Company, The, assignee: *See*—
Sutherland, Charles R.

Remington Arms Company, Inc., assignee: *See*—
Howell, John D.

Rendel, George H., Mount Lebanon, Pa., assignor to United States Steel Corporation. Plating thickness regulator. 2,657,177, Oct. 27.

Research Corporation, assignee: *See*—
Smith, Chauncey W., and Arms.

Retallack, John B., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. System for automatically ticketing telephone calls. 2,657,268, Oct. 27.

Rettig, Charles E.: *See*—
Mulhern, Marvin J., and Rettig.

Retz, William B., Plainville, assignor to The New Britain Machine Company, New Britain, Conn. Stock feed mechanism. 2,656,859, Oct. 27.

Revere Sugar Refinery, assignee: *See*—
De Vries, Reinier P.

Reynolds, Delos J.: *See*—
Kincaid, Homer F., Graham, Reynolds, and Wharff.

Rich, John W., Los Angeles, Calif. Dispensing device. 2,656,953, Oct. 27.

Richa, John H., Kansas City, Mo. Lobster and crab catcher. 2,656,642, Oct. 27.

Richards, Kenneth D., Gardner, Mass. Shot patterning recoil compensator for firearms. 2,656,637, Oct. 27.

Richardson, Arthur D., assignor to Consolidated Engineering Corporation, Pasadena, Calif. Variable frequency response galvanometer. 2,657,358, Oct. 27.

Richon, Emile, Boulogne-Billancourt, France, assignor to International Standard Electric Corporation, New York, N. Y. Blind landing system. 2,657,381, Oct. 27.

Richter, Charles F., Sr., Victoria, Tex. Evaporation type vehicle cleaning and cooling unit. 2,657,026, Oct. 27.

Rigby, George W., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparation of hexamethylenediamines. 2,657,239, Oct. 27.

Rink, Harold L., Bridport, and R. F. Spence, Melplash, England. Electric lighter. 2,657,340, Oct. 27.

Riva, Charles W., deceased, Cranston, R. I.; L. E. Riva, administratrix of said C. W. Riva. Installing underground pipes or ducts. 2,656,683, Oct. 27.

Riva, Louise E., administratrix: *See*—
Riva, Charles W.

Robb, William C., Stretford, assignor to Enna Limited, Greenford, England. Walking aid. 2,656,874, Oct. 27.

Robbins, Leonard A., Salt Lake City, Utah. Photographic film developing composition containing beta, beta'-dichloroethyl ether. 2,657,138, Oct. 27.

Roberts, Roland R.: *See*—
Trosch, Alfred, and Roberts.

Robertshaw-Fulton Controls Company, assignee: *See*—
Caparone, Michael J.

Robertson, H. H., Company, assignee: *See*—
Wiesmann, Joseph W.

Robinson, Ewen D., and D. F. Mason, Mount Holly, N. C., assignors to Southern Dyestuff Corporation. Thionated indophenol products and processes. 2,657,112, Oct. 27.

Robinson, George B., Napa, Calif. Mechanical flexion and extension wrist. 2,656,546, Oct. 27.

Robinson, William W., Jr., Hollywood, Calif., assignor to Texaco Development Corporation, New York, N. Y. Treatment of industrial waters. 2,657,178, Oct. 27.

Robinson, William W., Jr., Hollywood, Calif., assignor to Texaco Development Corporation, New York, N. Y. Treatment of industrial waters. 2,657,179, Oct. 27.

Rodgers, Mansel B., Memphis, Tenn. Adjustable lever actuated tire bead breaking tool. 2,656,882, Oct. 27.

Rogers, Arthur O., Lewiston, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Resolution of lysine. 2,657,230, Oct. 27.

Rollins, Jennings F., Westfield, N. J., assignor to The Lummus Company, New York, N. Y. Catalytic reactor. 2,657,121, Oct. 27.

Romaniuk, Mirko, Cleveland, Ohio. Mechanism for turning the pages of a book. 2,656,629, Oct. 27.

Ross Gear & Tool Company, assignee: *See*—
Creson, William K., Newman, and Berghoff.

Rossire, Francis H. S., Leonia, assignor to Bendix Aviation Corporation, Teterboro, N. J. Altitude controller unit. 2,657,350, Oct. 27.

Rosso, Charles, Cimarron, N. Mex. Multiple scale electrical test instrument. 2,657,357, Oct. 27.

Rothrock, Henry S.: *See*—
Miller, Henry C., and Rothrock.

Rowell, William G., Quincy, Mass. Oil burner electrode gauge. 2,656,613, Oct. 27.

Rubens, Harry E., assignee: *See*—
Nahman, Gustave.

Rumsey, John C., Topeka, assignor of one-half to F. R. Vanderhoof, Lawrence, Kans. Nutcracker. 2,656,866, Oct. 27.

Runft, Arthur J., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Antenna coupling network. 2,657,310, Oct. 27.

Rupp, Virgil R.: *See*—
Gannon, Alfred C., Kilby, and Rupp.

Russel, Philip S., Detroit, Mich. Draft responsive safety control for oil burners. 2,656,884, Oct. 27.

Russell, Alexander H., assignor to The Burns & Russell Company of Baltimore City, Baltimore, Md. Coating ceramic and masonry products. 2,657,153, Oct. 27

Russell, Peter B.: *See*—
Hitchings, George H., Russell, and Falco.

Ruzicka, Leopold, and O. Jeger, Zurich, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. Preparation of compounds with semicyclic double bond. 2,657,223, Oct. 27.

Ryan Aeronautical Co., The, assignee: *See*—
Hubbell, Wilson G.

SKF Industries, Inc., assignee: *See*—
Lovell, Louis R., and West.

Sabin, Luverne E.: *See*—
Sabin, Walter E. and L. E.

Sabin, Walter E. and L. E., Dolliver, Iowa. Fence post driver and puller. 2,657,010, Oct. 27.

Sands, Hillard J.: *See*—
Blanke, Nathan E., and Sands.

Saranga, Cesare, New Rochelle, N. Y. Radio and television antenna. 2,657,312, Oct. 27.

Sativa Corporation, assignee: *See*—
Burkardt, Anton F.

Sattler, Beatrice, administratrix: *See*—
Sattler, Gustav, Jr.

Sattler, Gustav, Jr., deceased, New York, N. Y. (by B. Sattler, administratrix), and B. Sattler, assignors, by mesne assignments, to The Carlton Corporation, New York, N. Y. Therapeutic solution of calcium lactate and calcium glycerophosphate. 2,657,172, Oct. 27.

Saul, August A., Ross Township, Allegheny County, assignor to Miller Printing Machinery Co., Pittsburgh, Pa. Material handling apparatus. 2,657,048, Oct. 27.

Saunders, Alfred P.: *See*—
Barsby, Edward S., and Saunders.

Saxer, August, Thalwil, Switzerland. Die adjusting mechanism. 2,656,744, Oct. 27.

Scanlan, Joseph P.: *See*—
Sindeband, Seymour J., Stern, and Scanlan.
Stern, George, Sindeband, and Scanlan.

Scheele, Charles C., Syracuse, N. Y. Branch hose connector. 2,656,853, Oct. 27.

Schenau, Bernardus W. V.: *See*—
Haantjes, Johan, Valeton, and Schenau.

Schenley Industries, Inc., assignee: *See*—
Klarer, Joseph, and Behnisch.
Klarer, Joseph, and Timmler.
Schmidt, Hans, Mietzsch, and Behnisch.

Schepp, William J., East Paterson, N. J., assignor to D. G. Kennedy, Rochester, J. L. Kennedy, Elmira, and S. Farnham, Brighton, N. Y. Doll or the like. 2,656,647, Oct. 27.

Schinke, Ralph: *See*—
Hintz, Otto E., and Schinke.

Schlieder, Leland F., Manchester, Vt. Chalk holder or the like. 2,656,605, Oct. 27.

Schmidt, Elmer V.: *See*—
Mann, William H., and Schmidt.

Schmidt, Hans, Wuppertal-Vohwinkel, and F. Mietzsch, and R. Behnisch, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y. Aryloxybenzaldehydethiosemicarbazones. 2,657,235, Oct. 27.

Schmitt, William C., Hackensack, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Jacket for water-cooled tubes. 2,657,019, Oct. 27.

Schneider, Helmuth G., Westfield, and H. G. Goering, Elizabeth, N. J., assignors to Standard Oil Development Company. Selective polymerization of isobutylene. 2,657,246, Oct. 27.

Schniepp, Lester E.: *See*—
Alexander, Kliem, and Schniepp.

Schoerner, Rudolph T., Cranston, assignor to Taco Heaters, Incorporated, Providence, R. I. Heater fitting and connection. 2,656,981, Oct. 27.

Schroeder, Herman E.: *See*—
Foster, Robert E., and Schroeder.

Schroeder, Simon E., Oshkosh, assignor to American Partition Corporation, Milwaukee, Wis. Automatic partition strip feeding mechanism. 2,656,770, Oct. 27.

Schumacher, Wilhelm: *See*—
Heyna, Johannes, and Schumacher.

Schwabe, Kurt, Le Locle, Switzerland. Shuttle holding means. 2,656,858, Oct. 27.

Schwartz, William H., assignor to Lester Engineering Company, Cleveland, Ohio. Die casting machine. 2,656,576, Oct. 27.

Schwester, Daniel P., East Orange, and J. J. Phillips, West Orange, assignors, by mesne assignments, to Titeflex, Inc., Newark, N. J. Metallic bellows. 2,657,074, Oct. 27.

Schwester, Daniel P., East Orange, and J. J. Phillips, West Orange, assignors, by mesne assignments, to Titeflex, Inc., Newark, N. J. Metallic bellows. 2,657,075, Oct. 27.

Scofield, Emory J.: *See*—
Johnson, Edwin L., and Scofield.

Scott, James G., Washington, D. C. Apparatus for and the method of control and utilization of Dry Ice. 2,656,687, Oct. 27.

Scott, William H.: *See*—
Wilson, Jack P., and Scott.

Scruggs, Arthur W., Bloomington, Calif. Machine for reproducing patterns or images. 2,656,604, Oct. 27.

Seaboard Container Corporation, assignee: *See*—
Apgar, Charles W.

Seaboard Machinery Corporation, assignee: *See*—
Jernstrom, Karl W.

Sears, Robert L.: *See*—
Craig, Adrian W., Sears, and Hubbard.

Segal, Samuel, New York, N. Y. Safety razor. 2,656,599, Oct. 27.

Selig, Pearl, Chicago, Ill. Magnetic lot selecting device. 2,657,059, Oct. 27.

Seyferth, Harold N., East Detroit, assignor to Ex-Cell-O Corporation, Detroit, Mich. Abrading machine. 2,656,651, Oct. 27.

Sharples Chemicals Inc., assignee: *See*—
Davidson, John B.

Shell Development Company, assignee: *See*—
Vaughan, William E., and Harman.

Shelley, Thomas H., Spotswood, N. J., assignor to The B. F. Goodrich Company, New York, N. Y. Preparation of novel N-(2-carboxyalkyl) succinimides. 2,657,215, Oct. 27.

Shortland, Arthur, assignor to Mellor Bromley & Company Limited, Leicester, England. Knitting machine. 2,656,691, Oct. 27.

Shreve, Frances E., assignee: *See*—
Geel, John J.

Siggia, Sidney, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Making of butane-1,2,4-triol. 2,657,242, Oct. 27.

Siggson, William, Philadelphia, Pa. Carpenter's layout tool. 2,656,609, Oct. 27.

Silver, Walter H., assignor to Deere & Company, Moline, Ill. Cane trash mover. 2,656,664, Oct. 27.

Simi, Hendrick E., assignor to Kenworth Motor Truck Corporation, Seattle, Wash. Ventilation of passenger compartment of automotive busses. 2,656,779, Oct. 27.

Simmons Company, assignee: *See*—
Woller, Edward E.

Simpelaar, Clyde S., assignor to Modine Manufacturing Company, Racine, Wis. Heat exchanger. 2,657,018, Oct. 27.

Sindeband, Seymour J.: *See*—
Stern, George, Sindeband, and Scanlan.

Sindeband, Seymour J., Chappaqua, G. Stern, Mamaroneck, and J. P. Scanlan, assignors to American Electro Metal Corporation, Yonkers, N. Y. Production of chromium-alloyed corrosion-resistant metal powders and related products. 2,657,127, Oct. 27.

Singer Manufacturing Company, The, assignee: *See*—
Hacklander, Hans.

Sink, Robert L., Altadena, assignor to Consolidated Engineering Corporation, Pasadena, Calif. Bridge circuit. 2,657,352, Oct. 27.

Skoda Works, National Corporation, The, assignee: *See*—
Fellmann, Rudolf.

Skolnikoff, Eugene B., Wembley, England, assignor to General Electric Company. Hybrid circuits. 2,657,280, Oct. 27.

Slack, Newman F., Philadelphia, Pa. Watchmaker's tool. 2,656,741, Oct. 27.

Sloan, Harry E., assignor to The Cushman Chuck Company, Hartford, Conn. Chuck. 2,657,068, Oct. 27.

Slonneger, John C., assignor to The Continental Supply Company Dallas, Tex. Means for controlling hoists and winches. 2,657,011, Oct. 27.

Smack, John C., White Plains, N. Y., assignor to Sperry Products, Inc., Danbury, Conn. Ultrasonic beam shaping device. 2,657,319, Oct. 27.

Smallwood, John L., Levelland, Tex. Rock catcher. 2,656,572, Oct. 27.

Smereck, Arthur, assignor to Product Development Engineering Research and Promotion Corporation, Detroit, Mich. Ash receptacle for vehicles. 2,657,002, Oct. 27.

Smith, A. O., Corporation, assignee: *See*—
Andrus, Orrin E.

Smith, A. O., Corporation, assignee: *See*—
Leupold, Glenn W.

Smith, Chauncey W., and M. F. Arms, Lincoln, Nebr., assignors, by mesne assignments, to Research Corporation, New York, N. Y. Seed harvester having flexible stripping means. 2,656,667, Oct. 27.

Smith, Edward P., assignor to The Ohio Brass Company, Mansfield, Ohio. Feeder tap. 2,657,290, Oct. 27.

Smith, Frank R., Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe bottom heater with links for adjusting heating-grid supports. 2,657,029, Oct. 27.

Smith, Franklin S., Hamden, Conn. Centrifugal milling and insect destroying machine with rotary impeller and annular target. 2,656,988, Oct. 27.

Smith, Lester C., West Hartford, assignor to Spencer Turbine Company, Hartford, Conn. Dual purpose vacuum cleaner nozzle. 2,656,560, Oct. 27.

Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Centrifugally operated valve for rotatable receptacles. 2,656,700, Oct. 27.

Smithson, Charles B., Jr., Clay Township, St. Joseph County, Ind. Power-driven toothbrush. 2,657,321, Oct. 27.

Smits, Wytze B., Voorburg, assignor to Smitsvonk N. V., Rijewijk, Netherlands. Bushing for spark plugs. 2,657,248, Oct. 27.

Smitsvonk N. V., assignee: *See*—
Smits, Wytze B.

Snyder, Edward G.: *See*—
Gray, Franklin D., and Snyder.

Societe de la Viscose Suisse, assignee: *See*—
Zingg, Emil F.

Societe d'Etudes de Machines Speciaels, assignee: *See*—
Chambon, Jean L.

Société: Pompes Noel, Liverdun (Meurthe-et-Moselle), assignee: *See*—
Cavallier, Jean A.

Soffel, Robert O.: *See*—
Hoth, Daniel F., and Soffel.

Sonnett, Frederick W., Winnipeg, Manitoba, Canada. Mechanical golf practice apparatus. 2,656,720, Oct. 27.

Sorteberg, Johannes Bath, Pa. Ball confining club for croquet. 2,657,056, Oct. 27.

Southern Dyestuff Corporation, assignee: *See*—
Robinson, Ewen D., and Mason.

Southern Production Company, Inc., assignee: *See*—
Isham, Robert M.

Spargo, John, assignee: *See*—
Mader, Emil A.

Spence, Reginald F.: *See*—
Rink, Harold L., and Spence.

Spencer Turbine Company, assignee: *See*—
Smith, Lester C.

Sperber, Edward J., Philadelphia, Pa., assignor to Radio Corporation of America. Record changer. 2,657,061, Oct. 27.

Sperberg, Lawrence R., Bartlesville, Okla., assignor to Phillips Petroleum Company. Treatment for reducing the pH of furnace blacks. 2,657,117, Oct. 27.

Sperry Corporation, The, assignee: *See*—
Braddon, Frederick D.
Henning, Rudolf E.
Wathen, Robert L.

Sperry Products, Inc., assignee: *See*—
Smack, John C.

Spiess, Newton E., Jr., Oakdale, E. M. Gropen, East Northport, and K. R. Weaver, Bellport, assignors to National Dairy Research Laboratories, Inc., Oakdale, N. Y. Beater mechanism for softening ice cream. 2,657,022, Oct. 27.

Spieth, Benjamin, assignor to Modine Manufacturing Company, Racine, Wis. Convection heater. 2,656,780, Oct. 27.

Spieth, Benjamin, assignor to Modine Manufacturing Company, Racine, Wis. Adjustable outlet convector enclosure. 2,656,781, Oct. 27.

Split Ballbearing Corporation, assignee: *See*—
Stearns, Frank H.

Sproule, Lorne W., and J. S. Gray, Sarnia, Ontario, Canada, assignors to Standard Oil Development Company. Manufacture of antifriction bearing greases. 2,657,180, Oct. 27.

Squire, George W., assignee: *See*—
Vargo, John J.

Standard Oil Development Company, assignee: *See*—
Banes, Fred W., Gessler, and Fischer.
Giraitis, Albert B., and Fuqua.
Kestner, William N., Kohfeldt, and Barillier.
Mason, Ralph B.
Schneider, Helmuth G., and Goering.
Sproule, Lorne W., and Gray.
Young, David W., and Newberg.

Standen, John H.: *See*—
Stewart, William D., and Standen.

Stanford Roberts Manufacturing Company, The, assignee: *See*—
Ovshinsky, Stanford.

Starr, Arthur T., and H. Grayson, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Electric pulse modulation system of communication. 2,657,269, Oct. 27.

Stauffer, Andrew D., Leipsic, Ohio. Tractor mounted sweep rake. 2,656,663, Oct. 27.

Stearns, Frank H., Meridan, assignor to Split Ballbearing Corporation, Lebanon, N. H. Bearing construction. 2,657,105, Oct. 27.

Stegeman, Raymond F. E., Greece, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Spectacle case. 2,656,912, Oct. 27.

Stem, Donald E., San Francisco, Calif. Magnetic plate structure. 2,657,342, Oct. 27.

Stephens, Clifford A.: *See*—
Johnson, Lloyd A., Mosher, and Stephens.

Stephens, Joseph F., Kansas City, Mo., assignor to Minnesota Mining & Manufacturing Company. Process and apparatus for producing glass fibrous tubes. 2,656,873, Oct. 27.

Stephenson, Verne L., Goshen, Ind. Robe with fasteners. 2,656,540, Oct. 27.

Sterling Drug Inc., assignee: *See*—
Clinton, Raymond O.
Clinton, Raymond O., and Laskowski.
Feldkamp, Rolland F.

Stern, George: *See*—
Sindeband, Seymour J., Stern, and Scanlan.

Stern, George, Mamaroneck, S. J. Sindeband, Chappaqua, and J. P. Scanlan, assignors to American Electro Metal Corporation, Yonkers, N. Y. Chromium-alloyed corrosion-resistant metal powders and related products. 2,656,595, Oct. 27.

Stern, George, Mamaroneck, S. J. Sindeband, Chappaqua, and J. P. Scanlan, assignors to American Electro Metal Corporation, Yonkers, N. Y. Silicon-alloyed corrosion-resistant metal powders and related products and processes. 2,657,128, Oct. 27.

Stern, George, Mamaroneck, S. J. Sindeband, Chappaqua, and J. P. Scanlan, assignors to American Electro Metal Corporation, Yonkers, N. Y. Aluminum-alloyed corrosion-resistant metal powders and related products and processes. 2,657,129, Oct. 27.

Stern, Joshua, Mount Rainier, Md. Racking mechanism for microphotometers. 2,656,757, Oct. 27.

Stevens, Charles H., Springfield, and K. W. Maier, Feeding Hills, Mass., assignors to the United States of America as represented by the Secretary of the Army. Cartridge retracting device. 2,656,635, Oct. 27.

Stevenson, Ralph W., assignor, by mesne assignments, to Metal Carrier Corporation, Grand Rapids, Mich. Bottle carton carrier and unit for use therein. 2,656,947, Oct. 27.

Stewart-Warner Corporation, assignee: *See*—
Allen, Arthur C.

Stewart, William D., Brecksville, and J. H. Standen, Cleveland Heights, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Polyhalocyclohexenone compositions adapted for herbicidal and other use. 2,657,126, Oct. 27.

Stich, Eugen G., Heidelberg, Germany. Continuous manufacture of yeast. 2,657,174, Oct. 27.

Stone Crest Studios, Inc., assignee: *See*—
Martens, Robert E., and Whinnery.

Stonecipher, William D., Newark, assignor to Hercules Powder Company, Wilmington, Del. Chlorinated terpene alcohols, esters, and ethers as insecticides. 2,657,166, Oct. 27.

Stoops, William N.: *See*—
Denison, Walter A., and Stoops.

Strahman, Dietrick, Livingston, N. J., assignor to Klingerit, Inc., New York, N. Y. Spray nozzle. 2,657,098, Oct. 27.

Stromberg-Carlson Company, assignee: *See*—
Eliot, Warner A., and Erikson.
Pharis, William W.

Strong, Frank M.: *See*—
Keitt, George W., Leben, and Strong.

Struckmann, Holger, Bethlehem, Pa. Kiln. 2,657,033, Oct. 27.

Stuetzer, Otmar M., Springfield, Ohio. Transconductor employing line type field controlled semiconductor. 2,657,345, Oct. 27.

Suen, Tzeng J.: *See*—
Daniel, John H., Landes, and Suen.

Sullivan, Earle C., Bridgeport, Conn., assignor to General Electric Company. Time control means for electrically heated cooking receptacle. 2,657,300, Oct. 27.

Sumners, Sumner J., and U. W. Fraser, Los Angeles, Calif. Automatic vehicle parking system. 2,656,940, Oct. 27.

Sutherland, Charles R., Cleveland, Ohio., assignor to The Reliance Electric & Engineering Company. Electric motor for driving a device within a compartment. 2,656,973, Oct. 27.

Sweeny, Charles P.: *See*—
Beaver, Richard W., and Sweeny.

Sweet, Robert L., Kansas City, Mo. Window lock. 2,657,086, Oct. 27.

Swett, Robert W., Flossmoor, Ill., assignor to American Tag Company. Machine for imprinting and heat sealing labels. 2,656,944, Oct. 27.

Sylvania Electric Products Inc., assignee: *See*—
Homer, Horace H., and Lowry.

Symington-Gould Corporation, The, assignee: *See*—
Couch, Glenn F.

Tack, Carl E., assignor to American Steel Foundries, Chicago, Ill. Rotor brake. 2,656,900, Oct. 27.

Taco Heaters, Incorporated, assignee: *See*—
Schoerner, Rudolph T.

Tallis, Charles E., Birmingham, assignor to Birmingham Tool & Gauge Company Limited, Handsworth, England. Automatic feed mechanism for power presses and like machines. 2,657,046, Oct. 27.

Taylor, Earl T., Beloit, Wis. Welted moccasin. 2,656,620, Oct. 27.

Taylor, Jesse B., Greeley, Colo. Cheese slicer. 2,656,602, Oct. 27.

Telegraph Construction & Maintenance Company, Limited, assignee: *See*—
Mildner, Raymond C., and Lovelace.

Television Associates, Inc., assignee: *See*—
Eddy, William C.

Te Winkel, Jan, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Negative feedback amplifier circuit. 2,657,282, Oct. 27.

Texaco Development Corporation, assignee: *See*—
Robinson, William W., Jr.

Texas Company, The, assignee: *See*—
Gaucher, Leon P.

Texas Gulf Sulphur Company, assignee: *See*—
Patton, Richard A.

Textile Machine Works, assignee: *See*—
Newton, Charles G.

Thayer, Chester L., Memphis, Tenn. Miter box for portable power saws. 2,656,860, Oct. 27.

Thomas & Betts Co., The, assignee: *See*—
Bergan, Martin D.

Thomas, William, Westwood, Calif. Supporting means for a portable sluice. 2,656,924, Oct. 27.

Thompson Products, Inc., assignee: *See*—
Noon, T Cyril, and Bayer.

Thompson, Thomas A., Toronto, Ohio, assignor to National Steel Corporation. Oxygen lancing of furnace flues and checkers. 2,657,034, Oct. 27.

Thurstone, Louis L.: *See*—
Thurstone, Thelma G. and L. L.

Thurstone, Thelma G. and L. L., Chicago, Ill. Objective test device with universal scoring mask. 2,656,619, Oct. 27.

Tibenham, Frederick J., Castle Bromwich, assignor to Dunlop Rubber Company, Limited, London, England. Production of bonded rubber articles. 2,657,162, Oct. 27.

Tidbury, George E., assignee: *See*—
Drain, Percy J.

Tidd, Elbert D.: *See*—
Cataldo, John B., and Tidd.

Tidwell, Hubert, Wellington, Utah. Orchard ladder with adjustable platform and fruit receiving means. 2,656,968, Oct. 27.

Tilghman, Charles F., Berkeley, Calif. Type-positioning block assembly. 2,656,791, Oct. 27.

Tillou, Richard G.: *See*—
Danielson, Vernon S., and Tillou.

Tillou, Richard G., Lombard, assignor to W. H. Miner, Inc., Chicago, Ill. Shock absorbing mechanism for railway draft riggings. 2,656,937, Oct. 27.

Timmler, Helmut: *See*—
Klarer, Joseph, and Timmler.

Timmons, George A., Hudson, assignor to The House of Timmons Inc., Twinsburg, Ohio. Tool kit. 2,656,869, Oct. 27.

Tissol, Carolyn E.: *See*—
Goodhue, Lyle D., and Tissol.

Titeflex, Inc., assignee: *See*—
Schwester, Daniel P., and Phillips.

Toelke, Lester W., Houston, Tex. Apparatus for plugging wells. 2,656,891, Oct. 27.

Toland, William G., Jr., Richmond, assignor to California Research Corporation, San Francisco, Calif. Linear polymers from stilbene dicarboxylic acid. 2,657,195, Oct. 27.

Toledo Scale Company, assignee: *See*—
Koch, William F.

Tolman, Charles P., Kew Gardens, N. Y. Ocular tension indicator. 2,656,715, Oct. 27.

Tomenceak, Arthur A.: *See*—
Bullard, Edward P., and Tomenceak.

Tomlin, Robert L., Savannah, Ga. Pulpwood saw grinder. 2,656,738, Oct. 27.

Tomlinson, Ben L., St. Louis Park, and D. E. Carlson, Litchfield, assignors to Arid Aire Manufacturing Company, St. Louis Park, Minn. Grain drier. 2,657,031, Oct. 27.

Tomlinson, Ben L., assignor to Arid-Aire Manufacturing Company, Minneapolis, Minn. Grain drier. 2,657,032, Oct. 27.

Tonks, Clarence R., Miramar, Wellington, New Zealand. Stand for pressing irons. 2,657,000, Oct. 27.

Trail Lock Corporation, assignee: *See*—
Lucas, Guy L., Edwards, and Chaffin.

Trane Company, The, assignee: *See*—
Labus, Otto A.

Treer, Ross B., Lakewood, assignor to The Warner & Swasey Company, Cleveland, Ohio. Spindle positioner for machine tools. 2,656,754, Oct. 27.

Trosch, Alfred, Brighton, and R. R. Roberts, Irondequoit, assignors to Consolidated Machine Tool Corporation, Rochester, N. Y. Car wheel borer. 2,657,063, Oct. 27.

Truffaut, Georges, assignee: *See*—
Hampe, Pierre.

Tschudi, Erwin W., Baldwin, assignor to Aeroflex Laboratories, Inc., Long Island City, N. Y. Shock testing machine. 2,656,711, Oct. 27.

Tworek, Thaddeus J., Omaha, Nebr. Readily applicable and removable garment button. 2,656,578, Oct. 27.

Ullberg, Frederick G. W., Jr., assignor to T. J. Cope, Inc., Philadelphia, Pa. Supporting trough for cables. 2,656,998, Oct. 27.

Ullberg, Frederick G. W., Jr., assignor to T. J. Cope, Inc., Philadelphia, Pa. Angle connector for trough systems. 2,656,999, Oct. 27.

Unger, Richard A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe support. 2,656,556, Oct. 27.

Union Carbide and Carbon Corporation, assignee: *See*—
Conant, Louis A., and Gillies.
Denison, Walter A., and Stoops.
Wagner, George H.

Union Machine Company, assignee: *See*—
O'Neill, Paul A.

United Aircraft Corporation, assignee: *See*—
Coar, Richard J.

United Aircraft Products, Inc., assignee: *See*—
Booth, Harry T.

United-Carr Fastener Corporation, assignee: *See*—
Carbary, Edward M.

United Shoe Machinery Corporation, assignee: *See*—
Butler, Ernest L., and Holmes.
Eastman, Fred C.
Smith, Frank R.
Unger, Richard A.
Walsh, John E.
Woodman, Charles K.

United States Hoffman Machinery Corporation, assignee: *See*—
Clarke, Clarence M.

United States Rubber Company, assignee: *See*—
Mankowich, Ivan.

United States Steel Corporation, assignee: *See*—
Hugo, Victor J., Miller, and Ottinger.
Rendel, George H.

Universal Oil Products Company, assignee: *See*—
Bloch, Herman S., and Mammen.
Covert, Benjamin L., and Dahlquist.

Upson Company, The, assignee: *See*—
Ericks, Walter P.

Valeton, Josue J. P.: *See*—
Haantjes, Johan, Valeton, and Schenau.

Vanderhoof, Ferne R., assignee: *See*—
Rumsey, John C.

Vanderlippe, Richard A.: *See*—
Ostendorf, Bernard, Jr., and Vanderlippe.

Van der Ziel, Aldert: *See*—
Knol, Kornelis S., and van der Ziel.

Van Haandel, Adrianus, deceased, by J. H. van Haandel, legal representative, assignor to Nedschroef Octrooi Maatschappij N. V., Helmond, Netherlands. Safety mechanism for uncoupling a shaft from the driving member of a machine. 2,656,906, Oct. 27.

Van Haandel, Johannes H., legal representative: *See*—
Van Haandel, Adrianus.

Van Horn, John C., Midland, E. O. Ohlmann, Bay City, J. D. Klinger, Detroit, and J. H. Wright, Berkley, said Van Horn and said Ohlmann assignors to The Dow Chemical Company, Midland, Mich. Hydraulic fluid containing poly-(oxyethyleneoxy-1,2 propylene)ethers of glycerol. 2,657,181, Oct. 27.

Vanity Fair Mills, Inc., assignee: *See*—
Bellini, Eugene.

Van Nest, Francis H., Marblehead, Mass., assignor to General Electric Company. Valve with stem sealing arrangement. 2,657,005, Oct. 27.

Van Sickle, Roswell C., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Testing arrangement for circuit interrupting devices. 2,657,354, Oct. 27.

Van Valkenburgh, Edward A., Greene, N. Y. Composition for vulcanizing rubber. 2,657,147, Oct. 27.

Vargo, John J., assignor of one-third to S. La Monica, Oneonta, and one-third to G. W. Squire, Cooperstown, N. Y. Bowling ball cleaner. 2,656,557, Oct. 27.

Varner, Odette M., Vicksburg, Miss. Making relief pictures from plane pictures. 2,656,634, Oct. 27.

Vaughan, William E., Berkeley, and D. Harman, Menlo Park, assignors to Shell Development Company, San Francisco, Calif. Catalyzed reactions between hydrogen sulfide or dimercaptans and dialkenyl ethers or polyalkenyl amines. 2,657,238, Oct. 27.

Veeder-Root, Inc., assignee: *See*—
Blackman, Fred T.

Ventura Tool Company, assignee: *See*—
Williams, William J., and Hanes.

Venus, Willibald A., Munich, assignor to Hahn & Kolb, Stuttgart-N, Germany. Heating and injection cylinder in injection molding machine for thermoplastic materials. 2,656,567, Oct. 27.

Verret, Emile J., Chicago, Ill. Rotatable top combination woodworking machine. 2,656,861, Oct. 27.

Verwaltungsgesellschaft der Werkzeugmaschinenfabrik Oerlikon, assignee: *See*—
Aschwanden, Paul.

Victor Industries Corporation, assignee: *See*—
Drew, Harry A.

Viera Rios, Lionel I., and L. A. J. M. Frávega, Montevideo, Uruguay. Apparatus for dry filling concrete piles. 2,656,684, Oct. 27.

Virgil, John R., Downers Grove, Ill. Gasket seal for pipe joints. 2,657,078, Oct. 27.

Vittum, Paul W.: *See*—
Graham, Bruce, Vittum, and Weissberger.

Vojnovich, Charles: *See*—
Pfeifer, Virgil F., Nelson, Vojnovich, and Lockwood.

Vulcan Research Corporation, assignee: *See*—
Westling, Carl J.

Waechter, Harry J., Mount Healthy, assignor to P. Beninghofen and F. B. Diesbach, Hamilton, Ohio, trustees. Combined guide and table structure. 2,657,051, Oct. 27.

Wagner Electric Corporation, assignee: *See*—
Brunner, Albert.

Wagner, George H., Kenmore, N. Y., assignor to Union Carbide and Carbon Corporation. Chlorosilanes. 2,657,114, Oct. 27.

Wallace, Robert L., Jr., Plainfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Four-electrode transistor modulator. 2,657,360, Oct. 27.

Walsh, John E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Counter construction and method. 2,656,622, Oct. 27.

Walton, Warren L., Schenectady, N. Y., assignor to Hercules Powder Company, Wilmington, Del. Chlorinated terpene derivative. 2,657,167, Oct. 27.

Walz, Claude W., Rock Island, and H. F. Clausen, assignors to Deere & Company, Moline, Ill. Beet harvester. 2,656,661, Oct. 27.

Ward Leonard Electric Company, assignee: *See*—
Klus, Walter C.

Warner Company, assignee: *See*—
Bigsby, Vernon L., and Petraline.

Warner & Swasey Company, The, assignee: *See*—
Treer, Ross B.

Warsack, George L.: *See*—
Watkins, Arthur S., and Warsack.

Wathen, Robert L., Garden City, assignor to The Sperry Corporation, Great Neck, N. Y. Traveling wave tube. 2,657,329, Oct. 27.

Watkins, Arthur S., and G. L. Warsack, assignors to Produx Corporation, Port Clinton, Ohio. Injection molding apparatus. 2,656,568, Oct. 27.

Watkins, Arthur S., and G. L. Warsack, assignors to Produx Corporation, Port Clinton, Ohio. Injection molding apparatus. 2,656,569, Oct. 27.

Weaver, Ira A., and C. H. Phelps, Springfield, Ill., assignors, by mesne assignments, to Gisholt Machine Company, Madison, Wis. Means for adjustment of balancing machines. 2,656,710, Oct. 27.

Weaver, Kenneth R.: *See*—
Spiess, Newton E., Jr., Gropen, and Weaver.

Webber, John J., Newark, Ohio. Interval timer. 2,656,672, Oct. 27.

Webber, Louis Q., assignor to Martin-Decker Corporation, Long Beach, Calif. Traveling line load indicator. 2,656,719, Oct. 27.

Weber, Louis J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Pebble feeder. 2,656,941, Oct. 27.

Webster, Vey V., Newhall, assignor of twenty-five per cent to Bonelli Cattle Company, Saugus, Calif. Sub holder. 2,657,014, Oct. 27.

Weingarten, Joseph, Boston, Mass. Electron tube marking. 2,657,133, Oct. 27.

Weir, G. & J., Limited, assignee: *See*—
Hillier, Harold.

Weissberger, Arnold: *See*—
Graham, Bruce, Vittum, and Weissberger.

Weller, Leo G., Catasauqua, Pa., assignor to Fuller Company. Self-unloading bin. 2,657,100, Oct. 27.

Wendeborn, Helmut, Seulberg, near Frankfurt am Main, assignor to Metallgesellschaft Aktiengesellschaft, Frankfurt am Main, Germany. Treatment of solid substances at higher temperatures under action of gases. 2,657,030, Oct. 27.

Werner, Frank R., assignor to The National Cash Register Company, Dayton, Ohio. Adjustable printing hammer. 2,656,788, Oct. 27.

West, James E., Jr.: *See*—
Lovell, Louis R., and West.

West, John W., Allentown, Pa., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Tunable magnetron. 2,657,334, Oct. 27.

Westby, Henry A., Minneapolis, Minn., assignor to General Mills, Inc. Pressure cooker valve. 2,656,852, Oct. 27.

Western Condensing Company, assignee: *See*—
Peebles, David D., and Girvin.

Western Electric Company, Incorporated, assignee: *See*—
Balde, John W., Bregar, and Chapman.
Berggren, George E.

Western Gear Works, assignee: *See*—
Langdon, Robert S.

Western Supplies Company, assignee: *See*—
Altvater, Adolf H.

Western Union Telegraph Company, The, assignee: *See*—
Hackenberg, John H.

Westinghouse Electric Corporation, assignee: *See*—
Kincaid, Homer F., Graham, Reynolds, and Wharff.
Van Sickle, Roswell C.
Wilson, Earl D.

Westling, Carl J., West Orange, N. J., assignor to Vulcan Research Corporation, Pittsburgh, Pa. Forming bolt-retaining rings for flanged pipe coupling assemblies. 2,656,594, Oct. 27.

Wharff, Edward M.: *See*—
Kincaid, Homer F., Graham, Reynolds, and Wharff.

Wheatley, Edward W.: *See*—
Fisher, James W., Bates, and Wheatley.

Whinnery, Lewis A.: *See*—
Martens, Robert E., and Whinnery.

Whitlock, Charles P., Medford, Oreg. Garden hose stake. 2,657,012, Oct. 27.

Whitman, Nelson, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making tetraethyl lead. 2,657,225, Oct. 27.

Wiancko, Thomas H., Altadena, Calif. Bridge circuit. 2,657,353, Oct. 27.

Wiberg, Oscar A., Finspong, Sweden. Elastic connecting device for elastic fluid machines. 2,657,084, Oct. 27.

Wideman, Ewell F., Wetumpka, Ala. Animated jumping toy. 2,656,646, Oct. 27.

Widmer, Willy, Bottmingen, and A. Fasciati, assignor to Ciba Limited, Basel, Switzerland. Monoazo dyestuffs of the pyrazolone series. 2,657,203, Oct. 27.

Wiebalck, Klaus, Munich, Germany. Photographic developing apparatus. 2,656,773, Oct. 27.

Wiesmann, Joseph W., assignor to H. H. Robertson Company, Pittsburgh, Pa. Flush type outlet fixture. 2,657,250, Oct. 27.

Wildhaber, Ernest, Brighton, assignor to The Gleason Works, Rochester, N. Y. Intermittent mechanical motion. 2,656,731, Oct. 27.

Wildt and Company Limited, assignee: *See*—
Barsby, Edward S., and Saunders.

Wilhelm, Walter F., and M. De Haas, Dayton, Ohio, assignors to The Monarch Machine Tool Company. Automatic chuck. 2,657,065, Oct. 27.

Williams, Albert J., Jr., assignor to Leeds and Northrup Company, Philadelphia, Pa. High-speed standardization of potentiometers. 2,657,349, Oct. 27.

Williams, Frederic C., Great Malvern, assignor to Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England. Radio receiving circuit arrangement. 2,657,306, Oct. 27.

Williams, J. H., & Co., assignee: *See*—
Johnson, Walter J., and Ertell.

Williams, Roland, San Francisco, Calif. Steam generating system for vehicles. 2,656,822, Oct. 27.

Williams, Rollo G., Great Neck, N. Y., assignor, by mesne assignments, to Duro-Test Corporation, North Bergen, N. J. Lighting control system. 2,657,338, Oct. 27.

Williams, William J., Odessa, Tex., and J. W. E. Hanes, assignors to Ventura Tool Company, Ventura, Calif. Protective collar for drill pipes. 2,657,101, Oct. 27.

Williamson, Joe, Jr., Daytona Beach, Fla. Pneumatic pumping equipment. 2,656,794, Oct. 27.

Wilson, David E., Arlington, Va. Retaining device for slide fasteners. 2,656,579, Oct. 27.

Wilson, Earl D., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Cooling of rectifier stack by thermal conduction. 2,657,343, Oct. 27.

Wilson, Jack P., Penn Wynne, and W. H. Scott, Oreland, assignors to Proctor & Schwartz, Inc., Philadelphia, Pa. Rug feeding apparatus. 2,657,045, Oct. 27.

Wilson-Jones Company, assignee: *See*—
Bunch, Peter, Mittomme, and Jennings.

Windemuth, Erwin: *See*—
Gensel, Herbert, and Windemuth.

Wingerter, Robert B.: *See*—
Drapeau, Harold B., and Wingerter.

Winikoff, Abraham, New York, N. Y. Folding bed and seat combination. 2,656,547, Oct. 27.

Wintringham, William T., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Color television system. 2,657,234, Oct. 27.

Wintringham, William T., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Color television system. 2,657,255, Oct. 27.

Wintringham, William T., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Color television system. 2,657,256, Oct. 27.

Wire-O Corporation, assignee: *See*—
Cruzan, Charles C.

Wisconsin Alumni Research Foundation, assignee: *See*—
Daniels, Farrington.
Keitt, George W., Leben, and Strong.

Wiseman, Adolph D., San Francisco, Calif. Dental brush in elastic base for handpiece. 2,656,559, Oct. 27.

Wishnia, Irving, New York, N. Y. Lady's handbag. 2,656,870, Oct. 27.

Wittry, David B., Green Bay, Wis. Walking submersible toy. 2,656,644, Oct. 27.

Witzel, Homer D., assignor to Harris Manufacturing Company, Stockton, Calif. Header mount for sidehill harvesters. 2,656,668, Oct. 27.

Wold, Russell L., Lihue, Kauai, Hawaii. Irrigation flume outlet. 2,656,682, Oct. 27.

Wolf, Calvin N.: *See*—
Ligett, Waldo B., Closson, and Wolf.

Wolf, Edward, Cuyahoga Falls, assignor to Goodyear Aircraft Corporation, Akron, Ohio. Multiposition caster lock for airplane cross-wind main landing wheels. 2,656,995, Oct. 27.

Wolf, Milton: *See*—
Frisch, Kurt C., and Wolf.

Wolfe, H. Hix, and E. W. Haas, assignors to The Dayton Pump & Manufacturing Company, Dayton, Ohio. Pressure switch. 2,657,289, Oct. 27.

Wolff, Ivan A.: *See*—
Davis, Howard A., Wolff, and Cluskey.

Wolke, Berndt S., Oskarshamn, assignor to Aktiebolaget Wicanders Korkfabriker, Linkoping, Sweden. Method and apparatus for mixing beverages. 2,657,023, Oct. 27.

Woller, Charles F.: *See*—
Glass, John, Jr., Heath, and Woller.

Woller, Edward E., assignor to Simons Company, Kenosha, Wis. Chair bed. 2,656,877, Oct. 27.

Wood, Robert W.: *See*—
Neis, Harry B., and Wood.

Woodling, George V., Cleveland, Ohio. Flareless sleeve connector having forward contractible ring end portion and rearward spring fingers. 2,657,077, Oct. 27.

Woodman, Charles K., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Pad box. 2,656,553, Oct. 27.

Wright, John H.: *See*—
Van Horn, John C., Ohlmann, Klinger, and Wright.

Wright's Biscuits Limited, assignee: *See*—
Page, Alfred C.

Yonkers, Edward H., Jr., Glencoe, Ill. Suction cleaner. 2,656,897, Oct. 27.

Young, David W., Roselle, and R. G. Newberg, Cranford, N. J., assignors to Standard Oil Development Company. Blends of elastomers with modified phenolic resins. 2,657,185, Oct. 27.

Zappia, Joseph P., Maple Heights, Ohio. Warning device for vehicles. 2,657,379, Oct. 27.

Zaremba Company, assignee: *See*—
Hughes, Burton S.

Zeigler, Philip B.: *See*—
Lincoln, Clovis W., Zeigler, and Malone.

Zeller, Paul: *See*—
Isler, Otto, Hindley, and Zeller.

Ziegler, Arthur W., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Piezoelectric crystal unit. 2,657,320, Oct. 27.

Ziemianin, John J., Jr., Chicago, Ill. Switchboard plug. 2,657,369, Oct. 27.

Zingg, Emil F., Berneck, assignor to Societe de la Viscose Suisse, Emmenbrucke, Switzerland. Axially expandable stand for the liquid after treatment of yarn packages. 2,656,703, Oct. 27.

Zink, Donald G.: *See*—
Burgison, Raymond M., Forman, and Zink.

Zweidler, Reinhard: *See*—
Hausermann, Heinrich, and Zweidler.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 27TH DAY OF OCTOBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Camber and caster gauge. L. R. V. Jacobsen. Re. 23,730, Oct. 27.

Door for tumbler type clothes washing machines, Swingable. H. Miller. Re. 23,727, Oct. 27.

Heavy-duty fiber container. S. P. Belsinger. Re. 23,729, Oct. 27.

Variable drive, Automatic. M. Telgman. Re. 23,728, Oct. 27.

LIST OF PLANT INVENTIONS

Rose plant. E. S. Boerner. 1,225, Oct. 27.

Sansevieria plant. S. F. Hahn. 1,224, Oct. 27.

LIST OF DESIGN INVENTIONS

Apron or similar article. D. E. Godfredsen. 170,689, Oct. 27.

Automobile. I. H. Johnson. 170,693, Oct. 27.

Bowl. W. D. Pusecker. 170,715, Oct. 27.

Bracelet or the like. A. Katz. 170,698, Oct. 27.

Bracelet or the like. A. Katz. 170,700, Oct. 27.

Cabinet, Gun. C. H. Krueger. 170,705, Oct. 27.

Camera. C. H. Frank, Jr. 170,686–7, Oct. 27.

Chain for a bracelet or the like, Expansible link. E. Rodrigues. 170,719–20, Oct. 27.

Chain for a braclet or the like, Link. A. Katz. 170,702, Oct. 27.

Chair. H. J. Kaufman. 170,704, Oct. 27.

Cigarette. H. M. Reseska. 170,716, Oct. 27.

Cooler and fan, Combined water. B. Cisenfeld. 170,678, Oct. 27.

Cover, Banquet. D. L. Painter. 170,712, Oct. 27.

Dish or the like. E. Zeisel. 170,735, Oct. 27.

Dispenser display, Beverage. S. Vitale. 170,732, Oct. 27.

Doll. M. W. Peters. 170,714, Oct. 27.

Dress. B. C. Tilhou. 170,731, Oct. 27.

Dress ensemble. H. Lipman. 170,708, Oct. 27.

Fireplace and grill, Combination outdoor. E. D. Ringwall. 170,718, Oct. 27.

Floor plate. A. B. Wilson. 170,733, Oct. 27.

Generator unit, Ozone. W. A. Pardey. 170,713, Oct. 27.

Girdle. M. Kahn. 170,694, Oct. 27.

Girdle, Panty. L. A. Rosner. 170,721, Oct. 27.

Hinge. G. Stahl. 170,725, Oct. 27.

Holder, Combined garbage and trash can. S. W. Kane. 170,695, Oct. 27.

Hoop-rolling stick or similar article. T. M. Chrisco. 170,677, Oct. 27.

Knocker and pull, Combination door. G. Stahl. 170,724, Oct. 27.

Lamp lens housing, Automobile. H. T. Bannister. 170,674, Oct. 27.

Latch, Bar. G. Stahl. 170,726, Oct. 27.

Mirror, Rearview. J. Fischer. 170,683–5, Oct. 27.

Motor, Electric. H. E. Lund. 170,709, Oct. 27.

Necklace or the like. A. Katz. 170,696–7, Oct. 27.

Necklace or the like. A. Katz. 170,699, Oct. 27.

Necklace or the like. A. Katz. 170,701, Oct. 27.

Necklace or the like. A. Katz. 170,703, Oct. 27.

Ornament for candlelights. M. Riesman. 170,717, Oct. 27.

Pair of goggles. H. G. Tietje. 170,729–30, Oct. 27.

Pencil or similar article. G. L. Beckstrom. 170,675, Oct. 27.

Porch column. W. L. Enghauser. 170,682, Oct. 27.

Ring, Finger. A. G. Sager. 170,722, Oct. 27.

Shadow box. M. E. Green. 170,690, Oct. 27.

Shirt, Sport. R. S. Dougherty. 170,681, Oct. 27.

Shirt, Sun tanning. J. J. Secosky and F. J. Sabo. 170,723, Oct. 27.

Sink, Corner. J. Stanitz. 170,727, Oct. 27.

Stand, Vending. E. G. Lindgren. 170,707, Oct. 27.

Strainer. V. P. Bourne-Vanneck. 170,676, Oct. 27.

Table, Serving. F. W. Jacoby. 170,692, Oct. 27.

Tire. E. W. Hawkinson. 170,691, Oct. 27.

Tire, Vehicle. A. H. Nellen. 170,710–11, Oct. 27.

Toolbox, Double. G. Tavolazzi. 170,728, Oct. 27.

Toothbrush. C. M. Del Mas. 170,680, Oct. 27.

Toy savings bank. R. V. Lentz. 170,706, Oct. 27.

Tray, Sandwich and hors d'Oeuvre. C. M. Del Mas. 170,679, Oct. 27.

Vending station, Combined food and beverage. L. A. Zon. 170,736–7, Oct. 27.

Washcloth. E. E. Wright. 170,734, Oct. 27.

Wrench, Ratchet. J. N. Gerlach. 170,688, Oct. 27.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 27TH DAY OF OCTOBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading machine. H. N. Seyferth. 2,656,651, Oct. 27.

Acidproofing the surface of porous calcareous articles. C. Brouwer. 2,657,154, Oct. 27.

Addition of fatty alcohol to yeast raised bakery products. P. Kass. 2,657,143, Oct. 27.

Adjustable air distributor. O. A. Labus. 2,656,782, Oct. 27.

Adjustable belly spring. A. H. Brandon. 2,656,890, Oct. 27.

Adjustable lever actuated tire bead breaking tool. M. B. Rodgers. 2,656,882, Oct. 27.

Adjustable outlet convector enclosure. B. Spieth. 2,656,781, Oct. 27.

Adjustable port arrangement for the high-pressure ends of fluid pumps and motors of the rotary screw type. G. Rathman. 2,656,972, Oct. 27.

Adjusting system for furnace controls. W. H. Payne. 2,657,327, Oct. 27.

Advertising device. E. F. McDonald, Jr. 2,656,630, Oct. 27.

Air and liquid mixing device. M. C. Reinecke. 2,657,024, Oct. 27.

Aircraft pedal drive with power accumulator. J. Isenberg. 2,656,994, Oct. 27.

Aircraft sustaining rotor blade with suction system for boundary layer control. H. S. Campbell. 2,656,892, Oct. 27.

Alarm for wrist watches. V. E. Mattson, Jr. 2,656,673, Oct. 27.

Aligning device. C. J. Harding. 2,656,607, Oct. 27.

Aligning fixture, Mason's. A. W. Craig, R. L. Sears, and S. E. Hubbard. 2,656,608, Oct. 27.

Alkali metal-free alumina, Manufacture of. K. D. Ashley. 2,657,115, Oct. 27.

Altitude controller unit. F. H. S. Rossire. 2,657,350, Oct. 27.

Alumina gel-containing catalysts. K. D. Ashley. 2,657,184, Oct. 27.

Aluminum-alloyed corrosion-resistant metal powders and related products and processes. G. Stern, S. J. Sindeband, and J. P. Scanlan. 2,657,129, Oct. 27.

Ammunition. J. D. Howell. 2,656,793, Oct. 27.

Amplifying device for use with telephone apparatus. J. C. S. and L. C. Branson. 2,657,265, Oct. 27.

Amylose films, Producing. H. A. Davis, I. A. Wolff, and J. E. Cluskey. 2,656,571, Oct. 27.

Angle connector for trough systems. F. G. W. Ullberg, Jr. 2,656,999, Oct. 27.

Antenna. L. F Kleis. 2,657,311, Oct. 27.

Antenna coupling network. A. J. Runft. 2,657,310, Oct. 27.

Antifriction bearing greases, Manufacturing of. L. W. Sproule and J. S. Gray. 2,657,180, Oct. 27.

Antimycin and process for production. G. W. Keitt, C. Leben, and F. M. Strong. 2,657,170, Oct. 27.

Antistall device. A. F. Braun. 2,657,037, Oct. 27.

Antistall device. J. R. Emerson. 2,657,038, Oct. 27.

Antitank mines. J. Dumas. 2,656,792, Oct. 27.

Antitheft device for internal-combustion powered vehicles. E. E. Herrell. 2,657,317, Oct. 27.

Apparatus for and the method of control and utilization of dry ice. J. G. Scott. 2,656,687, Oct. 27.

Apparatus for calipering well bores. R. W. Goble. 2,656,613, Oct. 27.

Apparatus for cold dry cleaning. D. McDonald. 2,656,696, Oct. 27.

Apparatus for dry filling concrete piles. R. Viera, L. Ignacio, and L. A. J. M. Frávega. 2,656,684, Oct. 27.

Apparatus for extruding plastic material. G. E. Berggren. 2,656,566, Oct. 27.

Apparatus for grading fruit according to size. A. W. Jansen. 2,656,922, Oct. 27.

Apparatus for handling corrugated paperboard. C. W. Apgar. 2,657,044, Oct. 27.

Apparatus for indicating unbalance in rotary bodies. A. C. Allen. 2,656,713, Oct. 27.

Apparatus for measuring relative angular movements. W. D. Moore. 2,656,818, Oct. 27.

Apparatus for plugging wells. L. W. Toelke. 2,656,891, Oct. 27.

Apparatus for production of reliefs. R. E. Martens and L. A. Whinnery. 2,656,766, Oct. 27.

Apparatus for seismic exploration. R. G. Piety. 2,657,373, Oct. 27.

Apparatus for sorting and feeding receptacle closure caps. J. C. and W. H. Johnson. 2,656,807, Oct. 27.

Apparatus for spraying hot liquids such as asphaltic emulsions on roadway surfaces. P. E. Jones. 2,657,092, Oct. 27.

Apparatus for supplying a liquid to a fluid pressure medium under flow. P. Ketelsen. 2,656,899, Oct. 27.

Apparatus for testing and controlling the concentration of solutions. W. N. Lindsay. 2,656,845, Oct. 27.

Apparatus for the detection of flaws. J. C. Dionne. 2,657,355, Oct. 27.

Apparatus for the mechanical production of acoustic vibrations for use in emulsification, dispersion or like processes. E. C. Cottell and J. E. Goodman. 2,657,021, Oct. 27.

Apparatus for the production of music. B. F. Miessner. 2,656,755, Oct. 27.

Apparatus for the transmission of current pulse combinations, particularly for teletyping. O. Moser. 2,657,260, Oct. 27.

Apparatus for treatment with liquids. T. J. Kearney and F. E. McGregor. 2,656,652, Oct. 27.

Aromatic substituted halo-butynes. A. L. Barney and P. S. Pinkney. 2,657,244, Oct. 27.

Article feeding mechanism with separator means actuated by feeding means. H. Baker. 2,657,049, Oct. 27.

Article handling machine. J. P. Murdoch and A. J. Faulhaber. 2,656,656, Oct. 27.

Article support. E. W. Pierie. 2,656,933, Oct. 27.

Artist's palette. G. Bergen. 2,656,633, Oct. 27.

Aryloxybenzaldehydethiosemicarbazones. H. Schmidt, F. Mietzsch, and R. Behnisch. 2,657,235, Oct. 27.

Ash receptacle for vehicles. A. Smereck. 2,657,002, Oct. 27.

Attaching clip. E. M. Carbary. 2,656,577, Oct. 27.

Automatic apparatus for the taking of liquid samples. E. H. Cox and H. B. Copeland. 2,656,724, Oct. 27.

Automatic chuck. W. F. Wilhelm and M. De Haas. 2,657,065, Oct. 27.

Automatic control device. L. Bescocca. 2,657,291, Oct. 27.

Automatic control system for feedback turbines. R. J. Coar. 2,656,675, Oct. 27.

Automatic cutoff device. H. T. Booth. 2,656,855, Oct. 27.

Automatic feed mechanism for power presses and like machines. C. E. Tallis. 2,657,046, Oct. 27.

Automatic ice-making, Method of and apparatus for. G. Muffly. 2,656,689, Oct. 27.

Automatic machine for molding pie shells from dough. G. R. M. Miller. 2,656,798, Oct. 27.

Automatic multichannel selection. D. F. Hoth and R. O. Soffel. 2,657,266, Oct. 27.

Automatic partition strip feeding mechanism. S. E. Schroeder. 2,656,770, Oct. 27.

Automatic sampler for liquid hydrocarbon streams. W. N. Kestner, W. C. Kohfeldt, and L. C. Barillier. 2,656,725, Oct. 27.

Automatic transmission. R. H. Ebsworth. 2,656,736, Oct. 27.

Automatic trip for two-way plow. W. F. Mellen. 2,656,774, Oct. 27.

Automatic vehicle parking system. S. J. Sumners and H. W. Frazer. 2,656,940, Oct. 27.

Automatic volume control. H. W. Augustadt. 2,657,264, Oct. 27.

Automatically operated cutting wheel for opening envelopes. B. B. Kaplan. 2,656,889, Oct. 27.

Automotive signal light control switch. A. Hopkin, Jr. 2,657,293, Oct. 27.

Auxiliary spring device for motor vehicles. J. N. Brekovich. 2,657,042, Oct. 27.

Axially expandable stand for the lionid after treatment of yarn packages. E. F. Zingg. 2,656,703, Oct. 27.

Azo dyestuffs. E. Moser. 2,657,202, Oct. 27.

Azo pigment. J. De Lucia and R. Eltonhead. 2,657,204, Oct. 27.

Bagging machine. F. Belmont. 2,657,003, Oct. 27.

Bagmaking and filling machine. J. P. Grady. 2,656,658, Oct. 27.

Balanced load hanger. T. K. Holmen. 2,656,997, Oct. 27.

Balanced pressure pickup. W. P. Mansfield and A. H. Cornish. 2,656,722, Oct. 27.

Bale attachment, Soft center. P. H. Harrer. 2,656,786, Oct. 27.

Ball confining club for croquet. J. Sorteberg. 2,657,056, Oct. 27.

Bar: *See*—
Boring bar.
Bearing: *See*—
Guard bearing.
Bearing construction. F. H. Stearns. 2,657,105, Oct. 27.
Bearing for disk tools. M. C. Kincaide. 2,657,103, Oct. 27.
Beater mechanism for softening ice cream. N. E. Spiess, Jr., E. M. Gropen, and K. R. Weaver. 2,657,022, Oct. 27.
Bed and seat combination, Folding. A. Winikoff. 2,656,547, Oct. 27.
Bed convertible to chair, Hospital. C. M. Larrick. 2,656,876, Oct. 27.
Beet harvester. C. W. Walz and H. F. Clausen. 2,656,661, Oct. 27.
Blanking die. J. S. Judd. 2,656,887, Oct. 27.
Blends of elastomers with modified phenolic resins. D. W. Young and R. G. Newberg. 2,657,185, Oct. 27.
Blends of polybutadiene and butadieneacrylonitrile copolymer. F. W. Banes, A. M. Gessler, and W. F. Fischer. 2,657,190, Oct. 27.
Blind landing system. E. Richon. 2,657,381, Oct. 27.
Board: *See*—
Ski practice board.
Boat anchor. D. D. McRae. 2,656,811, Oct. 27.
Boiler feed system. H. Hillier. 2,656,823, Oct. 27.
Bonded rubber articles, Production of. F. J. Tibenham. 2,657,162, Oct. 27.
Boring bar. L. Y. Poole. 2,656,742, Oct. 27.
Borosilicate optical glass. N. J. Kreidl. 2,657,146, Oct. 27.
Bottle. T. L. Ammarell. 2,656,842, Oct. 27.
Bourdon tube gauge. O. W. Heise. 2,656,723, Oct. 27.
Bowling ball cleaner. J. J. Vargo. 2,656,557, Oct. 27.
Box: *See*—
Garment packaging box. Pad box.
Bracket mounting for outboard motors. E. C. Kiekhaefer. 2,656,813, Oct. 27.
Brake: *See*—
Rotor brake.
Brake beam support. G. F. Couch. 2,656,901, Oct. 27.
Branch hose connector. C. C. Scheele. 2,656,853, Oct. 27.
Bridge circuit. R. L. Sink. 2,657,352, Oct. 27.
Bridge circuit. T. H. Wiancko. 2,657,353, Oct. 27.
Broach. C. A. Hooper. 2,656,390, Oct. 27.
Broiler structure. A. G. Feder. 2,657,110, Oct. 27.
Brush in elastic base for handpiece, Dental. A. D. Wiseman. 2,656,559, Oct. 27.
Building for liquid storage. O. Janssen. 2,656,709, Oct. 27.
Bulk paper plate wrapping machine. J. Buechek. 2,656,659, Oct. 27.
Bushing for spark plugs. W. B. Smits. 2,657,248, Oct. 27.
Butane-1,2,4-triol, Making. S. Siggia. 2,657,242, Oct. 27.
By-pass thermostatic valve. H. B. Drapeau and R. B. Wingerter. 2,656,982, Oct. 27.
Cable clamping device for feeder taps. E. F. Huston. 2,657,371, Oct. 27.
Cable connector. M. D. Bergan. 2,657,251, Oct. 27.
Cable terminal. J. M. Hobson. 2,657,370, Oct. 27.
Calculating machine function selection mechanism. V. S. Golemon. 2,656,976, Oct. 27.
Can body maker. E. Laxo. 2,656,806, Oct. 27.
Can carrier. H. A. Carruth. 2,656,960, Oct. 27.
Can filling machine having reciprocating product contacting plunger and moisture projecting device therefor. M. J. McDonough and E. E. Burchett. 2,656,966, Oct. 27.
Can opener. E. R. Birdsall. 2,656,598, Oct. 27.
Cane trash mover. W. H. Silver. 2,656,664, Oct. 27.
Car wheel borer. A. Trosch and R. R. Roberts. 2,657,063, Oct. 27.
Car wheel flange lubricator. D. A. Kelly. 2,656,898, Oct. 27.
Carpenter's layout tool. W. Siggson. 2,656,609, Oct. 27.
Carrier: *See*—
Can carrier.
Carrier. G. C. Currie. 2,656,959, Oct. 27.
Carrier telegraph system. H. T. Prior. 2,657,262, Oct. 27.
Carton carrier and unit for use therein, Bottle. R. W. Stevenson. 2,656,947, Oct. 27.
Cartridge retracting device. C. H. Stevens and K. W. Maier. 2,656,635, Oct. 27.
Case: *See*—
Garment holding case. Spectacle case.
Key case. Utility sick-call case.
Casemaker. P. Bunch, P. Mittomme, and R. Jennings. 2,656,551, Oct. 27.
Cast rotor. F. S. Korski. 2,657,324, Oct. 27.
Casting reel. A. E. Keates. 2,656,992, Oct. 27.
Catalytic reactor. J. F. Rollins. 2,657,121, Oct. 27.
Catalyzed reactions between hydrogen sulfide or dimercaptans and dialkenyl ethers or polyalkenyl amines. W. E. Vaughan and D. Harman. 2,657,238, Oct. 27.
Centrifugal apparatus for mixing gases and liquids. F. J. J. J. Henrard. 2,657,025, Oct. 27.
Centrifugal means for a high tension distributor arm. F. W. Hartman, Jr. 2,657,035, Oct. 27.
Centrifugal milling and insect destroying machine with rotary impeller and annular target. F. S. Smith. 2,656,988, Oct. 27.
Chair. W. H. Reinholz. 2,656,878, Oct. 27.
Chair bed. E. E. Wolter. 2,656,877, Oct. 27.
Chalk holder or the like. L. F. Schlieder. 2,656,605, Oct. 27.
Change cycle control mechanism. A. V. Lapish. 2,657,060, Oct. 27.
Cheese slicer. J. B. Taylor. 2,656,602, Oct. 27.
Chemical reactor. V. L. Bigsby and A. J. Petraline. 2,657,120, Oct. 27.
Chlorinated camphor and fenchone as insecticides. G. A. Buntin. 2,657,164, Oct. 27.
Chlorinated dicyclohexadiene and insecticidal compositions containing the same. G. A. Buntin. 2,657,165, Oct. 27.
Chlorinated terpene alcohols, esters, and ethers as insecticides. W. D. Stonecipher. 2,657,166, Oct. 27.
Chlorinated terpene derivative. W. L. Walton. 2,657,167, Oct. 27.
Chloromethyl derivatives of indigos. D. I. Randall. 2,657,214, Oct. 27.
Chlorosilanes. G. H. Wagner. 2,657,114, Oct. 27.
Chromium-alloyed corrosion-resistant metal powders and related products, Production of. S. J. Sindeband, G. Stern, and J. P. Scanlan. 2,657,127, Oct. 27.
Chromium-alloyed corrosion-resistant metal powders and related products. G. Stern, S. J. Sindeband, and J. P. Scanlan. 2,656,595, Oct. 27.
Chuck. H. E. Sloan. 2,657,068, Oct. 27.
Cigar lighter. A. A. Johnson. 2,657,297, Oct. 27.
Cigarette machine inking mechanism. H. L. Bechtold. 2,656,789, Oct. 27.
Circuit: *See*—
Bridge circuit. Negative feedback amplifier circuit.
Communication signal lamp control circuit. Physiological tone control circuit.
Electric wave excitation and control circuit. Signal receiver circuit.
Clamp retainer. G. H. Mowers. 2,657,372, Oct. 27.
Cleaner: *See*—
Bowling ball cleaner. Suction cleaner.
Clip: *See*—
Attaching clip.
Clutch: *See*—
Fluid operated friction clutch.
Clutch and brake control for endless track vehicles. J. W. Grenier. 2,656,904, Oct. 27.
Coated pipe. J. A. Cavallier. 2,656,857, Oct. 27.
Coating ceramic and masonry products. A. H. Russell. 2,657,153, Oct. 27.
Coating device for small articles. W. L. Crider. 2,656,538, Oct. 27.
Coating of fabrics. H. Gensel and E. Windemuth. 2,657,151, Oct. 27.
Coaxial directional coupler. R. E. Henning. 2,657,361, Oct. 27.
Coffee maker. J. W. McNairy. 2,657,299, Oct. 27.
Collapsible tube capping mechanism. H. A. Drew. 2,656,965, Oct. 27.
Collapsible wheeled vehicle. A. H. B. Quist. 2,657,069, Oct. 27.
Collar for drill pipes, Protective. W. J. Williams and J. W. E. Hanes. 2,657,101, Oct. 27.
Collar stay, Rolled. E. Heuman. 2,656,542, Oct. 27.
Color television receiver. A. Lesti. 2,657,257, Oct. 27.
Color television system. A. V. Bedford. 2,657,253, Oct. 27.
Color television system. W. T. Wintringham. 2,657,254–6, Oct. 27.
Colostomy unit. G. McConnell. 2,656,838, Oct. 27.
Combination lock. H. C. Behrens. 2,656,705, Oct. 27.
Combined guide and table structure. H. J. Waechter. 2,657,051, Oct. 27.
Communication signal lamp control circuit. B. Ostendorf, Jr., and R. A. Vanderlippe. 2,657,336, Oct. 27.
Composition comprising a polyvinyl chloride resin, a plasticizer, and a viscosity controlling agent. D. X. Klein and M. N. Curgan. 2,657,186, Oct. 27.
Composition for vulcanizing rubber. E. A. Van Valkenburgh. 2,657,147, Oct. 27.
Compounds with semicyclic double bond, Preparation of. L. Ruzicka and O. Jeger. 2,657,223, Oct. 27.
Compressor starting pressure relieving attachment. G. F. Pfeifer. 2,656,970, Oct. 27.
Concentrating apparatus. B. S. Hughes. 2,656,885, Oct. 27.
Concrete form tie. H. G. Gates. 2,656,581, Oct. 27.
Condensing silver. J. G. Kershaw and H. Fisher. 2,656,573, Oct. 27.
Confection package and toy structure. R. L. Batchlet. 2,657,144, Oct. 27.
Connecting device. M. Loeb. 2,656,550, Oct. 27.
Connector: *See*—
Branch hose connector. Twisted plug-cord connector.
Cable connector.
Container: *See*—
Frusto-conical container. Live bait container.
Heavy-duty fiber container.
Container and welded joint therein, Lined. G. W. Leupold. 2,656,949, Oct. 27.
Container feed and discharge mechanism. J. Boyce and J. C. Olsen. 2,656,911, Oct. 27.
Container for endless film reels. W. C. Eddy. 2,657,047, Oct. 27.

Continuous manufacture of yeast. E. G. Stich. 2,657,174, Oct. 27.
Continuous preparation of crystals. N. Chaudoye and A. Fourdeux. 2,657,122, Oct. 27.
Continuous separator. L. Kaschagen. 2,656,895, Oct. 27.
Control device. J. L. Harris. 2,657,283, Oct. 27.
Control mechanism for combination washers and driers. L. L. Miller. 2,656,695, Oct. 27.
Control system for automatically fed furnaces for solid organic fuels. W. J. Hatton. 2,656,799, Oct. 27.
Control system for multiple-point measuring instrument. W. McAdam. 2,657,376, Oct. 27.
Controlled, heterogeneous hydrolysis of polymeric esters. R. W. Nebel. 2,657,201, Oct. 27.
Controlled variable coolant system for engines. M. E. Hartz. 2,656,825, Oct. 27.
Convection heater. B. Spieth. 2,656,780, Oct. 27.
Conversion of sulfur dioxide to sulfur with hydroquinones. R. A. Patton. 2,657,119, Oct. 27.
Cooling apparatus. C. M. Nichols. 2,657,036, Oct. 27.
Cooling castings over sizing forms. J. C. Heintz. 2,656,593, Oct. 27.
Cooling of rectifier stack by thermal conduction. E. D. Wilson. 2,657,343, Oct. 27.
Copolymers of acetylene with certain vinylidene compounds. F. C. McGrew and P. S. Pinkney. 2,657,200, Oct. 27.
Copolymers of vinylidene cyanide with unsaturated aliphatic carboxylic acids. E. J. Carlson. 2,657,197, Oct. 27.
Core blowing apparatus. H. J. B. Herbruggen. 2,656,575, Oct. 27.
Core orienting apparatus and method. E. F. Brady. 2,657,013, Oct. 27.
Cornpicker roll. E. V. Collins. 2,656,666, Oct. 27.
Corrosion inhibitor. H. E. Morris. 2,657,217, Oct. 27.
Cotton harvester. T. W. Paul. 2,656,665, Oct. 27.
Counter construction and method. J. E. Walsh. 2,656,622, Oct. 27.
Coupling means. F. A. Krohm. 2,657,083, Oct. 27.
Cover: *See*—
Hinged wheel-supported hatch cover.
Cover for ends of books. V. B. Harrington. 2,657,072, Oct. 27.
Crossbar switch. J. H. Mogler. 2,657,275, Oct. 27.
Curtain fixture. I. Lundstrom. 2,656,934, Oct. 27.
Cutter: *See*—
Forage cutter. Milling cutter.
Cutting implement. J. W. Albritton. 2,656,601, Oct. 27.
Dehydrator cartridge. R. L. Dolan. 2,656,929, Oct. 27.
Demagnetizer for magnetic recorder-reproducer. W. A. Brastad. 2,657,277, Oct. 27.
Desk arm brace. A. P. Brashear, Jr. 2,656,879, Oct. 27.
Desulfurization of heavy petroleum oils. R. B. Mason. 2,657,175, Oct. 27.
Developer for diazotype materials. F. A. H. Kessels. 2,657,140, Oct. 27.
Developer for the positive diazotype-process containing a borate, a polyhydroxy alcohol, and a coupler component. F. A. H. Kessels. 2,657,137, Oct. 27.
Device for avoiding the dislocation of furnaces or ovens. J. C. Fourmanoit. 2,656,717, Oct. 27.
Device for boring the lockholes in doors. C. and F. Gellert. 2,656,862, Oct. 27.
Device for determining the depth of water of a predetermined temperature. R. O. Hooker. 2,656,610, Oct. 27.
Device for facilitating the swallowing of pills, tablets, capsules, and the like. F. F. Bryan. 2,656,837, Oct. 27.
Device for feeding sheet materials. W. A. Metcalf. 2,657,050, Oct. 27.
Device for separating potatoes from stones. F. D. Gray and E. G. Snyder. 2,656,921, Oct. 27.
Device for separating water and foreign matter from liquid fuel. C. Garaycochea. 2,656,926, Oct. 27.
Diamines, Preparation of. R. E. Foster and H. E. Schroeder. 2,657,240, Oct. 27.
Diazotype developer composition containing a potassium borate and process of using same. F. A. H. Kessels. 2,657,141, Oct. 27.
Dictating machine. M. Meunier. 2,657,062, Oct. 27.
Die adjusting mechanism. A. Saxer. 2,656,744, Oct. 27.
Die casting machine. W. H. Schwartz. 2,656,576, Oct. 27.
Die mechanism for extruding compressed powder rods. E. K. Leavenworth. 2,656,743, Oct. 27.
Diethanolaminopyridines. F. C. Copp. 2,657,212, Oct. 27.
Differential actuator motion transmission means. R. E. Boyden. 2,656,975, Oct. 27.
Diffuser device and article supporting base, Combination. G. W. Meek. 2,657,090, Oct. 27.
Dilatometer. G. E. Comstock, 3d. 2,656,712, Oct. 27.
Dilute alkali dispersible hot melt bookbinding adhesives. J. L. Evans and D. D. Micucci. 2,657,187, Oct. 27.
Dilute alkali dispersible hot melt bookbinding adhesives. P. S. Pinkney. 2,657,189, Oct. 27.
Direction signal switch. C. W. Lincoln, P. B. Zeigler, and R. A. Malone. 2,657,287, Oct. 27.
Directional antenna system. W. E. Antony. 2,657,313, Oct. 27.
Discharge device for finely divided fibrous material from a pressure system. H. S. Messing. 2,657,131, Oct. 27.
Dish. H. W. Clarke. 2,656,946, Oct. 27.
Disk type fluid pressure seal. A. Brunner. 2,656,680, Oct. 27.
Dispenser for drinking straws. T. R. Reece. 2,657,109, Oct. 27.
Dispensing device. J. W. Rich. 2,656,953, Oct. 27.
Dispensing pack for interfolded sheet material. C. A. Henderson. 2,656,916, Oct. 27.
Display card for bracelets and the like. W. Krust. 2,656,919, Oct. 27.
Display card for spectacles. M. Hollis. 2,656,917, Oct. 27.
Display card, Spectacles. M. Hollis. 2,656,918, Oct. 27.
Disulfide ring compounds and polymerization thereof. F. O. Davis. 2,657,198, Oct. 27.
Divan with shiftable back. N. E. Blanke and H. J. Sands. 2,656,548, Oct. 27.
Doll or the like. W. J. Schepp. 2,656,647, Oct. 27.
Door latch. A. A. Dedoes. 2,657,085, Oct. 27.
Door wheel mount, Overhead. J. H. McKee. 2,656,561, Oct. 27.
Draft responsive safety control for oil burners. P. S. Russel. 2,656,884, Oct. 27.
Drainage leaf attachment means for leaf type filters. R. P. De Vries. 2,656,930, Oct. 27.
Drawstring bags, Producing. P. B. Hultkrans. 2,656,769, Oct. 27.
Drier: *See*—
Grain drier. Mow hay drier.
Dry contact rectifier. R. A. Hill. 2,657,346, Oct. 27.
Dual edging. A. H. Graupner. 2,656,880, Oct. 27.
Duplex flow control apparatus. T. C. Noon and F. C. Bayer. 2,656,848, Oct. 27.
Duplex radio apparatus control. N. S. Parks. 2,657,304, Oct. 27.
Duplicating attachment for typewriters. N. S. McEwen. 2,656,909, Oct. 27.
Dyes containing a vinyl sulfone. J. Heyna and W. Schumacher. 2,657,205, Oct. 27.
Elastic connecting device for elastic fluid machines. O. A. Wiberg. 2,657,084, Oct. 27.
Electric apparatus for decomposing liquids and its use as a gasoline economizer. R. H. P. Devaux. 2,656,824, Oct. 27.
Electric circuit comprising a cathode-ray tube. G. Hepp. 2,657,330, Oct. 27.
Electric ignition and control for vaporizing oil burners. J. W. Miller and V. H. Hill. 2,656,883, Oct. 27.
Electric lighter. H. L. Rink and R. F. Spence. 2,657,340, Oct. 27.
Electric motor for driving a device within a compartment. C. R. Sutherland. 2,656,973, Oct. 27.
Electric pulse modulation system of communication. A. T. Starr and H. Grayson. 2,657,269, Oct. 27.
Electric regulator device and system for charging storage batteries. P. Kuhar. 2,657,351, Oct. 27.
Electric valve excitation and control circuit. M. J. Mulhern and C. E. Rettig. 2,657,337, Oct. 27.
Electrical power supply systems for communication system repeaters. R. Kelly. 2,657,279, Oct. 27.
Electrical socket connector with supporting clip. L. W. Brooks. 2,657,367, Oct. 27.
Electrode for electric discharge lamps. H. H. Homer and E. F. Lowry. 2,657,325, Oct. 27.
Electrodeposition of copper and copper alloys upon zinc and zinc alloys. H. Berman and S. Katz. 2,657,176, Oct. 27.
Electromagnetic audio amplifier. W. C. Kluz. 2,657,281, Oct. 27.
Electron tube marking. J. Weingarten. 2,657,133, Oct. 27.
Electronic color television. L. W. Parker. 2,657,331, Oct. 27.
Electronic heat-treating device. H. F. Kincaid, J. D. Graham, D. J. Reynolds, and E. M. Wharff. 2,657,301, Oct. 27.
Electronic induction translator. T. L. Dimond. 2,657,272, Oct. 27.
Electronic switch. A. J. Rack. 2,657,318, Oct. 27.
Electrotherapeutic oscillator. C. B. Howard. 2,656,839, Oct. 27.
Elutriator for hydrocarbon conversion systems. R. Kollgaard. 2,656,920, Oct. 27.
Emulsion treater. C. C. Johnson. 2,656,925, Oct. 27.
Engine: *See*—
Internal-combustion engine. Ram jet engine.
Engine starter gearing. J. R. Buxton and F. T. Christian. 2,656,727, Oct. 27.
Error-indicating code mechanism. W. T. Rea. 2,657,261, Oct. 27.
Esterifying the surface of a silica substrate having a reactive silanol surface and product thereof. R. K. Iler. 2,657,149, Oct. 27.
Evaporation type vehicle cleaning and cooling unit. C. F. Richter, Sr. 2,657,026, Oct. 27.
Exhaust for clothes driers. R. A. Benson. 2,656,784, Oct. 27.
Expansible core for glass filament windings. A. C. Radtke. 2,656,990, Oct. 27.
Fabric: *See*—
Pile fabric.
Fabric measuring and inspection machine. R. G. Birr and P. W. Jespersen. 2,656,756, Oct. 27.

Facsimile system wherein the recording is a modification of the copy. F. A. Hester. 2,657,258, Oct. 27.
Facsimile transmitter. J. H. Hackenberg. 2,657,259, Oct. 27.
Fastener: *See*—
Flexible thermoplastic fastener.
Feeder: *See*—
Pebble feeder.
Feeder tap. E. P. Smith. 2,657,290, Oct. 27.
Fence post driver and puller. W. E. and L. E. Sabin. 2,657,010, Oct. 27.
Filling machine. F. W. Kruger. 2,656,963, Oct. 27.
Film mount slide. C. J. Cadwell and F. M. Adamson. 2,656,631, Oct. 27.
Film packet. A. Kurnick and L. Brownstein. 2,656,772, Oct. 27.
Fire escape device. L. A. Eastman. 2,656,967, Oct. 27.
Firing mechanism for firearms. S. G. Green. 2,656,636, Oct. 27.
Fishing reel. L. C. Dukes. 2,656,993, Oct. 27.
Flat knitting machine. E. S. Barsby and A. P. Saunders. 2,656,694, Oct. 27.
Flexible band turning tool. W. W. Johnson. 2,656,749, Oct. 27.
Flexible harrow hitch. G. E. Garey. 2,656,660, Oct. 27.
Flexible joint for tubes. W. G. Hubbell. 2,657,076, Oct. 27.
Flexible thermoplastic fastener. R. W. Beaver and C. P. Sweeny. 2,656,541, Oct. 27.
Floating chuck. E. P. Bullard, III, and A. A. Tomenceak. 2,657,064, Oct. 27.
Floral display attachment for vehicles. J. V. Morris. 2,657,087, Oct. 27.
Flow control and shutoff valve for pilot burners. D. F. Drow. 2,657,006, Oct. 27.
Flow control valve. A. C. Anderson. 2,656,846, Oct. 27.
Fluid circulation head for drill strings. D. B. Grable. 2,657,016, Oct. 27.
Fluid impeller and self-sealing closure, Combined. E. A. Mader. 2,656,971, Oct. 27.
Fluid operated friction clutch. R. S. Langdon. 2,656,905, Oct. 27.
Fluid supply system. J. J. Prendergast. 2,656,927, Oct. 27.
Flush type outlet fixture. J. W. Wiesmann. 2,657,250, Oct. 27.
Folding tray structure for automobile instrument panels. T. Bisaga and D. Peczeniuk. 2,657,107, Oct. 27.
Forage cutter. O. E. Hints and R. Schinke. 2,656,868, Oct. 27.
Forging a headed element. J. H. Mansfield. 2,656,739, Oct. 27.
Fork for elevating trucks. H. E. Nilsson. 2,656,943, Oct. 27.
Forming a corrosion resistant paint and product resulting therefrom. A. Arent. 2,657,145, Oct. 27.
Forming an insoluble coating. J. Lolkema. 2,657,155, Oct. 27.
Forming bolt-retaining rings for flanged pipe coupling assemblies. C. J. Westling. 2,656,594, Oct. 27.
Foundry composition and method. T. E. Barlow. 2,657,113, Oct. 27.
Four-electrode transistor modulator. R. L. Wallace, Jr. 2,657,360, Oct. 27.
4-(tertiary-aminoalkanoylamina)-2-alkoxybenzoic acid derivatives and their preparation. R. O. Clinton. 2,657,210, Oct. 27.
Frame: *See*—
Picture frame.
Frequency or phase modulating system. M. G. Crosby. 2,657,359, Oct. 27.
Friction buffer for railway cars. G. E. Dath. 2,656,938, Oct. 27.
Fruit stemming machine. J. G. Aguilar and W. A. Cox. 2,656,867, Oct. 27.
Frusto-conical container. J. D. and E. M. Kvasnok, and A. B. Cutler. 2,656,969, Oct. 27.
Fuel duration computer. K. C. Cummings. 2,656,977, Oct. 27.
Fuel pump delivery valve. W. M. Nichols. 2,656,851, Oct. 27.
Fuel strainer and atomizer for internal-combustion engines. H. Goldman. 2,657,123, Oct. 27.
Fuel supplying means using crankcase pressure developed in a two-cycle engine for delivering fuel to the carburetor. W. C. Conover. 2,656,828, Oct. 27.
Furnace and process of operation, High-temperature electric. O. Bretschneider. 2,657,247, Oct. 27.
Furniture, Metal. B. F. Hamilton. 2,656,881, Oct. 27.
Garbage disposal apparatus. J. R. Backlund and V. E. Flanders. 2,656,985, Oct. 27.
Garden hose stake. C. P. Whitlock. 2,657,012, Oct. 27.
Garment and like presses. S. Newbery. 2,656,625, Oct. 27.
Garment button, Readily applicable and removable. T. J. Tworek. 2,656,578, Oct. 27.
Garment hanger. H. C. Cook, Sr. 2,656,954, Oct. 27.
Garment holding case. S. Kaplan. 2,656,913, Oct. 27.
Garment packaging box. H. B. Gordon. 2,656,914, Oct. 27.
Garment pressing machine. C. M. Clarke. 2,656,627, Oct. 27.
Gas and steam power generating unit, Combustion. A. C. Peterson. 2,656,677, Oct. 27.
Gas control valve. P. E. Brunberg. 2,656,856, Oct. 27.
Gas heater. W. O. Moran. 2,656,833, Oct. 27.
Gasket seal for pipe joints. J. R. Virgil. 2,657,078, Oct. 27.
Gauge: *See*—
Bourdon tube gauge. Liquid level gauge.
Camber and caster gauge. Oil burner electrode gauge.
Gauge for adjusting blanks in gear cutting machines. P. Aschwanden. 2,656,612, Oct. 27.
Gear: *See*—
Steering gear.
Gear case unit for outboard motors. E. C. Kiekhaefer. 2,656,812, Oct. 27.
Gear for portable freight units, Retractable. G. V. Helms. 2,656,942, Oct. 27.
Gearless speed reduction mechanism. G. L. Lang. 2,656,737, Oct. 27.
Generation of heating gas from solid fuels. L. P. Gaucher. 2,657,124, Oct. 27.
Generator: *See*—
Positive feedback pulse generator. Steam generator.
Saw-tooth current generator.
Grain drier. B. L. Tomlinson and D. E. Carlson, 2,657,031, Oct. 27.
Grain drier. B. L. Tomlinson. 2,657,032, Oct. 27.
Grating. P. Kerrigan, Jr. 2,656,903, Oct. 27.
Gravitational torquing means for gyro instruments. F. D. Braddon. 2,656,726, Oct. 27.
Gravity sorter and fast normaliser. D. C. Cox. 2,656,923, Oct. 27.
Grinder. W. S. Praeg. 2,656,655, Oct. 27.
Grinding machine. H. E. Drake. 2,656,987, Oct. 27.
Grinding machine with wheel surface position indicator. R. D. Gardner. 2,656,653, Oct. 27.
Grinding wheel. J. R. Erickson. 2,656,654, Oct. 27.
Gripping machine. V. J. Hugo, J. A. Miller, and H. Ottinger. 2,656,748, Oct. 27.
Guard bearing. L. A. Johnson. 2,657,102, Oct. 27.
Guide for yarn carriers. E. Jentsch. 2,656,692, Oct. 27.
Halogenation of benzenes containing sulfur in their allylic or propenylic side chains and products obtained thereby. O. Gaudin. 2,657,216, Oct. 27.
Hammer, Adjustable printing. F. R. Werner. 2,656,788, Oct. 27.
Handbag, Lady's. I. Wishnia. 2,656,870, Oct. 27.
Handle guided carrier and powered wheel therefor. C. E. Giovannoni. 2,656,894, Oct. 27.
Hanger: *See*—
Balanced load hanger. Garment hanger.
Header mount for sidehill harvesters. H. D. Witsel. 2,656,668, Oct. 27.
Heat exchanger. M. H. Hofmeister. 2,657,020, Oct. 27.
Heat exchanger. C. S. Simpelaar. 2,657,018, Oct. 27.
Heat insulating body structure for isothermal and/or refrigerator vehicles. P. G. Clément. 2,657,088, Oct. 27.
Heater: *See*—
Convection heater. Gas heater.
Heater fitting and connection. R. T. Schoerner. 2,656,981, Oct. 27.
Heating and injection cylinder in injection molding machine for thermoplastic materials. W. A. Venus. 2,656,567, Oct. 27.
Hemiacetals. G. W. Mast and F. E. Anderson. 2,657,241, Oct. 27.
Hexamethylenediamines, Preparation of. G. W. Rigby. 2,657,239, Oct. 27.
High-energy radiation counter. L. Goldstein. 2,657,315, Oct. 27.
High-speed standardisation of potentiometers. A. J. Williams, Jr. 2,657,349, Oct. 27.
High-temperature steel and articles. P. A. Jennings. 2,657,130, Oct. 27.
Hinge and latch, Combined. F. C. Phillips. 2,656,562, Oct. 27.
Hinge, Counterbalanced. W. R. Jones. 2,656,563, Oct. 27.
Hinged wheel-supported hatch cover. K. W. Jernstrom. 2,656,810, Oct. 27.
Holder: *See*—
Photographic plate or film holder. Refuse receptacle holder.
Sub holder.
Hook: *See*—
Sliding snap hook.
Hog ring clinching tool. W. D. Chilton. 2,656,539, Oct. 27.
Horizontal separator. C. O. Glasgow. 2,656,896, Oct. 27.
Hose and sprinkler head holder, Combined. J. G. Holmes. 2,657,096, Oct. 27.
Hybrid circuits. E. B. Skolnikoff. 2,657,280, Oct. 27.
Hydraulic fluid containing poly-(oxyethyleneoxy-1,2 propylene)ethers of glycerol. J. C. Van Horn, E. O. Ohlmann, J. D. Klinger, and J. H. Wright. 2,657,181, Oct. 27.
Hydraulic system for riveting presses. G. S. Forichon. 2,656,745, Oct. 27.
Hydrogenation derivatives of difurfuralacetone. K. Alexander and L. E. Schniepp. 2,657,220, Oct. 27.
Hypodermic syringe. G. M. Hickey. 2,656,836, Oct. 27.
Ice-cream bar bagging machine. K. A. Bevington. 2,656,961, Oct. 27.
Ice-making machine. J. R. Bayston. 2,656,686, Oct. 27.
Idling control for two-cycle engines. W. C. Conover. 2,656,827, Oct. 27.

Impedance matching network. W. H. Epperson. 2,657,362, Oct. 27.
Impeller assembly for dishwashers. L. A. and D. A. James. 2,657,095, Oct. 27.
Improvement in or relating to slide rules. N. E. Nicolet. 2,656,978, Oct. 27.
Indicator: *See*—
Line identification trouble indicator. Oil change indicator.
Ocular tension indicator. Traveling line load indicator.
Individual wheel spring suspension. G. Kallner. 2,657,070, Oct. 27.
Induction motor with sealed rotor. J. C. Holst. 2,657,322, Oct. 27.
Injection molding apparatus. A. S. Watkins and G. L. Warsack. 2,656,588–9, Oct. 27.
Ink transfer element. C. S. Francis, Jr. 2,567,157, Oct. 27.
Insert gathering and envelope stuffing machine. Z. E. Colby. 2,657,043, Oct. 27.
Installing underground pipes or ducts. C. W. Riva. 2,656,683, Oct. 27.
Instrument for determining ratio and polarity of transformers. J. E. Mulavey. 2,657,356, Oct. 27.
Instrument for relating casts to dental articulators. J. E. Brassie. 2,656,603, Oct. 27.
Insulated heat conducting unit. W. W. Gotshall. 2,656,902, Oct. 27.
Intermittent mechanical motion. E. Wildhaber. 2,656,731, Oct. 27.
Internal-combustion engine. E. J. Houdry. 2,656,830, Oct. 27.
Interpolymers of a difluorodichloroethylene, a 1,3-butadiene hydrocarbon and vinylidene chloride. V. L. Folt and E. J. Carlson. 2,657,199, Oct. 27.
Interval timer. J. J. Webber. 2,656,672, Oct. 27.
Intravenous attachment. E. Eisenstein. 2,656,835, Oct. 27.
Iron bending machine. W. H. Mann and E. V. Schmidt. 2,656,872, Oct. 27.
Ironing press apparatus for clothes, textile fabrics, or the like. P. J. Drain. 2,656,626, Oct. 27.
Irrigation flume outlet. R. L. Wold. 2,656,682, Oct. 27.
Isocinchomeronic acid, Preparation of. H. H. Herring, Jr. 2,657,207, Oct. 27.
Isopropyl alcohol process. A. P. Giraitis and M. C. Fuqua. 2,657,243, Oct. 27.
Itaconic acid, Production of. V. F. Pfeifer, G. E. N. Nelson, C. Vojnovich, and L. B. Lockwood. 2,657,173, Oct. 27.
Jack: *See*—
Walking jack.
Jack. H. B. Nels and R. W. Wood. 2,657,009, Oct. 27.
Jacket for water-cooled tubes. W. C. Schmitt. 2,657,019, Oct. 27.
Joint: *See*—
Pipe joint.
Joint for coaxial electrical cables. R. C. Mildner and C. E. C. Lovelace. 2,657,252, Oct. 27.
Ketone-diarylamine condensates, Preparation of. I. Mankowich. 2,657,236, Oct. 27.
Key case. C. E. Anderson. 2,656,871, Oct. 27.
Key-operated type positioning device. W. F. Koch. 2,656,787, Oct. 27.
Key operating means for computing machines. H. C. Fox. 2,656,980, Oct. 27.
Keying device. F. T. Blackman. 2,657,082, Oct. 27.
Kiln. H. Struckmann. 2,657,033, Oct. 27.
Knife having water discharging means, Paring. F. R. Barbee. 2,656,600, Oct. 27.
Knitting device. M. Buxbaum and M. Lebensfeld. 2,656,690, Oct. 27.
Knitting machine. A. Shortland. 2,656,691, Oct. 27.
Lag fuse. G. F. Laing. 2,657,294, Oct. 27.
Large-aperture optical system comprising two reflecting and refracting spherical surfaces in axial alignment. B. S. Paisse. 2,656,761, Oct. 27.
Lasting machine. E. L. Butler and O. M. Holmes. 2,656,552, Oct. 27.
Latch: *See*—
Door latch.
Latch attachment for valve-operated spray nozzles. M. Ganz. 2,657,007, Oct. 27.
Latching means for window meeting rails. H. A. Kaufmann. 2,656,574, Oct. 27.
Leaf type micro switch. H. Hubbell. 2,657,288, Oct. 27.
Lifter: *See*—
Valve spring lifter.
Light projecting attachment for firearms. L. L. Dickens. 2,657,303, Oct. 27.
Lighting control system. R. G. Williams. 2,657,338, Oct. 27.
Line circuit without relays. R. B. Buchner. 2,657,270, Oct. 27.
Line identification trouble indicator. I. H. Henry. 2,657,271, Oct. 27.
Linear polyesters from stilbene dicarboxylic acids. J. C. Butler and D. C. McGowan. 2,657,194, Oct. 27.
Linear polymers from stilbene dicarboxylic acid. W. G. Toland, Jr. 2,657,195, Oct. 27.
Liquid extraction with vacuum and heat. H. J. Rand. 2,656,697–8, Oct. 27.
Liquid level control apparatus. B. L. Covert and H. E. Dahlquist. 2,657,341, Oct. 27.
Liquid level gauge. P. A. O'Neill. 2,656,611, Oct. 27.
Live bait container. E. L. Johnson and E. J. Scofield. 2,656,640, Oct. 27.
Lobster and crab catcher. J. H. Richa. 2,656,642, Oct. 27.
Lock: *See*—
Combination lock. Window lock.
Rotary and sliding bolt lock.
Lock collar for trailer kingpins. G. L. Lucas, W. D. Edwards, and R. S. Chaffin. 2,656,706, Oct. 27.
Lock mechanism. F. Nilsson. 2,656,707, Oct. 27.
Lock with roller bearing support of bolt. E. R. Freeberg. 2,656,708, Oct. 27.
Locking coupler. J. J. Funk. 2,657,073, Oct. 27.
Lubricating apparatus operating through shaking of the lubricant for settling same. H. A. Chinchole. 2,656,952, Oct. 27.
Lubricator: *See*—
Car wheel flange lubricator.
Luminescent signaling device. K. L. Frost. 2,656,763, Oct. 27.
Luminous indicia dial for telephones. H. Ravin. 2,656,628, Oct. 27.
Machine for imprinting and heat sealing labels. R. W. Swett. 2,656,944, Oct. 27.
Machine for reproducing patterns or images. A. W. Scruggs. 2,656,604, Oct. 27.
Machine for sawing stones and the like. F. Perrier and G. Lemoine. 2,656,832, Oct. 27.
Machine for simultaneously conditioning the attaching surface and trimming the edge of unattached shoe soles. J. H. Kelly. 2,656,555, Oct. 27.
Machine for successively performing operations on vessels or other articles. R. Detrez. 2,656,964, Oct. 27.
Machine tool. D. H. Montgomery. 2,656,587, Oct. 27.
Magnetic lot selecting device. P. Selig. 2,657,059, Oct. 27.
Magnetic plate structure. D. E. Stem. 2,657,342, Oct. 27.
Making clothing from component parts of sheet material. G. Nahman. 2,657,159, Oct. 27.
Making ready cylindrical plates. F. E. Reilly. 2,656,790, Oct. 27.
Making relief pictures from plane pictures. O. M. Varner. 2,656,634, Oct. 27.
Making tobacco sheet material. M. H. Gurley, Jr. 2,656,841, Oct. 27.
Manufacturing composite plates, Method and apparatus for. O. E. Andrus. 2,657,298, Oct. 27.
Manufacturing phthalocyanines. M. Dudnikov. 2,657,213, Oct. 27.
Manufacturing snap disk springs. J. B. Cataldo and E. D. Tidd. 2,656,592, Oct. 27.
Manufacturing wet strength paper containing cationic urea-formaldehyde resin. J. H. Daniel, C. G. Landes, and T. J. Suen. 2,657,132, Oct. 27.
Material handling apparatus. A. A. Saul. 2,657,048, Oct. 27.
Material retaining end plate for roller mills. C. P. Brasington. 2,656,986, Oct. 27.
Mattress with toilet attachment. J. W. Osbon, Jr. 2,656,549, Oct. 27.
Means for adjustment of balancing machines. I. A. Weaver and C. H. Phelps. 2,656,710, Oct. 27.
Means for circulating mud in rotary well drilling rigs. O. Colquitt. 2,657,015, Oct. 27.
Means for controlling hoists and winches. J. C. Slonneger. 2,657,011, Oct. 27.
Means for conveying and arranging cans in rows. E. C. Kraus and M. V. Douthitt. 2,656,910, Oct. 27.
Meat curing device. A. C. Gannon, C. E. Kilby, and V. R. Rupp. 2,656,785, Oct. 27.
Mechanical flexion and extension wrist. G. B. Robinson. 2,656,546, Oct. 27.
Mechanical golf practice apparatus. F. W. Sonnett. 2,656,720, Oct. 27.
Mechanism for facilitating the removal of a lamp from its socket. G. F. Krtous. 2,657,366, Oct. 27.
Mechanism for turning the pages of a book. M. Romaniuk. 2,656,629, Oct. 27.
Metal oxide impregnated with silver permanganate as oxidation agent. M. Katz. 2,657,182, Oct. 27.
Metallic bellows. D. P. Schwester and J. J. Phillips. 2,657,074–5, Oct. 27.
Metering appliance with automatic solution shutoff device. A. H. Deatrick and A. J. Kish. 2,656,849, Oct. 27.
Method and apparatus for mixing beverages. B. S. Wolke. 2,657,023, Oct. 27.
Method and masking shield for interiorly coating hollow articles. H. E. Hermanson. 2,657,150, Oct. 27.
Method and means for obtaining a predetermined phase shift characteristic. W. A. Elliot and W. H. Erikson. 2,657,276, Oct. 27.
Method of and means for handling biscuits. A. C. Page. 2,656,907, Oct. 27.
Microscope nosepiece. C. J. Bowerman. 2,656,759, Oct. 27.
Mileage indicating attachment for self-propelled vehicles. M. M. Clark and R. E. Hansen. 2,657,285, Oct. 27.
Milk strainer for separator supply cans. W. H. Harstick. 2,656,928, Oct. 27.
Milling cutter. C. A. Billman. 2,656,591, Oct. 27.

Miter box for portable power saws. C. L. Thayer. 2,656,860, Oct. 27.
Mitten. J. E. Langford. 2,656,544, Oct. 27.
Moccasin, Welted. E. T. Taylor. 2,656,620, Oct. 27.
Monoazo dyestuffs of the pyrazolone series. W. Widmer and A. Fasciati. 2,657,203, Oct. 27.
Motion amplifier. V. Guillemin, Jr. 2,656,735, Oct. 27.
Motor vehicle air conditioner. E. S. Marion. 2,657,027, Oct. 27.
Mount and means for supporting and orienting optical devices. M. B. Johnson. 2,656,764, Oct. 27.
Mow hay drier. B. F. Heal. 2,656,783, Oct. 27.
Multiple bore pulley assembly. R. A. Joelson. 2,657,081, Oct. 27.
Multiple buck press. L. M. Kahn. 2,656,624, Oct. 27.
Multiple scale electrical test instrument. C. Rosso. 2,657,357, Oct. 27.
Multiple unit control system. E. S. Bristol. 2,657,347, Oct. 27.
Multiposition caster lock for airplane cross-wind main landing wheels. E. Wolf. 2,656,995, Oct. 27.
N-aminophthalic imides and salts thereof as fungicidal compositions. W. B. Ligett, R. D. Closson, and C. N. Wolf. 2,657,169, Oct. 27.
Necktie. M. J. Cohan. 2,656,543, Oct. 27.
Needle threader. J. S. Kahn. 2,656,956, Oct. 27.
Negative feedback amplifier circuit. J. te Winkel. 2,657,282, Oct. 27.
New and improved solutions of zein and method of making same. J. R. Ehrlich. 2,657,148, Oct. 27.
Nitrogen oxides, Production of. F. Daniels. 2,657,116, Oct. 27.
Nondestructive investigation of magnetostrictive solids, Method and apparatus for. W. O. Cartier. 2,656,714, Oct. 27.
Nonscratching packing pad. G. A. Gerard. 2,657,158, Oct. 27.
Novel cyanoalkoxy silanes. K. C. Frisch and M. Wolf. 2,657,226, Oct. 27.
Novel N-(2-carboxyalkyl) succinimides, Preparation of. T. H. Shelley. 2,657,215, Oct. 27.
Null seeking system. J. Jarvis. 2,657,348, Oct. 27.
Nutcracker. J. C. Rumsey. 2,656,866, Oct. 27.
Objective test device with universal scoring mask. T. G. and L. L. Thurstone. 2,656,619, Oct. 27.
Ocular tension indicator. C. P. Tolman. 2,656,715, Oct. 27.
Oil burner electrode gauge. W. G. Rowell. 2,656,615, Oct. 27.
Oil change indicator. L. L. Jones. 2,656,817, Oct. 27.
Oil well survey instrument. J. C. Hewitt, Jr. 2,656,616, Oct. 27.
Olefin-vinyl acetate copolymers and vinyl resins plasticized therewith. W. A. Denison and W. N. Stoops. 2,657,188, Oct. 27.
1-methylpiperidylmethanols, Preparation of. R. F. Feldkamp. 2,657,211, Oct. 27.
One-piece roller bearing cage. L. R. Lovell and J. E. West, Jr. 2,657,106, Oct. 27.
Optical viewer. J. A. Cole. 2,656,738, Oct. 27.
Orchard ladder with adjustable platform and fruit receiving means. H. Tidwell. 2,656,968, Oct. 27.
Organic peroxide and hydroperoxide herbicides. L. D. Goodhue and C. E. Tissot. 2,657,125, Oct. 27.
Orthopedic device for the ankle. N. R. Hatkoff. 2,656,834, Oct. 27.
Outboard motor-driven hydroplaning boat. E. C. Kiekhaefer. 2,656,814, Oct. 27.
Overload brake means for vehicles. J. G. Lindeman. 2,656,893, Oct. 27.
Overload limiting device. W. F. Borgerd. 2,656,685, Oct. 27.
Overriding shank for resilient shank plows. W. T. Graham. 2,656,778, Oct. 27.
Oxygen lancing of furnace flues and checkers. T. A. Thompson. 2,657,034, Oct. 27.
Packaging article. M. A. Beckmann. 2,656,931, Oct. 27.
Pad: *See*—
Nonscratching packing pad.
Pad box. C. K. Woodman. 2,656,553, Oct. 27.
Panel edge grooving attachment for electric handsaws. G. H. Bugenhagen. 2,656,863, Oct. 27.
Parachute having an inflatable opening means. A. N. Hovland. 2,656,996, Oct. 27.
Parking meter control system. J. A. T. Ellison. 2,656,908, Oct. 27.
Pebble feeder. L. J. Webe-. 2,656,941, Oct. 27.
Penetrometer. G. A. Hoggatt. 2,656,716, Oct. 27.
Phosphate coating composition and process. M. Hyams and A. Nicholson. 2,657,156, Oct. 27.
Photographic antiplumming agents and compositions containing them. E. B. Knott and P. K. Brooks. 2,657,136, Oct. 27.
Photographic developing apparatus. K. Wiebalck. 2,656,773, Oct. 27.
Photographic emulsion with colored couplers containing isophthalic ester groups. B. Graham, P. W. Vittum, and A. Weissberger. 2,657,134, Oct. 27.
Photographic emulsions and solutions containing thioglycolic acid derivatives. W. G. Lowe and M. E. Hamshire. 2,657,135, Oct. 27.
Photographic film developing composition containing beta, beta'-dichloroethyl ether. L. A. Robbins. 2,657,138, Oct. 27.
Photographic plate or film holder. F. V. Hasselblad. 2,656,771, Oct. 27.
Physiological tone control circuit. H. A. Broos. 2,657,363, Oct. 27.
Pickup mechanism. O. E. Hintz. 2,656,670, Oct. 27.
Picture frame. H. Detje. 2,656,632, Oct. 27.
Piezoelectric crystal unit. A. W. Ziegler. 2,657,320, Oct. 27.
Pile fabric. W. E. Cowie and A. E. Blouin. 2,656,586, Oct. 27.
Pilot operated free return resistance valve. J. K. and W. G. Douglas. 2,656,854, Oct. 27.
Pipe: *See*—
Coated pipe.
Pipe joint. P. David. 2,657,079, Oct. 27.
Pipe laying apparatus. F. M. Reising. 2,656,800, Oct. 27.
Pitcher's control target with automatic ball return. H. Mulcahy. 2,657,038, Oct. 27.
Plant spraying machine. J. B. Kucera. 2,657,093, Oct. 27.
Plant tying machine. W. N. Aleshin. 2,656,538, Oct. 27.
Planter unit. J. T. Murphy. 2,656,951, Oct. 27.
Plastic matrix for printing resistors. E. F. Harmon and P. J. Franklin. 2,656,570, Oct. 27.
Plastic wheel structure. J. S. Judd. 2,657,099, Oct. 27.
Plating thickness regulator. G. H. Rendel. 2,657,177, Oct. 27.
Pleating. A. M. Hess. 2,656,886, Oct. 27.
Plied yarn and plied yarn fabric and making same. H. B. Jackson. 2,656,585, Oct. 27.
Pliers for split shot. J. Glass, Jr., R. J. Heath, and C. F. Woller. 2,656,746, Oct. 27.
Plug: *See*—
Switchboard plug.
Pneumatic pumping equipment. J. Williamson, Jr. 2,656,794, Oct. 27.
Polyaminotriazoles, Production of. J. W. Fisher, H. Bates, and E. W. Wheatley. 2,657,196, Oct. 27.
Polychloro bicyclo heptanes as insecticides. G. A. Buntin. 2,657,168, Oct. 27.
Polyhalocyclohexenone compositions adapted for herbicidal and other use. W. D. Stewart and J. H. Standen. 2,657,126, Oct. 27.
Polymerization of acrolein. H. C. Miller and H. S. Rothrock. 2,657,192, Oct. 27.
Polymerization of acrylonitrile in the presence of preformed interpolymers. H. W. Coover, Jr., and J. B. Dickey. 2,657,191, Oct. 27.
Portable artillery shield. C. W. Raymond. 2,656,765, Oct. 27.
Positive feedback pulse generator. J. W. Balde, J. C. Bregar, and K. L. Chapman. 2,657,307, Oct. 27.
Potentiometer. R. E. Barclay. 2,657,295, Oct. 27.
Potentiometer compensating machine. H. R. Brown, Jr. 2,657,296, Oct. 27.
Power-driven toothbrush. C. B. Smithson, Jr. 2,657,321, Oct. 27.
Power lift. O. W. Oerman. 2,656,775, Oct. 27.
Power take-off attachment for motor vehicles. L. W. Downey. 2,656,728, Oct. 27.
Power transmission. R. H. Dicke. 2,656,733, Oct. 27.
Power transmission control governor. R. L. Jaeschke. 2,657,323, Oct. 27.
Preparing a homogeneous aqueous colloidal dispersion of silica and a hydrous oxide of zinc, aluminum, tin, or columbium and the resulting product. M. F. Bechtold. 2,657,183, Oct. 27.
Preparing amino acids. L. K. Borkenhagen. 2,657,232, Oct. 27.
Preparing dicarboxylic acid chlorides. J. E. Carnahan. 2,657,233, Oct. 27.
Preparing 1-methyl-4-phenyl-4-cyanopiperidine. F. F. Blicke. 2,657,208, Oct. 27.
Press: *See*—
Multiple buck press. Shoe back line press.
Presser device for shoe sewing machines. P. Actis. 2,656,802, Oct. 27.
Pressure containing flexible wave guide. R. S. Carr. 2,657,364, Oct. 27.
Pressure cooker valve. H. A. Westby. 2,656,852, Oct. 27.
Pressure responsive photoelectric indicating, measuring, and control device. F. C. Melchior. 2,656,721, Oct. 27.
Pressure switch. H. H. Wolfe and E. W. Haas. 2,657,289, Oct. 27.
Primary suction drum assembly. R. H. Breyfogle. 2,656,768, Oct. 27.
Process and apparatus for producing glass fibrous tubes. J. F. Stephens. 2,656,873, Oct. 27.
Process and means for metallizing nonconductive bases. F. M. New. 2,657,097, Oct. 27.
Producing alkylene-bis-dithio-alkylene and -arylene-dicarboxylic acids. J. Klarer and H. Timmler. 2,657,231, Oct. 27.
Producing an electrophotographic plate. O. J. Mengali and A. E. Middleton. 2,657,152, Oct. 27.
Producing electrified powders by friction, Method and apparatus for. P. Hampe. 2,657,339, Oct. 27.
Producing heat exchange elements. J. Plumeri and A. L. Reisinger. 2,656,808, Oct. 27.

Projector and target game. A. A. Chapin. 2,657,057, Oct. 27.
Prosthetic device sensory attachment. J. E. Conzelman, Jr., H. B. Ellis, and C. W. O'Brien. 2,656,545, Oct. 27.
Pulley and making same. O. Mitchell. 2,656,730, Oct. 27.
Pulpwood saw grinder. R. L. Tomlin. 2,656,738, Oct. 27.
Pulse translation apparatus. F. Gray. 2,657,378, Oct. 27.
Pump: *See*—
Unidirectional, rotary variable delivery fluid pump.
Pump and motor hydraulic transmission system, Rotary. C. Morey. 2,656,679, Oct. 27.
Pump apparatus of the shoulder pack type, Portable. R. W. Austin. 2,656,958, Oct. 27.
Pumping equipment, Pneumatic. J. Williamson, Jr. 2,656,794, Oct. 27.
Purifying carbonaceous material. N. W. F. Phillips, E. A. Hollingshead, and J. S. Mutchmor. 2,657,118, Oct. 27.
Push-button turn signal switch. C. H. Hoklas. 2,657,286, Oct. 27.
Racking mechanism for microphotometers. J. Stern. 2,656,757, Oct. 27.
Radio and television antenna. C. Saranga. 2,657,312, Oct. 27.
Radio receiving circuit arrangement. F. C. Williams. 2,657,306, Oct. 27.
Raising and lowering a center leaf in extension tables, Means for. C. Lallier. 2,657,108, Oct. 27.
Ram jet engine. G. W. Kallal. 2,656,676, Oct. 27.
Ratchet tool with angularly adjustable handle. W. Bright. 2,656,865, Oct. 27.
Razor, Safety. S. Segal. 2,656,599, Oct. 27.
Receptacle filling machine. G. H. Daniels. 2,656,962, Oct. 27.
Recirculation system. W. H. Phillips and G. E. Gard. 2,657,094, Oct. 27.
Reconstituted milk process. D. D. Peebles and M. D. Girvin. 2,657,142, Oct. 27.
Record changer. E. J. Sperber. 2,657,061, Oct. 27.
Rectifier stack. P. T. O'Neil. 2,657,344, Oct. 27.
Reel: *See*—
Casting reel. Thread advancing reel.
Fishing reel.
Reel end alarm. J. Favre. 2,656,816, Oct. 27.
Reel seat. P. W. Phillipson. 2,656,639, Oct. 27.
Reel structure for shortening wire cords. J. E. Neely. 2,656,991, Oct. 27.
Refining of fatty oils, especially vegetable oils. S. F. N. Bierke. 2,657,224, Oct. 27.
Refrigerator door with a compartment. L. H. Hinkel. 2,656,688, Oct. 27.
Refuse receptacle holder. E. F. Bennett and O. Jarvis. 2,657,001, Oct. 27.
Reinforced leather stripping and method of making the same. E. B. Luitweiler. 2,657,161, Oct. 27.
Regulator: *See*—
Plating thickness regulator.
Remote-control mechanism for tank trucks. C. C. Clough. 2,656,732, Oct. 27.
Removal of oxygenated organic compounds from hydrocarbons. R. M. Burgison, S. E. Forman, and D. G. Zink. 2,657,227, Oct. 27.
Removing color developer stain in azine dye images. J. E. Bates. 2,657,139, Oct. 27.
Replaceable jaw insert for pipe wrenches. W. J. Johnson and C. G. Ertell. 2,656,751, Oct. 27.
Reproduction of signals from magnetic records. F. Gray. 2,657,377, Oct. 27.
Resinous condensation products from an aldehyde or ketone with a chroman, thiachroman, coumaran, or benzodihydrothiafuran. H. S. Bloch and H. E. Mammen. 2,657,193, Oct. 27.
Resolution of lysine. A. O. Rogers. 2,657,230, Oct. 27.
Retaining device for slide fasteners. D. E. Wilson. 2,656,579, Oct. 27.
Retractable bar feeding machine. S. Ovshinsky. 2,656,588, Oct. 27.
Robe with fasteners. V. L. Stephenson. 2,656,540, Oct. 27.
Rock catcher. J. L. Smallwood. 2,656,572, Oct. 27.
Rock drilling apparatus. J. C. Curtis. 2,657,017, Oct. 27.
Rocker arm for knitting machines and the like. E. Bellini. 2,656,729, Oct. 27.
Rocking type pipe bender with adjustable gauge means. J. W. Lewin. 2,656,747, Oct. 27.
Rotary and sliding bolt lock. E. Mancuso. 2,656,704, Oct. 27.
Rotary coupling and valve. D. F. Collins. 2,656,847, Oct. 27.
Rotary machine for compacting loose material to solid prismatic lumps. J. L. Chambon. 2,656,797, Oct. 27.
Rotatable top combination woodworking machine. E. J. Verret. 2,656,861, Oct. 27.
Rotating amusement apparatus. M. Myers. 2,657,054, Oct. 27.
Rotor brake. C. B. Tack. 2,656,900, Oct. 27.
Round cornering machine. C. C. Cruzan. 2,656,888, Oct. 27.
Rudder and propulsion device, Combination. J. W. Frasure. 2,656,809, Oct. 27.
Rug feeding apparatus. J. P. Wilson and W. H. Scott. 2,657,045, Oct. 27.
Rug scouring apparatus. H. C. Hartenbach, Jr. 2,656,701, Oct. 27.
Safety mechanism for uncoupling a shaft from the driving member of a machine. A. van Haandel. 2,656,906, Oct. 27.
Safety pressure device. R. S. Coffman. 2,656,950, Oct. 27.
Saw-tooth current generator. J. Haantjes, J. J. P. Valeton, and B. W. V. Schenau. 2,657,333, Oct. 27.
Seal for railroad journals. L. A. Johnson, E. D. Mosher, and C. A. Stephens. 2,657,080, Oct. 27.
Sealing apparatus. J. F. De Ano. 2,656,650, Oct. 27.
Seat: *See*—
Reel seat.
Sectional box wrench. M. P. Rasco. 2,656,750, Oct. 27.
Sectional carbon electrode. L. J. McCarty. 2,657,326, Oct. 27.
Seed harvester having flexible stripping means. C. W. Smith and M. F. Arms. 2,656,667, Oct. 27.
Seed pellet. M. H. Ostier. 2,656,649, Oct. 27.
Selective polymerization of isobutylene. H. G. Schneider and H. G. Goering. 2,657,246, Oct. 27.
Self-unloading bin. L. G. Weller. 2,657,100, Oct. 27.
Semiautomatic turret lathe. C. E. Greene and R. B. Lesher. 2,656,589, Oct. 27.
Sender overload control. M. E. Maloney. 2,657,273, Oct. 27.
Separation and recovery of methyl amines. R. M. Isham. 2,657,237, Oct. 27.
Separator: *See*—
Continuous separator. Horizontal separator.
Sewing machine. C. Reinhold. 2,656,805, Oct. 27.
Sheet counting device for sheet handling machines. A. De Palma. 2,656,979, Oct. 27.
Sheet delivery mechanism. T. J. Elliott. 2,657,052, Oct. 27.
Shield for automobile windows, Weather. A. A. Kaul. 2,657,089, Oct. 27.
Shock absorbing mechanism for draft riggings of railway cars. V. S. Danielson and C. A. Anderson. 2,656,935, Oct. 27.
Shock absorbing mechanism for railway draft riggings. V. S. Danielson and R. G. Tillou. 2,656,936, Oct. 27.
Shock absorbing mechanism for railway draft riggings. R. G. Tillou. 2,656,937, Oct. 27.
Shock testing machine. E. W. Tschudi. 2,656,711, Oct. 27.
Shoe back line press. A. H. Altvater. 2,656,554, Oct. 27.
Shoe bottom heater with links for adjusting heating-grid supports. F. R. Smith. 2,657,029, Oct. 27.
Shoe sewing machine needle. F. C. Eastman. 2,656,804, Oct. 27.
Shoe support. R. A. Unger. 2,656,556, Oct. 27.
Shot patterning recoil compensator for firearms. K. D. Richards. 2,656,637, Oct. 27.
Shotgun choke. W. F. Cobb. 2,656,638, Oct. 27.
Shuttle holding means. K. Schwabe. 2,656,858, Oct. 27.
Signal: *See*—
Traffic signal.
Signal control system. J. N. Paul. 2,657,375, Oct. 27.
Signal receiver circuit. W. Brandt. 2,657,308, Oct. 27.
Silicon-alloyed corrosion-resistant metal powders and related products and processes. G. Stern, S. J. Sindeband, and J. P. Scanlan. 2,657,128, Oct. 27.
Size control for cathode-ray tube deflection circuits. R. K. Lockhart. 2,657,332, Oct. 27.
Ski practice board. J. E. Denham. 2,657,055, Oct. 27.
Slack stabilizer. E. W. Peters. 2,656,939, Oct. 27.
Slasher roll. A. L. Freedlander. 2,656,582, Oct. 27.
Sleeping bag and tent, Combined. B. L. Kreuzer. 2,656,844, Oct. 27.
Sleeve connector having forward contractible ring end portion and rearward spring fingers, Flareless. G. V. Woodling. 2,657,077, Oct. 27.
Slide clamping mechanism for mechanical stages for microscopes. C. J. Bowerman. 2,656,760, Oct. 27.
Sliding closure. S. P. Kjellgren. 2,657,111, Oct. 27.
Sliding snap hook. W. A. Javery. 2,656,580, Oct. 27.
Snowplow. F. M. Becker. 2,656,623, Oct. 27.
Snubbed spring group. R. B. Cottrell. 2,657,041, Oct. 27.
Snubbed spring group. L. F. Ramos. 2,657,040, Oct. 27.
Soil shear testing machine. T. R. Dames, W. W. Moore, and J. W. Maloney. 2,656,718, Oct. 27.
Spectacle case. R. F. E. Stegeman. 2,656,912, Oct. 27.
Spindle positioner for machine tools. R. B. Treer. 2,656,754, Oct. 27.
Spiral coil loose-leaf binder and the like. H. Busse. 2,657,071, Oct. 27.
Spray apparatus for railroad rights of way. J. P. Quarles. 2,657,091, Oct. 27.
Spray nozzle. D. Strahman. 2,657,098, Oct. 27.
Spring: *See*—
Adjustable belly spring.
Spring actuated sash balance. A. Colonna. 2,656,564, Oct. 27.
Spring group assembly. J. E. Flesch. 2,657,039, Oct. 27.
Stabilized arc suppressing system for electronic devices using static components. C. C. Herskind. 2,657,335, Oct. 27.
Stand for pressing irons. C. R. Tonks. 2,657,000, Oct. 27.
Stapler actuator, Electrically operable. J. J. Geel. 2,656,537, Oct. 27.
Starter for internal-combustion engines. L. H. Crippen. 2,656,829, Oct. 27.
Steam generating system for vehicles. R. Williams. 2,656,822, Oct. 27.
Steam generator. W. A. Ray. 2,656,821, Oct. 27.

Steering gear. W. K. Creson, P. A. Newman, and M. W. Berghoff. 2,656,734, Oct. 27.
Stock feed mechanism. W. B. Retz. 2,656,859, Oct. 27.
Stocking drying apparatus. L. E. Carr. 2,656,932, Oct. 27.
Stool. H. H. Hutchinson. 2,656,875, Oct. 27.
Storage- and autoclave-stable concentrated dihydrostreptomycin solution. T. J. Macek and E. J. Hanus. 2,657,171, Oct. 27.
Storage battery. F. F. Kurth. 2,657,249, Oct. 27.
Storage device utilizing semiconductor. F. Gray. 2,657,309, Oct. 27.
Straight beam clamp with adjustable self-locking jaw. F. P. Hopfeld. 2,656,864, Oct. 27.
Sub holder. V. V. Webster. 2,657,014, Oct. 27.
Suction cleaner. E. H. Yonkers, Jr. 2,656,897, Oct. 27.
Sulfonic acid aryl esters of polyarylethylene derivatives and a process of making same. H. Hausermann and R. Zweidler. 2,657,228, Oct. 27.
Support: *See*—
Article support.
Brake beam support.
Shoe support.
Window fan support.
Support for garment hangers, Shoulder. P. M. Harrell. 2,656,955, Oct. 27.
Support for manikins. E. Bloch. 2,656,957, Oct. 27.
Supporting means for a portable sluice. W. Thomas. 2,656,924, Oct. 27.
Supporting trough for cables. F. G. W. Ullberg, Jr. 2,656,998, Oct. 27.
Suppressing photoelectric threshold. H. Friedman. 2,657,316, Oct. 27.
Surveying instrument. D. C. Porter. 2,656,606, Oct. 27.
Suspension system for seismograph detectors. T. Bardeen. 2,657,374, Oct. 27.
Switch: *See*—
Automotive signal light control switch.
Crossbar switch.
Direction signal switch.
Electronic switch.
Leaf type micro switch.
Pressure switch
Push-button turn signal switch.
Switch-actuating mechanism for seaming machine. H. Hacklander. 2,657,302, Oct. 27.
Switchboard plug. J. J. Ziemianin, Jr. 2,657,369, Oct. 27.
System for automatically ticketing telephone calls. J. B. Retallack. 2,657,268, Oct. 27.
Target projector, Variable throwing angle. G. J. Puth. 2,656,831, Oct. 27.
Teeth cleaning unit. M. Boulicault. 2,656,843, Oct. 27.
Telephone support and switch control mechanism. C. W. Le Noir. 2,657,278, Oct. 27.
Telephone system. R. E. Hersey. 2,657,274, Oct. 27.
Telephone system coin control adapter and connector. W. W. Pharis. 2,657,267, Oct. 27.
Television receiver adjusting system. L. M. Kay. 2,657,263, Oct. 27.
Tertiary-aminoalkyl 4-alkylamino-2-alkoxy-benzoates and their synthesis. R. O. Clinton and S. C. Laskowski. 2,657,209, Oct. 27.
Testing apparatus for gears. C. W. Mahr. 2,656,614, Oct. 27.
Testing arrangement for circuit interrupting devices. R. C. Van Sickle. 2,657,354, Oct. 27.
Tetraethyl lead, Making. N. Whitman. 2,657,225, Oct. 27.
Tetramethylethylene, Manufacture of. J. B. Davidson. 2,657,245, Oct. 27.
Textile spinning and analogous machinery. J. J. Haythornthwaite. 2,656,989, Oct. 27.
Thermal element for switch mechanisms. R. G. Page. 2,657,292, Oct. 27.
Thermostatic control device for water heaters. M. J. Caparone. 2,656,984, Oct. 27.
Thionated indophenol products and processes. E. D. Robinson and D. F. Mason. 2,657,112, Oct. 27.
Thiophosphate esters, Manufacture of. S. F. Orochena. 2,657,229, Oct. 27.
Thiosemicarbazides, Preparation of. J. Klarer and R. Behnisch. 2,657,234, Oct. 27.
Thread advancing reel. S. C. Nelson. 2,656,584, Oct. 27.
Thread cutting taps, Making. L. W. Bedker. 2,656,740, Oct. 27.
Thread gripper. M. Bär. 2,656,583, Oct. 27.
Therapeutic solution of calcium lactate and calcium glycerophosphate. G. Sattler, Jr. 2,657,172, Oct. 27.
Time control means for electrically heated cooking receptacle. E. C. Sullivan. 2,657,300, Oct. 27.
Tobacco spreader for cigarette making machines. R. Fellmann. 2,656,840, Oct. 27.
Tool: *See*—
Adjustable lever actuated tire bead breaking tool.
Carpenter's layout tool.
Flexible band turning tool.
Hog ring clinching tool.
Machine tool.
Watchmaker's tool.
Tool-carrier stop. D. H. Montgomery. 2,656,753, Oct. 27.
Tool holding collet for boring bar assemblies. R. W. Boyd, Jr. 2,657,066, Oct. 27.
Tool kit. G. A. Timmons. 2,656,869, Oct. 27.
Tool slide arrangement. R. Kurzweil. 2,656,752, Oct. 27.
Top lift attachment. E. H. Hoffmann. 2,656,621, Oct. 27.
Toy, Animated jumping. E. F. Wideman. 2,656,646, Oct. 27.
Toy, Educational. F. R. Composto. 2,656,617, Oct. 27.
Toy, Educational. I. P. Pescatori. 2,656,618, Oct. 27.
Toy horse. M. S. Conley. 2,657,053, Oct. 27.
Toy, Rockable wheeled figure. B. Goldfarb. 2,656,645, Oct. 27.
Toy, Walking submersible. D. B. Wittry. 2,656,644, Oct. 27.
Toy with spinning element, Figure. M. A. Brosseit. 2,656,643, Oct. 27.
Tractor attached grub hoe. D. R. and M. E. Mohn. 2,656,777, Oct. 27.
Tractor borne planter attachment. H. V. Hansen and J. T. Murphy. 2,656,801, Oct. 27.
Tractor lift and hitch structure. J. W. and L. M. Cox. 2,656,776, Oct. 27.
Tractor mounted stalk shredding device. W. E. Hines. 2,656,662, Oct. 27.
Tractor mounted sweep rake. A. D. Stauffer. 2,656,663, Oct. 27.
Traffic signal. M. J. Downey. 2,656,815, Oct. 27.
Transconductor employing line type field controlled semiconductor. O. M. Stuetzer. 2,657,345, Oct. 27.
Transporting and distributing fertilizers on fields, Means for. G. Friedmann. 2,656,648, Oct. 27.
Trap: *See*—
Vermin-trap.
Traveling line load indicator. L. Q. Webber. 2,656,719, Oct. 27.
Traveling wave amplifier tube. K. S. Knol and A. van der Ziel. 2,657,328, Oct. 27.
Traveling wave tube. R. L. Wathen. 2,657,329, Oct. 27.
Traveling wave tube mixing apparatus. K. S. Knol and A. van der Ziel. 2,657,305, Oct. 27.
Tray and cover, Egg. J. R. Grant. 2,656,945, Oct. 27.
Treatment for reducing the pH of furnace blacks. L. R. Sperberg. 2,657,117, Oct. 27.
Treatment of industrial waters. W. W. Robinson, Jr. 2,657,178–9, Oct. 27.
Treatment of solid substances at higher temperatures under action of gases. H. Wendeborn. 2,657,030, Oct. 27.
Tree shaking mechanism. J. E. Avansino. 2,656,669, Oct. 27.
Trolley wire contact device. J. L. McGlothlen. 2,657,284, Oct. 27.
Tufting machine for producing ornamental designs. J. Montgomery. 2,656,803, Oct. 27.
Tunable magnetron. J. W. West. 2,657,334, Oct. 27.
Tungsten-chromium-alumina metal ceramics. L. A. Conant and D. M. Gillies. 2,656,596, Oct. 27.
Tube: *See*—
Traveling wave amplifier tube.
Traveling wave tube.
Turbine or like rotor. J. Atkinson. 2,657,008, Oct. 27.
Twisted plug-cord connector. F. C. Cooke. 2,657,368, Oct. 27.
2,4-diamino-5-aryloxy-pyrimidines. G. H. Hitchings, P. B. Russell, and E. A. Falco. 2,657,206, Oct. 27.
2,6-di-tertiary alkyl quinones and process of preparing same. C. F. H. Allen and D. M. Burness. 2,657,222, Oct. 27.
Two-way plow attachment. H. Dotson. 2,656,767, Oct. 27.
Type-positioning block assembly. C. F. Tilghman. 2,656,791, Oct. 27.
Ultra short wave generator having a wide bank of oscillation frequencies. W. Kleen, O. Dohler, and H. Huber. 2,657,314, Oct. 27.
Ultrasonic beam shaping device. J. C. Smack. 2,657,319, Oct. 27.
Underground prospecting system. C. A. Donaldson. 2,657,380, Oct. 27.
Unidirectional, rotary variable delivery fluid pump. L. M. Garner and E. S. McConnohie. 2,656,796, Oct. 27.
Utility sick-call case. R. G. Reising. 2,656,915, Oct. 27.
Vacuum cleaner nozzle, Dual purpose. L. C. Smith. 2,656,560, Oct. 27.
Valve: *See*—
By-pass thermostatic valve.
Flow control valve.
Fuel pump delivery valve.
Gas control valve.
Pilot operated free return resistance valve.
Pressure cooker valve.
Valve cooling assembly, Exhaust. C. W. Galuska. 2,656,826, Oct. 27.
Valve for rotatable receptacles, Centrifugally operated. T. R. Smith. 2,656,700, Oct. 27.
Valve spring lifter. E. M. Arthur. 2,656,597, Oct. 27.
Valve structure, Thermostatic. J. H. Grayson. 2,656,983, Oct. 27.
Valve with manual reset means, Excess flow check. O. L. Garretson. 2,656,850, Oct. 27.
Valve with stem sealing arrangement. F. H. Van Nest. 2,657,005, Oct. 27.
Valve with twistable sleeve. J. A. Lovington. 2,657,004, Oct. 27.
Variable frequency response galvanometer. A. D. Richardson. 2,657,358, Oct. 27.
Variable inductance and mounting means therefor. A. G. Lazzery. 2,657,365, Oct. 27.
Variable stroke power actuator. G. J. Peterson. 2,656,681, Oct. 27.
Vat dyestuff. J. Koch and W. Kern. 2,657,221, Oct. 27.

Vehicle: *See*—
Collapsible wheeled vehicle.
Vehicle with intercushioned banking and vertical oscillation suspension for the superstructure. J. Kolbe. 2,657,067, Oct. 27.
Veneer joining apparatus. E. L. Croston. 2,657,160, Oct. 27.
Ventilation of passenger compartment of automotive busses. H. E. Simi. 2,656,779, Oct. 27.
Vermin-trap. G. F. J. Dandridge. 2,656,641, Oct. 27.
Vise, Power-operated. P. S. Becker. 2,656,820, Oct. 27.
Visnagin from chellol and new compositions of matter, Preparation of. T. A. Geissman. 2,657,218, Oct. 27.
Vitamin A acetals. O. Isler, N. C. Hindley, and P. Zeller. 2,657,219, Oct. 27.
Vulcanizing machine. G. E. Apel and D. F. Collins. 2,656,565, Oct. 27.
Walking aid. W. C. Robb. 2,656,874, Oct. 27.
Walking jack. J. F. Joy. 2,657,028, Oct. 27.
Wallboard adhesive and method. W. P. Ericks. 2,657,163, Oct. 27.
Warning device for vehicles. J. P. Zappia. 2,657,379, Oct. 27.
Washer and extractor with resilient drive connection, Combined. B. W. Chapin. 2,656,699, Oct. 27.
Washing machine. B. W. Chapin. 2,656,702, Oct. 27.
Watchcase, Waterproof. W. Bondy. 2,656,674, Oct. 27.
Watchmaker's tool. N. F. Slack. 2,656,741, Oct. 27.
Water sealing device for automotive wheels. A. J. Kayser. 2,657,104, Oct. 27.
Water system. C. O. Messing. 2,656,795, Oct. 27.
Weatherproof enclosure for electrical devices. R. R. McGee. 2,656,948, Oct. 27.
Wheel: *See*—
Grinding wheel.
Wheel mirror assembly. J. P. Carr. 2,656,762, Oct. 27.
Wind controlled feed trough. T. Meier. 2,656,819, Oct. 27.
Window fan support. A. W. Holstein. 2,656,974, Oct. 27.
Window lock. R. L. Sweet. 2,657,086, Oct. 27.
Wrapping and sealing machine. G. R. Bartle. 2,656,657, Oct. 27.
Wrench: *See*—
Sectional box wrench.
Yarn carrier of knitting machines. C. G. Newton. 2,656,693, Oct. 27.
Yarns, Making. A. F. Burkardt. 2,656,671, Oct. 27.

CLASSIFICATION OF PATENTS

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NOTE.—First number = class, second number = subclass, third number = patent number.

1— 3: 2,656,537
187: 2,656,538
2,656,539
2— 69.5: 2,656,540
96: 2,656,541
132: 2,656,542
146: 2,656,543
158: 2,656,544
3— 12: 2,656,545
12.4: 2,656,546
5— 13: 2,656,547
59: 2,656,548
91: 2,656,549
295: 2,656,550
8— 37: 2,657,112
11— 2: 2,656,551
12— 12.5: 2,656,552
38: 2,656,553
51: 2,656,554
85.1: 2,656,555
127: 2,656,556
13— 31: 2,657,247
15— 97: 2,656,557
136: 2,656,558
180: 2,656,559
373: 2,656,560
16— 104: 2,656,561
128.1: 2,656,562
141: 2,656,563
200: 2,656,564
18— 6: 2,656,565
13: 2,656,566
30: 2,656,567
2,656,568
2,656,569
44: 2,656,570
57: 2,656,571
19— 76: 2,656,572
159: 2,656,573
20— 55: 2,656,574
22— 10: 2,656,575
70: 2,656,576
188: 2,657,113
23— 14: 2,657,114
143: 2,657,115
163: 2,657,116
209.6: 2,657,117
209.9: 2,657,118
226: 2,657,119
277: 2,657,120
288: 2,657,121
301: 2,657,122
24— 73: 2,656,577
108: 2,656,578
205.11: 2,656,579
239: 2,656,580
25— 131: 2,656,581
28— 28: 2,656,582
49: 2,656,583
71.6: 2,656,584
76: 2,656,585
80: 2,656,586
29— 50: 2,656,587
61: 2,656,588
64: 2,656,589
95.1: 2,656,590
105: 2,656,591
148: 2,656,592
2,656,593
156: 2,656,594
182.2: 2,656,595
182.5: 2,656,596
221: 2,656,597
30— 5.5: 2,656,598
60.5: 2,656,599
123: 2,656,600
305: 2,656,601
31— 25: 2,656,602
32— 32: 2,656,603
33— 23: 2,656,604
41: 2,656,605
69: 2,656,606
84: 2,656,607
85: 2,656,608
94: 2,656,609
126.5: 2,656,610
126.7: 2,656,611
33— 174: 2,656,612
178: 2,656,613
179.5: 2,656,614
180: 2,656,615
203.18: Re.23,730
205.5: 2,656,616
35— 9: 2,656,617
2,656,618
48: 2,656,619
36— 17: 2,656,620
42: 2,656,621
68: 2,656,622
37— 12: 2,656,623
38— 22: 2,656,624
2,656,625
34: 2,656,626
41: 2,656,627
40— 10.5: 2,656,628
104: 2,656,629
125: 2,656,630
156: 2,656,631
2,656,632
41— 8: 2,656,633
28: 2,656,634
42— 68: 2,656,635
69: 2,656,636
79: 2,656,637
2,656,638
43— 22: 2,656,639
56: 2,656,640
83: 2,656,641
100: 2,656,642
46— 47: 2,656,643
92: 2,656,644
107: 2,656,645
134: 2,656,646
156: 2,656,647
47— 1: 2,656,648
2,656,649
59: P.P.1,224
61: P.P.1,225
48— 180: 2,657,123
197: 2,657,124
49— 2: 2,656,650
51— 101: 2,656,651
164: 2,656,652
165: 2,656,653
195: 2,656,654
216: 2,656,655
53— 35: 2,656,656
45: 2,656,657
94: 2,656,658
122: 2,656,659
55— 84: 2,656,660
106: 2,656,661
118: 2,656,662
56— 27: 2,656,663
2,656,664
28: 2,656,665
111: 2,656,666
126: 2,656,667
209: 2,656,668
328: 2,656,669
364: 2,656,670
57— 156: 2,656,671
58—21.13: 2,656,672
57.5: 2,656,673
90: 2,656,674
60— 13: 2,656,675
35.6: 2,656,676
39.17: 2,656,677
52: 2,656,679
54.6: 2,656,680
97: 2,656,681
61— 12: 2,656,682
42: 2,656,683
63: 2,656,684
62— 3: 2,656,685
4: 2,656,686
91.5: 2,656,687
99: 2,656,688
106: 2,656,689
66— 8: 2,656,690
82: 2,656,691
126: 2,656,692
2,656,693
127: 2,656,694
68— 12: 2,656,695
18: 2,656,696
19: 2,656,697
2,656,698
23: 2,656,699
2,656,700
39: 2,656,701
139: Re.23,727
154: 2,656,702
198: 2,656,703
70— 128: 2,656,704
133: 2,656,705
232: 2,656,706
352: 2,656,707
464: 2,656,708
71— 2.3: 2,657,125
2,657,126
72— 1: 2,656,709
73— 1: 2,656,710
12: 2,656,711
16: 2,656,712
66: 2,656,713
67: 2,656,714
80: 2,656,715
81: 2,656,716
88: 2,656,717
90: 2,656,718
143: 2,656,719
379: 2,656,720
389: 2,656,721
398: 2,656,722
418: 2,656,723
422: 2,656,724
2,656,725
74— 5.41: 2,656,726
7: 2,656,727
15.86: 2,656,728
54: 2,656,729
191: Re.23,728
230.8: 2,656,730
393: 2,656,731
469: 2,656,732
472: 2,656,733
497: 2,656,734
516: 2,656,735
752: 2,656,736
798: 2,656,737
75— 5: 2,657,127
2,657,128
2,657,129
128: 2,657,130
76— 37: 2,656,738
101: 2,656,739
2,656,740
77— 26: 2,656,741
58: 2,656,742
78— 5: 2,656,743
22: 2,656,744
42: 2,656,745
81— 15: 2,656,746
2,656,747
17.2: 2,656,748
64: 2,656,749
121: 2,656,750
186: 2,656,751
82— 24: 2,656,752
2,656,753
28: 2,656,754
84— 1.14: 2,656,755
88— 14: 2,656,756
2,656,757
29: 2,656,758
39: 2,656,759
40: 2,656,760
57: 2,656,761
74: 2,656,762
80: 2,656,763
93: 2,656,764
89— 36: 2,656,765
90— 13.5: 2,656,766
92— 6: 2,657,131
21: 2,657,132
43: 2,656,768
93— 35: 2,656,769
37: 2,656,770
95— 5: 2,657,133
6: 2,657,134
95— 7: 2,657,135
2,657,136
71: 2,656,771
72: 2,656,772
88: 2,657,137
2,657,138
2,657,139
2,657,140
2,657,141
90.5: 2,656,773
97— 29: 2,656,767
2,656,774
46.31: 2,656,775
46.35: 2,656,776
47.37: 2,656,777
198.1: 2,656,778
98— 10: 2,656,779
40: 2,656,780
2,656,781
2,656,782
56: 2,656,783
118: 2,656,784
99— 63: 2,657,142
91: 2,657,143
180: 2,657,144
257: 2,656,785
100— 88: 2,656,786
101— 93: 2,656,787
95: 2,656,788
350: 2,656,789
401.3: 2,656,790
402: 1,656,791
102— 8: 2,656,792
80: 2,656,793
103— 25: 2,656,794
39: 2,656,795
120: 2,656,796
106— 14: 2,657,145
54: 2,657,146
123: 2,657,147
153: 2,657,148
308: 2,657,149
107— 8: 2,656,797
15: 2,656,798
110— 101: 2,656,799
111— 5: 2,656,800
59: 2,656,801
112— 61: 2,656,802
79: 2,656,803
222: 2,656,804
258: 2,656,805
113— 12: 2,656,806
114: 2,656,807
118: 2,656,808
114— 151: 2,656,809
201: 2,656,810
208: 2,656,811
115— 17: 2,656,812
18: 2,656,813
2,656,814
116— 63: 2,656,815
67: 2,656,816
114: 2,656,817
115.5: 2,656,818
117— 38: 2,657,150
47: 2,657,151
53: 2,657,152
54: 2,657,153
2,657,154
84: 2,657,155
119— 51: 2,656,819
121— 38: 2,656,820
122— 33: 2,656,821
41: 2,656,822
441: 2,656,823
123— 25: 2,656,824
41.13: 2,656,825
41.17: 2,656,826
117: 2,656,827
139: 2,656,828
169: 2,657,248
179: 2,656,829
191: 2,656,830
124— 9: 2,656,831
125— 21: 2,656,832
126— 85: 2,656,833
128— 80: 2,656,834
128— 214: 2,656,835
218: 2,656,836
222: 2,656,837
283: 2,656,838
422: 2,656,839
131— 109: 2,656,840
140: 2,656,841
132— 73: 2,656,842
84: 2,656,843
135— 1: 2,656,844
136— 166: 2,657,249
137— 93: 2,656,845
108: 2,656,846
112: 2,656,847
118: 2,656,848
399: 2,656,849
460: 2,656,850
512.1: 2,656,851
523: 2,656,852
551: 2,656,853
620: 2,656,854
2,656,855
702: 2,656,856
138— 68: 2,656,857
139— 241: 2,656,858
140—128.2: 2,656,859
143— 6: 2,656,860
144— 1: 2,656,861
93: 2,656,862
136: 2,656,863
303: 2,656,864
145— 75: 2,656,865
146— 15: 2,656,866
55: 2,656,867
107: 2,656,868
148— 6.15: 2,657,156
150— 12: 2,656,869
28: 2,656,870
40: 2,656,871
153— 46: 2,656,872
154— 1.7: 2,656,873
46.8: 2,657,157
54: 2,657,158
95: 2,657,159
116: 2,657,160
2,657,161
139: 2,657,162
141: 2,657,163
155— 22: 2,656,874
37: 2,656,875
45: 2,656,876
47: 2,656,877
54: 2,656,878
125: 2,656,879
181: 2,656,880
194: 2,656,881
157— 1.26: 2,656,882
158— 28: 2,656,883
2,656,884
159— 11: 2,656,885
160— 348: 2,656,886
164— 33: 2,656,887
51: 2,656,888
60: 2,656,889
166— 4: 2,656,890
13: 2,656,891
167— 30: 2,657,164
2,657,165
2,657,166
2,657,167
2,657,168
33: 2,657,169
65: 2,657,170
2,657,171
68: 2,657,172
170—135.4: 2,656,892
174— 52: 2,657,250
65: 2,657,251
88: 2,657,252
178— 5.2: 2,657,253
5.4: 2,657,254
2,657,255
2,657,256
2,657,257
6.6: 2,657,258
7.1: 2,657,259
17: 2,657,260
178— 23: 2,657,261
69: 2,657,262
69.5: 2,657,263
179— 1: 2,657,264
2,657,265
2.5: 2,657,266
6.3: 2,657,267
7.1: 2,657,268
15: 2,657,269
18: 2,657,270
2,657,271
2,657,272
2,657,273
27: 2,657,274
27.54: 2,657,275
100.1: 2,657,276
100.2: 2,657,277
140: 2,657,278
170: 2,657,279
2,657,280
171: 2,657,281
2,657,282
180— 9.1: 2,656,893
19: 2,656,894
183— 2.7: 2,656,895
2,656,896
37: 2,656,897
184— 3: 2,656,898
55: 2,656,899
188— 107: 2,656,900
207: 2,656,901
189— 34: 2,656,902
82: 2,656,903
192— 17: 2,656,904
85: 2,656,905
120: 2,656,906
193— 25: 2,656,907
194— 1: 2,656,908
195— 36: 2,657,173
94: 2,657,174
196— 24: 2,657,175
197— 153: 2,656,909
198— 30: 2,656,910
31: 2,656,911
200— 38: 2,657,283
51.07: 2,657,284
52: 2,657,285
61.27: 2,657,286
61.34: 2,657,287
67: 2,657,288
83: 2,657,289
115.5: 2,657,290
116: 2,657,291
2,657,292
122: 2,657,293
123: 2,657,294
201— 48: 2,657,295
62: 2,657,296
204— 40: 2,657,176
211: 2,657,177
5: 2,656,912
206— 7: 2,656,913
2,656,914
19: 2,656,915
57: 2,656,916
79: 2,656,917
2,656,918
80: 2,656,919
209— 20: 2,656,920
72: 2,656,921
100: 2,656,922
111: 2,656,923
508: 2,656,924
210— 23: 2,657,178
2,657,179
52.5: 2,656,925
57: 2,656,926
152: 2,656,927
158: 2,656,928
169: 2,656,929
195: 2,656,930
211— 60: 2,656,931
86: 2,656,932
88: 2,656,933
103: 2,656,934
213— 32: 2,656,935
34: 2,656,936

213— 34: 2,656,937
221: 2,656,938
223: 2,656,939
214— 16.1: 2,656,940
35: 2,656,941
515: 2,656,942
655: 2,656,943
216— 2: 2,656,944
217— 26.5: 2,656,945
219— 10: 2,657,298
32: 2,657,297
43: 2,657,299
44: 2,657,300
47: 2,657,301
2,657,302
220— 16: 2,656,946
21: 2,656,947
29: 2,656,948
64: 2,656,949
89: 2,656,950
222— 9: 2,656,951
161: 2,656,952
390: 2,656,953
223— 90: 2,656,954
98: 2,656,955
99: 2,656,956
120: 2,656,957
224— 5: 2,656,958
45: 2,656,959
2,656,960
226— 2: 2,656,961
2,656,962
71: 2,656,963
75: 2,656,964
88: 2,656,965
97: 2,656,966
227— 39: 2,656,967
228— 1: 2,656,968
229— 16: Re.23,729
21: 2,656,969
230— 29: 2,656,970
114: 2,656,971
138: 2,656,972
209: 2,656,973
259: 2,656,974
235—60.27: 2,656,975
60.31: 2,656,976
61: 2,656,977
79.5: 2,656,978
98: 2,656,979
145: 2,656,980
236— 12: 2,656,981
34.5: 2,656,982
48: 2,656,983
102: 2,656,984

240— 6.41: 2,657,303
241— 88: 2,656,985
226: 2,656,986
266: 2,656,987
275: 2,656,988
242— 43.5: 2,656,989
72: 2,656,990
77: 2,656,991
84.1: 2,656,992
84.5: 2,656,993
244— 64: 2,656,994
103: 2,656,995
149: 2,656,996
248— 54: 2,656,997
68: 2,656,998
2,656,999
117.6: 2,657,000
147: 2,657,001
206: 2,657,002
249— 58: 2,657,003
250— 13: 2,657,304
20: 2,657,305
2,657,306
27: 2,657,307
2,657,308
2,657,309
33: 2,657,310
2,657,311
33.53: 2,657,312
33.57: 2,657,313
36: 2,657,314
83.6: 2,657,315
2,657,316
251— 5: 2,657,004
32: 2,657,005
45: 2,657,006
166: 2,657,007
252— 42: 2,657,180
73: 2,657,181
186: 2,657,182
313: 2,657,183
465: 2,657,184
253—39.15: 2,657,008
254— 29: 2,657,010
93: 2,657,009
173: 2,657,011
190: 2,657,012
255— 1.4: 2,657,013
23: 2,657,014
24: 2,657,015
25: 2,657,016
51: 2,657,017
257— 137: 2,657,018
250: 2,657,019
255: 2,657,020

259— 1: 2,657,021
6: 2,657,022
54: 2,657,023
260— 17.2: 2,657,185
23: 2,657,186
30.8: 2,657,187
31.2: 2,657,188
33.8: 2,657,189
41.5: 2,657,190
45.5: 2,657,191
67: 2,657,192
2,657,193
75: 2,657,194
2,657,195
78.4: 2,657,196
78.5: 2,657,197
79.1: 2,657,198
80.7: 2,657,199
85.5: 2,657,200
91.3: 2,657,201
158: 2,657,202
162: 2,657,203
176: 2,657,204
185: 2,657,205
256.4: 2,657,206
270: 2,657,207
293: 2,657,208
294.3: 2,657,209
2,657,210
294.7: 2,657,211
295: 2,657,212
314.5: 2,657,213
324: 2,657,214
326.3: 2,657,215
327: 2,657,216
329: 2,657,217
345.2: 2,657,218
345.9: 2,657,219
347.8: 2,657,220
368: 2,657,221
396: 2,657,222
397.5: 2,657,223
425: 2,657,224
437: 2,657,225
448.8: 2,657,226
450: 2,657,227
456: 2,657,228
461: 2,657,229
501: 2,657,230
516: 2,657,231
529: 2,657,232
544: 2,657,233
552: 2,657,234
2,657,235
576: 2,657,236

260— 583: 2,657,237
2,657,238
2,657,239
2,657,240
611: 2,657,241
635: 2,657,242
641: 2,657,243
651: 2,657,244
683.15: 2,657,245
2,657,246
261— 76: 2,657,024
84: 2,657,025
92: 2,657,026
2,657,027
262— 1: 2,657,028
263— 2: 2,657,029
7: 2,657,030
8: 2,657,031
2,657,032
33: 2,657,033
52: 2,657,034
264— 17: 2,657,035
266— 2: 2,657,036
267— 1: 2,657,037
2,657,038
9: 2,657,039
2,657,040
2,657,041
28: 2,657,042
270— 55: 2,657,043
61: 2,657,044
271— 2.1: 2,657,045
2.18: 2,657,047
2.5: 2,657,046
10: 2,657,048
14: 2,657,049
44: 2,657,050
59: 2,657,051
79: 2,657,052
272— 1: 2,657,053
46: 2,657,054
57: 2,657,055
273— 56: 2,657,056
101: 2,657,057
103: 2,657,058
144: 2,657,059
274— 10: 2,657,060
2,657,061
11: 2,657,062
279— 1: 2,657,063
16: 2,657,064
2,657,065
46: 2,657,066
118: 2,657,068
280— 40: 2,657,069

280— 96.2: 2,657,070
112: 2,657,067
281— 19: 2,657,071
20: 2,657,072
284— 17: 2,657,073
285— 90: 2,657,074
2,657,075
91: 2,657,076
122: 2,657,077
152: 2,657,078
164: 2,657,079
286— 6: 2,657,080
287— 52: 2,657,081
52.04: 2,657,082
53: 2,657,083
103: 2,657,084
292— 169: 2,657,085
175: 2,657,086
296— 21: 2,657,087
24: 2,657,088
44: 2,657,089
299— 24: 2,657,090
31: 2,657,091
34: 2,657,092
42: 2,657,093
58: 2,657,094
63: 2,657,095
75: 2,657,096
86: 2,657,097
131: 2,657,098
301— 37: 2,657,099
302— 29: 2,657,100
307— 10: 2,657,317
88: 2,657,318
308— 4: 2,657,101
38: 2,657,102
181: 2,657,103
187.1: 2,657,104
196: 2,657,105
217: 2,657,106
310— 8.3: 2,657,319
9.7: 2,657,320
30: 2,657,321
63: 2,657,322
95: 2,657,323
211: 2,657,324
311— 21: 2,657,107
46: 2,657,108
312— 78: 2,657,109
274: 2,657,110
307: 2,657,111
313— 212: 2,657,325
354: 2,657,326
314— 61: 2,657,327
315— 3: 2,657,328

315— 6: 2,657,329
21: 2,657,330
26: 2,657,331
27: 2,657,332
2,657,333
40: 2,657,334
195: 2,657,335
209: 2,657,336
262: 2,657,337
295: 2,657,338
317— 3: 2,657,339
88: 2,657,340
132: 2,657,341
159: 2,657,342
234: 2,657,343
2,657,344
235: 2,657,345
237: 2,657,346
318— 19: 2,657,347
28: 2,657,348
2,657,349
31: 2,657,350
320— 28: 2,657,351
323— 75: 2,657,352
2,657,353
324— 28: 2,657,354
37: 2,657,355
55: 2,657,356
114: 2,657,357
125: 2,657,358
332— 19: 2,657,359
52: 2,657,360
333— 10: 2,657,361
32: 2,657,362
70: 2,657,363
95: 2,657,364
336— 142: 2,657,365
339— 45: 2,657,366
99: 2,657,367
148: 2,657,368
183: 2,657,369
202: 2,657,370
250: 2,657,371
264: 2,657,372
340— 15: 2,657,373
17: 2,657,374
40: 2,657,375
213: 2,657,376
345: 2,657,377
2,657,378
366: 2,657,379
343— 13: 2,657,380
108: 2,657,381

CLASSIFICATION OF DESIGNS

D 3—25: Des. 170,681
Des. 170,723
26: Des. 170,689
Des. 170,708
Des. 170,731
D 4— 2: Des. 170,727
D 9— 2: Des. 170,680
Des. 170,734
D10— 7: Des. 170,724
9: Des. 170,725
D13— 1: Des. 170,682

D13— 1: Des. 170,707
Des. 170,736
Des. 170,737
D14— 3: Des. 170,692
Des. 170,693
6: Des. 170,683
Des. 170,684
Des. 170,685
D15— 8: Des. 170,704
D16— 2: Des. 170,713
D20— 2: Des. 170,694

D20— 2: Des. 170,721
D26— 5: Des. 170,709
D29— 1: Des. 170,717
20: Des. 170,690
D33—19: Des. 170,705
D34— 2: Des. 170,714
5: Des. 170,677
11: Des. 170,706
D44—10: Des. 170,679
Des. 170,715
Des. 170,735

D44—15: Des. 170,712
29: Des. 170,676
D45— 4: Des. 170,698
Des. 170,700
Des. 170,702
Des. 170,719
Des. 170,720
10: Des. 170,722
16: Des. 170,696
Des. 170,697
Des. 170,699

D45—16: Des. 170,701
Des. 170,703
D48—31: Des. 170,674
D50— 5: Des. 170,726
D54— 2: Des. 170,733
16: Des. 170,688
D57— 1: Des. 170,729
Des. 170,730
D58—13: Des. 170,728
17: Des. 170,695
D61— 1: Des. 170,686

D61— 1: Des. 170,687
D67— 4: Des. 170,678
D74—24: Des. 170,675
D80— 1: Des. 170,732
D81—10: Des. 170,718
D85— 6: Des. 170,716
D90—20: Des. 170,691
Des. 170,710
Des. 170,711

U. S. GOVERNMENT PRINTING OFFICE: 0—1953

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE BENDER ET AL.

No. 5951. Decided April 15, 1953

[203 F.2d 760; 97 USPQ 341]

PATENTABILITY—PARTICULAR SUBJECT MATTER—WHEEL ALIGNMENT GAUGE.

Certain claims to a magnetically mounted wheel alignment gauge *Held* properly rejected as unpatentable over the cited prior art.

APPEAL from Patent Office. Serial No. 694,176.

AFFIRMED.

C. G. Stratton (*Robert I. Dennison* of counsel) for appellants.

E. L. Reynolds (*S. W. Cochran* of counsel) for Commissioner of Patents.

COLE, *J.*:

The application on appeal presents for our consideration alleged inventive means for measuring the alignment and disposition of steerable vehicle wheels whereby camber, caster, and kingpin inclination of such wheels is gauged by a device magnetically attached to the machined end face of the wheel hub.

Camber may be defined as that amount in inches or degrees that each wheel is tilted outward at the top. Caster is the amount in degrees of the backward tilt of the axle and kingpin. Kingpin inclination is the amount in degrees that the tops of the kingpins are inclined toward the center of the vehicle.

Three claims are in issue. Claim 19 is drawn to the wheel testing device per se while the others, claims 13 and 21, have relation to the gauge in combination with the machined face of the hub of a kingpin mounted wheel. Claims 1, 2, 8, 11, 12, 15, 16, 17, and 20 have been allowed by the Patent Office.

The Board of Appeals affirmed the decision of the Primary Examiner in rejecting all the claims on appeal, holding that the reference patents constituting the prior art (Peters—2,292,968, issued August 11, 1942, and Graham—2,308,808, issued January 19, 1943) presented sufficient justification therefor.

Claims 19 and 21 read as follows:

19. A gauge for reading kingpin inclination as well as the camber and caster of a kingpin-mounted wheel having a hub that is provided with an annular outwardly directed and accurately machined vertical face, said gauge comprising a body provided with kingpin-, camber-, and caster-reading means, and a permanent magnet carried by an end of said body and having a flat and vertical outer face, said face being adapted to magnetically engage said face of a wheel hub to support the gauge in its entirety from the wheel and hold said reading means on the body disposed outwardly of the wheel and readable from a position at the side of the wheel, said face of the magnet being dimensioned to span across at least two spaced portions of the mentioned hub face, whereby the face of the magnet is slidable and rotational relative to the hub face and the gauge is thereby slidably and rotationally mounted on the wheel hub to enable adjustment of said gauge during the readings aforementioned.

21. The combination with a spindle-mounted wheel having a hub provided with an outer end face that is machined normal to the axis of said spindle, of a wheel-gauging device comprising a gauge-mounting body and a magnet fixedly mounted in said body and having at least one flat end pole face, said latter face magnetically engaging said end face of the wheel hub to secure said gauging device to the wheel and thereby supporting said gauging device in its entirety from the hub.

It is readily observed, therefore, that the principal objective of the present applicants is to provide a device for obtaining readings of the camber, caster, and kingpin inclination of a vehicle wheel. If to mount magnetically such a testing device as the claims discuss on the end face of a wheel hub is patentable, the petitioners should prevail.

The case is free from any dispute between the parties as to legal principles applicable to the controversy. It is primarily a question of fact. During the oral argument, counsel left with the court one of the devices in question.

Before proceeding further, it is well to note, by way of simplification, that the applicants are disclosing a measuring device which is attached by means of a permanent magnet to the end face of a wheel hub, the magnet having a flat surface to accomplish said attachment, and the wheel hub having an accurately machined outer face. The engagement of gauge and wheel hub is a sliding and rotational arrangement, enabling adjustment during actual readings.

An exceptionally clear and understandable analysis of the claims in question is found in the respective opinions of the Primary Examiner and the Board of Appeals. It is well to read much of it at this juncture, omitting reference numerals when applicable.

Quoting from the decision of the Primary Examiner, it is said:

The patent to Peters, Serial No. 2,292,968, shows a wheel gauge for measuring camber, caster, and king-pin inclination as well as other parts to be measured comprising a projection tube which is mounted on any surface to be tested by permanent magnets. In Figures 21 and 22 Peters shows a modification of this structure which includes two adjustable levels in planes at right angles to each other mounted on the tube. These levels also give an indication of the camber, caster, and king-pin inclination when the gauge is mounted on a vehicle wheel. Peters contemplates applying his gauge magnetically against any part of the vehicle frame whose relative

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inclination he desires to check, including the wheels, brake drums, and frame.

The Graham patent, Serial No. 2,308,808 shows a wheel alignment gauge for measuring camber and caster. Usually the gauge is applied against the steering knuckle assembly, but it may be applied against the wheel hub. As will be shown later this can only be against the machined end face of the hub.

* * * * * * *

Claim 21 is the broadest claim. Applying the Peters patent to this claim it is seen that Peters shows the combination with a spindle mounted wheel having a hub, of a wheel gauging device comprising a gauge-mounting body and magnetic clamps having leveled ends adjustably mounted on body [gauge-mounting body] and having at least one flat end pole face, said latter face magnetically engaging the part to be tested (for instance, the wheel) to secure the gauging device to the wheel and thereby supporting said gauging device in its entirety from the wheel. The claim distinguishes over Peters taken alone only in the fact that the gauging device is applied against the hub rather than the wheel. The distinction that the magnet is "in" the gauge-mounting body rather than "on" it is not considered a patentable distinction. It is the Examiner's position that no invention would be involved in supporting the Peters gauge shown in Figures 21 and 22 from the machined end of the wheel hub rather than the wheel itself, particularly in view of Graham, who applies his gauge against the end of the wheel hub. That Graham applies his gauge to the end of the hub rather than a side thereof is clear * * * [In the Graham patent, the inventor states that "if camber alone were to be taken it might even be taken from the wheel hub by bringing the contact points thereagainst. Such camber reading, however, would be indicated by the caster spirit level 22"]. The camber of a wheel is normally read on a level which lies in a plane perpendicular to the plane of the wheel. If Graham's level 22 is to indicate the camber as he states, his arm 14 must be positioned in a plane perpendicular to the plane of the wheel and thus the only portion of the hub to which the wheel could be applied would be the end face. As Peters shows that magnetic and mechanical engaging means are equivalents in this art, it is believed he would be entitled to engage his magnetic means against the hub.

Claim 13 adds to claim 21 the features that the gauge is "for reading kingpin inclination and camber and caster of the wheel" (the Peters gauge is used to read these characteristics also), that the magnet is a "permanent" magnet (so are Peters' magnets) and also adds the clause "whereby the gauge is slidingly and rotationally mounted on the wheel to enable adjustment thereof during the readings aforementioned." This last feature is characteristic of any magnetic mounting having flat engaging surfaces such as elements 31 [magnetic clamping ends leveled substantially parallel with the axis of the tube] of Peters and the Peters gauge would be slidingly and rotationally mounted on any object to which it is applied, if it also has a flat surface such as contemplated by Peters. Thus claim 13 is considered to be met by the combination of Peters and Graham as applied against claim 21.

* * * * * * *

Claim 19 adds to claim 13 the features that the gauge body is supplied with "kingpin-, camber-, and caster-reading means" (Peters' levels 44 and 45 constitute such means), that the magnet has a "vertical" outer face (see leveled surfaces 31 of Peters), that the gauge is "disposed outwardly of the wheel and readable from a position at the side of the wheel" (so is the Peters gauge) and that the "face of the magnet is dimensioned to span across at least two spaced portions of the hub face" (the Peters magnets 43 have spaced legs, and thus if the Peters gauge were applied against the hub face, the faces of these magnet legs would span across two spaced portions of the hub). Thus claim 19 is not considered to be patentable over the combination of Peters and Graham. It appears to involve only a double or analogous use of an old device.

Peters does not disclose that his wheel gauge is to be applied to the machined end face of the hub. However Peters discloses, as noted by applicant in his brief, that he may apply his gauge "against the wheel disc" and that he may also apply his gauge against a "surface of the part to be tested" as well as against the face of a brake drum. In view of the fact that Graham contemplates applying his gauge against the end of the wheel hub, it is considered that it would be well within the skill of a mechanic to so apply the Peters gauge. Applicant contends that the Graham patent does not teach applying the gauge against the hub end. The Examiner does not agree. Graham definitely discloses that he may bring his contact points 18 [secured to one end of the gauge device] against the wheel hub to measure camber. And as pointed out above only by applying these contact points against the end face of the hub can Graham achieve the result he states he gets. It is not considered that this is the result of "speculation or guesswork."

* * * * * *

From applicant's disclosure it appears that the outer end of the hub of a conventional front wheel is "in the form of a machine transverse face normal to the spindle axis * * *." Certainly applicant has not stated in his application that he removes the wheel from the vehicle and machines this surface prior to applying his gauge thereto. If this end face is conventionally machined on the modern automobile wheel prior to assembly, as it appears to be, when Graham applies his gauge to the end face of the hub, he is applying it to the machined end face of the hub and thus the entire combination is shown. Even if it were true that the end face of the hub of the modern automobile is not "accurately machined," the difference is merely one of degree; it would be clear to a mechanic that a more accurate machining of the surface to which the gauge is to be applied would produce more accurate results. Merely smoothing the end of the wheel hub is not considered to rise to the dignity of invention.

This is considered particularly so because Peters' magnetic devices are intended to be used only against flat surfaces. The choice of any machined surface against which to place the Peters gauge means would involve perhaps a new and analogous function of the device disclosed which would be within the province of the patentee.

* * *

On appeal, the Board of Appeals said:

* * * In view of the teaching by Graham * * *, we do not believe that one skilled in the art would have to call upon his inventive faculties to assist him to modify the Peters device so that it could be magnetically supported on the end face of a wheel-hub, nor to modify the Graham device, in view of the teaching by Peters, so that it could be magnetically supported on the end face of a wheel-hub. It is our conclusion that the subject matter defined in the claims lacks invention over the cited references. The rejection of the claims will be sustained.

In appraising the claims, we noticed that the alleged combination claim 13 even fails to define a structural cooperative relationship between the wheel-hub face and the gauge. As defined, said elements are not in positive engagement one with the other. In other words the claim merely catalogs two elements described in terms of their individual structure and function.

We note that appellants, in their reply brief, have challenged the accuracy of the Examiner's statement

"These levels [referring to the levels 44 and 45 in Figs. 21 and 22 of the Peters patent] also give an indication of the camber, caster, and king-pin inclination when the gauge is mounted on a vehicle wheel."

stating that they can find nothing in the Peters disclosure that sanctions such a statement. Attention is directed to the contents in paragraphs 2, 3 and 4, column 2 page 3 of the Peters patent, especially to the last two sentences in paragraph 4 where the patentee states that

"In the adjusting of these parts to a proper caster, camber and king pin slant the levels are used on suitable platforms or brackets attached to the parts worked on preferably by magnetic clamps. Thus these approximate adjustments are achieved before the wheel is attached in place."

While, as the patentee states, the adjustments made by the levels compared with the projector and screen are only rough or approximate, nevertheless they are adjustments and, as far as we can determine, at the most they differ in degree only from the like adjustments made by appellants with their levels. We believe that the Examiner's statement in question is fully substantiated by the Peters patent disclosure.

The argument is advanced on appeal that the Board's view was too limited, that the Graham teachings are too vague, and that Peters is not pertinent.

We find no difficulty in applying the references to the presented claims and concluding, as did the Patent Office, that one trained and experienced in the art here involved could easily expand the knowledge acquired from the references to encompass the suggestions set forth by the applicants without being entitled to a patent therefor.

The decision of the Board of Appeals is therefore affirmed.

AFFIRMED.

Amendment of Opinion in Spang et al v. Watson, 673 O. G. 589

In appeal No. 11,508, United States Court of Appeals for the District of Columbia Circuit, *William F. Spang et al., Appellants* v. *Robert C. Watson, Commissioner of Patents, Appellee*. The Court on August 21, 1953, ordered that the opinion published in the OFFICIAL GAZETTE at volume 673, page 589, be amended by deleting therefrom the following sentence, which appears in the last paragraph in column 1 of page 589, volume 673:

"appellants do not deny that the term 'Cube Steak' is often used to designate a type of meat regardless of source."

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

1,655,431, W. J. Miller, Mechanism for producing intermittent rotation of a jigger spindle; 1,691,119, same, Mold loading and transferring machine and jigger combined; 1,697,993, same, Mold conveying and pottery fabricating mechanism; 1,703,316, same, Method and mechanism for feeding plastic material to molds; 1,737,259, same, Process and apparatus for drying ceramic ware; 1,739,981, same, Means for feeding plastic material to molds; 1,750,762, same, Jigger for use in manufacture of articles from plastic material; 1,751,049, same, Automatic means for turning and finishing ware in the manufacture of pottery; 1,757,132, 1,788,402, same, Machine for use in the manufacture of pottery ware; 1,758,084, same, Automatic safety device for pottery machines; 1,762,236, same, Pottery forming machine; 1,769,527, same, Automatic profile, trimmer and jigger combined; Re. 20,401, Re. 21,672 (of 1,769,528), 1,769,529, 1,769,530, same, Method and apparatus for feeding and forming plastic material in the manufacture of pottery; 1,783,197, same, Tray for pottery fabricating apparatus; 1,784,373, same, Pottery molds and method of making same; 1,809,861, same, Automatic manufacture of pottery ware; 1,788,402, 1,812,893, 2,399,689, same, Pottery forming machine; 1,827,759, same, Method and apparatus for feeding and forming plastic material in the manufacture of pottery; 1,838,277, 2,374,555, same, Method of and apparatus for forming and applying appendages to ware in the manufacture of pottery; 1,842,622, same, Method of and apparatus for automatically reshaping and decorating ware in the making of pottery; 1,850,939, same, Means for removing excess of material in shaping pottery ware; 1,856,498, 2,272,421, same, Conveying mechanism; 1,759,058, 1,868,425, 2,046,525, 2,079,082, 2,124,204, 2,187,836, 2,191,857, 2,200,860, Re. 22,187, Re. 22,465 (of 2,243,880), 2,268,717, 2,270,075, 2,274,426, 2,298,223, 2,303,887, 2,310,858, 2,370,410, 2,387,927, 2,450,437, 2,452,858, 2,481,326, same, Method and apparatus for making pottery ware; 1,898,561, same, Method of producing pottery ware and molds for use therewith; 1,943,483, same, Ware transferring apparatus; 2,091,766, 2,103,086, 2,160,483, 2,258,658, 2,270,076, 2,296,364, 2,303,889, 2,310,859, 2,376,800, 2,392,399, 2,402,656, 2,407,321, 2,409,172, 2,409,999, 2,468,404, 2,499,602, 2,547,294, same, Apparatus for making pottery ware; 2,091,767, same, Method for manufacturing pottery ware; 2,109,028, 2,148,871, same, Process and installation for making pottery; 2,114,254, Miller & Reek, Apparatus for manufacturing pottery ware; 2,274,427, same, Mechanism for preventing overloading; 2,354,170, same, Apparatus and method for charging pottery molds; Re. 22,823, 2,349,292, 2,374,556, same, Method and apparatus for appendaging pottery ware; 2,301,906, same, Method and apparatus for manufacturing pottery ware; 2,437,702, same, Conveyer for transporting pottery molds; 2,293,070, Miller & Croninger, Method of and apparatus for making pottery ware; 2,139,362, R. J. Getty, Method and apparatus for making pottery; 2,272,422, Miller & Reese, Pottery topping machine; 2,355,172, same, Appendage moistener; 2,324,411, Miller, Reese & Croninger, Apparatus for decorating pottery ware, glass ware, etc.; 2,356,829, G. J. Croninger, Method and apparatus for feeding plastic clay to molds in the manufacture of pottery ware; 2,389,163, Miller & Wahl, Apparatus and method for feeding clay to cavitous jigger molds; 2,480,062, Wahl & Croninger, Method and apparatus for making pottery ware; 2,494,112, A. J. Wahl, Apparatus for making mold charges from plastic ceramic material; 2,639,045, same, Automatic ware dealing and transferring apparatus; 2,545,396, same, Dinnerware decorating apparatus; 2,559,352, D. M. Edgar, Jiggering tool for pottery ware; 2,612,106, G. B. Ryckman, Decoration stamping machine; 2,632,078, same, Stamp inking apparatus; Re. 21,663 (of 2,160,484), same, Apparatus for the manufacture of articles from plastic material; 2,217,346, same, Method of manufacturing lugged pottery ware; 2,282,372, 2,374,554, same, Apparatus for feeding clay to molds; 2,294,926, same, Manufacture of appendaged pottery ware; 2,303,888, same, Cutting off plastic ceramic bodies from parent masses; 2,324,410, 2,419,963, 2,447,521, 2,543,186, same, Apparatus for decorating pottery ware; 2,334,640, same, Method of applying clay to jiggering molds; 2,361,311, same, Method and apparatus for appendaging pottery ware; 2,361,312, same, Apparatus for finishing prefabricated pottery appendages; 2,374,553, same, Method and apparatus for feeding clay to molds; 2,376,799, same, Friction clutch; 2,379,737, same, Pressing apparatus for shaping clay and method of operation; 2,384,845, same, Method and apparatus for jiggering pottery ware; 2,389,629, same, Automatic change speed drive for pottery ware jiggering apparatus; 2,402,655, same, Pottery slip-casting apparatus; 2,408,803, same, Apparatus for preparing clay for jiggering in the manufacture of pottery ware; 2,408,804, same, Apparatus for manufacturing jiggered pottery ware; 2,409,221, same, Puddling machine; 2,413,330, same, Apparatus for preparing mixtures of ceramic material in the manufacture of pottery ware; 2,416,636, same, Apparatus for appendaging hollow dinner ware; 2,421,572, 2,444,943, 2,486,051, same, Apparatus for feeding clay to pottery molds; 2,426,518, same, Apparatus for conditioning pottery molds; 2,438,514, 2,441,164, same, Method and apparatus for decorating pottery ware; 2,439,407, same, Dinnerware finishing apparatus; 2,450,438, same, Apparatus for applying liquid size to pottery ware; 2,468,405, same, Pottery ware transferring machine; 2,489,796, 2,497,510, same, Apparatus for feeding plastic ceramic material to molds; 2,489,797, same, Apparatus for making undercut ware; 2,489,798, same, Apparatus for pottery appendaging; 2,494,101, same, Apparatus for conditioning and supplying clay to pottery forming machinery; 2,506,376, same, Apparatus for preforming clay charges prior to jiggering; 2,506,377, same, Method and apparatus for conditioning and supplying clay to pottery forming machinery; 2,506,378, same, Apparatus for making jiggered pottery ware; filed Aug. 8, 1953, D. C., W. D. Pa. (Pittsburgh), Doc. 11642, *Shenango Pottery Co.* v. *Miller Pottery Engineering Co.*

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1,703,316. (See 1,655,431.)	1,737,259. (See 1,655,431.)		
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1,784,373. (See 1,655,431.)	1,788,402. (See 1,655,431.)		
1,809,861. (See 1,655,431.)	1,812,893. (See 1,655,431.)		
1,827,759. (See 1,655,431.)	1,838,277. (See 1,655,431.)		
1,842,622. (See 1,655,431.)	1,850,939. (See 1,655,431.)		
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1,898,561. (See 1,655,431.)	1,943,483. (See 1,655,431.)		
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2,114,254. (See 1,655,431.)	2,124,204. (See 1,655,431.)		
2,139,362. (See 1,655,431.)	2,148,871. (See 1,655,431.)		
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2,547,294. (See 1,655,431.) 2,559,352. (See 1,655,431.)
2,612,106. (See 1,655,431.) 2,633,078. (See 1,655,431.)
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Re. 22,187. (See 1,655,431.)
Re. 22,405. (See 1,655,431.)
Re. 22,823. (See 1,655,431.)

ISSUE CALENDAR SHOWING CLOSING DATES

1954 TUESDAYS 1954

ISSUE DAYS FOR PATENTS
DEPARTMENT OF COMMERCE, UNITED STATES PATENT OFFICE

• • • When the final fee has been paid, and the patent to be issued has received its date and number, the application will not be withdrawn from issue on account of any mistake or change of purpose of the applicant, his attorney or his agent, nor for the purpose of enabling the inventor to procure a foreign patent, • • • .—Rule 313.

Assignments must be recorded on or before payment of final fee to secure the issuance of the patent to the assignee.—Rule 334.

Final fee will NOT be received from other than the applicant, his assignee or attorney, or a party in interest as shown by the records of the Patent Office.

Dates of issue of patents in large figures; close of issue in small figures in the same square.—See Rule 314

JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
5 Dec. 9	2 Dec. 24	2 Jan. 28	6 Mar. 4	4 Apr. 1	1 Apr. 29	6 June 3	3 July 1	7 Aug. 5	5 Sept. 2	2 Sept. 30	7 Nov. 4
12 Dec. 16	9 Jan. 7	9 Feb. 4	13 Mar. 11	11 Apr. 8	8 May 6	13 June 10	10 July 8	14 Aug. 12	12 Sept. 9	9 Oct. 7	14 Nov. 11
19 Dec. 17	16 Jan. 14	16 Feb. 11	20 Mar. 18	18 Apr. 15	15 May 13	20 June 17	17 July 15	21 Aug. 19	19 Sept. 16	16 Oct. 14	21 Nov. 18
26 Dec. 24	23 Jan. 21	23 Feb. 18	27 Mar. 25	25 Apr. 22	22 May 20	27 June 24	24 July 22	28 Aug. 26	26 Sept. 23	23 Oct. 21	28 Nov. 25
=	=	30 Feb. 25	=	=	29 May 27	=	31 July 29	=	=	30 Oct. 28	=

OFFICIAL GAZETTE, MONTHLY, VOLS. 673 TO 680, INCLUSIVE

NOTICES

Foreign Patents Received in the Scientific Library as of Oct. 1, 1953

Country	Date received	Highest number
Australia	Sept. 16, 1953	146,732
Austria	Sept. 23, 1953	175,950
Belgium	Aug. 28, 1953	508,600
Canada	Sept. 21, 1953	496,039
Czechoslovakia	June 26, 1952	81,300
Denmark	Sept. 2, 1953	76,055
Finland	May 29, 1953	25,835
France (*Patents*)	Sept. 21, 1953	1,033,850
(*Additions*)	Aug. 12, 1953	57,750
Germany	Sept. 1, 1953	875,818
Great Britain	Sept. 24, 1953	695,350
Hungary	Sept. 20, 1951	140,582
India	Sept. 8, 1953	46,943
Ireland	Sept. 10, 1953	19,400
Italy	Feb. 11, 1953	464,000
Japan	Sept. 23, 1953	4,050
Netherlands	Sept. 10, 1953	78,122
Norway	Sept. 11, 1953	82,276
Philippines	Apr. 23, 1953	157
Poland	Sept. 8, 1953	35,502
Russia	Apr. 10, 1928	2,496
Sweden	Aug. 27, 1953	140,879
Switzerland	Sept. 30, 1953	291,310

Australia: First 2,000 incomplete
Belgium: First printed 493,079
Canada: First printed 453,746
Finland: First printed 19,428
First 500 incomplete
Hungary: First received 5,792
Ireland: Missing 1–10,000, also 16,250–16,300 (1942)
Italy: First 243,000 incomplete
Russia: File incomplete

Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,587,253, G. S. Vernam, Telegraph switching system, decided Sept. 29, 1953, claims 4, 5, 6, and 11.

Pat. 2,540,066, M. I. Williamson, Bottle carrier, decided Sept. 14, 1953, claims 1, 2, and 3.

Pat. 2,558,990, L. W. Stahl and H. E. Young, Jr., Rotary hydraulic swivel, decided Sept. 2, 1953, claims 1 and 5.

Erratum

In the OFFICIAL GAZETTE, issue of October 6, 1953, page 6, second column, line 29, beginning with the syllable "ating" strike out all to and including "passage-" in line 30, and insert the same after the syllable and hyphen "oper-" in line 23, same column.

Classification Order No. 150

September 30, 1953

The following changes in the classification of inventions are hereby directed to take effect immediately:

IN THE MANUAL OF CLASSIFICATION:

ABOLISH SUBCLASSES

In *Class 2, Apparel* (Division 24)
Head coverings
Hats
176 Ventilating
Sweats
182 Ventilating

In *Class 12, Boot and Shoe Making* (Division 11)
83.5 Vamp-trimming machines

In *Class 18, Plastics* (Division 15)
Molding devices
31 Mold wiping and coating

In *Class 22, Metal Founding* (Division 3)
88 Mold coating and lining apparatus
Patterns
163.5 Coatings
188 Mold and core materials
189 Coating and linings

In *Class 25, Plastic Block and Earthenware Apparatus* (Division 15)
115 Sanders
116 Mold
117 Rotary drum

In *Class 93, Paper Manufactures* (Division 17)
Envelop machines
Reciprocating
Gumming
69 Picker faces

In *Class 140, Wireworking* (Division 14)
Fabric making
All wire
Portable machines
Stay applying
20 Clip joining

In *Class 255, Earth Boring* (Division 49)
Drills, bits and augers
71 Roller

CHANGE SUBCLASS TITLES

In *Class 12, Boot and Shoe Making* (Division 11), change the title of subclass 127 to read:
Work supports
Last jacks
127 With saddle

In *Class 151, Nut and Bolt Locks* (Division 57), change the title of subclass 33 to read:
33 Locked bolt-head or nut

In *Class 313, Electric Lamp and Discharge Devices* (Division 54), change the title of subclass 59 to read:
X-Ray
59 Secondary ray screen or special ray transmissive window

In *Class 318, Electricity, Motive Power Systems* (Division 26), change the title of subclass 445 to read:
445 Automatic and/or with time-delay means (e. g., automatic starting and/or stopping)

CHANGE SUBCLASS POSITIONS

In *Class 2, Apparel* (Division 24), reverse the positions of subclasses 197 and 198 to read as follows:
Caps
198 Women's wear
197 Adjustable size

In *Class 12, Boot and Shoe Making* (Division 11), change the position of subclasses 43 and 58 to read as follows:
Heel machines
With diverse operations
43 Fastener inserting and breasting (to follow newly established sub. 42.5)
Upper machines
Trimming
58 Skiving (to follow newly established subclass 57.6)

CHANGE SUBCLASS TITLE AND POSITION

In *Class 12, Boot and Shoe Making* (Division 11), change the title and position of subclass 79.5, as follows:
79.5 Sole and/or heel wax polishing machines (to follow subclass 77.5)

ESTABLISH SUBCLASSES

In *Class 12, Boot and Shoe Making* (Division 11)
(R. A. WAHL, S. KOREN and E. V. BENHAM, *Classifiers*)

Sole machines
18.5 With diverse operations (to follow subclass 38)
18.7 With peripheral channeling
18.9 With slitting
Heel machines
42.5 With diverse operations (to follow subclass 50.4)
Upper machines
57.5 Trimming (to follow subclass 57.2)
57.6 Sole attaching edge
Work supports
123.3 For loose heels (to follow subclass 123)

In *Class 22, Metal Founding* (Division 3)
(I. MARCUS and H. R. KOLLER, *Classifiers*)

Processes
Casting
216.5 Using molds of special composition (to follow subclass 216)

In *Class 85, Driven, Headed, and Screw-Threaded Fastenings* (Division 57)
(H. T. KLINKSIEK, *Classifier*)

61 Torque responsive nut or bolt head driving connection (to precede subclass 1)
62 With means to indicate application of predetermined stress-strain

In *Class 106, Compositions, Coating or Plastic* (Division 3)
(I. MARCUS and H. R. KOLLER, *Classifiers*)

Coating or plastic compositions
38.2 Molds and mold coating compositions (to follow subclass 38)
38.22 Compositions for coating and lining molds
38.23 Carbohydrate or derivative containing
38.24 Fat, fatty oil, fatty oil acid or salt thereof containing
38.25 Wax, bituminous or resinous material or tarry residue containing
38.27 Inorganic materials only
38.28 Elemental carbon containing
38.3 Alkali metal silicate or inorganic settable ingredient containing
38.35 With organic material
38.4 Protein or derivative containing
38.5 Carbohydrate or derivative containing
38.6 Natural resin or derivative containing
38.7 Fat, fatty oil, fatty oil acid or salt thereof containing
38.8 Wax, bituminous material or tarry residue containing
38.9 Inorganic materials only

In *Class 117, Coating: Processes and Miscellaneous Products* (Division 38)
(I. MARCUS and H. R. KOLLER, *Classifiers*)

5.1 Mold coating (to follow subclass 5)
5.2 Sand mold
5.3 Metal mold

In *Class 255, Earth Boring* (Division 49)
(W. S. COLE, *Classifier*)

Drills, bits and augers
300 Rolling cutter bits (to follow subclass 72)
301 With fixed cutter
302 Fixed pilot or core disintegrating cutter
303 With drilling fluid supply to bearing
304 With lubricant supply to bearing
305 Automatic
306 With guide or rolling pilot cutter
307 With guard or shield
308 With scraper or mechanical cleaner for cutter
309 With rotary or endless carrier
310 Gear or cam drive
311 Fluid drive
312 With cutter rotating means
313 With cutting fluid nozzle or conduit modification
314 Removable nozzle tube or spindle
315 With cutting fluid deflector or impeller
316 With adjustable bore diameter
317 Combined
318 Wobbling cutters
319 Longitudinal axis cutter
320 With transverse axis cutter
321 Vertically spaced, transverse axis cutters
322 Laterally offset transverse axis cutter
323 Disk blade
324 Plural co-axial cutters
325 Cone or frustum roller
326 Rotatable shaft or cutter shank
327 Circumferentially displaced cutter axes
328 Stub shafts only
329 Detachable multi-axis support or spider
330 Mutually contacting cutter supports
331 With bearing or seal modification
332 Cross shaft and stub shaft
333 Cross shaft
334 Disaligned cross shaft sections
335 Separable supports
336 Removable cross shaft or bushing
337 Outwardly directed stub shaft
338 Separable support for stub shaft
339 Detachable stub shaft, bushing or bearing
340 Releasable cutter securing device
341 Stub shaft cutter securing means
342 Released by anti-friction bearing disassembly
343 With bearing or seal modification
344 Anti-friction type
345 Cutters
346 Disk cutters
347 Composite cutters
348 Irregular tooth cutters
349 Toothed cones or frustums
350 Spiral ribs or tooth rows

ESTABLISH AND CHANGE SUBCLASS TITLES AND POSITIONS

In *Class 2, Apparel* (Division 24)
(S. KOREN, *Classifier*)

establish subclasses 171.1–171.8, 173.5, 181.2–181.8, 182.1–182.8, 184.5, 209.1, 209.3–209.5, and 209.7; change the titles and positions of subclasses 181 and 196; change the position of subclasses 183, 184, 202–209; as shown by the following schedule:

Head coverings
171.1 Separable crown section type (to follow subclass 171)
171.2 With therapeutic device, medicament or perfume
171.3 With forced air circulator
171.4 With movable closure for opening
171.5 Flexible material closure
171.6 Crown fold type
171.7 Movable along crown surface
171.8 Endless band type
173.5 With outward bulge in crown (to follow subclass 173)
181 With sweats or other supplementary head engaging member
181.2 Discontinuous contact
181.4 Removable or retractable
181.6 With perforated or slotted, sweat or head engaging member
181.8 Transversely grooved head engaging member
182.1 Crown spacing
182.2 Removable or retractable spacer
182.3 With perforated or slotted, sweat or head engaging member
182.4 Coil spacer
182.5 Coextensively transversely grooved spacer
182.6 Tongue, stud or block spacer
182.7 Through-passaged spacer
182.8 Perforated
183 Head size adjustment
184 Sewing
184.5 With external air deflector, or weather guard for crown opening
202 Hoods (to follow subclass 174)
203 With mufflers
204 Bonnet type
205 Helmet type
206 Face coverings
207 Scarfs and veils
208 Muffs
209 Ear
209.1 Combined or convertible
196 Cape
209.3 With interrupted crown
209.4 With superposed or inset band
209.5 Inserted perforated or mesh section
209.7 With perforation

PRINCIPAL DISPOSITION OF ART FROM ABOLISHED SUBCLASSES

Abolished Class	Abolished Subclass	Disposition Class	Disposition Subclass
2	176	2	171.1, 171.3, 171.4+, 172, 173.5, 177, 181, 181.2, 181.6, 182.2, 182.5, 182.6, 182.7, 184.5, 209.1, 209.3+, 171.2, 171.8, 173.5, 181+

PRINCIPAL DISPOSITION OF ART FROM ABOLISHED SUBCLASSES—Continued

Abolished Class	Abolished Subclass	Disposition Class	Disposition Subclass
12	83.5	12	57.6
18	31	118	Various
22	86	22	Various
		118	Various
		269	Various
	163.5	22	216.5
		106	38.2+
		117	5.1+
	188	22	216.5
		106	38.2+
		117	5.1+
	189	22	192, 216.5
		106	38.2+
		117	5.1+
25	115–117	118	Various
33	69	118	236, 266
140	20	1	Various
255	71	255	61, 72, 73+, 73+, 300–350
		206	8.2

PRINCIPAL SOURCES OF PATENTS IN ESTABLISHED SUBCLASSES

Established Class	Established Subclass	Source Class	Source Subclass
2	171.1	2	176
	171.2		Various, esp. 182
	171.3		176
	171.4		176, 185, 186
	171.5		Various, esp. 176
	171.6		176, 196
	171.7		171, 176, 185
	171.8		176, 182
	173.5, 181.2		Various, esp. 176, 182
	181.4		181, 182, 196
	181.6		Various, esp. 176, 182
	181.8, 182.1		Various, esp. 182
	182.2		176, 182
	182.3		Various, esp. 182
	182.4		182
	182.5		176, 182
	182.6		Various, esp. 176, 177, 182
	182.7		Various, esp. 176, 182
	812.8		Various, esp. 181, 182
	184.5		176, 177
	209.1		176, 185
			Various, esp. 176, 178, 196, 198
			Various, esp. 176
			Various, esp. 176, 200
			Various, esp. 176, 198
12	15.5, 18.7, 18.9	12	17
	42.6		42
	57.5		51
	57.6		83.5
	123.3		123, 126
22	216.5	18	47
		22	163.5, 164, 188, 189, 192
		49	65
85	61	85	9, 32, 41
		73	141
		151	21
	62	85	1
		73	88, 88.5
		151	19, 21, 36, 38
		340	213
106	38.2+	18	47
		22	163.5, 164, 188, 189, 217
		49	65
117	5.1+	18	47
		22	163.5, 164, 188, 189, 192
		49	65
255	300	255	71
	301		71, 72
	302		71, 61, 73
	303–319		71
	320		71, 73
	321–350		71

M. C. ROSA,
Executive Examiner.

Classification Order No. 151

The following transfer is hereby directed to take effect on Monday, October 5, 1953:

Class 240, Illumination
from Division 69 to Division 62.

M. C. ROSA,
Sept. 28, 1953. *Executive Examiner.*

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,636,188. Patient Lifter and Carrier. Patented Apr. 28, 1953. Light, strong lifter and carrier of the free traveling crane type having hoisting mechanism is designed for transferring patients to and from beds, wheel chairs, and other appliances. Light-weight metallic tubes form a horisontal open-front rectangular base frame on casters. At the rear, a crane and overhead frame are formed by two brace-connected upright posts and a pair of overhead parallel arms. The lower and overhead frames are united and reinforced by two welded arched bars and short diagonal struts. An adjustable flexible sling forming a seat, provided with notches so the patient may straddle the lower portion of the sling, is detachably fastened to winding bands on rotary drums journaled on two spaced crossbars of the overhead frame. Hoisting mechanism comprises a sprocket rigid with each drum, driven by an endless chain, with an operating hand wheel. Body and leg bands provide safety for a patient during carrying. The open front enables the carrier to be wheeled into position with relation to a bed or wheel chair. (Owner) Ike King Lockey, P. O. Box 142, Sumatra, Fla. Group 25—32. Reg. No. 52,014.

Pat. 2,128,796. Hand Covering. Patented Aug. 30, 1938. An outer mitten and an inner glove are stitched together at the wrist. The mitten has a slide fastener extending from a point approximately above the first finger across the top and down the outer side. This enables the wearer to quickly un-zip the mitten and fold it back to form a cuff, exposing the glove as far as the wrist so the wearer may have free use of thumb and fingers. The mitten may be lined with fur or other material, or may be electrically insulated. (Owner) Robert Boehm-Myro, 2149 California St., San Francisco 15, Calif. Groups 23—81; 31—51. Reg. No. 52,015.

Pat. 2,603,790. Hand Covering. Patented July 22, 1952. Combined glove and mitten similar to that disclosed in Pat. 2,128,796 has the added feature of an inner pocket formed in the palm side of the mitten for safe retention of money or small valuables. The pocket may be formed of additional material or by stitching the outside of the mitten and the lining together in the desired shape. The opening in the pocket is automatically closed when the mitten is closed over the glove. If desired, the opening may be provided with a slide fastener or other fastening means to retain the valuables whether the mitten be closed or folded back as a cuff. The device is particularly useful for persons participating in winter sports. (Owner) Robert Boehm-Myro, 2149 California St., San Francisco 15, Calif. Groups 23—81; 31—51. Reg. No. 52,016.

Pat. 2,638,187. Vacuum Thermal Insulating Panel. Patented May 12, 1953. Rectangular hollow panels of sheet metal, in which a partial vacuum is hermetically maintained, are to be used in single or multiple units to form thermal insulating walls for buildings, heating or steam-generating equipment, oven or cold storage compartments, or any other spatial enclosure, insulation. The panel is formed by welded end and side V-shaped bridge plates, turned so the apexes are toward each other, with struts mounted between the apexes. Top and bottom concaved sheet-metal cover sheets are welded on the edges of the bridge plates, extending far enough at the ends to be bent and welded together to enclose the end V's. Plates enclose the side V's. One end is initially formed with an aperture in which a one-way-valve tube is mounted, and the side arms of the V's have air openings. The interior of the panel is partially evacuated by a vacuum pump, and the aperture sealed. The cover sheets are concaved to a position simulating the natural forming of flexible sheets due to difference between atmospheric pressure and the internal pressure of the panel. Design formulas and technical advice available from the owner. (Owner) John F. P. Tate, 5 West 75th St., New York 23, N. Y. Groups 32—73; 34—95. Reg. No. 52,017.

Pat. 2,575,936. Portable Drinking Fountain. Patented Nov. 20, 1951. Drinking fountain may be moved from place to place on a construction job or used in a public conveyance etc. to furnish cool fresh drinking water. A relatively shallow insulated water tank, having an insulated cover, is supported on four adjustable hollow tubular legs placed at acute angles to the vertical axis. The tank is filled through a filler opening in the cover, with a cooperating filler cap flexibly linked to the cover. Water is dispensed through a conduit having fluid communication with the interior of the tank and extending downwardly within one of the legs. The lower end of the conduit is connected by a block fitting to a faucet or bubbler placed at an angle to the leg. A rimmed tray is secured in fluid-tight relation around the leg beneath the faucet to catch the waste water and discharge it into the leg or into a pipe, the lower end of which is closed. The pipe is removably clipped to brackets on the outside of the leg for emptying. Drinking outlets may be used on more than one leg, if desired. A shoulder harness is provided so that a workman may easily transport the fountain, or it may be moved on casters. (Owner) Seamless Products Co., Inc., 126 11th Ave., New York 11, N. Y. Groups 33—61; 34—41. Reg. No. 52,018.

The following three patents are owned by Jean E. F. Gobin-Daude. Inquiries concerning the patents should be directed to Wenderoth, Lind and Ponack, 900 F St., N. W., Washington 4, D. C.

Pat. 2,597,984. Means for Fixing Hollow Rivets and the Like. Patented May 27, 1952. Spindle-motion control in an automatic riveting machine prevents twisting or breaking of the spindle when two axially aligned tools come together for driving a hollow rivet. In one form of the invention the lower tool is mounted in a fixed tool carrier, the upper tool in a movable tubular tool carrier. A spindle carrier is mounted for frictional sliding in the upper tool, with the tapered end of the spindle, on which a rivet is threaded by a cooperating distributor, extending when the tool moves downward. A fixed stop, adjustably mounted on the frame, contacts at a predetermined stop-point a shoulder on the spindle carrier but allows the tool to slide past to complete the rivet-driving. This relative movement is so adjusted that the end of the spindle is guiding the rivet when the end of the opposite tool penetrates the hollow of the rivet; but does not contact the opposite tool. In a second form of the invention, which is a machine for fixing two-piece rivets, the relative motion is effected by a movable stop, and movement of this stop is controlled by the movement of the opposite tool, which in this case is movable. Group 35—42. Reg. No. 52,019.

Pat. 2,620,536. Snap Fastener Socket. Patented Dec. 9, 1952. Snap fastener socket for cooperation with a snap fastener stud has independent spring means and is attached to cloth by an annular row of prongs provided on an annular cap disposed on the opposite face of the cloth. The prongs are passed through the cloth, are bent by pressure against an annular anvil portion, and locked by the upturned outer ends of an underlying locking portion. Between the inwardly turned and spaced-apart ends of the closely fitting bent anvil and prong-locking portions a resilient split ring spring is held to move radially for receiving and holding the neck of the snap fastener stud when it is inserted. Various modifications are shown. Groups 39—99; 40. Reg. No. 52,020.

Pat. 2,620,537. Resilient Fastener Formed of Folded Metallic Strips. Patented Dec. 9, 1952. Fastener for joining an assembly provided with an aperture therethrough, such as a piece of work on a rigid support. The fastener comprises a resilient metal strip folded, bent, and twisted so that the center forms a looped head adapted to bear against the edge of the aperture on one side of the assembly, and the ends form two arms at right angles to the head, constituting a stem. The arms are in adjacent parallel planes and have a lateral projection on the outside of each arm. When the stem is extended through an aperture, these projections, urged by the twist, expand on the other side of the assembly. The fastener is introduced or withdrawn by inserting a screwdriver through slots in the head and down the arms and pivoting the tool slightly to move the arms and retract the projections toward each other. Several modifications are shown in the shape of the head and projections and in a pull piece. One modification includes a part which immobilizes the arms in retracted position so the fastener may be riveted on a rigid piece of work, such as a door to be fastened to a support. Group 33—73—91. Reg. No. 52,021.

Pat. 2,637,284. Burglar Trap. Patented May 5, 1953. Trap to be placed behind a counter in a bank, store, or the like, and operated by an employee pressing his knee against a spring-held lever. As the lever is pressed, an elongated striking and detaining bar pivoted thereto and to a supporting tripod swings outwardly through a slot in the apron of the counter to knock the bandit over. Hooks spaced along the striking bar pierce the bandit's clothing to detain him until help arrives. A latching tripod spaced from the supporting tripod has a head from which a pair of latching members project to receive the striking bar. The lever is rockably mounted on the latching members and releases the striking bar when pressed by the employee. (Owner) Robert H. Burnell, 115 Varnum St., Washington, D. C. Groups 33—59; 35—89. Reg. No. 52,026.

Pat. 2,639,177. Doorknob Actuated Lock. Patented May 19, 1953. Door lock for hotel rooms and the like having a latch actuated by a conventional doorknob from the inside of a door and having a freely rotatable knob on the outside of the door with an emergency knob positioned within the outer knob. A flanged cap is removably secured to the outer knob to conceal the emergency knob. The door may be unlocked from the outside by removing the cap and turning the emergency knob. (Owner) Oliver S. Smith, Box 22, Burns, Tenn. Group 33—59. Reg. No. 52,022.

Pat. 2,636,411. Open End Ratchet Wrench. Patented Apr. 28, 1953. Crescent wrench is adapted by ratchet action to turn tubing fittings, bolts, nuts, or the like in substantially inaccessible places. A removable cylindrical socket member, having ratchet teeth in its peripheral surface and a nut-receiving opening extending inwardly from one side, is rotatably mounted in an arcuate recess in the wrench head. The socket member is rotatably secured in the recess by spring-pressed gripping jaws pivotally mounted on the handle. The ratchet teeth are positioned between annular rims of the socket member and coact with spring-actuated pins mounted in the wrench head for rotation of the socket member with the handle. For removing the socket member, the gripping jaws are spread by a cam carried on a stem which extends through the handle of the wrench and is actuated by a knob on the stem at the end of the handle. Socket members having openings of various dimensions permit use of several different ratchets with one wrench. (Owner) Weldon A. Wood, 319 West Lincoln St., Nampa, Idaho. Group 33—52. Reg. No. 52,023.

Pat. 2,637,261. Attachment for Garden Rakes. Patented May 5, 1953. Attachment consisting of two steel blades may be removably secured to a garden rake to convert the rake into a wide-bladed hoe for normal use. By turning the rake over, the attachment provides also a wide scraping blade for pushing material, such as snow off a walk for instance. The blades are curved and secured together with the lower edge of the scraper blade welded to the back of the hoe blade at a point above the lower cutting edge of the hoe blade to accommodate the teeth of a rake between the blades. An L-shaped abutment member is secured to the scraper blade at a point above the upper edge of the hoe blade to engage the head bar of the rake to firmly secure the attachment to the rake. The scraper blade is of resilient metal to permit the attachment to be easily secured to or removed from a rake by a person of limited strength. (Owner) Herbert E. Wale. Correspondence to Smith & Tuck, 734 Central Building, Seattle 4, Wash. Group 33—52. Reg. No. 52,024.

Pat. 2,636,547. Combination Settee and Table. Patented Apr. 28, 1953. Combination settee and table includes a stool having a seat to accommodate several people. The stool is supported by spaced front and rear legs with braces extending between the legs. Each front leg has an elongated groove and a pair of cut-outs which communicate with the grooves. A pair of arcuate arms each have an eye at one end and a pin which projects through the cut-outs and eye, so the arms are free to pivot, and the eyes can slide vertically in the grooves. A flange on the other end of each arm is secured to a movable body which forms a back rest. When used as a table, the back rest is pivoted in a clockwise direction, and the smooth upper surface provides a table top for persons seated on the stool. (Owner) Alma Della Munson, 1502 Lupine Lane, Austin, Tex. Group 25—11—12—14. Reg. No. 52,025.

Edna T. Walls, the present owner of the following two patents, offers them for licensing or sale on reasonable terms. Inquiries regarding the patents should be directed to Mrs. Edna T. Walls, R. D. 2, Binghamton, N. Y.

[1] Pat. 2,475,928. Camp Trailer. Patented July 12, 1949. Camp trailer to be towed by an automobile may be easily collapsed for traveling or raised for camping. Trailer body has a rectangular floor and outwardly inclined side panels with upstanding extensions to which vertical walls are pivoted to fold over cots. Slidable windows are mounted in the walls. Bows extending over top of span are hinged at center and to side panels. Cots pivotally attached to side panels and braced to floor have storage space beneath. Swingable tail gate has a folding step. Canvas top is attached by ropes to spaced hooks along upper edge of side walls. When collapsed for traveling, trailer forms a low body protected by an additional canvas attached to hooks on inclined sides. Groups 23—95; 25—11; 38—41. Reg. No. 52,027.

[1] The previous registration of this patent as Reg. No. 35,091 has been withdrawn in view of the change in ownership.

Pat. 2,583,718. Colostomy Appliance. Patented Jan. 29, 1952. Medical appliance for directive control of discharge after internal irrigation through a fecal fistula. The appliance is a substantially cylindrical shield of thin sheet metal, flexible plastic, or the like which fits within the rim of a toilet bowl and is removably attached thereto by clips and other supporting means. The shield, which comprises a rectangular sheet cut out to provide a reduced slotted end projection at each lower corner, is retained in its adjustable cylindrical shape by bringing the projections together and fastening between curved clamping plates by wing nut screws. The user sits directly in front of the shield with his abdomen resting comfortably against a smoothly contoured lip above the end projections of the shield, his hands being free. A flat hood serves as a desk top during use if desired. By removing the clamping plates, the shield may be cleaned and rolled into a small package for storing or carrying. Groups 33—73; 39—16—81. Reg. No. 52,028.

Pat. 2,628,004. Self-Closing Collapsible Tube. Patented Feb. 10, 1953. Self-closing collapsible tube for tooth paste, shaving cream, etc. has a body portion permanently closed at one end and a tapering wall with a central opening at the other end. A movable tubular member projects through the opening. The inner end of the tubular member is connected to a diaphragm which is clamped at its periphery within the body portion. A fixed inner cylindrical member, which controls a discharge outlet in the outer end of the movable tubular member, has a supporting perforated flange spaced inwardly from the diaphragm. When the tube is squeezed to extrude some of its contents, the material passes through the perforated flange and moves the diaphragm and movable member to open the discharge outlet. The diaphragm is biased by resilient means to normally maintain the movable member in position to close the discharge outlet. (Owner) Theodore F. Schlicksupp, 52 Vanderbilt Ave., New York 17, N. Y. Groups 34—92; 40. Reg. No. 52,029.

Pat. 2,506,322. Dog Exercising Machine. Patented May 2, 1950. Vehicle, which may be used in an apartment in stationary condition or moved about the streets, for exercising a dog has an endless tread belt upon which the animal is caused to run, and a pair of rotatable axles carrying fixedly mounted ground-engaging wheels. Manually controlled means are provided for varying the degree of resistance which the belt offers to movement of the ani-

mal's feet. A driving roller fixedly mounted on the rear axle frictionally engages the lower run of the endless belt. A pulley is fixedly mounted on each axle, and the pulleys are connected by a crossed endless belt. The vehicle may be manually pushed, guided, and tilted either forward or backward by an inverted U-shaped handle secured to the rear end of the vehicle. There are retracted feet which may be manually extended to raise the vehicle with the wheels out of contact with the floor to allow easy exercising of the animal without causing travel of the vehicle. (Owner) John Yushak. Correspondence to Robert K. Youtie, 1600 Bankers Securities Building, Walnut and Juniper Sts., Philadelphia 7, Pa. Group 39—49. Reg. No. 52,030.

Pat. 2,614,938. Method for Selective Sterilization of Food Products. Patented Oct. 21, 1952. Method for selective sterilization of food products by means of electric shock treatment induced by a high potential current for the purpose of increasing the preservative or keeping qualities of the products. As the prepared food is conveyed through a tube, it is subjected to a high-potential low-ampere current while simultaneously maintaining the food product in a substantially constant unheated condition. The current employed is characterised by a voltage of at least 30,000 volts and an amperage not exceeding 30 milliamps. (Owner) John J. Meehan. Correspondence to Eli Mullin, 134 North LaSalle St., Chicago 2, Ill. Groups 35—51; 36—99. Reg. No. 52,031.

TRADE-MARKS

OFFICIAL GAZETTE, OCTOBER 27, 1953

[VOL. 675. No. 4]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 629,256. Seaplant Chemical Corporation, New Bedford, Mass. Filed May 6, 1952.

SeaKem

For Whole Irish Moss and Refined Whole Irish Moss. Claims use since Mar. 11, 1952.

Ser. No. 638,365. Karg Brothers, Inc., Johnstown, N. Y. Filed Nov. 20, 1952.

KARGONIZED

For Leather.
Claims use since Oct. 4, 1952.

Ser. No. 639,491. Roman Somavia, Hollister, Calif. Filed Dec. 15, 1952.

QS

For Chinchillas.
Claims use since June 26, 1947.

Ser. No. 642,204. Eagle-Ottawa Leather Company, Grand Haven, Mich. Filed Feb. 13, 1953.

CAMBRIDGE

For Leather.
Claims use since March 1952.

Ser. No. 642,205. Eagle-Ottawa Leather Company, Grand Haven, Mich. Filed Feb. 13, 1953.

EAGLE CASE

Applicant claims ownership of Registrations Nos. 354,078 and 438,940.
For Leather.
Claims use since March 1929.

Ser. No. 642,206. Eagle-Ottawa Leather Company, Grand Haven, Mich. Filed Feb. 13, 1953. (Sec. 2f.)

EDINBURGH GRAIN

Applicant hereby disclaims exclusive use of the word "Grain" apart from the mark as shown on drawing. Applicant claims ownership of Registration No. 441,813.
For Leather.
Claims use since June 1, 1947.

Ser. No. 642,208. Eagle-Ottawa Leather Company, Grand Haven, Mich. Filed Feb. 13, 1953. (Sec. 2f.)

MERICAN GRAIN

Exclusive use of the word "Grain" apart from the mark shown on the drawing is disclaimed. Applicant claims ownership of Registration No. 390,353.
For Leather.
Claims use since Apr. 15, 1939.

Ser. No. 642,209. Eagle-Ottawa Leather Company, Grand Haven, Mich. Filed Feb. 13, 1953.

NOTTINGHAM

For Leather.
Claims use since Jan. 20, 1953.

Ser. No. 642,210. Eagle-Ottawa Leather Company, Grand Haven, Mich. Filed Feb. 13, 1953. (Sec. 2f.)

OTTAWA ELK

Applicant disclaims exclusive use of the word "Elk" apart from the mark as shown in the drawing. Applicant claims ownership of Registrations Nos. 354,078 and 437,412.
For Leather.
Claims use since 1915.

Ser. No. 642,626. Eagle-Ottawa Leather Company, Grand Haven, Mich. Filed Feb. 24, 1953.

ETON

For Leather.
Claims use since November 1952.

Ser. No. 643,852. Paper Novelty Manufacturing Company, Brooklyn, N. Y. Filed Mar. 18, 1953.

SNOW QUILT

The word "Quilt" is disclaimed apart from the mark as shown.
For Flame-Proof Cotton Batting.
Claims use since Jan. 5, 1953.

Ser. No. 643,858. S & S Trading Company, Gloversville, N. Y. Filed Mar. 18, 1953.



No claim is made to the words "Trading Company" separate and apart from the mark as shown.
For Finished Leathers.
Claims use since Oct. 1, 1952.

Ser. No. 645,578. Henry Edward Lowe, Jr., doing business as Lowe & Lowe Co., Cassopolis, Mich. Filed Apr. 20, 1953.

TIDY

For Ground Clay.
Claims use since Apr. 1, 1953.

Ser. No. 645,641. Extruders, Inc., Hawthorne, Calif. Filed Apr. 21, 1953.

Poly-treat

For Polyethylene Film in Sheet Form for the Manufacture of Bags.
Claims use since Nov. 29, 1952.

Ser. No. 645,699. Delta Gamma Pre-School Visually Handicapped Foundation of St. Louis, St. Louis, Mo. Filed Apr. 22, 1953.

SHINING LIGHT

For Christmas Trees.
Claims use since Dec. 8, 1951.

Ser. No. 645,738. Stern's Nurseries, Inc., Geneva, N. Y. Filed Apr. 22, 1953. (Sec. 2f as to "Stern's.")

Stern's Man-High

For Gladiolus Bulbs.
Claims use since Dec. 12, 1952, on the mark as shown; and since on or before Jan. 28, 1948, as to "Stern's."

CLASS 2

RECEPTACLES

Ser. No. 646,940. Gladwin Plastics Co., Atlanta, Ga. Filed May 13, 1953.

Plasti-Hamper

No exclusive claim is made to the word "Hamper" apart from the mark as shown.
For Plastic Clothes Hampers.
Claims use since July 16, 1952.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 646,536. Jess & C. A. Cutler, Inc., Columbus, Ga. Filed May 6, 1953.

JESSCA

For Wire Chinchilla Cages.
Claims use since Feb. 27, 1953.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 630,661. Bolta-Saran, Inc., Lawrence, Mass. Filed June 3, 1952.

Scour Puss

Applicant makes no claim to any exclusive rights in the word "Scour" apart from the words "Scour Puss."
For Scouring Pads Consisting of a Mass of Synthetic Resin Monofilaments.
Claims use since Mar. 21, 1952.

Ser. No. 635,416. Industrial Soap Company, St. Louis, Mo. Filed Sept. 18, 1952.

MERIDIAN

For Floor Wax Soap for Cleaning and Polishing Floors and Scouring Cleansers.
Claims use since June 5, 1933.

CLASS 5

ADHESIVES

Ser. No. 637,371. Glu-Pen Corporation, Wilmington, Del., and New York, N. Y. Filed Oct. 30, 1952.



For Glue in Cartridge Form With a Ball-Pointed Dispenser Therefor.
Claims use since May 5, 1952.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 593,650. Claremont Pigment Dispersion Corporation, Brooklyn, N. Y. Filed Mar. 9, 1950.

FROSTONE

For Liquid Light Refractory Frost Coating.
Claims use since July 6, 1948.

Ser. No. 620,502. Gordon Chemical Co., Inc., Kansas City, Mo. Filed Oct. 26, 1951.

Mite-Cide

The drawing is lined for the color orange. Applicant disclaims the terms "Mite" and "Cide" apart from the mark as shown.
For Liquid Wood Preservative for the Prevention of Rot and for the Extermination and Prevention of Termites, Red Mites, Blue Bugs, Fleas, and Other Insects.
Claims use since June 1, 1937.

Ser. No. 633,878. Sardeau, Inc., New York, N. Y. Filed Aug. 13, 1952.

ALLURIUM

For Refined Isomeric Propylene Myristin.
Claims use since July 1, 1952.

Ser. No. 634,573. Callaway Mills Company, La Grange, Ga. Filed Aug. 28, 1952.

"KEX"

Applicant claims ownership of Registrations Nos. 231,767, 397,425, and others.
For Impregnating Oil Used in Treating Dusting Cloths To Increase Their Ability To Pick Up Dust.
Claims use since July 31, 1952.

Ser. No. 636,838. John Clarke & Co. Inc., New York, N. Y. Filed Oct. 18, 1952.

KILDEW

For Mildew Preventative and Moth Killer.
Claims use since on or about June 1952.

Ser. No. 637,098. Frank P. White Company, Minneapolis, Minn. Filed Oct. 23, 1952.

PERMA-DYE

The word "Dye" is disclaimed apart from the mark as shown.
For Liquid Dye for Application to Surfaces of Structures Made of Concrete, Such as Sidewalks, Driveways, Flooring in Building Construction, and the Like.
Claims use since on or about June 11, 1952.

Ser. No. 637,819. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Filed Nov. 8, 1952.

Perlit

Applicant claims ownership of German Registration No. 621,742, dated June 9, 1952.
For Water-Repellent Impregnating Agent for Textiles.

Ser. No. 638,980. Societe pour le Traitement et l'Amelioration des Tissus, Paris, France. Filed Dec. 4, 1952.

Texylon

Applicant claims ownership of French Registration No. 420,605, dated June 6, 1952.
For Chemical Preparations for the Treatment of Textile Articles, Chemical Preparations Adapted To Fix to the Fibres of Textile Articles, Chemical Preparations Containing a Silicate for the Treatment of Textile Articles, Chemical Preparations for the Treatment and Improvement of Textile Articles.

Ser. No. 640,647. Scholler Brothers, Inc., Philadelphia, Pa. Filed Jan. 12, 1953.

HYSORB

For Compositions for Textile Treatment Imparting Wettability, Increased Absorption, Anti-Static Property, and Increased Abrasion Resistance to Rayon, Nylon, Other Synthetic Fibers, Cotton, Wool and Silk in the Form of Fiber, Roving, Sliver, and Fabric.
Claims use since on or about Sept. 3, 1952.

Ser. No. 643,142. Anderson Clarke, Incorporated, Wildwood, N. J. Filed Mar. 5, 1953.

NoDorSmel

The word "Smel" is disclaimed apart from the mark as shown.
For Insecticides.
Claims use since Feb. 9, 1953.

Ser. No. 643,829. Federal Distributing Co. Inc., Kansas City, Mo. Filed Mar. 18, 1953.

SHOCK-EX

FORMULA
II

The words "Shock" and "Formula" are disclaimed apart from the mark as shown.
For Chemicals Sprayed on Portions of Automobiles and Building Contents To Eliminate Static Electricity Therein.
Claims use since Feb. 11, 1953.

Ser. No. 644,217. Godfrey L. Cabot, Inc., Boston, Mass. Filed Mar. 26, 1953.

MOGUL



Applicant claims ownership of Registration No. 502,518.
For Carbon Black as an Amorphous Carbon of High Purity Containing a Significant Percentage of Combined Oxygen for Use in Chemical Compounds and for Chemical Purposes.
Claims use since Mar. 29, 1932.

Ser. No. 644,602. Continental Oil Company, Ponca City, Okla. Filed Apr. 2, 1953.

CONOGAS

Applicant claims ownership of Registration No. 358,861.
For Liquefied Petroleum Gases.
Claims use since Nov. 13, 1952.

Ser. No. 645,124. A. B. Dick Company, Niles, Ill. Filed Apr. 13, 1953.



Applicant claims ownership of Registrations Nos. 547,242 and 559,074.
For Liquids for Use in a Duplicating Process Wherein Copy Sheets Are Wet on the Surface With the Liquid and Brought Into Contact With an Image on a Master Sheet.
Claims use since Mar. 19, 1952.

Ser. No. 645,527. American Alcolac Corporation, Fairfield, Baltimore, Md. Filed Apr. 20, 1953.

SIPEX

Applicant claims ownership of Registration No. 553,565.
For Lauryl Sulfate for General Use in the Industrial Art.
Claims use since Mar. 10, 1953.

Ser. No. 646,257. James Austin Company, Mars, Pa. Filed May 1, 1953. (Sec. 2f.)

AUSTIN'S
A1
BLEACH

Exclusive rights to the word "Bleach" are not claimed apart from the rest of the mark.
For Bleach for Laundry and Household Uses.
Claims use since Feb. 11, 1930.

Ser. No. 646,358. Brea Chemicals, Inc., Los Angeles, Calif. Filed May 4, 1953.

Brea

For Ammonia and Ammonium Compounds—Namely, Ammonium Sulfate, Sulfur, and Mercaptans.
Claims use since Apr. 24, 1953.

Ser. No. 646,616. Irvington Varnish & Insulator Company, Irvington, N. J., assignor to Minnesota Mining and Manufacturing Company, St. Paul, Minn., a corporation of Delaware. Filed May 7, 1953.

F-K

For Furfuraldehyde-Ketone Reaction Products To Be Used in the Compounding of Natural and Synthetic Rubbers, as a Resinous Binder, Resinous Coating, Resin Modifier, and in the Industrial Arts Generally.
Claims use since Mar. 24, 1953.

CLASS 7

CORDAGE

Ser. No. 645,106. The Cellucord Corporation, New York, N. Y. Filed Apr. 13, 1953.

CELLUCORD

For Crushed or Twisted Cord Used in the Closure of Multiwall Paper Bags.
Claims use since Aug. 13, 1951.

Ser. No. 645,708. Hoffman Lion Mills Company, Incorporated, Fall River, Mass. Filed Apr. 22, 1953.

FROSTIE

For Cord.
Claims use since Mar. 25, 1953.

Ser. No. 646,222. The R. A. Kelly Co., Xenia, Ohio. Filed Apr. 30, 1953.

SHAWNEE

For Sisal Rope and Twine.
Claims use since 1930.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 644,669. Frank Industries, Inc., Eau Claire, Wis. Filed Apr. 3, 1953.

JET-A-LARM

The word "A-Larm" is disclaimed apart from the mark as shown.
For Fire Alarms of a Type Containing an Explosive Element and a Firing Pin Which Is Released in Response to a Predetermined Temperature.
Claims use since Mar. 23, 1953.

CLASS 10

FERTILIZERS

Ser. No. 646,599. California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif. Filed May 7, 1953.

NAPSUL

Applicant claims ownership of Registration No. 299,042.
For Soil Conditioners.
Claims use since July 15, 1948.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 556,410. The Philip Carey Manufacturing Company, Cincinnati, Ohio. Filed May 7, 1948. (Sec. 2f.)

CAREYCEL

Applicant claims ownership of Registrations Nos. 105,340 and 134,525.
For Accessories for Air Conditioning, Heating, and Ventilating Systems—Namely, Precast Asbestos Slabs or Sheets for Insulating Ovens, Kilns, and Air Conditioning Ducts.
Claims use since July 1, 1935.

Ser. No. 574,036. Johns-Manville Corporation, New York, N. Y. Filed Feb. 17, 1949.

TAPER-TITE

For Asbestos-Cement Pipe Couplings.
Claims use since March 1945.

Ser. No. 618,097. Pacific Plastics Company, Renton, Wash. Filed Aug. 25, 1951.

FIBERPANE

For Hard Resinous Plastic Sheets Sold in Stock Sizes To Be Cut to Desired Shape and Size for Construction Purposes.
Claims use since Aug. 9, 1949.

Ser. No. 619,139. James C. Johnston, Fort Lauderdale, Fla. Filed Sept. 22, 1951. (Sec. 2f.)

SLIPSEAL

For Preformed Sewer Pipe Joints Made of a Waterproof and Sealing Compound.
Claims use since Oct. 1, 1930.

Ser. No. 626,173. The Reardon Company, St. Louis County, Mo. Filed Mar. 8, 1952. (Sec. 2f as to "Reardon.")

REARDON



Applicant claims ownership of Registration No. 260,703.
For Joint Cement; Patching Plaster, Tile Cement; Putty; and Spackling Compounds.
Claims use since May 15, 1948.

Ser. No. 629,890. Douglas Fir Plywood Association, Tacoma, Wash. Filed May 19, 1952. COLLECTIVE MARK.

HANDY ANDY

For Plywood.
Claims use since Feb. 20, 1952.

Ser. No. 630,855. Revertex Limited, London, England. Filed June 6, 1952.

PLASOLEUM

Applicant claims ownership of British Registration No. 629,649, dated June 2, 1944.

For Quick Setting Compound in Liquid or Powder State Composed of Natural or Synthetic Resins With Cementitious Material Which Is Applicable in Cold, Plastic State to Roads, Aerodrome Runways, Swimming Pool Walls, Tennis Courts, Walls and Floors of Building Structures Subject to Water, Brine, Urine, Dilute Acids, and Alkalis, and Which Serves as a Leveler and Protective Surfacer or Covering for Uneven and Damaged Flooring and as an Insulation and Waterproof Underlay Suitable for Laying Linoleum, Sheet Rubber, Cork, Tile, and Carpeting Materials in the Motor and Aircraft Industries.

Ser. No. 633,632. S. A. des Ciments Portland Liegeois, Haccourt, Belgium. Filed Aug. 8, 1952.

HACCOURT H CEMENT

No claim is made to the word "Cement" apart from the trade-mark as used. Applicant claims ownership of Belgian Registration No. 6,835, dated Nov. 29, 1951.

For Portland Cement.

Ser. No. 634,210. Mundet Cork Corporation, North Bergen, N. J. Filed Aug. 20, 1952. (Sec. 2f.)

Jointite

Applicant claims ownership of Registration No. 193,751.

For Articles Made of Natural Cork, of Cork Particles, and of Cork Composition—Namely, Cork Insulation, Cork Pipe Covering, and Cork Tile.

Claims use since in or about 1918.

Ser. No. 634,424. Tennessee Products & Chemical Corporation, Nashville, Tenn. Filed Aug. 25, 1952.



The drawing is lined for blue and red.

For Plaster, Concrete, Cement, Mineral Wool for Insulation Purposes in Loose Form and in the Forms of Batts and Blankets.

Claims use since Apr. 1, 1951.

Ser. No. 638,640. Drywall Trim, Inc., New York, N. Y. Filed Nov. 26, 1952.



Applicant disclaims any right in and to the words "Corner Guard."

For Metal Corner and Edge Guards for Exterior Wall Board Corners.

Claims use since Sept. 1, 1952.

Ser. No. 639,094. Woodall Industries, Incorporated, Detroit, Mich. Filed Dec. 5, 1952.

ARMADALL

For Resin Fibrous Composition Sheet Material for Construction Purposes.

Claims use since about the middle of November 1951.

Ser. No. 639,095. Woodall Industries, Incorporated, Detroit, Mich. Filed Dec. 5, 1952.

PERFORALL

For Fibrous Composition Sheet Material for Construction Purposes.

Claims use since about Apr. 1, 1952.

Ser. No. 644,673. Kool Vent Metal Awning Corporation of America, Pittsburgh, Pa. Filed Apr. 3, 1953.

Kay-Vee

For Metal Awnings.

Claims use since Aug. 23, 1951.

Ser. No. 645,006. Pittsburgh Coke & Chemical Company, Pittsburgh and Neville Island, Pittsburgh, Pa. Filed Apr. 9, 1953.

GB

For Cement and Mortar.

Claims use since June 15, 1933.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 629,397. Spraying Systems Co., Bellwood, Ill. Filed May 8, 1952. (Sec. 2f.)

VEEJET

For Nozzles for Spraying Liquids.

Claims use since March 1944.

Ser. No. 631,967. All-Power Manufacturing Co., Montebello, Calif. Filed June 30, 1952. (Sec. 2f.)

No-Drip

Applicant claims ownership of Registration No. 297,128.

For Sink Strainers.

Claims use since Apr. 15, 1931.

Ser. No. 636,451. Acme Staple Company, Camden, N. J. Filed Oct. 10, 1952.

LOK-LID

For Staples for Use in Stapling Machines, Tagging Machines, Binding Machines, Stitching Machines, and Tacking Machines.

Claims use since October 1938.

Ser. No. 636,453. Acme Staple Company, Camden, N. J. Filed Oct. 10, 1952.

WIRE LOK

For Staples for Use in Stapling Machines, Tagging Machines, Binding Machines, Stitching Machines, and Tacking Machines.

Claims use since Sept. 10, 1952.

Ser. No. 643,820. Darling Valve & Manufacturing Company, Williamsport, Pa. Filed Mar. 18, 1953.

B50B

For Fire Hydrants.

Claims use since June 7, 1951.

Ser. No. 644,453. Reish Products, Inc., South Bend, Ind. Filed Mar. 30, 1953.

TEMP-TAINERS

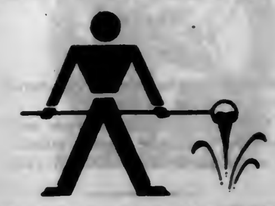
For Metal Combination Storing, Freezing, and Cooking Containers.

Claims use since Oct. 1, 1952.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 608,297. Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y. Filed Jan. 3, 1951.



For Aluminum, Antimony, Arsenic, Babbit, Beryllium, Bismuth, Brass, Bronze, Brazing Alloys, Cadmium, Calcium, Cerro Alloys, Chromium, Cobalt, Copper, Ferro Alloys, Iron and Steel Filings, Lead, Lithium, Low Melting Alloys, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Powdered Metals, Semi Rare Metals, Selenium, Solders, Tin, Tungsten, Type Metals, White Casting Metals, and Zinc.

Claims use since January 1945.

Ser. No. 616,804. Albion Malleable Iron Company, Albion, Mich. Filed July 23, 1951.



For Un-Machined Rough Malleable Castings.

Claims use since 1900.

Ser. No. 622,650. Globe Ring Co., New York and Brooklyn, N. Y. Filed Dec. 18, 1951.

Snowcraft

For Metal Castings for Jewelry Findings for Finger Rings, Earrings, Pendants, and Brooches.

Claims use since Nov. 19, 1951.

Ser. No. 625,836. A. E. Ulmann & Associates, Ltd., New York, N. Y. Filed Mar. 1, 1952.

BRAZINAL

For Welding Rods and Welding Alloys, in Particular for Welding of Non-Ferrous Metals.

Claims use since November 1951.

Ser. No. 627,119. Econocast, Inc., Chattanooga, Tenn. Filed Mar. 27, 1952.

ECONOCAST

For Metal Castings of Both Ferrous and Non-Ferrous Materials Made to Customer Specifications.

Claims use since on or about Sept. 1, 1950.

Ser. No. 627,120. Econocast, Inc., Chattanooga, Tenn. Filed Mar. 27, 1952.

IMPROVED ECONOCAST CASTINGS

No claim is made to the words "Improved" and "Castings" apart from the mark as shown.

For Metal Castings of Both Ferrous and Non-Ferrous Materials Made to Customer Specifications.

Claims use since on or about Jan. 1, 1952.

Ser. No. 630,296. Jackson-Wheeler Metals Service, Inc., Brooklyn, N. Y. Filed May 9, 1952. (Sec. 2f.)

TUF-TIN

"Tin" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 336,981.

For Bearing Alloys, Babbitt Metals, and White-Metal Alloys, Used as Anti-Frictional Media.

Claims use since Oct. 27, 1931.

CLASS 15

OILS AND GREASES

Ser. No. 626,492. Brewer & Eliot, Inc., Boston, Mass. Filed Mar. 15, 1952.

BEMOL

For Lubricants of the Type Containing Molybdenum Disulfide and Employed in Lubricating Machine Parts.

Claims use since Feb. 8, 1952.

Ser. No. 641,827. American Lignite Products Co., Ione, Calif. Filed Feb. 6, 1953.

ALPCO

For Mineral Wax Prepared From Montanic Acids, Wax Esters, and Montanic Alcohols.

Claims use since June 16, 1948.

Ser. No. 642,630. Electrofilm Corporation, North Hollywood, Calif. Filed Feb. 24, 1953.

Lubri-bond

The word "Bond" is disclaimed apart from the mark as shown.

For Graphite and Finely Divided Metallic Lubricating Compositions Applicable in Liquid Form to Metallic Surfaces and Bondable Thereto by Drying.

Claims use since Dec. 5, 1952.

Ser. No. 646,439. Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Filed May 4, 1953.

PACIFIC

For Motor Fuels and Lubricating Oils.

Claims use since Apr. 24, 1953.

Ser. No. 646,654. Paul A. Chadwell, doing business under the name of American International Co., Washington, D. C. Filed May 8, 1953.

MONUMENTALS

For Wax Candles.

Claims use since on or about Feb. 19, 1952.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 607,554. Dr. L. D. Le Gear Medicine Company, St. Louis, Mo. Filed Dec. 11, 1950. (Sec. 2f as to "Dr. Le Gear's.")

DR. LEGEAR'S **PLUS** FOR POULTRY

Exclusive use of the expression "For Poultry" is not claimed apart from the rest of the mark. The name and portrait are that of Dr. L. D. Le Gear's. The wording under the portrait is as follows: "Dr. L. D. Le Gear's V. S. (In Surgeon's Robe)." Applicant claims ownership of Registration No. 527,159.

For Therapeutic Mineral and Vitamin Supplement for Poultry Feed.

Claims use since Oct. 12, 1950, as to the mark shown; and since Oct. 15, 1918, as to the name "Dr. Le Gear's."

Ser. No. 630,388. Causyth S. P. A., Milan, Italy. Filed May 28, 1952.

COFLAVINASI - A.M.N.

Priority under Sec. 44(d). Italian application filed May 8, 1952, Registration No. 108,288, dated July 18, 1952.

For Medicinal and Pharmaceutical Preparations for Use in the Treatment of Acidosis, Lacticidhaemia, Change of the Metabolism, Pathology of the Liver Including Cirrhosis of the Liver, Cardiopathies, Non-Tropical Sprue, Coliiac Disease, Steatorrhoea, Diabetes, Addison's Disease, Hyperthyroid Conditions, Emeralopia, Vascolarisation of the Cornea, Conjunctivitis, Allergic Conditions, Bronchial Asthma; and as Adjuvant in Acute Infective Conditions, in Prolonged Treatments With Cocarboxylases and Vitamin B_1, in Sulpha and Antibiotic Therapy.

Claims use since May 8, 1952; and since May 8, 1952, in commerce between Italy and the United States.

Ser. No. 635,364. Istituto Farmacoterapico Italiano, Rome, Italy. Filed Sept. 17, 1952.

ANTIMICINA

Priority under Sec. 44(d). Italian application No. 28/468, dated Mar. 31, 1952, Registration No. 108,571, dated Aug. 11, 1952.

For Pharmaceutical Preparation Containing Hydraxide of Isonicotinic Acid for Chemical Therapy Against Micro-Bacteriological Infections.

Ser. No. 639,153. Chicago Pharmacal Company, Chicago, Ill. Filed Dec. 8, 1952.

BECEMOR

For Medicinal Preparation in Pill Form Containing Vitamins and Used in the Treatment of Secondary Anemias and as a Diet Supplement.

Claims use since Nov. 5, 1950.

Ser. No. 640,060. White Laboratories, Inc., Kenilworth, N. J. Filed Dec. 26, 1952.

DUBIOTIC

For Preparation Containing Antibiotic Drugs Intended for the Topical Prevention and Treatment of Infections of Accessible Mucous Membranes.

Claims use since Dec. 15, 1952.

Ser. No. 640,655. The Stuart Company, Pasadena, Calif. Filed Jan. 12, 1953.

Stuart Normacid

The drawing is lined to indicate the color blue. No claim is made herein to the name "Stuart" apart from the mark as shown.

For Medicinal Preparation Containing Betaine Hydrochloride, Pepsin, and Methylcellulose Used in the Treatment of Gastric Subacidity and Pepsin Deficiency.

Claims use since Nov. 24, 1952.

Ser. No. 641,942. Mead Johnson & Company, Evansville, Ind. Filed Feb. 9, 1953.

Levugen

For Fructose in Solution for Parenteral Administration.

Claims use since Nov. 11, 1952.

Ser. No. 642,224. Hormo-Pharma Limited, London, England. Filed Feb. 13, 1953.

OKASA

Applicant claims ownership of British Registration No. 520,235, dated Aug. 16, 1930.

For Tonic Medicine in Tablet Form To Increase Physical and Mental Strength and for Treating General Debility.

Claims use since 1912; and since August 1933, in commerce between foreign nations and the United States.

Ser. No. 642,530. Drug Specialties, Inc., Winston-Salem, N. C. Filed Feb. 20, 1953.

DRU-TUSSA

For Medical Preparation in Elixir and Syrup Form, for Use in Treatment and Relief of Coughs Due to Simple Colds.

Claims use since June 10, 1949.

Ser. No. 642,936. The Borden Company, New York, N. Y. Filed Mar. 2, 1953.

VAMDRY

Applicant claims ownership of Registration No. 440,369.

For Poultry Feed Supplement.

Claims use since Jan. 30, 1953.

Ser. No. 642,980. Mead Johnson & Company, Evansville, Ind. Filed Mar. 2, 1953.

Tri-Mulcin

Applicant claims ownership of Registrations Nos. 414,494, 575,116, and 576,619.

For Emulsion of Vitamins A, D, and C.

Claims use since May 15, 1952.

Ser. No. 642,983. N. V. Koninklijke Pharmaceutische Fabrieken V/H Brocades-Stheeman & Pharmacia, Amsterdam, Netherlands. Filed Mar. 2, 1953.

CYCLOMANDOL

Applicant claims ownership of Dutch Registration No. 111,461, dated Mar. 17, 1952.

For Pharmaceutical Preparation With Antispasmodic Effect to the Blood-Vessels.

Ser. No. 643,388. The Wander Company, Chicago, Ill. Filed Mar. 9, 1953.

DORSACAINE

Applicant claims ownership of Registration No. 556,322.
For Anesthetic Preparation.
Claims use since Feb. 25, 1953.

Ser. No. 644,379. American Home Products Corporation, doing business as Wyeth Laboratories, New York, N. Y., and Philadelphia, Pa. Filed Mar. 30, 1953.

RUBIGUENT

For Rubefacient Medicinal Cream.
Claims use since Mar. 10, 1953.

Ser. No. 646,011. Parke, Davis & Company, Detroit, Mich. Filed Apr. 27, 1953.

PALADAC

Applicant claims ownership of Registrations Nos. 430,332 and 435,118.
For Non-Alcoholic, Aqueous Vitamin Solution.
Claims use since Jan. 27, 1953.

Ser. No. 646,012. Parke, Davis & Company, Detroit, Mich. Filed Apr. 27, 1953.

INDON

For Anti-Coagulant.
Claims use since Mar. 31, 1953.

Ser. No. 646,139. The Knox Company, Los Angeles, Calif. Filed Apr. 29, 1953.

PIELCIN

For Medicated Cream, Pomade, or Ointment Indicated in and for the Care, Hygiene, Preservation, and Treatment of the Skin.
Claims use since Sept. 30, 1952.

Ser. No. 646,194. American Cyanamid Company, New York, N. Y. Filed Apr. 30, 1953.

COMPLIMYCIN

For Antibiotic.
Claims use since Mar. 31, 1953.

Ser. No. 646,228. O. W. Meyer, Napoleon, Ohio. Filed Apr. 30, 1953.

KANDILASS

For Feed Supplement for Livestock and Poultry.
Claims use since Sept. 16, 1948.

Ser. No. 646,266. Campana Corporation, Batavia, Ill. Filed May 1, 1953.

Bantron

For Preparation for Internal Use Intended To Reduce the Desire to Use Tobacco Products.
Claims use since Feb. 10, 1953.

Ser. No. 646,288. Ives-Cameron Company, Inc., New York, N. Y. Filed May 1, 1953.

MONICHOL

Applicant claims ownership of Registration No. 527,884.
For Polysorbate, Choline, and Inositol in Combined Dosage Form.
Claims use since Aug. 24, 1951.

Ser. No. 646,426. Rexall Drug Company, Los Angeles, Calif. Filed May 4, 1953.

COFOVITE

For Liver Concentrate, Ferrous Gluconate With Added Vitamins, Folic Acid, and Copper Sulfate.
Claims use since Dec. 24, 1952.

Ser. No. 646,427. Rexall Drug Company, Los Angeles, Calif. Filed May 4, 1953.

EUDICAINE

For Medicinal Preparations in Ointment and Suppository Forms.
Claims use since Oct. 27, 1937.

Ser. No. 646,428. Rhinopto Company, Dallas, Tex. Filed May 4, 1953.

RHINAMIN

For Antihistaminic Cold Capsules.
Claims use since Feb. 16, 1953.

Ser. No. 646,473. International Biochemical Corporation, Brooklyn, N. Y. Filed May 5, 1953.

GERISTRESS

For Nutritional and Therapeutic Preparation Comprising an Aggregate of Vitamins, Yeast, and Liver.
Claims use since on or about Apr. 21, 1953.

Ser. No. 646,564. The Dr. J. H. McLean Medicine Company, St. Louis, Mo. Filed May 6, 1953.



Applicant claims ownership of Registration No. 91,984.
For Tonic Medicine.
Claims use since before the year 1860.

Ser. No. 646,809. Schenley Laboratories, Inc., New York, N. Y. Filed May 11, 1953.

PIXCOMP

For Skin Ointment.
Claims use since Mar. 13, 1953.

Ser. No. 646,842. Ayerst, McKenna & Harrison Limited, New York, N. Y. Filed May 12, 1953.

MUREL

For Muscle Relaxant and Vitamins in Combined Dosage Form.
Claims use since Apr. 3, 1953.

Ser. No. 646,865. Theodore R. Hill, doing business as The Hill Co., Detroit, Mich. Filed May 12, 1953.

AR-STAR

For Rectal Ointment.
Claims use since Apr. 10, 1952.

Ser. No. 646,885. Mathieson Chemical Corporation, New York, N. Y. Filed May 12, 1953.

DISTRYCIN

Applicant claims ownership of Registration No. 563,862.
For Antibacterial Preparation.
Claims use since Feb. 17, 1953, as shown; and since July 20, 1950, in another form.

Ser. No. 646,917. American Cyanamid Company, New York, N. Y. Filed May 13, 1953.

SYMBIMYCIN

For Antibiotic.
Claims use since Apr. 20, 1953.

Ser. No. 649,210. Chase Chemical Company, Newark, N. J. Filed June 23, 1953.

LIPOZAN

Lipotropic Antispasmodic Bronchodilator, Coronary Vasodilator, and Diuretic.
Claims use since June 3, 1953.

CLASS 19
VEHICLES

Ser. No. 606,322. Polacoat Incorporated, Cincinnati, Ohio. Filed Nov. 13, 1950.

POLACOAT

Applicant claims ownership of Registration No. 444,399.
For Rear View Mirrors for Vehicles.
Claims use since Aug. 20, 1947.

Ser. No. 622,899. Seymour Kulwin, doing business as Jeffrey-Allan Industries, Chicago, Ill. Filed Dec. 27, 1951. (Sec. 2f.)

JEFFREY-ALLAN

The mark comprises the first and second given names of Jeffrey Allan Kulwin, Applicant's Infant Son.
For Dashboard Trays, and Decorative Devices for Motor Vehicles—Namely, Stars, V's, Rockets, and Jet-Lined "Portholes."
Claims use since July 11, 1950.

Ser. No. 651,099. Flandria Cycle Corporation, New York, N. Y. Filed July 30, 1953.

flandria

For Bicycles.
Claims use since February 1953.

Ser. No. 651,422. Storkline Furniture Corporation, Chicago, Ill. Filed Aug. 5, 1953.



Applicant claims ownership of Registrations Nos. 144,237, 283,608, and others.
For Baby Strollers, Baby Carriages, Baby Coaches, and Children's Combination Walker-Strollers.
Claims use since 1919.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 601,637. Naxon Utilities Corporation, Chicago, Ill. Filed Aug. 2, 1950.

FRYMASTER

For Electric Griddles, Electric Frying Pans, Electric Deep Fat Fryers.
Claims use since April 1938.

Ser. No. 629,156. Electro Manufacturing Corporation, Chicago, Ill. Filed May 3, 1952. (Sec. 2f.)

ELECTRO

Applicant claims ownership of Registrations Nos. 412,349, 507,582, and 509,498.
For Fluorescent Lighting Apparatus—Namely, Lighting Fixtures and Parts Therefor, Bed Lamps, and Germicidal Lamps.
Claims use since Jan. 1, 1932.

Ser. No. 631,668. International Telephone and Telegraph Corporation, New York, N. Y. Filed June 24, 1952.

IT&T

For Telephone Switching Systems and Apparatus Therefor—Namely, Automatic Central Office and Rural Systems, Regional Dialling Systems, Private Automatic Branch Exchanges, Private Automatic Exchanges, and Manual Switchboards; Telephone Subscribers' Station Apparatus; Electric Wave Signal Transmission Systems and Apparatus Therefor—Namely, Carrier Wave Systems and Equipment, Electric Pulse Signal Transmission Systems and Equipment, Voice Frequency Signalling Systems, Voice Frequecy Repeaters, Loading Coils, Electric Wave Generators, Amplifiers, Modulators, and Demodulators; Radio Broadcast and Television Transmitters; Point-to-Point Radio Transmitters and Receivers; Radio Antennas; Radio Frequency Transmission Lines; Cables and Wires for Electric Signalling Systems; Radio Broadcast and Television Receivers Alone or in Combination With Electric Phonographs; Electric Signalling, Alarm and Indicating Systems and Apparatus Therefor; Electric Cables and Wires for Communication Systems; Facsimile Transmission Systems and Equipment; Record Communication Apparatus—Namely, Telegraph Printers, Perforators, and Reperforators; Selenium Rectifiers and Rectifying Equipment Including Power Supplies, Voltage Regulators, and Cathodic Protection Devices; Electric Power Plant Assemblies; Vacuum and Gas Tubes, Cathode Ray Picture Tubes; Electric Transformers, Coils, and Filters.
Claims use since Jan. 30, 1943.

Ser. No. 643,584. The Dry-O-Matic Company, Detroit, Mich. Filed Mar. 13, 1953.

DRY-O-MATIC

For Apparatus for Training a Child To Prevent Bedwetting, Such Apparatus Comprising an Electrical Circuit, a Sound-Producing Signal Controlled by Such Circuit, and a Controller for Such Circuit Disposable in a Bed and Formed by Two Liquid-Permeable Electrical Conductors in Sheet Form, and a Liquid-Permeable and Normally Insulating Sheet Between the Conductors.
Claims use since Feb. 9, 1953.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 628,739. Bass River Tackle Testers, Bass River, Mass. Filed Apr. 26, 1952.

SEA SQUIRMS

The word "Sea" is disclaimed apart from the mark as shown.
For Artificial Fishing Lure.
Claims use since Mar. 1, 1952.

Ser. No. 635,983. Wales Game Systems, Inc., Buffalo, N. Y. Filed Sept. 30, 1952.

MONTEZUMA

For Board Games Played With Movable Game Pieces.
Claims use since Mar. 10, 1952.

Ser. No. 635,985. Wales Game Systems, Inc., Buffalo, N. Y. Filed Sept. 30, 1952.

STAMPEDE

For Board Games Played With Movable Game Pieces.
Claims use since Mar. 10, 1952.

Ser. No. 635,987. Wales Game Systems, Inc., Buffalo, N. Y. Filed Sept. 30, 1952.

VAQUERO

For Board Games Played With Movable Playing Pieces.
Claims use since Mar. 10, 1952.

Ser. No. 647,670. Vulcan Corporation, Portsmouth, Ohio. Filed May 25, 1953.

VULCANATE

Applicant claims ownership of Registration No. 576,474.
For Bowling Pins.
Claims use since Feb. 13, 1953.

Ser. No. 650,709. The Hoover Company, North Canton, Ohio. Filed July 23, 1953. (Sec. 2f.)

HOOVER

Applicant claims ownership of Registrations Nos. 130,756, 165,890, and others.
For Toy Suction Cleaners.
Claims use since Sept. 21, 1952.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 504,033. Cloth Laying Appliances Corp., Woodside, N. Y. Original filed, act of 1905, June 17, 1946; amended to application under act of 1946, Principal Register, Feb. 10, 1948.

C. R. A.

For Laying and Spreading Machines, Pin Bar Tools Used in Holding Material on a Cutting Table, and Tools Consisting of Metal Slabs Used in Holding Down Material and Keeping Layers of Material in Place, and Marking Apparatus for Making Multiple Copies of Patterns for Clothing Manufacture.
Claims use since 1913.

Ser. No. 584,642. Acquilla R. Ruth, York, Pa. Filed Sept. 9, 1949.

RECO

For Radiator Cleaners—Namely, Electrically Powered, Pumping Units for Circulating Cleaning Fluids Over the Internal Surfaces of Radiators, Specifically Automobile Radiators.
Claims use since Mar. 19, 1947.

Ser. No. 594,789. Imperial Chemical Industries Limited, London, England. Filed Mar. 28, 1950.

ICI

Applicant claims ownership of British Registrations Nos. 507,722, 507,723, 507,726, and 507,727, all dated Nov. 12, 1929.
For Agricultural and Horticultural Sprayers; Carburetors; Copper Plate Printing Presses; and Cutting Rings.

Ser. No. 604,474. Fullerform, Inc., Phoenix, Ariz. Filed Oct. 5, 1950.

FULLERFORM

For Irrigation Ditch Lining Equipment—Namely, Ditch Forming Plows and Portable Slip Form Apparatus for Applying Lining Materials to Preformed Ditches.
Claims use since Dec. 31, 1947.

Ser. No. 619,612. Estwing Manufacturing Company, Incorporated, Rockford, Ill. Filed Oct. 5, 1951. (Sec. 2f.)

UNBREAKABLE

For Hammers and Hatchets.
Claims use since July 1, 1923.

Ser. No. 621,663. The Fawick Airflex Company, Inc., Cleveland, Ohio, assignor to Federal Fawick Corporation, a corporation of Michigan. Filed Nov. 26, 1951.



Applicant disclaims the pictorial representation of a clutch, brake, or coupling apart from the mark as shown.
For Industrial and Marine Clutches, Marine Power Transmissions, Industrial Brakes, and Flexible Shaft Couplings, the Goods in Each Instance Comprising a Fluid-Distensible Gripping Member and Being Adapted for Sustension of Torque.
Claims use since November 1947.

Ser. No. 621,664. The Fawick Airflex Company, Inc., Cleveland, Ohio, assignor to Federal Fawick Corporation, a corporation of Michigan. Filed Nov. 26, 1951.

Airflex

For Industrial and Marine Clutches, Marine Power Transmissions, Industrial Brakes, and Shaft Couplings.
Claims use since July 1941.

Ser. No. 630,236. Toro Manufacturing Corporation of Minnesota, Minneapolis, Minn. Filed May 24, 1952.

Sport Lawn

The word "Lawn" when used apart from the mark is disclaimed.
For Lawn Mowers.
Claims use since on or about Jan. 1, 1948.

Ser. No. 630,942. William H. Mead, San Mateo, Calif. Filed June 9, 1952.

VACU-VEYOR

For Portable Machines for Conveying Granular Material in a Stream of Air or Water or Other Fluids.
Claims use since Apr. 14, 1948.

Ser. No. 632,569. Morse Sewing Machine and Supply Corp., New York, N. Y. Filed July 15, 1952.

Fotomatic

For Sewing Machines.
Claims use since July 1, 1952.

Ser. No. 634,244. Decatur Pump Company, Decatur, Ill. Filed Aug. 21, 1952.

Turbinette

The lining on the drawing indicates shading only. Applicant claims ownership of Registration No. 269,438.
For Water Pumps and Water Pumping Units Which Include a Pump Support, Pump, Electric Motor, Storage Tank, Control Switch, and Strainer Sold as a Unit, and Parts Thereof.
Claims use since Oct. 27, 1929.

Ser. No. 636,452. Acme Staple Company, Camden, N. J. Filed Oct. 10, 1952.

LOK-LID

For Stapling Machines, Binding Machines Using Metal Staples, and Tacking Machines Using Metal Staples.
Claims use since October 1938.

Ser. No. 637,158. Underwood Corporation, New York, N. Y. Filed Oct. 24, 1952.

VIDEOTYPER

For Typewriters and Parts Thereof.
Claims use since Aug. 17, 1952.

Ser. No. 638,225. Toro Manufacturing Corporation of Minnesota, Minneapolis, Minn. Filed Nov. 17, 1952.

SNOW HOUND

The word "Snow" when used apart from the mark is disclaimed.
For Rotary Snow Plows.
Claims use since on or about Jan. 1, 1941.

Ser. No. 639,239. Oxwall Tool Co., Ltd., New York, N. Y. Filed Dec. 9, 1952.



Applicant claims ownership of Registration No. 443,914.
For Magnetized Screw-Drivers.
Claims use since Nov. 26, 1952.

Ser. No. 645,725. National Silver Company, New York, N. Y. Filed Apr. 22, 1953.

KRONOR

For Base Metal Table Cutlery—Namely, Knives, Forks, and Spoons.
Claims use since Feb. 12, 1953.

Ser. No. 645,733. Roller Bearing Company of America, West Trenton, N. J. Filed Apr. 22, 1953.

RBC

For Roller Bearings.
Claims use since Jan. 2, 1936.

Ser. No. 646,775. Lloyd H. Knost, doing business as Reed Engineering Company, Carthage, Mo. Filed May 11, 1953. (Sec. 2f.)

REED

For Plate Bending Rolls, Slip Roll Forming Machines, Tank Turning Rolls, Jigs, and Fixtures for Automatic Welding, Horn Type Backup Jigs, and Idler Stands Equipped With Roller Wheels for Holding and Positioning Work Pieces.
Claims use since Oct. 1, 1944.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 633,217. Rayelle Foreign Trade Service, Philadelphia, Pa. Filed July 29, 1952.

Konica

For Cameras and Camera Cases, Flash Guns, Filters, and Lens-Hoods.
Claims use since Jan. 12, 1950.

Ser. No. 633,946. Rohr Aircraft Corporation, Chula Vista, Calif. Filed Aug. 14, 1952.

SP METER

The word "Meter" is disclaimed.
For Electrical Instrument for Indicating the Surface Cleanness of Sheet Metal.
Claims use since on or about May 1, 1952.

Ser. No. 635,911. Flite-Tronics, Inc., Burbank, Calif. Filed Sept. 29, 1952.



For Aircraft Marker Beacon Receiver Including Direction-Indicating and/or Position-Indicating Means.
Claims use since May 23, 1952.

Ser. No. 644,658. Librascope, Incorporated, Glendale, Calif. Filed Mar. 26, 1953.

LIBRASCOPE

Applicant claims ownership of Registration No. 372,767.
For Balance Computers, i. e., Instruments for Computing the Location of the Load Center of the Aircraft Under Varying Load Distribution; Anti-Aircraft Fire Control Computers; Sonar Position Keepers; Tristimulus Integrators, i. e., Computers for Color Analysis; Integrators; Operational Recorders, i. e., Graphic Recorders of General Utility; Square Root Planimeters; and Periscopes.
Claims use since Sept. 14, 1937.

Ser. No. 645,017. Three Dimension Company, Chicago, Ill. Filed Apr. 9, 1953.

PRESTOMOUNT

For Slide Mount for Stereopticon Projectors.
Claims use since December 1952.

Ser. No. 645,021. Vistarama, Incorporated, Beverly Hills, Calif. Filed Apr. 9, 1953.

VISTARAMA

For Three-Dimensional Motion Pictures.
Claims use since Mar. 10, 1953.

Ser. No. 645,176. Minnesota Mining and Manufacturing Company, St. Paul, Minn. Filed Apr. 13, 1953.

SCOTCH

Applicant claims ownership of Registrations Nos. 568,452, 551,728, and others.
For Machines for Measuring and Dispensing Definite Lengths of Adhesive Tape.
Claims use since Dec. 1, 1950.

Ser. No. 645,292. De Vry Corporation, Chicago, Ill. Filed Apr. 15, 1953.

JAN

For Motion Picture Sound Projectors.
Claims use since February 1949.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 603,289. Felca S. A., Granges, Switzerland. Filed Sept. 8, 1950.

Felca

Applicant claims ownership of Swiss Registration No. 104,897, dated July 12, 1943.
For Watches, and Parts of Watches.

Ser. No. 639,497. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern Brothers

For Travel Clocks.
Claims use since 1867.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 636,991. Michaels & Co. Inc., Brooklyn, N. Y. Filed Oct. 22, 1952.

MICO

For Jewelry and Precious Metalware—Namely, Anklets; Bracelets; Earrings; Pearls; Wedding Rings; Finger Rings; Engagement Rings; Flat and Hollow Tableware; Trays; Pendants; Women's Clips; Women's Pins; Cuff Links; Tie Clips for Men; Menorahs Made Wholly or Partly of Precious Metal; Religious Jewelry—Namely, Rosaries, Crucifixes, Crosses, Medals, and Chains Therefor, for Personal Wear; and Mezuzas.
Claims use since Sept. 19, 1952.

Ser. No. 639,498. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern Brothers

For Costume Jewelry—Namely, Earrings, Necklaces, Bracelets, Pins, Rings, Hair Ornaments Made Wholly or Partly of or Plated With Precious Metal; Brooches, Finger Rings, Watch Straps and Bands, Belt Buckles, and Carving Sets Made Wholly or Partly of or Plated With Precious Metal, Flatware and Hollow Ware Made of Sterling Silver or Silver Plated.
Claims use since 1867.

Ser. No. 639,515. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern's

For Costume Jewelry—Namely, Earrings, Necklaces, Bracelets, Pins, Rings, Hair Ornaments Made Wholly or Partly of or Plated With Precious Metal; Brooches, Finger Rings, Watch Straps and Bands, Belt Buckles, and Carving Sets Made Wholly or Partly of or Plated With Precious Metal, Flatware and Hollow Ware Made of Sterling Silver or Silver Plated.
Claims use since 1932.

Ser. No. 640,350. Ruth Easley Moore, Washington, D. C. Filed Jan. 5, 1953.

VOODOOSKEDADDLE

For Amulet Made of Precious Metal.
Claims use since Nov. 22, 1952.

Ser. No. 641,685. Ruth Easley Moore, Washington, D. C. Filed Feb. 3, 1953.

HOODOOSKIDOO

For Amulet Made of Precious Metal.
Claims use since Nov. 22, 1952.

Ser. No. 644,613. Gemex Company, Union, N. J. Filed Apr. 2, 1953.

FLAMINGO

For Bracelets and Watch Bracelets and Watch Straps.
Claims use since Mar. 20, 1953.

Ser. No. 644,908. Gemex Company, Union, N. J. Filed Apr. 8, 1953.

CHIEFTAIN

For Bracelets and Watch Bracelets and Watch Straps.
Claims use since Mar. 26, 1953.

Ser. No. 644,909. Gemex Company, Union, N. J. Filed Apr. 8, 1953.

OVERTURE

For Bracelets and Watch Bracelets and Watch Straps.
Claims use since Mar. 27, 1953.

Ser. No. 644,910. Gemex Company, Union, N. J. Filed Apr. 8, 1953.

SPRINGTIME

For Bracelets and Watch Bracelets and Watch Straps.
Claims use since Mar. 27, 1953.

Ser. No. 645,798. Gemex Company, Union, N. J. Filed Apr. 23, 1953.

SPRITE

For Bracelets and Watch Bracelets and Watch Straps.
Claims use since Apr. 10, 1953.

Ser. No. 646,544. Gemex Company, Union, N. J. Filed May 6, 1953.

DEBONAIR

For Bracelets and Watch Bracelets and Watch Straps.
Claims use since Apr. 20, 1953.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 568,696. Joseph A. Voss, doing business as The Voss Patents and Sales Company, Denver, Colo., assignor to Gertrude S. Tenderich, Denver, Colo. Filed Nov. 12, 1948.

APLI-ETTE

For Gravity Fed and Dip Type Liquid Brushes or Felt Pad Applicators Useful in the Application of Liquids to the Skin and Hair or Other Parts of the Body.
Claims use since August 1947.

Ser. No. 642,951. Corcoran Mfg. Co., Long Beach, Calif. Filed Mar. 2, 1953.

Merry Mop

The word "Mop" is disclaimed apart from the mark as shown.
For Floor Mops.
Claims use since Feb. 12, 1953.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 609,182. The Milk Farm, Dixon, Calif. Filed Jan. 24, 1951.



For Gift Shop Items—Namely, Earthenware and Porcelain Dishes, Cups, Saucers, Trays, and Platters, Salt and Pepper Shakers, Bowls, Vases, Jars, and Pots.
Claims use since Sept. 1, 1942.

Ser. No. 619,822. Easterling China Company, Chicago, Ill. Filed Oct. 10, 1951.

Spencerian Rose

No claim to the right of exclusive use of the word "Rose" is made apart from the mark as shown.
For China Tableware.
Claims use since July 14, 1951.

Ser. No. 635,313. Lipper & Mann, Inc., New York, N. Y. Filed Sept. 16, 1952.

Blue Danube

For Chinaware Consisting of Tea Cups and Saucers, Coffee Cups and Saucers, After-Dinner Coffee Cups and Saucers, Dinner Plates, Salad Plates, Bread and Butter Plates, Platters, Vegetable Dishes, Soup Tureens With Trays, Teapot, Sugar and Creamer, Fruit Saucers, Gravy Boat, Covered Soup Ramekins, and Soup Plates.
Claims use since Sept. 15, 1951.

Ser. No. 639,490. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern Brothers

For Ceramic Articles—Namely, Tea Pots, Coffee Pots, Mustard Pots, Bean Pots, Stew Pots, Cups, Saucers, Plates, Platters, Soup Dishes, Bowls, Mugs, Dessert Dishes, Casseroles, Tureens, Pitchers, Creamers, Cruets, Hors d'Oeuvre Sets, Baking Dishes, Baking Shells, Pipkins, Petite Marmites, Salt and Pepper Sets, Jugs, and Jars.
Claims use since 1867.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 642,383. American Larder Supply Company, Chicago, Ill. Filed Feb. 18, 1953.

ALSCO

For Food Freezer for Household and Commercial Use.
Claims use since Jan. 5, 1953.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 637,998. Bjorn Kjellstrom, La Porte, Ind. Filed Nov. 13, 1952.

SILVA

Applicant claims ownership of Registrations Nos. 378,365 and 381,413.
For Serving Trays, Sets of Serving Trays, Tray Tables, Collapsible Tables, and Tea Tables.
Claims use since 1943.

Ser. No. 641,096. John E. Sjostrom Company, Philadelphia, Pa. Filed Jan. 21, 1953.

Unaflex

For Laboratory Furniture, More Particularly Consisting of Storage Cases and Cabinets, Chairs and Stools, Physics Apparatus Cases, Chemical and Apparatus Storage Cases, Microscope Display Cases, Apparatus and Supply Tables Without Special Laboratory Fittings, Movable Laboratory Cabinets, Balance Shelves, Laboratory Cabinet Bases, Utility Tables, and Laboratory Reagent Shelves.
Claims use since Oct. 30, 1952.

CLASS 33

GLASSWARE

Ser. No. 639,501. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern Brothers

For Drinking Glasses and Tumblers, Luncheon Sets, Bowls, Ovenware and Fireproof Cooking Ware, Tableware, Tray Sets, Decanters, Cruets, Stemware, Salt and Pepper Shakers, and Vases, All Made of Glass.
Claims use since 1867.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 633,644. The Winnen Incinerator Company, Bedford, Ohio. Filed Aug. 8, 1952.

WINCINATOR

For Commercial and Domestic Incinerators.
Claims use since about June 14, 1952.

Ser. No. 638,067. Cox Manufacturing Company, Ridgeville, Ind. Filed Nov. 14, 1952.

Wondaire

For Oil Fired Furnaces, Gas Fired Furnaces, Heat Exchangers, Gas Fired Air Conditioning Units, Forced Warm Air Furnaces, Suspended Furnaces, and Horizontal Furnaces.
Claims use since Apr. 1, 1951.

Ser. No. 642,933. David Berger, doing business as Berger Furnace Manufacturing Co., Pittsburgh, Pa. Filed Mar. 2, 1953.

PERIM-A-BASE

The word "Base" apart from the mark as shown is disclaimed.
For Air Conditioning Equipment—Namely, Furnaces, Air Distributing Ducts, and Registers.
Claims use since Oct. 7, 1952.

Ser. No. 643,181. Oran Company, Columbus, Ohio. Filed Mar. 5, 1953.

ORAN

For Domestic Furnaces.
Claims use since June 2, 1948.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 638,790. Balkamp, Inc., Indianapolis, Ind. Filed Dec. 1, 1952.

OILOK

For Gasket Material—Namely, Treated Gasket Paper, Compressed Asbestos, and Grain Cork.
Claims use since June 1952.

Ser. No. 649,392. Selberling Rubber Company, Barberton, Ohio. Filed June 25, 1953.

HOLIDAY

For Pneumatic Rubber Tires.
Claims use since May 4, 1953.

Ser. No. 649,515. Laber Spring and Tire Corporation, Oakland, Calif. Filed June 29, 1953.



For Automobile and Truck Pneumatic Tires.
Claims use since May 15, 1953.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 639,629. General Electric Company, Schenectady, N. Y. Filed Dec. 17, 1952.

BATON

For Phonograph Styli for Grooved Phonograph Records.
Claims use since on or about April 1950.

Ser. No. 644,011. Vincent Castiglione, doing business as Castiglione Accordion Company, Detroit, Mich. Filed Mar. 23, 1953.



For Accordions.
Claims use since on or about Feb. 2, 1953.

Ser. No. 644,271. Ace-Hi Records, Inc., Los Angeles and Beverly Hills, Calif. Filed Mar. 27, 1953.



The word "Hits" is disclaimed apart from the mark as shown.
For Grooved Phonograph Records.
Claims use since Nov. 14, 1952.

CLASS 37

PAPER AND STATIONERY

Ser. No. 618,183. Frank Smythson Limited, London, England. Filed Aug. 28, 1951. (Sec. 2f.)



The geographical name "London" and the word "Featherweight" are disclaimed apart from the mark as shown in the drawing. Applicant claims ownership of Registration No. 264,591.
For Writing Paper.
Claims use since Oct. 1, 1909; and use in commerce between Great Britain and the United States since July 1929.

Ser. No. 623,539. Fletcher Paper Company, Alpena, Mich. Filed Jan. 14, 1952.

NORTH STAR

Applicant claims ownership of Registration No. 286,160.
For Printing Paper.
Claims use since Dec. 17, 1951.

Ser. No. 632,359. Ecusta Paper Corporation, Pisgah Forest, N. C. Filed July 10, 1952. (Sec. 2f.)

Flax-opake

For Bible and Printing Papers.
Claims use since August 1946.

Ser. No. 635,491. David Pinkas, doing business as The Jem Company, South Norwalk, Conn. Filed Sept. 19, 1952.



For Partially Printed Tickets To Be Attached to Watches and Other Jewelry During the Repair Thereof.
Claims use since Aug. 22, 1952.

Ser. No. 635,510. The Ajax Box Company, Chicago, Ill. Filed Sept. 20, 1952.

Win-do-dec

The word "Win-do" is disclaimed.
Applicant claims ownership of Registration No. 502,430.
For Corrugated Paper.
Claims use since July 20, 1939.

Ser. No. 645,180. National Blank Book Company, Holyoke and Riverside, Holyoke, Mass. Filed Apr. 13, 1953.

LEARN EASE

For Notebooks.
Claims use since Mar. 19, 1953.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 637,317. Meat Merchandising, Inc., St. Louis, Mo. (Filed Oct. 29, 1952. (Sec. 2f as to "Meat Merchandising.")



The words "Fresh," "Frozen," and "Food" are each disclaimed apart from the mark shown. The drawing is lined to indicate red but applicant does not limit itself to the use of this particular color. Applicant claims ownership of Registration No. 506,927.
For Periodical for Food Retailers.
Claims use since Sept. 29, 1952, as shown; and since February 1924 as to the words "Meat Merchandising."

CLASS 39

CLOTHING

Ser. No. 569,813. Clearfield Furs, Inc., Clearfield, Pa. Filed Dec. 3, 1948. (Sec. 2f.)



The expressions "The Mark of American Quality," and "House of American Quality" and the word "Furs" are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 391,196.
For Wearing Apparel—Namely, Fur Scarfs, Fur Muffs, Fur Hats, Fur Capes, Fur Coats, Fur Jackets, Fur Collars, Cloth Coats, Jackets and Capes With Fur Collars or Fur Linings for Women and Girls, and Fur Coats and Jackets, Cloth Coats and Jackets With Fur Linings or Collars, Cloth Coats With Fur Collars for Men and Boys.
Claims use since Apr. 15, 1929.

Ser. No. 608,527. American Blouse Co. Inc., New York, N. Y. Filed Jan. 9, 1951.

Bobby Aiken

The name "Bobby Aiken" is fanciful.
For Boys' Inner and Outer Shirts and Shorts.
Claims use since on or about Dec. 15, 1945.

Ser. No. 612,474. Safety Box Toe Company, Boston, Mass. Filed Apr. 10, 1951.



For Steel Box Toes for Shoes.
Claims use since Apr. 21, 1950.

Ser. No. 613,346. J. W. Robinson Co., Los Angeles, Calif. Filed Apr. 30, 1951.

ROBINAIRE

For Women's Ready-to-Wear Garments and Accessories—Namely, Women's Coats and Suits; Millinery—Namely, Hats, Bonnets and Berets; Women's Dresses and Women's Sportswear Separates—Namely, Shirts, Blouses, Sweaters, Bathing Suits, Play Suits and Dresses, Sun Dresses, Shorts, and Blouses.
Claims use since Mar. 1, 1951.

Ser. No. 614,411. A. Sagner's Son, Baltimore, Md. Filed May 26, 1951.

FLANNELON

For Men's and Women's Coats and Suits; Men's Trousers, Dress and Work Shirts, Neckties, and Bathrobes.
Claims use since Nov. 30, 1950.

Ser. No. 617,377. Randolph Manufacturing Company, Incorporated, Randolph, Mass. Filed Aug. 6, 1951.

Randy
HI-TOP

No registration rights are claimed for the words "Hi-Top" apart from the mark shown.
For Shoes and Sandals for Men, Women, and Children.
Claims use since June 22, 1951.

Ser. No. 618,333. Joseph Altman, San Francisco, Calif. Filed Sept. 4, 1951.

CAL-MART

The word "Mart" is disclaimed apart from the mark as shown.

For Men's and Young Men's Suits, Topcoats, Sport Coats, Slacks, and Tuxedos.

Claims use since July 9, 1951.

Ser. No. 621,989. Texas Harvest Hat Company, Laredo, Tex. Filed Dec. 1, 1951.

THE MAVERICK

For Men's, Ladies', and Children's Hats.

Claims use since July 1, 1949.

Ser. No. 624,124. Chicopee Mills, Inc., New York, N. Y. Filed Jan. 26, 1952.

Chix

Applicant claims ownership of Registrations Nos. 387,983, 439,209, and others.

For Diapers and Diaper Liners.

Claims use since Jan. 9, 1940.

Ser. No. 626,689. Michaels, Stern & Company, Incorporated, Rochester, N. Y. Filed Mar. 19, 1952.

Cynara

For Men's Suits, Coats, and Trousers.

Claims use since Feb. 10, 1940.

Ser. No. 628,190. The Cambridge Rubber Company, Cambridge, Mass., and Taneytown, Md. Filed Apr. 17, 1952.

WINTER CARNIVAL

For Boots for Men, Women, and Children.

Claims use since Apr. 10, 1952.

Ser. No. 628,430. William B. Riley, Ltd. Inc., Beverly Hills, Calif. Filed Apr. 21, 1952.



For Men's Coats, Trousers, Suits, Sweaters, Neckties, Shorts, Swimming Trunks, Socks, Shirts, Sport Shirts, Handkerchiefs, Waistcoats, Garters, Suspenders.

Claims use since November 1951.

Ser. No. 629,125. Scout-Tex, Inc., New York, N. Y. Filed May 2, 1952.

BANJO EYES

For Polo Shirts for Children.

Claims use since Aug. 31, 1951.

Ser. No. 629,424. Carmi-Ainsbrooke Corporation, New York, N. Y. Filed May 9, 1952.

"MAD-POCKET"

No claim is made to the word "Pocket" apart from the mark as shown.

For Men's Pajamas and Under Shorts.

Claims use since Mar. 28, 1952.

Ser. No. 629,451. National Bellas Hess, Inc., North Kansas City, Mo. Filed May 9, 1952.

CAMPUS TEEN

No claim is made to the use of the word "Teen" except in connection with the word "Campus."

For Girls' Shoes, Slippers, Loafers of Leather, Fabric, and Combinations Thereof, and With Leather and Rubber Soles.

Claims use since Jan. 15, 1948.

Ser. No. 629,671. George W. Heller, Inc., New York, N. Y. Filed May 14, 1952.

VEST-OVER

The exclusive right to the use of the word "Vest" is disclaimed, apart from the mark as shown.

For Men's Wearing Apparel—Namely, a Combination Sweater-Vest.

Claims use since Mar. 1, 1952.

Ser. No. 630,338. Myrna Knitwear, Inc., New York, N. Y. Filed May 27, 1952.

Garan

For Men's and Boys' Sport Shirts, Polo Shirts, and T Shirts, for Outer Wear.

Claims use since Nov. 1, 1951.

Ser. No. 630,403. Eurasia Corporation, New York, N. Y. Filed May 28, 1952.

RAINBOW SEQUIN BERET

No claim is made to the exclusive use of the words "Sequin Beret" apart from the mark shown on the drawing.

For Sequin Berets.

Claims use since May 20, 1952.

Ser. No. 630,435. The Milliville Manufacturing Company, Philadelphia, Pa. Filed May 28, 1952.

Stardown

Applicant claims ownership of Registrations Nos. 116,671, 121,198, and 179,489.

For Diapers.

Claims use since Oct. 11, 1949.

Ser. No. 632,499. Bailey Shoe Company, San Angelo, Tex. Filed July 14, 1952.

Madye's

For Women's House Slippers — Namely, Soft Soled Scuffs.

Claims use since Aug. 1, 1943.

Ser. No. 633,785. National Transparent Plastics Company, Springfield, Mass. Filed Aug. 12, 1952.

Weatherette

For Covers Made of Transparent Plastic Material for Women's Shoes and Boots.

Claims use since on or about Feb. 15, 1948.

Ser. No. 634,508. Societe Rhodiaceta, Paris, France. Filed Aug. 13, 1952.

NYLFRANCE

Priority under Sec. 44(d). French application filed Feb. 19, 1952, Registration No. 418,049, dated Feb. 19, 1952.

For Hosiery, Including Socks, Stockings, and Anklets, Spats and Gaiters, and Underwear, All of Natural or Synthetic Fibers, for Men, Women, and Children.

Ser. No. 634,808. Samuel E. Schlein, Inc., doing business under the name Westbrooke Clothes, New York, N. Y. Filed Sept. 3, 1952.

Johnnie Ray

The trade-mark "Johnnie Ray" is a facsimile of the signature of the individual known by the same name in the entertainment world, and authorization is attached.

For Men's and Young Men's Outer Wearing Apparel—Namely, Sport Jackets, Suits, and Topcoats.

Claims use since July 30, 1952.

Ser. No. 635,863. Wollfarberei Burglen Dr. Jakob Cuno A.-G., Burglen, Thurgau, Switzerland. Filed Sept. 26, 1952.

Jakob Cuno

Applicant claims ownership of Swiss Registration No. 142,857, dated June 23, 1952.

For Knitted Articles of Clothing for Men, Women, Boys, and Girls—Namely, Socks, Stockings, Sweaters, and Bathing Suits.

Ser. No. 636,412. Dri-Babe of California, Inc., Santa Monica, Calif. Filed Oct. 9, 1952.

NITER

For Diapers.

Claims use since January 1949.

Ser. No. 636,864. Simplex Shoe Manufacturing Company, Milwaukee, Wis. Filed Oct. 18, 1952.

Flexi-Pedic

For Shoes for Children.

Claims use since Aug. 20, 1952.

637,806. Wee-Sox Hosiery Mills, Incorporated, Randleman, N. C. Filed Nov. 7, 1952.

WEE-SOX

The word "Sox" is disclaimed apart from the mark as shown on the drawing.

For Children's Hosiery.

Claims use since 1945.

Ser. No. 638,328. Texas Harvest Hat Company, Laredo, Tex. Filed Nov. 19, 1952.

Southern Select

No claim is made to the word "Select" apart from the mark shown on the drawing.

For Men's, Ladies', and Children's Hats.

Claims use since May 1952.

Ser. No. 638,417. Haggar Company, Dallas, Tex. Filed Nov. 21, 1952. (Sec. 2f as to "Haggar.")



Imperial Slacks

The word "Slacks" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 322,393 and 524,051.

For Men's Slacks.

Claims use since Jan. 1, 1952, on the mark as shown; and since on or about Feb. 1, 1934, as to "Haggar."

Ser. No. 639,018. Clinico, Inc., New York, N. Y. Filed Dec. 5, 1952.

'DRY BABY' terry tam

The applicant disclaims exclusive rights in the word "Terry" and in the word "Tam."

For After-Shampoo Terry Cloth Cap in the Shape Commonly Known as a Beret or Tam O'Shanter.

Claims use since Nov. 5, 1952.

Ser. No. 641,046. The Haas Tailoring Company, Baltimore, Md. Filed Jan. 21, 1953.

DACREEST

For Made-to-Measure Suits for Men and Women.

Claims use since Oct. 12, 1952.

Ser. No. 641,976. Sam Shainberg Dry Goods Company, Memphis, Tenn. Filed Feb. 9, 1953.

BIG WHEEL

For Articles of Wearing Apparel for Use by Men, Women, and Children: Work Pants, Work Shirts, Overalls, Dungarees and Jeans, Work Caps, Aprons, Jackets and Jumpers, Coveralls, Gloves Made of Fabric, and Work Shoes Made of Leather.

Claims use since Aug. 10, 1952.

Ser. No. 642,635. Melrose Hosiery Mills, Inc., High Point, N. C., assignee of Granite Hosiery Mills. Filed Feb. 24, 1953.

Shipmates

For Hosiery for Men, Women, and Children.

Claims use since July 17, 1949.

Ser. No. 643,436. The Rike-Kumler Company, Dayton, Ohio. Filed Mar. 10, 1953.

Moorbrook

Applicant claims ownership of Registration No. 293,029.

For Men's Suits.

Claims use since Aug. 25, 1931.

Ser. No. 644,007. Brooks Brothers, Inc., New York, N. Y. Filed Mar. 23, 1953.

Brooksweave

Applicant claims ownership of Registrations Nos. 103,889 and 279,870.

For Men's Outer Shirts.

Claims use since on or about Feb. 25, 1953.

Ser. No. 644,066. Ricky Craft Originals, Philadelphia, Pa. Filed Mar. 23, 1953.

Ricky Craft ORIGINALS

Disclaimer is made of the word "Originals" apart from the mark as shown.

For Infants' and Toddlers' Coats and Coat Sets.

Claims use since Dec. 15, 1952.

Ser. No. 644,324. I. B. Kleinert Rubber Company, New York, N. Y. Filed Mar. 27, 1953.

mask-r-aide

The word "Mask" is disclaimed apart from the mark as shown on the drawing.

For Protective Covering of Sheet Material With Eye Holes for Covering the Face After the Application of Cosmetics, as When Slipping a Garment Over the Head of the User.

Claims use since Mar. 11, 1953.

Ser. No. 644,843. Hart Schaffner & Marx, Chicago, Ill. Filed Apr. 7, 1953.

VIRALON

Applicant claims ownership of Registration No. 539,384.

For Men's and Boys' Articles of Clothing—Namely, Suits, Coats, Overcoats, Topcoats, Vests, Trousers, Knickerbockers, and Breeches; and Women's and Misses' Articles of Clothing—Namely, Suits, Coats, and Dresses.

Claims use since Feb. 27, 1953.

Ser. No. 645,226. Bohlen Gross & Moyer, Allentown, Pa. Filed Apr. 14, 1953.

Allenbrooke

For Men's Suits, Topcoats, and Sport Coats.

Claims use since Feb. 1, 1953.

Ser. No. 645,378. The Birnie Company, Inc., Atlanta, Ga. Filed Apr. 16, 1953.



For Boys' and Young Men's Jackets, Overalls, Jumpers, Trousers, Outer Shorts, Shirts, Leather Coats, Play Suits, Leggings, Breeches, Slacks, and Jodhpurs, and Novelty Western Vests.

Claims use since Mar. 11, 1953.

Ser. No. 645,454. Louis Walter & Co., Inc., Kansas City, Mo. Filed Apr. 16, 1953.

Pomara

For Ladies' Coats and Suits.

Claims use since Feb. 23, 1953.

Ser. No. 645,455. Whitley Tailleurs Inc., New York, N. Y. Filed Apr. 16, 1953.



Whitlura

For Ladies' and Misses' Coats.

Claims use since February 1953.

Ser. No. 645,530. The B. V. D. Company, Inc., New York, N. Y. Filed Apr. 20, 1953.

NYLONATED

For Men's and Boys' Knitted Underwear and Outerwear—Namely, Undershirts, Shorts, Briefs, Pajamas, Outer Shirts, T-Shirts, and Polo Shirts.

Claims use since on or about Apr. 1, 1953.

Ser. No. 645,568. Hubbard Shoe Co. Inc., Rochester, N. H. Filed Apr. 20, 1953.

Softees

Applicant claims ownership of Registrations Nos. 349,627 and 569,788.

For Shoes of Leather, Fabric, or Combinations Thereof for Men, Women, and Children; and Insoles and Sock Linings for Shoes.

Claims use since Aug. 30, 1952, on the mark as shown; and since Jan. 1, 1937, as to "Softees" in a different form.

Ser. No. 645,572. International Shoe Company, St. Louis, Mo. Filed Apr. 20, 1953.



Exclusive rights to the word "Shoes" is not claimed, apart from the rest of the mark.

For Men's, Women's, and Children's Shoes of Leather, Fabric, and/or Combinations Thereof.

Claims use since Apr. 15, 1952.

Ser. No. 645,654. Little Ones Footwear Inc., New York, N. Y. Filed Apr. 21, 1953.



The word "Slippers" shown on the drawing is disclaimed when apart from the mark.

For Children's Slippers.

Claims use since Feb. 2, 1953.

Ser. No. 645,656. The Manhattan Shirt Company, New York, N. Y. Filed Apr. 21, 1953.

GOLDEN NEEDLE

Applicant claims ownership of Registration No. 385,002.

For Men's Outer Dress and Sport Shirts, Pajamas, Handkerchiefs, Under Shirts and Under Shorts, Sport Shorts, Swim Trunks, and Neckties.

Claims use since July 24, 1952.

Ser. No. 645,666. Roland E. Plummer, Huntington, N. Y. Filed Apr. 21, 1953.



For Men's, Women's, and Children's Shoes and Shoe Soles.

Claims use since December 1952.

Ser. No. 645,674. Saks & Company, New York, N. Y. Filed Apr. 21, 1953. (Sec. 2f.)

Fenton

Applicant claims ownership of Registration No. 207,997.
For Women's, Misses', and Children's Shoes and Slippers of Leather, Rubber, Fabric, and Combinations Thereof.
Claims use since Sept. 1, 1924.

Ser. No. 645,710. The House of Swansdown, Inc., New York, N. Y. Filed Apr. 22, 1953.

Swansheen

For Ladies' and Misses' Outerwear—Namely, Coats, Suits, Jackets, and Skirts.
Claims use since Feb. 4, 1952.

Ser. No. 645,877. Eagle Clothes, Inc., Brooklyn, N. Y. Filed Apr. 24, 1953.

REXOR

For Men's Clothing—Namely, Coats, Topcoats, and Suits.
Claims use since Apr. 14, 1953.

Ser. No. 645,883. Eagle Clothes, Inc., Brooklyn, N. Y. Filed Apr. 24, 1953.

Valcrest

For Men's Clothing—Namely, Coats, Topcoats, and Suits.
Claims use since Apr. 14, 1953.

Ser. No. 646,048. Blue Bell, Inc., Greensboro, N. C. Filed Apr. 28, 1953.

CORRAL

Applicant claims ownership of Registration No. 555,446.
For Men's and Boys' Blanket Lined Coats, Cossack Coats, and Western Shirts; Kiddies' Bib Overalls and Dungarees; and Ladies' and Girls' Western Dungarees.
Claims use since Dec. 8, 1950.

Ser. No. 646,324. Arthur Siegman, Inc., New York, N. Y. Filed May 1, 1953.

Corsini

For Men's Neckties and Scarves.
Claims use since June 30, 1950.

Ser. No. 646,399. Joyce, Inc., Pasadena, Calif. Filed May 4, 1953.

LUXURY LINERS

For Women's Shoes.
Claims use since Oct. 15, 1952.

Ser. No. 646,436. Earl R. Shaw, doing business as Tiedright Tie Company, Asheboro, N. C. Filed May 4, 1953. (Sec. 2f.)

Tiedright

Applicant claims ownership of Registration No. 375,610.
For Men's and Boys' Ties.
Claims use since on or about Sept. 15, 1935.

Ser. No. 646,447. Johnson, Stephens and Shinkle Shoe Company, St. Louis, Mo. Filed May 4, 1953.

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Applicant claims ownership of Registrations Nos. 327,706, 328,672, and others.
For Shoes of Leather, or a Combination of Leather, Rubber, or Fabric, for Women and Misses.
Claims use since on or about Apr. 20, 1953.

Ser. No. 646,543. H. Freeman & Son, Inc., Philadelphia, Pa. Filed May 6, 1953.

STRATOWEIGH

For Men's Suits, Coats, and Trousers.
Claims use since Apr. 30, 1952.

Ser. No. 646,605. Deb Shoe Company, Inc., St. Louis, Mo. Filed May 7, 1953.

DANSEUR

For Women's Shoes.
Claims use since Apr. 9, 1953.

Ser. No. 646,606. Deb Shoe Company, Inc., St. Louis, Mo. Filed May 7, 1953.

GISELLE

For Women's Shoes.
Claims use since Apr. 9, 1953.

Ser. No. 646,645. The Atlas Underwear Company, Piqua, Ohio. Filed May 8, 1953.

Soft-Snap

For Infants' Training Pants.
Claims use since Apr. 15, 1953.

Ser. No. 646,874. Morris Kahn, doing business as Camay Hosiery Mills, Newark, N. J. Filed May 12, 1953.

Pomona

For Men's, Ladies', and Children's Socks and Stockings.
Claims use since September 1950.

Ser. No. 647,638. Lord Jeff Knitting Company, Incorporated, Brooklyn, N. Y. Filed May 25, 1953.

VIRILON

For Men's Knitted Sweaters and Basque Shirts.
Claims use since Jan. 2, 1953.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 617,736. Thomas Taylor & Sons, Inc., Hudson, Mass. Filed Aug. 15, 1951. (Sec. 2f.)

SHUGOR

Applicant claims ownership of Registrations Nos. 371,783, 358,999, and 518,898.
For Woven and Braided Elastic Fabric Strips, Tapes, Trimmings, Edgings, Lacings, and Insertions, Suitable for Use by the Manufacturers of Wearing Apparel, Footwear, Etc.
Claims use since May 1935.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 620,635. The S. S. White Dental Manufacturing Company, Philadelphia, Pa. Filed Oct. 29, 1951. (Sec. 2f.)

EXACT

Applicant claims ownership of Registration No. 291,516.
For Impression Compound.
Claims use since on or about Dec. 15, 1921.

Ser. No. 627,148. Puritan Compressed Gas Corporation, Kansas City, Mo. Filed Mar. 27, 1952.

OXIJET

The lining shown on the drawing is for shading only.
Applicant claims ownership of Registration No. 364,567.
For Oxygen Humidifiers for Use in Humidified Oxygen Therapy.
Claims use since Mar. 18, 1952.

Ser. No. 639,335. James S. Miller, Trenton, N. J. Filed Dec. 11, 1952.

OCCLUSOSCOPE

For Occlusal Plane Recorders, Consisting of the Combination of a Resilient Plate and Mechanical Means, in Conjunction With an Articulator Having an Artificial Condyle, for Deforming the Plate To Correspond With the Planes of Occlusion, Lateral Thrust and Anterior Component of a Person for Whom Artificial Dentures Are To Be Made, and Thereby Providing a Surface on Said Plate Upon Which To Set the Teeth for a Single Artificial Denture Plate.
Claims use since Nov. 25, 1952.

Ser. No. 639,467. Electro Surgical Instrument Co., Rochester, N. Y. Filed Dec. 15, 1952.

E.S.I.CO.

Without waiving any common law rights, applicant disclaims the word "Co." apart from the mark shown.
For Physicians' and Surgeons' Instruments—Namely, Transilluminators and Retractors, Bronchoscopes and Bronchoscopic Accessories, Oesophagoscopes and Oesophagoscopic Accessories, Gastroscopes and Gastroscopic Accessories, Urethroscopes and Urethroscopic Accessories, Applicators, Anoscopes, Nasopharyngoscopes and Nasopharyngoscopic Accessories, Sigmoidoscopes, Laryngoscopes, Antroscopes, Antrum Illuminators, Aspirators, and Irrigators, Auriscopes, Auriscope and Ophthalmoscope Outfits, Procto-Sigmoidoscopes, Nasal Specula, Bladder Cauteries, Rectal Specula, Cystoscopes, Resectoscopes, Dilating Bulbs, Brain Retractors, Fulgurating Electrodes, Urethral Follicular Canulas, Catheters, Instrument Cases, Cauteries, Cautery Cables, Cautery Cords, Cautery Electrodes, Rectal Cauteries, Cautery Handles, Cautery Knives, Diagnostic Illuminators, Cocaine Tablet Depositors, Diagnostic Outfits, Specula, Median Bar Excisors, Electro Eye Magnets, Eye Spuds, Fonofaryngoskops, Forceps, Head Lamps, Teeth Protectors, Telemagnifiers, Endoscopes, Mouth Gags, Nasal Snares, Lamps for the Above Named Instruments, Evacuators, Tablet Depositors, Light Attachments for Unlighted Instruments, Tracheoscopes, Rectal Instruments, Electrolysis Needles, Glottoskops, Specialists' Diagnostic and Surgical Outfits, Skeneoscopes, and Tongue Depressors.
Claims use since about 1899.

Ser. No. 639,524. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern's

For Sanitary Goods—Namely, Sanitary Pants, Perfume Atomizers, Sanitary Belts, Sanitary Napkins, and Manicure Sets Including Tweezers, Scissors, Nail Files, Cuticle Removers, and Orange Sticks.
Claims use since 1932.

Ser. No. 641,254. Vita-Zahnfabrik H. Rauter O. H. G., Essen, Germany. Filed Nov. 24, 1952.

VITANORM

Priority under Sec. 44(d). German application filed May 24, 1952, Registration No. 622,395, dated June 24, 1952. Applicant claims ownership of United States Registration No. 259,601.
For Artificial Teeth.

Ser. No. 648,162. Elysee Cosmetic Manufacturing Co., San Francisco, Calif. Filed June 3, 1953.

Elysée

For Skin Therapy Machines.
Claims use since June 1952.

Ser. No. 648,237. The Dentists' Supply Company of New York, York, Pa. Filed June 4, 1953.

RATIONAL

For Artificial Teeth.
Claims use since on or about Apr. 6, 1953.

Ser. No. 648,240. Faichney Instrument Corporation, Watertown, N. Y. Filed June 4, 1953.

APEX

For Clinical Thermometer.
Claims use since June 21, 1928.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 620,587. Boldemann Chocolate Co., Inc., San Francisco, Calif. Filed Oct. 29, 1951.

POKIES

For Candy.
Claims use since May 3, 1951.

Ser. No. 632,276. John R. Sorensen & Company Limited, Manchester, England. Filed July 8, 1952.

SOREENMELLOW

The word "Mellow" is disclaimed apart from the mark. Applicant claims ownership of British Registration No. 670,047, dated June 5, 1948.
For Emulsions of Fatty Acid Esters in Water Being for Use as a Substitute for Cream.

Ser. No. 633,309. John E. Howe, Yuma, Ariz. Filed July 31, 1952.

LEEMAC

For Fresh Melons.
Claims use since June 1, 1951.

Ser. No. 640,162. Kuhner Packing Company, Muncie, Ind. Filed Dec. 30, 1952.

Marhoefer Hostess

Applicant disclaims the word "Marhoefer" apart from the mark as shown.
For Cured Smoked Pork Sausage.
Claims use since Feb. 3, 1952.

Ser. No. 640,255. Berverdor, Inc., Tracy, Calif. Filed Jan. 2, 1953.

BVD

For Fresh Vegetables.
Claims use since March 1946.

Ser. No. 643,116. Robertson & Woodcock Limited, London, England. Filed Mar. 4, 1953.

FRUBES

For Candy.
Claims use since June 1, 1951.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 624,020. Bowl-O-Beauty Co., Maywood, Ill. Filed Jan. 24, 1952.

BOWL-O-BEAUTY

No registration rights are claimed for the word "Bowl" apart from the mark shown in the drawing.
For Floral Display Consisting of Natural Flowers Placed in an Aqueous Solution in a Permanently Sealed Glass Bowl.
Claims use since Feb. 2, 1951.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 637,054. Les Parfums de Dana, Inc., New York, N. Y. Filed Oct. 23, 1952.

VOODOO

Applicant claims ownership of Registration No. 363,746.
For Perfume, Cologne, Toilet Water, Lipstick, Rouge, Face Powder, Eyelash and Eyebrow Pencils, Mascara, Pads Impregnated With Suntan and Cleansing Lotion, Creams for the Hands and Face, Skin Lotion, Hair Tonic, Brilliantine, and Nail Polish.
Claims use since Sept. 1, 1932.

Ser. No. 637,586. Jay G. Hobson, doing business as Rigident Products Company, Los Angeles, Calif. Filed Nov. 4, 1952.

RIGIDENT

For Powder Retainer for False Teeth.
Claims use since July 10, 1952.

Ser. No. 639,329. Holiday, Inc., New York, N. Y. Filed Dec. 11, 1952.

Rhapsodie

For Perfume.
Claims use since Nov. 12, 1952.

Ser. No. 640,321. Beauty Counselors, Inc., Grosse Point, Mich. Filed Jan. 5, 1953.

Bright Lights

For Hair Rinse.
Claims use since Feb. 1, 1950.

Ser. No. 640,464. Lentheric, Incorporated, New York, N. Y. Filed Jan. 7, 1953.

TOUCH CURL

Apart from the mark shown, the word "Curl" is disclaimed.
For Hair-Dressing and Setting Lotion.
Claims use since Dec. 11, 1952.

Ser. No. 642,823. Alexander Laughlin, Portland, Maine. Filed Feb. 26, 1953.

P
PELLEX

The drawing is lined for the colors black and blue and such colors are claimed as essential features of the mark.
For Hair Depilatory.
Claims use since Nov. 2, 1951.

Ser. No. 646,165. Primrose House, Inc., Indianapolis, Ind. Filed Apr. 29, 1953.

CHARMALURE

For Eye Shadow.
Claims use since Apr. 13, 1953.

Ser. No. 646,225. Lentheric, Incorporated, New York, N. Y. Filed Apr. 30, 1953.

STEAK 'N ALE

For Cologne and Shave Lotion.
Claims use since Apr. 14, 1953.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 614,800. Signal Oil Company, Los Angeles, Calif., assignor to Standard Oil Company of California, a corporation of Delaware, doing business as Signal Oil Company, Los Angeles, Calif. Filed May 28, 1951.

SIGNAL PRODUCTS

Applicant disclaims the word "Products" apart from the mark as shown.
For Flushing Oil Useful for Removing Abrasives and Other By-Products of Combustion, Fine Metal Particles Worn From Bearings and Gear Teeth, Road Dust, Moisture, Lacquer and Sludge Deposits From Gears, Bearings, Crank Cases and Gear Cases of Automotive Vehicles and for Cleaning Solvents Useful for General, Domestic, and Industrial Cleaning of Fabrics, Metals, Cements, and Other Materials.
Claims use since March 1933, in its present form; and since March 1931, as to "Signal."

Ser. No. 624,550. Klensade Products, Incorporated, Beloit, Wis. Filed Feb. 5, 1952.

PLASTI-KLENZ

The word "Klenz" is hereby disclaimed apart from the mark as shown.

For Detergents for Use in Mechanical Dish Washing.

Claims use since Apr. 1, 1951.

Ser. No. 625,462. Cooperstown Chemical, Inc., Cooperstown, N. Y. Filed Feb. 25, 1952.

OVA SAN

The word "Ova" is disclaimed apart from the mark.

For Cleansing, Sanitizing, and Deodorizing Material for Eggs.

Claims use since Jan. 10, 1952.

Ser. No. 627,955. Mid-Continent Chemical Co. Inc., South Bend, Ind. Filed Apr. 11, 1952.

PURP

For Detergent for General Household and Laundry Use.

Claims use since June 1, 1950.

Ser. No. 629,094. The Endust Corporation, Washington, D. C. Filed May 2, 1952.

ENDUST

For Dust Absorbing Composition for Application to Dust Mops and Dust Cloths as an Aid in Cleaning.

Claims use since Apr. 25, 1952.

Ser. No. 631,621. International Sisal Company, Minneapolis, Minn. Filed June 23, 1952. (Sec. 2f.)

KLEENSWEEP

For Sweeping Compound.

Claims use since on or about Jan. 1, 1922.

Ser. No. 631,645. Beach Soap Company, Lawrence, Mass. Filed June 24, 1952.

Chlorette

For Laundry Soap Containing Chlorophyl.

Claims use since May 16, 1952.

Ser. No. 634,588. The Gillette Company, Boston, Mass. Filed Aug. 28, 1952.

Three Wishes

For Shampoo.

Claims use since Aug. 4, 1952.

Ser. No. 641,128. The C. B. Dolge Company, Westport, Conn. Filed Jan. 22, 1953.

CINDET

For Synthetic Detergent—Namely, Industrial and Household Hard Surface Cleaner for Floors, Walls, Painted Surfaces, and Metal Parts.

Claims use since Oct. 1, 1952.

Ser. No. 641,749. Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Filed Feb. 4, 1953.

PDQ

Applicant claims ownership of Registrations Nos. 302,432 and 434,969.

For Low-Octane Fuel Composition Useful for Removing Carbon and Other Combustion Chamber Deposits.

Claims use since Aug. 20, 1951.

Ser. No. 642,222. Guardian Chemical Corporation, Long Island City, N. Y. Filed Feb. 13, 1953.

CANCIL

For Ink and Dye Eradicator in Stick Form.

Claims use since Jan. 6, 1953.

Ser. No. 642,266. Chicago Sanitary Products Co., doing business as V-G Manufacturing Co., Chicago, Ill. Filed Feb. 16, 1953.

V-G

The drawing is lined for red.

For Skin Cleanser in the Nature of a Detergent or Soap.

Claims use since Sept. 20, 1951.

Ser. No. 645,217. Service Products, Incorporated, Greenville, Pa. Filed Apr. 14, 1953.

SANI-URN

The word "Urn" is disclaimed apart from the mark as shown.

For Chemical Preparation for Use in Cleaning Coffee Urns.

Claims use since Feb. 12, 1929.

Ser. No. 645,269. Sterling Drug Inc., New York, N. Y. Filed Apr. 14, 1953.

LOROTHIDOL

For Antiseptic Agent for Use in Detergent Preparations.

Claims use since Mar. 24, 1953.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 586,872. National Fisheries Institute, Inc., Wilmington, Del., and Washington, D. C. Filed Oct. 26, 1949.

NATIONAL FISHERIES INSTITUTE INC.

The lining in the drawing constitutes lining forming part of the mark and does not represent color. The words "National Fisheries Institute Inc." are disclaimed apart from the mark.

For Trade Association Services Rendered to Its Members—Namely, Reporting on Legislation Affecting the Industry, Representing the Membership Before Federal and State Government Agencies, Development of Standards for the Industry, Education of the Members on Efficient Business Practices, and Public Relations.

Claims use since Sept. 28, 1945.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 620,297. Dolen O. Talley, doing business as Bel-Toe Foundation Company, Houston, Tex. Filed Oct. 22, 1951.

Bel-Toe

The use of the word "Toe" is disclaimed apart from its association with the mark as shown.

For Reaming of Foundation Holes for Foundation Footings.

Claims use since Mar. 10, 1950.

Ser. No. 632,936. Hill-Smith Termite Control Co., Memphis, Tenn. Filed July 23, 1952.

ORGANOTOX

For Chemical Treatment of Buildings and Wooden Structures With Toxic Chemicals for Preserving and Protecting Same Against Termites, Beetles, Decomposition, and General Deterioration.

Claims use since Jan. 1, 1950.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 586,872. National Fisheries Institute, Inc., Wilmington, Del., and Washington, D. C. Filed Oct. 26, 1949. (Classified in Class 100.)

The lining in the drawing constitutes lining forming part of the mark and does not represent color. The words "National Fisheries Institute Inc." are disclaimed apart from the mark.

See this serial number in Class 100 for goods and mark.

Claims use since Sept. 28, 1945.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1946, PRINCIPAL REGISTER

581,428. Automobiles and Structural Parts Thereof. Willys-Overland Motors, Inc., Toledo, Ohio.
Original filed, act of 1905, Nov. 17, 1944; amended to application under act of 1946, Principal Register, June 23, 1949, Serial No. 476,589. Published July 28, 1953. Class 19.

581,429. Writing Paper and Envelopes. George B. Hurd, Inc., New York, N. Y.
Filed Oct. 11, 1947, Serial No. 537,592. Published June 16, 1953. Class 37.

581,430. Mining and Mill Machinery and Equipment, Etc. Denver Equipment Company, Denver, Colo.
Filed Oct. 17, 1947, Serial No. 538,105. Published July 28, 1953. Class 23.

581,431. Cheese. L. D. Schreiber & Co., Inc., Chicago, Ill., and Green Bay, Wis.
Filed Feb. 13, 1948, Serial No. 549,670. Published Dec. 26, 1950. Class 46.

581,432. Labeling Machines. New Jersey Machine Corporation, Hoboken, N. J.
Filed Feb. 17, 1948, Serial No. 549,941. Published June 30, 1953. Class 23.

581,433. Ground Meat of Beef and Pork, Baked Ham, Etc. Steak n Shake, Inc., Bloomington, Ill.
Filed Oct. 15, 1948, Serial No. 567,054. Published July 14, 1953. Class 46.

581,434. Locking Devices—Namely, Key Operated Adjustable Grip-Type Lock. Gabriel D. Haver, Chula Vista, Calif.
Filed Dec. 4, 1948, Serial No. 569,971. Published July 28, 1953. Class 25.

581,435. Complete Pole Line Equipment—Namely, Insulators and Parts Thereof; Circuit Protective Equipment and Parts Thereof—Namely, Lightning Arrestors, Fuses, and Cutouts; and Luminaires and Parts Thereof. Joslyn Mfg. and Supply Co., Chicago, Ill.
Filed Jan. 25, 1949, Serial No. 572,744. Published July 14, 1953. Class 21.

581,436. Shoulder Strap Cushion Attachment of Foam Rubber To Prevent Skin Irritation. Mills Manufacturing Corporation, New York, N. Y.
Filed Mar. 30, 1949, Serial No. 576,345. Published July 14, 1953. Class 40.

581,437. Spiral Combs. Lentheric Incorporated, New York, N. Y.
Filed May 17, 1949, Serial No. 578,982. Published July 14, 1953. Class 40.

581,438. Undergarments—Namely, Slips. Pickwick Lingerie, New York, N. Y.
Original filed, act of 1946, Supplemental Register, May 24, 1949; amended to application, Principal Register, Aug. 15, 1950, Serial No. 579,449. Published Oct. 10, 1950. Class 39.

581,439. Tissue Dispensing Boxes; Hampers; Baskets, Etc. Wolff Appliance Corp., Long Island City, N. Y.
Filed May 24, 1949, Serial No. 579,463. Published July 28, 1953. Class 2.

581,440. Mechanically Grooved Phonograph Records. Plastic Art Toy Corporation of America, East Rutherford, N. J.
Filed June 17, 1949, Serial No. 580,673. Published Aug. 22, 1950. Class 36.

581,441. Meats and Meat Products, Etc. S. & S. Heyman, Ltd., New York, N. Y.
Filed July 22, 1949, Serial No. 582,353. Published July 14, 1953. Class 46.

581,442. Men's and Boys' Shoes of Leather, Leather and Rubber, Leather and Fabric, and Combinations of the Same. Wall-Streeter Shoe Co., North Adams, Mass.
Filed Aug. 26, 1949, Serial No. 584,094. Published Feb. 10, 1953. Class 39.

581,443. Rice. C. E. Grosjean Rice Milling Co., San Francisco, Calif.
Filed Sept. 24, 1949, Serial No. 585,278. Published July 14, 1953. Class 46.

581,444. Molasses Stock Feed Containing 16% Protein. Nixon & Company (Nebraska), Omaha, Nebr.
Filed Aug. 29, 1949, Serial No. 587,578. Published July 14, 1953. Class 46.

581,445. Hand Tools, Particularly Heavy Hand Tools Such as Sledges, Hammers, Mauls, Picks, Mattocks, Hoes, Bars, Wedges, Blacksmith Tools, Tongs, Railroad Track Tools, Adzes, Punches, Wrenches, and the Like and Parts Therefor. Warren Tool Corporation, Howland, Ohio.
Filed Nov. 18, 1949, Serial No. 588,069. Published May 12, 1953. Class 23.

581,446. Stranded Cotton. The Clark Thread Company, Wilmington, Del., and Clarkdale, Ga., now by change of name and merger Coats & Clark Inc.,
Filed Jan. 10, 1950, Serial No. 590,582. Published July 14, 1953. Class 43.

581,447. Ladies', Misses', and Children's Coats, Suits. Baitch & Castaldi, Inc., New York, N. Y.
Filed Jan. 23, 1950, Serial No. 591,275. Published July 21, 1953. Class 39.

581,448. Sodium Carboxy Methyl Cellulose Used as a Thickening Agent for Foodstuffs. Dominion Tar & Chemical Company, Limited, Montreal, Quebec, Canada, assignee of Standard Chemical Company, Limited.
Filed Feb. 23, 1950, Serial No. 592,949. Published July 14, 1953. Class 46.

581,449. Hair Curling Comb Having Hollow Teeth for Directing Air to the Hair. Carol Wood, San Diego, Calif.
Filed Apr. 3, 1950, Serial No. 595,182. Published July 14, 1953. Class 40.

581,450. Baby's Terry Cloth Play Garment Set. Napper Company, Incorporated, Winnetka, Ill., now by change of name, Nappies, Incorporated.
Filed May 9, 1950, Serial No. 597,157. Published Mar. 25, 1952. Class 39.

581,451. Wall Calendars. Walter F. Rothe, doing business as The Universal Calendar Company, Washington, D. C.
Filed May 9, 1950, Serial No. 597,168. Published July 14, 1953. Class 38.

581,452. Men's and Boys' Shoes of Leather, Calfskin, Kid, Etc. Namm's, Inc., Brooklyn, N. Y., assignor to Namm-Loeser's, Inc., Brooklyn, N. Y., a corporation of New York.
Filed June 30, 1950, Serial No. 600,069. Published Apr. 1, 1952. Class 39.

581,453. Household Brooms. Richmond Broom Company, Richmond Va.
Filed July 11, 1950, Serial No. 600,509. Published July 14, 1953. Class 29.

581,454. Sudsing Packaged Detergent in Powdered Form for Washing Dishes, Laundering Clothes, and Other General Cleaning Purposes. Armour and Company, Chicago, Ill.
Filed July 17, 1950, Serial No. 600,755. Published Apr. 7, 1953. Class 52.

581,455. Shoe Soles. United States Rubber Company, New York, N. Y.
Filed Aug. 15, 1950, Serial No. 602,234. Published July 14, 1953. Class 39.

581,456. Antianemic Preparation. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a Corporation of Virginia.
Filed Aug. 16, 1950, Serial No. 602,293. Published Sept. 4, 1951. Class 18.

581,457. Combination Check, Deposit, and Expenditure Account Book. Columbian Art Works, Inc., Milwaukee, Wis.
Filed Sept. 1, 1950, Serial No. 603,045. Published June 30, 1953. Class 37.

581,458. Natural and Synthetic Food Flavors—Namely, Extracts, Essential Oils, Concentrates, and Aromatic Chemicals. Firmenich & Co., New York, N. Y., assignor to Firmenich, Incorporated, New York, N. Y., a corporation of Delaware.
Filed Sept. 1, 1950, Serial No. 603,052. Published July 28, 1953. Class 46.

581,459. Artist's Brushes. Harry Reso, New York, N. Y.
Filed Oct. 31, 1950, Serial No. 605,680. Published July 14, 1953. Class 29.

581,460. Ice Cream and Frozen Confections—Namely, Spumoni; Biscuit Tortoni; Waterice and Milk Sherbets; and Ice Cream Cake. The Sedutto Company, New York and Staten Island, N. Y., assignor to 314 New Dorp Lane Corp., New York, N. Y., a corporation of New York.
Filed Oct. 31, 1950, Serial No. 605,688. Published July 21, 1953. Class 46.

581,461. Cookies. Zion Industries, Inc., doing business as The Zion Countryside Bakers, Zion, Ill.
Filed Nov. 29, 1950, Serial No. 607,106. Published June 16, 1953. Class 46.

581,462. Conduit Having a Valve or Orifice Plate Therein Interposed Between the Crankcase and the Intake Manifold of an Internal Combustion Engine To Control the Pressure in the Crankcase. John Babcock Howard, trustee of Boston Vacuum Trust, Marblehead, Mass.
Filed Dec. 8, 1950, Serial No. 607,429. Published May 12, 1953. Class 23.

581,463. Ophthalmic Solutions. Alcon Laboratories, Inc., Fort Worth, Tex.
Filed Dec. 9, 1950, Serial No. 607,468. Published July 28, 1953. Class 18.

581,464. Durum Wheat Flour. Duluth Universal Milling Company, Duluth, Minn.
Filed Dec. 14, 1950, Serial No. 607,665. Published July 14, 1953. Class 46.

581,465. Sedative, Anodyne, and Palatable Expectorant for Use in Relief of Coughs and Colds. Joseph Blau, doing business as Tone Professional Products, New York, N. Y., assignor to Mathieson Chemical Corporation, New York, N. Y., a corporation of Virginia.
Filed Dec. 19, 1950, Serial No. 607,841. Published Sept. 11, 1951. Class 18.

581,466. Hormonal Preparations for Use Where Male Sex Hormone Is Indicated. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia.
Filed Dec. 30, 1950, Serial No. 608,259. Published July 28, 1953. Class 18.

581,467. Linoleum Paste, and Waterproof Rubber Tile Cement. Standard Floor Covering Co., Inc., Chicago, Ill.
Filed Jan. 18, 1951, Serial No. 608,959. Published Mar. 3, 1953. Class 5.

581,468. Periodical Publication (at Present a Periodically-Issued Magazine of the Alumni of the United States Naval Academy Appearing Monthly or Otherwise as Designated by the Board of Trustees of Said Association). United States Naval Academy Alumni Association Inc., Annapolis, Md.
Filed Sept. 29, 1950, Serial No. 609,807. Published July 14, 1953. Class 38.

581,469. Speed Control Mechanism for Record Players Comprising Means for Controlling the Speed of an Induction Motor Used To Revolve Said Records. Califone Corporation, Hollywood, Calif.
Filed Mar. 26, 1951, Serial No. 611,756. Published July 14, 1953. Class 21.

581,470. Dressed Poultry. James H. Knowles, Centralia, Wash.
Filed Apr. 2, 1951, Serial No. 612,127. Published July 14, 1953. Class 46.

581,471. Pleasure Boats. Luis R. Fuertes, doing business under the name of Sharktoon Boats Manufacturing Co., San Juan, P. R.
Filed Apr. 12, 1951, Serial No. 612,535. Published July 28, 1953. Class 19.

581,472. Boots and Shoes of Leather, Fabric, or Combinations Thereof for Men and Boys. French, Shriner & Urner Manufacturing Co., Boston, Mass.
Filed Apr. 24, 1951, Serial No. 613,061. Published July 21, 1953. Class 39.

581,473. Trailer Coach All Weather Roof Ventilators With or Without Motor and/or Fan. Fern A. Strawsine, doing business as Strawsine Manufacturing Company, Corunna, Mich.
Filed Apr. 26, 1951, Serial No. 613,200. Published July 28, 1953. Class 19.

581,474. Paint Applying Devices—Namely, Brushes and Roller Applicators. The Wooster Brush Company, Wooster, Ohio.
Filed May 16, 1951, Serial No. 613,951. Published July 7, 1953. Class 29.

581,475. Capacitors. Astron Corporation, East Newark, N. J.
Filed June 11, 1951, Serial No. 615,006. Published July 14, 1953. Class 21.

581,476. Soups and Soup Bases and Soup Concentrates, Etc. Fearn Foods Inc., Franklin Park, Ill.
Filed June 28, 1951, Serial No. 615,824. Published July 14, 1953. Class 46.

581,477. Ice Cream. Karl Droge - - Ice Cream, Brooklyn, N. Y.
Filed July 5, 1951, Serial No. 616,086. Published May 26, 1953. Class 46.

581,478. Roast Beef and Barbeque Sauce, Roast Beef and Gravy, and Roast Pork and Gravy. Land O'Frost Products, Chicago, Ill.
Filed July 7, 1951, Serial No. 616,209. Published July 21, 1953. Class 46.

581,479. Plastic Mitt. Dean Vail, Rowayton, Conn., assignor to Dean Vail Corp., Paterson, N. J., a corporation of New Jersey.
Filed July 24, 1951, Serial No. 616,880. Published July 21, 1953. Class 39.

581,480. CONSOLIDATED CERTIFICATE. Whirlpool Corporation, St. Joseph, Mich.
Dish Washing Machines. Filed Mar. 1, 1952, Serial No. 625,838. Published Feb. 3, 1953. Class 23.
Domestic Laundry Appliances—Namely, Washing Machines, Clothes Drier Machines, and Ironing Machines. Filed Aug. 9, 1951, Serial No. 617,520. Published Jan. 20, 1953. Class 24.

581,481. Salad Dressings and Remoulade Sauce. Charles M. Maginnis, doing business as Charles of New Orleans, Fort Worth, Tex.
Filed Aug. 13, 1951, Serial No. 617,620. Published July 14, 1953. Class 46.

581,482. Expanded Volcanic Glass in a Semi-Powder State. Perlite of Houston, Inc., Houston, Tex.
Filed Aug. 27, 1951, Serial No. 618,124. Published July 14, 1953. Class 1.

581,483. Chemical-Pharmaceutical Products — Namely, Antibiotics. Lepetit S. p. A., Milan, Italy.
Filed Sept. 10, 1951, Serial No. 618,586. Published July 7, 1953. Class 18.

581,484. Coffee, Tea, Ground Pepper, Ground Cinnamon. Carolina Coffee Company, Charleston, S. C.
Filed Sept. 11, 1951, Serial No. 618,623. Published July 21, 1953. Class 46.

581,485. Frozen Berries and Frozen Vegetables. Marion Creamery & Poultry Company, Portland, Oreg.
Filed Sept. 17, 1951, Serial No. 618,894. Published July 14, 1953. Class 46.

581,486. Chenille Scuffies for Men, Women, and Children. James Wellborn Bray, Sr., doing business as J. W. Bray Company, Dalton, Ga.
Filed Sept. 18, 1951, Serial No. 618,912. Published July 21, 1953. Class 39.

581,487. Sanitary Belts. Mills Manufacturing Corporation, New York, N. Y.
Filed Sept. 27, 1951, Serial No. 619,306. Published May 13, 1952. Class 44.

581,488. Pasteurized, Homogenized, Skim Milk With Vitamins A and D Added. The Isaly Dairy Company, Youngstown, Ohio.
Filed Oct. 17, 1951, Serial No. 620,103. Published July 14, 1953. Class 46.

581,489. Assembled Electronic Amplifier Units for Use With Measuring and Testing Instruments, Electronic Apparatus for Measuring Time Periods, Etc. Southern Instruments Limited, Fernhill, Hawley, Camberley, Surrey, England.
Filed Oct. 19, 1951, Serial No. 620,236. Published July 14, 1953. Class 26.

581,490. Glass Tracing Cloth and Glass Reproduction Cloth. Keuffel & Esser Company, Hoboken, N. J.
Filed Oct. 23, 1951, Serial No. 620,345. Published July 14, 1953. Class 37.

581,491. Food Beverage, Containing Cereals, Legumes, Honey, and Herbs and Their Derivatives. George W. S. Pulford, doing business under the firm name Chanticleer Food Products, Windsor, Ontario, Canada.
Filed Oct. 23, 1951, Serial No. 620,388. Published July 21, 1953. Class 46.

581,492. Fresh Vegetables. Cutler Growers Exchange, Cutler, Calif.
Filed Oct. 26, 1951, Serial No. 620,497. Published July 21, 1953. Class 46.

581,493. Automobile Heaters. Kingston Products Corporation, Kokomo, Ind.
Filed Oct. 26, 1951, Serial No. 620,508. Published July 28, 1953. Class 19.

581,494. Livestock and Poultry Feeds. Charles Halverson, trading and doing business as Big Gain Products, West Union, Iowa, Mankato, Minn., and De Kalb, Ill.
Filed Nov. 9, 1951, Serial No. 621,061. Published July 21, 1953. Class 46.

581,495. Processed Fresh Frozen Baby Foods—Namely, Chopped Broccoli and Cooked Squash. Philip F. Hartman, doing business as Sno-Frozen Products Co., Redwood City, Calif.
Filed Nov. 15, 1951, Serial No. 621,265. Published May 26, 1953. Class 46.

581,496. Thermally-Responsive Safety Switch for Cutting Off Boiler Fuel Supply. Majestic Fuel Oil Company, Inc., Brooklyn, N. Y.
Filed Nov. 17, 1951, Serial No. 621,361. Published July 21, 1953. Class 26.

581,497. Aliphatic Alcohol Esters of Ricinoleic Acid, Which Are Used as Upper Cylinder Lubricants. The Baker Castor Oil Company, Jersey City, N. J., and New York, N. Y.
Filed Nov. 20, 1951, Serial No. 621,446. Published July 7, 1953. Class 15.

581,498. Catalogs, Drawings, and Printed Charts. Birmingham Paper Company, Birmingham, Ala.
Filed Dec. 3, 1951, Serial No. 622,008. Published July 14, 1953. Class 38.

581,499. Chalk Crayon. Binney & Smith Company, New York, N. Y.
Filed Dec. 21, 1951, Serial No. 622,734. Published June 30, 1953. Class 37.

581,500. Balloons Adapted To Suspend Meteorological and Other Scientific and Signalling Instruments. General Mills, Inc., Wilmington, Del., and Minneapolis, Minn.
Filed Dec. 21, 1951, Serial No. 622,742. Published July 21, 1953. Class 26.

581,501. Men's and Women's Shoes of Leather, Fabric, and Rubber, and Combinations of the Same. Kirk's, Inc., Oklahoma City, Okla.
Filed Dec. 21, 1951, Serial No. 622,748. Published July 21, 1953. Class 39.

581,502. Wheat Flour. Flour Mills of America, Inc., doing business under the style name of Kansas Flour Mills Company, Kansas City, Mo.
Filed Dec. 24, 1951, Serial No. 622,786. Published July 21, 1953. Class 46.

581,503. Fountain Pens With Nibs of Porous Material, Fountain Brush Pens, and Nibs for Fountain Pens. Dri-Flo Manufacturing Co., Hazel Park, Mich.
Filed Jan. 4, 1952, Serial No. 623,186. Published May 26, 1953. Class 37.

581,504. Tool Steel in the Form of Billets, Forgings, Bars, Sheets, and Plates for Use in Fabricating Into Such Articles as Broaches, Hobs, Drills, Milling Cutters, Lathe Tools, and the Like. Vanadium-Alloys Steel Company, Latrobe, Pa.
Filed Jan. 16, 1952, Serial No. 623,693. Published Mar. 17, 1953. Class 14.

581,505. Fresh Frozen Shrimps and Fresh Breaded Frozen Shrimp. Samuel L. Lewis, doing business under the name of Brunswick Quick Freezer, Brunswick, Ga.
Filed Jan. 23, 1952, Serial No. 623,970. Published Jan. 13, 1953. Class 46.

581,506. Ladies', Misses' Coats. Dave Bellsey Co. Inc., New York, N. Y.
Filed Jan. 25, 1952, Serial No. 624,073. Published May 19, 1953. Class 39.

581,507. Men's, Women's, and Children's Shoes. Shoe Corporation of America, Columbus, Ohio.
Filed Feb. 4, 1952, Serial No. 624,505. Published July 21, 1953. Class 39.

581,508. Moistureproof Paper Cartons and Cups for General Use. United Wallpaper, Inc., Chicago, Ill.
Filed Feb. 6, 1952, Serial No. 624,619. Published July 28, 1953. Class 2.

581,509. Food for Dogs and Cats. Wilson & Co., Inc., Chicago, Ill.
Filed Feb. 16, 1952, Serial No. 625,086. Published May 26, 1953. Class 46.

581,510. Lockets, Neck Chains, Crosses for Personal Wear, Anklets, Key Chains, Waldemars, Identification Bracelets, and Baby Bracelets. Jablow Manufacturing Co., Inc., New York, N. Y.
Filed Feb. 18, 1952, Serial No. 625,106. Published June 9, 1953. Class 28.

581,511. Chemical Tablets Used for Fumigation. West Disinfecting Company, Long Island City, N. Y.
Filed Feb. 18, 1952, Serial No. 625,162. Published May 19, 1953. Class 6.

581,512. Vitamin Preparation for Preventing Nutritional Disorders and Correcting Vitamin Deficiency. McNeil Laboratories, Incorporated, Philadelphia, Pa.
Filed Feb. 20, 1952, Serial No. 625,285. Published July 28, 1953. Class 18.

581,513. Women's and Misses' Shoes. The Walker T. Dickerson Company, Columbus, Ohio.
Filed Feb. 21, 1952, Serial No. 625,345. Published July 21, 1953. Class 39.

581,514. Preparation for the Treatment of Athlete's Foot. Tenny Pharmacy, Inc., New York, N. Y.
Filed Feb. 21, 1952, Serial No. 625,374. Published July 28, 1953. Class 18.

581,515. Vasodilator Designed for Use in Treatment of Raynaud's Disease, Senile Pre-Gangrene and Gangrene, Diabetic Gangrene, Chronic Frostbite, Chilblains, Etc. Kremers-Urban Company, Milwaukee, Wis.
Filed Feb. 29, 1952, Serial No. 625,741. Published July 28, 1953. Class 18.

581,516. Analgesic Preparation. The Wander Company, Chicago, Ill.
Filed Feb. 29, 1952, Serial No. 625,775. Published July 28, 1953. Class 18.

581,517. Wrist-Watch Straps. Lasko Strap Company, New York, N. Y.
Filed Mar. 11, 1952, Serial No. 626,253. Published June 9, 1953. Class 28.

581,518. Boned Fresh Chicken Prepared in Stick Form and Frozen. Turkey Bend Farm, Osage Beach, Mo.
Filed Mar. 17, 1952, Serial No. 626,596. Published July 14, 1953. Class 46.

581,519. Extruded Thermoplastic Products, To-Wit: Rods, Sheet, Tubing, Etc. Anesite Company, Chicago, Ill.
Filed Mar. 26, 1952, Serial No. 627,030. Published July 28, 1953. Class 1.

581,520. Watches. Hamilton Watch Company, Lancaster, Pa.
Filed Mar. 29, 1952, Serial No. 627,262. Published June 9, 1953. Class 27.

581,521. Electrical Hair Waving Machines and Clamps, Etc. The Wella Corporation, New York, N. Y.
Filed Apr. 1, 1952, Serial No. 627,414. Published July 28, 1953. Class 44.

581,522. Dairy, Cattle, Stock, Swine, Pigeon and Horse Feeds, Etc. Northern Milling Company, Wausau, Wis.
Filed Apr. 8, 1952, Serial No. 627,766. Published July 28, 1953. Class 46.

581,523. Brassières, Foundation Garments, Girdles, Corsets, Corselets, and Garter Belts. Kabo, Inc., Chicago, Ill.
Filed Apr. 17, 1952, Serial No. 628,209. Published July 21, 1953. Class 39.

581,524. Gummed Papers in Sheets. Mid-States Gummed Paper Co., Chicago, Ill.
Filed Apr. 18, 1952, Serial No. 628,286. Published June 30, 1953. Class 37.

581,525. Industrial Magazine Published Periodically. Cherry-Burrell Corporation, Chicago, Ill.
Filed Apr. 23, 1952, Serial No. 628,521. Published July 21, 1953. Class 38.

581,526. Endoscopic Instruments—Namely, Peritoneoscopes and Components Thereof. American Cystoscope Makers, Inc., New York, N. Y.
Filed Apr. 30, 1952, Serial No. 628,899. Published July 28, 1953. Class 44.

581,527. Irish Moss Extractives in the Pure State; Irish Moss Extractives With Added Potassium Salts, Etc. Seaplant Chemical Corporation, New Bedford, Mass.
Filed May 6, 1952, Serial No. 629,258. Published July 21, 1953. Class 46.

581,528. Dry-Cleaning Preparations and Grease Solvent. Carbona Products Company, Long Island City, N. Y.
Filed May 8, 1952, Serial No. 629,352. Published July 28, 1953. Class 52.

581,529. Men's, Women's, and Girls' Shoes and Slippers of Leather, Fabric, or Combinations Thereof, and With Leather or Rubber Soles. National Bellas Hess, Inc., North Kansas City, Mo.
Filed May 9, 1952, Serial No. 629,450. Published July 21, 1953. Class 39.

581,530. Roofing Mops and Mop-Like Applicators for Roofing Asphalt and Other Roof Coating Materials. Herbert R. Kirby, doing business as Kirby Industries, Temple City, Calif.
Filed May 13, 1952, Serial No. 629,611. Published July 7, 1953. Class 29.

581,531. Dental Articulators. Harold J. Thompson, doing business as B. & L. Laboratories, Minneapolis, Minn.
Filed May 15, 1952, Serial No. 629,755. Published July 28, 1953. Class 44.

581,532. All Sorts of Paints and Varnishes. J. C. Hempel's Skibsfarvefabrik A/S, Copenhagen, Denmark.
Filed May 16, 1952, Serial No. 629,799. Published July 14, 1953. Class 16.

581,533. Syrup for the Relief of Coughs and Minor Throat Irritations. Manuel Santos, doing business as Tosan Drug Co., New York, N. Y.
Filed May 17, 1952, Serial No. 629,863. Published Apr. 7, 1953. Class 18.

581,534. Cellophane Flakes for Use in Drilling Mud. Magnet Cove Barium Corporation, Bellaire, Tex.
Filed May 19, 1952, Serial No. 629,904. Published July 28, 1953. Class 1.

581,535. Vaporizer for Insecticide Particularly Adapted for Attachment to an Electric Light Bulb. Candle-Lite Chemical Company, Miami, Fla.
Filed May 23, 1952, Serial No. 630,117. Published July 14, 1953. Class 21.

581,536. All Sorts of Paints and Varnishes. J. C. Hempel's Skibsfarvefabrik A/S, Copenhagen, Denmark.
Filed May 24, 1952, Serial No. 630,192. Published July 14, 1953. Class 16.

581,537. Liquid Material for Cleansing the Pores of the Body. Stanley Home Products, Inc., Westfield, Mass.
Filed May 28, 1952, Serial No. 630,454. Published July 28, 1953. Class 52.

581,538. Color Pigments for Use in the Manufacture of Oil Paints and Water Emulsion Latex Paints. United Wallpaper, Inc., Chicago, Ill.
Filed May 28, 1952, Serial No. 630,463. Published July 14, 1953. Class 16.

581,539. Color Pigments for Use in the Manufacture of Oil Paints and Water Emulsion Latex Paints. United Wallpaper, Inc., Chicago, Ill.
Filed May 28, 1952, Serial No. 630,464. Published July 14, 1953. Class 16.

581,540. Hair Nets. G. H. S. Corporation, New York, N. Y.
Filed June 2, 1952, Serial No. 630,594. Published Dec. 2, 1952. Class 39.

581,541. Brassières and Garter Belts for Ladies. Victor Elie Haik, Mexico City, Mexico.
Filed June 3, 1952, Serial No. 630,673. Published July 14, 1953. Class 39.

581,542. Women's Shoes. Morris E. Youngstein, Wilmington, Del.
Filed June 3, 1952, Serial No. 630,693. Published July 21, 1953. Class 39.

581,543. Ladies' Slips and Half Slips. Archdale Manufacturing Co., Inc., High Point, N. C.
Filed June 5, 1952, Serial No. 630,746. Published July 21, 1953. Class 39.

581,544. Horse Radish and Cocktail Sauce. Andrews Horse Radish Co., Inc., Wolcott, Conn.
Filed June 11, 1952, Serial No. 631,036. Published July 21, 1953. Class 46.

581,545. Periodic Publication. E. Leitz, Inc., New York, N. Y.
Filed June 12, 1952, Serial No. 631,109. Published July 14, 1953. Class 38.

581,546. Unpopped Popcorn, Popcorn Popping Oil, Popcorn Salt, and Popcorn Seasoning. Ed. F. Mangelsdorf & Bro., Inc., doing business under the name and style Embro Popcorn Company, St. Louis, Mo.
Filed June 12, 1952, Serial No. 631,112. Published July 14, 1953. Class 46.

581,547. Greeting Cards, Printed Greeting Folders, Printed Seals, and Printed Decorative Tags. Norcross, Inc., New York, N. Y.
Filed June 12, 1952, Serial No. 631,118. Published July 14, 1953. Class 38.

581,548. Small Unwoven Cellulose Pads for Applying Lithographic Solutions to Lithographic Plates. Davidson Corporation, Chicago, Ill.
Filed June 13, 1952, Serial No. 631,150. Published July 7, 1953. Class 29.

581,549. Liquid Neoprene Maintenance Coatings, and Vinyl Protective Coatings. Protective Coatings, Inc., Tampa, Fla.
Filed June 13, 1952, Serial No. 631,176. Published July 14, 1953. Class 16.

581,550. Nose Drops, a Pharmaceutical Preparation. Park Adams Incorporated, Plainfield, N. J.
Filed June 9, 1952, Serial No. 631,393. Published July 28, 1953. Class 18.

581,551. Empty Bags Made of Glassine, Vegetable Parchment, Cellulose Film, Waxed Paper, and Metal Foil. Fruit Products Corporation, New York, N. Y.
Filed June 19, 1952, Serial No. 631,413. Published July 28, 1953. Class 2.

581,552. Seasoning for Meat Products, Consisting of Monosodium Glutamate, Dextrose, Pure Spices, and Spice Extractives. Meat Industry Suppliers, Inc., Chicago, Ill.
Filed June 19, 1952, Serial No. 631,430. Published July 14, 1953. Class 46.

581,553. Women's Shoes. Nusrala-Bowen Shoe Co., Inc., St. Louis, Mo.
Filed June 24, 1952, Serial No. 631,678. Published July 21, 1953. Class 39.

581,554. Salami. Atlantic Trading Food Corp., New York, N. Y.
Filed June 25, 1952, Serial No. 631,716. Published July 14, 1953. Class 46.

581,555. Safety Pins. Charles A. Zemis, Lawrence, Mass.
Filed June 26, 1952, Serial No. 631,838. Published July 14, 1953. Class 40.

581,556. Canned Dietetic Food Products—Namely, Hawaiian Pineapple, Etc. Flotill Products, Inc., Stockton, Calif.
Filed June 27, 1952, Serial No. 631,858. Published July 14, 1953. Class 46.

581,557. Metal Tanks, Specifically, Oil, Gasoline, Butane, and Propane Storage Tanks, Etc. Richmond Engineering Co., Inc., Richmond, Va.
Filed June 30, 1952, Serial No. 631,999. Published July 28, 1953. Class 2.

581,558. Canned Ham. The Griffith Laboratories, Inc., Chicago, Ill.
Filed July 1, 1952, Serial No. 632,030. Published July 28, 1953. Class 46.

581,559. Bicycles. Arnold, Schwinn & Co., Chicago, Ill.
Filed July 2, 1952, Serial No. 632,069. Published July 28, 1953. Class 19.

581,560. Woollen, Cotton, and Mixed Knitting Yarns. Leidsche Wolspinnerij N. V., Leiden, Netherlands.
Filed July 8, 1952, Serial No. 632,253. Published July 14, 1953. Class 43.

581,561. Ball Point Pens, Fountain Pens, Stylo Type Pens, and Mechanical Pencils. Ferber Corporation, Englewood, N. J.
Filed July 10, 1952, Serial No. 632,362. Published July 21, 1953. Class 37.

581,562. Printed Chart and Indicating Device Thereon for Use as a Shopping Reminder. Felix Glats Import Co., Inc., New York, N. Y.
Filed July 10, 1952, Serial No. 632,371. Published July 21, 1953. Class 38.

581,563. Silverware or Tableware Storage Chests. Oneida Ltd., Oneida and Sherrill, N. Y.
Filed July 12, 1952, Serial No. 632,486. Published July 28, 1953. Class 2.

581,564. Leather for Use in the Manufacture of Shoes and Other Articles of Apparel—Namely, Belts and Handbags. Surpass Leather Company, Philadelphia, Pa.
Filed July 14, 1952, Serial No. 632,540. Published July 28, 1953. Class 1.

581,565. Measuring Rule for Fitting Hosiery Consisting of a Combination Foot Size Measuring Device and Adjustable Calculating Scale. Becton Dickinson and Company, Rutherford, N. J.
Filed July 16, 1952, Serial No. 632,589. Published July 21, 1953. Class 26.

581,566. Poison Feed Boxes for Rodents, Sold Empty. Arwell, Inc., Waukegan, Ill.
Filed July 18, 1952, Serial No. 632,711. Published July 28, 1953. Class 2.

581,567. Ceramic Tile for Underground Conduit Systems, Etc. The Ric-Wil Company, Cleveland, Ohio.
Filed July 25, 1952, Serial No. 633,075. Published July 28, 1953. Class 12.

581,568. Boots, Shoes, and Slippers for Men, Women, or Children. Brevitt Shoes Limited, Leicester, England. Priority under Sec. 44(d). British application filed June 6, 1952, Registration No. 707,905.
Filed June 24, 1952, Serial No. 633,236. Published July 21, 1953. Class 39.

581,569. Fingerprint Machine and Apparatus Including an Ink Pad and Paper Roll Both of Which Are Associated With the Machine. Fingerprint, Incorporated, Milwaukee, Wis.
Filed Aug. 4, 1952, Serial No. 633,451. Published July 14, 1953. Class 26.

581,570. Rosaries, Crucifixes, and Religious Medals and Chains, Both Made of Precious Metals. Ferdinand H. Block, doing business as Pfister Jewelry Company, New Iberia, La.
Filed Aug. 6, 1952, Serial No. 633,527. Published June 9, 1953. Class 28.

581,571. Ladies' and Misses' Shoes, Made of Leather, Suede, Canvas, Fabric, or Compositions and Combinations Thereof. F. Burkart Manufacturing Co., St. Louis, Mo.
Filed Aug. 6, 1952, Serial No. 633,531. Published July 21, 1953. Class 39.

581,572. Frozen Confections on Sticks, and Liquid Concentrates for Making the Same. Fruit Products Corporation, New York, N. Y.
Filed Aug. 13, 1952, Serial No. 633,844. Published July 14, 1953. Class 46.

581,573. Periodical Publications. Family Shopper, Inc., New York, N. Y.
Filed Aug. 15, 1952, Serial No. 633,973. Published July 14, 1953. Class 38.

581,574. Shampoo. The Gillette Company, doing business under the name and style of The Toni Company, Boston, Mass.
Filed Aug. 28, 1952, Serial No. 634,589. Published July 28, 1953. Class 52.

581,575. Periodical Published Monthly. A. E. Staley Manufacturing Company, Decatur, Ill.
Filed Sept. 2, 1952, Serial No. 634,763. Published July 21, 1953. Class 38.

581,576. Medicated Dressings. T. J. Smith & Nephew, Limited, Hull, England.
Filed Sept. 3, 1952, Serial No. 634,809. Published July 28, 1953. Class 18.

581,577. Self Emulsifying, Highly Refined Petroleum Oil Used To Eliminate and Inhibit the Growth of Secondary Leaves on Tobacco Plants Commonly Referred to as "Suckers." Pennsylvania Refining Company, Butler, Pa.
Filed Sept. 9, 1952, Serial No. 635,052. Published July 28, 1953. Class 6.

581,578. Shoes for Men, Women, and Children. Helen Phelan, doing business as Trade-A-Shoe, Flushing, N. Y.
Filed Sept. 9, 1952, Serial No. 635,053. Published July 21, 1953. Class 39.

581,579. Prepared Mixture, the Principal Ingredients of Which Are Wheat Flour, Sugar, Shortening, and Powdered Milk. Pillsbury Mills, Inc., Minneapolis, Minn.
Filed Sept. 9, 1952, Serial No. 635,054. Published July 14, 1953. Class 46.

581,580. Wheat Flour. Pillsbury Mills, Inc., Minneapolis, Minn.
Filed Sept. 9, 1952, Serial No. 635,055. Published July 21, 1953. Class 46.

581,581. Wheat Flour. Pillsbury Mills, Inc., Minneapolis, Minn.
Filed Sept. 9, 1952, Serial No. 635,056. Published July 21, 1953. Class 46.

581,582. Boots and Shoes for Men, Women, and Children Made of Leather, Rubber, Fabric, and Combinations Thereof. W. L. Douglas Shoe Company, Nashville, Tenn.
Filed Sept. 18, 1952, Serial No. 635,412. Published July 21, 1953. Class 39.

581,583. Coffee. Jos. Martinson & Co., Inc., New York, N. Y.
Filed Sept. 19, 1952, Serial No. 635,481. Published July 14, 1953. Class 46.

581,584. Coffee. The Fleming Co., Incorporated, Topeka, Kans.
Filed Sept. 20, 1952, Serial No. 635,529. Published July 7, 1953. Class 46.

581,585. Printed Attachable and Detachable Labels, All Sold as Such. The Dayton Rubber Company, Dayton, Ohio.
Filed Sept. 23, 1952, Serial No. 635,636. Published July 21, 1953. Class 38.

581,586. Transportation Vehicles—Namely, Station Wagons, Horse Vans, Automotive Trucks, Refuse Vehicles, Tank Vehicles, Etc. Ford Motor Company Limited, London, England.
Filed Sept. 23, 1952, Serial No. 635,641. Published July 28, 1953. Class 19.

581,587. Fresh Celery. Palmer S. Van Doren, Easton, Pa.; The Easton National Bank, executor, and John E. Hocking, administrator, C. T. A., of said Palmer S. Van Doren, deceased, assignor to John E. Hocking, Williams Township, Pa.
Filed Sept. 26, 1952, Serial No. 635,861. Published July 21, 1953. Class 46.

581,588. Rice. Farmers' Rice Growers Cooperative, San Francisco, Calif.
Filed Sept. 29, 1952, Serial No. 635,910. Published Mar. 10, 1953. Class 46.

581,589. Women's Shoes. Dainty Maid Shoe Company, Inc., Haverhill, Mass.
Filed Oct. 1, 1952, Serial No. 636,001. Published May 12, 1953. Class 39.

581,590. Pressure Sensitive Stencils. John Dempnock, Jr., doing business as The Demp-Nock Company, Van Dyke, Mich.
Filed Oct. 3, 1952, Serial No. 636,121. Published July 14, 1953. Class 37.

581,591. Candy. Norris Inc., Atlanta, Ga.
Filed Oct. 3, 1952, Serial No. 636,145. Published July 28, 1953. Class 46.

581,592. Cakes, Cookies, and Crackers. Weston Biscuit Company Inc., doing business under the name Southern Biscuit Company, Passaic, N. J., and Richmond, Va.
Filed Oct. 6, 1952, Serial No. 636,263. Published July 28, 1953. Class 46.

581,593. Materials Sold as a Unit—Namely, Paint and Small Light Refracting Materials Such as Minute Glass Spheres for Use in Connection With the Fabrication of Highway Markers, Other Markers, and the Like. Prismo Safety Corporation, Huntingdon, Pa.
Filed Oct. 9, 1952, Serial No. 636,431. Published July 14, 1953. Class 16.

581,594. Women's and Misses' Brassières. Caltex Sportswear Co. of California, Inc., Los Angeles, Calif., now by change of name Caltex of California, Inc.
Filed Oct. 15, 1952, Serial No. 636,630. Published July 21, 1953. Class 39.

581,595. Instruments for Measuring Thrust Forces, Said Instruments Comprising Spring Actuated Parallel Bars. The Reflectone Corporation, Stamford, Conn.
Filed Oct. 17, 1952, Serial No. 636,805. Published July 14, 1953. Class 26.

581,596. Bond Paper and Copy and Writing Paper. Gilbert Paper Company, Menasha, Wis.
Filed Oct. 21, 1952, Serial No. 636,929. Published July 14, 1953. Class 37.

581,597. Trade Periodicals, Circulars, and Pamphlets. Cummins Engine Company, Inc., Columbus, Ind.
Filed Oct. 23, 1952, Serial No. 637,039. Published July 21, 1953. Class 38.

581,598. Beerstone Remover for Use in Cleaning Tanks, or the Like, in Breweries. A. Gusmer, Inc., Hoboken, N. J.
Filed Oct. 25, 1952, Serial No. 637,179. Published July 28, 1953. Class 52.

581,599. Embossed Laminated Waterproof Paper Reinforced With Asphalt and Glass Fiber for Use in Packaging. The Cromwell Paper Company, Chicago, Ill.
Filed Oct. 30, 1952, Serial No. 637,363. Published June 30, 1953. Class 37.

581,600. Partially Printed Record Books for Recording Seed Sales and Purchases. Peli-Bari Farms, Inc., Woodstock, Ill.
Filed Oct. 30, 1952, Serial No. 637,397. Published July 14, 1953. Class 37.

581,601. Window and Door Units of the Jalousie Type Including Screen and Storm Sash Usable Therewith. The Casement Hardware Company, Chicago, Ill.
Filed Nov. 1, 1952, Serial No. 637,478. Published July 28, 1953. Class 12.

581,602. Washable Articles of Wearing Apparel—Namely, Coveralls, Etc. Callaway Mills Company, La Grange, Ga.
Filed Nov. 4, 1952, Serial No. 637,569. Published July 21, 1953. Class 39.

581,603. Stencil Sheets and Stencil Papers. Horii Toshado Kabushiki-Kaisha, Chiyoda-ku, Tokyo, Japan.
Filed Nov. 4, 1952, Serial No. 637,633. Published June 30, 1953. Class 37.

581,604. Stencil Sheets and Stencil Papers. Horii Toshado Kabushiki-Kaisha, Chiyoda-ku, Tokyo, Japan.
Filed Nov. 4, 1952, Serial No. 637,634. Published June 30, 1953. Class 37.

581,605. Shoes for Women and Girls. Algy Shoes, Inc., Everett, Mass.
Filed Nov. 5, 1952, Serial No. 637,635. Published July 21, 1953. Class 39.

581,606. Column for Publications Issued Periodically. United Grocers, Ltd., San Francisco, Calif.
Filed Nov. 10, 1952, Serial No. 637,895. Published July 14, 1953. Class 38.

581,607. Girdles. Artistic Foundations, Inc., New York, N. Y.
Filed Nov. 14, 1952, Serial No. 638,052. Published July 14, 1953. Class 39.

581,608. Fishing Equipment—Namely, Rods, Reels, Lines, Hooks, Flies, Etc. Adolph Blaich, Incorporated, San Francisco, Calif.
Filed Nov. 14, 1952, Serial No. 638,058. Published July 28, 1953. Class 22.

581,609. Medicaments—Namely, External Application for the Prevention of Infection, Etc. S. Pfeiffer Manufacturing Company, St. Louis, Mo.
Filed Nov. 14, 1952, Serial No. 638,095. Published July 7, 1953. Class 18.

581,610. Men's, Women's, and Children's Overalls, Jackets, Outer Shirts, Coats, Slacks, and Pants; Women's and Children's Blouses, Outer Shorts, Pedal Pushers, Vests, Skirts, and Culottes; and Women's Bras. Levi Strauss & Company, San Francisco, Calif.
Filed Nov. 18, 1952, Serial No. 638,273. Published July 21, 1953. Class 39.

581,611. Pork Sausage. Bird Provision Co., Pekin, Ill.
Filed Nov. 20, 1952, Serial No. 638,347. Published July 28, 1953. Class 46.

581,612. Correspondence Envelopes. Berlin & Jones Co., Inc., New York, N. Y.
Filed Nov. 21, 1952, Serial No. 638,395. Published July 14, 1953. Class 37.

581,613. Ready Mixed, Custom Mixed, and Semi-Paste Paints; Enamels, Stains, Varnishes, and Lacquers. The Martin-Senour Company, Chicago, Ill.
Filed Nov. 21, 1952, Serial No. 638,427. Published July 14, 1953. Class 16.

581,614. Cellulose Sponges. Edward C. Walker, doing business under the name and style of Kozak, Batavia, N. Y.
Filed Nov. 21, 1952, Serial No. 638,457. Published July 28, 1953. Class 1.

581,615. Descriptive Brochures and Handbooks Issued From Time to Time. International Telephone and Telegraph Corporation, New York, N. Y.
Filed Nov. 22, 1952, Serial No. 638,489. Published July 14, 1953. Class 38.

581,616. Writing Tablets, Note and Composition Books, Etc. Lakeside Central Company, Chicago, Ill.
Filed Nov. 24, 1952, Serial No. 638,542. Published July 14, 1953. Class 37.

581,617. Mailing Envelopes. Lakeside Central Company, Chicago, Ill.
Filed Nov. 24, 1952, Serial No. 638,543. Published July 14, 1953. Class 37.

581,618. Women's Shoes Made From Leather, Fabric, Rubber, or Combinations of These Materials. The Selby Shoe Company, Portsmouth, Ohio.
Filed Nov. 26, 1952, Serial No. 638,667. Published July 21, 1953. Class 39.

581,619. Cut Flowers, Foliage, and Natural Flowers. Allen Robbins, New York, N. Y.
Filed Nov. 29, 1952, Serial No. 638,779. Published July 28, 1953. Class 1.

581,620. Insecticides for Household Use and Use on Animals and in Agriculture. Cela Landwirtschaftliche Chemikalien G. m. b. H., Ingelheim am Rhein, Germany.
Filed Oct. 28, 1952, Serial No. 639,099. Published July 28, 1953. Class 6.

581,621. Section in a Periodic Publication. Meredith Publishing Company, Des Moines, Iowa.
Filed Dec. 6, 1952, Serial No. 639,121. Published July 21, 1953. Class 38.

581,622. Section in a Periodic Publication. Meredith Publishing Company, Des Moines, Iowa.
Filed Dec. 6, 1952, Serial No. 639,123. Published July 21, 1953. Class 38.

581,623. Section in a Periodic Publication. Meredith Publishing Company, Des Moines, Iowa.
Filed Dec. 6, 1952, Serial No. 639,124. Published July 21, 1953. Class 38.

581,624. Section in a Periodic Publication. Meredith Publishing Company, Des Moines, Iowa.
Filed Dec. 6, 1952, Serial No. 639,126. Published July 21, 1953. Class 38.

581,625. Section in a Periodic Publication. Meredith Publishing Company, Des Moines, Iowa.
Filed Dec. 6, 1952, Serial No. 639,127. Published July 21, 1953. Class 38.

581,626. Section in a Periodic Publication. Meredith Publishing Company, Des Moines, Iowa.
Filed Dec. 6, 1952, Serial No. 639,128. Published July 21, 1953. Class 38.

581,627. Section in a Periodic Publication. Meredith Publishing Company, Des Moines, Iowa.
Filed Dec. 6, 1952, Serial No. 639,130. Published July 21, 1953. Class 38.

581,628. Section in a Periodic Publication. Meredith Publishing Company, Des Moines, Iowa.
Filed Dec. 6, 1952, Serial No. 639,131. Published July 21, 1953. Class 38.

581,629. Section in a Periodic Publication. Meredith Publishing Company, Des Moines, Iowa.
Filed Dec. 6, 1952, Serial No. 639,132. Published July 21, 1953. Class 38.

581,630. Section in a Periodic Publication. Meredith Publishing Company, Des Moines, Iowa.
Filed Dec. 6, 1952, Serial No. 639,138. Published July 21, 1953. Class 38.

581,631. Canned Tomatoes, Canned Tomato Paste, Cheese for Grating Purposes, and Macaroni. Jean Bari & Co., Inc. Import-Export, Cliffside Park, N. J.
Filed Dec. 13, 1952, Serial No. 639,407. Published July 28, 1953. Class 46.

581,632. Preparation of Chloral Hydrate for Use Rectally as a Sedative. Fellows Medical Manufacturing Company, Inc., New York, N. Y.
Filed Dec. 13, 1952, Serial No. 639,422. Published July 28, 1953. Class 18.

581,633. Natural and Synthetic Air-Curing Liquid Rubber. Industrial Rubber Products, Inc., Des Moines, Iowa.
Filed Dec. 15, 1952, Serial No. 639,473. Published July 28, 1953. Class 1.

581,634. Canned Oysters and Canned Shrimp. L. P. Maggioni & Company, Savannah, Ga.
Filed Dec. 15, 1952, Serial No. 639,483. Published July 21, 1953. Class 46.

581,635. Slide Fasteners, Stringers, and Sliders for Slide Fasteners. Lewis Weiner, doing business as Lewis Weiner Engineering Co., Long Island City, N. Y.
Filed Dec. 16, 1952, Serial No. 639,599. Published June 9, 1953. Class 13.

581,636. Watch Bracelets Sold Separately From the Watches. Jacoby-Bender, Inc., New York, N. Y.
Filed Dec. 17, 1952, Serial No. 639,646. Published June 9, 1953. Class 28.

581,637. Magazine Published Quarterly. The Parents' Institute, Inc., New York, N. Y.
Filed Dec. 18, 1952, Serial No. 639,710. Published July 14, 1953. Class 38.

581,638. Magazine Published Quarterly. The Parents' Institute, Inc., New York, N. Y.
Filed Dec. 18, 1952, Serial No. 639,711. Published July 14, 1953. Class 38.

581,639. Book. R. Clark Tucker, Baltimore, Md.
Filed Dec. 19, 1952, Serial No. 639,795. Published July 14, 1953. Class 38.

581,640. Fountain Pens. Sears, Roebuck and Co., Chicago, Ill.
Filed Dec. 20, 1952, Serial No. 639,842. Published July 21, 1953. Class 37.

581,641. Women's, Misses', and Juniors' Dresses, Blouses, Skirts, Shorts, and Slacks. Litt & Co., New York, N. Y.
Filed Dec. 23, 1952, Serial No. 639,943. Published July 14, 1953. Class 39.

581,642. Books. Lula A. Shaver, Middletown, N. Y.
Filed Dec. 23, 1952, Serial No. 639,961. Published July 14, 1953. Class 38.

581,643. Section of Publication Issued From Time to Time. Tanners' Council of America, Inc., New York, N. Y., assignor to Ruth Kerr Fries, New York, N. Y.
Filed Dec. 30, 1952, Serial No. 640,174. Published July 14, 1953. Class 38.

581,644. Newspaper Feature, Published From Time to Time, Containing Republished Items of Past Events With Illustration and Descriptive Matter Rewritten in Whole or Part. Joseph Clemens Gretter, doing business as Gretter Features, Wilton and Norwalk, Conn.
Filed Dec. 31, 1952, Serial No. 640,211. Published July 14, 1953. Class 38.

581,645. Packaged Meats—Namely, Calves' Tongues, Pork Sausages, and Stewed Steak, Etc. Aplin & Barrett Limited, Yeovil, Somerset, England.
Filed Jan. 6, 1953, Serial No. 640,387. Published July 21, 1953. Class 46.

581,646. Sauerkraut. Mother's Food Products, Inc., Newark, N. J.
Filed Jan. 7, 1953, Serial No. 640,470. Published July 21, 1953. Class 46.

581,647. Dolls. Bal Dolls, Inc., New York, N. Y.
Filed Jan. 8, 1953, Serial No. 640,489. Published July 14, 1953. Class 22.

581,648. Lawn Grass Seed. Germain's, Inc., Los Angeles, Calif.
Filed Jan. 13, 1953, Serial No. 640,678. Published July 28, 1953. Class 1.

581,649. Panties for Women. Yolande Corporation, New York, N. Y.
Filed Jan. 14, 1953, Serial No. 640,767. Published July 14, 1953. Class 39.

581,650. Milled Rice. Edmundson-Duhe Rice Mill Company, Inc., Rayne, La.
Filed Jan. 15, 1953, Serial No. 640,789. Published July 21, 1953. Class 46.

581,651. Reaction Product of Sulfur and a Mixture of Phenanthrenic and Vegetable Fatty Acids, Forming a Brown Viscous Oil at Ordinary Temperatures, Used as an Extender and Fortifier in the Production of Rubber Articles. Thermoid Chemical Co., Trenton, N. J.
Filed Jan. 15, 1953, Serial No. 640,822. Published July 28, 1953. Class 6.

581,652. Vitamin Concentrates Used as Ingredients of Poultry and Livestock Feeds. Commercial Solvents Corporation, New York, N. Y.
Filed Jan. 16, 1953, Serial No. 640,848. Published July 28, 1953. Class 18.

581,653. Parenteral Solutions Comprising Dextran in a Saline Solution. Baxter Laboratories, Inc., Morton Grove, Ill.
Filed Jan. 19, 1953, Serial No. 640,901. Published July 7, 1953. Class 18.

581,654. Synthetic Brush Filaments. Frederick H. Cone & Company Incorporated, New York, N. Y.
Filed Jan. 19, 1953, Serial No. 640,915. Published July 28, 1953. Class 1.

581,655. Ladies' and Men's Gloves of Leather, Fabric, and Combinations Thereof. Edward M. Reece, New York, N. Y.
Filed Jan. 19, 1953, Serial No. 640,962. Published July 21, 1953. Class 39.

581,656. Ladies' and Misses' Shoes of Leather and Fabric. Samuels Shoe Company, St. Louis, Mo.
Filed Jan. 19, 1953, Serial No. 640,965. Published July 21, 1953. Class 39.

581,657. Medicinal Preparation Affecting Responses to Nervous Stimulation. Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc., a corporation of New Jersey.
Filed Jan. 23, 1953, Serial No. 641,211. Published July 28, 1953. Class 18.

581,658. Hematinic Preparation. Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc., a corporation of New Jersey.
Filed Jan. 23, 1953, Serial No. 641,212. Published July 28, 1953. Class 18.

581,659. Canned Tuna Fish, Crabmeat, Mandarin Oranges, Asparagus, Oysters, and Clams. Tozai Koeki Kaisha, Ltd., Tokyo, Japan.
Filed Dec. 19, 1952, Serial No. 641,239. Published July 14, 1953. Class 46.

581,660. Preparation for the Relief of Throat Ailments. Doho Chemical Corporation, New York, N. Y.
Filed Jan. 26, 1953, Serial No. 641,278. Published July 28, 1953. Class 18.

581,661. Medicines for the Treatment of Rectal and Vaginal Disorders. Mallon Chemical Corp., New York, N. Y.
Filed Jan. 26, 1953, Serial No. 641,313. Published July 28, 1953. Class 18.

581,662. Paint Brushes. Pittsburgh Plate Glass Company, Pittsburgh, Pa.
Filed Jan. 26, 1953, Serial No. 641,327. Published July 14, 1953. Class 29.

581,663. Fresh Apples. Cowiche Growers, Inc., Cowiche, Wash.
Filed Jan. 27, 1953, Serial No. 641,369. Published July 14, 1953. Class 46.

581,664. Comb, Mirror, and Brush Sets, and Comb and Hand Mirror Sets. Helene Pessl, Inc., New York, N. Y.
Filed Jan. 27, 1953, Serial No. 641,378. Published July 14, 1953. Class 40.

581,665. Cookies. Safeway Stores, Incorporated, Oakland, Calif.
Filed Jan. 26, 1953, Serial No. 641,416. Published July 28, 1953. Class 46.

581,666. Medicinal Preparation for the Treatment of Respiratory Disorders. The Upjohn Company, Kalamazoo, Mich.
Filed Jan. 29, 1953, Serial No. 641,533. Published July 28, 1953. Class 18.

581,667. Preparation for the Prevention and Treatment of Animal Scours. Mathieson Chemical Corporation, New York, N. Y.
Filed Jan. 30, 1953, Serial No. 641,561. Published July 28, 1953. Class 18.

581,668. Fishing Lures—Namely, Spinners. Elizabeth S. Scanlan, doing business as Aeroplane Tackle Manufacturing Co., Denver, Colo.
Filed Jan. 30, 1953, Serial No. 641,576. Published July 14, 1953. Class 22.

581,669. Buttons of Non-Metallic Material. The Manhattan Shirt Company, New York, N. Y.
Filed Feb. 2, 1953, Serial No. 641,625. Published July 14, 1953. Class 40.

581,670. Technical Bulletin Issued From Time to Time. Atlas Powder Company, Wilmington, Del.
Filed Feb. 3, 1953, Serial No. 641,665. Published July 14, 1953. Class 38.

581,671. Children's Swings — Namely, Chain Swings, Level Bar Swings, Acting Bar Swings, and Supporting Framework for Such Swings. J & W Steel Products, Inc., Bessemer, Ala.
Filed Feb. 3, 1953, Serial No. 641,681. Published July 21, 1953. Class 22.

581,672. Brooches. Singer-Cohen Inc., New York, N. Y.
Filed Feb. 3, 1953, Serial No. 641,696. Published June 9, 1953. Class 28.

581,673. Sterling Silver and Sterling Silver Mounted Flatware and Table Cutlery. Towle Manufacturing Company, Newburyport, Mass.
Filed Feb. 6, 1953, Serial No. 641,873. Published June 9, 1953. Class 28.

581,674. Sterling Silver and Sterling Silver Mounted Flatware and Table Cutlery. Towle Manufacturing Company, Newburyport, Mass.
Filed Feb. 6, 1953, Serial No. 641,874. Published June 9, 1953. Class 28.

581,675. Magazine Published Quarterly. The Parents' Institute, Inc., New York, N. Y.
Filed Feb. 9, 1953, Serial No. 641,960. Published July 14, 1953. Class 38.

581,676. Crystallized Honey. R. D. Bradshaw & Sons, Wendell, Idaho.
Filed Feb. 10, 1953, Serial No. 642,010. Published July 21, 1953. Class 46.

581,677. Canned, Spiced, Smoked, Salted, and Barbecued Fish; Herring in Sour Cream; Fresh Salmon Roe Caviar; Seafood Cocktail Comprised of Halibut and Shrimp in Seasoned Tomato Puree. Los Angeles Smoking & Curing Co., Los Angeles, Calif.
Filed Feb. 10, 1953, Serial No. 642,038. Published July 14, 1953. Class 46.

581,678. Publications Issued From Time to Time. The Institute of Radio Engineers, Inc., New York, N. Y.
Filed Feb. 12, 1953, Serial No. 642,144. Published July 21, 1953. Class 38.

581,679. House Organ, Issued Periodically. Miller Electric Manufacturing Co., Inc., Appleton, Wis.
Filed Feb. 13, 1953, Serial No. 642,237. Published July 21, 1953. Class 38.

581,680. Aircraft Designated as Jet Airplane. North American Aviation, Inc., Los Angeles, Calif.
Filed Feb. 17, 1953, Serial No. 642,364. Published July 28, 1953. Class 19.

581,681. Flour. The Security Milling Co., Inc., Abilene, Kans.
Filed Feb. 17, 1953, Serial No. 642,374. Published July 7, 1953. Class 46.

581,682. Brassières. Lilyette Brassiere Co., Inc., New York, N. Y.
Filed Feb. 18, 1953, Serial No. 642,412. Published July 21, 1953. Class 39.

581,683. Prepared Salad Dressings and Canned Soups. T. Marzetti Company, Columbus, Ohio.
Filed Feb. 19, 1953, Serial No. 642,482. Published July 21, 1953. Class 46.

581,684. Men's, Women's, and Children's Boots, Shoes, and Slippers Made of Leather, Fabric, Rubber, and Combinations of Said Materials. R. H. Fyfe & Co., Detroit, Mich.
Filed Jan. 30, 1953, Serial No. 642,509. Published July 21, 1953. Class 39.

581,685. Girdles. Kabo, Inc., Chicago, Ill.
Filed Feb. 20, 1953, Serial No. 642,558. Published July 21, 1953. Class 39.

581,686. Women's and Children's Blouses and Dresses. Advance Buying Corp., New York, N. Y.
Filed Feb. 25, 1953, Serial No. 642,720. Published July 21, 1953. Class 39.

581,687. Animal Feeds—Namely, Canned Dog Foods. R. G. Free, doing business under the style name of Pet Food Packers, Washington Court House, Ohio.
Filed Feb. 26, 1953, Serial No. 642,810. Published July 21, 1953. Class 46.

581,688. Sterling Silver Flatware. Century Metalcraft Corporation, Los Angeles, Calif.
Filed Feb. 27, 1953, Serial No. 642,870. Published June 9, 1953. Class 28.

581,689. Plastic Garment Storage Bag. Rassenfoss Bag Company, Glenview, Ill.
Filed Mar. 5, 1953, Serial No. 643,186. Published July 28, 1953. Class 2.

581,690. Play Nurse First Aid Kit. The Kendall Company, Boston, Mass.
Filed Mar. 26, 1953, Serial No. 644,237. Published July 28, 1953. Class 22.

581,691. Doll Clothes. Grant Toy Co., Van Nuys, Calif.
Filed Mar. 30, 1953, Serial No. 644,415. Published July 21, 1953. Class 22.

581,692. Coffee. Standard Brands Incorporated, New York, N. Y.
Filed Mar. 30, 1953, Serial No. 644,464. Published July 14, 1953. Class 46.

581,693. Candy Bars. Schutter Candy Company, Chicago, Ill.
Filed Apr. 6, 1953, Serial No. 644,797. Published July 21, 1953. Class 46.

581,694. Canned, Fresh, and Fresh Frozen Vegetables. L. P. Maggioni & Company, Savannah, Ga.
Filed Apr. 14, 1953, Serial No. 645,248. Published July 21, 1953. Class 46.

581,695. Green Coffee Sold in Bulk Only. J. Aron & Company, Inc., New York, N. Y.
Filed Apr. 16, 1953, Serial No. 645,374. Published July 21, 1953. Class 46.

Service Marks

581,696. Railroad and Bus Transportation of Passengers and for Railroad and Truck Transportation of Property. The Atchison, Topeka and Santa Fe Railway Company, Chicago, Ill.
Filed Feb. 28, 1948, Serial No. 550,775. Published July 21, 1953. Class 105.

581,697. Cleaning, Dyeing, Renovating of Carpets, Rugs, and the Like. Magikist Service Corporation, Chicago, Ill.
Filed Aug. 16, 1949, Serial No. 583,542. Published July 28, 1953. Class 103.

581,698. Travel Services—Namely, Arranging Tours for Travelers, Making Train, Ship, Bus, and Plane Reservations for Travelers, and Conducting Tours for Tourists. Walter C. Rushmore, doing business as Travel Kader and as American National Travelers Service, Denver, Colo.
Filed Mar. 31, 1950, Serial No. 594,996. Published July 14, 1953. Class 105.

581,699. Providing for Regular Purchases of Securities by Investors by Means of a Deposit System Installed in Banking Institutions. Vance, Sanders & Company, Boston, Mass.
Filed Apr. 16, 1951, Serial No. 612,713. Published July 14, 1953. Class 101.

581,700. Underwriting of Fire and Casualty Insurance. Lansing B. Warner, Incorporated, Chicago, Ill.
Filed June 25, 1951, Serial No. 615,670. Published July 14, 1953. Class 102.

581,701. Health Counselling and Care Service Providing for Periodic Medical Examinations and Preventive Medical Care for Executives of Various Companies. Interstate Bakeries Corporation, Kansas City, Mo., doing business as The Gold Cross Organization, Chicago, Ill.
Filed Dec. 1, 1951, Serial No. 621,965. Published July 21, 1953. Class 100.

581,702. Marketing Research and Store Auditing Service—Namely, Measuring the Over-the-Counter Movement of Manufacturers' or Competitors' Products in Retail Stores. Selling Research, Inc., New York, N. Y.
Filed Mar. 20, 1952, Serial No. 626,752. Published July 14, 1953. Class 101.

581,703. Preparation, Planning, Detailing, Printing, Lay-Out, and Writing of Catalogues in Engineering, Medical, and Technical Fields. Technilogs, Philadelphia, Pa.
Filed June 2, 1952, Serial No. 630,632. Published July 21, 1953. Class 101.

581,704. General Insurance Brokerage. Raymond D. Appelgate, doing business as Ray D. Appelgate Agency, Rockville Centre, N. Y.
Filed Sept. 22, 1952, Serial No. 635,576. Published July 14, 1953. Class 102.

581,705. Transportation of General Cargo by Steamship. Weyerhaeuser Timber Company, Tacoma, Wash.
Filed Nov. 14, 1952, Serial No. 638,114. Published July 28, 1953. Class 105.

581,706. Providing and Arranging Credit Facilities to Customers of Merchandising Establishments, Hotels, Restaurants, Entertaining Establishments, Theaters, Public and Private Carriers, and Travel Agencies. Tourex Company of America, Inc., New York, N. Y.
Filed Dec. 5, 1952, Serial No. 639,087. Published July 14, 1953. Class 102.

581,707. Chemical Treatment of Lumber To Render the Same Resistable to Rot, Termites, and Warping. Jordan Lumber Co., Memphis, Tenn.
Filed Dec. 15, 1952, Serial No. 639,474. Published July 28, 1953. Class 100.

581,708. Servicing Automobiles—Namely, Inspection, Lubrication, Greasing, and Washing, Etc. Sun Oil Company, Philadelphia, Pa.
Filed May 25, 1949, Serial No. 579,521. Published July 21, 1953. Class 103.

Collective Mark

581,709. Building a Fellowship of Women and Girls Devoted to the Task of Realizing in Their Common Life Those Ideals of Personal and Social Living to Which They Are Committed by Their Faith as Christians. The National Board of The Young Women's Christian Association of the U. S. A., New York, N. Y., by change of name from The National Board of The Young Women's Christian Associations of the United States of America.
Original filed, act of 1905, Mar. 28, 1947; amended to application under act of 1946, Principal Register, June 23, 1948, Serial No. 519,770. Published July 21, 1953. Class 100.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

581,710. (Class 12. Construction Materials.) The Philip Carey Manufacturing Company, Cincinnati, Ohio. Original filed, act of 1946, Principal Register, June 4, 1949; amended to application, Supplemental Register, July 23, 1953, Serial No. 579,966.

FIRE CHEX

For Shingles.
Claims use since Apr. 14, 1949.

581,711. (Class 21. Electrical Apparatus, Machines, and Supplies.) Convert-A-Phone Company, Incorporated, Birmingham, Ala. Original filed, act of 1946, Principal Register, Sept. 20, 1950; amended to application, Supplemental Register, Apr. 10, 1953, Serial No. 603,769.

Convert-A-Phone

For Amplifying Apparatus for Telephones.
Claims use since May 8, 1950.

581,712. (Class 21. Electrical Apparatus, Machines, and Supplies.) Duro-Test Corporation, North Bergen, N. J. Original filed, act of 1946, Principal Register, Nov. 1, 1950; amended to application, Supplemental Register, Oct. 19, 1951, Serial No. 605,733.

TRU-WHITE

For Incandescent and Fluorescent Lamps.
Claims use since Oct. 17, 1950.

581,713. (Class 12. Construction Materials.) Concrete Conduit Company, Colton, Calif. Original filed, act of 1946, Principal Register, Feb. 19, 1951; amended to application, Supplemental Register, Sept. 8, 1952, Serial No. 610,256.

SLIP-TITE

For Reinforced Concrete Pipe and Collars.
Claims use since Oct. 23, 1950.

581,714. (Class 51. Cosmetics and Toilet Preparations.) Bymart, Inc., Dover, Del., and New York, N. Y., now by change of name Bymart-Tintair, Inc. Original filed, act of 1946, Principal Register, May 11, 1951; amended to application, Supplemental Register, Apr. 20, 1953, Serial No. 613,760.

LIGHTENING CHANGE

For Hair Coloring Preparations.
Claims use since May 1, 1951.

581,715. (Class 52. Detergents and Soaps.) Lavery & Sanders, Philadelphia, Pa. Original filed, act of 1946, Principal Register, Aug. 13, 1951; amended to application, Supplemental Register, June 26, 1953, Serial No. 617,619.

X-tra wash

The word "Wash" is disclaimed.
For Liquid Detergents for Addition to Water To Clean Dishes, Glassware, Cars, and Other Objects.
Claims use since Dec. 15, 1947.

581,716. (Class 22. Games, Toys, and Sporting Goods.) Lif-Lik Lure Co., Kansas City, Mo., assignor to Don Dee McDonald, Kansas City, Mo. Original filed, act of 1946, Principal Register, Aug. 18, 1951; amended to application, Supplemental Register, June 30, 1952, Serial No. 617,844.

LIF-LIK Lures

For Fishing Tackle—Namely, Artificial Lures.
Claims use since Mar. 30, 1951.

581,717. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Vulcan Manufacturing Co., Inc., Winona, Minn. Original filed, act of 1946, Principal Register, Sept. 8, 1951; amended to application, Supplemental Register, Aug. 10, 1953, Serial No. 618,560.

TRIPOD

For Automobile Jacks.
Claims use since Apr. 1, 1949.

581,718. (Class 19. Vehicles.) Raymond A. Neitzke, Estherville, Iowa. Original filed, act of 1946, Principal Register, Sept. 20, 1951; amended to application, Supplemental Register, Sept. 2, 1952, Serial No. 619,030.

ROLLA-TARP

For Cylindrical Manually Operable Reel Carrying an Extensible and Retractable Tarpaulin, Said Reel Being Adapted for Mounting on an Open-Top Truck, Whereby the Tarpaulin Serves as a Top When Extended.
Claims use since Sept. 15, 1950.

581,719. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) American Saw and Manufacturing Company, Springfield, Mass. Original filed, act of 1946, Principal Register, Oct. 10, 1951; amended to application, Supplemental Register, Aug. 29, 1952, Serial No. 619,795.

LENOX

For Hole Saws.
Claims use since October 1950.

581,720. (Class 21. Electrical Apparatus, Machines, and Supplies.) Continental Radiant Glass Heating Corporation, New York, N. Y. Filed Oct. 13, 1951, Serial No. 619,965.

Glassheat

For Electrically Energized Heating Equipment—Namely, Wall and Ceiling Mounted Heaters Utilising Heat Emitting Glass.
Claims use since on or about Sept. 2, 1949.

581,721. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) The Marley Company, Inc., Kansas City, Kans. Original filed, act of 1946, Principal Register, Nov. 10, 1951; amended to application, Supplemental Register, Aug. 3, 1953, Serial No. 621,106.

TWINFLEX

For Drive Shaft Couplings.
Claims use since Oct. 15, 1951.

581,722. (Class 21. Electrical Apparatus, Machines, and Supplies.), Portable Electric Tools, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Mar. 13, 1952; amended to application, Supplemental Register, Aug. 10, 1953, Serial No. 626,409.

SUPERDUTY

For Electrically Operated Apparatus and Tools—Namely, Portable Drills and Electric Motors.
Claims use since Nov. 8, 1950.

581,723. (Class 28. Jewelry and Precious-Metal Ware.) Reed and Barton Corporation, Taunton, Mass. Original filed, act of 1946, Principal Register, Apr. 9, 1952; amended to application, Supplemental Register, June 10, 1953, Serial No. 627,839.

SILVER WHEAT

For Silverware—Namely, Sterling Flatware.
Claims use since Apr. 7, 1952.

581,724. (Class 52. Detergents and Soaps.) Stephen L. Mudd, trading as Ezy Products, Atlanta, Ga. Original filed, act of 1946, Principal Register, Apr. 21, 1952; amended to application, Supplemental Register, Apr. 9, 1953, Serial No. 628,418.

KAR KLEEN

For Upholstery Cleaner for Removing Blood, Grime, Grease, Gum, Oil, Drink Stains, and Natural Dirt.
Claims use since May 8, 1939.

581,725. (Class 52. Detergents and Soaps.) Stephen L. Mudd, trading as Ezy Products, Atlanta, Ga. Original filed, act of 1946, Principal Register, Apr. 21, 1952; amended to application, Supplemental Register, Apr. 9, 1953, Serial No. 628,419.

EZY

For General Household Cleaner, for Cleaning Rugs, Upholstered Furniture, Tapestry, Brick, Tile, Linoleum, and Woodwork.
Claims use since Sept. 5, 1945.

581,726. (Class 6. Chemicals and Chemical Compositions.) National Sales, Inc., Wichita, Kans. Original filed, act of 1946, Principal Register, Aug. 30, 1952; amended to application, Supplemental Register, Aug. 17, 1953, Serial No. 634,701.

AMBER AIR

For Air Entraining Agent To Be Mixed With Concrete To Expand and Make the Same Porous.
Claims use since Aug. 1, 1952.

581,727. (Class 33. Glassware.) American Fused Quartz Company, Inc., Dover, N. J. Original filed, act of 1946, Principal Register, Sept. 3, 1952; amended to application, Supplemental Register, June 12, 1953, Serial No. 634,771.

AMERICAN

The words "Fused," "Quartz," "Co.," "Dover," and "N. J." are disclaimed.
For Fused Quartz Pipes, Pipe Fittings, and Accessories—Namely, Flanges, Couplings, and Bolts.
Claims use since July 16, 1947.

581,728. (Class 52. Detergents and Soaps.) Industrial Soap Company, St. Louis, Mo. Original filed, act of 1946, Principal Register, Sept. 18, 1952; amended to application, Supplemental Register, Aug. 12, 1953, Serial No. 635,417.

SHEPARD

For Cleaning Compositions.
Claims use since July 7, 1952.

581,729. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Original filed, act of 1946, Principal Register, Nov. 24, 1952; amended to application, Supplemental Register, Aug. 6, 1953, Serial No. 638,528.

NO-CLAMP

For Meat and Vegetable Chopper.
Claims use since Dec. 21, 1949.

581,730. (Class 44. Dental, Medical, and Surgical Appliances.) Fred. Haslam & Co., Inc., Brooklyn, N. Y. Filed Nov. 28, 1952.

Haslam

Applicant claims ownership of Registration No. 300,143.
For Dissecting, Post Mortem, and General Operating Instruments—Namely, Knives, Forceps, Hooks, Chisels, Lancets, Scissors, Scalpels, Perforators, Trocars and Canulae, Sponge Rings, Curettes, Spatulae, Dressing Shears, Saws, Extension Apparatus, Tongs and Bone Instruments, Diagnostic Instruments, Percussors, Fleximeters, Directors, Probes, Sounds, Sphygmomanometers, Spirometers, Stethoscopes, Ampliphones, Vacuum Apparatus, Blood Transfusion Apparatus, Hypodermic and Other Syringes, Ligature Needles and Needle Holders, Head Bands and Mirrors, Tongue Depressors, Douches, Aspirators, Cauteries, Anaesthetic Apparatus and Instruments, Mouth Gags, Eye, Ear, Mastoid, Hearing, Mouth, Nasal, Dermal, Dental, Oral, Tonsil, Laryngeal, Stomach and Intestinal, Abdominal, Rectal, Urethral, Prostatic, Vesicle, Gynecic and Obstetric Instruments.
Claims use since at least as early as about July 1, 1917.

581,731. (Class 1. Raw or Partly Prepared Materials.) Eagle-Ottawa Leather Company, Grand Haven, Mich. Original filed, act of 1946, Principal Register, Feb. 24, 1953; amended to application, Supplemental Register, July 29, 1953, Serial No. 642,627.

WINDSOR

For Leather.
Claims use since July 1950.

581,732. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) E. F. Vilter Co., Milwaukee, Wis. Original filed, act of 1946, Principal Register, Mar. 27, 1953; amended to application, Supplemental Register, Aug. 13, 1953, Serial No. 644,357.

TRU-HOLE

For Machine Tools—Namely, Boring and Finishing Tools.
Claims use since Mar. 10, 1952.

581,733. (Class 21. Electrical Apparatus, Machines, and Supplies.) Hoffman Radio Corporation, Los Angeles, Calif. Filed Apr. 30, 1953, Serial No. 645,753.

EASY—VISION

For Television Receiving Sets.
Claims use since Feb. 3, 1949.

581,734. (Class 10. Fertilizers.) Frank Goldthwaite, doing business as Goldthwaite's Texas Toro Co., Fort Worth, Tex. Filed May 8, 1953, Serial No. 646,667.

Goldthwaite's TURF SPECIAL

For Fertilizer.
Claims use since Mar. 28, 1951.

TRADE-MARK REGISTRATIONS RENEWED

40,911. THERE'S A REASON. Registered Aug. 11, 1903. Postum Cereal Co., Limited, Battle Creek, Mich. Re-renewed Aug. 11, 1953, to General Foods Corporation, New York, N. Y., a corporation of Delaware. Cereal Breakfast-Foods. Class 46.

41,265. REX. Registered Oct. 6, 1903. Crucible Steel Company of America, Pittsburgh, Pa., a corporation of New Jersey. Re-renewed Oct. 6, 1953. Tool-Steel in Bars and Other Forms. Class 14.

92,148. "MOOSE-A-BEC" AND REPRESENTATION OF MOOSE HEAD. Registered June 17, 1913. William Underwood Company, Boston, Mass. Re-renewed June 17, 1953, to William Underwood Company, Watertown, Mass., a voluntary association of Massachusetts. Canned Sardines. Class 46.

92,539. EASTER. Registered July 15, 1913. The Danahy Packing Company, Buffalo, N. Y., a corporation of New York. Re-renewed July 15, 1953. Fresh and Cured Pork. Class 46.

93,111. "ROTEX". Registered Aug. 19, 1913. The Orville Simpson Company, Cincinnati, Ohio, a corporation of Ohio. Re-renewed Aug. 19, 1953. Milling-Machines. Class 23.

93,847. KETOS. Registered Oct. 21, 1913. Halcomb Steel Company, Syracuse, N. Y. Re-renewed Oct. 21, 1953, to Crucible Steel Company of America, Pittsburgh, Pa., a corporation of New Jersey. Tool-Steel. Class 14.

93,954. CASCADEUSE. Registered Oct. 28, 1913. Atuyer, Bianchini, Ferier, Lyon, France, and New York, N. Y. Re-renewed Oct. 28, 1953, to Bianchini, Ferier, Inc., New York, N. Y., a corporation of New York. Piece Fabrics of Silk, Linen, Cotton, Wool, or Admixtures of These Fibers. Class 42.

300,284. LABORSAVER. Registered Jan. 10, 1933. Detergent Products Corporation. Renewed Jan. 10, 1953, to Tesco Chemicals, Inc., Atlanta, Ga., a corporation of Georgia. Cleaning Compound in Powdered Form, Particularly for Laundry Use and All Kinds of Domestic Cleaning. Class 52.

302,928. HUMINAL. Registered May 2, 1933. Franz Haniel & Cie. G. m. b. H. Zweigniederlassung Mannheim, Mannheim, Germany, a limited company organized under the German law. Renewed May 2, 1953. Fertilizers. Class 10.

304,047. REPRESENTATION OF HEAD OF MAN WITH "COON-CHICKEN INN" ON TEETH. Registered June 20, 1933. M. L. Graham, Salt Lake City, Utah, Seattle, Wash., and Portland, Oreg. Renewed June 20, 1953, to M. L. Graham, Seattle, Wash. A Special Kind of Fried Chicken Sandwich, Chicken Pie, Etc. Class 46.

304,048. REPRESENTATION OF MAN CARRYING CHICKEN ON TRAY WITH "COON-CHICKEN INN" ON TEETH. Registered June 20, 1933. M. L. Graham, Salt Lake City, Utah, Seattle, Wash., and Portland, Oreg. Renewed June 20, 1953, to M. L. Graham, Seattle, Wash. A Special Kind of Fried Chicken Sandwich, Chicken Pie, Etc. Class 46.

304,102. "GOLD SEAL" ETC. Registered June 20, 1933. Banner Manufacturing Co. Inc., doing business as Gold Seal Mfg. Co., New York, N. Y. Renewed June 20, 1953, to Banner Manufacturing Co. Inc., doing business as Gold Seal Mfg. Co., Brooklyn, N. Y., a corporation of New York. Anti-Freese Solution. Class 6.

304,343. "EIDERKNITS" AND DESIGN. Registered July 4, 1933. Gardiner-Warring Company, Inc., Florence, Ala. Renewed July 4, 1953, to Flagg-Utica Corporation, Utica, N. Y., a corporation of New York. Men's, Women's, and Children's Sweaters; Etc. Class 39.

304,346. "SUEDEKNITS" AND DESIGN. Registered July 4, 1933. Gardiner-Warring Company, Inc., Florence, Ala. Renewed July 4, 1953, to Flagg-Utica Corporation, Utica, N. Y., a corporation of New York. Men's and Women's Sweaters and Men's and Women's Sweat Shirts. Class 39.

305,127. MATESA. Registered Aug. 1, 1933. American Bemberg Corporation. Renewed Aug. 1, 1953, to Beaunit Mills, Inc., New York, N. Y., a corporation of New York. Thread and Yarn of Artificial Origin, More Particularly Yarn Possessing a Dull or Low Luster. Class 43.

305,155. "CILANDER" ETC. AND DESIGN. Registered Aug. 8, 1933. Aktiengesellschaft Cilander, Herisau, Switzerland, a corporation organized under the laws of Switzerland. Renewed Aug. 8, 1953. Organdy, in the Form of Piece Goods. Class 42.

305,310. PARTY. Registered Aug. 15, 1933. Stokely Brothers and Company, Louisville, Ky. Renewed Aug. 15, 1953, to Stokely-Van Camp, Inc., Indianapolis, Ind., a corporation of Indiana. Canned Vegetables—Namely, Peas. Class 46.

305,374. HEETFLO. Registered Aug. 15, 1933. Edwin L. Wiegand Company, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed Aug. 15, 1953. Electric Room or Space Heaters. Class 21.

305,662. NEPTO-LAC. Registered Aug. 22, 1933. The Lowe Brothers Company, Dayton, Ohio, a corporation of Ohio. Renewed Aug. 22, 1953. Paints of Ready Mixed Form, Varnishes, Enamels of the Paint or Varnish Type, Etc. Class 16.

305,742. SUMMERESE. Registered Aug. 22, 1933. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed Aug. 22, 1953. Fabrics Made Wholly or Partially of Cellulose Derivatives. Class 42.

306,465. ESKIMO. Registered Sept. 19, 1933. Eskimo Pie Corporation, New York and Brooklyn, N. Y. Renewed Sept. 19, 1953, to Eskimo Pie Corporation, Bloomfield, N. J., a corporation of Delaware. Ice Cream Powders and Ice Powders. Class 46.

306,491. GLADENESE. Registered Sept. 19, 1933. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed Sept. 19, 1953. Fabrics in the Piece Made Wholly or Partially of Cellulose Derivatives. Class 42.

306,769. "CAMEO" AND DESIGN LINED FOR YELLOW AND GOLD. Registered Sept. 26, 1933. M. & N. Cigar Manufacturers, Inc., Cleveland, Ohio, a corporation of Ohio. Renewed Sept. 26, 1953. Cigars. Class 17.

306,897. FILTRATOR. Registered Oct. 3, 1933. The Aluminum Cooking Utensil Company. Renewed Oct. 3, 1953, to The Aluminum Cooking Utensil Company, Inc., New Kensington, Pa., a corporation of Delaware. Base Metal Hollow Ware for Making and Serving Coffee. Class 13.

306,927. MT. HOOD. Registered Oct. 3, 1933. Apple Growers Association, Hood River, Oreg., a corporation of Oregon. Renewed Oct. 3, 1953. Canned Fruit. Class 46.

307,213. SLEEPY DECK. Registered Oct. 17, 1933. Burton-Dixie Corporation, Chicago, Ill., a corporation of Delaware. Renewed Oct. 17, 1953. Porch Beds. Class 32.

307,411. POLAROGRAPH. Registered Oct. 24, 1933. Polarograph Laboratories of America, Berkeley, Calif. Renewed Oct. 24, 1953, to E. H. Sargent & Co., Chicago, Ill., a corporation of Illinois. Electrical Analyzing Apparatus—Namely, Electrical Apparatus Adapted to Record the Presence and Quantity of Certain Substances Via Reduction and/or Adsorption of the Latter in Solution. Class 26.

307,458. CEDILLA. Registered Oct. 24, 1933. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed Oct. 24, 1953. Fabrics Made Wholly or Partially of Cellulose Derivatives. Class 42.

307,459. CREPE CELABENG. Registered Oct. 24, 1933. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed Oct. 24, 1953. Fabrics Made Wholly or Partially of Cellulose Derivatives. Class 42.

307,460. CREPE SHEREEB. Registered Oct. 24, 1933. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed Oct. 24, 1953. Fabrics Made Wholly or Partially of Cellulose Derivatives. Class 42.

307,590. REPRESENTATION OF CHEF, ETC. Registered Oct. 31, 1933. Colonial Provision Co., Inc., Boston, Mass., a corporation of Massachusetts. Renewed Oct. 31, 1953. Hams, Shoulders, Bacon, and Frankfurters. Class 46.

307,648. WOOLAFLEX. Registered Oct. 31, 1933. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed Oct. 31, 1953. Men's, Women's, and Children's Underwear. Class 39.

307,649. SPUNBRILLA. Registered Oct. 31, 1933. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed Oct. 31, 1953. Fabrics Made Wholly or Partially of Cellulose Derivatives. Class 42.

307,699. SUNSWEET. Registered Oct. 31, 1933. California Prune and Apricot Growers Association, San Jose, Calif., a corporation of California. Renewed Oct. 31, 1953. Fruit Juices Used for Food Purposes; Fruit Syrups Used in Preparation of Foods and Beverages for Food Purposes; Etc. Class 46.

307,704. "NORWOOD" AND DESIGN. Registered Oct. 31, 1933. A. Siegel & Sons Inc., New York, N. Y., a corporation of New York. Renewed Oct. 31, 1953. Cigars. Class 17.

307,855. CELWARP. Registered Nov. 7, 1933. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed Nov. 7, 1953. Fabrics in the Piece Made Wholly or Partially of Cellulose Derivatives. Class 42.

307,856. WARPCEL. Registered Nov. 7, 1933. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed Nov. 7, 1953. Fabrics in the Piece Made Wholly or Partially of Cellulose Derivatives. Class 42.

308,008. CHAISETTE. Registered Nov. 14, 1933. Burton-Dixie Corporation, Chicago, Ill., a corporation of Delaware. Renewed Nov. 14, 1953. Porch Beds and Deck Chairs. Class 32.

308,124. GOLDEN GRAIN. Registered Nov. 21, 1933. Gragnano Products, Inc., San Francisco, Calif. Renewed Nov. 21, 1953, to Golden Grain Macaroni Co., San Leandro, Calif., a corporation of California. Spaghetti, Macaroni, and Egg Noodles. Class 46.

308,139. "MACY'S M.D.". Registered Nov. 21, 1933. R. H. Macy & Co., Inc., New York, N. Y., a corporation of New York. Renewed Nov. 21, 1953. Women's Arch Support Shoes of Leather, Fabric, or Combinations Thereof. Class 39.

308,318. "MORLANT" ETC. AND DESIGN. Registered Nov. 28, 1933. Morlant (de la Marne), Societe Anonyme, Reims, Paris, France, a corporation organized under the laws of the Republic of France. Renewed Nov. 28, 1953. Sparkling Wines and Champagne Wines. Class 47.

308,484. SATIN BENGACEL. Registered Dec. 5, 1933. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed Dec. 5, 1953. Fabrics Made Wholly or Partially of Cellulose Derivatives. Class 42.

308,594. PROSPERITY. Registered Dec. 12, 1933. The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York. Renewed Dec. 12, 1953. Garment Presses, Ironing Presses, Clothes Washing Machines, Etc. Class 24.

308,617. "GOLDEN TIGER" AND DESIGN. Registered Dec. 12, 1933. Bay State Milling Company, Winona, Minn., a corporation of Minnesota. Renewed Dec. 12, 1953. Wheat Flour. Class 46.

308,644. "DHB" ETC. AND DESIGN. Registered Dec. 12, 1933. Etelberto Albuerne y Bravo, Aviles, Spain. Renewed Dec. 12, 1953. Preserved Fish. Class 46.

308,727. RIBSHEER. Registered Dec. 19, 1933. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed Dec. 19, 1953. Fabrics Made Wholly or Partially of Cellulose Derivatives. Class 42.

308,747. MIMOSA. Registered Dec. 19, 1933. Cleveland Mill and Power Company. Renewed Dec. 19, 1953, to Cleveland Mills Company, Lawndale, N. C., a corporation of North Carolina. Mercerized Crochet Cotton, Twine for Needle Work, Embroidery Thread, and Crochet Thread. Class 43.

308,760. MAKITA. Registered Dec. 19, 1933. Bianchini, Ferier, Lyon, France. Renewed Dec. 19, 1953, to Bianchini, Ferier, Inc., New York, N. Y., a corporation of New York. Piece Goods Composed of Silk. Class 42.

308,761. INFROISSVELVA. Registered Dec. 19, 1933. Bianchini, Ferier, Lyon, France. Renewed Dec. 19, 1953, to Bianchini, Ferier, Inc., New York, N. Y., a corporation of New York. Piece Goods Composed Wholly or in Part of Wool, Hair, Silk, Rayon, Cotton, Etc. Class 42.

308,764. TONAJUVE. Registered Dec. 19, 1933. Davies, Rose & Company, Limited, Boston, Mass., a corporation of Massachusetts. Renewed Dec. 19, 1953. Reconstructive Tonics in Liquid Form for Internal Use, Particularly for the Purposes of Promoting Strength and Chemical Balance in Growing Children. Class 18.

308,796. "KING" ETC. AND DESIGN. Registered Dec. 19, 1933. The John P. King Manufacturing Co., August, Ga., a corporation of Georgia. Renewed Dec. 19, 1953. Sheets and Pillow Cases. Class 42.

308,909. "THE M. W. LOCKE SHOE" ETC. AND DESIGN. Registered Dec. 26, 1933. Perth Shoe Company Limited, Perth, Ontario, Canada, assignor to Lockwedge Shoe Corporation of America, Inc. Renewed Dec. 26, 1953, to The Julian & Kokenge Co., Columbus, Ohio, a corporation of Ohio. Boots, Shoes, Slippers, and Sandals of Leather or Fabric or Combinations Thereof. Class 39.

309,000. MUNICIPAL. Registered Dec. 26, 1933. Municipal Street Sign Co., Inc., New York, N. Y. Renewed Dec. 26, 1953, to Municipal Street Sign Co., Inc., Brooklyn, N. Y., a corporation of New York. Electric Traffic Lamps and Beacons, and Visual Electric Signals and Signs, To Be Placed Upon Streets and Highways or Carried by Vehicles. Class 21.

309,685. "ANGORA-TEX" ETC. AND DESIGN. Registered Jan. 23, 1934. Cohen, Goldman & Co., Inc., New York, N. Y. Renewed Jan. 23, 1954, to House of Worsted-Tex, Inc., Baltimore, Md., and Philadelphia, Pa., a corporation of Pennsylvania. Men's, Boys', and Children's Outer Garments Consisting of Coats, Vests, Pants, Etc. Class 39.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

55,363. "A" AND DESIGN. Registered Aug. 14, 1906. Alvin Mfg. Co., New York, N. Y. Silver Tableware, Hollow Ware, and Flat Ware. Class 28. The drawing is hereby amended to appear as follows:



223,720. "LA ROSITA" AND REPRESENTATION OF GIRL. Registered Feb. 8, 1927. The Southwestern Milling Company, Inc., New York, N. Y. Wheat Flour. Class 46. Restricted under the provisions of section 18 of the Trade-Mark Act of 1946 to that area of the United States excluding the area comprising the States of Washington, Oregon, California, Arizona, Nevada, Idaho, Utah, Montana, Wyoming, Nebraska, New Mexico, North Dakota, South Dakota, Oklahoma, Texas, Colorado, Minnesota, Iowa, Missouri, Kansas, Arkansas, and Louisiana, by order of the Commissioner dated Sept. 29, 1953 following decision on Concurrent Use Proceeding No. 109, *The Colorado Milling & Elevator Co.* v. *The Southwestern Milling Company, Inc.*

338,986. ALDARSONE. Registered Sept. 22, 1936. Abbott Laboratories, North Chicago, Ill. Bactericides. Class 6 (now Class 18). Corrected as follows: In the statement, line 7, "bactericides" should be *medicinal for treatment of trichomonas infections, and for amoebic dysentery.*

376,302. BEAUTIFUL LADY. Registered Mar. 19, 1940. Eastern Outfitting Co. of Portland, Oregon, Portland, Oreg. Women's, Misses', and Girls' Hosiery, Slips, Etc. Class 39. Restricted under the provisions of section 18 of the Trade-Mark Act of 1946 to that area of the United States excluding the area comprising the States of Illinois and Indiana, by order of the Commissioner dated Sept. 22, 1953 following decision on Concurrent Use Proceeding No. 116, *Goldblatt Bros. Inc.* v. *Eastern Outfitting Co.*

579,240. AMERICA. Registered Sept. 1, 1953. Escondido Lemon Association, Escondido, Calif. Fresh Citrus Fruit. Class 46. Corrected as follows: Column 2, line 28, in the signature to the statement, for "ESCONDIDO ORANGE ASSOCIATION" read *ESCONDIDO LEMON ASSOCIATION.*

574,241. LIBERTY. Registered Sept. 1, 1953. Escondido Orange Association, Escondido, Calif. Fresh Citrus Fruits. Class 46. Corrected as follows: Column 2, line 24, in the signature to the statement, for "ESCONDIDO LEMON ASSOCIATION" read *ESCONDIDO ORANGE ASSOCIATION.*

579,242. FREEDOM. Registered Sept. 1, 1953. Escondido Orange Association, Escondido, Calif. Fresh Citrus Fruits. Class 46. Corrected as follows: Column 2, line 24, in the signature to the statement, for "ESCONDIDO LEMON ASSOCIATION" read *ESCONDIDO ORANGE ASSOCIATION.*

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 196,268. Registered Mar. 17, 1925. (Classified in Class 52.) The Flox Co., Minneapolis, Minn. Republished by The Flox Company, Inc., Minneapolis, Minn., a corporation of Minnesota.
See this number in Class 52 for goods and mark.
Claims use since on or about Nov. 5, 1923.

Reg. No. 286,829. Registered Sept. 8, 1931. (Classified in Class 52.) Rex Products & Manufacturing Company, Detroit, Mich. Republished by Detrex Corporation, Detroit, Mich., a corporation of Michigan.
See this number in Class 52 for goods and mark.
Claims use since Apr. 3, 1931.

Reg. No. 307,766. Registered Oct. 31, 1933. Geigy Company, Inc., New York, N. Y., a corporation of New York. Republished by registrant.



For Dyestuffs, Lakes and Chemical Products Suitable for Dyeing Purposes.
Claims use since Aug. 19, 1928.

Reg. No. 400,101. Registered Feb. 16, 1943. Detroit Rex Products Company, Detroit, Mich. Republished by Detrex Corporation, Detroit, Mich., a corporation of Michigan.

TRIAD E

For Solvent Material Used To Extract Oil From Vegetable Matter.
Claims use since Aug. 3, 1942.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Reg. No. 331,706. Registered Jan. 21, 1936. The Kilgore Manufacturing Company, Westerville, Ohio. Republished by Kilgore, Inc., Westerville, Ohio, a corporation of Ohio.

BIG-SHOT

For Paper Caps in Rolls for Toy Pistols.
Claims use since Aug. 15, 1935.

Reg. No. 332,406. Registered Feb. 11, 1936. The Kilgore Manufacturing Company, Westerville, Ohio. Republished by Kilgore, Inc., Westerville, Ohio, a corporation of Ohio.

BIG-BOY

For Paper Caps in Rolls for Toy Pistols.
Claims use since Oct. 15, 1935.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 303,460. Registered May 23, 1933. Seydel Chemical Company, Nitro, W. Va., and Jersey City, N. J. Republished by Seydel Chemical Company, Jersey City, N. J., a corporation of New Jersey.

AMINOCAINE

For Medicinal Compound Having Anesthetic and Antiseptic Qualities.
Claims use since Jan. 1, 1931.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 89,323. Registered Dec. 10, 1912. The American Well Works, Aurora, Ill., a corporation of Illinois. Republished by registrant.

AMERICAN

For Deep-Well Pumps, Turbine Deep-Well Pumps, Centrifugal Pumps, and Mine-Pumps.
Claims use since about Jan. 1, 1890.

Reg. No. 336,256. Registered June 30, 1936. Detroit Rex Products Company, Detroit, Mich. Republished by Detrex Corporation, Detroit, Mich., a corporation of Michigan.

DETREX

For Machines for Cleaning and Degreasing Metal Parts and the Like by the Use of Grease Solvents.
Claims use since Dec. 20, 1935.

Reg. No. 385,145. Registered Feb. 18, 1941. Detroit Rex Products Company, Detroit, Mich. Republished by Detrex Corporation, Detroit, Mich., a corporation of Michigan.

SYNTH-O-SAVER

The word "Saver" is disclaimed apart from the mark as shown.

For Machines Used for Removing and Recovering Solvents From Clothes and Fabrics and for Drying and Aerating Clothes and Fabrics.

Claims use since Aug. 1, 1940.

Reg. No. 385,146. Registered Feb. 18, 1941. Detroit Rex Products Company, Detroit, Mich. Republished by Detrex Corporation, Detroit, Mich., a corporation of Michigan.

DETREX
DRY CLEANER

The words "Dry Cleaner" are disclaimed apart from the mark as shown.

For Machines Used for Cleaning Clothes and Fabrics by the Employment of Solvents as a Cleaning Medium.

Claims use since Apr. 6, 1940.

CLASS 32

FURNITURE AND UPHOLSTERY

Reg. No. 414,445. Registered June 12, 1945. Wycombe, Meyer, Inc., New York, N. Y. Republished by B. Altman & Co., New York, N. Y., a corporation of New York.

Cosmopolitan Furniture
for Town & Country

The words "Furniture" and "for Town and Country" are disclaimed apart from the mark as shown.

For Living Room, Dining Room, and Bedroom Furniture—Namely, Beds, Dressers, Dressing Tables, Vanities, Vanity Benches, Bureaus, Night Tables, Chairs, Dining Tables, Serving Tables, Buffets, China Closets, Upholstered Living Room, Boudoir, and Occasional Chairs, and Upholstered Sofas, Divans, and Davenports.

Claims use since Mar. 15, 1944.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Reg. No. 304,066. Registered June 20, 1933. Robert S. Waters and William G. Heiner, receivers for The National Radiator Corporation, Johnstown, Pa. Republished by The National Radiator Company, Johnstown, Pa., a corporation of Maryland.



For Heat Exchange Apparatus in the Form of Hollow Cast Metal Sections Adapted To Be Connected Together To Form Units.

Claims use since Sept. 16, 1932.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Reg. No. 306,247. Registered Sept. 12, 1933. Gillette Rubber Company, Eau Claire, Wis. Republished by United States Rubber Company, New York, N. Y., a corporation of New Jersey.

ENSIGN

For Bicycle Tires and Tubes.

Claims use since Apr. 18, 1933.

CLASS 38

PRINTS AND PUBLICATIONS

Reg. No. 301,205. Registered Feb. 21, 1933. Good Humor Corporation of America, Cleveland, Ohio. Republished by Good Humor Corporation, Brooklyn, N. Y., a corporation of New York.

RUMORS

For Periodicals.

Claims use since Apr. 15, 1932.

Reg. No. 322,882. Registered Mar. 26, 1935. The Washington Post Publishing Company, Washington, D. C., assignor to Eugene Meyer, Seven Springs Farm, Mount Kisco, N. Y. Republished by The Washington Post Company, Washington, D. C., a corporation of Delaware.

The Federal Diary

For Article Appearing Daily and Sunday in Its Newspaper.

Claims use since Nov. 29, 1932.

CLASS 39

CLOTHING

Reg. No. 233,009. Registered Sept. 20, 1927. United Novelty Shoe Company, Indianapolis, Ind. Republished by Craddock-Terry Shoe Corporation, Lynchburg, Va., a corporation of Virginia.

Fashion Craft

For Shoes Made of Leather.

Claims use since Feb. 21, 1927.

Reg. No. 307,820. Registered Nov. 7, 1933. Harzfeld's, Inc., Kansas City, Mo., a corporation of Missouri. Republished by registrant.

PEDI-KINS

For Children's Shoes Made of Leather, Fabric, and Combinations of Leather and Fabric.

Claims use since on or about Mar. 1, 1933.

Reg. No. 334,082. Registered Apr. 21, 1936. Stone-Tarlow Co., Inc., Brockton, Mass., a corporation of Massachusetts. Republished by registrant.

Hand Lasted
by
Fluviano Di Felco

The words "Hand-Lasted by" are disclaimed apart from the mark as shown.

For Leather Shoes.

Claims use since on or about Jan. 15, 1935.

Reg. No. 340,722. Registered Nov. 17, 1936. Siegel Bros. Kiki Maid Koats Inc., New York, N. Y. Republished by Leeds Ltd. Coats, Inc., New York, N. Y., a corporation of New York.

ZAHDA

For Girls', Juniors', Misses', Little Women's, and Ladies' Suits and Coats.

Claims use since June 1, 1936.

Reg. No. 392,767. Registered Jan. 13, 1942. Connolly Shoe Co., Stillwater, Minn., a corporation of Minnesota. Republished by registrant.

AMPLIFIT
STYLED BY CONNOLLY
Fits the Natural Contour of your Foot

The phases "Styled by Connolly" and "Fits the Natural Contour of Your Foot" are disclaimed apart from the mark as shown.

For Men's Leather Shoes.

Claims use since May 9, 1941.

Reg. No. 393,113. Registered Jan. 27, 1942. Morris W. Haft & Bros., Inc., New York, N. Y. Republished by The House of Swansdown, Inc., New York, N. Y., a corporation of New York.

Year Round
Rambler

The words "Year Round" are disclaimed apart from the mark as shown.

For Women's and Misses' Suits and Coats.

Claims use since Dec. 29, 1926.

Reg. No. 400,460. Registered Mar. 9, 1943. Morris W. Haft & Brothers, New York, N. Y. Republished by The House of Swansdown, Inc., New York, N. Y., a corporation of New York.

Laurentia

For Ladies' and Misses' Coats, Suits, Jackets, Skirts, and Coat and Suit Ensembles.

Claims use since May 24, 1938.

Reg. No. 400,907. Registered Apr. 6, 1943. Morris W. Haft & Brothers, New York, N. Y. Republished by The House of Swansdown, Inc., New York, N. Y., a corporation of New York.

Swandwra

For Ladies' and Misses' Coats, Suits, Jackets, Skirts, and Coat and Suit Ensembles.

Claims use since May 24, 1938.

Reg. No. 403,935. Registered Oct. 26, 1943. Morris W. Haft & Brothers, New York, N. Y. Republished by The House of Swansdown, Inc., New York, N. Y., a corporation of New York.

Velama

That portion of the mark consisting of the syllables "lama" is not intended to indicate that any llama hair is contained in the garments.

For Ladies' and Misses' Coats, Suits, Jackets, Skirts, and Coat and Suit Ensembles.

Claims use since May 24, 1938.

Reg. No. 406,520. Registered Apr. 11, 1944. Morris W. Haft & Brothers, New York, N. Y. Republished by The House of Swansdown, Inc., New York, N. Y., a corporation of New York.

SWAN GLOW
DE LUXE
by Swansdown

The words "By Swansdown" and "De Luxe" are disclaimed apart from the mark as shown.

For Ladies' and Misses' Coats, Suits, Jackets, Skirts, and Coat and Suit Ensembles.

Claims use since May 24, 1938.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 347,280. Registered June 22, 1937. Siegel Bros. Kiki Maid Koats, Inc., New York, N. Y. Republished by Leeds Ltd. Coats, Inc., New York, N. Y., a corporation of New York.

ROYAL CAMELS HAIR

The words "Camels Hair" are disclaimed apart from the mark as shown.

For Piece Goods Made of Wool Having a Predominant Camel's Hair Content.

Claims use since July 1, 1936.

Reg. No. 350,271. Registered Sept. 21, 1937. Morris W. Haft & Brothers, Inc., New York, N. Y. Republished by The House of Swansdown, Inc., New York, N. Y., a corporation of New York.

Swansdown

The word "Swansdown" is disclaimed apart from the mark as shown.

For Woolen Piece Goods.

Claims use since May 1922.

Reg. No. 408,639. Registered Aug. 22, 1944. Siegel Bros. Garment Corp., New York, N. Y. Republished by Leeds Ltd. Coats, Inc., New York, N. Y., a corporation of New York.

ZAHDA

For Woolen and Worsted Fabrics in the Piece.

Claims use since June 1, 1936.

CLASS 43

THREAD AND YARN

Reg. No. 316,556. Registered Aug. 28, 1934. Threads, Incorporated, Gastonia and Arkray Village, near Gastonia, N. C., a corporation of North Carolina. Republished by registrant, present address Gastonia, N. C.

STONEWALL

For Sewing Thread.

Claims use since about Oct. 1, 1931.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 211,544. Registered Apr. 13, 1926. Carolina Baking Company, Charlotte, N. C. Republished by Columbia Baking Company, Atlanta, Ga., a corporation of Delaware.



For Bread and Cake.

Claims use since on or about Apr. 5, 1925.

Reg. No. 213,360. Registered May 25, 1926. Carolina Baking Company, Charlotte, N. C. Republished by Columbia Baking Company, Atlanta, Ga., a corporation of Delaware.



The word "Cake" is disclaimed apart from the mark as shown.

For Cake.

Claims use since on or about Apr. 5, 1925.

Reg. No. 216,875. Registered Aug. 24, 1926. Carolina Baking Company, Charlotte, N. C. Republished by Columbia Baking Company, Atlanta, Ga., a corporation of Delaware.

Southern Bread

Made to suit the Southern Housewife

The word "Bread" is disclaimed apart from the mark as shown.

For Bread.

Claims use since on or about June 6, 1925.

Reg. No. 332,948. Registered Mar. 3, 1936. Peter A. Stolich, Inc., Salinas, Calif. Republished by Peter A. Stolich, Salinas, Calif.



The representation of the lettuce is disclaimed apart from the mark as shown.

For Fresh Lettuce.

Claims use since Aug. 22, 1934.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 196,268. Registered Mar. 17, 1925. The Flox Co., Minneapolis, Minn. Republished by The Flox Company, Inc., Minneapolis, Minn., a corporation of Minnesota.

FLOX

For Boiler Cleaning Compounds and Water Softeners.

Claims use since on or about Nov. 5, 1923.

Reg. No. 286,829. Registered Sept. 8, 1931. Rex Products & Manufacturing Company, Detroit, Mich. Republished by Detrex Corporation, Detroit, Mich., a corporation of Michigan.

TRIAD

For Soap Powders With Water Softening Properties.

Claims use since Apr. 3, 1931.

Reg. No. 292,020. Registered Mar. 1, 1932. Rex Products & Manufacturing Company, Detroit, Mich. Republished by Detrex Corporation, Detroit, Mich., a corporation of Michigan.

PERM-A-CLOR

For Cleaning Solvents for Removing Grease.

Claims use since Sept. 30, 1931.

Reg. No. 317,680. Registered Oct. 2, 1934. Rex Products & Manufacturing Company, Detroit, Mich. Republished by Detrex Corporation, Detroit, Mich., a corporation of Michigan.

TRIAD

For Grease Detergent and Solvent Cleaning Compounds for Removing Grease.

Claims use since Apr. 3, 1931.

Reg. No. 373,027. Registered Nov. 21, 1939. Detroit Rex Products Company, Detroit, Mich. Republished by Detrex Corporation, Detroit, Mich., a corporation of Michigan.

DREX-KLEEN

The word "Kleen" is disclaimed apart from the mark as shown.

For Solvent for Cleaning Clothes and Fabrics and for Removing Spots Therefrom.

Claims use since May 29, 1939.

Reg. No. 373,028. Registered Nov. 21, 1939. Detroit Rex Products Company, Detroit, Mich. Republished by Detrex Corporation, Detroit, Mich., a corporation of Michigan.

PERM-A-KLEEN

The word "Kleen" is disclaimed apart from the mark as shown.

For Solvent for Cleaning Clothes and Fabrics and for Removing Spots Therefrom and for a Solvent for Degreasing Metal Parts and the Like.

Claims use since May 26, 1939.

REISSUES

OCTOBER 27, 1953

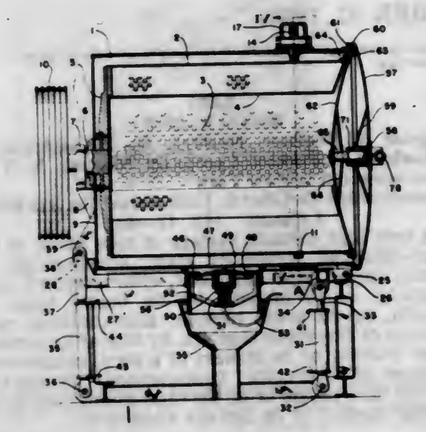
Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

23,727
SWINGABLE DOOR FOR TUMBLER TYPE CLOTHES WASHING MACHINES

Herman Miller, Detroit, Mich., assignor to Miller Laundry Machinery Co., Detroit, Mich., a corporation of Michigan

Original No. 2,639,601, dated May 26, 1953, Serial No. 133,091, December 15, 1949. Application for reissue July 1, 1953, Serial No. 365,571

3 Claims. (Cl. 68—139)



1. [A washing machine] *Laundry handling equipment* comprising a horizontally disposed cylindrical tank having an open end, a perforated cylindrical container rotatable within the cylindrical tank and having an open end the diameter of which is substantially equal to the diameter of the perforated container, means for rotating the cylindrical container, a composite door forming a separate closure for the open end of the cylindrical [door] *tank* and the cylindrical container, a horizontal bar attached to the center of the door, arms engaging opposite ends of the bar and pivotally attached to the sides of said tank, and hydraulically operable means for swinging the arms to open the composite door and elevate the door above the openings of said cylinder and tank.

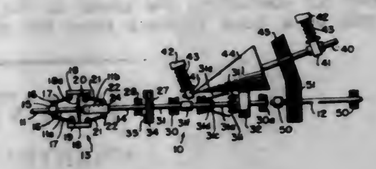
23,728
AUTOMATIC VARIABLE DRIVE

Max Teigman, New York, N. Y.

Original No. 2,526,435, dated October 17, 1950, Serial No. 647,793, February 15, 1946. Application for reissue August 18, 1951, Serial No. 242,562

14 Claims. (Cl. 74—191)

1. In combination, a non-slidable, rotary shaft, a rotary and slidable shaft, a governor connecting said shafts, a second rotary and slidable shaft, friction means to interconnect said rotary and slidable shafts, means to limit movement of said second rotary and slidable shaft in one direction,



a friction wheel on the second rotary and slidable shaft, a rotary friction cone contacting said friction wheel, an output shaft, and gearing connecting said output shaft with said friction cone.

23,729
HEAVY-DUTY FIBER CONTAINER

Samuel P. Belsinger, Atlanta, Ga., assignor to Belsinger, Inc., Atlanta, Ga., a corporation of Georgia

Original No. 2,578,777, dated December 18, 1951, Serial No. 147,008, March 1, 1950. Application for reissue July 29, 1953, Serial No. 371,196

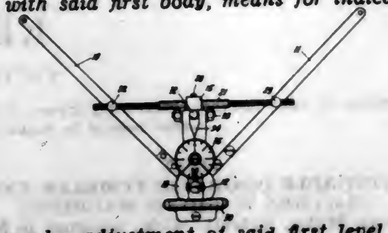
3 Claims. (Cl. 229—16)



1. A foldable heavy duty container formed from two substantially rectangular blanks, said blanks being scored and slit so as to provide when assembled for use a container having a double bottom wall, double front and rear side walls, double end walls and a double partition wall integral with thee outer members of the rear side wall, *said double partition wall extending through a slot in the inner member of the rear side wall* and having flaps extending through a slot in the inner member of the front side wall, said flaps being folded so as to lie between the inner and outer members of said front wall, said outer member of the front wall being formed of half sections, each of which is provided with a flap adapted to extend through the slot in the inner member of the front wall and between the members of the partition wall, said rear wall having a cover formed integral therewith and adapted to be folded down into contact with the end walls and the partition for closing the container.

23,730
CAMBER AND CASTER GAUGE
Le Roy V. Jacobsen, Durant, Iowa, assignor to Bee-Line Company, Davenport, Iowa, a copartnership
Original No. 2,569,416, dated September 25, 1951, Serial No. 62,436, November 29, 1948. Application for reissue January 14, 1952, Serial No. 266,400
9 Claims. (Cl. 33—203.18)

5. A camber and caster gauge for the dirigible wheels of a vehicle, comprising a first body and a pair of arms, pivot means individually connecting the first body and the pair of arms about a single axis, wheel-contacting means on the side of the arms and at the axis of pivotal connection, extending the same distance from the plane of the arms for contacting the wheel so that the arms will be a fixed distance from the wheel, the contacting means being approximately at the ends of the arms, a second body carrying a first level, a pivot pivotally connecting said second body with said first body, means for indicating



the angular adjustment of said first level with respect to said first body, and a second level for indicating whether said pivot of said first and second bodies is horizontal.

PLANT PATENTS

GRANTED OCTOBER 27, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,224
SANSEVIERIA PLANT
Sylvan Frank Hahn, Pittsburgh, Pa.
Application August 15, 1952, Serial No. 304,663
1 Claim. (Cl. 47—59)

A new and distinct variety of Sansevieria plant of the spiral or rosette type, substantially as shown and described, characterized particularly by its bands of golden yellow color in the leaf and its habit of faithfully reproducing this color pattern only when propagated by using suckers.

1,225
ROSE PLANT
Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York
Application October 9, 1952, Serial No. 313,997
1 Claim. (Cl. 47—61)

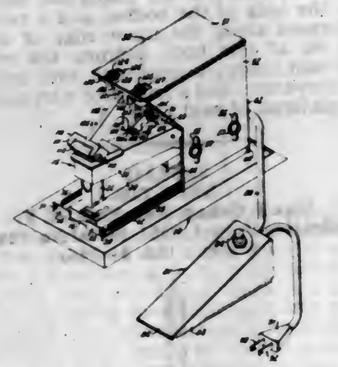
A new and distinct variety of rose plant of the large-flowered polyantha class, substantially as herein shown and described, characterized particularly as to novelty by its bushy habit of growth, by its great number and constant production of flowering clusters, by the white general color tonality of its flowers of a form comparable to those of "Garnette" (unpatented), by the relatively thin petals of its flowers, and by the long-lasting quality of its flowers when cut.

PATENTS

GRANTED OCTOBER 27, 1953

GENERAL AND MECHANICAL

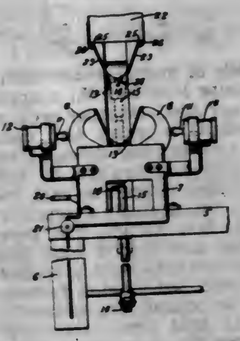
2,656,537
ELECTRICALLY OPERABLE STAPLER ACTUATOR
John J. Geel, Charlotte, N. C., assignor to Frances E. Shreve, Charlotte, N. C.
Application October 11, 1950, Serial No. 189,535
9 Claims. (Cl. 1—3)



1. An improved electrically operable stapler actuator adapted to receive a stapler having a base portion with an anvil thereon and a hammer actuating member, said improved actuator comprising a base portion, means on said base portion for holding said stapler, a housing mounted on said base portion and extending upwardly therefrom and partially over said stapler on said base, a solenoid coil secured to said housing, a solenoid plunger within said solenoid coil, a double-arm bell crank pivotally secured at the juncture of its two arms to the upper portion of said housing and depending therefrom, a link connecting said solenoid plunger with one arm of said bell crank, the other arm of said bell crank being in engagement with the hammer actuating member of said stapler, switch means for completing an electrical circuit to said solenoid to move said solenoid plunger and to cause movement of said bell crank to thus move the hammer actuating member of the stapler downwardly to actuate said stapler.

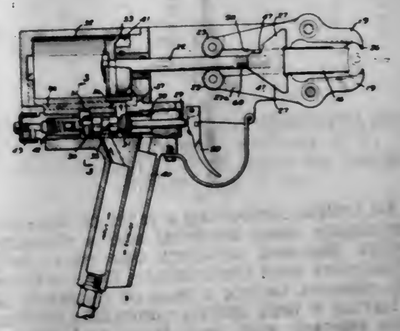
2,656,538
PLANT TYING MACHINE
William N. Aleshin, South Windsor, Conn.
Application May 11, 1949, Serial No. 92,627
2 Claims. (Cl. 1—187)

1. A tying machine comprising a pair of spaced pivoted levers, a bar slidable between said levers, an anvil carried by said bar to a position beyond said levers, for receiving a tying clip, and to a retracted position wherein the said anvil will support the tying clip between said levers to be bent thereby, abutment means acting against said bar for supporting the anvil in position during a



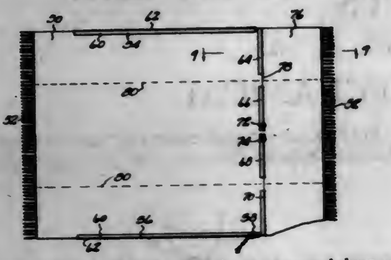
bending operation upon a said tying clip, and means for operating said levers.

2,656,539
HOG RING CLINCHING TOOL
William D. Chilton, Royal Oak, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 29, 1952, Serial No. 328,468
9 Claims. (Cl. 1—187)



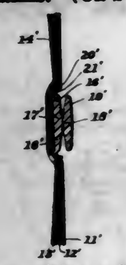
1. In a hog ring clinching tool the combination of a pair of clinching jaws, means for arresting the clinching jaws in a position of maximum opening, each of the jaws having a guiding groove, the said grooves converging forward when the jaws are in position of maximum opening, and the convergence for part of the distance that they lie opposite each other producing a spacing of the grooves less than the initial length of the rings, and a positive pusher for pushing the ring into that part of said converging grooves of the jaws wherein the spacing of the grooves is less than the initial length of the rings, to thereby give the rings a preliminary closing.

2,656,540
ROBE WITH FASTENERS
Verne L. Stephenson, Goshen, Ind.
Application January 15, 1951, Serial No. 205,979
3 Claims. (Cl. 2—69.5)



1. An article of manufacture comprising a robe having opposite longitudinal margins, a pair of complementary slide fastener sections secured to said longitudinal margins and each having an end portion terminating spaced from one end of said robe, and a plurality of complementary fastener sections secured to said robe to extend end to end in transversely extending relation adjacent to the last named end portions of said fastener strips and spaced from the end of said robe whereby said robe may be folded transversely adjacent to said last named fastener strips and thence may be folded longitudinally to form an enclosure with said complementary longitudinal and transverse fastener sections in cooperating relation.

2,656,541
FLEXIBLE THERMOPLASTIC FASTENER
Richard W. Beaver and Charles P. Sweeny, Pulaski, Va., assignors to Electro-Plastic Fabrics, Incorporated, Pulaski, Va., a corporation of Virginia
Application March 15, 1951, Serial No. 215,792
10 Claims. (Cl. 2—96)



1. An article comprising a layer of non-woven, thermoplastic sheet material and a plurality of fasteners disposed adjacent one edge thereof, said fasteners each comprising a flexible thermoplastic element having a base of relatively large area having a thin annular marginal portion in surface contact with said layer and integrally bonded thereto under heat and pressure, a substantially circular, central portion of the base being unsecured to said layer, and a flexible head of substantial size made of the same material as and integral with the base and spaced therefrom.

2,656,542
ROLLED COLLAR STAY
Ernest Heuman, West End, N. J.
Application November 30, 1951, Serial No. 259,265
2 Claims. (Cl. 2—132)

1. Stays for the wings of a soft collar, comprising a light weight body for each of the wings, said bodies being shaped to conform to the shape of the wings and mounted thereon to be hidden from view when the collar is worn, said bodies being preset to a desired curvature from top to bottom and mounted on the wings with their convexed sides faced outward causing the wings to assume a rolled position retaining the tip ends of the wings from curling forward and upward, said bodies being trianglar in formation to have



one leg for extension along the dependent edges of the wings and one leg for location in the junctions of the wings with the neck-band of the collar, said bodies having triangular cutouts reducing the bulk of the bodies, and a reinforcing bead formed along the inner edge of the first-named leg of said body defining the respective side of said cutout to maintain said body in its preset curvature, and a length of wire molded into the material of said bead.

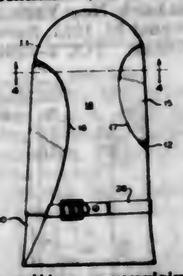
2,656,543
NECKTIE
Max J. Cohan, New York, N. Y.
Application June 4, 1951, Serial No. 229,793
1 Claim. (Cl. 2—146)



A necktie of the four-in-hand type comprising an elongated body formed of fabric and having front and rear plies, said body having top and bottom end sections and a narrow intermediate section of appreciably less width than the end-sections, the top section being of greater width than the bottom section, said end sections having opposite side edges following elongated curves for a portion of their length and merging into side edges of the intermediate section, a flat main liner formed of the fabric and extending longitudinally of said body between the front and rear plies thereof and having a portion passing through the intermediate section and along top and bottom sections of the body throughout the major portion of the length thereof and having side edges spaced inwardly a substantial distance from and in parallel relation to the curved side edges of the body and a one piece auxiliary liner formed of fabric and extending flat against and secured to the wide end portion of the main liner throughout a major portion of

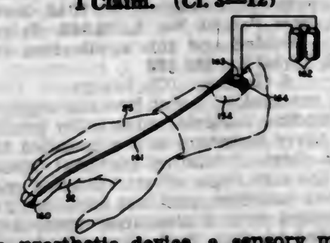
said length thereof, the auxiliary liner having side edges spaced inwardly a substantial distance from and in parallel relation to the curved side edges of said main liner whereby said liners provide progressively increasing support for said top end section from the side edges thereof toward the longitudinal center line to permit the formation of a relatively wide V-knot having a smooth curved surface by tying a conventional four-in-hand knot.

2,656,544
MITTEN
John E. Langford, Littleton, N. H.
Application October 24, 1950, Serial No. 191,789
4 Claims. (Cl. 2—158)



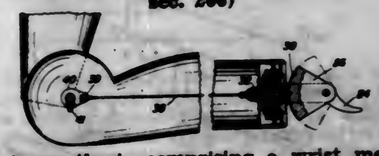
1. A ski tow mitten comprising a palm piece having intermediate side portions folded back and a flap partially cut out to provide a thumb aperture, a reinforcing palm piece joined to the palm piece and extending transversely across the palm including its folded back side portions, an elongated back piece having intermediate cut-out portions conforming to the contour of the side portions and joined thereto at the tip and the sides to provide therewith an encompassing hand covering, and a pair of identical thumb pieces forming a thumb sewed together along their back seam, the tip and approximately half way of the inside edges, the thumb pieces being slit just beyond the sewed together portion of the inside edges, the remainder of the inside edges of the thumb pieces and the bases thereof being separated and sewed to the palm pieces around the thumb aperture and substantially spaced therefrom, the flap extending over the front of the thumb and joined thereto.

2,656,545
PROSTHETIC DEVICE SENSORY ATTACHMENT
John E. Conzelman, Jr., Sierra Madre, Herbert B. Ellis, La Canada, and Clayton W. O'Brien, Los Angeles, Calif.
Original application June 28, 1948, Serial No. 35,634, now Patent No. 2,582,234, dated January 15, 1952. Divided and this application January 10, 1952, Serial No. 265,872
1 Claim. (Cl. 3—12)
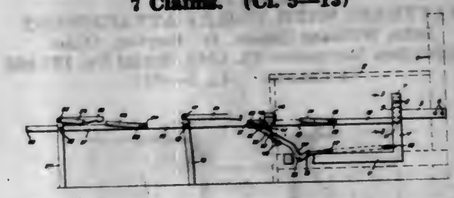


In a prosthetic device, a sensory mechanism for indicating to the wearer by tactile sensation pressure exerted extraneously upon a portion of said device, and comprising an electric switch of spring-opened type secured to said portion of said prosthetic device so as to be closable by pressure of said portion upon an extraneous object, an electric vibrator secured to the skin surface of the wearer, and electric circuit connections between said switch and said vibrator, including connections to a source of electric power.

2,656,546
MECHANICAL FLEXION AND EXTENSION WRIST
George B. Robinson, Napa, Calif.
Application July 2, 1952, Serial No. 296,980
4 Claims. (Cl. 3—12.4)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A prosthesis comprising a wrist member; a hand; means for pivotally mounting said hand relative to said wrist; means for locating said hand in a plurality of angularly displaced positions relative to said wrist, said locating means including a longitudinally displaceable locking pin concentrically positioned to extend through said wrist, and spring means for biasing said pin into engagement with said hand; and means for disengaging said pin from said hand in opposition to said spring means comprising an eccentric plate fixed to the upper arm of the prosthesis, concentric with the axis of the elbow, a tension member connected at its one end to said pin and at its other end to a point of said eccentric plate located eccentrically of the elbow axis, the length of said tension element being so related to the eccentricity of said point that said pin will be disengaged from said hand at at least one location when the forearm of said prosthesis rotates from a position of full flexion to a position of full extension.

2,656,547
FOLDING BED AND SEAT COMBINATION
Abraham Winikoff, New York, N. Y.
Application May 6, 1950, Serial No. 160,483
7 Claims. (Cl. 5—13)



2. In a folding bed structure having a frame, a first bed section pivoted to said frame, a second section pivoted to said first section, a third section pivoted to said second section and a fourth section pivoted to said third section, a linkage system having one end pivoted to said frame and the other end pivoted to said second section, the improvement in which said linkage comprises a pair of links, one link being pivoted at one end to said frame, a pin on said second section, said first link having a slot at the other end through which said pin extends, the second link being pivoted at one end to said second section and

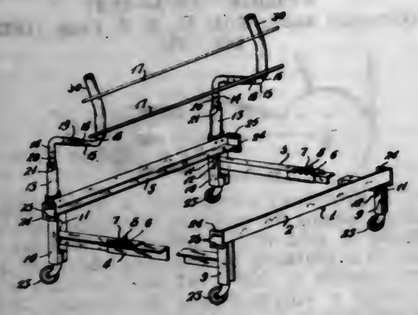
having a slot at the other end thereof, and a pin on said first link extending through the slot in said second link, the length of said slots being sufficient so that said pins contact one end of said slots when said bed is extended and contact the opposite end thereof when said bed is folded.

2,656,548

DIVAN WITH SHIFTABLE BACK

Nathan E. Blanke and Hillard J. Sands, Cleveland, Ohio, assignors to The Harvard Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application November 3, 1948, Serial No. 58,032
1 Claim. (Cl. 5—59)



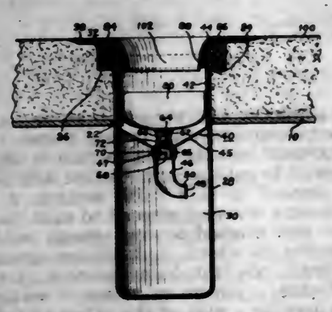
A divan comprising frame means including a pair of substantially vertically extending sections, a support bracket pivotally carried by each of said sections and having a vertically extending section and an overhanging end section, back frame means secured to and extending between said overhanging end sections, said overhanging end sections being telescopically adjustable to vary the amount of overhang of said bracket end sections, said bracket vertical sections having a plurality of spaced apertures therein, pin means extending through a selected one of said first mentioned apertures and engaging said sections to retain said brackets at adjusted vertical heights, said first mentioned sections being notched at their upper ends to engage said pin means in any of a plurality of relative pivotal positions of said brackets with relation to said sections and lock said brackets against pivotal movement.

2,656,549

MATTRESS WITH TOILET ATTACHMENT

John William Osbon, Jr., Dayton, Ohio

Application November 17, 1949, Serial No. 127,968
11 Claims. (Cl. 5—91)



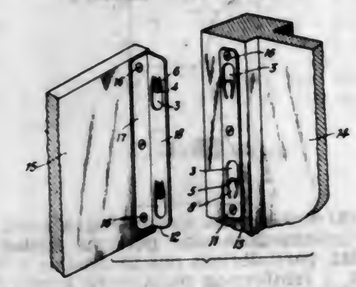
2. In an invalid bed, the combination including a mattress provided with an aperture subtended by an annular shoulder positioned below the top of the mattress, a receptacle having a radially disposed annular flange, said receptacle being positioned in said aperture with the flange resting upon the shoulder, a vessel telescopically mounted within said receptacle, said vessel projecting above the annular flange of the receptacle and terminating below the top surface of the mattress, and a strainer assembly mounted in the top of the vessel, said strainer assembly permitting liquids to pass therethrough into the vessel but retaining solid matter within the strainer assembly.

2,656,550

CONNECTING DEVICE

Morris Loeb, New York, N. Y.

Application August 21, 1951, Serial No. 242,832
1 Claim. (Cl. 5—295)



A connecting device comprising a pair of flat members each having an opening and a lug joined onto each member at one end of said opening therein, said lugs extending along one face of said members and disposed out of the planes thereof, each lug having its side edges inclined to the long axis of the member bearing it and converging towards the other end of said opening therein, each member having a depressed seat adjacent the inner end of the lug thereof, said seats having sides which are inclined to the bottoms of the seats and side edges inclined at the same angle as the sides of the lugs to the long axis of the members, and converging in a direction away from said lugs, so that when said members are superposed face to face with the lugs on adjacent faces, and the lug on one member registering with the opening in the other, longitudinal movement of said members brings the lugs of each member into wedging engagement with the sides of said seat of the other member.

2,656,551

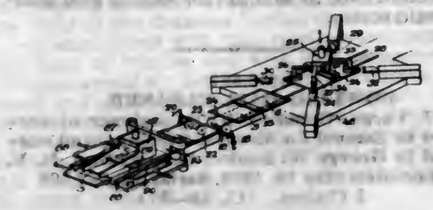
CASEMAKER

Peter Bunch, Chicago, Peter Mittomme, Cicero, and Russell Jennings, Chicago, Ill., assignors to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts

Original application October 10, 1946, Serial No. 702,390, now Patent No. 2,596,068, dated May 6, 1952. Divided and this application October 10, 1951, Serial No. 250,678
6 Claims. (Cl. 11—2)

1. In a casemaker, a flat bed for supporting a sheet of binding material, means for positioning a pair of cover members and a rounded binding back on a sheet of binding material, means for adhering the side edges of said binding material to said cover members, said last mentioned means being provided with a clearance space adjacent said rounded binding back to prevent said last mentioned means from contacting the portions of

binding material adjacent said rounded binding back, and separate presser means for adhering the portions of said binding material adjacent



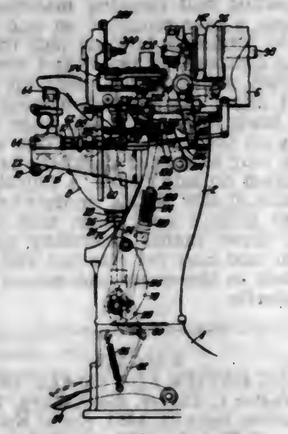
said rounded binding back to said rounded binding back after said side edges of said binding material have been adhered to said cover members.

2,656,552

LASTING MACHINE

Ernest L. Butler, Lynn, and Otis M. Holmes, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application May 22, 1951, Serial No. 227,708
10 Claims. (Cl. 12—12.5)



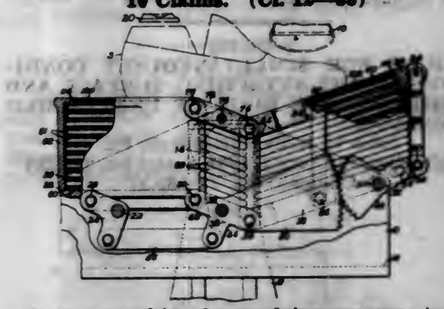
1. In a lasting machine, a support for a shoe having an insole provided with a welt-attaching lip extending around its heel end, a holddown arranged to engage the inner face of said lip at the heel end of the insole and thereby to position the shoe lengthwise while supporting the lip against inwardly directed pressure of the margin of the upper against it in the lasting operation, wipers for wiping the marginal portion of the heel end of the upper inwardly against said lip, said wipers being mounted for closing movements widthwise of the shoe about a common axis, a member mounted for movement lengthwise of the shoe to move said wipers bodily in that direction thus to act on the upper at the extreme end of the shoe, the limit of such bodily movement of the wipers being determined by their engagement with the margin of the upper, and connections between said member and the wipers responsive to the resistance of the margin of the upper to such bodily movement of the wipers for closing them widthwise of the shoe to wipe the upper against said lip along the sides of the heel-end portion of the shoe, said connections comprising links extending from said member to the wipers in convergent directions toward the heel end of the shoe.

2,656,553

PAD BOX

Charles K. Woodman, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application June 25, 1949, Serial No. 101,338
10 Claims. (Cl. 12—38)



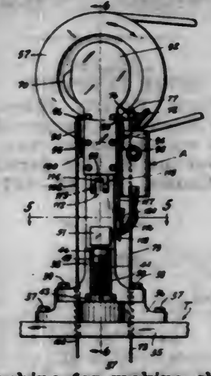
6. In a machine for applying pressure to shoe bottoms, a pad box, the bottom of which is formed of pivotally connected members for supporting the heel, shank and forepart portions of a pad, side walls cooperating with said members to confine a pad supported by said members, the side walls of the shank and forepart portions being formed of a plurality of superposed rod-like members providing an articulate enclosure to facilitate relative tipping movements of the shank and forepart members, a resilient pad within the box, and means interconnecting said members whereby they assume approximately the longitudinal contour of the shoe bottom in response to the application of pressure through the pad to the bottom of the shoe.

2,656,554

SHOE BACK LINE PRESS

Adolf H. Altvater, Chesterfield, Mo., assignor to Western Supplies Company, St. Louis, Mo., a corporation of Missouri

Application October 27, 1949, Serial No. 123,951
10 Claims. (Cl. 12—51)



1. In a machine for making shoes, a base, a first die element on the base, a second die element, means mounting the second die element for movement on the base toward and from the first die element, the two die elements having concavo-convex surface portions shaped to correspond to a finished concavo-convex shape in a shoe upper, whereby they may shape the upper when brought together, the mounting means for the second die element including means to force the dies together, and means to separate the dies after a selected period of compression, the said means for forcing the dies together and for sepa-

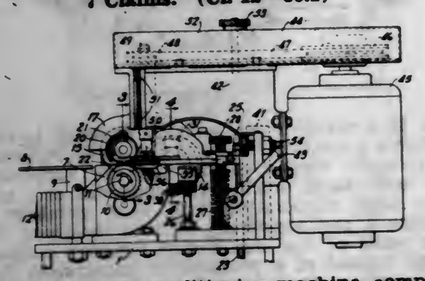
rating them being power operated, and manually operable means for bringing the dies together with any selected space between them, said power operated means having manually controlled means for causing the dies to be forced together into compressing relationship, and to dwell in such positions.

2,656,555

MACHINE FOR SIMULTANEOUSLY CONDITIONING THE ATTACHING SURFACE AND TRIMMING THE EDGE OF UNATTACHED SHOE SOLES

John H. Kelly, Pittsburgh, Pa.

Application January 8, 1951, Serial No. 204,881
7 Claims. (Cl. 12—85.1)



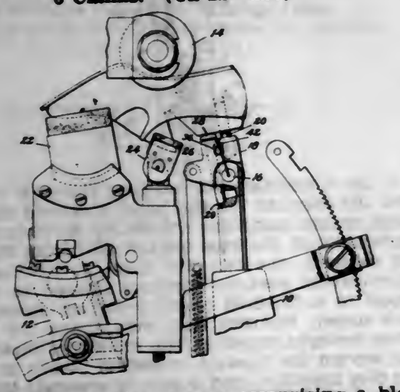
2. A shoe sole conditioning machine, comprising a rotary cutter, a rotary pressure roll mounted to cooperate with the rotary cutter in forming a throat through which a sole passes while being conditioned, a rotary feed roll having substantially the same peripheral speed as the pressure roll and mounted with its perimetral face adjacent the ends of the cutter and the pressure roll on one side of the throat to engage the edge of a shoe sole in the throat and aid in feeding it therethrough, a rotary edge trimming guide roll adjacent the end of the throat to engage the edge of the shoe sole to profile and trim the same while automatically guiding it through the conditioning throat, and power means to drive said edge trimming guide roll in a direction opposite to that of the movement of a shoe sole through the throat.

2,656,556

SHOE SUPPORT

Richard A. Unger, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application October 10, 1952, Serial No. 313,998
6 Claims. (Cl. 12—127)



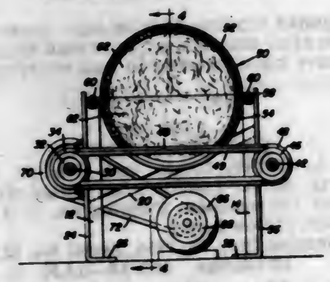
1. Shoe supporting means comprising a block having a recess in its upper surface, a last spindle removably seated in said recess and projecting upwardly therefrom, a vertically movable pin carried by said block adjacent to said recess, and means controlled by said pin for locking said spindle in said recess.

2,656,557

BOWLING BALL CLEANER

John J. Vargo, Oneonta, N. Y., assignor of one-third to Samuel La Monica, Oneonta, and one-third to George W. Squire, Cooperstown, N. Y.

Application May 19, 1950, Serial No. 162,866
3 Claims. (Cl. 15—97)



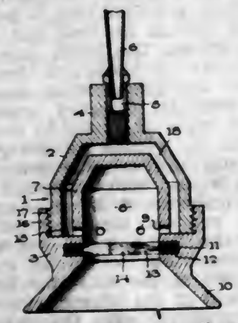
1. A bowling ball cleaning machine comprising a frame, a cage mounted on said frame and adapted to confine a bowling ball therein, said cage being composed of upper and lower hingedly connected semi-spherical sections each having a soft lining therein for cleaning a bowling ball, the lower section of said cage being held stationary on the frame and having an opening therein, a pair of spaced parallel shafts rotatably supported on said frame, a plurality of pulleys on each of said shafts, endless belts trained about said pulleys and about said shafts and including upper flights extending through the opening in said cage for rotating and twisting a bowling ball in the cage, and means for rotating said shafts.

2,656,558

COATING DEVICE FOR SMALL ARTICLES

Walter L. Crider, Blacksburg, Va.

Application June 22, 1951, Serial No. 232,998
3 Claims. (Cl. 15—136)



1. A device for applying an oil coating to bolts and the like comprising a body member forming a chamber having a closed end and an open end for receiving articles to be coated, a band of bristles secured to the chamber walls and extending into the chamber, said band of bristles being located sufficiently remote from the closed end of the chamber to provide a space inwardly of the band of bristles of substantial distance

for receiving articles to be coated, a passageway for coating liquid extending from a position opposite the closed end of the body member to a position opposite the side walls of the chamber only slightly inwardly of said band of bristles, the side walls of the chamber having openings therein communicating with the chamber inwardly of said band of bristles and with said passageway, a fitting carried by the body member opposite the closed end of the chamber and forming an inlet for the introduction into said passageway of a coating liquid to be passed therethrough and through said openings onto the band of bristles, said fitting being adapted to be connected to the spout of an oil can.

2,656,559

DENTAL BRUSH IN ELASTIC BASE FOR HANDPIECE

Adolph D. Wiseman, San Francisco, Calif.

Application November 28, 1949, Serial No. 129,758
1 Claim. (Cl. 15—189)



A dental brush comprising an elongated body of lengths of substantially parallel bristles, a sleeve of rigid material surrounding said bristles at one end of said body for holding said bristles together, a base member at one end of said body projecting axially outwardly thereof formed to provide a connection with the shank piece of a dental tool, said base member having a relatively soft, flexible, resilient skirt fully enclosing said sleeve and a flange rigid with said sleeve projecting radially outwardly within said skirt for holding said sleeve to said member.

2,656,560

DUAL PURPOSE VACUUM CLEANER NOZZLE

Lester C. Smith, West Hartford, Conn., assignor to The Spencer Turbine Company, Hartford, Conn., a corporation of Connecticut

Application February 24, 1950, Serial No. 145,935
3 Claims. (Cl. 15—373)



1. A nozzle for vacuum cleaners and the like comprising a body in the form of a shell having an elongated mouth opening downwardly in said body, an elongated outer sleeve of a soft material surrounding said mouth and projecting beyond the lower edge thereof, an inner sleeve of hard material vertically slidable within said mouth, spring means normally urging said inner sleeve outwardly from said mouth and adapted to retain the inner sleeve in extended position relatively thereto, abutment means for limiting the outward movement of said inner sleeve extending below the bottom of the outer sleeve, and positioning it with the lower end thereof a latch slidable in said shell and adapted to project into said mouth, a detent on said inner sleeve engageable with said latch to retain the sleeve in retracted position within the mouth against the tension of the spring means and with the lower end of said inner sleeve positioned above the bottom of the outer sleeve, a spring urging said latch into engagement with the detent, and a knob on said latch for manually retracting it against the tension of the said spring to permit the inner sleeve to be moved into projected position relatively to the outer sleeve.

2,656,561

OVERHEAD DOOR WHEEL MOUNT

James H. McKee, Aurora, Ill., assignor to McKee Door Company, Aurora, Ill., a corporation of Illinois

Application January 12, 1949, Serial No. 70,542
2 Claims. (Cl. 16—104)



1. A beam for an overhead type of door construction wherein a multisection door including sections of unequal weight is supported and guided by tracks located on opposite sides thereof so that the door can be moved from a vertical closed position to a horizontal open position and vice versa, a trunnion carried by the beam and adapted to be pivotally connected to a door section, and a track engaging roller carried on each end of the beam to distribute a load on said beam between points lengthwise of the track to increase the ease of operation in opening or closing the door, said trunnion being located intermediate said rollers and substantially closer to one of said rollers than the other to compensate for the unequal weight of said sections.

2,656,562

COMBINED HINGE AND LATCH

Fae C. Phillips, Fort Wayne, Ind., assignor to International Harvester Company, a corporation of New Jersey

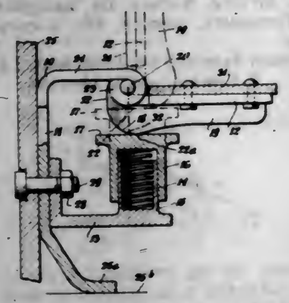
Application June 24, 1950, Serial No. 170,081
8 Claims. (Cl. 16—128.1)



1. A combined hinge and latch unit for an automotive vehicle hood cover comprising a first hinge element adapted to be rigidly fastened to a hood body; a second hinge element pivotally connected at one end to said first hinge element for relative swinging movement, said second element having its free end provided with an inverted U-shaped keeper; a channel-shaped latch plate adapted to be rigidly fastened to said hood cover along the web of the channel, said plate having a flange projecting from one of the leg portions of said channel provided with an aperture for receiving said keeper; a latch bolt slidably carried by the leg portions of said channel adapted to slide into latching engagement with said keeper when said keeper is posi-

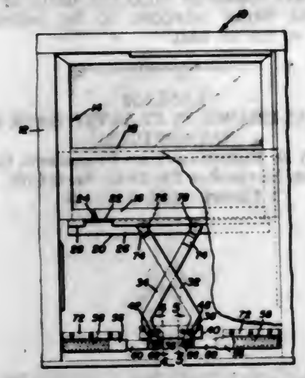
tioned within said aperture of said flange to releasably lock said hood cover to said hood body; and means operable externally of the vehicle for unlocking said hood cover including an arched link pivotally connected to said latch bolt.

2,656,563
COUNTERBALANCED HINGE
William Rees Jones, East Rochester, N. Y., assignor to Robert Trent Jones, Montclair, N. J.
Application July 18, 1950, Serial No. 174,448
1 Claim. (Cl. 16—141)



A counterbalanced hinge structure for pivoting a movable member at one side on a horizontal axis to a stationary structure to provide for swinging said movable member between horizontal position and a vertical position above said horizontal position, comprising a first hinge element to be attached to the movable member, a second hinge element to be attached to the stationary structure, pivot means having a horizontal axis and pivotally connecting said elements for swinging said first element about said axis between said horizontal and vertical positions, a cam associated with said first element beneath the same and movable therewith about said axis and having a curved, downwardly facing cam surface eccentric to the axis, said cam being shaped so that the lowermost point occupied by said surface continuously and progressively falls as the first hinge element swings downward, said point being at its highest locality when the first hinge element is at its said vertical position and being at its lowest locality when the first hinge element is horizontal, said cam being arranged to transmit downward load of the first hinge element to the said lowermost point of the cam surface at all positions of said downward swing of the first hinge element, and resilient means carried by the second hinge element wholly below the first hinge element, said resilient means being at one end fixedly associated with the second hinge element and pressing flatwise upward at the other end against the cam surface at its lowermost point, said resilient means being compressible downwardly by the cam for resisting the downward load of the first hinge element progressively more and more as downward swing of the first hinge element progressively lowers said lowermost point of the cam surface, and said resilient means comprising a support rigidly carried by the second hinge element and disposed at a locality spaced vertically below the cam, a platform having a flat upper surface disposed beneath and in abutment with the cam surface at its lowermost point, a tubular sleeve extending rigidly upward from the support, a tubular sleeve extending rigidly downward from the platform, said sleeves being coaxial and one of said sleeves being disposed in vertically sliding, telescoping relation around the other of said sleeves, and a coil spring having a vertical axis and coaxially fitted within the inner one of said sleeves and fixedly seated under compression between the support and the platform, said telescoping sleeves cooperating to enclose the spring.

2,656,564
SPRING ACTUATED SASH BALANCE
Angelo Colonna, Philadelphia, Pa.
Application November 26, 1951, Serial No. 258,167
3 Claims. (Cl. 16—200)

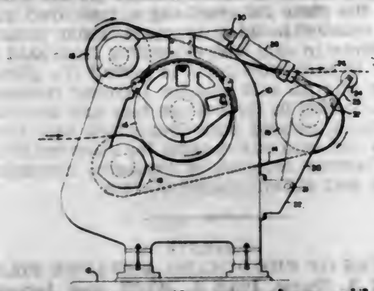


1. A sliding closure balance assembly for use in connection with a stationary support structure having opening means and a closure for said opening means slidably mounted in said support structure; comprising vertically disposed levers adapted to be pivoted on said support structure and disposed in crossed relation, the upper ends of said levers being free and, movable toward and from each other in coplanar relationship and adapted to have free and movable end thrust contact with a cooperating lower portion of the stated closure, spring balance units adapted to be fixed on said support structure, operating means affording an operating connection between the respective lower ends of said levers and their respective spring balance units, there being two spring balance units, the latter being in spaced axial alignment with each other and each unit embodying a cylinder, a coil spring in said cylinder, and a plunger slidable in said cylinder in end thrust contact with said spring.

2,656,565
VULCANIZING MACHINE
George E. Apel, Belmont, Mass., and Don F. Collins, Pontiac, Mich., assignors to Boston Woven Hose and Rubber Company, Cambridge, Mass., a corporation of Massachusetts
Original application September 23, 1949, Serial No. 117,432. Divided and this application October 24, 1951, Serial No. 252,862
1 Claim. (Cl. 18—6)

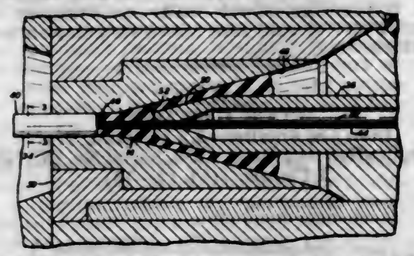
A vulcanizing machine comprising a frame, a cylindrical vulcanizing drum rotatably mounted in the frame, two rolls arranged in spaced relation one above the other in the frame forwardly of the drum and having their peripheries adjacent to the periphery of the drum, an endless pressure band of sheet steel having a rearwardly extending loop disposed rearwardly of the drum and passing forwardly therefrom around the rolls and from thence continuously around a substantially arcuate portion of the drum and forming an open loop to and adjacent to the drum between the rolls, a band tensioning roll within

and supporting said rearwardly extending loop remote from the drum and said rolls, two upwardly extending arms disposed in spaced relation respectively at opposite sides and rearwardly of the frame, means mounting the lower ends of the arms on the frame for pivotal movement about a common axis parallel with the drum and rolls, means rotatably supporting the tensioning



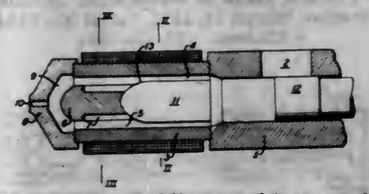
roll on and between the arms above said axis, an idler roll carried on and movable with the outer ends of said upwardly extending arms for supporting the vulcanized strip as it leaves the pressure band, and power operated means mounted on the frame forwardly of and connected to the arms above said axis for swinging the arms in both directions about their axis.

2,656,566
APPARATUS FOR EXTRUDING PLASTIC MATERIAL
George E. Berggren, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 4, 1948, Serial No. 63,594
1 Claim. (Cl. 18—13)



An apparatus for extruding organic, plastic material concentrically about a filamentary electrical conductor and a parallel tracer strand, which comprises an extrusion head having an extrusion passage therein, an extrusion die mounted at one end of said passage, a core tube positioned in the passage in axial alignment with the die for guiding a conductor and a parallel tracer strand toward the die, and means for forcing plastic material along the exterior of the core tube around the conductor and the strand and through the die, said die having a cylindrical exit port for shaping the plastic material about the conductor and the tracer strand and having a communicating frustoconical passage the walls of which converge upon the cylindrical port at an angle of about 30°, said core tube having a thick cylindrical wall and a frustoconical tip portion terminating in a blunt, transversely flat end, the frustoconical portion of the score tube being parallel to, projecting into, and sufficiently close to the frustoconical passage in the die to provide a constricted area wherein the plastic material flows at a relatively high velocity to allow the pressure of the advancing plastic material to become equalized circumferentially of the core tube by the time it reaches the flat end thereof, and the blunt end of the core tube being sufficiently thick and being spaced from the exit port of the die a distance sufficient to provide a relieved area wherein the plastic material flows substantially directly toward the conductor under an increased static pressure thereby simultaneously forcing the strand toward the conductor and further equalizing the pressure of the plastic material thereabout.

2,656,567
HEATING AND INJECTION CYLINDER IN INJECTION MOLDING MACHINES FOR THERMOPLASTIC MATERIALS
Willibald A. Venus, Munich, Germany, assignor to Hahn & Kolb, Stuttgart-N, Germany
Application September 28, 1949, Serial No. 118,287
In Germany October 1, 1948
3 Claims. (Cl. 18—30)

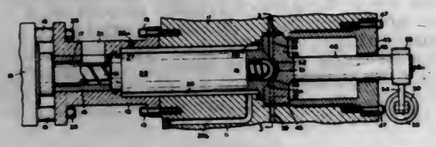


2. In injection molding machines, an integral heating and injection cylinder adapted for use with thermoplastic materials, in which the heat is transmitted through the cylinder to the material by means arranged on the outside of the cylinder, the heating cylinder comprising a longitudinal inner heating chamber within an integral structure having a circle of outer bore holes and a second circle of inner bore holes, said bore holes being arranged parallel to the outer bore holes, each outer bore hole intersecting the inner bore hole within the same radial plane on two parallel lines of their surfaces, the bore holes of the one circle extending the entire length of the outer portion of said cylinder, the bore holes of the other circle ending shortly before the outlet ends of the bore holes of the one circle, and said cylinder having a large central bore hole therein beginning with its cylindrical portion at the inlet end of said integral structure and ending with a tapered portion before the ends of the shorter bore holes, and the diameter of said central bore hole being such as to intersect the inner bore holes as well as the outer bore holes, the outer bore holes extending the entire length of the outer portion of said heating cylinder and said inner circle of bore holes ending before the outlet ends of said bore holes of the outer circle and the inner central bore hole ending before the ends of the inner circle of bore holes.

2,656,568
INJECTION MOLDING APPARATUS
Arthur S. Watkins and George L. Warsack, Port Clinton, Ohio, assignors to Produx Corporation, Port Clinton, Ohio, a corporation of Ohio
Application March 15, 1951, Serial No. 215,839
7 Claims. (Cl. 18—30)

1. In an injection molding apparatus, a feeding head comprising a screw conveyor, a fixed sleeve surrounding said screw conveyor and having a nozzle portion provided with a plurality of spaced sprues, an oscillatable valve having a

bearing surface engaging said nozzle portion and being provided with a plurality of spaced sprues each of which is registerable with one said nozzle portion sprue, and positioning means adapted



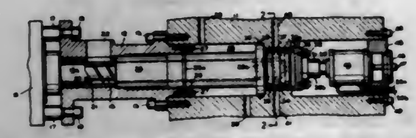
to oscillate said valve whereby in any one of a plurality of predetermined positions to register one only of said valve sprues with one said nozzle sprue.

2,656,569

INJECTION MOLDING APPARATUS

Arthur S. Watkins and George L. Warsack, Port Clinton, Ohio, assignors to Produx Corporation, Port Clinton, Ohio, a corporation of Ohio

Application March 15, 1951, Serial No. 215,840
4 Claims. (Cl. 18—30)



1. In an injection molding apparatus, a feeding head comprising a screw conveyor, a fixed sleeve surrounding said screw conveyor and having a nozzle portion provided with a plurality of spaced sprues, a sleeve valve surrounding said nozzle portion and being provided with a plurality of spaced sprues each of which is registerable with one said nozzle portion sprue, and means adapted to position said sleeve valve in any one of a plurality of predetermined positions to register one only of said sleeve valve sprues with one said nozzle sprue.

2,656,570

PLASTIC MATRIX FOR PRINTING RESISTORS

Elise F. Harmon and Philip J. Franklin, Washington, D. C., assignors to the United States of America as represented by the Secretary of the Army

Application November 15, 1951, Serial No. 256,584
2 Claims. (Cl. 18—44)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. The combination of a resilient matrix and pigment feeding means therefor for printing precision resistors on non-porous materials, comprising a cup-shaped matrix having a flange surrounding the opening thereof, resistor forming recesses in the outer bottom surface of the matrix, resilient members formed on said outer bottom surface and surrounding the opening of each recess, inlet and outlet ports in the bottom of said matrix communicating the cavity thereof with said recesses, a steel plate provided with a rectangular groove in its top face forming a boss therein upon which is fitted the said matrix with its inner bottom surface engaging the surface of said boss and the flange engaging the bottom of said groove, a retaining ring in said rectangular groove for keeping the matrix and plate in positive engagement, a first channel in the bottom face of the plate for receiving a measured quantity of resistor forming pigment under pressure, perforations in said boss extending from said first channel to said inlet ports to permit the pigment to enter and fill said resistor forming recesses, a second channel in the bottom face and associated perforations in said boss connecting said second channel and said outlet ports for relieving the resistor forming recesses of excessive amounts of pigment and air entrapped therein.

2,656,571

PROCESS OF PRODUCING AMYLOSE FILMS

Howard A. Davis, Ivan A. Wolff, and James E. Cluskey, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application November 22, 1949, Serial No. 128,901
4 Claims. (Cl. 18—57)
(Granted under Title 35, U. S. Code (1952), sec. 266)

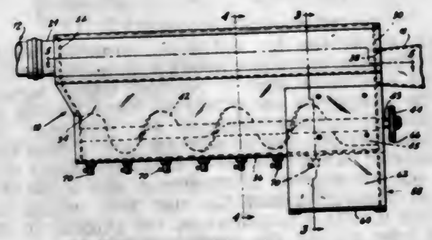
1. The method of forming amylose-containing films comprising dissolving an amylaceous substance comprising at least 50 percent amylose in an aqueous solution containing a saturating amount of an amylose complexing agent selected from the group consisting of butanol and pentanol in proportions to form a 2 to 30 percent amylose solution, maintaining the solution above its gelation temperature, casting the solution upon a surface to form an aqueous film and removing said complexing agent while maintaining the temperature of said film above its gelation temperature.

2,656,572

ROCK CATCHER

John Lee Smallwood, Levelland, Tex.

Application August 28, 1950, Serial No. 181,740
5 Claims. (Cl. 19—76)



1. A device of the type described, comprising a housing having opposed end walls, a bottom wall, and inwardly sloping side walls; an inlet in one end wall and an outlet in the other end wall; a screw-like conveyor member rotatably mounted within the housing adjacent the bottom wall, the flange portion of the screw-like member adjacent one end thereof being substantially parallel with the axis of rotation so as to provide a kicker plate; an opening in one of the side walls adjacent the kicker plate; and chute-like means extending from the housing about said opening.

2,656,573

CONDENSING SLIVER

John Green Kershaw, Oak Bay, Victoria, British Columbia, and Harold Fisher, Mount Royal, Quebec, Canada, assignors to Dominion Textile Company Limited, Montreal, Quebec, Canada

Application June 2, 1951, Serial No. 229,587
In Canada June 20, 1942
4 Claims. (Cl. 19—159)



1. An apparatus for laying sliver into a can, comprising in combination, a coiler including a head having a bottom part, a middle part pivoted to the bottom part, and an upper part pivoted to the middle part, the bottom part having an annular horizontal portion adapted to be positioned directly above a can into which the sliver is to be coiled, a tube gear having an annular portion normally bearing in sliding relationship on the annular portion of the bottom part whereby said tube gear is supported on said bottom part for rotation in contact therewith, said tube gear having an upper peripheral margin and being adapted for limited upward movement by pressure from the coiled sliver in the can beneath, a plurality of bearing members on said middle part in a position above the peripheral margin of said tube gear; the middle part, bottom part, and tube gear being so related that the middle part is supported by the bottom part with said bearing members normally placed a predetermined distance from said tube gear, the bearing members being adapted to contact the tube gear in sliding relation on upward movement of the latter whereby the entire weight of the middle and upper part is brought to bear on the tube gear while leaving the tube gear free to rotate.

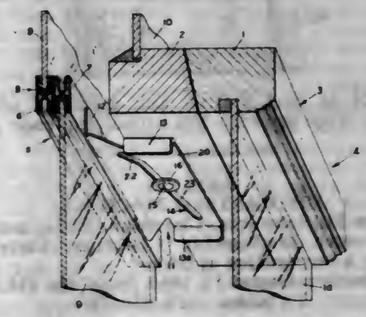
2,656,574

LATCHING MEANS FOR WINDOW MEETING RAILS

Harry A. Kaufmann, Detroit, Mich., assignor to The Kaufmann Corporation, Detroit, Mich., a corporation of Michigan

Application November 6, 1950, Serial No. 194,340
4 Claims. (Cl. 20—55)

1. In a sealing device for the meeting rails of a double hung storm window mounted adjacent to a double hung permanent window and upon the frame thereof, the meeting rails of said permanent window being parallel with and spaced horizontally from the meeting rails of the storm window, the combination comprising: a rectangular, flat body having inward and outward edges, the width of said body between said edges being substantially greater than the horizontal spacing between the respective meeting rails of said storm and permanent windows and a slot formed in said body diagonally arranged with respect to said edges, said slot having a locking portion at the inward portion thereof comprising over half of its length and disposed at a low angle to said outward edge, and having a positioning portion at the outward portion of said slot comprising less than half of its length and disposed at an angle to said outward edge greater than said low angle; means extending through said slot releasably and slidably securing said body to the lower surface of that meeting rail of said permanent window adjacent so said storm window, said means being spaced from the adjacent meeting rail of the storm window a distance which is intermediate the distances which the ends of the slot are spaced from said storm window meeting rail whereby said body may be urged outwardly into engagement with and retracted from said adjacent storm window meeting rail by movement of said body with respect to said means, a pair of co-planar, spaced pressure flanges secured to and extending upwardly from the outward edge of said body for engagement with the adjacent meeting rail of said storm window when said body is urged outwardly thereagainst; and gripping means integral with said body, whereby said device may be manually engaged for urging same against the adjacent meeting rail of said storm window.



2,656,575

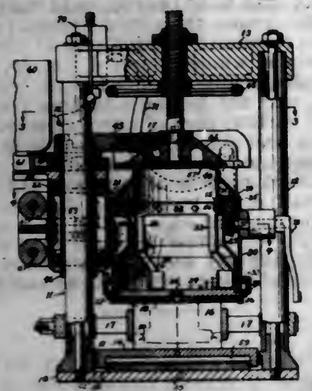
CORE BLOWING APPARATUS

Heinrich J. B. Herbruggen, Cleveland, Ohio, assignor to Federal Foundry Supply Company, Cleveland, Ohio, a corporation of Ohio

Application March 25, 1950, Serial No. 151,950
5 Claims. (Cl. 22—10)

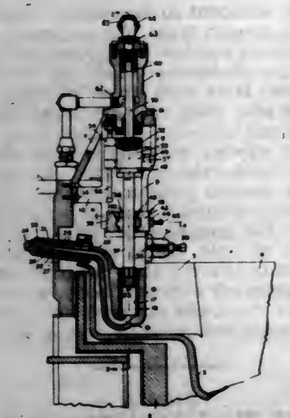
4. A core blowing apparatus comprising in combination, a closed frame having spaced vertical supports interconnected at the bottom through a core box supporting base and at the top through a crosshead, a sand transfer member having a sand receiving opening and arranged to be supported within the closed frame, a sand storage member arranged to be supported external to the closed frame, a removable cover for said transfer member opening, a journal mounted for movement along one of said vertical supports, means coupling said transfer member and said storage member to the journal, a rigid arm having one end coupled to said cover and the other end connected to said journal, a spindle carried by said crosshead for axial movement toward and away from said base and having one end con-

nected to said cover and supporting arm, and means for positioning said spindle to adjust the



distance of said journal and members coupled thereto from the core box supporting base.

2,656,576
DIE CASTING MACHINE
William H. Schwartz, Cleveland, Ohio, assignor to Lester Engineering Company, Cleveland, Ohio, a corporation of Ohio
Application August 17, 1950, Serial No. 179,961
7 Claims. (Cl. 22—70)



5. In a die casting machine, the combination of a frame, means providing a pasageway for molten metal, a yoke fixedly secured to said frame, a gooseneck slidably carried by said yoke for movement toward and away from said means into and out of engagement therewith, said gooseneck being formed with a chamber adapted to contain molten metal and with a passageway communicating such chamber with the passageway in said means when said gooseneck is in position engaging said means, releasable clamping means bearing on said gooseneck to retain the latter in position engaged with said means, a plunger reciprocable in said gooseneck to displace molten metal from such chamber through such passageways, plunger actuating means including a cylinder mounted in fixed position with respect to said frame and said yoke and a piston reciprocable in said cylinder, and a coupling securing said piston and plunger together whereby the latter is reciprocated by the former, said coupling having a transversely slidable connection between said plunger and said piston to assure free reciprocation of said piston in said cylinder and of said plunger in said gooseneck in the event of misalignment of said piston and said plunger when said gooseneck is clamped in position engaging said first-named means.

2,656,577
ATTACHING CLIP
Edward M. Carbary, South Acton, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application January 13, 1950, Serial No. 138,451
1 Claim. (Cl. 24—73)



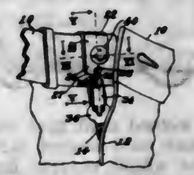
A spring metal clip of substantially U-shape for attaching an apertured supported member to an apertured support comprising, an intermediate inwardly bowed bight portion for engaging the underside of a support, opposed legs inclined inwardly towards each other extending upwardly from the ends of the bight portion for insertion into spaced apertures in a support member, the terminal ends of said legs being flared outwardly and having opposed wings extending inwardly from said terminal ends, the upper edges of said wings being inclined downwardly from the outwardly flared ends of the legs to provide camming surfaces therewith to spread the legs upon insertion of the legs into the apertures of an apertured support and upon application of the clip to opposite walls of a supported member, the lower edges of the wings facing the bight portion extending at an acute angle to said legs to provide locking shoulders for engagement with the edges of apertures in the opposite walls of an apertured supported member.

2,656,578
READILY APPLICABLE AND REMOVABLE GARMENT BUTTON
Thaddeus J. Tworek, Omaha, Nebr.
Application June 21, 1951, Serial No. 232,751
3 Claims. (Cl. 24—108)



1. As a new article of manufacture, a female button unit molded from pliant commercial plastics and shaped to provide a button, the latter having an imperforate pressure responsive diaphragm provided on the axial center of its reverse side with an integral outstanding stud substantially solid in cross-section, said stud being divided from end to end and providing a plurality of opposed openable and closable head gripping and retaining jaws, the latter being normally closed but spreading apart to open position when pressure is exerted upon said diaphragm in a manner to temporarily flex and deform the latter, a substantially rigid endless rim integral with and encircling the periphery of said diaphragm and projecting beyond the plane of the adjacent peripheral portion of the diaphragm, and radially disposed reinforcing webs formed integrally with said diaphragm and joined at their inner respective ends to diametrically opposite sides of said studs.

2,656,579
RETAINING DEVICE FOR SLIDE FASTENERS
David E. Wilson, Arlington, Va.
Application January 8, 1952, Serial No. 265,373
2 Claims. (Cl. 24—205.11)



1. A retaining device comprising a front wing and a back wing spaced apart by an integral portion to form a hook member, the front wing having its lower portion cut away on one side inwardly from said side edge to provide a recessed pocked and a downwardly extending arm member having a narrow end bent upwardly to form a hook member, said last named hook member being provided with a depression midway its length to form together with the arm member, a constricted passage to prevent displacement of a pull-tab, said back wing member extending downward less than the length of said front wing member to form a receiving slot in combination with said front wing member to receive a garment waist band.

2,656,580
SLIDING SNAP HOOK
William A. Javery, Torrington, Conn., assignor to Edwin W. Plumb, Morris, Conn.
Application November 30, 1951, Serial No. 259,116
3 Claims. (Cl. 24—239)



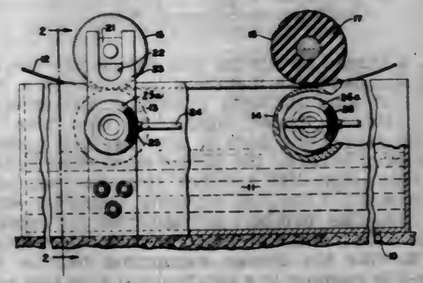
2. In a clip, an elongated body member, a hook member comprising an elongated straight shank secured at one end to said body member and having at its other end a return bend consisting of a bight portion and a hook portion in spaced transversely opposed relation to the straight portion of said shank adjacent said bight portion, the free end of said hook portion being at a point intermediate said bight portion and the forward end of said body member, a slide on said shank having a straight passage slidably receiving said shank and comprising a rearward part having an external cylindrical surface at a less radial distance from said shank than said hook portion and a forward part having an external surface conically tapered forwardly from the forward end of said cylindrical surface and of a length substantially less than the length of said hook portion, a spring on said shank between said body and said slide and normally urging the slide forwardly along the shank to a forward position limited by abutment of its forward end with said bight portion, and wherein the cylindrical rearward part of the slide is transversely opposed to said free end of said hook portion and said tapered forward part is entirely forwardly of said free end of said hook portion, and said slide being retractable against the force of said spring to locate said tapered part in transversely opposed relation to said free end of said hook portion.

2,656,581
CONCRETE FORM TIE
Harris Gordon Gates, Denver, Colo.
Application March 28, 1952, Serial No. 279,074
4 Claims. (Cl. 25—131)



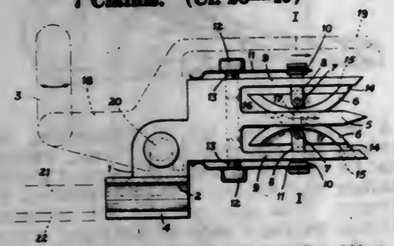
1. A form tie for use in connecting spaced sheathings for concrete mold forms, comprising a metal tie member adapted to connect the spaced sheathings and extend through openings in the sheathings, that part of the tie between the sheathings having a nick at the point where the tie is to be broken after the concrete has set and the sheathings removed, means for preventing concrete in plastic form from contacting the metal of the tie between the nick and the adjacent inner sheathing surface comprising, a coating of non-drying plastic material covering the nick and that part of the tie outwardly from the nick to the adjacent surface of the form sheathing, said coating forming a plastic layer that allows the part of the tie beyond the nick to be turned in the concrete and cause the tie to break at the nick, and a protective covering of varnish type material enclosing the plastic covering.

2,656,582
SLASHER ROLL
Abraham L. Freedlander, Dayton, Ohio, assignor to The Dayton Rubber Company, a corporation of Ohio
Application June 13, 1949, Serial No. 98,849
5 Claims. (Cl. 28—28)



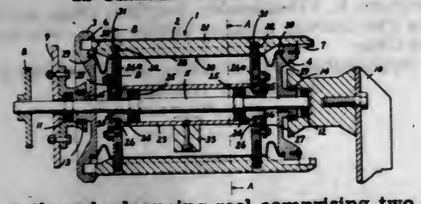
1. Apparatus for the sizing of textile yarns and threads comprising a liquid sizing bath, a guide roll at least partially submerged in said bath, a rubber-covered roll positioned above said guide roll exteriorly of the bath and resting upon said guide roll whereby rotation thereof is effected on rotation of said guide roll, means for conveying textile yarns and threads between said rubber-covered roll and said guide roll during the rotation of said rolls, said rubber-covered roll having formed in the surface thereof a plurality of spaced incisions extending at an angle to the direction of movement of the textile yarns and threads, said incisions being in the form of slits formed without removal of material, whereby control of the amount of sizing liquid left in the yarns and threads after passage between the rolls is effected.

2,656,583
THREAD GRIPPER
Max Bär, Augsburg-Goggingen, Germany, assignor to "Knotex" Maschinenbau G. m. b. H., Augsburg-Stadtbergen, Germany, a corporation of Germany
Application May 9, 1951, Serial No. 225,449
In Germany May 10, 1950
7 Claims. (Cl. 28—49)



1. A thread gripper for warp knotting machines, comprising a pair of gripping jaws which are open on all sides, means for suspending said gripping jaws after the manner of a balance beam, a movable guide for the suspension means, a bifurcated member accommodating said movable guide, and springs disposed on the outer side of the bifurcated member for producing the gripping pressure.

2,656,584
THREAD ADVANCING REEL
Seddon C. Nelson, Front Royal, Va., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application December 20, 1947, Serial No. 792,957
12 Claims. (Cl. 28—71.6)



1. A thread advancing reel comprising two cylindrical cage-like members each having a plurality of longitudinally extending circumferentially spaced thread supporting bars with the thread supporting bars of one cage-like member positioned between the thread supporting bars of the other cake-like member, stationary supporting means for the reel, separate means on which the cage-like members are mounted for rotation about axes that are eccentric to each other, means for moving the thread supporting bars of one cage-like member in a longitudinal direction relative to the thread supporting bars of the other cage-like member, the means on which one of the cage-like members is mounted being floatingly mounted on a fixed axis and spaced from and independent of the reel supporting means and means for holding the floatingly mounted means stationary.

2,656,585
PLIED YARN AND PLIED YARN FABRIC AND METHOD OF MAKING SAME
Howard Byers Jackson, Kings Mountain, N. C., assignor to Neisler Mills, Inc., Kings Mountain, N. C., a corporation
Application April 13, 1948, Serial No. 20,624
6 Claims. (Cl. 28—76)

1. A composite yarn comprising a direct spun synthetic yarn which is attenuated by the direct-spinning thereof and is shrinkable when wetted and a second yarn which is less shrinkable by wetting than said first mentioned yarn plied with the latter in said attenuated shrinkable condition thereof whereby when the resulting com-



posite yarn is wetted said first mentioned yarn shrinks more than said second yarn and the latter has portions which project laterally of said direct spun yarn in said composite yarn.

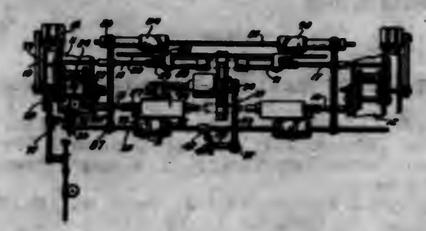
2,656,586
PILE FABRIC
Wilbur Elliott Cowie, Ottawa, Ontario, and Arthur Eugene Blouin, Crystal Bay, Ontario, Canada, assignors to The Minister of National Defence for Canada, Ottawa, Ontario, Canada
Application May 25, 1950, Serial No. 164,086
In Canada May 28, 1949
12 Claims. (Cl. 28—80)



1. A lightweight flexible pile fabric for cold weather clothing comprising, a flexible ground cloth of interlaced yarns and a pile surface having substantially smooth-surfaced artificial filaments anchored in interlaced relationship thereto, said filaments having a denier per filament within the range of about 10 to 75 and being flexible at and retaining their strength at the sub-zero temperatures obtaining under polar conditions, and having a tensile strength per filament greater than about 1.36 gms. per denier and exhibiting low moisture absorption at high relative humidities, said pile fabric having a structure modified from the original to provide pores to give to the fabric a low air transmission rate less than substantially 10 cubic feet per square foot per minute at ½ inch water pressure differential.
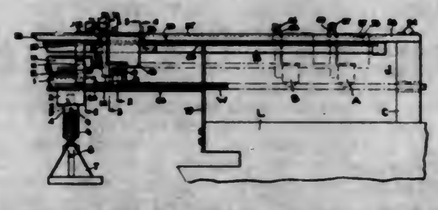
2,656,587
MACHINE TOOL
Donald H. Montgomery, West Hartford, Conn., assignor to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut
Application May 14, 1948, Serial No. 26,945
9 Claims. (Cl. 29—50)

1. In a machine of the character indicated, an indexible turret, a plurality of spindles facing said turret, means generally longitudinally movable with one of said spindles, indexing means for said turret and driven in timed relation with longitudinal movement of said one spindle, longitudinally reciprocable locating means engageable with said turret for locating an indexed position of said turret, longitudinally reciprocable locking means for locking a located indexed position of said turret, and means connecting said locking



means and said locating means to said longitudinally movable means.

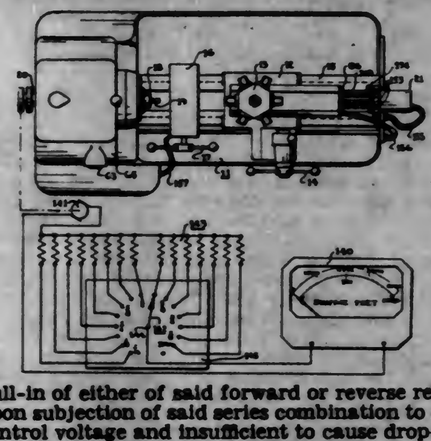
2,656,588
RETRACTABLE BAR FEEDING MACHINE
Stanford Ovshinsky, Akron, Ohio, assignor to The Stanford Roberts Manufacturing Company, Akron, Ohio, a corporation of Ohio
Application March 24, 1949, Serial No. 83,128
9 Claims. (Cl. 29—61)



1. The method of handling bar stock comprising the steps of gripping the bar stock at a first position and at an initial position of the bar stock, advancing the bar stock, releasing the bar stock at a second position, severing the bar stock, gripping the bar stock at a third position spaced between the first and second positions, and retracting the bar stock to its initial position.

2,656,589
SEMIAUTOMATIC TURRET LATHE
Claude E. Greene and Robert B. Leaber, Sidney, Ohio, assignors to The Monarch Machine Tool Company, a corporation of Ohio
Application March 2, 1948, Serial No. 12,586
13 Claims. (Cl. 29—64)

10. A turret lathe having a spindle motor with an armature, power means for supplying power to said armature, a turret mounted on said lathe and having a given number of indexable positions, control means for controlling the energization supplied by said power means to said spindle motor and hence the speed thereof, said control means including indexing switch means actuated in accordance with the position of said turret, said indexing switch means having twice said given number of contact positions with the odd-numbered positions thereof corresponding to said given number of indexable positions of said turret, a forward relay, connection means interconnecting said odd-numbered contact positions of said indexing switch means and said forward relay for energization thereof to provide forward rotation of said spindle motor in each of said indexable positions, a reverse relay, means for energizing said reverse relay to provide a reverse rotation of said spindle motor and to render ineffective the control established by said forward relay, forward control means energizable upon actuation of any of the even-numbered positions of said indexing switch means for de-energizing said reverse relay to thereby restore the spindle motor to the control of said odd-numbered positions of said indexing switch means, dynamic braking means for dynamically braking said spindle motor during movement of said turret from one indexing position to another, said dynamic braking means including means for disconnecting said power means from said armature and connecting a dynamic braking resistance thereacross, control voltage means capable of energizing said forward and reverse relays, a first holding resistor serially connected to said forward and reverse relays, said first holding resistor having a resistance value sufficient to prevent

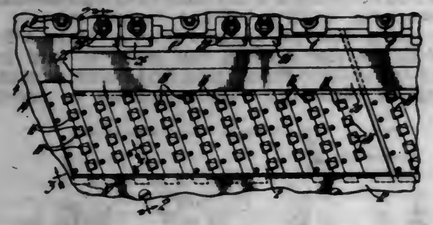


pull-in of either of said forward or reverse relays upon subjection of said series combination to said control voltage and insufficient to cause drop-out of said relays after one of said forward or reverse relays has pulled in, a braking relay and a second holding resistor serially connected across said armature with said second holding resistor having a resistance value sufficient to prevent pull-in of said braking relay on normal armature voltage applied to said last named series combination and insufficient to cause drop-out of said braking relay on normal armature voltage after said braking relay has been energized, a normally closed braking relay contactor bridging said first holding resistor, a braking control relay, means for energizing said braking control relay upon energization of said armature from said power means, and a normally open braking control relay contactor bridging said second holding resistor.

2,656,590
BROACH
Clarence A. Hooper, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 15, 1948, Serial No. 27,182
1 Claim. (Cl. 29—95.1)

In a device for forming plane or generally curved surfaces on metal shapes, a support member adapted for reciprocating movement along a line extending substantially longitudinally thereof, said support member having a plurality of inwardly extending recesses normal to the surface of said support member and being disposed in substantially parallel rows which are oblique to the line of movement of said support member, a series of spaced cutting tools slidably disposed

within each of said recesses and having one end thereof projecting beyond the surface of said support member, a cutting edge upon said end of said tool and formed to make a surface cut on a work piece when said support member moves in one direction with respect thereto, said tools in said recesses being so staggered with respect to the tools in adjacent recesses that the cuts made by said cutting edges in said work piece will overlap, adjusting members threadably secured to the opposite ends of each of said cutting tools and engaging the bottoms of said recesses, said members being independently adjustable to vary the amount that each of said cutting edges pro-



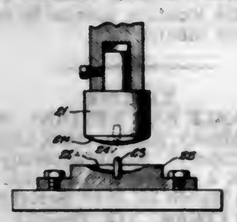
ject beyond said support member whereby the amount of said surface cuts in said work piece may be varied, a threaded locking member mounted on each of said adjusting members and axially displaceable thereon for engaging said opposite ends of said tools to lock said adjusting members in a predetermined adjusted position on said cutting tools, and additional locking means for locking said tools in said support and positioned obliquely with respect to said tools and biasing the base of said adjusting members in abutment against the bottom of said recess simultaneously with biasing the cutting tools against the side of the recess opposite the direction in which the cut is taken thereby.

2,656,591
MILLING CUTTER
Carl A. Billman, Rochester, N. Y.
Application June 22, 1950, Serial No. 169,676
10 Claims. (Cl. 29—105)



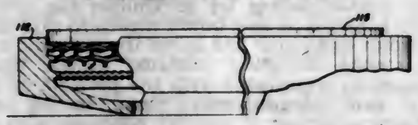
1. A cutting tool comprising a rotary head having a plurality of blade-receiving sockets therein arranged about its axis, a blade mounted in each socket, each blade having a plane side surface, and means for securing each blade in its socket comprising a clamping member which is mounted to be reciprocable axially in a recess in said head that opens at one side into said socket and that extends at right angles to the axis of said socket, each clamping member having a wedge-shaped head which engages the plane side of the associated blade, and each clamping member having a threaded shank integral with said wedge-shaped head, and a nut having an external threaded surface which is threaded into the recess and an internal threaded surface which threads onto said shank, the external threaded surface of the nut being threaded differently from its internal threaded surface.

2,656,592
METHOD OF MANUFACTURING SNAP DISK SPRINGS
John B. Cataldo, Bernardsville, and Elbert De F. Tidd, Clinton, N. J., assignors to John B. Pierce Foundation, New York, N. Y., a corporation of New York
Application January 18, 1950, Serial No. 139,182
3 Claims. (Cl. 29—148)



1. A method of producing a snap disc spring comprising slowly compressing a flat, stress-free, disc blank of resilient sheet material between uniformly curved male and female die components adapted to work the full surfaces of the disc and having rounded working surfaces to impart a dished shape to the disc whereby the convex surface of the disc has permanent tensile stresses imparted thereto and the concave surface has permanent compressive stresses imparted thereto, and, with the once-worked disc turned over with respect to the male and female working surfaces of the dies to present the convex surface of the disc to a male die, slowly compressing said once-worked disc between uniformly curved male and female dies adapted to work the full surfaces of the disc and having rounded working surfaces whereby the disc is dished in the opposite direction to impart tensile stresses to the surface initially having compressive stresses therein and nullifying a portion of said compressive stresses and to impart compressive stresses to that surface originally having tensile stresses and nullifying a portion of the latter, thereby to yield a snap disc spring each surface of which has both compressive and tensile stresses imparted permanently therein, said stresses being a function of the radii of curvature of the respective dies and the pressures used in the die operations.

2,656,593
COOLING CASTINGS OVER SIZING FORMS
James C. Heintz, Lakewood, Ohio; The Cleveland Trust Company, executor of the said James C. Heintz, deceased
Application September 21, 1951, Serial No. 247,729
3 Claims. (Cl. 29—148)



1. The method of forming a metal casting with an opening in it, which comprises casting the metal in a mold, removing the cast metal from the mold while still hot and shrinkable, putting a cool sizing form smaller than the opening in the opening in the casting, said sizing form exactly fitting the opening when the casting is cool, then shrinking the casting over the

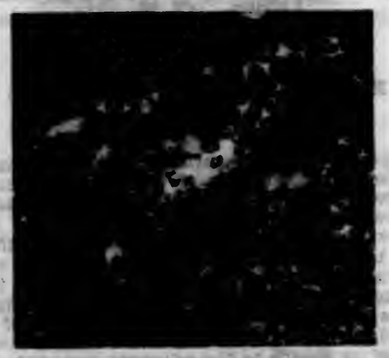
sizing form, thereby preventing the casting from becoming misshapen while shrinking during further cooling, and then separating the casting and the sizing form.

2,656,594
METHOD OF FORMING BOLT-RETAINING RINGS FOR FLANGED PIPE COUPLING ASSEMBLIES
Carl J. Westling, West Orange, N. J., assignor to Vulcan Research Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application November 2, 1950, Serial No. 193,616
1 Claim. (Cl. 29—156)



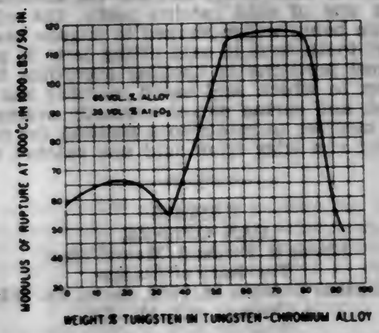
The method of forming a bolt-retaining ring for flanged pipe couplings which consists of cutting open notches with a semi-circular contour at their inner ends in one flange of an angle stock piece so as to extend from the free edge of the flange to a point adjacent to the other flange thereof, said notches being spaced from one another along the one flange, bending the other flange in a flatwise manner at the notches so as to partially close the notches at the free edge of the one flange and to form bolt-retaining openings in the ring and simultaneously forming the stock piece into a polygonal shape, and finally joining the ends of the stock piece together.

2,656,595
CHROMIUM-ALLOYED CORROSION-RESISTANT METAL POWDERS AND RELATED PRODUCTS
George Stern, Mamaroneck, Seymour J. Sindeband, Chappaqua, and Joseph P. Scanlan, Yonkers, N. Y., assignors to American Electro Metal Corporation, Yonkers, N. Y., a corporation of Maryland
Application March 31, 1950, Serial No. 153,286
4 Claims. (Cl. 29—182.2)



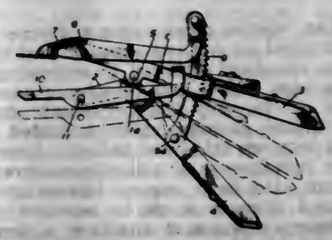
1 A sintered cake body of powder particles which is readily comminutable into soft powder particles, the particles of said cake body being composed essentially of at least one metal of the group consisting of iron containing at most about .2% carbon, of nickel, and of cobalt, and mixtures and alloys of said metals, said cake body having been subjected to a chromium-alloying treatment causing at least the surface layer of said particles to become alloyed with chromium deposited on the particles from a chromium compound at elevated temperatures, said cake body containing at least 3% chromium and having at most a density of about 5 grams per cubic centimeter.

2,656,596
TUNGSTEN-CHROMIUM-ALUMINA METAL CERAMICS
Louis A. Conant and Daniel M. Gillies, Buffalo, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application May 17, 1949, Serial No. 93,694
4 Claims. (Cl. 29—182.5)



1. A metal ceramic product characterized by its oxidation resistance and strength at elevated temperatures composed of a strongly cohesive, sintered mass of intimately dispersed minute particles of alumina and metal, said alumina being present in said mass in an amount between 5 volume percent and 50 volume percent, said metal being present in said mass in an amount between 95 volume percent and 50 volume percent, said metal being composed by weight of between 20% and 45% chromium and between 80% and 55% tungsten.

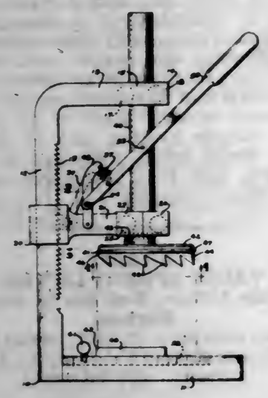
2,656,597
VALVE SPRING LIFTER
Evan Meirion Arthur, West Heath, Birmingham, England
Application February 10, 1949, Serial No. 75,547
In Great Britain February 11, 1948
1 Claim. (Cl. 29—221)



A valve spring lifter comprising an upper hand grip lever which is substantially straight and a lower hand grip lever which is angular and each provided with a hand grip side, said lower hand grip lever being pivoted on said upper hand grip lever with the pivot located substantially intermediate the ends of the levers, an upper lifting jaw and a lower lifting jaw pivotally mounted intermediate their ends, respectively on one end of each of said upper and said lower hand grip

levers, a link pivotally connected to the upper lifting jaw and to said lower hand grip lever on said hand grip side of the latter and a tail piece on the lower gripping jaw slidably engaging the upper hand grip lever on the hand grip side of the latter so that said gripping jaws remain substantially parallel when moved apart, a rear edge on said link which is curved so that the distance from such rear edge along the upper hand grip lever to the axis of the pivotal mounting of the upper gripping jaw on the upper hand grip lever is the same in all positions of the upper hand grip lever in relation to said link, ratchet teeth on said rear edge of said link, a catch member rotatably mounted on said hand grip side of said upper hand grip lever and having a rim concentric with the axis of rotation of said catch member for slidably engaging one of said ratchet teeth, the edge of said rim being wedge shaped to engage said one ratchet tooth to hold said lifting jaws in predetermined positions of opening according to the position to which said catch member has been rotated, and spring means normally urging said catch member to rotate to a position for releasing said rim edge from said one ratchet tooth.

2,656,598
CAN OPENER
Elmer R. Birdsall, Mount View, Territory of Alaska
Application October 31, 1952, Serial No. 318,057
4 Claims. (Cl. 30—5.5)



1. A can opener comprising a frame adapted to be mounted on a fixed support and including a base, a standard adapted to extend upwardly from the base and a first plunger guide on said standard at the end thereof remote from said base, a second plunger guide mounted on said standard between said base and said first plunger guide for movements of adjustment toward and away from said base, means releasably locking said second plunger guide in selected positions of adjustment along said standard, a plunger extending slidably through said plunger guides for longitudinal movements toward and away from said base, a toothed cutter mounted on the end of said plunger adjacent said base for cutting openings in the tops of cans supported in upright position on the base, and a hand lever pivotally mounted on said second plunger guide and connected to said plunger for moving said plunger and said cutter toward and away from said base.

2,656,599
SAFETY RAZOR
Samuel Segal, New York, N. Y.
Application April 18, 1952, Serial No. 282,924
7 Claims. (Cl. 30—60.5)



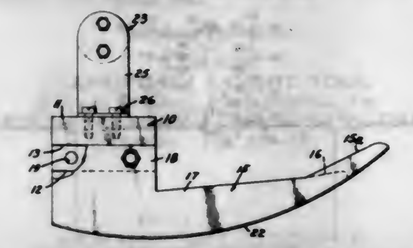
1. A safety razor comprising a member having a blade-supporting face, a carrier having a blade-lifting portion which is movable with respect to the plane of said face, cap sections pivotally mounted upon said carrier and having connections with said member whereby they are swung transversely as the carrier is moved, a shaft right angularly disposed to said carrier and secured thereto, a hollow handle in which said shaft is slidable having secured to one of its ends said member, first operating means at one end portion of said handle constructed and arranged to move said shaft and carrier as well as the closed cap sections first as a unit and then to swing the cap sections on the carrier in unclamping a blade which has been clamped in position upon said member, and second operating means at the other end portion of said handle constructed and arranged to move the shaft as well as the carrier and closed cap sections only as a unit relative to said blade-supporting member so as to change the flexing of a blade which is clamped in position upon said blade-supporting member.

2,656,600
PARING KNIFE HAVING WATER DISCHARGING MEANS
Floyd R. Barbee, San Gabriel, Calif.
Application April 26, 1950, Serial No. 158,267
1 Claim. (Cl. 30—123)



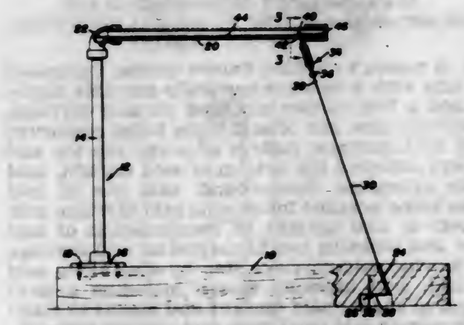
A paring knife comprising a blade, a tang extending longitudinally of the blade at one end thereof and having less width than the blade, an elongate handle having a bore extending longitudinally therethrough and opening through both ends thereof, a nipple extending from one end of the handle and having the bore passing therethrough for connection of a water supplying tube to the handle, said bore at the end remote from the nipple being of enlarged diameter through a part of its length to the adjacent end of the handle, and said handle having a central slot formed longitudinally therein through the length of the portion of the bore of enlarged diameter, the slot lying in the plane of the axis of the bore, said slot receiving said tang whereby the tang divides the bore through the enlarged portion to provide water outlet ports discharging along opposite side faces of the tang and blade.

2,656,601
CUTTING IMPLEMENT
John W. Albritton, Pasadena, Calif.
Application March 31, 1950, Serial No. 153,158
1 Claim. (Cl. 30—305)



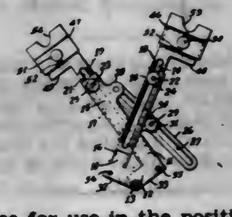
In a cutting implement, an elongated body in the form of a length of bar stock of rectangular cross-section having a plurality of equidistantly spaced slots formed transversely in its lower side and a pair of parallel, horizontally spaced, longitudinal bores passing through the slots and opening through the ends of the body, an elongate cutting blade having an upstanding shank at one end substantially at right angles to the axis of the blade, and snugly fitted in each of the slots, said shank being provided with a pair of apertures in registry with said bores, bolts passing through the bores having nuts at their ends, said blades having their top edges straight for a major portion of the lengths thereof forwardly from said shanks and their bottom edges sharpened and curving forwardly and upwardly throughout their entire lengths, spaced pairs of spaced L-shaped brackets mounted on the top side of the body, and a hand grip member in the form of a length of round rod stock secured to and between each pair of the brackets, certain of said blades being shorter than the others and disposed in sets of an equal number each between the adjacent of the longer blades, one of the longer blades being positioned at each end of the body and said shorter blades being of the same general width as that of the longer blades throughout the major lengths thereof forwardly from their secured ends.

2,656,602
CHEESE SLICER
Jesse B. Taylor, Greeley, Colo.
Application January 15, 1952, Serial No. 266,471
4 Claims. (Cl. 31—25)



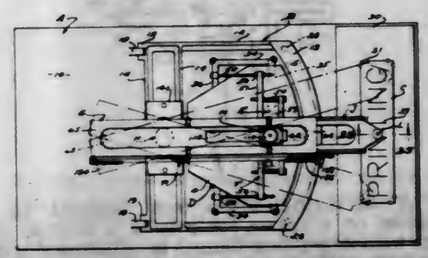
1. A cheese slicer comprising a base having a flat upper surface to slidably receive cheese thereon, a support attached to the base and including a substantially horizontal arm overlying the base, a vertically inclined thin wire element having a lower end attached to the base, said arm being hollow and having an opening, a turnbuckle including upper and lower eye screws, said lower eye screw being attached to the upper end of said wire, the upper eye screw extending into the opening, and a rod in the arm and extending through the upper eye screw to hold the latter in the opening.

2,656,603
INSTRUMENT FOR RELATING CASTS TO DENTAL ARTICULATORS
Jerome E. Brassie, York, Pa., assignor to The Dentists' Supply Company of New York, York, Pa., a corporation of New York
Application December 20, 1951, Serial No. 262,609
26 Claims. (Cl. 32—32)



1. A device for use in the positioning of bite-plates and casts in a mechanical articulator which comprises a pair of longitudinally extensible members pivotally secured together at one end, and means at the pivoted end of each member defining a straight line at right angles to the longitudinal axis of said member.

2,656,604
MACHINE FOR REPRODUCING PATTERNS OR IMAGES
Arthur W. Scruggs, Bloomington, Calif.
Application August 20, 1949, Serial No. 111,368
28 Claims. (Cl. 33—23)

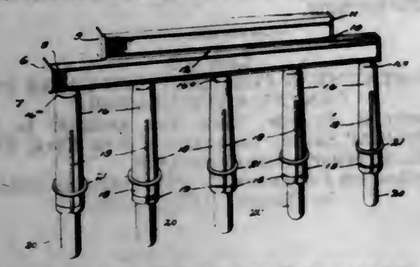


2. A mechanism of the character described including, a table carrying a templet and work, a flat base having one end pivoted to the table and having a track at the other end, an elongate frame having one end portion pivoted to the base on an axis perpendicular thereto, means supporting the other end portion of the frame on said track, two parallel relatively movable slides carried by the frame to operate longitudinally thereof, a stylus carried by one slide to operate on the templet, a tool carried by the other slide to act on the work, and a differential drive through which the last mentioned slide is operated by the first mentioned slide.

2,656,605
CHALK HOLDER OR THE LIKE
Leland F. Schlieder, Manchester, Vt.
Application February 11, 1952, Serial No. 270,931
6 Claims. (Cl. 33—41)

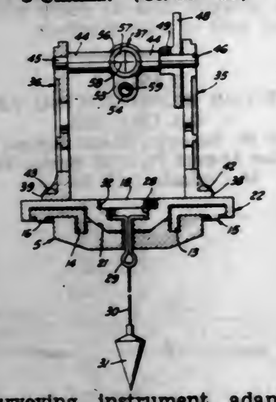
1. In a chalk holder or the like, the combination of a hand grip-providing base member, a

chalk stick holder, said base member having a seat-providing recess closed at its inner end, a resilient seat member positioned in and engaging the side walls and inner end of said recess, said seat member having an outwardly opening hole, and a mounting portion carried by said



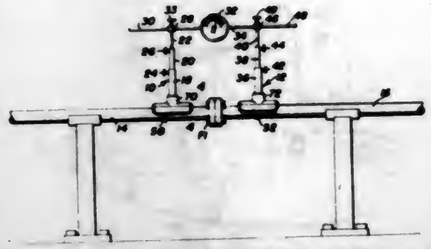
chalk stick holder and frictionally engaged in said seat member hole, said mounting portion having a cross section but slightly greater than the cross section of said hole, whereby the chalk stick holder is removably mounted for slight universal lateral yielding movement when in use.

2,656,606
SURVEYING INSTRUMENT
Donald C. Porter, Bakersfield, Calif.
Application March 12, 1951, Serial No. 215,678
3 Claims. (Cl. 33—69)



1. A surveying instrument adapted to be mounted on a tripod comprising a circular base plate with depending flanges to which said tripod may be attached, said base plate having a central opening, a central recess and a surrounding annular recess, a first rotatable plate having a central opening with a diameter greater than the diameter of said central recess in said base plate and adapted to have a portion thereof mounted in said annular recess of said base plate, a surface of said rotatable plate contacting a surface of said base plate, a second rotatable plate having a central opening, a surface parallel with the surface of said first rotatable plate and having a surface extending into and contacting a surface of said central recess of said base plate, means passing through all of said central openings for holding all of said respective contacting surfaces in contact with one another, a pair of trunnion standards mounted on said second rotatable plate and having bearing surfaces in the ends thereof, a telescope tube having an axle mounted on said bearing surfaces, a level supported by said telescope tube, and an indicia wheel mounted on said telescope tube axle for measuring the angle of tilt thereof.

2,656,607
ALIGNING DEVICE
Claude J. Harding, Plainview, Tex.
Application January 28, 1952, Serial No. 268,571
3 Claims. (Cl. 33—84)



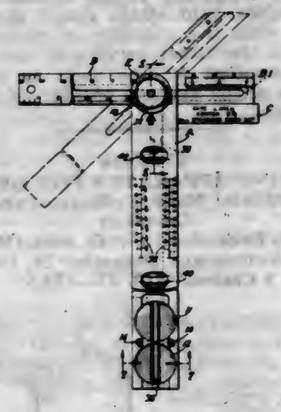
1. A shaft aligner comprising a pair of supports, means carried by each of the supports for attaching the same to adjacent ends of a pair of shafts, an indicator mounted on one support and having a needle actuating stem extending toward the other support, and a rod element carried by said other support engaging the stem, said means comprising a curved magnetic base plate, a pair of curved magnetic base plate sections hinged to the base plate, and a rubber strip carried by each section and said base plate.

2,656,608
MASON'S ALIGNING FIXTURE
Adrian W. Craig and Robert L. Sears, Des Moines, Iowa, and S. Eugene Hubbard, Chicago, Ill.; said Hubbard assignor to said Craig and said Sears, jointly
Application September 30, 1950, Serial No. 187,742
9 Claims. (Cl. 33—85)

1. A mason's aligning fixture having a plumbed upright with a carriage vertically movable thereon and a line carrier mounted on said carriage, a pair of ropes, one of said ropes being connected with said carriage, pulleys adjacent the top and pulleys adjacent the bottom of said upright, said ropes extending therearound, said one of said ropes being adapted for moving said carriage with respect to said upright by manipulation of said rope, and indexing means carried by said carriage for moving said carriage step-by-step along said upright, said indexing means including a pawl biased to engage said upright and means to manually release said pawl from said upright comprising the other one of said ropes, the ends thereof being connected to said release means.

5. In a mason's aligning fixture having a plumbed upright with a carriage vertically movable thereon and a line carrier mounted on said carriage, a rope connected with said carriage, pulleys adjacent the top and bottom of said upright, said rope extending therearound for moving said carriage with respect to said upright by manipulation of said rope, said line carrier being retractable relative to said carriage, and a cam for effecting such retraction.

2,656,609
CARPENTER'S LAYOUT TOOL
William Siggson, Philadelphia, Pa.
Application December 18, 1952, Serial No. 326,683
6 Claims. (Cl. 33—94)



1. In a carpenter's layout tool, a body having a pair of parallel faces and a pair of parallel sides and a bore at one end, a movable blade with a slot therein, a relatively short abutment detachably mounted in the body at right angles thereto and adjacent the pivot of the movable blade, a disc having indicia thereon to indicate the angle between the body and the blade, a bolt to hold said disc and said movable blade in fixed relationship to each other, said bolt securing said blade and said disc to said body member by passing through said bore, and a thumb nut on said bolt to lock said movable blade and said disc in any relationship to said body.

2,656,610
DEVICE FOR DETERMINING THE DEPTH OF WATER OF A PREDETERMINED TEMPERATURE
Ray O. Hooker, San Fernando, Calif.
Application January 14, 1952, Serial No. 266,350
7 Claims. (Cl. 33—126.5)



1. A device for determining the depth of a water stratum of a particular temperature comprising a box-like structure including an air chamber and a housing, said air chamber having a wall provided with an opening, a thermally responsive means of the loop type mounted in the housing, an arm fixed to and projecting from the outer end of the loop of the thermally responsive means, a valve connected to and supported by said arm and normally disposed for closing the opening of the air chamber wall, and a raising and lowering element connected to and suspending said box-like structure for lowering it into the water whereby when the box-like structure reaches a water stratum of a particular temperature the arm will be actuated by the thermally responsive means for displacing the valve away from the air chamber to uncover the opening thereof to permit the air to escape therefrom to rise to the surface of the water for indicating the location of the box-like structure in the water stratum of a desired temperature.

2,656,611
LIQUID LEVEL GAUGE
Paul A. O'Neill, San Francisco, Calif., assignor to Union Machine Company, San Francisco, Calif., a corporation of California
Application March 2, 1951, Serial No. 213,625
6 Claims. (Cl. 33—126.7)

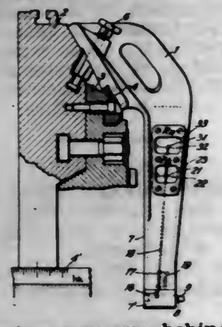


1. A liquid level gauge comprising: an annular member having inner and outer surfaces converging toward each other forming an annular edge lying in a plane; means defining a point; and means securing said point forming means to said member and disposing said point within said annular member, said point terminating on one side of said plane.

2,656,612
GAUGE FOR ADJUSTING BLANKS IN GEAR CUTTING MACHINES
Paul Aschwanden, Zurich, Switzerland, assignor to Verwaltungsgesellschaft der Werkzeugmaschinenfabrik Oerlikon, Zurich, Switzerland
Application February 26, 1948, Serial No. 11,098
In Switzerland November 2, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires November 2, 1966
3 Claims. (Cl. 33—174)

1. A gauge for adjusting the blank in a gear cutting machine, comprising a measuring arm provided with means for adjustably mounting the gauge to a gear cutting machine, a measuring head on said arm, two movable feeler members protruding from said measuring head and hav-

ing contact faces, the contact face of one feeler member extending at right angles to the contact face of the other feeler member, whereby the two contact faces are adapted to be applied against two faces of the blank extending at right angles to each other, a measurement indicating device for simultaneously indicating the measurements of each feeler member, said indicating device including two indexes pivotally mounted in the measuring head at the free end of said measuring arm, the axes of said indexes being parallel to each other and the indexes extending within



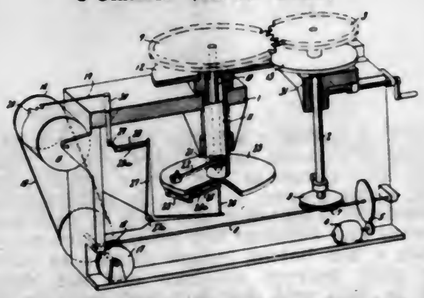
said measuring arm one behind the other towards the opposite end of the arm, means operatively connecting each index with one of said feeler members for transmitting movement from said feeler members with equal ratio of transmission to the corresponding indexes, and two scales disposed one above the other in said measuring arm and each cooperating with the free end of one of said indexes, the zero positions of said indexes being in superposed alignment, so as to permit visual comparison of the deviations of the two indexes from the corresponding zero positions.

2,656,613
APPARATUS FOR CALIPERING WELL BORES
Ralph W. Goble, Long Beach, Calif., assignor to Eastman Oil Well Survey Company, Denver, Colo., a corporation of Delaware
Application April 17, 1948, Serial No. 21,633
6 Claims. (Cl. 33—178)



1. In well caliper apparatus for measuring an earth bore which may have relatively wide variations in diameter, a measuring unit for movement longitudinally in a well bore to thereby produce electrical current whereby visible recording can be accomplished by electrical response means at the surface, said unit comprising a plurality of members each capable of engaging the bore at circumferentially spaced points and movable in accordance with variations in the cross-sectional area of the bore as the unit is moved, an electrical transmitter means carried by the unit and including means for generating and transmitting electrical impulses of predetermined frequency, and means including strain gauge means controlled by the plurality of members movable in accordance with the variations in the cross-sectional area of the bore for directly varying the frequency of the transmitted electrical impulses, said strain gauge means being associated with the plurality of movable members so that the direct varying of the frequency being transmitted will be such as to be representative of the average position of the movable members.

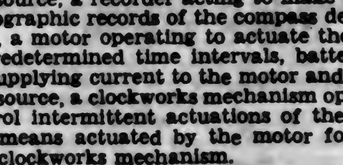
2,656,614
TESTING APPARATUS FOR GEARS
Carl Wilhelm Mahr, Esslingen (Neckar), Germany
Application December 13, 1949, Serial No. 132,662
In Switzerland December 15, 1948
5 Claims. (Cl. 33—179.5)



1. A testing apparatus for gears and like toothed elements, comprising a first shaft, a second and hollow shaft surrounding said first shaft and co-axially arranged thereto, a test gear fixedly mounted on said first shaft, a friction disc fixed to said hollow shaft, a third shaft including respective means in driving connection with said friction disc and said test gear, a frame supporting all said shafts, a recording device mounted on said frame and located remote from said shafts, a stylus adapted to contact said recording device, a lever system establishing operative connection between said first shaft and said stylus, said lever system including a radial lever passing through an enlarged opening of said second and hollow shaft to permit relative displacement thereto, and a bell-crank supported by said second shaft and adapted to transmit rotational differences of angular velocity between said co-axial shafts to said stylus, said lever system including a member aligned with and displaceable in axial direction of said co-axial shafts upon movements of said bell-crank transmitted from said radial lever to said member.

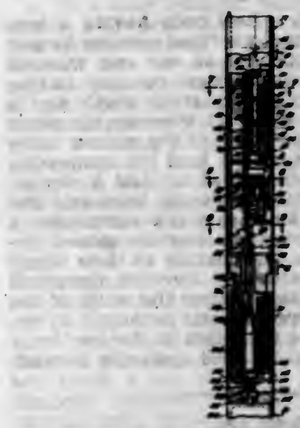
2,656,615
OIL BURNER ELECTRODE GAUGE
William G. Rowell, Quincy, Mass.
Application May 9, 1951, Serial No. 225,318
7 Claims. (Cl. 33—180)

1. An oil burner electrode gauge comprising a nozzle socket adapted to fit over an oil burner nozzle having an orifice therethrough, a member within said socket in axial alignment with the orifice of said nozzle and adapted to limit the movement of said nozzle into said socket, a gauge plate pivoted to said nozzle socket on an axis aligned with said nozzle orifice axis when said nozzle is positioned in said socket whereby regardless of the angular position of said socket with respect to said nozzle said gauge plate may be rotated to vertical position, and markings on at least one face of said gauge plate for assisting



in determining the location of the points of the oil burner igniting electrodes with respect to said orifice, said markings comprising a plurality of parallel lines, all parallel to the said nozzle orifice axis and a plurality of converging lines crossing said parallel lines, said converging lines directed to converge substantially at said nozzle orifice when said nozzle is positioned in said socket.

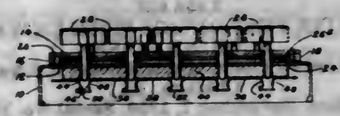
2,656,616
OIL WELL SURVEY INSTRUMENT
John C. Hewitt, Jr., Long Beach, Calif.
Application June 29, 1950, Serial No. 171,209
8 Claims. (Cl. 33—205.5)



1. In an inclinable well surveying instrument comprising an elongated case containing a compass device operable to indicate the direction of the instrument inclination, a compass illumination source, a recorder acting to make successive photographic records of the compass device positions, a motor operating to actuate the recorder at predetermined time intervals, battery means for supplying current to the motor and illumination source, a clockworks mechanism operating to control intermittent actuations of the recorder, and means actuated by the motor for winding said clockworks mechanism.

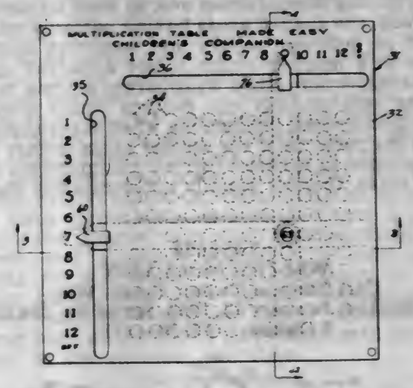
2,656,617
EDUCATIONAL TOY
Frank R. Compesto, Brooklyn, N. Y.
Application December 15, 1950, Serial No. 200,907
9 Claims. (Cl. 35—9)

1. In an educational toy, a card supporting surface, a plurality of cards each provided with a plurality of groups of punched holes comprising each a plurality of holes disposed in a distinctive space pattern representative of a particular indicium and a single aperture uniformly positioned in all the groups, said groups of holes on each card being arranged in a predetermined order to represent a sequence of indicia forming the answer to the problem posed by the particular card and each card being separately positionable on said supporting surface, signalling means including an electric circuit having an electrical conductor provided with a plurality of normally open electrical contact elements in series, each of said contact elements being supported by said surface in registry with the said apertures on said cards, indicia bearing blocks having each projecting therefrom a contact en-



gaging pin receivable in a said aperture and a plurality of code pins disposed in a space pattern corresponding to the group of holes representative of like indicium on said cards and receivable therein, said contact pin being operable to engage and connect said contact elements when said code pins project into said holes, and a withdrawable card-like shield member superimposable over a said card to cover all the holes therein except said apertures whereby said shield may be withdrawn after all the selected blocks have been assembled with their contact pins engaged in said apertures to allow all properly selected blocks to be concurrently seated by their code pins with their contact pins in engagement with and connecting their respective contact elements.

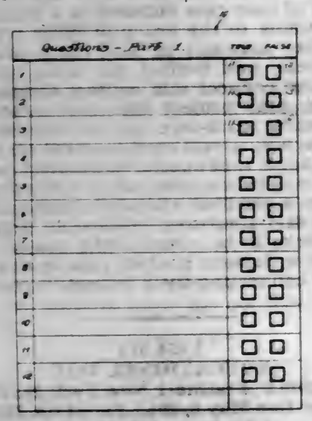
2,656,618
EDUCATIONAL TOY
Igino P. Pescatori, New York, N. Y.
Application May 6, 1952, Serial No. 286,239
4 Claims. (Cl. 35—9)



1. An educational device for teaching multiplication comprising a body having a first group of numerals from "1" to "12" extending in one direction thereon, said body being provided with respective rows of product numerals beginning with the respective numerals of said first group and extending at right angles to the first group of numerals, a second group of numerals from "1" to "12" on said body and extending along the top marginal row of product numerals, respective indicator elements movably mounted on said body, one indicator element extending par-

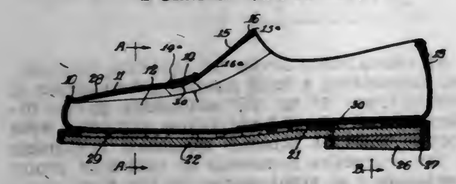
allel to said respective rows of product numerals and the other indicator element extending parallel to said first group of numerals, said indicator elements overlapping each other at right angles, an indicator lamp slidably connected to both indicator elements at the intersection of the indicator elements, a battery, means on the indicator elements slidably connected to the respective electrical terminals of the lamp, and means on the body arranged to electrically connect the indicator elements to the respective terminals of the battery when the indicator elements are positioned respectively adjacent selected numerals of the first and second groups.

2,656,619
OBJECTIVE TEST DEVICE WITH UNIVERSAL SCORING MASK
Thelma Gwinn Thurstone and Louis L. Thurstone, Chicago, Ill.
Application November 7, 1950, Serial No. 194,522
14 Claims. (Cl. 35—48)



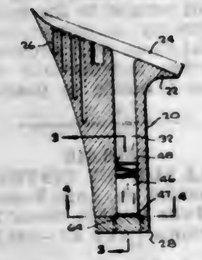
1. An objective test unit, comprising: a test sheet having shaded areas over at least its answer portions, the shaded areas having patterns which differ as between correct and incorrect answer areas in a manner which is not apparent upon visual inspection, and a transparent scoring mask having substantially one pattern which creates light interference phenomena when superimposed upon the patterns of the answer areas to vary the appearance as between correct and incorrect answer areas, thereby visually differentiating them.

2,656,620
WELTED MOCCASIN
Earl Thomas Taylor, Beloit, Wis.
Application January 12, 1953, Serial No. 330,631
2 Claims. (Cl. 36—17)



1. A welted moccasin comprising a moccasin type upper including a vamp and quarter, a toe plug sewn to said vamp and an instep portion comprising flexible resilient leather strips attached to said toe plug, an insole having outer depending flanges having lower edges contacting and coinciding with the lower edges of said upper, a flexible insert within and filling the space within the flanges of said insole, a welt stitched to the lower edges of the upper and to the lower edges of the insole, an outsole stitched to the welt, and a continuous one layer liner stitched to the upper edges of the quarter and to the vamp and the toe plug and covering all of the upper surface of said insole and all of the inner surface of the quarter and vamp portion of said upper.

2,656,621
TOP LIFT ATTACHMENT
Eugene H. Hoffmann, University City, Mo., assignor to Plastic Patents, Incorporated, St. Louis, Mo., a corporation of Missouri
Application February 9, 1951, Serial No. 210,173
2 Claims. (Cl. 36—42)



1. In a shoe heel, a heel body having a base surface on its lower end, a vertical opening formed in said body and opening at one end through said base surface, said vertical opening having an upper part of relatively great width and a relatively narrow lower part whereby shoulders are defined at the upper end of the narrow lower part of said opening, and a heel lift comprising a heel lift body having a flat top and a clip secured to and projecting upwardly from said flat top of the heel lift body, said clip comprising a pair of vertically elongated, laterally spaced, resilient legs, said legs terminating at their upper ends in laterally outwardly directed terminals offset at a greater distance than the width of the lower part of said opening and arranged to expand and engage the shoulders in the heel body opening with the clip inserted upwardly through the opening.

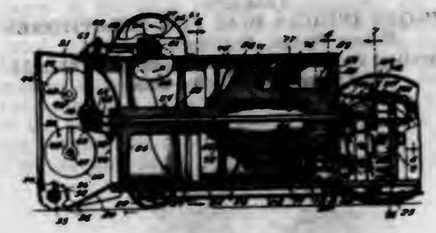
2,656,622
COUNTER CONSTRUCTION AND METHOD
John E. Walsh, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 23, 1947, Serial No. 750,046
3 Claims. (Cl. 36—68)



3. A dry, unheated, normally limp counter stiffener comprising side sections having complementary rear edges, and a tape-like combining piece secured to one of said sections along a line adjacent to the rear edge of the section to cause

the section to assume a cupped shape to assist in positioning the section in the rear part of a shoe upper, said stiffening member comprising a vinyl chloride-vinyl acetate copolymer resin softening in the range of about 150° F. to about 210° F., and 5% to 75% by weight of said resin of polyethylene glycol 200 dimethacrylate, said polyethylene glycol 200 dimethacrylate in its untreated state being compatible with the resin and being convertible by heat to a condition hardening the entire composition to a stiff, resilient state.

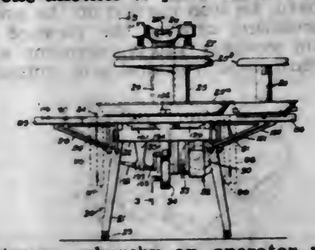
2,656,623
SNOWPLOW
Frank M. Becker, Sinking Spring, Pa.
Application March 15, 1950, Serial No. 149,791
4 Claims. (Cl. 37—12)



4. In a snow removal machine, a base, a pair of side walls projecting upwardly from said base and secured thereto, a hollow housing supported on said base, a cover detachably connected to said housing, a back wall for closing the rear end of said housing, an inclined shovel projecting downwarly from the front end of said housing, a plate arranged in spaced parallel relation with respect to said back wall and coacting with said back wall, base and side walls to define a casing, a horizontally disposed rotary snow and ice cutter arranged above said shovel a pair of horizontally disposed spaced parallel screw members arranged above said ice cutter, a driven shaft extending longitudinally through said housing, a feed screw mounted on said driven shaft for rotation therewith, a drum arranged rearwardly of said feed screw and rotatably mounted on said driven shaft, a plurality of ribs and blades mounted on said drum, a pair of spaced parallel horizontally disposed triturators extending longitudinally through said housing, means for directing the material onto said triturators, and means in said casing for rotating said driven shaft, drum and triturators.

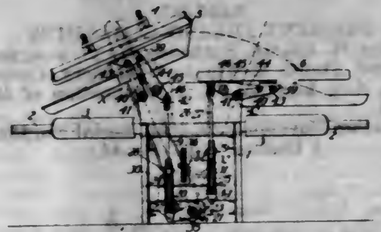
2,656,624
MULTIPLE BUCK PRESS
Leo M. Kahn, Island Park, N. Y.
Original application April 16, 1943, Serial No. 483,230. Divided and this application February 25, 1949, Serial No. 78,250
2 Claims. (Cl. 38—22)

1. In apparatus of the character described, in combination, a U-shaped table support with a U-shaped guide track centrally disposed thereon, said table support and guide track defining an operating station at the base of the U and a loading station adjacent each end of the U, a pressing head secured to said table support and extending over said operating station, a pair of bucks movably mounted on said table support and each having means cooperating with said guide track whereby each may be moved from one of said loading stations to a position on said operating station adjacent said head and back again, and means for relatively moving said head and a buck positioned adjacent said head toward one another to press an article disposed



therebetween, whereby an operator may move either of said bucks between said operating station and a loading station without moving from a position between the legs of the U.

2,656,625
GARMENT AND LIKE PRESSES
Stanley Newbery, New Barnet, England, assignor of one-half to Stanley Newbery Limited, New Barnet, England
Application September 27, 1949, Serial No. 117,968
In Great Britain October 6, 1948
10 Claims. (Cl. 38—22)



1. A garment or like press comprising a supporting structure, a pair of lower bucks movably mounted on said structure and normally disposed in a longitudinally aligned end to end relationship, an upper buck having a pressing surface only on the underside thereof and pivotally mounted about a horizontal axis on said structure to be displaceable in a path containing the vertical plane passing through the longitudinal axes of the lower bucks whereby it can be oscillated to co-operate alternately with each of the lower bucks for pressing purposes, means operating between said structure and said upper buck for oscillating said upper buck about said horizontal axis at relatively short radius on an arcuate path terminating at each end over a lower buck and means operating independently between said structure and each of said lower bucks for alternately displacing each of said lower bucks from their normal dispositions to locate such in a position closely adjacent the upper buck at the end of its arcuate path preparatory to the pressing operation.

2,656,626
IRONING PRESS APPARATUS FOR CLOTHES, TEXTILE FABRICS, OR THE LIKE
Percy James Drain, Roseville, near Sydney, New South Wales, Australia, assignor to George Eldridge Tidbury, Alexandria, near Sydney, New South Wales, Australia
Application October 4, 1951, Serial No. 249,722
In Australia October 25, 1950
27 Claims. (Cl. 38—34)

1. Ironing press apparatus for clothes, textile fabrics or the like having a framing, an ironing

board on the top of the forward portion of said framing, a manually operable actuating arm pivoted to said framing at the rear portion thereof and extending forwardly toward said ironing board, an iron carried on the under side of said actuating arm at the forward portion thereof and movable into engagement with said ironing board, said iron and said ironing board



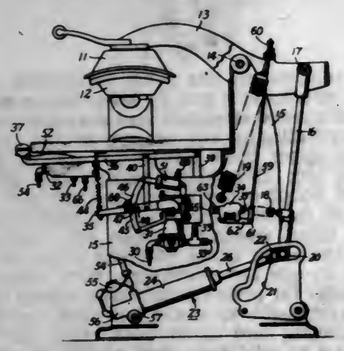
being pivotally movable at least one with respect to the other, the axes of both of said pivots being parallel to each other and perpendicular to a forwardly and rearwardly extending vertical plane, and biasing means yieldingly acting to bring the forward edge of said iron into engagement with said ironing board before the rear edge of said iron comes into engagement therewith.

2,656,627

GARMENT PRESSING MACHINE

Clarence M. Clarke, Syracuse, N. Y., assignor to United States Hoffman Machinery Corporation, New York, N. Y., a corporation of Delaware

Application November 29, 1949, Serial No. 130,030
7 Claims. (Cl. 38—41)



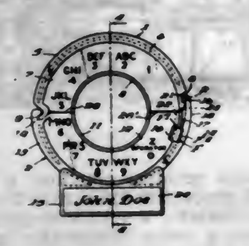
1. In a garment press having cooperative pressing elements comprising a garment supporting buck and a relatively movable head carried by a yoke pivotally mounted with respect to said buck, in combination, a single cylinder fluid actuated motor having a reciprocating piston, motion transmitting mechanism comprising a cam follower and a link cooperatively connected with said piston and yoke to effect the closing of said elements, said piston being movable in two distinct stages under different degrees of fluid pressure, first to close said elements to a predetermined nearness and then to complete the movement thereof to apply heavy pressure to a treated garment, a normally closed and manually operable intake valve for said motor adapted to be locked by fluid pressure in open condition, a source of compressed air or other pressure fluid, pressure control mechanism including a regulating valve normally conditioned to supply fluid from said source to said intake valve at a predetermined reduced pressure to close the press to said predetermined point, a normally closed locking valve connected to transmit fluid between said source and said intake valve and operably associated with said regulating valve and said intake valve and means operatively associated with said motion transmitting mechanism and operable in response to said near approach of said elements to effect operation of said locking valve to cause the intake valve to lock in open position, normally inoperable manual adjusting means for said pressure control valve and means rendering said adjusting means operable after the operation of said locking means to supply fluid at a selected higher pressure to said intake valve and motor, whereby the final closing of the press is accomplished under heavy pressure.

2,656,628

LUMINOUS INDICIA DIAL FOR TELEPHONES

Harry Ravin, Burbank, Calif.

Application February 17, 1951, Serial No. 211,451
8 Claims. (Cl. 40—10.5)



6. A luminous dial indicia means for dial type telephone instruments comprising a pair of semicircular, axially thin components interengageable to form a flat, split ring element for installation beneath the selector dial of the instrument and having luminous indicia observable through the finger holes of the selector dial; one of said components at one end thereof having an integral tongue portion extending diagonally outwardly beyond said end and having a notch in its outer edge adjacent the other end thereof and the other of said components having a notch in an end thereof engageable with said tongue and at its other end having an integrally formed resilient latch member extending beyond said other end and terminating in a detent yieldable to ride up over said outer edge of said one component and to enter said notch in said outer edge of said one component; a portion of said latch element being laterally spaced from the edge of said other component with resultant formation of a finger stop hook receiving recess; the engagement of said recess with the finger stop hook serving to secure said indicia means against rotation on the instrument.

2,656,629

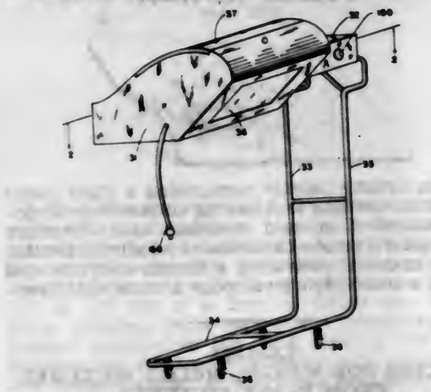
MECHANISM FOR TURNING THE PAGES OF A BOOK

Mirko Romaniuk, Cleveland, Ohio

Application September 16, 1949, Serial No. 116,098
14 Claims. (Cl. 40—104)

1. Mechanism for turning the pages of a book comprising, book-holding means for holding the book and having a surface upon which the back covers of the open book rest, means for swingably mounting the book-holding means, cyclic actuating means including means to start the cyclic movement for swinging the book-holding means through a recurrent cycle beginning at a

first position and advancing in one direction through a second, third, fourth, fifth, sixth, and seventh position to an eighth position and then in an opposite direction through ninth, tenth and eleventh position back to said first position, said first to said eighth position embracing the first half-cycle and said eighth to said first position embracing the second half-cycle, said second, third, fourth, fifth, sixth and seventh positions being spaced apart in said first half cycle between said first position and said eighth position, said ninth, tenth, eleventh positions being spaced apart in said second one-half cycle between said eighth position and said first position, socket means carried by opposite sides of the book-holding means, a top transversely extending element having end portions releasably carried by the socket means and extending across the top part of the book-holding means in the region embracing the top portion of the open pages of the book to aid in confining the book on said book-holding means with the pages open, catch means to hold the end portions of the top transversely extending element in said socket means, a bottom transversely extending element for releasably extending across the bottom part of the book-holding means in the region embracing the bottom portion of the open pages of the book, spring means for urging the bottom trans-



versely extending element in a direction toward the bottom portion of the open pages of the book to aid in confining said book on said book-holding means with said pages open, suction orifice means located on said book-holding means and positioned at a distance away from the face of the top one of the turnable pages of the book, suction creating means connected in communication wtih said suction orifice means, means responsive to movement of said book-holding means between said second and said seventh position to operate said suction creating means and draw air through said suction orifice means to lift the top one of the turnable pages up against said suction orifice means, finger means carried by the bottom of the book-holding means and spaced adjacent to an inward side of the suction orifice means for depressingly engaging the bottom portion of the lifted page between the center of the book and the suction orifice means, means responsive to the movement of said book-holding means between said third and seventh positions to depress said finger means against the bottom portion of the lifted page between the center of the book and the suction orifice means, thereby bending said bottom portion of the lifted page away from the suction orifice means and insuring separation of the lifted page from the next adjacent turnable page, means responsive to the movement of said book-holding means between said fourth and ninth positions for lifting said bottom transversely extending element to a raised position in a direction away from the bottom portion of the open pages of the book and thereby providing clearance space for the top turnable page to be turned, means responsive to the movement of said book-holding means in the region of said fifth position for operating the catch means to releasably permit removal of said top transversely extending means from said socket means, hook means stationarily positioned in the region of the fifth position on opposite sides of the path of the swinging book-holding means for intercepting the end portions of the top transversely extending means as said book-holding means moves by said fifth position, said hook means stationarily supporting said transversely extending means as continued movement of said book-holding means from said fifth to eighth positions carries the top portion of the open pages of the book away from the stationarily supported top transversely extending element to provide clearance space for the turnable page to be turned, page-turning means comprising a laterally movable element positioned to one side of the path of the book-holding means, means coordinated movement of said book-holding means in the region of said sixth position to initiate lateral movement of said page-turning means in between the top turnable page and the next adjacent page, means responsive to continued movement of the book holding means between said sixth and eighth positions to actuate the page turning means across the face of the book to completely turn the turnable page in the region of said eighth position, means responsive to the movement of said book-holding means between the said eighth and tenth positions to laterally withdraw said page-turning means from the turned page of said book and back to said one side of said book-holding means, means responsive to the movement of said book-holding means in the region of said ninth position to release said bottom transversely extending element from its raised position and permit said spring means to urge the bottom transversely extending element to its original position across the bottom portion of the book to aid in confining the book on the book-holding means, said socket means upon the return movement of the book-holding means in the region of the eleventh position re-engaging the top transversely extending element and removing same from the hook means, said catch means in response to movement of the book-holding means in the region of the eleventh position relatching the top transversely extending element and holding same across the face of the top portion of the pages of the book to aid in confining the book on the book-holding means, and means responsive to the return movement of the book-holding means to said first position for arresting the operation of the cyclic actuating means.

2,656,630

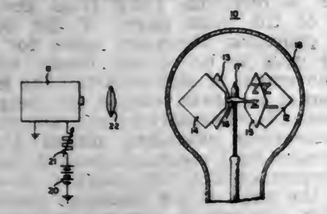
ADVERTISING DEVICE

Eugene F. McDonald, Jr., Chicago, Ill.

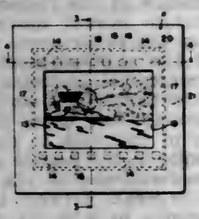
Application May 20, 1950, Serial No. 163,287
2 Claims. (Cl. 40—125)

1. In an article of the class described: a radiometer comprising a plurality of vanes, each having a radiant-energy reflecting surface and a radiant-energy-absorbing surface opposite said reflecting surface, similarly supported in a rarefied atmosphere for rotation about a common

axis in response to incidence of radiant energy upon said vanes; and indicia of luminescent material inscribed on said vanes to provide the effect of a continuous image in response to rotation of said vanes about said axis, said luminescent material being of substantially the same color as the vane surfaces on which it is deposited.



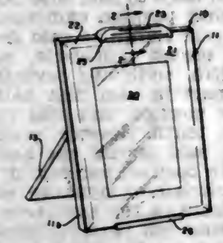
2,656,631
FILM MOUNT SLIDE
Clarence J. Cadwell, Carpinteria, and Frank M. Adamson, Los Angeles, Calif., assignors to The Cadwell Corporation, Beverly Hills, Calif., a corporation of California
Application May 16, 1949, Serial No. 93,582
1 Claim. (Cl. 40—156)



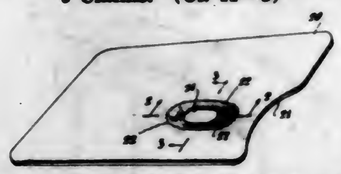
In a stereopticon film mount slide, a cover frame in the form of an elongated flat pair of longitudinally spaced rectangular members having rectangular openings therein and a larger similarly shaped recess formed in its inner surface and uniformly bounding each of said openings, said recesses each being of a size to seat a picture section of a length of a motion picture film for the exposure of the picture through the complemental opening, a back frame of the same size and shape as that of the cover frame and having openings therein adapted to register with the first openings when the two frames are disposed in abutting relation, depressed portions, constituting lugs to engage in certain of the sprocket apertures of the said picture sections, formed inwardly of the back frame in spaced relation adjacent to and along the top and bottom edges of the said openings therein, said lugs having a height equal to the thickness of the said picture sections, and a cementitious coating between the contacting surfaces of the frames for securing the same in assembly with the picture sections.

2,656,632
PICTURE FRAME
Henry Detje, Denver, Colo.
Application June 30, 1950, Serial No. 171,513
3 Claims. (Cl. 40—156)

3. A picture frame provided with means for holding it in upright position and comprising a surrounding frame member, a backing plate within said frame member, means carried by said frame member for engaging a transparent panel member associated with the surrounding frame member, and movable means also carried by said frame member at an opposite side thereof for engagement with said transparent panel member to removably support the transparent panel member in position with relation to the frame member, said frame member and said movable means having cooperating slots and pins to permit said movable means to be shifted simultaneously in longitudinal and transverse directions relative to said surrounding frame member.



2,656,633
ARTIST'S PALETTE
George Bergen, Greendale-on-Hudson, N. Y.
Application November 13, 1950, Serial No. 195,338
9 Claims. (Cl. 41—5)



8. An artist's palette comprising a rigid panel having an opening and having thumb-hole structure mounted in said opening, said structure comprising a molded annulus of relatively flexible plastic material providing a thumb aperture and having a smoothly curved edge around said aperture.

2,656,634
PROCESS FOR MAKING RELIEF PICTURES FROM PLANE PICTURES
Odette M. Varner, Vicksburg, Miss.
Application August 21, 1950, Serial No. 180,624
2 Claims. (Cl. 41—25)



1. A process for making pictures in relief from planar photographs on thin or thinned out paper, consisting in tracing on the back of the picture made of thin paper, the lines and areas to be raised and those to remain despressed, in placing the picture face downward on a work plate and in applying a molding composition in an easily moldable state which is capable of hardening, in molding the back surface so as to roughly reproduce the raised and depressed areas of the picture, by covering the raised portions of the picture with a thicker layer of molding material than the depressed portions, the difference corresponding approximately to that to be obtained in the finished picture, in applying an adhesive paste on the entire surface covered with moldable material, in placing the paper picture carrying on its back the molding composition covered with the adhesive paste face up on a plaque, so that the adhesive adheres to the plaque, in bringing the depressed portions manually into contact with the plaque so that the entire back surface now lies in the plane of the plaque, thus producing depressions and raised areas on the thin paper sheet, in manually shaping the fine features of the picture by applying a tool on the front, in pressing the edges of the paper carrying the picture on the plaque so that they adhere to the same around the entire contour, in applying a layer of shellac, and further applying a layer of varnish covering the entire surface including the edges and also including adjacent parts and in drying the relief at room temperature.

2,656,635
CARTRIDGE RETRACTING DEVICE
Charles H. Stevens, Springfield, and Karl W. Maier, Feeding Hills, Mass., assignors to the United States of America as represented by the Secretary of the Army
Application May 22, 1951, Serial No. 227,584
3 Claims. (Cl. 42—68)
(Granted under Title 35, U. S. Code (1952), sec. 266)



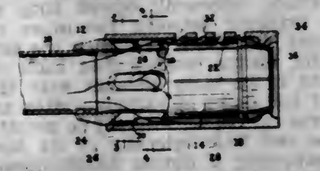
2. In a firearm having a revolving drum provided with a plurality of annularly disposed firing chambers and means for sequentially loading cartridges therein, the combination of, a retracting plunger having a groove therein for receiving the rim of a fired cartridge case as the drum revolves, cam means for retracting said plunger relative to the rear face of the drum whereby the fired case is loosened in its respective firing chamber, an extractor, means for guiding said loosened cartridge case out of engagement with said plunger and into position for engagement by said extractor, and means for actuating said extractor to completely withdraw the loosened cartridge case for its firing chamber in the drum.

2,656,636
FIRING MECHANISM FOR FIREARMS
Samuel G. Green, Gray, Ga.
Application October 25, 1950, Serial No. 192,100
1 Claim. (Cl. 42—69)
(Granted under Title 35, U. S. Code (1952), sec. 266)



In an automatic firearm, a bolt reciprocable therein between recoil and battery positions, there being an elongated horizontal stepped bore formed in said bolt and comprising a short forward enlarged portion, an elongated medial portion of reduced diameter, and a rear enlarged portion, a firing pin and plunger mechanism reciprocable in said horizontal bore and comprising, a floating striker slidable in said forward enlarged bore portion, said striker including a main body portion providing a sliding fit with the wall of said forward enlarged portion, and a forward reduced portion forming a firing pin, means in said forward enlarged bore limiting the forward movement of said striker in counter-recoil to provide a predetermined protrusion of said firing pin beyond the forward wall of said bolt when said gun is fired, resilient means cooperating with said forward movement limiting means to normally urge said striker into retracted position with the forward end of said firing pin flush with the forward wall of said bolt, said striker being limited in rearward movement to an extent slightly in excess of said predetermined protrusion by the shoulder formed by said forward enlarged bore portion and said medial reduced bore portion, an elongated tubular plunger reciprocable in said medial reduced portion for positive engagement with said striker, a flanged enlargement on the rear end of said plunger, said enlargement slidably engaging said enlarged rear bore portion, said enlargement also adapted to abut the shoulder between said enlarged rear bore portion and said medial bore portion when said gun is fired to limit the forward travel of said plunger, a hollow sleeve in said enlarged rear bore portion integral with said enlargement, a helical spring in said hollow sleeve having its forward end engaging said enlargement and its rear end abutting a stop member integral with said bolt, said helical spring being compressed by the rearward movement of said bolt, whereby on release of said bolt said spring drives said plunger forward to propel said firing pin into contact with the primer of a propellent cartridge.

2,656,637
SHOT PATTERNING RECOIL COMPENSATOR FOR FIREARMS
Kenneth D. Richards, Gardner, Mass.
Application February 5, 1948, Serial No. 6,437
12 Claims. (Cl. 42—79)

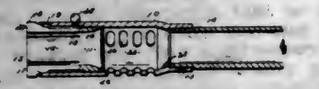


10. A gun muzzle device comprising a shot passing choke tube having a longitudinally slit constrictable portion, a tubular cage disposed about said choke tube and having a portion spaced therefrom to form a gas passage between the tube and cage, said choke tube containing aperture means near the rear of said slit portion through which gases are vented into said passage upon firing, gas outlet means in the wall of the cage leading from said passage to the atmosphere, and means carried by said cage for engaging and variably constricting said slit portion of the choke tube.

2,656,638
SHOTGUN CHOKE
William F. Cobb, Utica, N. Y.
Application April 5, 1950, Serial No. 154,151
3 Claims. (Cl. 42—79)

1. A shotgun choke structure comprising an outer sleeve adapted to be secured to the muzzle

of a shotgun barrel and being internally threaded intermediate its ends, a shot pattern control sleeve positioned in the forward end of said outer sleeve, said pattern control sleeve having its forward portion formed with yieldingly contractile segments extending outwardly from the forward end of said outer sleeve, said pattern control sleeve having its rear portion formed for thread-



ed engagement with the outer sleeve, the forward end of said outer sleeve being formed with a conical bore and the forward end portions of said segments contiguous to said conical bore having inclined surfaces complemental to said conical bore and being cooperable to contract said segments when the pattern sleeve is threaded into said outer sleeve.

2,656,639
REEL SEAT
Philip W. Phillipson, Denver, Colo.
Application November 18, 1950, Serial No. 196,438
1 Claim. (Cl. 43—22)



In a reel seat of generally tubular character having spacedly-paired, similar strip areas of uniform width transversely disposed in a common chordal plane as shoulders engageable by outer edge margins of certain conventional, transversely-arcuate reel bases, and a transversely-arcuate, outwardly-bowed strip element integrally bridging between the inner margins of said areas in a width exceeding the combined area widths, means conditioning such seat for engagement of its strip element with the edge margins of reel bases of various widths and arcs of transverse curvature, whereby to obviate rocking of the reel base laterally of its seat, said means comprising a fluting longitudinally and centrally interrupting the outward bow of said strip element to constitute the latter as a pair of parallel, juxtaposed, like, convex ribs similarly projecting outwardly beyond the strip area plane within the transverse circular outline of the assembly.

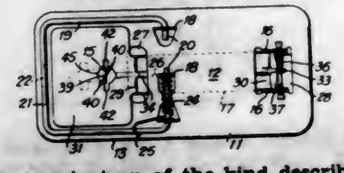
2,656,640
LIVE BAIT CONTAINER
Edwin L. Johnson, Ottawa, Kans., and Emory J. Scofield, Cabimas, Estado Zulia, Venezuela
Application March 17, 1952, Serial No. 277,053
4 Claims. (Cl. 43—56)

1. A live bait receptacle comprising, an outer container, a closed perforate container, said perforate container being located in the outer container, spaced brackets on the perforate container spacing the same from the walls of the outer container, hooks on the top rim of the outer container, and resilient means secured to the perforate container and engaging the hooks on the outer container for retaining the containers together and said resilient means being adapted to



permit the immersion of the receptacle in the water.

2,656,641
VERMIN-TRAP
George Francis John Dandridge, Loughton, England
Application November 14, 1949, Serial No. 127,028
In Great Britain January 27, 1949
2 Claims. (Cl. 43—83)

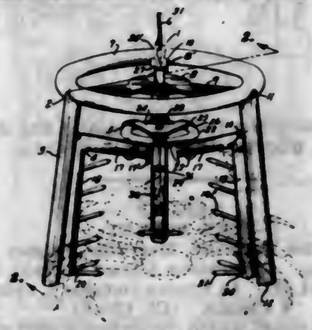


1. A vermin-trap of the kind described, comprising in combination a base, a spring-urged striking member, a pivotally mounted catch including an abutment normally engaging and holding back said striking member, a depressible member for the release of said catch, a lever extending along said base and connecting said depressible member to said catch, a stationary bait-support integral with said base, said bait-support including a central spike and two oppositely-directed arms, said depressible member having a slot through which said bait-support extends upwardly, said bait-support spike having a twisted portion to position said arms obliquely of and across said slot so that the arms engage the portions of the depressible member adjacent the slot after being passed up therethrough, and spring means for normally causing said lever to lift said depressible member and bring said catch to the engaged position of said abutment for holding back said striking member, said bait-support arms limiting the lift of said depressible member and the pivotal movement of said catch, and said catch also including a surface overridden by said striking member in the setting of the trap for rocking said catch from its position limited by said bait-support arms against the action of said spring means prior to the engagement of said abutment with said striking member.

2,656,642
LOBSTER AND CRAB CATCHER
John H. Richa, Kansas City, Mo.
Application August 18, 1951, Serial No. 242,457
8 Claims. (Cl. 43—100)

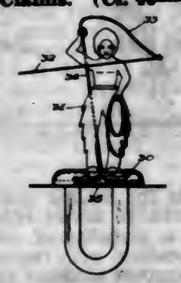
1. A crustacean catcher comprising, a frame including a plurality of spaced legs adapted to

rest on the bottom of an area to be fished and the spaced legs providing a plurality of openings for entrance of crustaceans, a plurality of jaws hingedly mounted on the frame between said legs and the center of the catcher for swinging movement toward the center of the catcher, actuating means engaging the jaws for effecting swinging movement thereof, vertically movable means extending through the center of the frame and having a bait carrying device on the lower end thereof, means on said vertically movable means engageable with the frame for limiting downward movement of the bait holder, and



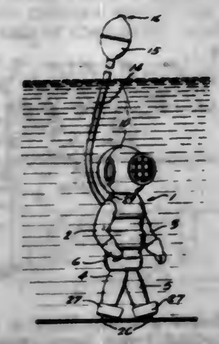
means on said vertically movable means engageable with the actuating means for effecting swinging movement of the jaws in response to upward movement of the vertically movable means, said means on the vertically movable means engageable with the frame for limiting downward movement of the bait holder and the means on the vertically movable means engageable with the actuating means being spaced so that they may be out of engagement when the frame is resting on the bottom of the area, whereby the crustacean attacking the bait will cause movement on the vertically movable means detectable by the user holding the line.

2,656,643
FIGURE TOY WITH SPINNING ELEMENT
Mary A. Bronsett, Chicago, Ill.
Application August 26, 1949, Serial No. 112,523
3 Claims. (Cl. 46—47)



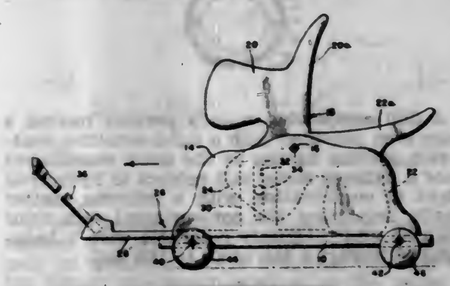
1. A toy designed to be drawn over a surface comprising a figure maintained in a position substantially perpendicular to the surface and formed with a base slidable thereover, a rotary spindle freely journaled in the figure at an angle out-of-perpendicular to said surface, the end portion of the spindle remote from the latter carrying a unit simulating a familiar spinning activity when the spindle is in rotation, and the opposite end portion of the spindle carrying a circular unit centered on the spindle and deriving rotation by peripheral frictional engagement with said surface as the toy is drawn thereover.

2,656,644
WALKING SUBMERSIBLE TOY
David B. Wittry, Green Bay, Wis.
Application April 15, 1950, Serial No. 156,120
9 Claims. (Cl. 46—92)



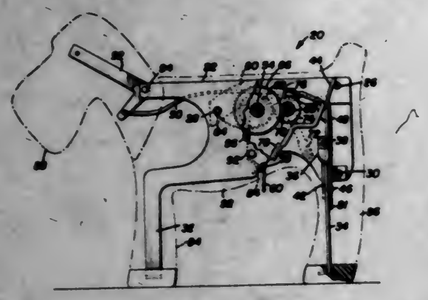
1. A submersible toy diver comprising a hollow body, a pair of leg members hinged to the lower end of said body side by side, a separate diaphragm in an opening in the bottom wall of the body disposed adjacent the hinge of each leg with the hinge of one leg disposed forwardly of the corresponding diaphragm and the hinge of the other leg disposed rearwardly of the corresponding diaphragm, means connecting each diaphragm with the corresponding leg to actuate the same upon its hinge in response to movements of the diaphragm, and means to effect alternate cycles of pressure change within said body whereby both of said diaphragms are cyclically moved in and out to effect action of the legs in opposite directions simulating a walking movement therefor.

2,656,645
ROCKABLE WHEELED FIGURE TOY
Bernard Goldfarb, Skokie, Ill.
Application August 30, 1951, Serial No. 244,332
3 Claims. (Cl. 46—107)



1. A toy comprising a base member and side walls, wheels on said base, a rockable member pivotally mounted between said side walls, said rockable member bearing two oppositely positioned heads arranged substantially symmetrically relative to the pivotal axis thereof, a slidable member arranged for straight linear movement in alternate directions and engageable with said rockable member to move the same to present alternately to view one of said heads, and means connected to said slideable member for pulling and/or pushing said toy and simultaneously to position one of the heads in a forward direction if said toy is pulled and to position the other head in a forward direction if the toy is pushed.

2,656,646
ANIMATED JUMPING TOY
Ewell F. Wideman, Wetumpka, Ala.
Application January 9, 1952, Serial No. 265,579
4 Claims. (Cl. 46—134)



1. An animated toy comprising a hollow body and a pair of rigid front legs thereon, a rear leg unit pivoted to said body and swingable from a downwardly extended standing position to a forwardly extended sitting position, resilient means for urging said rear leg unit to the standing position, power driven means provided in said body and connected to the rear leg unit for drawing the rear leg unit to the sitting position against the action of said resilient means, and means for automatically disconnecting said power driven means from the rear leg unit when the latter is drawn to the sitting position.

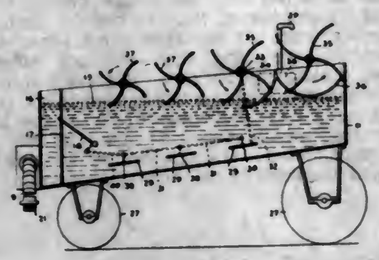
2,656,647
DOLL OR THE LIKE
William J. Schepp, East Paterson, N. J., assignor to Daniel G. Kennedy, Rochester, J. Lawrence Kennedy, Elmira, and Sherman Farnham, Brighton, N. Y.
Application February 14, 1951, Serial No. 210,882
5 Claims. (Cl. 46—156)



3. A doll comprising a body portion having a surface area provided with a light-sensitive coating, said coating having as the main constituent thereof a halogen metal salt subject to hydrolysis by light in combination with a coloring matter normally imparting the conventional skin color to the doll and reversibly reactable with a halogen gas to impart a tan color to the doll.

2,656,648
MEANS FOR TRANSPORTING AND DISTRIBUTING FERTILIZERS ON FIELDS
Giovanni Friedmann, Milan, Italy
Application February 16, 1948, Serial No. 8,718
In Italy January 28, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires January 28, 1962
3 Claims. (Cl. 47—1)

1. A transportable device for introducing animal fertilizing material into a piping which piping is provided with a couple of hydrants with a valve between said hydrants, such device including a tank, agitating means in said tank capable of well mixing stable manure with water, an injector the suction pipe of which communicates with the interior of said tank and tubes

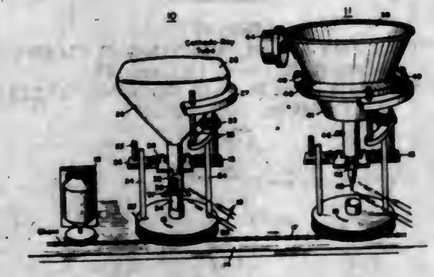


for connecting the feeding end and the delivery end of the injector with said hydrants.

2,656,649
SEED PELLET
Marius H. Ostier, Mereville, France
No Drawing. Application August 13, 1951, Serial No. 241,691. In France October 2, 1946
4 Claims. (Cl. 47—1)

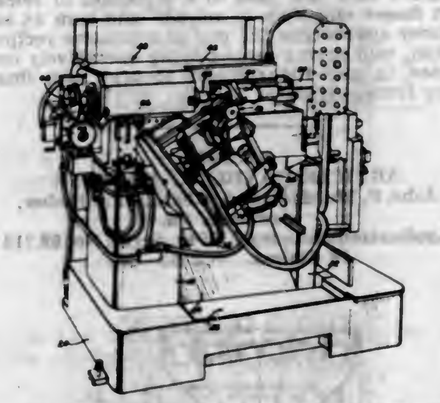
1. A seed pellet which comprises a seed encased in a body of a water-permeable binder adapted to be swollen by water, said body containing particles of cork disseminated at least in its outer portion.

2,656,650
SEALING APPARATUS
John F. De Ane, Melrose Park, Ill., assignor to The Rauland Corporation, a corporation of Illinois
Application November 20, 1951, Serial No. 257,394
8 Claims. (Cl. 49—2)



6. In apparatus for sealing electrode systems into electron-discharge device envelopes, of the type comprising a plurality of rotatable work-holders in juxtaposition with respective localized heat sources: a support member generally simulating one of said envelopes in physical configuration; a temperature-indicating device mounted on said support member; a thermocouple operatively connected to said temperature-indicating device and adjustably fixed to said support member in a position to register the heat-treating temperature of said localized heat source when said support member is installed in one of said work-holders; and friction coupling means between said work-holder and said support member to permit arrestment of rotation of said support member independently of rotation of the remainder of said work-holders.

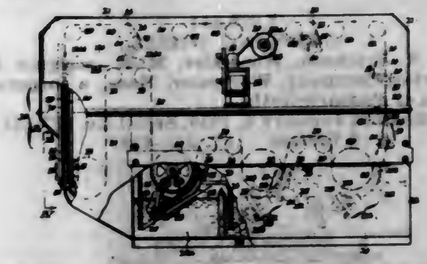
2,656,651
ABRADING MACHINE
Harold N. Seyferth, East Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application October 10, 1950, Serial No. 189,372
13 Claims. (Cl. 51—101)



1. In a machine for operating on workpieces having complex curved surfaces of revolution, in combination, a base, a slide mounted on said base, a driven abrasive tool carried by said slide, a frame supported on said base for pivotal movement about an axis disposed at one side of said tool and for linear translation along said axis, work holding means on said frame spaced from its pivotal axis so as to present a held workpiece to the tool when the frame is rocked in one direction to an operating position, a cam supported on said frame in axial alinement with the workpiece, said cam having a surface of revolution derived from a pattern exhibiting the contour to be reproduced on the workpiece, a cam follower on said base engageable by said cam, said cam and follower coacting to vary the position of the workpiece relative to said tool in accordance with said contour, means for rotating said work holding means and said cam in synchronism, a pressure fluid operated actuator adapted when fluid is supplied thereto to rock said frame from operating position to retracted position, said frame returning to operated position by gravity upon exhaust of fluid from the actuator, valve mechanism controlling the supply and exhaust of fluid to and from said actuator, said mechanism including a metering valve operative to control the exhaust of fluid from the actuator and thereby regulate the speed of movement of the frame toward operating position, and a check valve operative to establish a bypass around said metering valve and permit rapid movement of the frame toward retracted position.

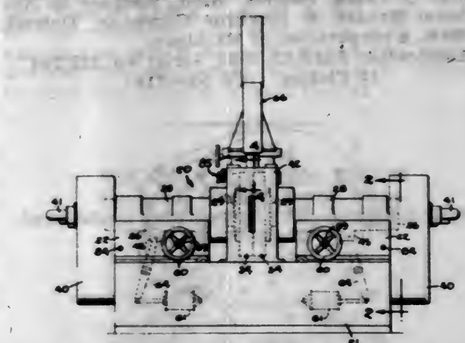
2,656,652
APPARATUS FOR TREATMENT WITH LIQUIDS
Thomas J. Kearney and Floyd E. McGregor, Detroit, Mich., assignors to Detrex Corporation, Detroit, Mich., a corporation of Michigan
Application September 24, 1948, Serial No. 51,016
18 Claims. (Cl. 51—164)

1. In apparatus for treatment with liquids, a well containing treating liquid; a conveyor movable over the well; a carrier with an arm pivotally suspended from the conveyor, and with a holder for articles to be treated rotatively supported by the arm; an under-traveled wheel by which the conveyor is diverted downwardly into the well for immersion of the holder in the liquid; a stationary segmental track with fixedly spaced parallel upper and lower rails beneath the wheel and inclined upwardly in the direction of wheel rotation, the lower rail extending beyond the upper rail at the entrant end of the track; a roller on the pivot axis of the holder; and control means



including a restraining element fulcrumed on a transverse axis above the track and adapted to be actuated by the roller as the carrier is lowered into the trough to ease approach of the roller to the extended portion of the lower track rail and for guiding the roller beneath the upper track rail; and means whereby the holder is rotated as it continues its travel along the track while submerged in the liquid.

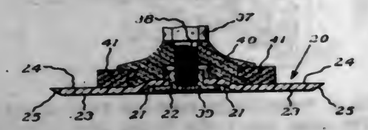
2,656,653
GRINDING MACHINE WITH WHEEL SURFACE POSITION INDICATOR
Ralph D. Gardner, Roscoe, Ill., assignor to Gardner Machine Company, South Beloit, Ill., a corporation of Illinois
Application December 16, 1950, Serial No. 201,081
12 Claims. (Cl. 51—165)



1. A grinding machine comprising, in combination, a base, a work support on said base, a pair of grinding heads mounted on said base for linear movement relative to the same and to said work support, a pair of abrasive wheels each journaled in a respective one of said grinding heads, each said wheel respectively having an individual grinding face thereon adjacent said work support, means including an adjustable stop interposed between each said grinding head and said base for positioning said individual grinding faces relative to said work support, means for normally biasing said grinding heads toward said work support and for alternatively retracting said heads from said support, a detector supported on said base and having a relatively flat resilient finger disposed in the path of said grinding faces for interception thereof in response to movement of said grinding heads by said adjustable stop means, said

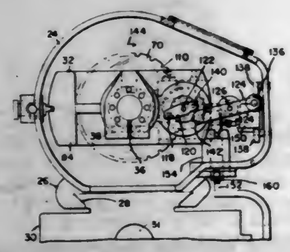
finger being adapted to sense arrival of said grinding faces into predetermined positions relative to said work support, and means including a perceptible signal device connected to said detector, said signal device being susceptible of producing a perceptible signal in response to impulses from said finger.

2,656,654
GRINDING WHEEL
John R. Erickson, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application January 6, 1950, Serial No. 137,245
4 Claims. (Cl. 51—195)



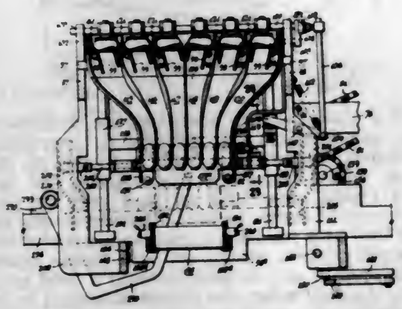
1. A grinding wheel comprising a disc with an offset hub and a central hole centrally located in the hub and in the disc, said disc being made of abrasive grains bonded with a matured phenol-formaldehyde resinoid, and said disc containing at least one reinforcement of woven glass cloth and containing at least one reinforcement of nylon leno cloth, the glass cloth and the nylon leno cloth extending from the hub to close to the periphery of the disc and the nylon leno cloth being closely adjacent to that side of the disc towards which the hub is offset.

2,656,655
GRINDER
Walter S. Praeg, Detroit, Mich., assignor to National Broach & Machine Company, Detroit, Mich., a corporation of Michigan
Application April 23, 1951, Serial No. 222,304
17 Claims. (Cl. 51—216)



10. A grinder comprising a grinding wheel, a rotary work support, means for effecting relative reciprocation between said wheel and work support in a direction parallel to the axis of said work support, lead control means for controlling the rotational position of said work support during said relative reciprocation, index mechanism intermediate said lead control means and said work support, said index mechanism comprising an index plate having peripheral notches, an index finger receivable in said notches, oppositely acting spring actuated cam means and spring means operated automatically by said relative reciprocation for sequentially withdrawing said finger from a notch and for thereafter moving said finger toward the periphery of said index plate for engagement with a different notch, and brake means for arresting rotation of said work support as soon as said finger is withdrawn from a notch of said plate; said cam means comprising a first cam carried by said work support shaped to press said finger toward said plate, a spring continuously urging said cam in a direction to cam said finger toward said plate, and means comprising an abutment effective sequentially to move said first cam in a direction to release said finger and then to release said cam as said grinder approaches the end of a relative reciprocation, said spring means being operatively connected to said index finger to urge said finger away from said plate.

2,656,656
ARTICLE HANDLING MACHINE
John P. Murdoch and Albert J. Faulhaber, Ardmore, Pa.
Application January 7, 1949, Serial No. 69,714
14 Claims. (Cl. 53—35)

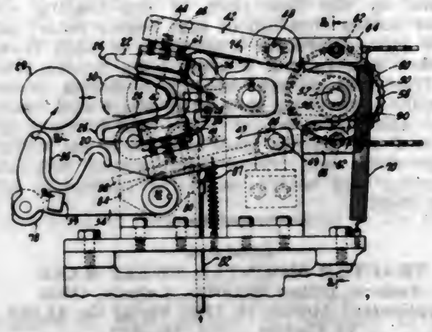


1. In article handling machinery, a frame, a plurality of doors mounted on said frame, said doors being arranged in spaced relation to each other and adapted to swing from a normally horizontal position, means for supplying articles to said doors when horizontally disposed, a chute associated with each door and adapted to receive one or more articles from the doors and to retain said articles in an upended position, a retaining member spaced from each door and secured thereto, said doors being positioned to receive the articles between the door and the retaining member for positively turning the articles received by the doors from a horizontal position to a vertical position as the doors and articles swing through an arc of substantially 90°, means for swinging said doors, and means at the bottoms of said chutes for collectively removing the upended articles therefrom.

2,656,657
WRAPPING AND SEALING MACHINE
George R. Bartle, Metuchen, N. J., assignor to Johnson & Johnson, a corporation of New Jersey
Application December 18, 1947, Serial No. 792,360
7 Claims. (Cl. 53—45)

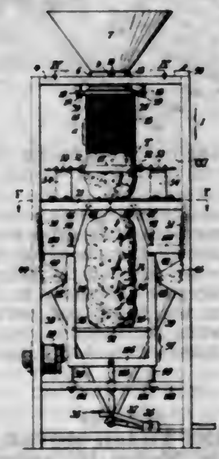
1. Apparatus of the class described comprising in combination a support for a generally cylindrical article, a set of gathering and folding means adjacent the position of each end of the article when supported on said support, each set including a pair of stationary convergent surfaces and a pair of movable convergent surfaces the stationary and movable convergent surfaces being on opposite sides of and facing the axis of the article, and means for simultaneously moving both sets of movable surfaces to form with

the stationary surfaces a pair of perimeters substantially smaller than the perimeter of said



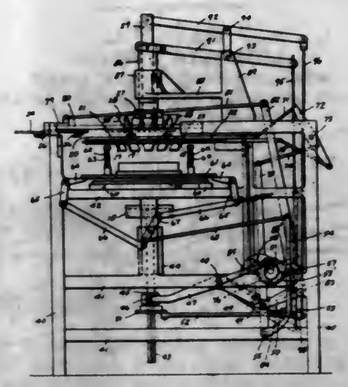
article and approximately centered on the axis of the article when on the support.

2,656,658
BAGMAKING AND FILLING MACHINE
John P. Grady, Narberth, Pa.
Application February 7, 1951, Serial No. 209,813
16 Claims. (Cl. 53—94)



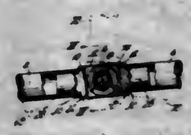
1. In a bag making machine, two opposing relatively reciprocated crimping elements for laterally contracting intermittently-advanced thermoplastic tubing at lengthwise intervals, said elements having complemental bights and narrow constraining notches centrally of said bights, operative upon relative approach at each actuation, to progressively gather in the material of the tubing circumferentially into a relatively short axial constriction within a small opening jointly formed by the notches at the completion of the inward movement of said elements; and means for sealing the tube material in the constriction while constrained within said opening, spring means for urging the crimping elements toward each other to closed or clamping position; means for imparting additional inward movement to the crimping elements after each closure by the spring means to more tightly compress the constriction; and means for retracting the crimping elements against spring resistance after severance of the constriction by the sealing means.

2,656,659
BULK PAPER PLATE WRAPPING MACHINE
John Buechek, Indianapolis, Ind., assignor to Paper Art Company, Inc., Indianapolis, Ind., a corporation
Application December 26, 1950, Serial No. 202,799
7 Claims. (Cl. 53—122)



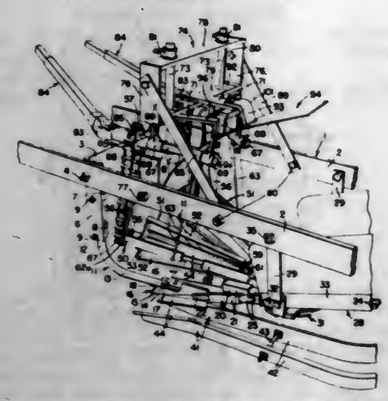
1. A machine for packaging substantially flat topped articles comprising in combination a pleater having an opening therethrough and having a plurality of radial slots extending outwardly therefrom, a vertically movable table movable through said pleater to a receiving position above said pleater, means for depositing a wrapping sheet of greater dimension than the article to be packaged from said table in a position above said pleater, and a radially finned head having its fins coinciding with said radial slots and engaging the article to be packaged and movable downwardly with said table as it descends through the opening in said pleater.

2,656,660
FLEXIBLE HARROW HITCH
George E. Garey, Downs, Kans.
Application February 15, 1949, Serial No. 76,449
2 Claims. (Cl. 55—84)



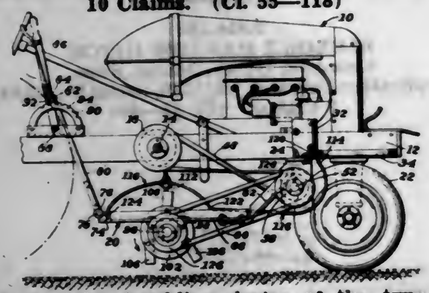
1. A harrow hitch comprising a draw bar having a plurality of tubular sections, hinge joints for connecting said draw bar sections for relative pivotal movement in a vertical plane, each of said hinge joints comprising a pair of hinge members pivotally connected on a horizontal axis and having oppositely extending stub portions adapted to be engaged slidably in the adjacent end portions of the associated draw bar sections, and draft members connected respectively adjacent the ends of said draw bar and angled forwardly and inwardly, whereby the tension of said draft members will create a compressive load in said draw bar for holding the sections thereof in assembled relation on said hinge joints.

2,656,661
BEET HARVESTER
Claude W. Walz, Rock Island, and Howard F. Clausen, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Original application November 9, 1945, Serial No. 627,683. Divided and this application February 25, 1950, Serial No. 146,208
8 Claims. (Cl. 55—106)



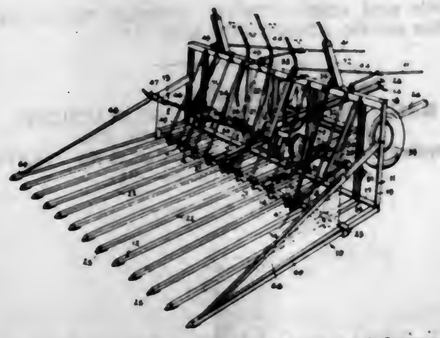
1. In a harvester for beets or the like, a mobile frame, a pair of laterally spaced apart members, vertical pivot means operatively connecting said members to said frame, spring means interconnecting said spaced apart members generally rearwardly of said pivot means, a pair of generally horizontally disposed rotary crop-engaging means on said members, and driving means connected to said pair of rotary crop-engaging means.

2,656,662
TRACTOR MOUNTED STALK SHREDDING DEVICE
Walter E. Hines, Fredericktown, Ohio
Application January 16, 1951, Serial No. 206,234
10 Claims. (Cl. 55—118)



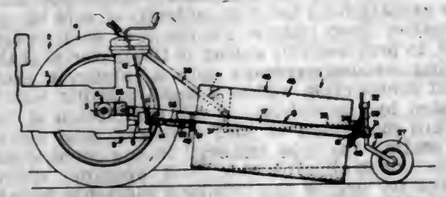
1. A stalk shredding device of the type for attachment to a vehicle and driven by a power take off unit thereon comprising a supporting member adapted to be rigidly connected to the vehicle, a substantially horizontal drive shaft rotatably supported by said supporting member transverse to the longitudinal axis of the vehicle, said drive shaft adapted to be rotated by the power unit of the vehicle, a frame member pivotally journalled on said drive shaft and including two substantially parallel spaced apart side members extending rearwardly from said shaft, a beater rotor rotatably supported by said frame member between its side members and having an axis of rotation substantially parallel to said drive shaft, a plurality of rigid beating elements each pivotally mounted at one end thereof to said beater rotor on its periphery and having the other ends thereof free, each of said beating elements having a leading and a trailing edge, an angle iron mounted above said beater rotor and adjacent a periphery described by the free ends of the beating elements during rotation of said beater rotor, said angle iron extending transverse of said frame member and having a knife edge spaced from the free ends of said beating elements, means drivably connecting said drive shaft and beater rotor, and means connected to said frame member and operatively associated with the vehicle for pivoting said frame member and vertically adjusting said beater rotor with respect to said drive shaft.

2,656,663
TRACTOR MOUNTED SWEEP RAKE
Andrew Dillon Stauffer, Leipsic, Ohio
Application August 10, 1948, Serial No. 43,500
14 Claims. (Cl. 56—27)



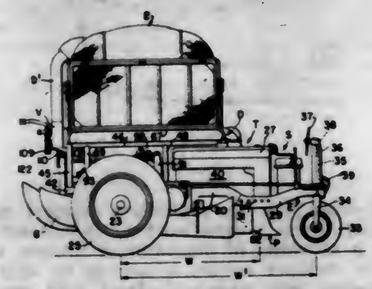
1. A sweep rake having a frame and forwardly directed material gathering prongs carried by said frame, characterized by the provision of a plurality of oscillating arms carried by the frame and cooperating with the inner end portions of the prongs for engaging the material gathered by the prongs and for lifting and moving it rearwardly and upwardly to form a compact mass upon the inner end portions of said prongs, and means for limiting rearward movement of the mass of material upon the said prongs.

2,656,664
CANE TRASH MOVER
Walter H. Silver, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application March 24, 1949, Serial No. 83,278
6 Claims. (Cl. 56—27)



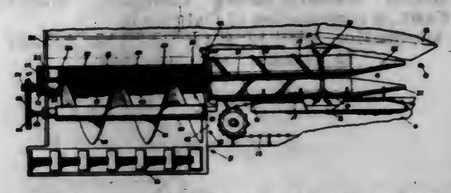
1. An agricultural machine comprising a mobile frame adapted to be propelled along a furrow between two spaced crop rows, and a trash moving device including a frame structure adapted to be disposed to extend directly rearwardly from said mobile frame, means connecting said frame structure with said mobile frame so as to be rigid therewith against lateral tilting, a plurality of trash moving means carried by said frame structure and disposed so as to act directly transversely of the rows, each of said trash moving means comprising an element having sufficient rigidity to be self-supporting, means receiving the inner end portions of said elements for movably supporting said trash moving means from said frame structure in a generally downwardly and rearwardly extending series so as to act on trash, crop residue and the like in the furrow progressively from top to bottom thereof, and means for driving said elements at a relatively slow rate so as to move the trash, crop residue and the like into the adjacent furrow so as to clear the first mentioned furrow for subsequent cultivating or irrigating operations or the like.

2,656,665
COTTON HARVESTER
Talbert W. Paul, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Original application July 18, 1949, Serial No. 105,286. Divided and this application July 19, 1951, Serial No. 237,610
3 Claims. (Cl. 56—28)



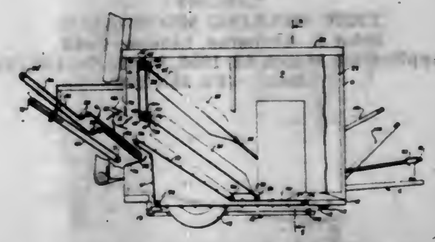
1. A vehicle-attachable cotton harvester, comprising: an auxiliary frame including a first elongated and fore-and-aft extending frame member having front and rear ends provided respectively with front and rear spaced apart vehicle-attachable mounting means, said auxiliary frame further including a second fore-and-aft extending frame member spaced laterally from the first frame member and having front and rear ends, the rear end of said second frame member being substantially in transverse alinement with the rear end of the first frame member and said second frame member being materially shorter than the first frame member so that the front end of the first frame member is spaced a substantial distance ahead of the front end of the second frame member, said auxiliary frame further having a rear cross member cross-connecting the rear ends of the first and second frame members and a front cross member cross-connecting the front end of the second frame member and a portion of the first frame member intermediate the front and rear ends of said first frame member; ground-engaging wheel means sustaining the auxiliary frame and rotatable on an axis normal to the first and second frame members and positioned laterally intermediate said first and second frame members and longitudinally intermediate the front and rear cross members; a cotton harvesting unit positioned ahead of and at a level below the front cross member; a transverse support sustained by the auxiliary frame and positioned intermediate the front and rear cross members; means connected to the transverse support and extending forwardly to a supporting connection with the cotton harvesting unit; a cotton receptacle supported on and above the auxiliary frame and having front and rear ends and opposite sides respectively substantially in upright planes extended through the first and second frame members and the front and rear cross members; and conveying means connected to the cotton harvesting unit and leading to the receptacle.

2,656,666
CORNPICKER ROLL
Edgar V. Collins, Ames, Iowa
Application November 13, 1950, Serial No. 195,403
9 Claims. (Cl. 56—111)



1. In a corn harvesting machine, a two-section roll having a front stalk gathering section, and a rear picking and husking section, with said rear section being of a reduced diameter relative to said front section, bearing means at the junction of said two sections for rotatably supporting the rear end of said front section, other bearing means at said junction for rotatably supporting the front end of said rear section at a position such that one of the corresponding side portions of said sections is in substantial linear alignment axially of said roll, and means at said junction connecting said sections for concurrent rotation at different rotational speeds.

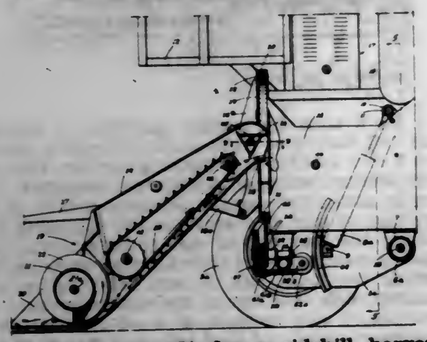
2,656,667
SEED HARVESTER HAVING FLEXIBLE STRIPPING MEANS
Chauncey W. Smith and Milo F. Arms, Lincoln, Nebr., assignors, by mesne assignments, to Research Corporation, New York, N. Y., a corporation of New York
Application October 2, 1948, Serial No. 52,486
5 Claims. (Cl. 56—126)



1. A harvester for stripping seeds or the like comprising a mobile support having at least one substantially U-shaped plant receiving opening therein, plant gathering means at the forward end of the opening, at least one pair of opposed inclined shafts mounted for rotation one on each side and above said opening with the lower end of the shafts toward the plant gathering means, each of the shafts carrying a plurality of flexible stripper sheet members, said flexible stripper sheet members extending outwardly from each shaft into substantially contacting relation with the stripper sheet members of the complementary

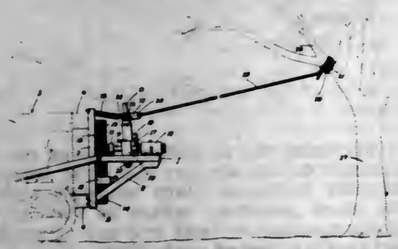
shaft throughout their length, means for rotating said shafts in opposite directions as the harvester progresses along a row of plants whereby the flexible stripper sheet members strip the seeds from the plants, and seed receiving enclosures positioned along each side of the opening below the axis of rotation of the shafts, said seed receiving enclosures being at least longitudinally coextensive with the flexible stripper sheet members.

2,656,668
HEADER MOUNT FOR SIDEHILL HARVESTERS
Homer D. Witzel, Stockton, Calif., assignor to Harris Manufacturing Company, Stockton, Calif., a corporation of California
Application April 10, 1951, Serial No. 220,303
15 Claims. (Cl. 56—209)



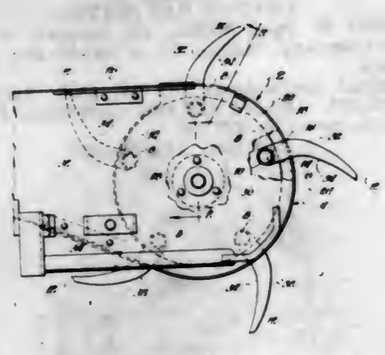
1. A header mount for a sidehill harvester which includes a body supported by transversely spaced wheels relatively vertically adjustable in opposition, and a header having a spout extending toward one end of the body; said header mount comprising a mounting disc at said end of the body facing the header, means on the body supporting the mounting disc for rotation about a longitudinal axis, means securing the spout in connection with the disc for rotation therewith and for spout discharge into the body, and means between the body and disc to rotate the disc.

2,656,669
TREE SHAKING MECHANISM
John E. Avansino, Linden, Calif.
Application March 11, 1950, Serial No. 149,133
1 Claim. (Cl. 56—328)



In a tractor mounted tree shaking attachment, a constantly driven horizontal-axis rotary disc mounted beyond an end of the tractor, and whose axis extends lengthwise of the tractor, a cam on said disc facing the tractor, a swing yoke, means pivoting the yoke at its lower end on the attachment transversely of the disc axis and between the tractor and the disc, an element on the yoke for intermittent engagement by the cam to swing the yoke toward said end of the tractor, a member on the upper end of the yoke above the disc for connection to a tree-attached cable, and a spring between the attachment and yoke acting on said yoke to normally hold the yoke element clear of the cam whereby when the yoke is freed from tree tension, the disc may continue to rotate without the cam contacting said element.

2,656,670
PICKUP MECHANISM
Otto E. Hintz, Riverside, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application June 30, 1951, Serial No. 234,489
1 Claim. (Cl. 56—364)



In a crop pick-up, ambulant support means, a pick-up drum journalled therefrom and comprising a plurality of outstanding fingers, a plurality of stripper elements carried by said support means and wrapped about said drum in intercalated relationship with said fingers and providing a crop deck lying in a single plane, each finger adapted to sweep through said deck attendant to rotation of said drum and each finger having a convexly curved leading edge and a concave trailing edge, said leading edge defined by an arc having an angle of intersection at each point thereof substantially 90° with said plane of said deck, and said trailing edge defined by an arc of progressively increasing angle of intersection with said plane of said deck commencing above 90° as the related finger passes through said deck.

2,656,671
METHOD OF MAKING YARNS
Anton F. Burkardt, New York, N. Y., assignor to Sativa Corporation, a corporation of New Jersey
No Drawing. Application February 28, 1950, Serial No. 146,917
4 Claims. (Cl. 57—156)

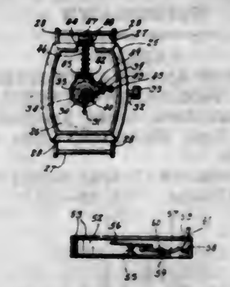
4. The hereindescribed method of producing a composite yarn in which the wet and dry strengths approach each other in value, which includes the step of degumming and preshrinking bast fibers, said bast fibers having a wet strength greater than the dry strength thereof; the step of selecting a predetermined quantity of said fibers; the step of selecting a second predetermined quantity of fibers; and the step of spinning all said fibers together to produce the composite yarn aforesaid, said bast fibers being of natural staple length when so spun.

2,656,672
INTERVAL TIMER
John J. Webber, Newark, Ohio
Application December 17, 1947, Serial No. 792,176
2 Claims. (Cl. 58—21.13)



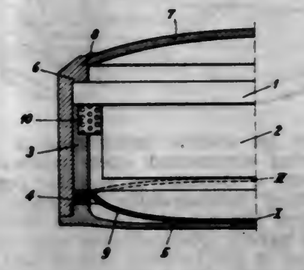
1. An interval timer comprising a housing, signal means mounted on said housing, a spring-driven clock-work mechanism and a shaft rotatably driven thereby, means on said shaft for operating said signal means at the end of rotation of said shaft in one direction so as to signal the end of a timing cycle, a pointer fixed to said shaft and having a portion that can be grasped by hand to manipulate the pointer to rotate the shaft in the other direction to wind the spring of the clock-work mechanism, a dial provided with indicia and mounted on said housing for rotation thereon and provided with a handle by which it may be manipulated, and an indicator on said housing cooperating with said dial and located to mark the position of the pointer at the end of rotation of said shaft in said one direction whereby said dial may be set to indicate any point in a cycle and the indicator set according to said dial to measure off a remaining portion of said cycle.

2,656,673
ALARM FOR WRIST WATCHES
Victor Emmanuel Mattison, Jr., Brooklyn, N. Y.
Application November 29, 1952, Serial No. 323,281
7 Claims. (Cl. 58—57.5)



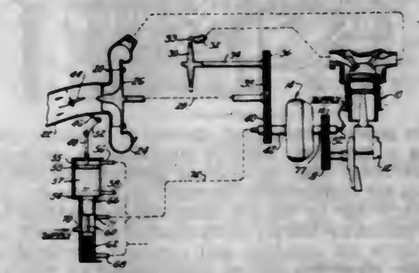
3. In an alarm wrist watch the combination of a watch casing, an alarm casing, a peripheral groove in the watch casing, a plurality of flaps on the alarm casing to engage in said groove and detachably secure the casings together, alarm means mounted in the alarm casing, and alarm actuating means mounted in the watch casing, said alarm means including a gong, a bell crank clapper for said gong having one arm engaged with said actuating means, and a spring to draw the clapper into engagement with the gong; and said actuating means including a spindle projecting through the watch casing, a crown gear mounted on the outer end of said spindle and having pointed teeth projecting toward the casing, said bell crank arm engaging said teeth and being rocked thereby, a coil spring wound around said spindle and having its ends secured to the spindle and the watch casing, a ratchet wheel secured on said spindle, a second bell crank, one arm of which is a pawl to engage said ratchet wheel and prevent rotation of said spindle by said spring, an hour hand spindle, and means controlled by said hour hand spindle to disengage said pawl from said ratchet wheel.

2,656,674
WATERPROOF WATCHCASE
Wilhelm Bondy, Fribourg, Switzerland
Application April 19, 1949, Serial No. 88,389
In Switzerland April 16, 1948
8 Claims. (Cl. 58—90)



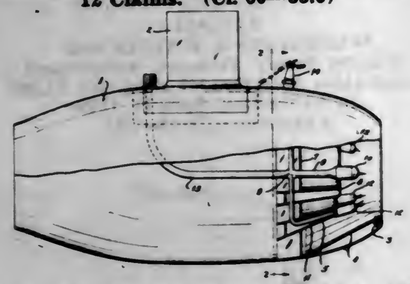
1. In a timepiece, a case portion, a crystal fixed to said case portion, a back fixed to said case portion, and a deformable diaphragm of a thickness from 3 to 200 microns lying between said crystal and said back and being gas-tightly fixed to said case portion, said case portion, crystal and deformable diaphragm enclosing together a space variable in size by deformation of said diaphragm under the influence of a difference between the pressure in said space and the pressure in the surrounding atmosphere, and a movement enclosed in said space and spaced from said diaphragm.

2,656,675
AUTOMATIC CONTROL SYSTEM FOR FEEDBACK TURBINES
Richard J. Cear, Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application December 30, 1949, Serial No. 135,969
6 Claims. (Cl. 60—13)



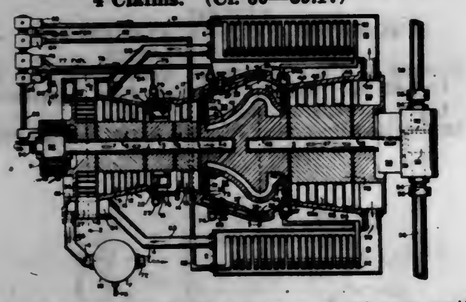
1. An improved hydraulic coupling for a feedback turbine installation which includes an internal combustion engine, an impeller, a turbine driving said impeller, said coupling connecting the engine to the impeller and the turbine and having the feature of two independent oil supply means including means for proportioning turbine energy between said impeller and said engine and means for driving said impeller by said engine when said turbine will not drive said impeller faster than it would be driven by said engine.

2,656,676
RAM JET ENGINE
George W. Kallal, Overland, Mo., assignor to McDonnell Aircraft Corporation, St. Louis, Mo., a corporation of Maryland
Application February 19, 1949, Serial No. 77,351
12 Claims. (Cl. 60—35.6)



1. A ram jet engine comprising a tubular casing having contracted open rearward and forward ends; a plurality of annular concentrically arranged substantially V-shaped section flame holders the V edge of each facing forwardly and having longitudinally extended sides and mounted in the forward end of said casing, the outer flame holder having one of its sides substantially parallel to the wall of the casing and the inner flame holder having its sides substantially parallel to the longitudinal axis of said casing; and means arranged in the central forward end of said casing for introducing fuel into the casing and projecting it forwardly against the incoming air stream.

2,656,677
COMBUSTION GAS AND STEAM POWER GENERATING UNIT
Adolphe C. Peterson, Minneapolis, Minn.
Application July 13, 1951, Serial No. 236,649
4 Claims. (Cl. 60—39.17)

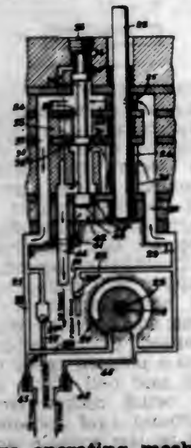


1. In power production means, a primary unit having a primary turbine including a primary turbine rotor and in driving connection therewith an air compressing means, an intake for atmospheric air to the air compressing means for compression by the air compressing means, an intermediate air conduit and primary combustion chamber receiving air as compressed by the air compressing means, a primary fuel supply means discharging fuel into the primary combustion chamber for combustion with air passing therethrough, the primary fuel supply providing fuel for combustion with a portion of the air compressed by the compressing means with the result that the mixture of air and combustion products from said intermediate air conduit and primary combustion chamber have a temperature of not exceeding 1200 degrees Fahrenheit or near that temperature, and nozzle or guide means directing mixture of air and combustion products from said air conduit and primary combustion chamber through said primary turbine unit; a secondary fuel pumping means and a water pumping means each in driven connection and coordination with the said primary turbine rotor to be driven thereby at a speed proportionate to the speed of rotation of the primary turbine rotor; a secondary combustion chamber in conductive connection with the primary turbine and receiving the uncombusted air and combustion products exhausted from the primary turbine, means discharging fuel as pumped from the secondary fuel pumping means to said secondary combustion chamber for combustion with uncombusted air passing therethrough, the volume of fuel discharged thereto from said secondary fuel pumping means being such as to procure as substantially complete combustion of the uncombusted air received from the primary turbine as is commensurate with usage of the secondary fuel without waste; a mixing passage in conductive connection with the secondary combustion chamber and to which products of combustion from the said secondary combustion chamber pass, and means discharging into said mixing passage water as delivered by said water pumping means as water or evaporated water for admixture in said passage with the products of combustion received in said passage from said secondary combustion chamber; and in combination, a secondary turbine unit having a secondary turbine rotor and fluid passage in which the turbine rotor operates, the said last named fluid passage being in conductive connection with the said mixing passage to receive the mixture of combustion products and steam passing therefrom for driving of said secondary turbine rotor, the secondary turbine rotor being rotatable independently of the primary turbine rotor and its driven means and being in driving connection with a work element.

2,656,678

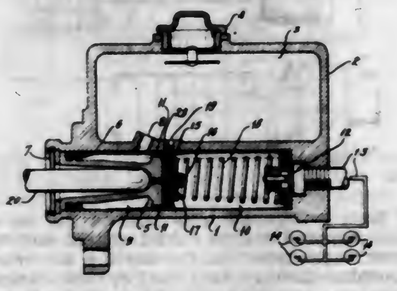
WITHDRAWN

2,656,679
ROTARY PUMP AND MOTOR HYDRAULIC TRANSMISSION SYSTEM
Carl Morey, Hamilton, Ohio, assignor to Economy Pumps, Inc., Hamilton, Ohio, a corporation of Illinois
Application December 17, 1945, Serial No. 635,569
6 Claims. (Cl. 60—52)



5. In a valve operating mechanism, a valve stem, means for operating said stem comprising a fluid motor, a pump having a high volume discharge compartment and a low volume discharge compartment axially alined and having flow connections with both sides of said fluid motor, a valve for controlling the flow of fluid from said high volume compartment to said fluid motor, said valve having communication with one side of said fluid motor and being subject to the pressure in said fluid motor under predetermined conditions and reversible operating means for operating said pump in either direction.

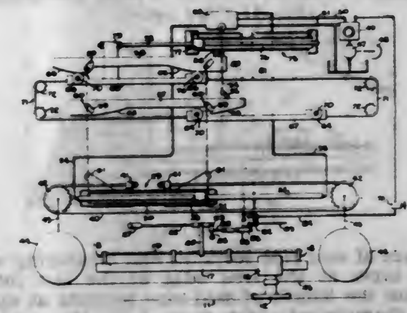
2,656,680
DISK TYPE FLUID PRESSURE SEAL
Albert Brunner, Jennings, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application October 17, 1947, Serial No. 780,397
2 Claims. (Cl. 60—54.6)



1. In a fluid pressure producing cylinder having a bore therein, a compensating port in the wall of said cylinder bore, a piston slidably disposed in said cylinder, a thin disc shaped sealing member of resilient material associated with the head of said piston, the sealing member having a diameter slightly larger than the diameter of said cylinder bore, the periphery of the sealing member having a semicircular cross section, said member having a substantially line contact with the cylinder bore under low pressure conditions and having a substantially surface contact with the cylinder bore under high pressure conditions, the member being capable of flexing away from the piston head during return movement of said piston and under low pressure conditions, the member lying against the head when under high pressure conditions, the piston head and member being rearwardly of said port when fully retracted with the member being flexed away from said piston head and having a substantially line contact with said bore, and being pressed against the piston head at the beginning of the pressure producing stroke of said piston with the periphery of said member remaining in a substantially line contact with said bore until passing said port whereupon the periphery of said member is caused to be in a substantially surface contact with said bore to effectively seal off the bore to the rear of the piston, whereby a small part of the periphery of said member is presented to said port during movement thereby to prevent cutting of said sealing member.
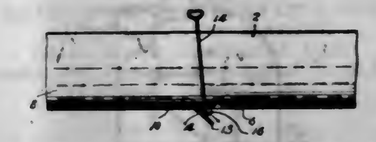
2,656,681
VARIABLE STROKE POWER ACTUATOR
Gustaf J. Petersen, Rockford, Ill., assignor to Mattison Machine Works, Rockford, Ill., a corporation of Illinois
Application May 7, 1951, Serial No. 225,997
11 Claims. (Cl. 60—97)

4. The combination of, a hydraulic actuator having a driven part movable back and forth in response to the delivery of pressure fluid to the actuator in opposite directions, a reversing valve having an element movable between opposite positions to control the direction of flow of fluid to said actuator, spaced stops selectively operable in response to movement of said driven part at the end of each stroke thereof to shift said



valve element whereby to reverse the motion of said actuator, a support for said stops movable in opposite directions to respectively shift the stops toward or away from each other and thereby correspondingly lengthen or shorten the strokes of said driven part, and means for moving said support selectively to different positions.

2,656,682
IRRIGATION FLUME OUTLET
Russell L. Weld, Lihue, Kauai, Territory of Hawaii
Application December 15, 1952, Serial No. 326,004
8 Claims. (Cl. 61—12)

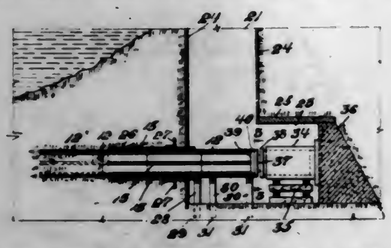


1. In combination, an elongate flume having an opening through a lower portion thereof and a tab having one side thereof secured to said flume adjacent one side of said opening, said tab being larger than said opening and being adapted to lie substantially flat against the bottom of the flume so as to close said opening, and being of flexible material whereby a portion of said tab may be pushed through said opening so as to permit flume water to divert therethrough.

2,656,683
METHOD OF INSTALLING UNDERGROUND PIPES OR DUCTS
Charles W. Riva, Cranston, R. I.; Louise E. Riva, administratrix of said Charles W. Riva, deceased
Application February 7, 1950, Serial No. 142,852
6 Claims. (Cl. 61—42)

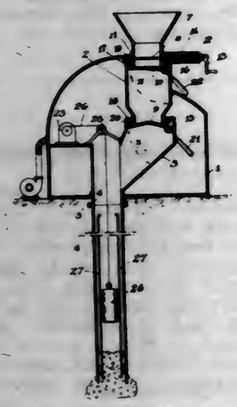
1. Method of installing an underground pipe or duct which comprises erecting a tubular guide at one accessible location pushing through said guide into solidly compacted earth and along a selected line, successively, a series of end to end pipe sections until such series extends from said location to a second accessible location, and as the work progresses welding, each pipe section to the one ahead of it, said guide being arranged to engage at least the full length of one of said sections prior to a section being

pushed beyond said guide, attaching at the leading edge of the first of said pipe sections prior to the pushing thereof through said guide a plurality of measuring tapes to extend along the inner wall of said joined pipe sections with pairs of said tapes positioned diametrically opposite each other to extend along the inner



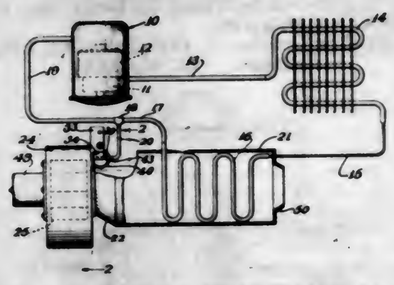
surface of said pipe sections, and measuring with said tapes at the free edge of the last joined section the length of said pipe sections at opposite diametrical sides thereof as the pushing progresses and without removing the earth from the pipe to determine the line of movement of said pipe sections as the work progresses.

2,656,684
APPARATUS FOR DRY FILLING CONCRETE PILES
Lionel Ignacio Viera Rios and Luis Alberto José Mondino Frávega, Montevideo, Uruguay
Application February 12, 1951, Serial No. 210,578
2 Claims. (Cl. 61—63)



1. An apparatus for dry forming concrete piles under water comprising an air-tight casing, a sectional tubular conduit detachably connected to and extending from the bottom of said casing, means for supplying compressed air to said casing, a hopper mounted on the top of said casing, a funnel extending from the bottom of said hopper through the top of said casing, a tubular conduit extending downwardly from and connected to said funnel within said casing, a second conduit connected to and extending from said first conduit toward the open top end of said sectional conduit, a door extending across the top of said tubular conduit for closing the same and being pivotally mounted thereon for being pivoted downwardly, a second door extending across the top of said second conduit for closing the same and pivotally mounted thereon for being pivoted downwardly, means extending exteriorly of said casing for operating said doors said funnel having an opening provided in a side thereof, a third door slideably mounted through said funnel opening for closing said funnel, means for sliding said third door across said funnel, a hammer suspended in said sectional conduit, and means for reciprocating said hammer in said conduit as required.

2,656,685
OVERLOAD LIMITING DEVICE
William F. Bergerd, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application March 10, 1951, Serial No. 214,991
3 Claims. (Cl. 62—3)

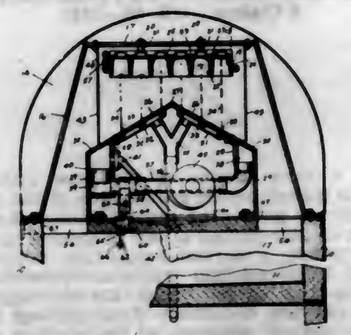


1. In a refrigeration system having an evaporator disposed within a duct system and having a centrifugal type fan for moving air over said evaporator through said duct system, means for preventing overload of the motor-compressor unit of said refrigeration system comprising an elliptical damper, a bell-crank, a bellows, a thermally sensitive element, and biasing means, said bell-crank formed to be pivotally mountable to one side of the fan housing, said elliptical damper mounted to one arm of said bell-crank so that said bell-crank is pivotable on said fan housing to move said elliptical damper over a portion of the inlet hole of the fan housing, said bellows pivotally connected at one end thereof to the other arm of said bell-crank, the other end of said bellows being connected to said biasing means, said biasing means operable to adjust the range of movement of said bell-crank in regard to said fan housing, said thermally sensitive element connectable in thermal contact with the condenser of said refrigeration system and connected to said bellows, said thermally sensitive element operating responsive to temperature changes of said condenser to cause an expansion and contraction of said bellows, whereby the inlet to said fan housing is closable to a degree dependent upon the temperature of said condenser and the adjustment of said biasing means.

2,656,686
ICE-MAKING MACHINE
John R. Bayston, Van Nuys, Calif., assignor to John R. Bayston, as trustee, Icecrafter (Liquidating) Trust, Van Nuys, Calif.
Application August 4, 1951, Serial No. 240,394
7 Claims. (Cl. 62—4)

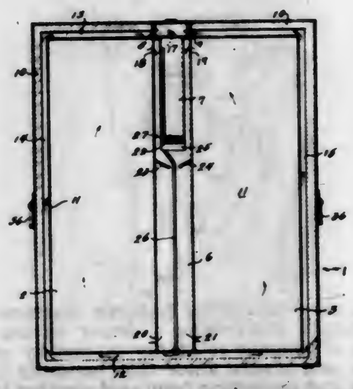
1. In an ice making machine, the combination with an evaporator unit including a series of closely associated inverted freezing cells having interior wall surfaces and being closed at the top and open at the bottom, means to refrigerate the wall surfaces of said cells to cool the liquid received therein and produce an ice deposit in the form of ice cubes, means for defrosting said wall surfaces for freeing the frozen ice cubes to drop therefrom by gravity, a stationary diverter

having a pair of oppositely inclined plates positioned directly under said evaporator and plates therefrom to receive and divert the freed ice cubes to an ice bin, a series of spaced nozzles mounted in said plates positioned to discharge a forced stream of liquid directly upwardly into the central top of said cells respectively, pressure tubes associated with said nozzles, a header



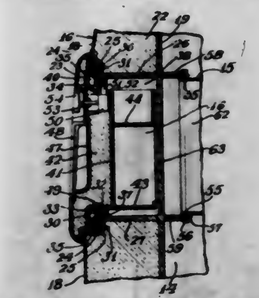
mounted on the under side of said plates communicating with said tubes, a reservoir positioned below the lower edges of said plates for receiving freed liquid shed thereby, an overflow pipe for said reservoir, a flow connection therebetween, and a pressure pump having its intake communicating with said flow connection and discharging into said headers.

2,656,687
APPARATUS FOR AND THE METHOD OF CONTROL AND UTILIZATION OF DRY ICE
James G. Scott, Washington, D. C.
Application September 2, 1949, Serial No. 113,811
4 Claims. (Cl. 62—91.5)



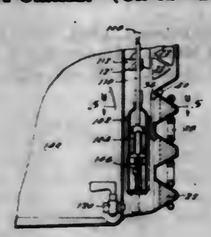
1. Refrigerating apparatus for use with solidified carbon dioxide comprising a double-walled cabinet structure having refrigerating compartments therein, an air circulation stack intermediate said compartments having openings in the upper and lower parts thereof through which air in the compartment is circulated through said stack, a closed refrigerant container in the upper part of the air circulation stack and having a bottom heat exchange wall exposed therein, a gas conducting tube from the upper part of the refrigerant container discharging gas of sublimation between the double walls at the bottom of the cabinet structure, and a gas escape vent from the double wall opening at the top.

2,656,688
REFRIGERATOR DOOR WITH A COMPARTMENT
Lester H. Hinkel, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application October 15, 1951, Serial No. 251,337
9 Claims. (Cl. 62—99)



1. A refrigerator comprising a cabinet having a food storage chamber which is provided with a door opening, a door movable to open and close said door opening, said door having a compartment therein and being provided with a front opening which furnishes access into said compartment, a container slidably secured in said compartment and being adapted to be moved through said front opening, said container being provided with shelves for the storage of food articles, and said container having a front wall which closes said front opening.

2,656,689
METHOD OF AND APPARATUS FOR AUTOMATIC ICE-MAKING
Glenn Muffly, Springfield, Ohio
Application June 15, 1948, Serial No. 33,179
14 Claims. (Cl. 62—106)

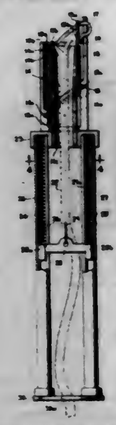


1. In an ice-maker, a water container, means arranged for freezing less than the whole of the water in said container, agitating means comprising a sealed water-tight casing, a flexible tube connected with said casing for transmission of energy thereto, and a motor within said casing including means for producing vibrations which cause movement of said casing to agitate said water for the purpose of causing ice to be frozen in clear form.

2,656,690
KNITTING DEVICE
Mac Buxbaum and Mee Lebensfeld, Flushing, N. Y.
Application March 8, 1952, Serial No. 275,581
7 Claims. (Cl. 66—8)

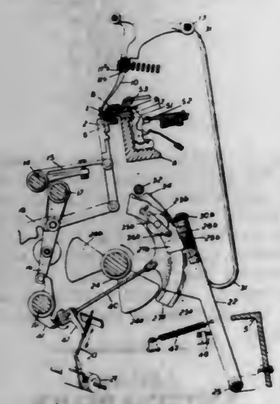
1. A device for forming tubular cords of varying cross section from yarn or the like comprising in combination: a first member having a passage therethrough; a second member comprising a needle guide mounted in said first mem-

ber for angular movement within the passage formed therein, said second member having a passageway therethrough and diametrically opposed guide means positioned thereon, a pair of needles positioned one in each of said guide means, means for reciprocating said needles when one of said members is rotated relative to



the other member; and spring means operatively associated with said second member for urging axially away from said member a cord in response to the reciprocation of said needles, said spring means comprising: a pair of springs positioned on each side of said passageway, a spring yoke extending therebetween, and means for securing such cord to said spring yoke.

2,656,691
KNITTING MACHINE
Arthur Shortland, Leicester, England, assignor to Mellor Bromley & Company Limited, Leicester, England
Application December 7, 1950, Serial No. 199,628
In Great Britain December 8, 1949
10 Claims. (Cl. 66—82)



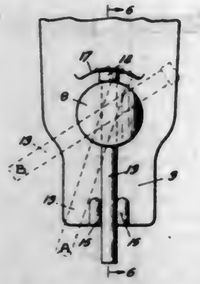
1. In a straight bar knitting machine having a bank of needles and cam means with circumferentially adjustable cam followers displaceable by the cam means to adjust said needles towards and away from sinkers for adjusting the size of loops in a varying number of loops formed by the machine, oppositely rotatable flexibly connected worm screw drive means for automatically effecting the circumferential adjustment of said followers in opposite directions to suit the desired variation in said number of loops.

2,656,692
GUIDE FOR YARN CARRIERS
Edward Jentsch, Clifton, N. J.
Application November 4, 1948, Serial No. 58,267
4 Claims. (Cl. 66—126)



1. In a yarn carrier of the type wherein a thread is moved across the surface of the carrier to a delivery point, the improvement which includes a carrier having a pair of spaced openings in its surface, a thread-supporting member of resilient wear-resisting material removably secured to the carrier, said thread-supporting member having oppositely disposed legs fitting into the spaced openings in the surface of the carrier and resiliently engaging with the carrier with a portion of said thread-supporting member extending transversely of the carrier beneath the thread and supporting the thread in spaced relation to the surface of the carrier in the movement of the thread across the carrier.

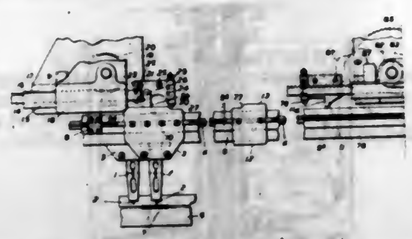
2,656,693
YARN CARRIER OF KNITTING MACHINES
Charles G. Newton, Hamilton, Ontario, Canada, assignor, by direct and mesne assignments, to Textile Machine Works, Wyomissing, Pa., a corporation of Pennsylvania
Application November 16, 1951, Serial No. 256,740
20 Claims. (Cl. 66—126)



10. A yarn carrier for knitting machines, said yarn carrier comprising a finger having a tip portion, a member rotatably carried by said tip portion, and a yarn guide tube mounted on said member and projecting from said member to overlie said tip portion.

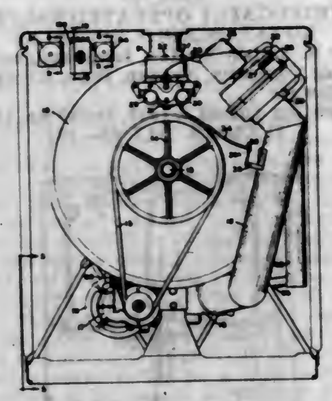
2,656,694
FLAT KNITTING MACHINE
Edward Samuel Barsby and Alfred Percy Saunders, Leicester, England, assignors to Wildt and Company Limited, Leicester, England, a British company
Application May 16, 1950, Serial No. 162,318
In Great Britain May 17, 1949
17 Claims. (Cl. 66—127)

2. In a flat knitting machine, in combination, a yarn carrier having associated therewith a contact piece, a reciprocatory driver bar to which said carrier is attached, a fixed home stop at one end of the machine, a movable end stop which is normally in alignment with the home stop, means for carrying the movable end stop, means for varying the position of the movable end stop as knitting proceeds, the said movable end stop being yieldable in one direction to enable the afore-



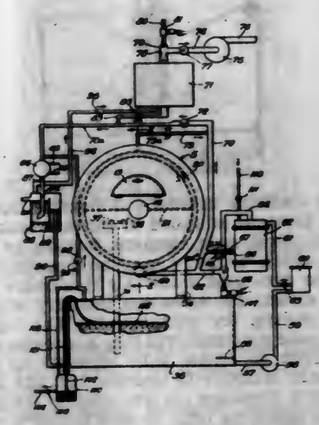
said contact piece to pass it when the yarn carrier is brought into action, but not in the other direction, a housing for the movable end stop carrier means, and means for moving the said housing laterally in relation to the driver bar to enable the contact piece when the yarn carrier is taken out of action, to pass freely by the end stop for return to the fixed home stop.

2,656,695
CONTROL MECHANISM FOR COMBINATION WASHERS AND DRIERS
Lewis L. Miller, South Bend, Ind., assignor, by mesne assignments, to Avco Manufacturing Corporation, New York, N. Y., a corporation of Delaware
Application October 13, 1948, Serial No. 54,278
11 Claims. (Cl. 68—12)



1. In a combination washing and drying machine, a control mechanism therefor comprising, in combination, an electrical circuit for said machine, a sequential controller in said circuit adapted to provide for automatic operation of said machine through a series of washing, rinsing, and extraction periods; a timer in said circuit for controlling operation of said machine when said machine is used as a dryer; a control member in said circuit which may be manually and independently pre-set to cause said timer and said machine to automatically commence operation as a dryer after termination of said washing, rinsing and extracting periods.

2,656,696
APPARATUS FOR COLD DRY CLEANING
Dan McDonald, Aurora, Ill., assignor to Aurora Research Industries, Inc., Aurora, Ill., a corporation of Illinois
Application December 11, 1951, Serial No. 261,623
17 Claims. (Cl. 68—18)



1. In dry cleaning apparatus, a washer comprising a housing, a perforated drum rotatably mounted in said housing, means for admitting air to said drum substantially axially thereof while guarding against escape to atmosphere of vapors from said drum, a refill and discharge conduit opening into said housing adjacent a bottom portion thereof, selective means for continuously delivering a chlorinated hydrocarbon solvent through said conduit and to said housing or for discharging solvent from said housing through said conduit, an overflow conduit opening into said housing above the opening of said refill and discharge conduit, a solvent vapor take-off conduit extending from said refill and discharge conduit, suction means connected to said take-off conduit, and a check valve in said take-off conduit opening toward said suction means and closing toward said discharge and refill conduit.

4. In dry cleaning apparatus, a washer for receiving articles to be cleaned and a chlorinated hydrocarbon solvent, a carbon adsorber, a solvent vapor take-off conduit communicating with said washer adjacent a bottom portion thereof and with an inlet of said carbon adsorber, suction means connecting to an outlet of said carbon adsorber, and a check valve in said conduit opening toward and closing away from said carbon adsorber.

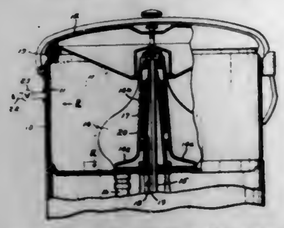
16. In dry cleaning apparatus, a washer, a storage tank for a chlorinated hydrocarbon solvent immiscible with and of greater specific gravity than water, means for delivering solvent from said tank to said washer and returning it from the latter to said tank, and stationary capillary wick means having a portion floatable when water wet upon the solvent in the tank for continuously removing water from the top of the solvent within said tank and delivering it by capillary action to a place of discharge separated from the solvent in the tank.

2,656,697

LIQUID EXTRACTION WITH VACUUM AND HEAT

Henry J. Rand, Bratenahl, Ohio, assignor to H. J. Rand Washing Machine Corp., Bratenahl, Ohio, a corporation of Delaware

Application January 31, 1948, Serial No. 5,627
2 Claims. (Cl. 68—19)



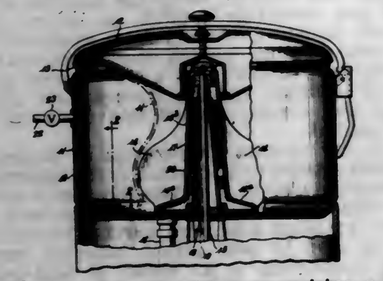
1. In a washing machine, a flexible liquid- and air-tight element adapted to contain laundry and a washing fluid, said element having an opening through which laundry may be inserted and removed, an air- and water-tight closure for said opening, means for agitating laundry within said element, means for withdrawing the liquid and air from said element creating a substantial vacuum therein to cause said element to collapse against said laundry to squeeze out the liquid by atmospheric pressure on the outside thereof, and means for applying heat to said laundry comprising a heating element located centrally of said agitator to evaporate liquid therefrom while said liquid is subjected to a reduced vapor pressure created by said vacuum.

2,656,698

LIQUID EXTRACTION WITH VACUUM AND HEAT

Henry J. Rand, Bratenahl, Ohio, assignor to H. J. Rand Washing Machine Corp., South Bend, Ind., a corporation of Delaware

Original application January 31, 1948, Serial No. 5,627. Divided and this application October 6, 1951, Serial No. 250,131
2 Claims. (Cl. 68—19)



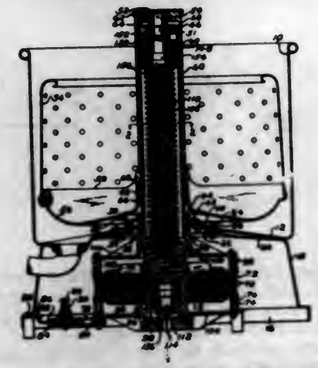
1. In a washing machine comprising a tub, a flexible liquid- and air-tight element within said tub having an opening through which laundry may be inserted and removed, and air- and water-tight closure for said opening, means for agitating laundry within said element, means for withdrawing liquid and air from said element creating a substantial vacuum therein to cause said element to collapse against said laundry to squeeze out the liquid by pressure on the outside thereof, and heating means comprising a heating element embedded in a wall of said flexible element to evaporate liquid from said laundry while said liquid is subjected to a reduced vapor pressure created by said vacuum.

2,656,699

COMBINED WASHER AND EXTRACTOR WITH RESILIENT DRIVE CONNECTION

Bryan W. Chapin, Tully, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware

Application October 16, 1948, Serial No. 54,971
16 Claims. (Cl. 68—23)



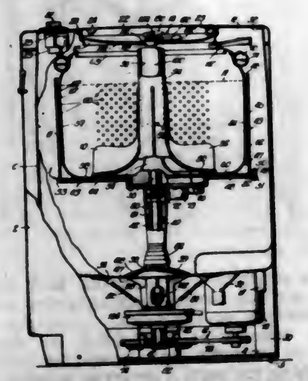
1. In a machine of the character described, a motor having a frame including a stator, and a rotor journaled therein, an oscillatable work element, means for journaling said element for oscillation about an axis coaxial with said rotor, resilient means in the form of a coil spring and having its opposite ends connected in driving relation to said rotor and element respectively, and means for rigidly securing the opposite ends of said spring to said rotor and element, and means for limiting the deflection of the initial free turns of said spring adjacent said rigid securing means.

2,656,700

CENTRIFUGALLY OPERATED VALVE FOR ROTATABLE RECEPTACLES

Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware

Application August 6, 1949, Serial No. 108,991
11 Claims. (Cl. 68—23)



1. A rotatable tub for a washing machine adapted to receive liquid and materials to be washed, comprising a bottom wall, a side wall having an edge spaced from said bottom wall to define an unobstructed circumferential discharge passage, spacing means disposed exteriorly of said side wall for rigidly holding the edge of said side wall and said bottom wall in spaced relation,

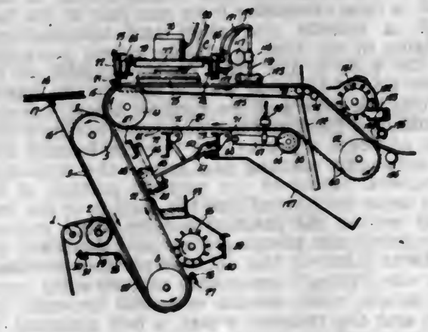
and an annular resilient sealing ring disposed between the outer periphery of said tub and said spacing means to seal said passage when said tub is rotated below a predetermined speed, and the entire ring being movable by centrifugal force to uncover the passage when said tub is rotated above a predetermined speed, said spacing means acting to stop the outward movement of said ring.

2,656,701

RUG SCOURING APPARATUS

Henry C. Hartenbach, Jr., St. Louis, Mo., assignor to Proctor & Schwartz, Inc., Philadelphia, Pa., a corporation of Pennsylvania

Application May 25, 1949, Serial No. 95,241
7 Claims. (Cl. 68—39)



1. In rug scouring apparatus, a first endless conveyor having projecting pins arranged at intervals longitudinally and transversely thereof, mechanism to feed and direct a rug progressively into impaled engagement upon the pins of said conveyor in one course thereof to be carried by the conveyor with one side of the rug facing outwardly, a second endless conveyor having one end thereof disposed adjacent to said first conveyor at the end of the other course thereof and provided with projecting pins arranged longitudinally and transversely thereof, elements disposed to underlie a rug on the first conveyor and extending longitudinally thereof to and about the adjacent end of said second conveyor operable to strip a rug from the pins of said first conveyor and direct the same progressively into impaled engagement upon the pins of the second conveyor to be carried thereby with the other side of the rug facing outwardly, scrubbing means adjacent said other course of the first conveyor operable to engage and thoroughly clean said one side of the rug thereon, rinse means adjacent said scrubbing means, scrubbing means adjacent the second conveyor comprising a plurality of rotary brushes reciprocable transversely as a unit across said other surface of the rug to thoroughly clean the same, and rinse means adjacent said second scrubbing means.

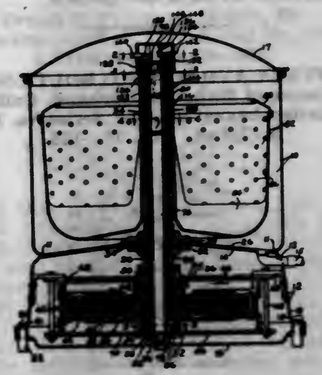
2,656,702

WASHING MACHINE

Bryan W. Chapin, Cortland, N. Y.

Application December 22, 1947, Serial No. 793,159
12 Claims. (Cl. 68—154)

4. In a washing machine, a washing fluid containing stationary tub, a reversible motor carried by said tub having an armature, a wash containing basket revolvably supported within said tub, a torsion spring connected at its opposite ends to said armature and basket, respectively, resilient means for limiting rotation of said basket in either direction, and means for rendering said last named means ineffective to limit the rotation of said basket.

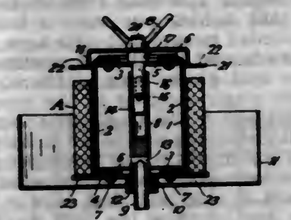


2,656,703

AXIALLY EXPANDABLE STAND FOR THE LIQUID AFTER TREATMENT OF YARN PACKAGES

Emil Friedrich Zingg, Berneck, Switzerland, assignor to Societe de la Viscose Suisse, Emmenbrucke, Switzerland

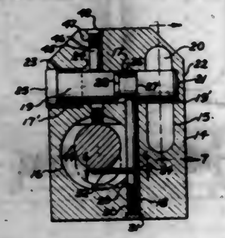
Application January 17, 1949, Serial No. 71,274
In Switzerland January 22, 1948
2 Claims. (Cl. 68—196)



1. Apparatus for use in the wet after-treatment of a package of rayon filament yarn, comprising an elongated perforated, open ended, resilient shell, around which the package of yarn is to be placed for treatment, said shell having at each end an inwardly extending flange, a lower bed plate secured to the lower flange of said shell and an upper plate secured to the upper flange of said shell, a central spindle having an axial bore at its upper end and being threaded at its lower end portion, penetrating into said lower bed plate, and fixed thereto by a nut engaging said threaded portion, a stud slidable in said bore, a collar on the upper part of the stud above said upper flange, said stud being threaded above said collar, a cover mounted on said stud and having a perforated flange extending outwardly from around the threaded portion of the stud, a winged screw nut securing the cover on the stud, said spindle having an axial bore in its lower part and said spindle having transverse holes connecting said bore with the inside space of said shell, said cover being located initially at a greater distance from the bed plate on which the package rests about the shell than the length of the package to be treated, and which cover, together with the bed plate, serves for limiting axial expansion of the package, caused by a treating liquid supplied

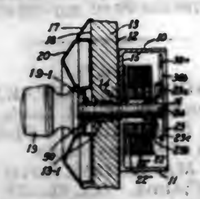
under pressure within the perforated resilient shell during treatment through the lower bore and transverse holes in the spindle.

2,656,704
ROTARY AND SLIDING BOLT LOCK
Emanuel Mancuso, Burbank, Calif.
Application August 23, 1950, Serial No. 180,929
2 Claims. (Cl. 70—128)



2. In a lock for securing a fastener of a type including a staple having a portion adapted to project for engagement by the lock, said lock comprising: a housing having a recess of dimensions corresponding to those of the projecting portion of the staple but slightly larger than the same so as to freely receive the projecting portion of the staple, said housing having a bolt slide bore disposed at right angles to the plane of said recess and intersecting the same, said bore being closed at one end and at its other end having a counterbore opening through the side of the housing, said housing having a locking pin bore disposed at right angles to said bolt slide bore, and having a locking tumbler bore intersected by said locking pin bore; a locking bolt slidably mounted in said bolt slide bore, having a locking end adapted, in a locked position thereof, to traverse said recess and to thereby extend through the staple received in the recess, so as to secure the lock to the staple, the opposite end of said bolt being adapted in an unlocked position of said bolt in which said locking end is withdrawn from said recess, to be projected through the open end of said bolt slide bore so as to be engageable for pushing the bolt back to the locked position, said bolt having, at said locking end, a locking shoulder, having, adjacent said opposite end an intermediate annular groove and having, between said annular groove and said opposite end, a head fitted within said counterbore, a coil spring encircling said bolt and engaged under compression between said head and the bottom of said counterbore for projecting the bolt to said unlocked position when the bolt is released for unlocking movement; a locking pin slidably mounted in said locking pin bore, having a locking end adapted to be projected into said annular groove to engage said locking shoulder to retain the bolt in its locking position, and having an abutment member projecting into said tumbler bore; means yieldingly engaged against the other end of said locking pin and a confining portion of said housing to urge said locking pin toward its locking position in which said locking end engages in said annular groove; a key operated rotatable locking tumbler within said tumbler bore, and a cam on said tumbler engageable with the side of said abutment member opposite said last mentioned yielding means so as to be operable when said tumbler is rotated, to move said locking pin against the resistance of said last mentioned yielding means, to an unlocking position releasing said bolt for retraction to the unlocking position of said bolt.

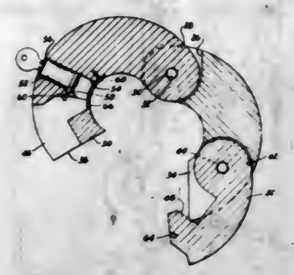
2,656,705
COMBINATION LOCK
Herbert C. Behrens, Canton, Ohio, assignor to Diebold, Incorporated, Canton, Ohio, a corporation of Ohio
Application December 2, 1949, Serial No. 130,722
10 Claims. (Cl. 70—133)



6. In combination lock construction, a base wall, a tube extending from one side of the base wall, a spindle journalled and longitudinally slidable in the tube, a tumbler wheel journalled on the tube, a dial knob on the spindle on the other side of the base wall, a cam on the spindle beyond the tube and the tumbler wheel, the cam including a head and the cam head having a portion adjacent the tube and tumbler formed with an outwardly opening cam notch, the remaining peripheral sector of the notched portion of the cam being cylindrical and the portion of the cam head beyond the notched portion being entirely cylindrical and merging with the cylindrical peripheral sector of the notched portion, the tumbler wheel being formed with an outwardly opening notch, drive means operative between the cam and the tumbler wheel, a bolt mounted on the base wall for movement to and from an extending position, the bolt having an inner end adjacent the tumbler wheel and the inner end of the bolt having an extension tongue dimensioned for permitting movement of the extension tongue into and out of the oppositely aligned notch of the tumbler wheel when the combination is set, an operating lever, a pivotal connection between the operating lever and the bolt, the operating lever including an upper arm extending above the spindle and having a cam follower tongue depending towards the cam, the cam notch being arranged for alignment with the cam follower tongue in the direction of the longitudinal axis of the spindle when the combination is set, spring means operative to yieldingly maintain the cam head against the opposite end of the tube when the bolt is in the extended locking position and during setting of the combination, and the cam tongue riding on the entirely cylindrical portion of the cam head when the bolt is in the extended locking position and during setting of the combination, the cam tongue being arranged to drop into the cam notch when the dial knob is pushed towards the base wall after setting of the combination.

2,656,706
LOCK COLLAR FOR TRAILER KINGPINS
Guy L. Lucas, William D. Edwards, and Ralph S. Chaffin, Akron, Ohio, assignors to Trail Lock Corporation, Akron, Ohio, a corporation of Ohio
Application May 8, 1951, Serial No. 225,204
10 Claims. (Cl. 70—232)

10. A lock for a trailer adapted to engage and encircle an annularly grooved fifth wheel kingpin, the lock including two substantially semi-annular sections, the sections combining to form a collar which engages and encircles the kingpin in the annular groove, means pivotally securing one end of each section to the other section, one of said sections having a latch means receiving slot intermediate the margins thereof at the free end thereof, latch means pivotally secured to the second section and releasably en-



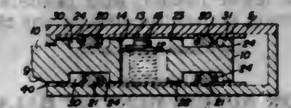
gaging and extending into said slot which is formed in the other section to clamp the free ends of the sections together, and locking means for locking the latch against disengagement with the said other section.

2,656,707
LOCK MECHANISM
Fabian Nilsson, Stockholm, Sweden
Application September 16, 1948, Serial No. 49,479
In Sweden September 29, 1947
3 Claims. (Cl. 70—352)



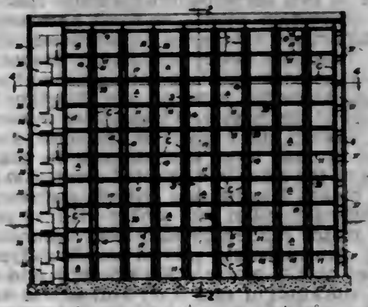
2. A lock mechanism comprising in combination, a housing, a guideway in said housing for a band-shaped key having a perforation therein, a first member guided for movement in said housing, a second member guided for movement in said housing and with respect to said first member, locking pin means extending transversely to said key guideway and reciprocable in bore means in said first and second members, said locking pin means being normally positioned to couple together said first and second members for joint movement, an abutment extending from said second member into said key guideway for engagement by the key when slidably inserted therein, means for limiting the movement of said first member with respect to said housing, means for axially displacing said locking pin means into the perforation of said key during movement of said first member from its initial position to its limit position, said locking pin means being arrested in its movement into said perforation when it reaches a position to release said second member from said first member for permitting said second member to move with respect to said first member and with respect to said housing upon further insertion of said key, means for restoring said second member to its initial position with respect to said first member upon a predetermined withdrawal of the key, means for preventing movement in one direction of said second member relative to said first member from said initial position, and means for restoring said locking pin means to its normal locking position upon withdrawal of said key from said lock mechanism.

2,656,708
LOCK WITH ROLLER BEARING SUPPORT OF BOLT
Ernest R. Freeberg, Moline, Ill.
Application April 17, 1950, Serial No. 156,372
5 Claims. (Cl. 70—464)



3. In a lock, in combination, a hollow housing having a rectangular slot, an axially movable bolt projecting through said slot and guided by one end wall of the housing, a raised portion in said housing guiding the opposite side of the rear end of said bolt, a notch in said bolt for pushing the bolt rearward, a cover for said housing, a recessed area in each of the faces of the bolt parallel to the bottom of the housing, rollers that roll against the housing and the cover, spacers movable between the bolt and the cover and housing respectively, rectangular slots slightly larger than the rollers in said spacers encompassing said rollers, flanges around one of said recessed areas limiting the distance the bolt can roll on the rollers, an axially extending rim to one side of each of said recessed areas, downturned edges bounding the slots in the spacers engaging said flanges to limit the travel of the spacers relative to the bolt.

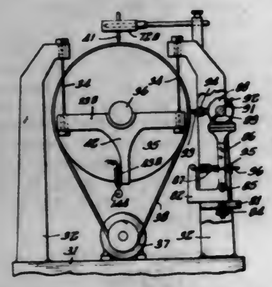
2,656,709
BUILDING FOR LIQUID STORAGE
Oscar Janssen, St. Louis, Mo., assignor to Oscar Janssen Stainless Steel Tanks, Inc., St. Louis, Mo., a corporation of Missouri
Application March 31, 1950, Serial No. 153,271
6 Claims. (Cl. 72—1)



1. A building for liquid storage of multiple-story poured concrete construction wherein, in each story, there is a row of liquid storage chambers each formed by an elongate tank of generally rectangular cross-section having exteriorly reinforced top, bottom, side and end walls of relatively light gage non-corrosive sheet metal, the tanks in each story being arranged horizontally side-by-side and spaced apart with the tanks in successive stories located directly above those below, each tank being embedded in concrete poured around its top, sides and ends, the concrete covering the tops of the row of tanks in a particular story forming a continuous floor for the row of tanks directly above in the next story, the building being constructed with spaces of rectangular cross-section extending the length of the chambers between the concrete sides of adjacent chambers of each row, each of said spaces being divided into an upper and a lower passage

by a horizontal partition extending through the space, with the passages in communication at one end of the space, all the upper passages in each story opening at the other end of the space into an upper header, and all the lower passages in each story opening at the other end of the space into a lower header, said headers extending transversely across the ends of the chambers.

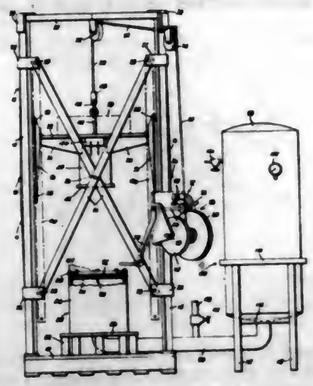
2,656,710
MEANS FOR ADJUSTMENT OF BALANCING MACHINES
Ira A. Weaver and Clyde H. Phelps, Springfield, Ill., assignors, by mesne assignments, to Gisholt Machine Company, Madison, Wis., a corporation of Wisconsin
Application May 29, 1946, Serial No. 673,134
1 Claim. (Cl. 73—1)



In a rotor balance testing machine, a support for an unbalanced rotor permitting vibratory motion thereof, a pair of axially spaced unbalance indicating devices carried by said support to receive and measure the vibrations of the rotor as related to two corresponding axially spaced selected correction planes, a fixed base adjacent said support and extending longitudinally thereof, and a vibration device adjustably mounted on said base so as to be placed at any one of several positions along the same in the direction longitudinally of the rotor and comprising a lever arm pivotal toward and away from the rotor, a striker carried by said lever and adapted to engage a surface of the rotor in a selected correction plane, spring means biasing said lever in a direction to effect engagement of said striker with the rotor, a rotary motor carried by said lever adjacent said striker, an eccentric inertia-weight adjustably mounted on the motor shaft whereby said motor effects vibration of said lever and striker against the rotor whereby periodic forces of known magnitude may be applied to a stationary rotor at a frequency selected for calibration of said unbalance measuring devices in accordance with vibrations of the rotor resulting from actuation of said striker.

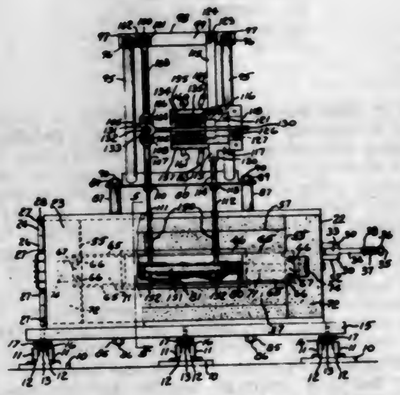
2,656,711
SHOCK TESTING MACHINE
Erwin W. Tschudi, Baldwin, N. Y., assignor to Aeroflex Laboratories, Inc., Long Island City, N. Y., a corporation of New York
Application October 26, 1951, Serial No. 253,289
9 Claims. (Cl. 73—12)

1. A drop testing machine comprising, in combination, a carrier for supporting a work piece to be tested, a guide for the carrier, means for releasing the carrier when raised to permit it to fall freely, a pneumatic cylinder, a piston in the cylinder located to receive the impact of the falling carrier, arrest it, and hurl it upward, and an air reservoir in free communication with the



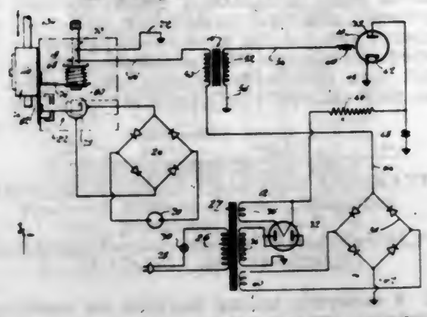
cylinder, said reservoir being of much larger capacity than the cylinder.

2,656,712
DILATOMETER
George E. Comstock 3d, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application April 19, 1949, Serial No. 88,457
16 Claims. (Cl. 73—16)



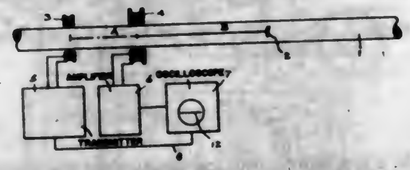
11. In a dilatometer, a substantially sealed specimen heating chamber, means for supporting a specimen in horizontal position within said chamber comprising a pair of spaced upright members depending from points of support disposed above said chamber and having lower end portions extending into said chamber, one of said members being stationary and the other being pivotally mounted from its point of support for movement toward and away from said stationary member, said lower end portions of the members having horizontal portions disposed in the same horizontal plane and providing spaced supporting cradles for the specimen, means for supplying heat to said chamber thereby to heat the specimen supported on said horizontal portions, and means responsive to movement of said pivotally mounted member for measuring the displacement of its horizontal portion occurring upon expansion of the heated specimen.

2,656,713
APPARATUS FOR INDICATING UNBALANCE IN ROTARY BODIES
Arthur C. Allen, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application May 14, 1947, Serial No. 748,049
12 Claims. (Cl. 73—66)



1. Apparatus for checking the locus of unbalance of a body including a stroboscopic light source, means including a transformer, a source of power for the transformer and switch means comprising fixed and movable contacts connecting the transformer to said source of power for flashing said light source, a support for said fixed contact, a support for said movable contact, means resiliently and movably connecting said last mentioned support to said first mentioned support, a cylinder supported upon said second mentioned support, a piston movably mounted within said cylinder, a connector fixedly secured to said piston adapted operatively to connect said piston to the body, fluid within said cylinder, and means forming a restricted bypass around the piston, said piston fitting relatively closely within said cylinder and said fluid being such that vibrations imparted to the piston are imparted to the cylinder and movable contact whereas translatory movement in one direction or another imparted to said piston may initially move said movable contact but said resilient connecting means returns it to its initial position by forcing the fluid to flow through the restricted bypass.

2,656,714
METHOD AND APPARATUS FOR NON-DESTRUCTIVE INVESTIGATION OF MAGNETOSTRICTIVE SOLIDS
William O. Cartier, Toronto, Ontario, Canada, assignor to The McPhar Engineering Company of Canada Limited, Toronto, Ontario, Canada
Application April 12, 1949, Serial No. 87,086
11 Claims. (Cl. 73—67)



5. A method of investigating a solid having magnetostrictive properties comprising, internally stressing the solid at a point by creating a change in magnetic field symmetrically surrounding the solid to create a substantially pure longitudinal wave in the solid, said longitudinal wave being accompanied by a change in permeability, and detecting propagation of said longitudinal wave through said solid by detecting the permeability change accompanying said wave, the propagation characteristic of said wave giving an indication of the physical characteristic of said solid.

2,656,715
OCULAR TENSION INDICATOR
Charles P. Tolman, Kew Gardens, N. Y.
Application March 22, 1951, Serial No. 217,029
1 Claim. (Cl. 73—80)

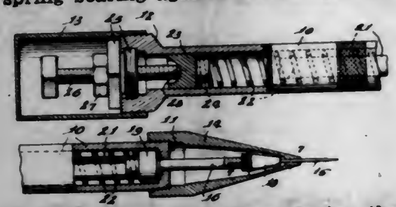


Ocular tension indicating device comprising a holder, a hollow tube slidably mounted thereon and open at both ends, said tube having an eyeball engaging circular flange around its lower open end and, at its upper end, a head having a lateral face which carries a reference marking, an index plunger mounted in said tube with its lower end extending through the lower open end thereof, an index tip at the upper end of said plunger and having an outer surface adjacent to said lateral face and provided with an index marking, said plunger being slidable vertically in said tube to move said tip and said index marking in a path at one side of and differentially in relation to said lateral face of said head and the reference marking thereon, and a prism lens mounted on said head and having a flat surface overlying said reference marking on said lateral face and a concavely cylindrical surface overlying said index tip marking on said tip, said prism lens having a reflecting prism surface disposed at an acute angle to and intersecting said flat surface of said lens, some portions of said reflecting prism surface being disposed opposite said tip and in image reflecting relation to the index marking thereon and other portions of said reflecting surface being disposed opposite portions of said lateral face of the head and in image reflecting relation to said reference markings thereon, and said prism lens having a cylindrical top surface disposed transversely across the projection path of images of said reference and index markings transmitted upwardly through said prism lens by said reflecting surface thereof.

2,656,716
PENETROMETER
Gilbert A. Hoggatt, Winnetka, Ill., assignor to Certain-Teed Products Corporation, Ardmore, Pa., a corporation of Maryland
Application November 18, 1949, Serial No. 128,164
2 Claims. (Cl. 73—81)

2. In a readily portable device for testing the hardness of a material comprising a tubular body member having openings in both ends thereof, a tapered guide member removably carried by one end of the body member, a plunger slidably carried by the body member and extending through the opening in one end into the guide member, means on the body end of the plunger to retain the plunger in the body member, chuck means on the other end of the plunger

and positioned within the guide member to removably and adjustably retain a penetrating member on the plunger, the penetrating member being slidably retained within an opening in the free end of the guide member and extending beyond the free end of the guide member a predetermined distance, the opening being of such size relative to the penetrating member so as to properly guide and rigidly hold the member, an indicating member carried by the plunger extending through a slot in the wall of the body adjacent the one end thereof, scale markings on the body adjacent the slot cooperating with the indicating member, a coil spring freely mounted within the body member, one end of the coil spring bearing against the plunger to cause



protraction of the penetrating member the predetermined distance beyond the guide member, a block slidably mounted within the body member adjacent the other end thereof and bearing against the other end of the spring, means carried by the other end of the body to move the block to adjust the spring to predetermined pressure, a cover removably carried by the other end of the body member to protect the last mentioned means, whereby upon proper adjustment of the pressure of the spring and extension of the penetrating member beyond the guide member the required distance, the hardness of the material may be tested by forcing the penetrating member into the material by the pressure of the spring and reading the amount of penetration on the scale.

2,656,717

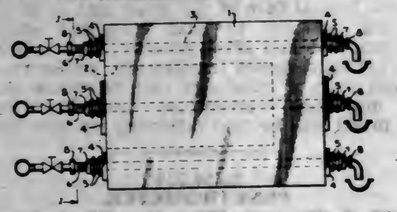
DEVICE FOR AVOIDING THE DISLOCATION OF FURNACES OR OVENS

Jean Charles Fourmanoit, Brussels, Belgium

Application March 29, 1950, Serial No. 152,690

In France February 6, 1950

2 Claims. (Cl. 73—88)



1. A device for measuring dislocations of masonry in metallurgical and particularly in carbonization furnaces, comprising a plurality of tubular tie-rods to reinforce the opposite walls of said furnaces, said tie-rods projecting with their ends from said walls, means at the end of said projecting tie-rods for the supply of a cooling fluid into the same, resilient washers located on said projecting tie-rods adjacently to said furnace walls, nuts on said tie-rods adjacently to said resilient washers, whereby the thermal expansion of said walls can be ascertained by the loosening of said nuts and the thereby caused reestablishment of the original size of said resilient washers.

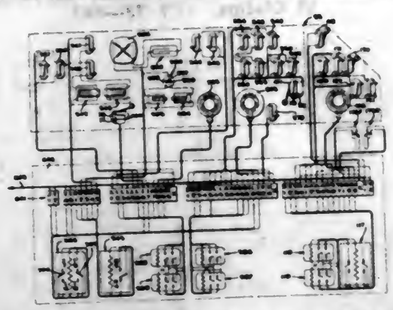
2,656,718

SOIL SHEAR TESTING MACHINE

Trent R. Dames, San Marino, William W. Moore, San Francisco, and John W. Maloney, Alhambra, Calif.

Application February 19, 1949, Serial No. 77,382

29 Claims. (Cl. 73—90)



2. A materials testing machine for shearing a cylindrical sample contained within three adjoining, separable rings, said machine comprising, in combination, a pair of laterally spaced, relatively stationary holders adapted to receive and support the outer end rings of said sample, a movable holder engageable with the center ring thereof, said movable holder being movable in a direction perpendicular to the axis of the sample, a movable member mounted for free translation in a direction parallel to the line of travel of said movable holder, motor driven means mounted on said movable member and connected to said center holder for moving the same to produce shearing deflection of the center ring with respect to the outer ring of the sample, said movable member having a tendency to be drawn toward said sample as a result of the operation of said motor driven means, and means for exerting a shearing load force on said movable member substantially equal in magnitude and opposite in direction to the force tending to pull said member toward said sample, whereby said movable member is maintained in a substantially fixed position at all times during the progress of the test.

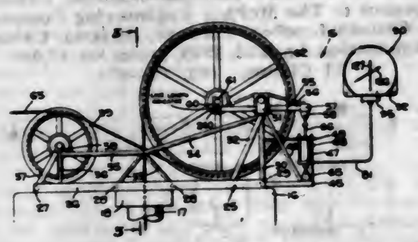
2,656,719

TRAVELING LINE LOAD INDICATOR

Louis Q. Webber, Long Beach, Calif., assignor to Martin-Decker Corporation, Long Beach, Calif., a corporation of Delaware

Application September 5, 1950, Serial No. 183,200

1 Claim. (Cl. 73—143)



In a travelling line load indicator the combination of: a fulcrum; lever means pivotally mounted on said fulcrum; bearings provided on said lever means; a line wheel rotatably mounted in said bearings to receive a turn of said line thereabout whereby said line is adapted to depend from said wheel in a well and be supported on said wheel while travelling into or from said well; a load

measuring device connected to said lever means and adapted to absorb the load imposed on said wheel by said line which tends to rotate said lever about said fulcrum, the axis of said line wheel being slightly inclined relative to horizontal; and a guide wheel for guiding said line into substantially tangential contact with a lower portion of the periphery of said line wheel, whereby said line may be passed substantially once around said line wheel and extend vertically therefrom into said well, the portion of said line between said guide wheel and said line wheel being spaced, by virtue of the inclination of said axis, from the portion of said line which depends from said line wheel.

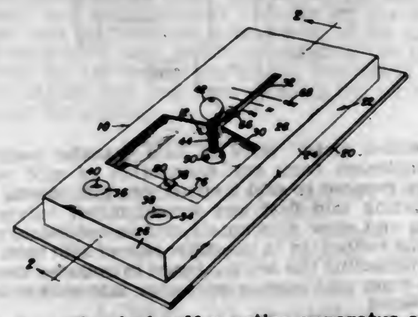
2,656,720

MECHANICAL GOLF PRACTICE APPARATUS

Frederick William Sennett, Winnipeg, Manitoba, Canada

Application January 29, 1951, Serial No. 208,270

2 Claims. (Cl. 73—379)



1. A mechanical golf practice apparatus comprising an elongated rectangular and hollow housing having an upper wall and a base, said upper wall being formed with an enlarged opening and a slot extending therefrom, a coil spring supported in upright position within said opening and on said base for flexing laterally and extending above the plane of said upper wall, a ball secured to the upper end of said spring for swinging in different directions upon striking thereof an indicating means disposed for reciprocation in said slot, and means operatively connecting said ball to said indicating means including a cable having one end extending through said coil spring and connected to said ball and its other end connected to said indicating means.

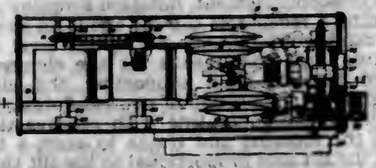
2,656,721

PRESSURE RESPONSIVE PHOTOELECTRIC INDICATING, MEASURING, AND CONTROL DEVICE

Frederick C. Melchior, New York, N. Y., assignor of one-half to Effie B. Melchior, New York, N. Y.

Application August 26, 1947, Serial No. 770,744

6 Claims. (Cl. 73—339)



1. An indicating device of the type described, having a frame, opposing pressure responsive actuating elements mounted in said frame, a pivotal carriage secured to the sides of said frame, said carriage having photo-electric cells mounted on one side thereof and a source of light on the opposite side thereof, a lever disposed between said cells and light source, said lever being pivotally suspended by flexure means, means operatively connecting said operating elements to said lever, said means comprising flexible spring strips having one end attached to said elements and the opposite end to said lever, one of said strips being attached to said lever above its pivotal point and the other of said strips being attached to said lever below its pivotal point, whereby movement of said lever causes an unbalance in said photo-electric cells, means to indicate said unbalance and means for transmitting electrical energy in proportion to said unbalance.

2,656,722

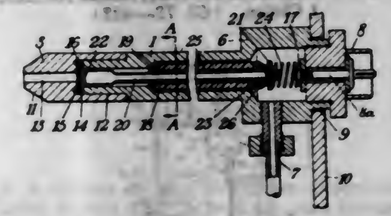
BALANCED PRESSURE PICKUP

Wilfred Percival Mansfield and Albert Henry Cornish, Slough, England, assignors, by mesne assignments, to National Research Development Corporation, London, England

Application December 11, 1950, Serial No. 200,291

In Great Britain December 14, 1949

5 Claims. (Cl. 73—398)



1. Pick-up for use in a balanced pressure type pressure indicator or recorder comprising an electrically conducting tubular body one end of which is adapted to be placed in communication with a chamber containing the fluid the pressure of which is to be indicated or recorded, a pair of oppositely positioned spaced abutments in the bore of said body spaced apart longitudinally of the same, an electrically conducting plate positioned between said abutments, part at least of said plate being substantially free to move longitudinally of the bore in the body to contact alternatively the said abutments owing to appropriate change of difference in fluid pressure on opposite sides of said plate, a fixed electrode adjacent one of the abutments and adapted to act with the plate to form the electrodes of a variable capacitor and electrically insulated from the plate and body, the change of position of the part at least of the said plate changing the electrical capacity between the body and the electrode, means to afford electrical connection with the body and the electrode and means to afford fluid connection with the side of the plate remote from the end of the body adapted to be placed in communication with the pressure fluid.

2,656,723

BOURDON TUBE GAUGE

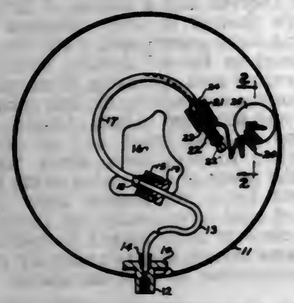
Otto W. Heise, Newtown, Conn.

Application December 20, 1950, Serial No. 201,773

5 Claims. (Cl. 73—418)

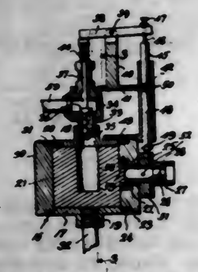
1. In a Bourdon tube gauge, a housing; an inlet; a Bourdon tube connected to said inlet and having a free end opposite the inlet end at a lower elevation when in its normal operating position than other portions of said tube; and vent

means having an inlet and an outlet, said inlet being located within said tube at the highest



point of elevation therein when said gauge is in its normal operating position.

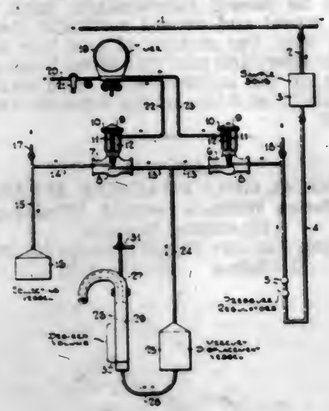
2,656,724
AUTOMATIC APPARATUS FOR THE TAKING OF LIQUID SAMPLES
Elmer H. Cox and Harry B. Copeland, Martinsville, Ill.
Application December 29, 1950, Serial No. 203,512
1 Claim. (Cl. 73—422)



An apparatus of the character described comprising, in combination, a revoluble metering device having a casing provided with an inlet at its upper side and an outlet at its lower side, a rotor in said casing having a radially extending recess registerable consecutively with said inlet and said outlet, an electric motor connected with said rotor, a timing device supplying electrical current to said motor at predetermined intervals, a valve, a vertical pipe interconnecting said valve and said inlet, a conduit interconnecting said valve and a source of flowing liquid, and means actuated by said motor for opening said valve when said recess is in registry with said inlet and closing said valve when said recess is out of registry with said inlet.

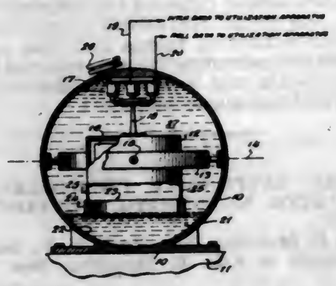
2,656,725
AUTOMATIC SAMPLER FOR LIQUID HYDROCARBON STREAMS
William N. Kestner, Walter C. Kohfeldt, and Lowrie C. Barillier, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware
Application May 26, 1951, Serial No. 228,502
2 Claims. (Cl. 73—422)

1. A liquid sampling system comprising in combination, a sample container adapted initially to receive a body of sealing liquid displaceable by the sample as collected, a sample inlet conduit opening into said container, a collector vessel for collecting displaced sealing liquid from said sample container, a transfer conduit connection between said container outlet and the collector vessel, an auxiliary receiver for displaced sealing liquid intermediate said container and the vessel for displaced sealing liquid, said auxiliary receiver having one side directly connected into said transfer conduit, a first motor valve in said transfer conduit disposed upstream from the connection of said auxiliary receiver to said transfer conduit,



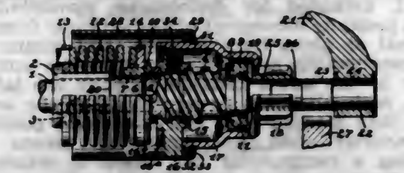
a second motor valve in said transfer conduit downstream from the connection of said auxiliary receiver to said transfer conduit, means for actuating said first and second motor valves to open and close alternately and in sequence, and means connected to the other side of said receiver for displacing the sealing liquid introduced thereinto from said sample container into said collector vessel.

2,656,726
GRAVITATIONAL TORQUING MEANS FOR GYRO INSTRUMENTS
Frederick D. Braddon, Babylon, N. Y., assignor to The Sperry Corporation, Great Neck, N. Y., a corporation of Delaware
Application May 16, 1951, Serial No. 226,592
10 Claims. (Cl. 74—5.41)



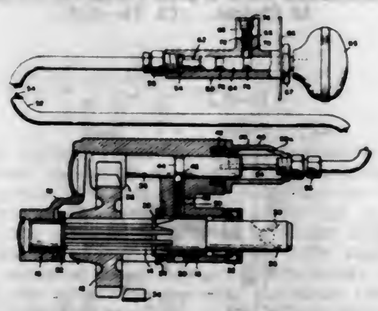
1. In a gyro instrument for dirigible craft having a frame mounted on the craft, a non-pendulous gyroscopic element, flotation torquing means including a receptacle tiltable about an axis with the frame containing a horizontal level defining fluid, and float means for the element immersed in said fluid supporting the element buoyantly in a condition of neutral flotation, said torquing means operating with relative tilt between the element and frame to exert a torque about the tilt axis proportional to the tilt through a limited range due to the buoyancy of the float means in a condition of unbalanced immersion in the fluid.

2,656,727
ENGINE STARTER GEARING
James E. Buxton and Frank T. Christian, Elmira, N. Y., assignors to Bendix Aviation Corporation, a corporation of Delaware
Application March 21, 1952, Serial No. 277,864
6 Claims. (Cl. 74—7)



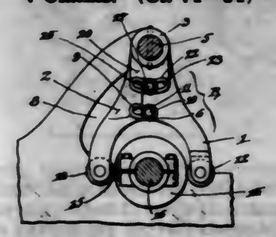
1. In an engine starter drive a stationary bearing bracket, a hollow sleeve fixedly mounted at one end in the bracket, a bearing bushing within said end of the sleeve, a power shaft rotatably mounted in the bushing, a drive pinion journaled on said sleeve out of contact with the shaft and longitudinally movable on the sleeve into and out of mesh with a gear of an engine to be started, and means actuated by the power shaft for traversing the pinion into mesh with the engine gear and then rotating the pinion to crank the engine.

2,656,728
POWER TAKE-OFF ATTACHMENT FOR MOTOR VEHICLES
Louis W. Downey, Detroit, Mich., assignor to Detroit Harvester, Company, Detroit, Mich., a corporation of Michigan
Application July 3, 1950, Serial No. 171,917
2 Claims. (Cl. 74—15.86)



1. A power take-off attachment for a motor vehicle comprising a casing attachable to the transmission housing of the vehicle, a power take-off shaft journaled within said casing, and projecting at one end therebeyond, a power take-off gear splined on said shaft within said casing and shiftable axially thereon between a first position in which it meshes with a transmission gear of the vehicle and a second position in which it is out of mesh with the transmission gear, a shifter shaft parallel to said power take-off shaft, a shifter fork on said shifter shaft within said casing and engageable with opposite sides of said power take-off gear, said shifter shaft being mounted in said casing for longitudinal sliding movement, and means for effecting axial sliding movement of said shifter shaft comprising a flexible wire and tube device, a head for said device remote from said casing, the tube being fixed at opposite ends to said casing and to said head, a control member slidable longitudinally in said head having a knob for manual manipulation, the wire of said device being fixed at opposite ends directly to said shifter shaft and to said control member, said control member having a pair of longitudinally spaced locating recesses corresponding to engaged and disengaged positions of said gear, a locating spring pressed detent in said head cooperating with said locating recesses, a single recess on said shifter shaft, a spring pressed detent in said casing cooperating with said last mentioned recess, said last mentioned recess and detent being located for engagement when said gear is in disengaged position and being dimensioned to provide limited movement of said shifter shaft when engaged so that the exact position of said gear is determined by the detent and appropriate recess in said head.

2,656,729
ROCKER ARM FOR KNITTING MACHINES AND THE LIKE
Eugene Bellini, Jackson, Ala., assignor to Vanity Fair Mills, Inc., Reading, Pa., a corporation of Pennsylvania
Application June 8, 1951, Serial No. 230,584
7 Claims. (Cl. 74—54)



4. A device of the character described comprising, a cam shaft, a pair of cams having identical perimetrical cam surfaces positionally mounted in spaced parallelism on said cam shaft so that their cam surfaces are in direct opposition with one another, a rocker arm member for each of said cams arranged in a common plane with its cam, a cam follower on each of said members adapted to contact a respective cam surface, a rocking shaft on which said rocker arm members are mounted, means for locking said rocker arm members to each other in adjusted relation so as to maintain the cam followers and cams in selected cooperating relationship and the rocker arm members fixed to each other for united actuation by said respective cam surfaces, and means for connecting the rocking shaft with one of said locked-together rocker arm members in selectively adjusted relation.

2,656,730
PULLEY AND METHOD OF MAKING SAME
Orville Mitchell, Dallas, Tex., assignor to John E. Mitchell Company, Dallas, Tex., a corporation of Missouri
Application December 8, 1949, Serial No. 131,869
10 Claims. (Cl. 74—230.8)



1. The method of making a composite device including two members firmly attached together,

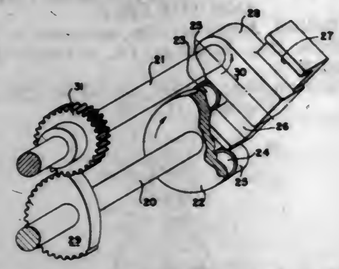
comprising the steps of providing a member containing at least two diametrically opposed side faces and an end surface disposed at an angle to said faces; positioning a plate-like member adjacent the end surface; and offsetting portions of the plate-like member adjacent said side faces by at least partially shearing the plate-like member so that the edges of the offset portions bind on said side faces.

2,656,731

INTERMITTENT MECHANICAL MOTION

Ernest Wildhaber, Brighton, N. Y., assignor to The Gleason Works, Rochester, N. Y., a corporation of New York

Application March 28, 1951, Serial No. 217,993
18 Claims. (Cl. 74—393)



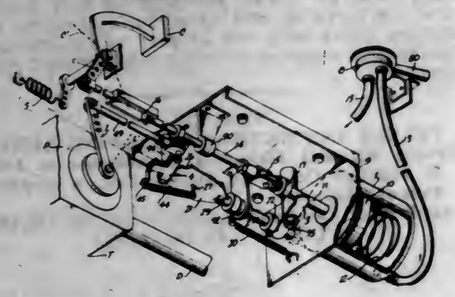
1. An intermittent mechanical motion comprising a rotatable driven member having a pair of non-radial slots open at both ends and a rotatable drive member having pin means arranged to pass through the slots by entering at one end and leaving from the opposite end, each slot having its opposite ends at different radial distances from the axis of the driven member, and the slots being so disposed that their outer ends both lie in the path of the pin means in one position of the driven member.

2,656,732

REMOTE-CONTROL MECHANISM FOR TANK TRUCKS

Carroll Clyde Clough, Seattle, Wash.

Application October 19, 1951, Serial No. 252,179
4 Claims. (Cl. 74—469)



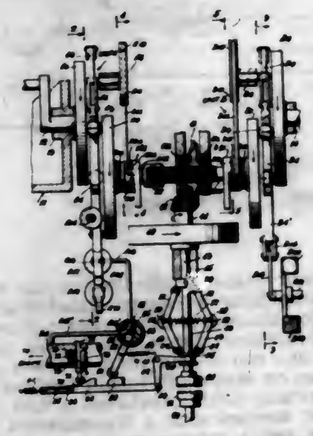
1. Control mechanism for a truck-mounted driven element which is located at a distance from the truck's engine, its clutch pedal, its power take-off and the control lever for such power take-off, and which is power-driven through such power take-off upon shifting of such control lever from disengaged or unmeshed position to engaged or meshed position, said control mechanism comprising a reciprocable actuator biased to remain normally in a given limit position but movable to its opposite limit position, an on-off control device located in the vicinity of said power-driven element, and operatively connected, when turned "on," to effect movement of said actuator to such opposite limit position, clutch pedal shifting means for connecting said actuator to the truck's clutch pedal, arranged for declutching movement of such pedal by movement of the actuator from its normal or given limit position, and means for interconnecting said actuator and the control lever of the power take-off to shift the latter, with each alternate reciprocation of the actuator into meshed and into unmeshed position, respectively, said interconnecting means including a reciprocable rod biased to return to one limit position, means engageable by the clutch pedal shifting means to shift said rod from its limit position with each declutching movement, and a reversible member and snap-over means to retain the same in each of two positions, said reversible member being positioned for engagement by and shiftable with said rod, and having means for connection to the power take-off control lever, to shift the latter, with movement of the reversible member from its one position, into engaged position coincident with declutching movement of the clutch pedal, and conversely, with movement of the reversible member from its other position, into disengaged position coincident with the next declutching movement of the clutch pedal.

2,656,733

POWER TRANSMISSION

Robert H. Dicke, Princeton, N. J., assignor of one-half to Allen A. Dicke, Montclair, N. J.

Application June 7, 1947, Serial No. 753,330
12 Claims. (Cl. 74—472)



1. The combination with an internal combustion engine provided with an intake conduit subjected to a variable vacuum, of a first infinitely variable speed ratio transmission having an input member adapted to be driven by such engine, and an output member, a second infinitely variable speed ratio transmission having an input member, and an output member connected to a load, a flywheel connected between the output member of the first transmission and the input member of the second transmission, and control means for said first transmission unit to decrease its drive ratio in response to decrease in the vacuum in said intake conduit.

2,656,734

STEERING GEAR

William K. Creson, Percy A. Newman, and Matthew W. Berghoff, Lafayette, Ind., assignors to Ross Gear & Tool Company, Lafayette, Ind., a corporation of Indiana

Application October 20, 1950, Serial No. 191,258
14 Claims. (Cl. 74—497)



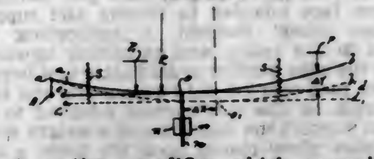
1. In a steering gear having a cam, a lever arm, and a stud carried by the lever arm in operative engagement with the cam, a stud mounting comprising two sets of inner and outer bearing races defining oppositely tapering roller-receiving spaces between them, a set of rollers in each of said roller-receiving spaces, and bearing preloading means engaging at least one set of rollers independently of its races and exerting thereon a spring-loaded force tending to move said set of rollers relative to its races toward the small end of its roller-receiving space.

2,656,735

MOTION AMPLIFIER

Victor Guillemin, Jr., Oak Park, Ill.

Application August 12, 1949, Serial No. 110,015
3 Claims. (Cl. 74—516)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A motion amplifier which comprises two elongated members at least one of which has one surface in the form of a relatively flat curve tangent to and rockable on a surface of the other, one member being pivoted at one end and rockable about said pivot at the other end, the other member being movable transversely of its length, in constantly parallel positions relative to its original position, guide means for constraining said other member for such transverse movement, means engaging one of said members adapted to transmit motion to said engaged member transversely of its length to rock one of said members on the other, whereby the point of tangency is moved longitudinally of said members a greater distance than said motion transmitting means is moved transversely, and a resilient means for maintaining the two elongated members in contact at the movable point of tangency during the rocking motion.

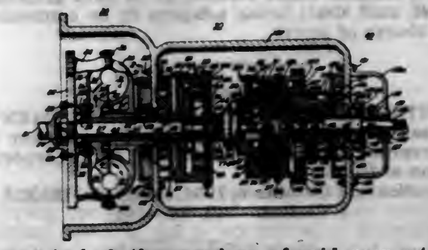
2,656,736

AUTOMATIC TRANSMISSION

Richard H. Ebsworth, Laguna Beach, Calif.

Application August 20, 1949, Serial No. 111,490
23 Claims. (Cl. 74—752)

1. In a power transmission in a motor vehicle, in combination: a brake and a brake drum; a driven tail shaft; a planetary gear set; said gear set having a sun gear, planetary gears, a planet-carrier and a ring gear; a connection from said drum to a member of said gear set; a power driven pump supplying fluid under pressure; spring means constantly tending to apply said brake to hold said drum from rotation; mechanism operated by said fluid pressure and serving to restrain said brake from action; a connection from said planet-carrier to said tail shaft; clutch



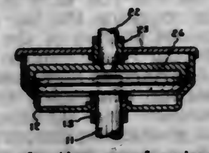
means to lock the members of said gear set for rotation as a unit; spring means constantly tending to apply said clutch means; mechanism operated by said fluid pressure and serving to release said clutch; said first spring means automatically acting to apply said brake and said second spring means automatically acting to apply said clutch when said mechanisms fail to receive said fluid pressure; said automatic action serving to hold said tail shaft and said vehicle stationary.

2,656,737

GEARLESS SPEED REDUCTION MECHANISM

Gregor L. Lang, Suffield, Conn.

Application September 16, 1950, Serial No. 185,255
5 Claims. (Cl. 74—798)



1. A speed reduction mechanism comprising a track means having a V-shaped face, one part of said track means being stationary and the other part opposed to the stationary part operatively connected to an output shaft, a friction disc means mounted for rotation between the opposed track parts, said friction disc means having a V-shaped face adapted to engage the V-shaped face of said track means, opposed portions of said engaging faces being of different effective pitch diameters.

2,656,738

PULPWOOD SAW GRINDER

Robert L. Tomlin, Savannah, Ga.

Application December 5, 1950, Serial No. 199,398
4 Claims. (Cl. 76—37)



1. A blade-sharpening attachment, comprising a tubular standard, means on said standard clampingly engageable with the frame of a circular saw adjacent to the rotary saw blade, a

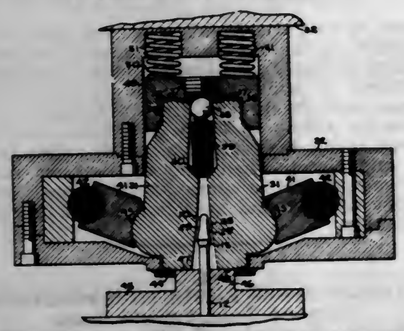
rack bar slidably disposed in said standard, a manually rotatable gear journaled on said standard and meshing with said rack bar, a clamp on said standard lockingly engageable with said rack bar, a yoke member at the end of said rack bar, an arm pivoted in said yoke member, a grinding wheel rotatably mounted on the end of said arm, and a flexible shaft connected to said grinding wheel, said shaft being adapted to be connected to a source of power.

2,656,739

METHOD OF FORGING A HEADED ELEMENT

Judson H. Mansfield, Rockford, Ill., assignor to Greenlee Bros. & Co., Rockford, Ill., a corporation of Illinois

Application October 6, 1950, Serial No. 188,822
2 Claims. (Cl. 76—101)



1. The method of cold forging a head of pyramidal shape on one end of a cylindrical bar which comprises rounding the bar end and upsetting the adjacent portion of the bar to form an outwardly flaring frusto-conical surface and a longer conical surface of decreasing taper and concave cross section converging from the base of said first surface into tangency with said rounded bar end, positioning the partially formed head between four rigid flat die surfaces converging along said second conical surface substantially equidistantly therefrom and each having straight side edges converging in the direction of taper of the second surface, and forcing said die surfaces radially toward each other to compress the entire length of said second conical surface and the adjacent base portion of said first conical surface inwardly until the side edges of said die surfaces are disposed adjacent but laterally spaced from each other whereby the natural flow of metal forms a narrow facet at each corner of the resulting pyramid.

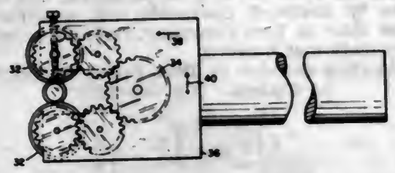
2,656,740

METHOD OF MAKING THREAD CUTTING TAPS

Leo W. Bedker, East Detroit, Mich., assignor of one-half to Emma G. Bedker, East Detroit, Mich.

Application November 20, 1950, Serial No. 196,627
5 Claims. (Cl. 76—101)

5. The method of making thread cutting taps which comprises forming elongated stock to a lobar cross-section having a continuous convex curved surface and being of uniform transverse dimension, thereafter rolling threads thereon by relatively moving said stock and a pair of opposed thread rolls generally perpendicular to the length of the stock to position the stock between the opposed pair of thread rolls to form continuous threads extending completely around the circumference of said stock, and thereafter removing material from the stock to form flutes



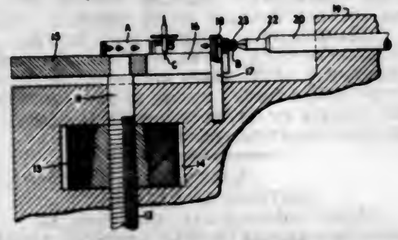
extending longitudinally of the stock generally intermediate each adjacent pair of lobes.

2,656,741

WATCHMAKER'S TOOL

Newman F. Slack, Philadelphia, Pa.

Application April 6, 1950, Serial No. 154,225
2 Claims. (Cl. 77—26)



1. A watchmaker's tool comprising a frame, a pin vertically adjustable in said frame, a table carried at the upper end of said pin having a flat upper face adapted to receive and support a balance wheel thereon, a supporting pin mounted in the frame and extending upwardly through the edge portion of said table and beyond the upper face thereof, said supporting pin having a recess on one side thereof adapted to receive and support the inner end of a weight screw of a balance wheel placed upon the table, a cutter spindle rotatably and slidably mounted in a portion of the frame, said spindle having a knurled portion at one end thereof for manual actuation and cutting edges at the other end thereof terminating in a point, and the supporting pin and cutter spindle being disposed in a common vertical plane, the arrangement being such that when a balance wheel is placed upon the upper face of the table and the inner end of a balance weight screw thereof is disposed in the recess in the screw supporting pin the cutting end of the spindle may be pressed inwardly and rotated to remove metal from the central portion of the outer part of the head of the balance weight screw.

2,656,742

BORING BAR

Loyd Y. Poole, Glendale, Calif.

Application December 19, 1950, Serial No. 201,609
3 Claims. (Cl. 77—58)

1. A boring bar for use with boring mills, vertical lathes and similar machine tools; one end of said bar having a tool shank receiving slot and means for detachably clamping a tool bit in said slot, an axially disposed bore extending from said slot toward the opposite end of said bar, a plurality of inter-engaging partition forming devices disposed in said bore dividing the interior thereof into a plurality of axially aligned annular cavities; each of said cavities being partially filled with mercury, and a screw plug disposed wholly inwardly of said slot closing the open end of said bore and simultaneously



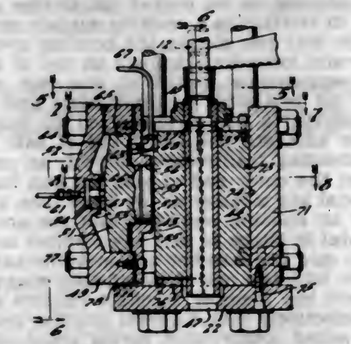
pressing said partition forming devices against each other and against the bottom of said bore.

2,656,743

DIE MECHANISM FOR EXTRUDING COMPRESSED POWDER RODS

Edgar K. Leavenworth, Birmingham, Mich., assignor to Climax Molybdenum Company, New York, N. Y., a corporation of Delaware

Application February 23, 1951, Serial No. 212,434
6 Claims. (Cl. 78—0.5)



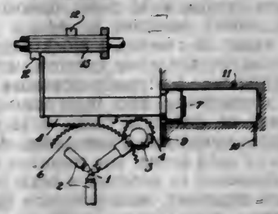
1. A die for extruding a continuous rod of compressed powdered metal, said die including six elongated individual segments together forming a hexagonal passageway for the reception and formation of said rod, a collar securing said segments together in immovable relation at one end thereof, a pair of oppositely disposed clamping blocks extending along the remaining portion of said die, each of said clamping blocks being movable between a clamping position engageable with three of said sections and a retracted position allowing radial expansion of said sections; and means for moving said blocks between their clamping and retracted positions, said means comprising a hydraulic cylinder adjacent said die, a piston within said cylinder and movable between an extended position in operative engagement with one of said blocks and a retracted position out of such operative engagement, and connecting means between said cylinder and the other of said clamping blocks for operatively engaging said other block when said first block is engaged by said piston, whereby both of said blocks are moved simultaneously into their clamping position.

2,656,744

DIE ADJUSTING MECHANISM

August Saxer, Thalwil, Switzerland

Application August 31, 1949, Serial No. 112,248
In Switzerland September 9, 1948
2 Claims. (Cl. 78—22)



1. In apparatus for forming workpieces by a forging operation comprising a frame having a central opening for a workpiece, a plurality of eccentric journals rotatably mounted in said frame with the axes parallel to one another and to the longitudinal axis of the workpiece, said journals being uniformly distributed around the workpiece, shafts rotatably supported in said journals, an eccentric on each of said shafts, a tool carrier rotatably connected with said eccentric, a tool carried by said carrier and adapted to be reciprocated by said eccentric to strike the work and means for adjustably turning said journals to regulate the working depth of said tools, the direction of rotation of said shafts being such that the eccentric portions of said shafts are nearer the centers of the respective journals during the working strokes of the tools than during the idle return strokes and the coefficient of static friction between the eccentric journals and the frame being equal at least to

$$\frac{e_v+\mu' \cdot r_o}{\sqrt{r_o^2-e_v^2}}$$

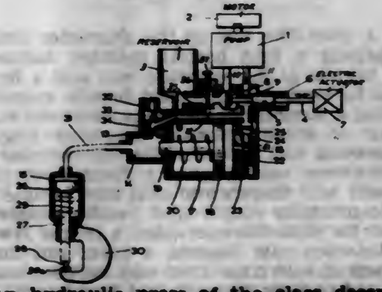
where e_v is the eccentricity of the eccentric journals, r_v is the outside radius of said journals, r_o is the inside radius of said journals and μ' is the coefficient of moving friction between the shafts and said journals whereby the reaction forces on the tools are transmitted directly from the journals to the frame and are thus not transmitted back through the means for turning said journals.

2,656,745

HYDRAULIC SYSTEM FOR RIVETING PRESSES

Gaston Sébastien Ferichon, Boulogne-Billancourt, France

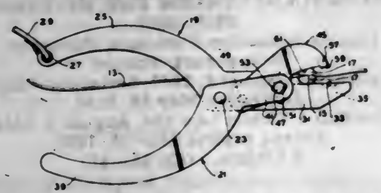
Application August 1, 1947, Serial No. 765,615
In France May 25, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires May 25, 1966
4 Claims. (Cl. 78—42)



1. An hydraulic press of the class described, comprising: a tool supporting press frame; an

hydraulically actuable press cylinder carried by said frame, said press cylinder comprising a press piston movable therein and a tool carrying piston rod connected to said press piston, said frame and piston rod tools being cooperatively engageable with a workpiece inserted therebetween; resilient means urging said press piston to a predetermined initial position in which said tools are spaced apart to receive a workpiece therebetween; a pressure chamber communicating with said press cylinder; hydraulic pressure multiplying means comprising two interconnected slidable members of different transverse areas, the ratio of pressure multiplication being determined by the ratio of said areas, the member of smaller area being disposed to produce a high pressure in said pressure chamber, said pressure multiplying means further comprising resilient means for yieldingly urging said slidable member of larger area to expel hydraulic fluid from the low pressure side of said multiplying means; a controllable source of substantially incompressible hydraulic fluid under pressure, said source including reservoir means permitting back flow of fluid thereto; a first duct means connecting said source with said pressure chamber; pressure actuable normally open valve means included in said first duct means for preventing back flow from said pressure chamber to said source during operation of said pressure multiplying means; a second duct means connecting said source to the low pressure side of said pressure multiplying means for applying pressure to said slidable member of greater area; pressure actuable normally closed valve means included in said second duct means, said normally closed valve means opening in response to a predetermined minimum pressure differential between said source and said low pressure side of said pressure multiplying means; and check valve means connected between said low pressure side of said multiplying means and said source for permitting hydraulic fluid to flow from said low pressure side back to said source when said low pressure exceeds said source pressure.

2,656,746
PLIERS FOR SPLIT SHOT
John Glass, Jr., New York, N. Y., and Robert J. Heath and Charles F. Woller, Muskegon, Mich.
Application February 23, 1949, Serial No. 77,964
3 Claims. (Cl. 81—15)



1. A plier-like tool of the character described comprising a first handle member including a first handle at its rearward end and a first jaw at its forward end, a second handle member including a second handle at its rearward end and a pair of spaced parallel operating fingers at its forward end, said first handle member passing between said fingers, a fixed rivet passing through said fingers and said first handle member to pivotally couple said handle members together for plier-like operation, a second jaw passing between said fingers, a pivot pin disposed forward of said fixed rivet and between said fingers and passing through said first handle member and said second jaw to pivotally couple said last named member and jaw together, a floating rivet disposed forward of said pivot pin and passing through longitudinally extending slots in the forward ends of said fingers, through said second jaw and through a limit slot in said first handle member to pivotally couple said last mentioned fingers, jaw and member together, said limit slot being of arcuate configuration and described about the axis of said pivot pin, and one end of said limit slot cooperating with said floating rivet to limit movement of said jaws toward each other.

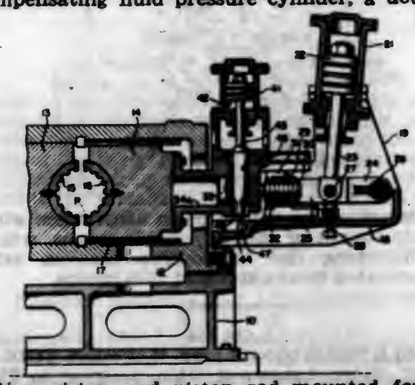
2,656,747
ROCKING TYPE PIPE BENDER WITH ADJUSTABLE GAUGE MEANS
Jacob W. Lewin, Oak Park, Ill.; Lillie E. Lewin, administratrix of said Jacob W. Lewin, deceased
Application February 4, 1950, Serial No. 142,397
2 Claims. (Cl. 81—15)



1. A pipe bender comprising, in combination, a body member having an open arcuate groove for receiving a section of pipe to be bent, and being adapted to be rocked lengthwise of said groove in relation to a working surface on which the pipe may rest during the bending operation, said groove extending through an arc of at least 90°, disengageable means at one end of said groove for retaining the contiguous end of the pipe therein, a pin rigidly fixed to said body member adjacent the other end of said groove and extending transversely thereof, an enlarged head on the outer end of said pin and having a hexagonal key member at the inner face, a finger having an opening receiving said pin and complemental in shape to said key member to interfit with said key member and movable axially of said pin into and out of interfitting engagement with said key member to effect relative adjustment selectively into different angular positions, and a coiled compression spring about said pin and interposed between said body member and finger to maintain said finger normally in interfitting engagement with said key member, said finger projecting from said body member for engagement with the working surface to limit the permissible degree of rocking movement of said body whereby to predetermine the degree of bend imparted to the pipe.

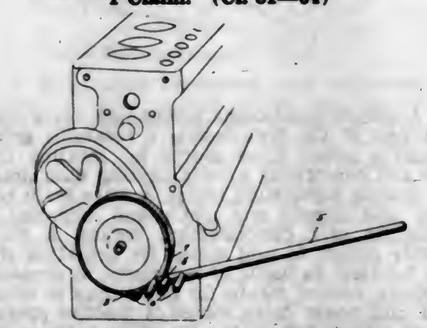
2,656,748
GRIPPING MACHINE
Victor J. Hugo, McKeesport, and John A. Miller, Brentwood, Pa., and Harry Ottinger, deceased, late of Washington, D. C., by Eulalia E. Ottinger, executrix, Washington, D. C., assignors to United States Steel Corporation, a corporation of New Jersey
Application September 6, 1949, Serial No. 114,214
4 Claims. (Cl. 81—17.2)

1. A machine for gripping articles whose dimensions vary within a tolerance range, said machine comprising a frame, fixed and movable gripping elements supported in said frame, a toggle operating fluid pressure cylinder pivoted to said frame, a double-acting piston and piston rod mounted for reciprocable movement in said cylinder, a toggle linkage pivoted to said frame and to said piston rod, a spindle interconnecting said toggle linkage and said movable gripping element and furnishing adjustment in the position said movable gripping element occupies when said toggle linkage is fully extended, a compensating fluid pressure cylinder, a double-



acting piston and piston rod mounted for reciprocable movement in said compensating cylinder, and means operatively connected with said second named piston rod for advancing and retracting said movable gripping element when said toggle linkage is substantially fully extended to compensate for dimensional variations in articles within the dimensional tolerance range for which the machine is adjusted.

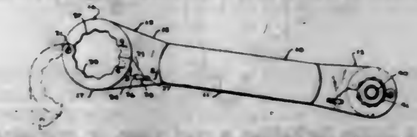
2,656,749
FLEXIBLE BAND TURNING TOOL
Warren W. Johnson, St. Joseph, Mo.
Application April 10, 1952, Serial No. 281,553
1 Claim. (Cl. 81—64)



A tool comprising a combined handle and lever, a plurality of spaced pins extending laterally from said handle and lever adjacent to one end thereof, a flexible jaw comprising a metallic band with sleeves secured to the ends thereof, said sleeves selectively positioned over said pins, removably securing the ends of the band to said combined handle and lever, and one of said sleeves bearing against the article being turned by the tool, thereby providing a fulcrum for the tool.

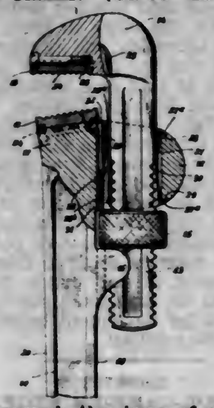
2,656,750
SECTIONAL BOX WRENCH
Malcolm P. Rasco, Port Arthur, Tex.
Application February 2, 1951, Serial No. 209,120
5 Claims. (Cl. 81—121)

1. In a socket wrench, a plate, a fixed semicircular jaw projecting from said plate at one side of said plate, said fixed jaw having an inner end located adjacent to said plate and an outer free end, an abutment on the inner end of the fixed jaw, a complementary semi-circular movable jaw, means pivoting one end of said movable jaw to said free end of the fixed jaw, the other end of the movable jaw being formed with an abutment arranged to engage the abutment of the fixed jaw in the closed position of the movable jaw, a projection on said movable jaw adjacent to said other end thereof, said projection projecting radially outward from the movable jaw, the side of said plate remote from said one side thereof being formed with a notch conform-



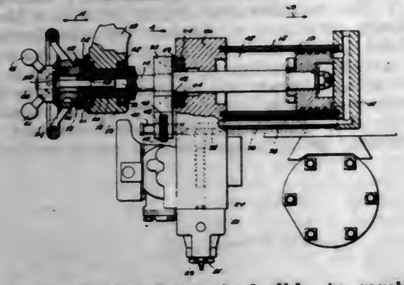
ably shaped to receive said projection in the closed position of the movable jaw, an edge of said notch being provided with a slot opening therethrough and said projection having an edge provided with a slot arranged to register with the plate slot in the closed position of the movable jaw, a latch pivoted in the projection slot and having an outer end portion arranged to be normally positioned in the plate slot so as to hold the movable jaw in closed position, said latch being pivotable to a position in which its outer end portion is removed from the plate slot and the movable jaw is free to be pivoted to open position.

2,656,751
REPLACEABLE JAW INSERT FOR PIPE WRENCHES
Walter J. Johnson, Buffalo, and Carl G. Ertell, Eggertsville, N. Y., assignors to J. H. Williams & Co., Buffalo, N. Y., a corporation of New York
Application July 14, 1950, Serial No. 173,904
2 Claims. (Cl. 81—186)



1. A pipe wrench the jaws of which are provided with replaceable, interchangeable, wear-resisting jaw inserts, a jaw and the insert therefor being formed with force-fitted, interengaging dovetail mortises and tenons having longitudinal axes extending parallel to the front of the wrench, and a locking pin extending from the front of the wrench and through side walls of the interengaging dovetails at a right angle to said longitudinal axes, said locking pin having a thickness equal to at least the height of the dovetails and engaging said dovetails substantially throughout their height.

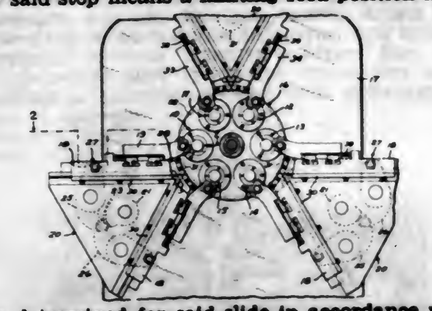
2,656,752
TOOL SLIDE ARRANGEMENT
Robert Kurzweil, Kew Gardens, N. Y., assignor to Morey Machinery Co. Inc., Astoria, N. Y.
Application August 25, 1948, Serial No. 46,013
1 Claim. (Cl. 82—24)



In a lathe including a tool slide, in combination, fluid operating means including a reciprocable piston; a piston rod secured at one end thereof to said piston, said piston rod having an outer thread on the other end thereof; a sleeve member having an inner thread engaging said outer thread on said piston rod, said sleeve member being secured to the tool slide; manually operated means secured to said sleeve member for rotating the same whereby said piston rod is screwed in axial direction to a position adjusted relatively to the tool slide; manually operated locking means located in said sleeve member for locking said piston rod in an adjusted position; means supplying pressure fluid to said fluid operating means; actuating means operating said means for supplying pressure; a bracket member secured to said piston rod and extending transversely thereto, said bracket member being formed with a bore extending parallel to the axis of said piston rod; a cam member having a threaded end portion, and passing with said threaded end portion through said bore in said bracket member; a manually operated nut on said threaded end portion of said cam member, said nut engaging said bracket member, and being prevented by the same to move in axial direction of said threaded end portion so that by rotation of said nut the position of said threaded end portion and of said cam member is adjusted relatively to said bracket member and to said piston rod; a fixed support slidingly supporting said piston rod intermediate said piston member and said bracket member; stop means mounted on said support slidably in a direction transversal to the direction of reciprocation of said piston rod between an operative and an inoperative position, and engaging in operative position thereof said bracket member so as to interrupt reciprocating movement of said piston member; and operating means on said fixed support engaging said stop means for movement between inoperative and operative position.

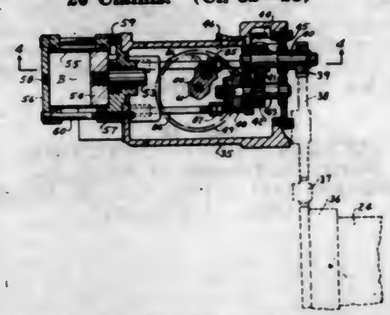
2,656,753
TOOL-CARRIER STOP
Donald H. Montgomery, West Hartford, Conn., assignor to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut
Application August 1, 1947, Serial No. 765,601
12 Claims. (Cl. 82—24)

1. In a machine of the character indicated, indexible means, a slide for cooperation with work at successive stations of said indexible means, cam-actuated means for actuating said slide, adjustable means between said cam-actuated means and said slide, and stop means engageable with said adjustable means and including a portion to abut said indexible means, whereby upon abutment of said indexible means by said stop means a limiting feed position may



be determined for said slide in accordance with the adjustment of said adjustable means, without disturbing the relationship between said cam-actuated means and said stop means.

2,656,754
SPINDLE POSITIONER FOR MACHINE TOOLS
Ross B. Treer, Lakewood, Ohio, assignor to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio
Application July 5, 1951, Serial No. 235,207
20 Claims. (Cl. 82—28)



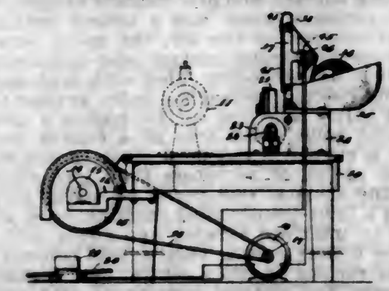
1. A spindle positioning mechanism for a machine tool of the type having a rotatable spindle and a power drive source for rotating the same and comprising a reciprocating fluid pressure spindle positioning motor, a drive train between said spindle and motor and including a connecting and disconnecting means, a fluid pressure circuit to said motor for actuating the same between its limits of movement in opposite directions, control means for said circuit to effect when said power drive source is inactive operation of said motor in one direction between its limits of movement, and means acting automatically when said motor is thus operating to effect connection of said connecting and disconnecting means to impart a positioning rotation to said spindle and to bring the same to a predetermined position.

2,656,755
APPARATUS FOR THE PRODUCTION OF MUSIC
Benjamin F. Miessner, Harding Township, Morris County, N. J., assignor to Miessner Inventions Inc., Harding Township, Morris County, N. J., a corporation of New Jersey
Application March 10, 1950, Serial No. 148,943
12 Claims. (Cl. 84—1.14)

6. A vibratory reed and pick-up arrangement for electronic musical instruments comprising a base of insulating material having an aperture therein; a vibratory reed alined with said aperture and having an end secured to one end of the base; a first pick-up in the form of a relatively-thin, rectangular plate secured to the other end of the base and having a free end that is longitudinally spaced from and substantially parallel to the free end of the reed; and a second pick-up in the form of a relatively-thin, rectangular plate having an end secured to the other end of the base and including a flat surface portion spaced from and inclined at an angle relative to the surface of revolution generated by the free end of the reed when the latter is vibrating.



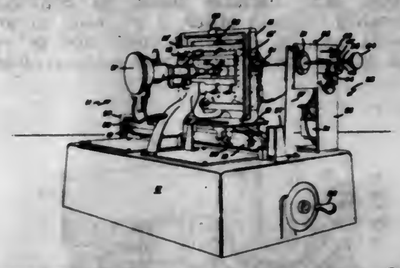
2,656,756
FABRIC MEASURING AND INSPECTION MACHINE
Rudolph G. Birr, Lombard, and Paul W. Jespersen, Wilmette, Ill., assignors to American Linen Supply Co., Carson City, Nev., a corporation of Nevada
Application May 26, 1949, Serial No. 95,466
9 Claims. (Cl. 88—14)



1. In a fabric measuring and inspection machine, a table, means above the top of and mounted adjacent one end of and on said table for supporting a supply of fabric to be measured and inspected, a mandrel rotatably supported adjacent to but beyond the opposite end of and below the top of said table for winding up said fabric, an upright illuminable inspection screen in the path of travel of the fabric from said supporting means to said mandrel, a measuring roll below said screen near the top of the table in said path of travel and adapted to be contacted by the fabric, means for rotating said mandrel to draw the fabric from said supporting means whereby said measuring roll is rotated, and a counting device operated by rotation of said measuring roll.

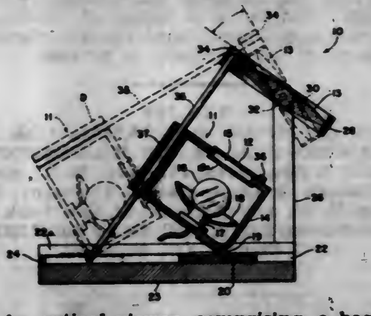
2,656,757
RACKING MECHANISM FOR MICRO-PHOTOMETERS
Joshua Stern, Mount Rainier, Md.
Application January 16, 1951, Serial No. 206,283
7 Claims. (Cl. 88—14)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A microphotometer racking mechanism for advancing a photographic plate holder with respect to the scanning mechanism comprising a motor, a first drum, a cam integral with the first drum, means connected to said motor for rotating the first drum and the cam, switch means cooperating with said cam to limit its degree of rotation a predetermined amount depending upon



the contour of the cam, a second drum, flexible means connecting said drums, and means connecting the second drum and the plate holder.

2,656,758
OPTICAL VIEWER
Janey A. Cole, Chicago, Ill.
Application January 25, 1950, Serial No. 140,363
15 Claims. (Cl. 88—29)

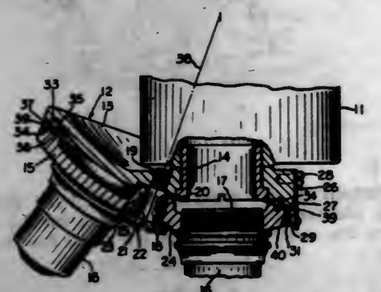


15. An optical viewer, comprising, a base and a substantially upright portion extending from the same, lens means rotatably supported to said upright portion for tilting about a line of rotation to image producing positions, carrier means for supporting an object to said lens means, guide means having relatively movable slide portions respectively on said base and movable with said carrier means affording a guide path for directing said carrier means to different positions beneath and away from said lens means for focus of the latter on the object, said carrier means being movable to different positions of tilt along said path to modify the inclination of the object, and means interconnecting said lens means and carrier means to keep the tilting thereof in unison upon movement of said carrier means along said guide path and maintain substantial optical alignment of said lens means with the object with variation of the object distance.

2,656,759
MICROSCOPE NOSEPIECE
Clarence J. Bowerman, Pittsford, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application May 15, 1950, Serial No. 162,949
5 Claims. (Cl. 88—39)

1. A microscope nosepiece comprising a stationary support member, means for fixing said member on a microscope, an objective carrying member rotatably mounted on the support member to turn about an axis so as to position a selected objective in operative position, annular

bearing surfaces inclined with respect to said axis and located oppositely to each other on the respectively adjacent outer portions of said members, said surfaces being in converging relationship to each other, a plurality of anti-frictional bearing elements positioned between and in rolling contact with said surfaces, means



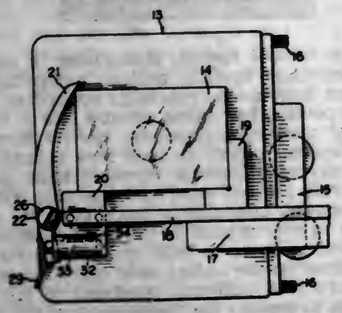
for retaining said elements between said surfaces, said surfaces and elements providing the sole means for centering one member relative to the other, and means carried by one member for urging the surfaces into contact with the elements, said surfaces being of substantially maximum radial dimensions whereby stability of alignment of the objectives is secured.

2,656,760

SLIDE CLAMPING MECHANISM FOR MECHANICAL STAGES FOR MICROSCOPES

Clarence J. Bowerman, Pittsford, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York

Application July 8, 1950, Serial No. 172,711
2 Claims. (Cl. 88—40)



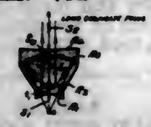
1. A mechanical stage for a microscope comprising a frame for positioning a specimen slide on the microscope stage, a clamping finger mounted to turn on a pivot carried by the frame, the pivot being located adjacent one end of the finger to divide the finger into long and short end portions, the long end portion of the finger extending away from the frame to engage the slide, a piston slidably mounted in a bore formed in the frame, and a spring mounted within the bore and normally urging the piston outwardly into contact with the short end portion of the finger to urge the long end portion of the finger into clamping engagement with the slide, the diameter of the piston being less than that of the bore whereby a clearance is provided for the passage of air, said clearance being the only means permitting flow of air into or out of the bore, the clearance between the piston and bore being such as to permit slow escape of air from the bore when the piston is moved inwardly against the action of the spring and to permit the slow inflow of air into the bore when the piston is moved outwardly by the action of the spring whereby the movement of the finger against the slide is retarded.

2,656,761

LARGE-APERTURE OPTICAL SYSTEM COMPRISING TWO REFLECTING AND REFRACTING SPHERICAL SURFACES IN AXIAL ALIGNMENT

Berndt Stephan Blaisse, Veerburg, Netherlands, assignor to N. V. Optische Industrie "De Oude Delft," Delft, Netherlands

Application October 9, 1950, Serial No. 189,104
In the Netherlands October 11, 1949
23 Claims. (Cl. 88—57)



1. An optical system for the enlarged imagery of small objects or for the reduced imagery of large objects comprising in optical alignment from the short conjugate focus towards the long conjugate focus of said optical system spaced spherical surfaces comprising a first refracting surface, a partly reflecting surface, a concave reflecting surface which is concave towards said short conjugate focus, and a second refracting surface exposed to the air, the space between said partly reflecting surface and said concave reflecting surface being filled with transparent material having a refractive index greater than 1, said partly reflecting surface having a central reflecting zone which acts as a convex mirror which is curved in the same sense as and has a shorter radius of curvature than said concave reflecting surface, said partly reflecting surface having a light-transmitting marginal zone which forms an interface between two media with refractive indices greater than 1, said concave reflecting surface having a central light-transmitting zone, the relative position of said spaced spherical surfaces being such that light rays emanating from the short conjugate focus traverse successively said first refracting surface and said partly reflecting surface, are then reflected at said concave reflecting surface back towards said partly reflecting surface, which reflects the rays through said central light transmitting zone of said concave reflecting surface, whereupon said second refracting surface is traversed.

2,656,762

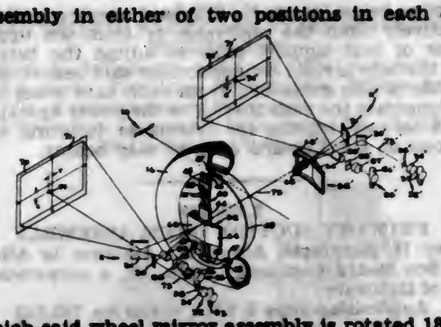
WHEEL MIRROR ASSEMBLY

James P. Carr, Lansing, Mich., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware

Application February 2, 1950, Serial No. 141,988
3 Claims. (Cl. 88—74)

1. In a wheel mirror assembly adapted to be supported on a mount attached to a dirigible wheel for measuring alignment characteristics of the latter, the combination of: a frame; means on said frame to rotatably relate said wheel mirror assembly to said mount on a substantially horizontal axis; a plane mirror fixed on said frame in perpendicular relation with said axis; a plane wing mirror fixed on said frame in angled relation with said first plane mirror; a counterbalance weight for said wheel mirror assembly; and means for shiftably mounting said weight on said frame to permit said weight to be shifted to a position below said axis on said wheel mirror

assembly in either of two positions in each of



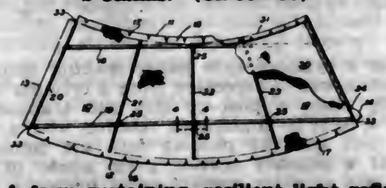
which said wheel mirror assembly is rotated 180° about said axis from the other position.

2,656,763

LUMINESCENT SIGNALING DEVICE

Kenneth L. Frost, Oakland, Calif.

Application June 16, 1950, Serial No. 168,589
2 Claims. (Cl. 88—80)



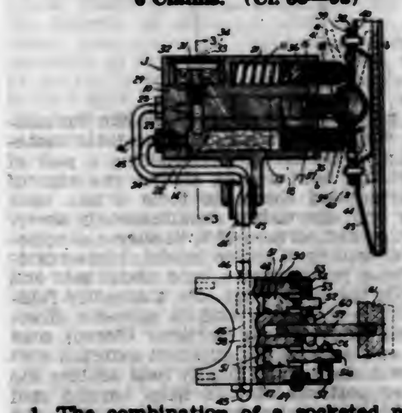
1. A form sustaining, resilient light reflecting safety device of the arm band type, comprising a resilient base member of settable plastic material of substantially frusto-conical shape, said base member being a sheet of material developed as the frustum of a cone and being helically coiled, said sheet having an outer cover of flexible light reflecting material over substantially its entire surface, said cover being of similar shape but slightly larger in all dimensions, and turned over the edges of the base sheet, said device, when set in frusto-conical shape, being springy and adapted to be applied over and to encircle the arm of a wearer to be used as a signalling device.

2,656,764

MOUNT AND MEANS FOR SUPPORTING AND ORIENTING OPTICAL DEVICES

Marvin Bernard Johnson, Montgomery, Ala.

Application November 30, 1948, Serial No. 62,645
6 Claims. (Cl. 88—93)



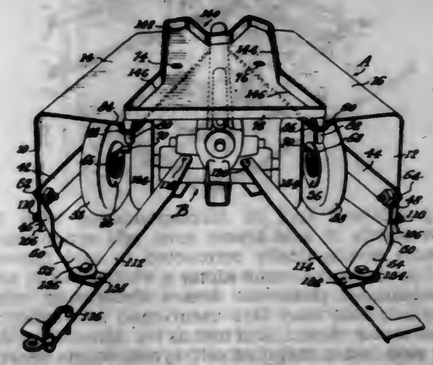
1. The combination of a socketed mount for supporting an optical device, a housing, a ball headed stud mounted centrally of said housing, said socketed mount being swivelly supported on the ball head of said stud, a pair of pistons carried by said housing and engaging the rear of the socketed mount on opposite sides of its swivel support, a spring urging one of said pistons toward said mount, hydraulic means urging said other piston toward said mount, and a pump for supplying hydraulic pressure to said hydraulic means.

2,656,765

PORTABLE ARTILLERY SHIELD

Charles W. Raymond, Cambridge, N. Y.

Application October 25, 1951, Serial No. 253,185
9 Claims. (Cl. 89—36)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A portable ordnance shield, comprising an armored cab-like body open at its rear and including continuous side walls, a closed top and substantially closed front wall, means hingedly interconnecting the side walls and front wall while permitting separation of the side walls with accompanying opening of the top, a cargo tray removably mounted in the body, the said tray being designed in contour to cover completely the top opening in the body resulting from separation of the side walls when the tray is removed from its mountings in the said body while reinforcing the side walls when the tray is mounted in the body, wheels mounted on the side walls interiorly thereof for imparting portability to the shield, the contour of the tray adapting the tray to receiving the wheels between itself and the side walls, means for securing the tray in mounted position in the body when in closed position, and means for securing the tray on top of the said body when the side walls of the body are separated.

2,656,766

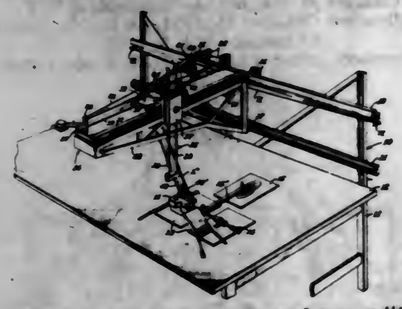
APPARATUS FOR PRODUCTION OF RELIEFS

Robert E. Martens and Lewis A. Whinnery, Charleston, W. Va., assignors to Stone Crest Studios, Inc., Charleston, W. Va., a corporation of West Virginia

Application February 16, 1951, Serial No. 211,392
2 Claims. (Cl. 90—13.5)

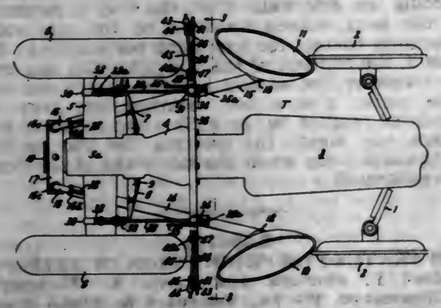
1. Apparatus for producing relief models from flat reproductions of terrain comprising first perpendicularly related horizontally disposed guide means one of which is movable relative to the other, a tracer arm guidingly supported on the movable guide means, said tracer arm having coupling means at one end thereof to be connected to parallax bars and tracing stylus to follow movement thereof over elevational contour

lines derived from the flat reproductions, self-synchronous generators mechanically connected to said tracer arm and guide means to be conditioned each in proportion to a rectangular component of movements of said tracing member along one of two perpendicular reference axes, a follower tool, second perpendicularly related horisontally disposed guide means supporting said follower tool for movement along coordinate horizontal axes, self-synchronous motors mechanically connected to said follower tool, means electrically intercoupling said self-synchronous generators and said self-synchronous motors to drive



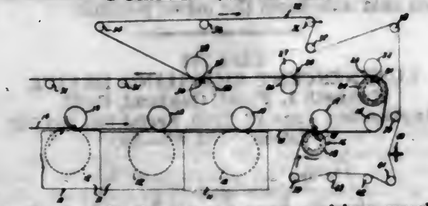
said follower tool in correspondence with the movements of said tracer arm, self-synchronous motors mechanically connected to said follower tool to drive the same along a vertical axis, self-synchronous generator means electrically intercoupled with said last mentioned self-synchronous motor means, and means for manually shifting said last mentioned self-synchronous generator means in preselected increments corresponding with the values of elevational contour lines and parallax bar adjustments to vertically adjust said follower tool to proportionate vertical positions.

2,656,767
TWO-WAY PLOW ATTACHMENT
Homer Dotson, Ringling, Okla.
Application November 28, 1950, Serial No. 197,944
5 Claims. (Cl. 97—29)



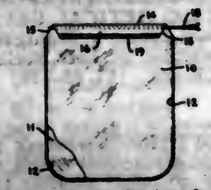
1. In a dual terracing plow attachment for a tractor having a power operated lift device, the combination comprising a pair of plow beams extending generally forward and outward from the rear of the tractor on opposite sides of the longitudinal axis of the tractor, a disc plow at the forward end of each beam, a connecting elbow at the rear end of each beam, and a support plate adapted to be secured to the rear end of said tractor in a substantially horizontal position, said plate having spaced apertures therethrough for receiving the elbows at the ends of said plow beams to form pivotal connections therefor, said elbows being insertable into said apertures alternatively from the underside or from the upper side of said support plate to adjust the height of the rear pivotal connection for said beams, and cable means extending from each said beam intermediate the ends thereof to the power operated lift on said tractor for raising or lowering the plows at the forward ends of said beams.

2,656,768
PRIMARY SUCTION DRUM ASSEMBLY
Roy H. Breyfogle, Alton, Ill., assignor to Alton Box Board Company, Alton, Ill., a corporation of Delaware
Application June 6, 1947, Serial No. 752,863
4 Claims. (Cl. 92—48)



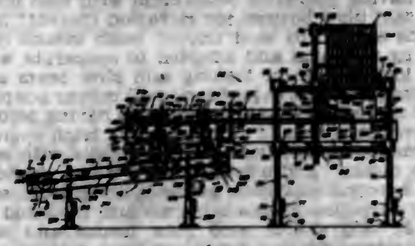
3. In a cylinder type paper making machine wherein a web is deposited from a cylinder mold directly upon a pick-up felt and transported about a turn in contiguous relation with a covering felt and the pick-up felt, the combination of a primary suction press ahead of the turn, said primary suction press having a suction element on the side of the web which is contiguous with the covernig felt, and a second suction press beyond the turn, said second suction press having a suction element on that side of the web which is contiguous with the pick-up felt, said suction elements being in direct contact with the felts respectively.

2,656,769
METHOD OF PRODUCING DRAWSTRING BAGS
Paul B. Hultkrans, Milwaukee, Wis., assignor to Milprint, Inc., Milwaukee, Wis., a corporation of Delaware
Application March 1, 1951, Serial No. 213,356
3 Claims. (Cl. 93—35)



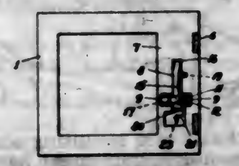
1. The method of producing bag-like containers from sheets of flexible heat sealable materials, which comprises, superimposing a pair of the flat sheets, heat sealing all but one edge of said superimposed sheets to form a bag open along one end, thereafter simultaneously severing superimposed corners of both sheets at opposite ends of said open end to provide corresponding end flaps, positioning a cord about said end flaps within the corner cut-offs, thereafter folding said flaps outwardly and in opposite directions along intermediate portions thereof over said cord and against the adjacent external surfaces of said sheets, and finally heat sealing the folded over portions of said flaps beyond said cord to said sheets to confine said cord within the folds beyond the ends of the sealed bag seam.

2,656,770
AUTOMATIC PARTITION STRIP FEEDING MECHANISM
Simon E. Schroeder, Oshkosh, Wis., assignor to American Partition Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application January 3, 1949, Serial No. 68,955
26 Claims. (Cl. 93—37)



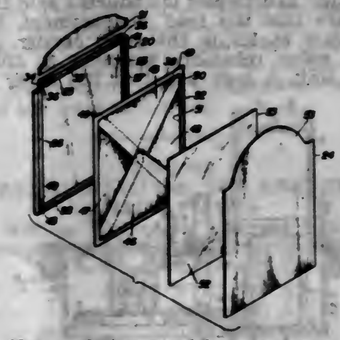
2. Feeding mechanism for a partition assembling machine comprising means for holding spaced stacks of preformed partition strips means for releasing the bottom strip of stacks of preformed partition strips held within said holding means, means for deflecting released strips into edgewise positions, means for maintaining strips in edgewise positions and for guiding the same into predetermined laterally spaced relation, means for advancing edgewise disposed strips towards a partition assembly zone at a substantially constant speed, and means for advancing edgewise disposed strips into and through a partition assembly zone in a step by step movement.

2,656,771
PHOTOGRAPHIC PLATE OR FILM HOLDER
Fritz Victor Hasselblad, Goteborg, Sweden
Application October 16, 1951, Serial No. 251,521
In Sweden November 1, 1947
1 Claim. (Cl. 95—71)



An exposure indicating device for camera photographic plate or film holders comprising a plate holder frame for being detachably connected to the camera, an indicator plate having an indicating mark provided thereon and being slidably mounted on said frame, a wire spring connected at one end to said frame and at its medial portion to said slide for normally tending to retain said slide with its mark in its non-indicating position, a cover pivotally connected to said frame and having a sight opening positioned for viewing the mark on said plate when in its indicating position, a tooth mounted on said cover arranged for pressing against said spring upon the closing of said cover on said plate and tending to move said spring and its plate to its indicating position relative to said cover sight opening, an abutment connected to said frame and positioned with the opposite end of said spring normally retained thereby with said plate in its non-indicating position, means capable of being connected to and operated by the shutter release mechanism trigger of the camera for moving said spring out of engagement with said abutment whereby said plate with its mark is released for moving to its indicating position and said abutment having a tapered side positioned for guiding said spring back into engagement with said abutment during its return movement to its normal position upon the opening of said cover.

2,656,772
FILM PACKET
Abraham Kuranick and Louis Brownstein, New York, N. Y., assignors to Fishburn Enterprises, Inc., New York, N. Y., a corporation of New York
Application February 11, 1950, Serial No. 143,771
4 Claims. (Cl. 95—72)

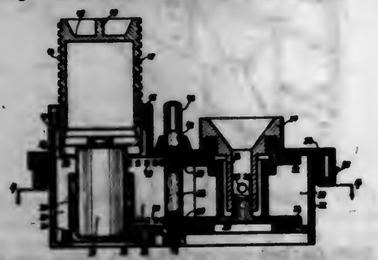


1. A film packet comprising an outer envelope having a back wall and marginal edge portions extending forwardly from the periphery of the back wall and then inwardly to form a front opening, an inner envelope within said outer envelope and having a front opening behind and in substantial registry with the opening of the outer envelope, a sheet of photographic film disposed within said inner envelope with the emulsion side thereof facing the front opening of the inner envelope, and a light-guard slide disposed within the outer envelope between said marginal edge portions thereof and the inner envelope, said marginal edge portions being spaced forwardly from the slide and having inturned edges projecting rearwardly toward the slide and pressing resiliently thereagainst in line contact so as to provide an effective light seal and a yieldable frictional resistance to movement of the slide and also to press the edges of the inner envelope, the film in said inner envelope, and the slide in adjacent coactive relation, and wherein said slide is provided with an extension projecting upwardly above the top of the outer envelope, said extension being of the same width as the slide, and a light-sealing tab of substantially the same width as the slide and extending upwardly from the top of the outer envelope to an intermediate portion of the extension, and wherein the lower end of the tab is fixedly secured to the outer envelope and the upper end of the tab is adhesively attached to the extension, whereby when the extension is moved upwardly the tab will be held to the outer envelope and automatically detached from the extension.

2,656,773
PHOTOGRAPHIC DEVELOPING APPARATUS
Klaus Wiebalck, Munich, Germany
Application February 28, 1950, Serial No. 146,855
In Germany October 28, 1949
5 Claims. (Cl. 95—90.5)

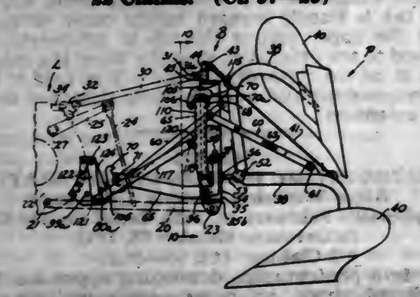
1. In a photographic developing apparatus for sensitized strips, an outer casing including a cover making up together a feed compartment adapted to accommodate a strip carrier and a

developing compartment arranged concentrically around the feed compartment, an upper strip holding member having a spiral groove, a lower strip holding member having a spiral groove registering with the spiral groove of the upper strip holding member, means for interconnecting said strip holding member to form a rigid unit, means permitting rotation and axial sliding of said strip holding unit in said casing and cover, a neck part on the upper strip holding member projecting to the outside through said cover to permit manual handling and formed with a female thread, a tightening sleeve in the form of a hollow cup having a male thread on its outer superficies engaging said female thread, for lighttightly introducing said tightening sleeve into the feed compartment, thereby lighttightly enclosing the strip carrier, a strip driving roller rotatably mounted in the strip holding unit, a gear wheel at the lower end of



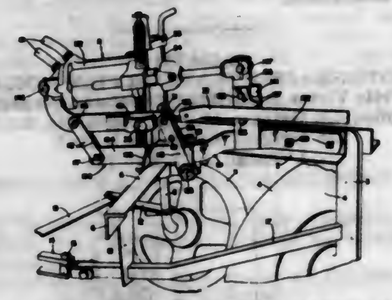
the driving roller, and a toothed rim provided in said casing, said gear wheel being adapted to be brought into or out of meshing engagement with said toothed rim by axial sliding of said strip holding unit in said casing, whereby said driving roller can be rotated as the strip holding unit is turned, and tightening surfaces on said tightening sleeve and on the part of the casing engaged by said sleeve tightening surface, for lighttightly separating the feed compartment from the developing compartment in the lower end position of the sleeve, said threaded tightening sleeve being adapted after engagement of the tightening surface of the sleeve with the counter-tightening surface of the casing, by its further rotation, to cause upward screwing of the female thread of the strip holding unit on the male thread of the threaded sleeve, for moving the gear wheel out of meshing engagement with said toothed rim.

2,656,774
AUTOMATIC TRIP FOR TWO-WAY PLOW
William Fisk Mellen, Whittier, Calif., assignor to Alice Marian Mellen, Whittier, Calif.
Application August 16, 1948, Serial No. 44,483
22 Claims. (Cl. 97—29)



1. In combination in a plow structure: a frame adapted to be supported in upright position by a tractor power lift mechanism; a transverse supporting shaft carried by said frame; a plow beam having pivotal mounting upon said supporting shaft and adapted to swing in a vertical plane, said plow beam carrying a plow bottom to be raised and lowered therewith; a second transverse supporting shaft carried by said frame; a swinging arm mounted upon said second shaft and having operative connection with said beam and said plow bottom for elevation thereof; lock means carried by said frame; latch means carried by said arm and adapted to cooperate with said lock means for locking said plow beam and bottom in operative position; pull means adapted to be connected to said tractor and having pivotal connection with said swinging arm; latch operating means connecting said pull means with said latch means; and a second plow beam provided with a second oppositely pitched plow bottom, said latch operating means being an arm mounted on one of said shafts, said plow beams and said latch operating arm being provided with co-operating cam means whereby said latch-operating arm is shifted upon its supporting shaft as said beams are raised and lowered, and said beams being interconnected whereby one plow bottom descends as the other plow bottom is raised.

2,656,775
POWER LIFT
Orey W. Oerman, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application March 30, 1946, Serial No. 658,391
18 Claims. (Cl. 97—46.31)



1. A detachable ram mounting adapted for use with an agricultural implement having a frame, a ground wheel shiftable relative thereto, and means including a swingable arm connected to shift said frame relative to said ground wheel, said ram mounting comprising a support adapted to be connected with said implement adjacent said swingable arm, a ram-receiving part, means for shiftably mounting said part on said support, means for mounting said support on said frame in a position so that a portion of said ram-receiving part is disposed alongside said swingable arm, means connecting said portion of the ram-receiving part with the swingable end of said arm, and a second ram-receiving member carried by said support in spaced relation with respect to said first mentioned ram-receiving member.

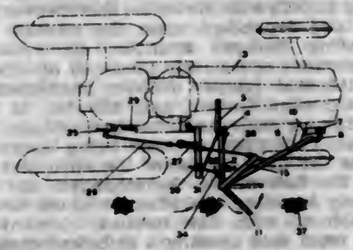
2,656,776
TRACTOR LIFT AND HITCH STRUCTURE
John W. Cox and Lewis M. Cox, Daviess County, Mo.
Application April 12, 1951, Serial No. 220,664
3 Claims. (Cl. 97—46.35)

2. A hitch adapted for attachment to a tractor having spaced lifting actuators as a unit for connecting an implement to the tractor comprising, a rockshaft, means adapted to be secured to the tractor for journalling said shaft for rotation about an axis extending transversely of the tractor, a second shaft perpendicular to the rockshaft and carried thereby whereby said second shaft extends rearwardly of the tractor, a frame journalled on the second shaft for rotation about an axis extending longitudinally of the tractor, spaced rearwardly extending members



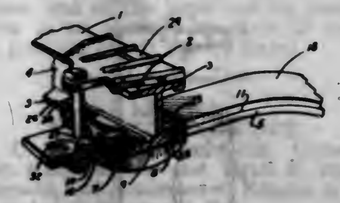
on the frame adapted to be rigidly connected to said implement, and flexible means adapted to connect the implement at spaced points to spaced lifting actuators on the tractor for swinging the implement and frame about the rockshaft, the journalled arrangement of the frame on the second shaft and flexible means connecting the implement to the lifting actuators permitting the implement to follow the contour of the ground as it is drawn in trailing relation to the tractor.

2,656,777
TRACTOR ATTACHED GRUB HOE
Donald R. Mohn, Troutdale, Milburne E. Mohn, Portland, Oreg.
Application August 18, 1949, Serial No. 110,898
1 Claim. (Cl. 97—47.37)
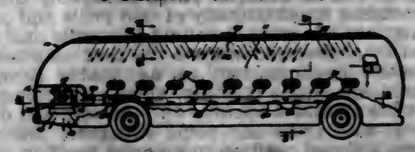


A grub hoe for tractors comprising a vertically disposed tubular bearing, a hollow rotative shaft mounted in the tubular bearing, the upper end of said hollow shaft being bent to form a handle, a series of ratchet teeth formed on the lower end of said hollow shaft, a partition formed in the hollow shaft above the series of ratchet teeth, the partition having an opening, a tubular member rotatably and slidably mounted in the lower end of the vertically disposed tubular bearing, a series of ratchet teeth formed on the upper end of the tubular member normally in mesh with the series of ratchet teeth on the lower end of the rotatable hollow shaft, a partition in the tubular hollow member below the series of ratchet teeth on the upper end of said tubular member, said latter partition having an opening, a bolt having a head engaging the upper surface of the partition in the rotatable shaft, the stem of the bolt extending through the opening in the before-mentioned partitions, an adjusting nut on the lower end of the bolt, a spring interposed between the adjusting nut and the partition in the tubular member, the tension of said spring normally retaining the two series of ratchet teeth in engagement, a grub hoe fixed to the lower end of the tubular member, a brace fixed to and extending from the tubular bearing, means at the end of the brace to universally connect said brace to a tractor, a link pivoted to and extending from the free end of the handle, means on a tractor connected to the link to operate the handle, a second brace extending from the lower portion of the tubular bearing member, means at the free end of the second-mentioned brace to universally connect said brace to a tractor, a lever on the tractor, said lever having a crank at its lower end, a lug on the second-mentioned brace, a swivel connection on the crank, a rod pivoted to the lug and extending through the swivel connection, and a spring mounted on the rod and interposed between the swivel connection and the lug to permit the hoe to ride over obstructions independent of movement of the lever and crank.

2,656,778
OVERRIDING SHANK FOR RESILIENT SHANK PLOWS
William T. Graham, Amarillo, Tex.
Application December 24, 1949, Serial No. 135,010
2 Claims. (Cl. 97—198.1)



1. In a plow including a frame, a resilient shank having a rearwardly and downwardly curved portion extending from the frame, an overriding shank conforming to the shape of the resilient shank and superimposed thereon to control resilience of said resilient shank and having a slotted end, a ground working tool carried by the curved portion of the resilient shank, fastening devices securing the ground working tool to the resilient shank, a clip fixed to the resilient shank by said fastening devices and having a wing portion engaging in said slot of the overriding shank, and means for anchoring the shanks to said frame.

2,656,779
VENTILATION OF PASSENGER COMPARTMENT OF AUTOMOTIVE BUSES
Hendrick E. Simi, Seattle, Wash., assignor to Kenworth Motor Truck Corporation, Seattle, Wash., a corporation of Washington
Application August 21, 1948, Serial No. 45,448
3 Claims. (Cl. 98—10)



2. A ventilating system for the passenger compartment of a vehicle, said system comprising a plurality of roof vents located in rows disposed one row at one side and the other row at the other side of the compartment's longitudinal median

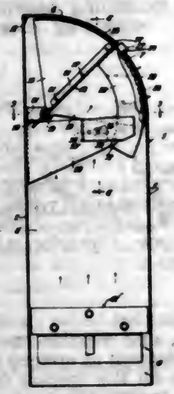
line and with the vents in each row spaced apart longitudinally of the compartment, a respective air-collecting pocket for each of said rows of vents extending longitudinally of the compartment for approximately the full length thereof, said pockets being each open to the interior of the compartment throughout approximately their entire length and being so formed as to serve the office of a baffle in that air introduced through the vents to the respective pocket is diverted from its vertical entering path and delivered through the related said opening horizontally into the interior of the compartment, a longitudinally extending discharge duct located at the approximate floor level of the compartment and provided at spaced intervals of its length with openings through which air from the compartment is discharged into the duct, and suction means for inducing the discharge of air from the compartment into the duct.

2,656,780
CONVECTION HEATER
Benjamin Spieth, Racine, Wis., assignor to Modine Manufacturing Company, Racine, Wis., a corporation of Wisconsin
Application March 15, 1948, Serial No. 14,968
11 Claims. (Cl. 98—40)



1. A convection heater comprising in combination, a cabinet having a front panel, end panels, a back wall and a top member, the front panel being of less height than the cabinet with its lower edge spaced from the bottom of the cabinet to leave an air inlet opening, and with its upper edge spaced below the top member to leave an air outlet opening, a heating element supported in the cabinet above and adjacent the air inlet opening, a grille positioned in said cabinet and extending from the lower edge of the air outlet opening inwardly across the ascending air path to the rear wall, said grille including air outlet openings and air deflector strips contiguous thereto extending longitudinally of said grille and projecting into the cabinet behind the grille and inclined in a direction toward the first mentioned air outlet opening, and an adjustable damper for said air outlet opening, swingably mounted above the air outlet opening and the adjacent portions of said grille and being swingable inwardly from a closed position to an open position, and said damper in any of its adjusted positions with respect to the grille adapted to aid in the direction of the air flow through the grille to the air outlet opening.

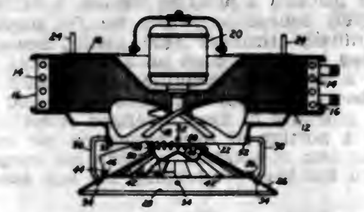
2,656,781
ADJUSTABLE OUTLET CONVECTOR ENCLOSURE
Benjamin Spieth, Racine, Wis., assignor to Modine Manufacturing Company, Racine, Wis., a corporation of Wisconsin
Application February 5, 1949, Serial No. 74,790
5 Claims. (Cl. 98—40)



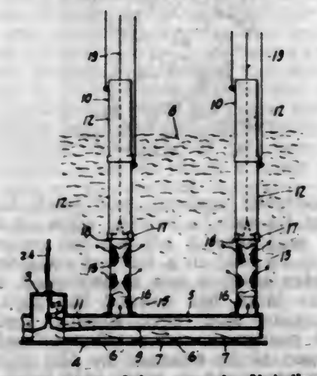
1. In a convector enclosure, the combination of a cabinet having an air inlet therein adjacent the lower portion thereof and an opening therein adjacent the top thereof, said cabinet being adapted to receive and support a heating element therein with such element positioned intermediate said inlet and said opening, a modulating damper member movably mounted in said cabinet and adapted to form a closure for the opening in the cabinet and also forming the end of the circulation stack formed by the cabinet, said damper pivotally mounted contiguous to the rear wall of the cabinet, an edge of said modulating damper member being movable relative to an edge of said opening to define an air outlet therebetween varying in size dependent upon the position of the modulating damper member, an ornamental grille element operatively mounted on and movable with said damper member positioned adjacent said edge thereof and adapted to extend across the air outlet so formed, movement of said modulating damper member being operative to increase the effective size of the air outlet and to direct the flow of air therethrough and simultaneously increase the effective stack height of the cabinet, with the heating element being spaced from said opening a sufficient distance to permit the grille, when in its closed position, to be positioned substantially within said cabinet, and means including an arcuate shaped member operatively mounted on said modulating damper member, and biasing means complementally formed to the arcuate shaped member and operatively mounted on the cabinet for maintaining said modulating damper in any of its adjusted positions.

2,656,782
ADJUSTABLE AIR DISTRIBUTOR
Otto A. Labus, La Crosse, Wis., assignor to The Trane Company, La Crosse, Wis.
Application January 3, 1950, Serial No. 136,567
5 Claims. (Cl. 98—40)

1. A distributor for directing the flow of an air stream flowing from an outlet comprising a frusto-conical annular air directing member adapted to be supported in spaced relationship to an outlet, a central hub, a plurality of vanes pivoted to said frusto-conical annular air directing member and to said central hub, the pivotal axes of said vanes lying substantially in the same conical surface as the frusto-conical annular air directing member.



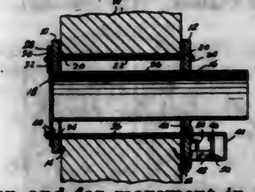
2,656,783
MOW HAY DRIER
Byron F. Heal, Waukesha, Wis.
Application July 8, 1950, Serial No. 172,693
6 Claims. (Cl. 98—56)



1. In a mow hay drier, an air distributing duct system comprising a main air duct, a plurality of lateral branch ducts spaced along and extending from said main duct along the floor of the mow, said branch ducts having side openings along substantially the entire length thereof to discharge air into the mow near the floor level on opposite sides of each duct, a corresponding duct substantially coextensive therewith disposed above each branch duct and opening into said main duct to receive air therefrom, each of said upper ducts having spaced upward openings therein for the discharge of air upwardly through columns in the hay, and valve means disposed to control the admission of air from the main duct to said branch ducts and said corresponding upper ducts to cut off the discharge of air through said upward openings until the mow has been filled to a predetermined depth.

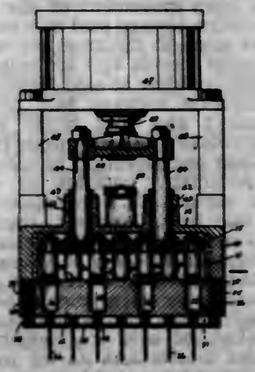
2,656,784
EXHAUST FOR CLOTHES DRIERS
Ralph A. Benson, McKeesport, Pa.
Application June 9, 1952, Serial No. 292,535
7 Claims. (Cl. 98—115)

1. An air exhaust for clothes dryers comprising: a pair of plates adapted to be mounted upon the inner and outer surfaces, respectively, of a building wall; an exhaust duct extending between said plates adapted at one end to be connected in communication with the air outlet of a clothes dryer and having its other end opening to atmosphere through one of the plates; a closure panel swingably connected to said one plate for adjustment to opposite, extreme positions in one of which it engages said other end of the duct to close the same, and in the other of which it is swung outwardly from said end of the duct; and means to shift the panel to the respective extreme positions thereof including a latch rod connected at one end to the panel and extending in substantial parallelism with the duct, said latch rod being loosely mounted in the plates



for rotation and for movement in the direction of its own length, a keeper on the other plate disposed to engage the other end of the latch rod on rotation of the latch rod in one direction in the outwardly swung position of the closure panel, and a latch member on the other plate having a portion spaced outwardly from said other plate a greater distance than the keeper, said portion being disposed for engagement with said other end of the latch rod on rotation of the same in an opposite direction in the duct-closing position of the closure panel.

2,656,785
MEAT CURING DEVICE
Alfred C. Gannon, Indianapolis, Cornelius E. Kilby, Knightstown, and Virgil E. Rupp, Indianapolis, Ind., assignors to Kingan & Co., Incorporated, Indianapolis, Ind.
Application October 7, 1949, Serial No. 120,178
2 Claims. (Cl. 99—257)



1. A fluid control device including a housing enclosing a fluid reservoir, a cylinder having a fluid receiving end and a discharge at the opposite end, a normally closed vacuum check valve in said discharge end, a plunger extending into said cylinder through said receiving end, said plunger having a bore between its entering end and the adjacent wall thereof, a sealing ring in said cylinder adjacent its fluid receiving end in sealing contact with said plunger, power means connected with said plunger for moving it through a suction stroke to draw a vacuum in said cylinder and admit fluid thereto upon said bore being freed from said sealing ring, and mov-

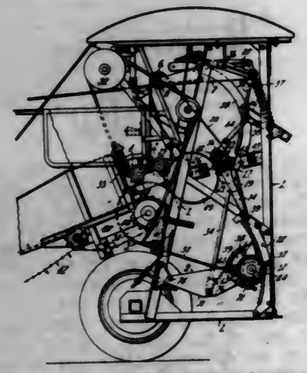
ing it through a pressure stroke to force the fluid from said cylinder through said check valve when sealed by said ring, and means for adjusting the pressure stroke of said plunger.

2,656,786

SOFT CENTER BALE ATTACHMENT

Paul H. Harrer, La Porte, Ind., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

Application August 7, 1952, Serial No. 303,083
8 Claims. (Cl. 100—88)



1. In a baling machine of the type comprising a frame, a bale rolling belt, and a tensioning arm for said belt mounted on said frame for swinging movement between bale starting and bale finishing positions, the combination of a torque transmitting element rotatably mounted on said arm and operatively connected with said frame so as to rotate in one direction relative to said arm upon movement of the latter from said bale starting toward said bale finishing position and so as to rotate in the opposite direction relative to said arm upon movement of the latter from said bale finishing toward said bale starting position, a brake element mounted on said arm for rotation relative thereto and for swinging movement therewith relative to said frame, a one-way driving connection between said torque transmitting element and said brake element for transmitting rotation of said torque transmitting element in said one direction to said brake element and permitting rotation of said torque transmitting element in said opposite direction relative to said brake element, complementary brake means including a friction element in cooperative engagement with said brake element and rotatable with the latter relative to said arm, and lost motion connecting means between said complementary brake means and said arm permitting rotation of said complementary brake means relative to said arm during initial movement of the latter from said bale starting toward said bale finishing position.

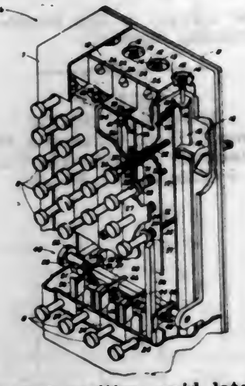
2,656,787

KEY-OPERATED TYPE POSITIONING DEVICE

William F. Koch, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey

Continuation of abandoned application Serial No. 37,812, July 9, 1948. This application October 2, 1951, Serial No. 249,330
5 Claims. (Cl. 101—93)

1. In a type positioning mechanism of a weighing scale printing device, in combination, at least one bar having printing type spaced along a portion of its length, guide means for guiding the bar through a printing station, a drive link operatively connected to the bar for moving it longitudinally through said guide means, an elongated bar pivoted on an axis parallel to its length, a laterally extending arm on said elongated bar which arm is connected to said drive link, a plurality of keys arranged selectively to engage a portion of said elongated bar remote from its axis of rotation, a latch bar cooperating with the keys for holding the last operated



key in operated position, said latch bar being pivotal on its axis, a beveled edge on said bar adjacent said keys, a collar fixed on each key adapted to be held in a latched position by the beveled edge when a key is depressed, a spring urging the latch bar toward the keys, spring means urging said keys toward their non-depressed positions, and a ridge on said latch bar adapted to be engaged by the collar of a key being depressed to pivot said latch bar on its axis and thereby release any previously latched key.

2,656,788

ADJUSTABLE PRINTING HAMMER

Frank R. Werner, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Original application November 3, 1948, Serial No. 58,114. Divided and this application September 1, 1951, Serial No. 244,768
8 Claims. (Cl. 101—95)



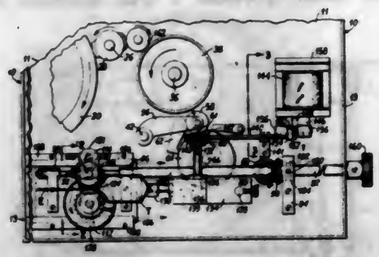
1. In a machine of the class described, the combination of type carriers, a printing hammer for taking impressions from the type carriers, a cam to actuate the printing hammer, a tapered roller adjustably mounted on the hammer and coacting with the cam whereby the cam actuates the printing hammer, said roller adjustable longitudinally on the printing hammer to select a section of the tapered roller for coaction with the cam whereby the hammer is adjusted in respect to the type carriers to vary the degree of impact of the hammer against the type carriers when the hammer is actuated by the cam, and resilient means to maintain the roller in contact with the cam at all times.

2,656,789

CIGARETTE MACHINE INKING MECHANISM

Henry L. Bechtold, Grantwood, N. J., assignor to American Machine & Foundry Company, a corporation of New Jersey

Application May 14, 1949, Serial No. 93,237
10 Claims. (Cl. 101—350)



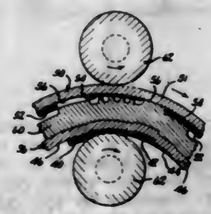
3. An inking mechanism for use with a printing machine, comprising an ink receiving surface, an oscillatable arm, an ink transfer roller mounted on said arm, a pawl mounted on said arm, a shaft, a ratchet mounted on said shaft and engaged by said pawl, means for oscillating said arm to cause said pawl to engage said ratchet and turn said shaft on one movement of said arm, and to cause said transfer roller to deliver ink to said surface on the return movement of said arm, a worm on said shaft, a second shaft, a worm wheel engaging said worm mounted on said second shaft, a worm on said second shaft, a third shaft, a worm wheel driven by said last-named worm loosely mounted on the third shaft, a ratchet fixed to said third shaft, a pawl on said last-named worm wheel engaging said last-named ratchet, an ink delivery device having an ink passageway, a source of supply of ink, a conduit connecting said source of supply of ink to said device, and means driven by said last-named pawl and ratchet for feeding ink from said source of supply through said conduit to said delivery device for transfer by said transfer roller to said ink receiving surface.

2,656,790

MAKING READY CYLINDRICAL PLATES

Frank E. Reilly, Winnetka, Ill., assignor to Electrographic Corporation, New York, N. Y., a corporation of Delaware

Application May 13, 1950, Serial No. 161,848
11 Claims. (Cl. 101—401.3)



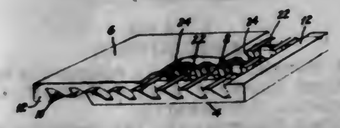
11. The process of making ready cylindrically curved relief printing plates which comprises forming a stereotype mat from a flat printing plate or form of the same size and design as the plate to be made ready and a fibrous and slightly moist flong which shrinks on drying principally in a direction circumferentially of the cylindrical plate to be underlaid, drying the mat until the mat is in substantial radial register with the concave face of the curved plate with which it is to be used and forming from the mat an underlay having thicker portions corresponding to the solid printing areas of the curved plate, which will radially register with the curved plate when used as an underlay, forming an overlay for the curved plate having thicker portions corresponding to the non-printing areas of the plate, positioning the overlay over the face of the cylindrically curved plate and the underlay on the back of the cylindrically curved plate and deforming the plate by pressure applied radially of the plate to raise the solid areas of the printing face of the curved plate.

2,656,791

TYPE-POSITIONING BLOCK ASSEMBLY

Charles F. Tilghman, Berkeley, Calif.

Application June 15, 1948, Serial No. 33,107
1 Claim. (Cl. 101—402)



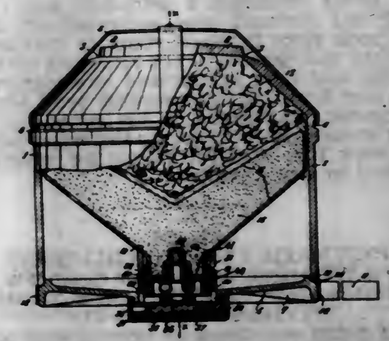
A type-positioning block comprising a solid block of substantially rectangular form having a plurality of parallel ribs running transversely thereof at an acute angle to the plane of said block on one side only and over an area from one end edge to a point spaced from the other end edge, thereby leaving an end section of normal block thickness, said ribs being of a reduced height and spaced to provide complementary channels for the reception of ribs of a similar block, and a plurality of spaced longitudinal ribs intersecting said transverse ribs and of a height comparable thereto, said transverse ribs being grooved between said longitudinal ribs to provide channels complementary to the corresponding longitudinal ribs of such similar block.

2,656,792

ANTITANK MINES

Jacques Dumas, Paris, France, assignor to Etablissements Edgar Brandt, Paris, France, a French company

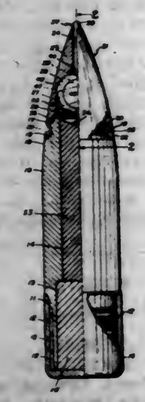
Application January 25, 1949, Serial No. 72,560
In France February 5, 1948
7 Claims. (Cl. 102—8)



1. Anti-tank mine comprising in combination: a rigid water-proof hollow outer body formed of a side portion, a top connected to said portion by means of a weakened line adapted to break under the load of a tank and a rigid bottom provided with a central opening, a removable plug secured

in said opening, a rigid vessel which is slidably mounted in said side portion under said top and which is provided with a convex bottom having a central aperture, an auxiliary plug secured in said aperture, an explosive charge located in said vessel and in contact with said auxiliary plug, a spacing tube which is interposed between said convex bottom and said removable plug and which is provided with lines of fracture so as to break when said vessel and its charge are urged towards said removable plug by said top detached from said body by a tank passing over the mine and a main firing device located in said spacing tube between said plugs and comprising, from said auxiliary plug to said removable plug, a detonator located in said auxiliary plug, and two devices which are spaced apart from one another and adapted to produce flames by their mutual contact.

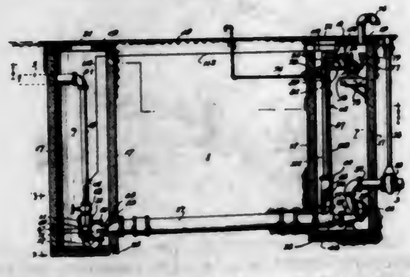
2,656,793
AMMUNITION
John D. Howell, Ilion, N. Y., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application December 13, 1945, Serial No. 634,743
2 Claims. (Cl. 102—80)



1. A projectile fuse comprising a housing having therein a rearwardly opening recess and a forwardly opening aperture communicating with said recess, a shouldered firing pin in said aperture and projecting into said recess, a rotor in said recess containing a detonator, and a normally flat surfaced, edge supported soft metal disk press fitted into said recess in engagement with the rear portion of the rotor and normally holding said rotor in unarmed interengagement with said firing pin, said member being adapted for plastic deformation by the setback of said rotor incident to firing and to thereafter support said rotor free of said firing pin for centrifugal rotation to armed position.

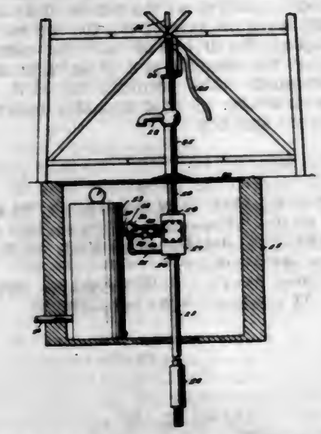
2,656,794
PNEUMATIC PUMPING EQUIPMENT
Joe Williamson, Jr., Daytona Beach, Fla.
Application September 23, 1950, Serial No. 186,327
17 Claims. (Cl. 103—25)

1. A pump comprising an underground piping system for conveying sewage and other fluids, a length of pipe and means connected into said length of pipe for locally increasing the pressure head of the fluid flowing through said pipe, said means including a pair of spaced apart underground structures positioned along said pipe the section of pipe between said underground structures sloping downwardly in the direction of flow therefrom, an inlet assembly in said pipe which includes a uniflow valve, said inlet assembly being disposed in the upstream structure, an outlet assembly in said pipe which is disposed in the other of said structures, and includes a V-bend which provides a trap disposed below



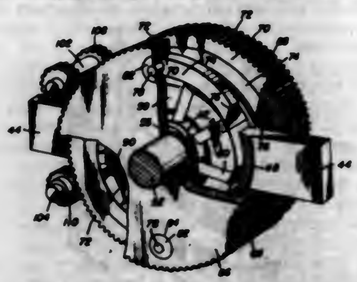
the level of said pipe, a source of pressure air, a vent line, means connecting said section of pipe to said source of pressure air and to said vent line, and control means operable to connect, alternately, said section of pipe to said source of pressure air and to said vent line in response to changes of the level in said section of pipe of the material being pumped.

2,656,795
WATER SYSTEM
Clarence O. Messing, Gilead, Nebr.
Application September 20, 1949, Serial No. 116,649
3 Claims. (Cl. 103—39)



1. In a water supply system including a water reservoir and a pump, a vertical reciprocatory pump rod drivingly connected to said pump, a chamber, a first vertical sleeve connecting the bottom of said chamber to the outlet of said pump and surrounding the lower portion of said rod, a second vertical sleeve connected to the top of said chamber and surrounding the upper portion of said rod, a partition in said chamber defining an upper and a lower space therein, said rod extending slidably and sealingly through said partition, first conduit means connecting said lower space to said reservoir, a check valve in said first conduit means, additional conduit means connecting said lower space to said upper space, and pressure responsive valve means in said additional conduit means.

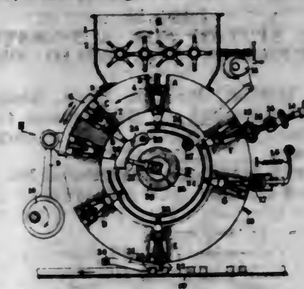
2,656,796
UNIDIRECTIONAL, ROTARY VARIABLE DELIVERY FLUID PUMP
Lawrence M. Garner and Edward S. McConnohie, Covert, Mich.
Application September 25, 1947, Serial No. 776,120
5 Claims. (Cl. 103—120)



1. A uni-directional, rotary variable delivery fluid pump comprising: a stator; a shaft journaled in said stator, a rotor on said shaft, said rotor being provided with a plurality of radially slidable vanes adapted for impelling a fluid; a rotor housing defining a pump chamber around said rotor and movable with respect to said stator for varying the capacity of said pump, said rotor housing including a pair of disks concentric with and rotatable with respect to said shaft and disposed on opposite sides of said rotor, and a pair of axially spaced inner rings encircling said rotor and having their inner and outer circumferences eccentric with respect to each other; said stator having a pair of aligned guide chambers therein communicating with said pump chamber between said rings on diametrically opposite sides of said rotor; slides received in said guide chambers, said slides together with said rings, extending the full width of said pump chamber; inter-connecting means between said slides and said inner rings, said means permitting circumferential movement of said inner rings with respect to said slides and preventing radial movement of said inner rings with respect to said slides; means eccentrically journaling said inner rings on said disks and means for selectively rotating said disks and thereby moving said inner rings in a straight line direction parallel with the central axis of said guide chambers; means providing a first fluid passage communicating between the outside and inside of said stator on one side of said guide chambers axis, and means providing another fluid passage communicating between the outside and inside of said stator on the opposite side of said guide chambers axis, movement of said chamber in one direction causing fluid to flow through the chamber and passages in one direction and movement of said chamber in the opposite direction reversing said flow of fluid.

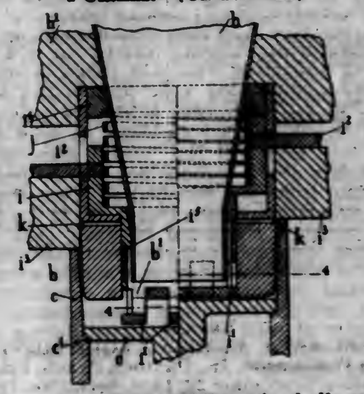
2,656,797
ROTARY MACHINE FOR COMPACTING LOOSE MATERIAL TO SOLID PRISMATIC LUMPS
Jean Louis Chambon, Paris, France, assignor to Societe d'Etudes de Machines Speciales, Paris, France
Application January 19, 1950, Serial No. 139,523
In France January 27, 1949
5 Claims. (Cl. 107—8)

1. In a machine to compact a loose material to solid lumps having a feeding hopper to be filled with the loose material and a molding drum located below the feeding hopper, a structure of said molding drum comprising a frame, a rotary drum mounted with its axis horizontal in the frame, said drum being bored, on the one hand in its peripheral portion with radial cavities arranged in rows parallel to the axis of the drum, said rows being arranged in a plurality of series of rows around the drum and, on the other hand, in its inner portion with radial slots parallel to the axis of the drum, each of said slots communicating with the radial cavities of one of the series of the rows of the radial cavities, a piston located in each radial cavity, a slide located in each slot, followers carried by said slide inside of the drum, connecting rods having each one end



linked to a piston and the other end linked to the slide located in the slot communicating with the radial cavity in which the said piston is located, a cam system on the frame, inside the hollow drum controlling the radial movement of the followers during the rotation of the drum a movable plate rotatably sliding on the peripheral portion of the drum and covering at least one of the series of the rows of the cavities, and means to impart to said plate a reciprocating movement, a part of said reciprocating movement accompanying the rotation of the drum with substantially the same speed.

2,656,798
AUTOMATIC MACHINE FOR MOLDING PIE SHELLS FROM DOUGH
Graeme Reid Mercer Miller, Stepps, Glasgow, Scotland
Application October 9, 1947, Serial No. 778,874
In Great Britain July 10, 1947
4 Claims. (Cl. 107—15)



1. A machine for moulding pie shells embodying at least one hollow male die of a formation corresponding to the interior of the pie shell to be moulded, the base of said die having at least one through slot therein and the wall being also provided with a through slot therein, a sleeve slidable within said die to uncover and cover the slot in its base and to cover and uncover the

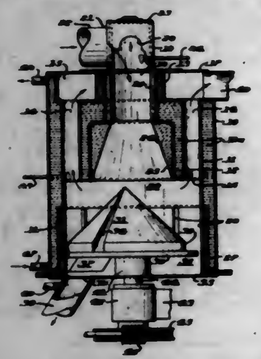
inner end of the said slot in the wall, a female die of a formation corresponding to the exterior of the mould, feed means by which dough fed to the interior of the male die is extruded through the slot in its base when uncovered, and means to move the female die and the sleeve with respect to the male die so that the slot in the base of the male die is sealed, the extruded dough moulded between the dies to form the pie shell and the surplus extruded dough returned to the interior of the male die, through the slot in the wall thereof.

2,656,799

CONTROL SYSTEM FOR AUTOMATICALLY FED FURNACES FOR SOLID ORGANIC FUELS

Willard J. Hatten, Jackson, Mich., assignor, by mesne assignments, to Bituminous Coal Research, Inc., Washington, D. C., a corporation of Delaware

Application September 9, 1949, Serial No. 114,771
2 Claims. (Cl. 110—101)



1. In a control system for a residential stoker-fed furnace for bituminous coal or the like, apparatus comprising in combination, a combustion chamber in said furnace adapted to contain a fuel bed, said combustion chamber having an upper restricted frusto-conical portion and a lower unrestricted portion, said fuel bed being adapted to extend upwardly into said frusto-conical portion and be confined thereby, a stoker for feeding such coal generally downwardly into said frusto-conical portion, driving means for said stoker, a blower for supplying combustion air generally downwardly into said frusto-conical portion, means responsive to the static pressure of said combustion air adjacent its area of entrance into said fuel bed, means responsive to the pressure of the gaseous combustion products emanating from said fuel bed adjacent the area of said emanation, means responsive to the differential pressure registered between said both-mentioned pressure responsive means and adapted to control said driving means, whereby when said differential pressure exceeds a predetermined amount, said driving means is disconnected from said stoker at least for the period during which such differential pressure exceeds said predetermined amount.

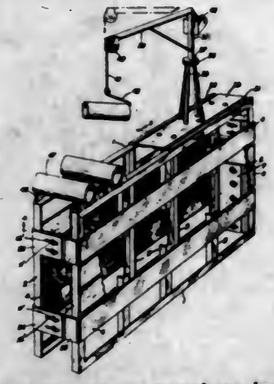
2,656,800

PIPE LAYING APPARATUS

Francis M. Reising, Edinburg, Tex.

Application May 2, 1946, Serial No. 666,717
1 Claim. (Cl. 111—5)

In a shoring box a pair of spaced side frame members including vertical and horizontal reinforcing elements, end wall plates adjustably connecting the ends of said frame members, means for securing the end portions of said plates together in adjusted position, a hoist platform supported at the top of said frame structure, means for maintaining the platform centrally between the side frames of the structure during



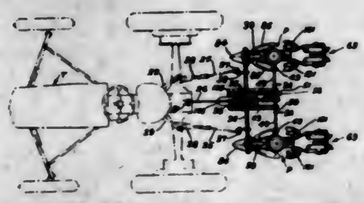
adjustment of the frame members including inwardly projecting plates lying in a common plane, said plates being formed with elongated slots, and fastening means carried by said platform and slidable in said slots, and a hoist mounted on said platform substantially centrally thereof, said hoist being retainable medially of the side frames due to the adjustability of the platform.

2,656,801

TRACTOR BORNE PLANTER ATTACHMENT

Harold V. Hansen, Winnebago, Ill., and John T. Murphy, Haywood County, Tenn., assignors to Harry Ferguson, Inc., Detroit, Mich., a corporation of Delaware

Application August 5, 1947, Serial No. 766,830
1 Claim. (Cl. 111—59)



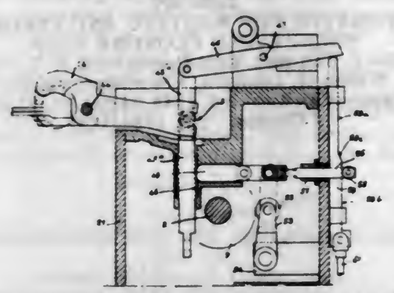
A planter attachment having a unitary structure susceptible of being mounted upon a tractor and bodily raised and lowered relative to the ground, said attachment comprising, in combination, a horizontally disposed transverse tool bar having means for connecting the same to a tractor, a pair of transversely spaced trailingly disposed bracket arms having their forward ends rigidly fixed to said tool bar, a dispenser drive shaft disposed transversely of said bracket arms and journaled thereon adjacent the trailing ends thereof, a driven element fixed to said dispenser drive shaft, a pair of planter units mounted on said tool bar in spaced transversely alined relation with said dispenser drive shaft, said shaft being disposed between said units, each said planter unit comprising a gooseneck rigidly clamped to said tool bar and extending rearwardly and downwardly therefrom, a lister bottom fixed to the lower end of said gooseneck, a pair of frame plates secured against the sides of said gooseneck and extending rearwardly therefrom to form a boxlike bracket, a seed dispenser straddling said boxlike bracket and firmly fixed thereon, said seed dispenser having a drive means alined with and connected to said dispenser drive shaft, supporting means fixed to the lower end portion of said gooseneck and extending rearwardly therefrom, a furrow opener fixed to said supporting means in trailing relation to said lister bottom, a seed tube extending downwardly from said seed dispenser between said frame plates and terminating at the trailing end of said furrow opener, a cross bar rigidly fixed to said frame plates and spaced rearwardly therefrom, a pair of furrow closers mounted in depending relation from said cross bar, a press wheel frame having a leading end disposed between said frame plates and pivoted thereto and a trailing end mounting a press wheel, said press wheel frame being disposed above said cross bar, resilient means interconnecting said cross bar and said press wheel frame for application to said press wheel frame of a yieldable downward force toward said cross bar, and means for driving said driven element.

2,656,802

PRESSER DEVICE FOR SHOE SEWING MACHINES

Paul Actis, Fontaine, France

Application December 6, 1949, Serial No. 131,460
In France December 17, 1948
2 Claims. (Cl. 112—61)



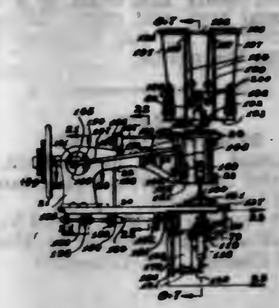
1. In a machine for sewing shoe soles with lock stitches, the combination of a single common camshaft, a presser foot, a bar adapted to lock the presser foot in its inoperative position, a cam on the camshaft, a lever controlled by said cam and adapted, when operated by said cam, to urge last mentioned bar into its inoperative position, a shaped rod of varying thickness slidingly engaging the outer end of the locking bar and registering in its inoperative position with the outer end of the locking bar through a part of reduced thickness of said shaped rod and adapted to urge said outer end of the locking bar in a direction releasing the latter with reference to the presser foot through a part of greater thickness, a pedal controlling the position of the shaped rod with reference to the locking bar, means controlling the movement of the presser bar between its operative and inoperative positions, and submitted to the action of the shaped bar when pushed by the pedal beyond the position corresponding to the release of the locking bar, a plurality of further operative components of the machine, a plurality of solid cams secured to the camshaft, cam followers operatively associated with the periphery of last mentioned solid cams and adapted to impart selectively to the different operative components the movements to be assumed thereby, springs urging the cam followers against the corresponding cams and an oil-filled casing in which the camshaft is revolubly carried with its cams extending underneath the level of the oil bath inside said casing.

2,656,803

TUFTING MACHINE FOR PRODUCING ORNAMENTAL DESIGNS

Julius Montgomery, deceased, late of Dalton, Ga., by Delray Montgomery, administratrix, Dalton, Ga., assignor to Lawtex Corporation, Dalton, Ga., a corporation of Georgia

Application September 19, 1952, Serial No. 310,522
18 Claims. (Cl. 112—79)



1. In a tufting machine for sewing a design in a fabric base, means for supporting the fabric base, a planetary carrier arranged upon one side of the fabric base supporting means, means to rotate the planetary carrier, a planet mounted upon the planetary carrier for carrying a needle, means to turn the planet upon its axis including a stationary sun-gear and a coacting gear engaging the sun-gear, means to reciprocate the planet axially of the planetary carrier, a second planetary carrier arranged upon the opposite side of the fabric base supporting means, means to rotate the second planetary carrier, a second planet mounted upon the second planetary carrier, means to turn the second planet upon its axis including a stationary sun-gear and a coacting gear engaging the sun-gear, a looper mounted upon the second planet, and means to reciprocate the looper.

2,656,804

SHOE SEWING MACHINE NEEDLE

Fred C. Eastman, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

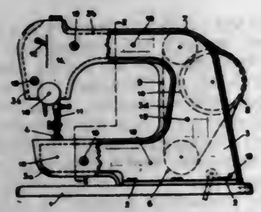
Application November 17, 1950, Serial No. 196,162
3 Claims. (Cl. 112—222)



2. A chain stitch shoe sewing machine needle comprising a stem of uniform circular cross sec-

tion curved in the arc of a circle and provided with a hook opening to one side of a plane defined by the needle curvature and facing the completed stitches in a seam inserted by the needle, said stem having straight and curved thread guiding grooves extending from the needle hook inside and outside of the needle curvature to direct both thread lengths extending from a loop while engaging the needle into side by side relation inside the curvature of the needle and a sharpened point centered about the solid section of the needle stem opposite the hook, said curved groove extending from the hook opening outside the curvature of the needle to an outlet inside the needle curvature and being of a uniformly ample sectional area and depth throughout its length required for the full diameter of thread employed with the needle.

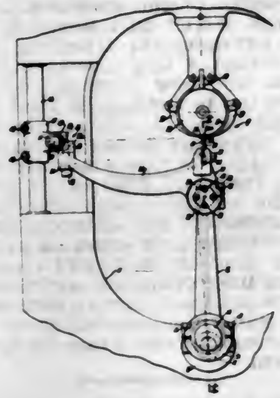
2,656,805
SEWING MACHINE
Charles Reinhold, Geneva, Switzerland, assignor to Gallaz and Co., Geneva, Switzerland, a corporation of Switzerland
Application November 15, 1950, Serial No. 195,862
In Switzerland November 23, 1949
7 Claims. (Cl. 112—258)



1. In a sewing-machine, the combination of a base; a supporting standard of substantially C-shaped, plate formation rising from said base; a sewing needle and presser foot assembly operatively mounted across the open mouth of said supporting standard; drive mechanism mounted on said supporting standard, and comprising a series of drive wheels operatively interconnected by a drive belt, the wheels of said series being mounted for rotation on respective axes which are perpendicular to the plane of said supporting standard; and a substantially similarly C-shaped housing enclosing said supporting standard and the said drive mechanism mounted thereon.

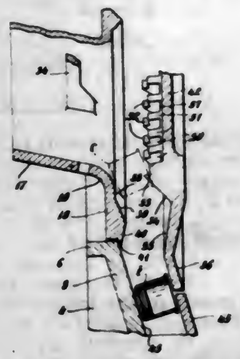
2,656,806
CAN BODY MAKER
Ed Laxo, Oakland, Calif.
Application June 2, 1950, Serial No. 165,617
5 Claims. (Cl. 113—12)

2. A can body side seam forming machine comprising a frame, a mandrel for supporting can bodies with their hooks interlocked, and a bumper having a working edge for bumping said interlocked hooks to flatten the same and form a side seam; said machine also comprising a guide for said bumper pivotally mounted at one end on said frame for rotation about a single pivot axis which is parallel to the plane of and is located substantially in the plane of said side seam, said bumper being connected to the other end of said guide, said guide constraining the working edge of said bumper to movement in a circular arc having its center on said pivot axis and which passes through said side seam, the tangent to said arc at its point of intersection with the side seam being substantially perpendicular to the plane of the side seam, said machine also comprising driving means for driving



the bumper through said arc, said driving means acting directly on the bumper so as to impose substantially no bending moment on said guide at the instant of seam formation.

2,656,807
APPARATUS FOR SORTING AND FEEDING RECEPTACLE CLOSURE CAPS
John C. Johnson, East Hempstead, N. Y., and Walter H. Johnson, Newmanstown, Pa.
Application March 8, 1948, Serial No. 13,604
3 Claims. (Cl. 113—114)



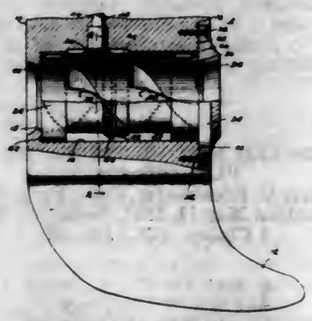
1. In apparatus for sorting and feeding closure caps, a hopper casing having a discharge opening, a drum rotatably mounted with one end in register with the discharge opening of the hopper casing and having a flange extending from the second end of the drum and arranged with an annular ridge on the exposed face thereof, and a disk rotatably mounted in spaced relation to the flanged end of the drum and having an annular series of protuberances equidistantly spaced from each other on the inner face and spaced inwardly from the periphery of the disk, and said inner face of the disk having an annular groove spaced from the periphery of the disk and in opposed relation to the ridge of the flange of the drum to form an angular passage to permit passage of closure caps having the open ends facing the protuberances.

2,656,808
METHOD OF PRODUCING HEAT EXCHANGE ELEMENTS
John Piumeri and Arpad L. Reisinger, Trenton, N. J., assignors to Kramer Trenton Company, Trenton, N. J., a corporation of New Jersey
Application March 7, 1947, Serial No. 733,020
4 Claims. (Cl. 113—118)



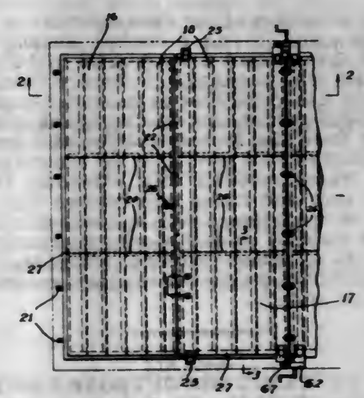
1. A method of producing a circularly apertured heat exchange fin designed and adapted for assembly in thermal contact and in substantially uniformly spaced relationship with respect to other similar fins on a round tube of heat exchange apparatus which includes the following steps: providing sheet material suitable for the formation of such a fin; drawing a portion of said material into cup form having a diameter greater than the designed final diameter of the fin aperture; progressively increasing the depth and decreasing the diameter of the said cup portion until its diameter equals the said designed final diameter; and without any previous cutting or scoring operation forming with a single punching operation within the cup and through its bottom a tube receiving aperture of the same diameter as the cup, and a thermal contact and fin spacing element having a lateral extent greater than one-half the diameter of said aperture and consisting of a flange composed of the side of the cup and surrounding the aperture with lateral projections composed of the bottom of the cup extending from the peripheral edge of the flange in substantially the same direction as the flange.

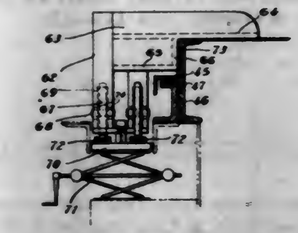
2,656,809
COMBINATION RUDDER AND PROPULSION DEVICE
James W. Frasure, Clyde, Ohio
Application June 25, 1951, Serial No. 233,347
1 Claim. (Cl. 114—151)



In a combination rudder and propulsion device of the type employed with an outboard motor a substantially vertical rudder post, a rudder carried by the post at the lower end thereof, said post having a substantially horizontal opening extending therethrough adjacent the rudder and a bore opening through one side of the post in concentric relation to the opening, the axis of the opening lying parallel to the rudder, antifriction bearings mounted in the bore adjacent opposite ends thereof, a sleeve mounted in said bearings for rotation about the longitudinal axis of the bore, a spiral blade within the sleeve and connected thereto for rotation therewith, a ring gear carried on the exterior of the sleeve for rotation therewith between the bearings, a pinion mounted in the post for rotation about a vertical axis between the bearings, said pinion having driving connection with the ring gear, and a ring shaped cover removably carried by the post for enclosing the bearings.

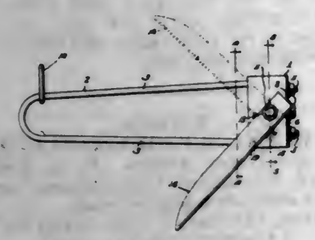
2,656,810
HINGED WHEEL-SUPPORTED HATCH COVER
Karl W. Jernstrom, Verona, N. J., assignor to Seaboard Machinery Corporation, New York, N. Y., a corporation of New York
Application February 7, 1948, Serial No. 6,877
4 Claims. (Cl. 114—201)





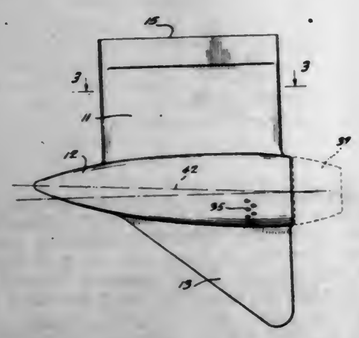
1. In combination with a hatch opening surrounded by a coaming, a hatch cover comprising two cover assemblies hinged to opposite ends of the hatch opening, at least one of said assemblies having two or more sections hinged together, each hinged assembly being provided with wheels at its outer edge adapted to roll along the edge of the hatch opening outwardly of said coaming and support the assembly during opening and closing operations, a member secured to the outer edges of each said cover assembly located inwardly of said wheels, said member providing an inverted channel, a gasket in said channel, a projection on said coaming adjacent said channel and contacting said gasket when the hatch cover is closed, a platform located at the edge of the hatch opening outwardly of said coaming in the path of said wheels in the area of said wheels when the hatch cover is closed, and means for raising and lowering said platform to and from the level of the edge of the hatch opening to bring said gasket and said projection into and out of contact when the hatch cover is closed.

2,656,811
BOAT ANCHOR
Denver D. McRae, Ivanhoe, Tex.
Application August 21, 1951, Serial No. 242,867
4 Claims. (Cl. 114—208)



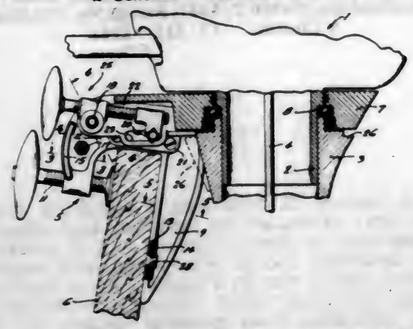
1. In an anchor of the class described, a frame of plate metal having a central portion and a pair of frame arms extending at right angles from said central position, a shank formed from a strip of flat metal bent at its center to provide an arcuate portion and having shank arms diverging from the arcuate portion and provided with inturned ends resting on the central portion of the frame, securing bolts extending the inturned ends and frame and holding the shank rigidly on the frame, a ring for cable attachment slidably engaged on said shank, stock arms projecting in alinement outwardly from the frame arms, and fluke members swingingly mounted on said stock arms.

2,656,812
GEAR CASE UNIT FOR OUTBOARD MOTORS
Elmer C. Kiekhaefer, Cedarburg, Wis.
Application May 11, 1951, Serial No. 225,814
8 Claims. (Cl. 115—17)



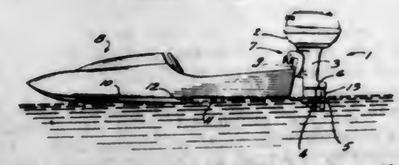
1. In an outboard motor, a gear case including a narrow streamlined vertical strut and an enlarged torpedo at the lower end of the strut having opposite ends extending forwardly and rearwardly thereof, a gear chamber formed within said torpedo, said torpedo having outer dimensions approximately developed by rotation of an arc on a chord and having a radius of between 135 and 145% of the length of the chord, said chord forming an angle with the horizontal of approximately 3° and with the forward end of the torpedo raised whereby a reduced boundary layer of water passes over the upper side of the torpedo and is subject to less disturbance by said strut.

2,656,813
BRACKET MOUNTING FOR OUTBOARD MOTORS
Elmer Carl Kiekhaefer, Cedarburg, Wis.
Application August 13, 1948, Serial No. 43,982
2 Claims. (Cl. 115—18)



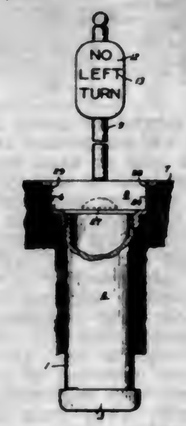
2. In an outboard motor, a clamp bracket for securing the motor to the transom of a boat and comprising spaced clamp members, a swivel bracket supporting the motor for steering adjustment on a vertical axis and pivotally supported by said clamp bracket between said members for tilting and other adjustment of the motor on a transverse horizontal axis, spaced inclined ways formed in each of said bracket members rearwardly of said pivotal connection and above the transom of the boat, a cross bar carried at each end by a corresponding bracket member within said ways, a threaded draw bar swivelly supported by said bearing sleeve and connecting the same and said cross bar to move the latter forwardly and rearwardly in said ways, said swivel bracket being supported by said cross bar in the normal operation of the motor and adapted for relative adjustment on said bearing sleeve respecting the transom, a separate member pivotally supported by said bearing sleeve on each side of said swivel bracket and between the latter and the corresponding clamp and having slots through which said cross bar extends into the ways whereby said members are supported and moved to correspond with the adjustment of said swivel bracket, each of said members having lugs extending inwardly beneath said swivel bracket, and a flange carried by said motor and adapted to engage the underside of said lugs to prevent tilting of the motor in a reversed direction.

2,656,814
OUTBOARD MOTOR-DRIVEN HYDROPLANING BOAT
Elmer C. Kiekhaefer, Cedarburg, Wis.
Application May 11, 1951, Serial No. 225,812
1 Claim. (Cl. 115—18)



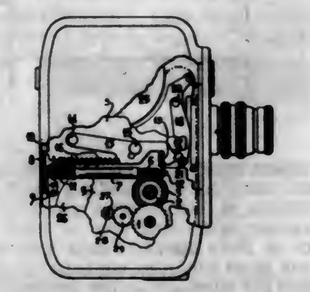
In combination, a boat having a given displacement at low speeds and having planing surfaces supporting the boat as a hydroplane above a critical speed, a dirigible outboard motor unit secured to the rear end of said boat to drive the same and having a forward thrust propeller disposed rearwardly from the trailing edge of the rear planing surface of the boat a distance at least as great as the diameter of the propeller and extending to a depth beneath said planing surface approximately equal to the radius of the propeller whereby said propeller is wholly submerged during operation below said critical speed to operate with maximum thrust and the full blade area and is partially submerged for normal operation at planing speeds, said propeller being dirigible with the motor and adapted to maintain the directional control of the boat by the lowermost blades of the propeller.

2,656,815
TRAFFIC SIGNAL
Michael J. Downey, San Francisco, Calif.
Application June 25, 1951, Serial No. 233,420
3 Claims. (Cl. 116—63)



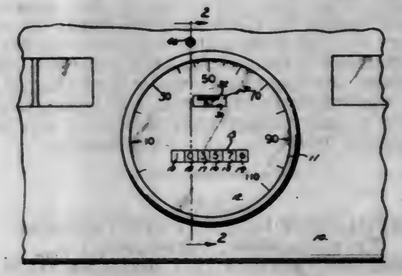
1. A traffic signal comprising a housing including a belled head at its upper end, a base loosely fitting in the belled head in upright and upside down position, a post fixed in the base and in the upside down position extending to adjacent the bottom of the housing, and a sign carried by the post.

2,656,816
REEL END ALARM
Jules Favre, Neuchatel, Switzerland, assignor to Paillard S. A., Sainte-Croix, Switzerland, a company of Switzerland
Application May 31, 1951, Serial No. 229,038
In Switzerland June 5, 1950
5 Claims. (Cl. 116—67)



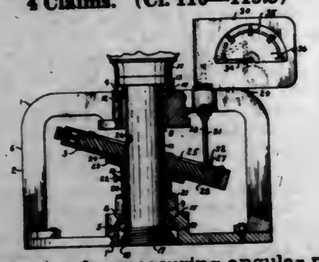
1. A mechanism for visually indicating the length of a film wound and audibly signaling a predetermined length thereof comprising a frame, a reel in the frame for delivering the film, a second reel in the frame for winding the delivered film, a first gear journaled in the frame and driven by the second reel, a second gear meshing with the first gear and including a shaft, a spring urging the shaft to a certain position of rotation, means journaling one end of the second gear shaft and pivoted to the frame, a second means pivoted to the frame and journaling the other end of the second gear shaft, a second spring urging the second journaling means to a position meshing the two gears, an indicator disc fixed to the second gear shaft and including a lug, a stationary lug fixed to the frame and engageable by the disc lug and thereby holding the shaft and gear against rotation in one direction, the second gear thus held against rotation being radially displaced by the first gear to unmeshing position and moving the second means for journaling the second gear shaft against the force of the second spring whereby both springs urge the second gear to a position meshing with the first gear and the noise of impact of both gears signals that a predetermined film length has been wound, and manually operable means engaging the second journaling means and disengaging the second gear from the first gear.

2,656,817
OIL CHANGE INDICATOR
Lewis L. Jones, Purvis, Miss.
Application March 11, 1952, Serial No. 275,950
1 Claim. (Cl. 116—114)



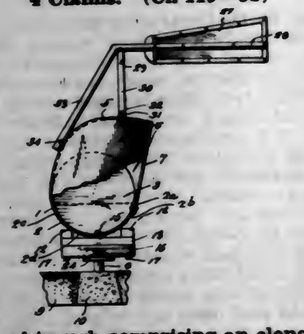
A device of the character described comprising, in combination with a vehicle having an instrument panel and a conventional speedometer mounted therein, said speedometer including a casing, a face plate for said casing, a framework in said casing, and total mileage indicator cylinders, the provision of means operable by one of said cylinders indicating when a change of oil is necessary for said vehicle, said means including a window in said face plate, a plurality of radially extending circumferentially spaced pins affixed to the outer periphery of said one cylinder, a bell crank lever pivoted to said framework and having an upper arm and a lower arm, said lower arm being in the path of movement of said pins, said upper arm being movable into and out of registry with said window and having indicia thereon visible through said window when said arm is in registry therewith, a weight attached to said upper arm for holding said upper arm upon either side of the pivotal point of said lever, a reset lever pivoted to the rear of said panel and adapted to move said upper arm out of registry with said window, a shaft affixed to said reset lever and extending through said panel, and a button affixed to the free end of said shaft.

2,656,818
APPARATUS FOR MEASURING RELATIVE ANGULAR MOVEMENTS
William D. Moore, Kansas City, Mo., assignor to Brunson Instrument Co., Kansas City, Mo., a corporation of Missouri
Application September 13, 1948, Serial No. 48,957
4 Claims. (Cl. 116—115.5)



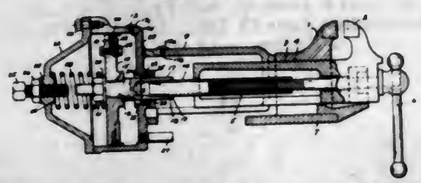
1. Apparatus for measuring angular movement of rotation of relatively rotatable members comprising, a stationary member, a rotatable member, bearing means on the stationary member supporting the rotatable member for rotation about a defined axis and retaining same against relative lateral and longitudinal movement, a plane surface on one of said members at a predetermined fixed angle to the axis of rotation, said plane intersecting said axis, a reference point on the other member positioned whereby said plane surface progressively approaches said reference point through 180° of rotation of the rotatable member and progressively recedes from said reference point in the other 180° of rotation in completing one revolution of the rotatable member, means for measuring the linear distance between the reference point and plane surface on a line parallel to the axis and at a constant radius therefrom, and means responsive to change in the linear measurement resulting only from relative rotation of said members for indicating the relative angular movement of said members.

2,656,819
WIND CONTROLLED FEED TROUGH
Theodore Meier, Darrouzett, Tex.
Application August 13, 1951, Serial No. 241,614
4 Claims. (Cl. 119—51)



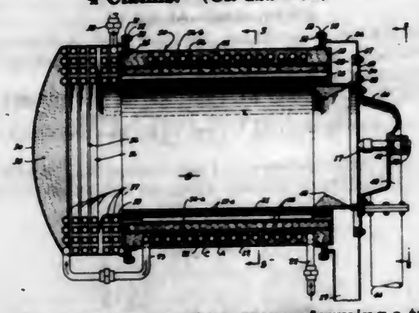
1. A feed trough comprising an elongated body having an annular wall and heads at its ends, the annular wall being detached from the heads about the upper portion of the circumference thereof and extending upwardly and thereby providing a trough shaped body having a bottom and front and rear side wall portions, the detached portion of said annular wall extending upwardly and forwardly over said body and constituting a hood integral with the rear side wall and having its front edge spaced upwardly from the front wall of the body, plates rigidly mounted against outer surfaces of said heads and extending upwardly therefrom and secured along their margins to end edge portions of said hood and constituting reinforcements for the heads and supports for the hood, a cradle mounting said body for turning movement about a vertical axis, and a vane mounted over the hood.

2,656,820
POWER-OPERATED VISE
Philip S. Becker, Fairview Township, Erie County, Pa.
Application March 16, 1948, Serial No. 15,079
1 Claim. (Cl. 121—38)



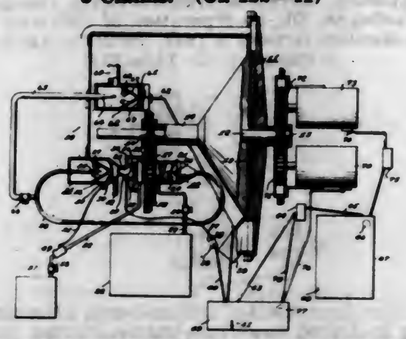
Fluid operated means for power operating the movable jaw of a vise comprising an open cylinder having a wall with an axial bore and counterbore, a piston slidable in said cylinder, a connecting member between said piston and said movable jaw of said vise slidable axially with said piston and extending through the bore in said cylinder, fluid means for urging said piston for moving said movable jaw, and a U-shaped ring disposed in said counterbore in the wall of said cylinder, said U-shaped ring having the free ends thereof extending toward the inner side of said cylinder and also having the end portions of the inner leg of said U-shaped ring in engagement with said connecting member flared outwardly away from said connecting member whereby a lubricant may pass under said ring in either direction while said ring maintains a seal.

2,656,821
STEAM GENERATOR
William A. Ray, North Hollywood, Calif.
Application June 24, 1946, Serial No. 678,781
4 Claims. (Cl. 122—33)



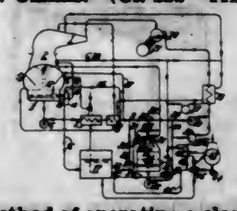
1. In a steam generator: means forming a tubular furnace adapted to contain a fluid medium; means forming a combustion chamber in free communication with one end of said furnace; a plurality of flues spaced about and extending through the fluid medium containing portion of said furnace for conducting the products of combustion from said chamber; means forming a transverse refractory surface in said chamber against which gases passing from the furnace impinge, said surface serving to direct the gases to enter said flues; and a conduit forming a separate liquid passage, said conduit having a portion of its length extending through the fluid medium containing portion of said furnace, and another portion of its length disposed in said combustion chamber.

2,656,822
STEAM GENERATING SYSTEM FOR VEHICLES
Roland Williams, San Francisco, Calif.
Application January 16, 1951, Serial No. 206,130
3 Claims. (Cl. 122—41)



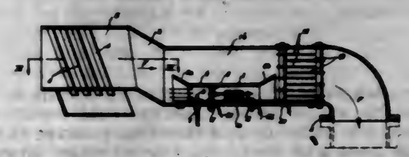
1. A steam generating apparatus comprising a vaporization chamber, a heater adjacent said vaporization chamber and arranged to elevate at least one wall of the chamber to a high temperature substantially above the boiling point of water, a water reservoir, a pump connected to said reservoir, a supply conduit connected to said pump, a spray nozzle in said vaporization chamber connected to said supply conduit, a generally conical, centrally apertured partition wall secured in said vaporization chamber around said nozzle and located between said nozzle and said wall, said nozzle being directed through the aperture in the partition wall against the wall of the chamber, said partition wall having a plurality of steam escape ports therein to permit the passage of steam therethrough, and a steam outlet conduit connected to said chamber on the side of said partition wall opposite the first-named wall.

2,656,823
BOILER FEED SYSTEM
Harold Hillier, Glasgow, Scotland, assignor to G. & J. Weir Limited, Cathcart, Glasgow, Scotland, a company of Great Britain and Northern Ireland
Application March 1, 1949, Serial No. 78,960
In Great Britain January 28, 1949
7 Claims. (Cl. 122—441)



6. The method of operating a closed feed water system including a steam boiler, a condenser for the condensation of steam initially generated by the boiler and a deaerator for deaerating the water to be supplied to the boiler, which method comprises passing a stream of condensate from the condenser into the upper portion of the deaerator to be deaerated, passing a stream of deaerated water from the lower portion of the deaerator, passing a portion of the deaerated water of said last-mentioned stream under pressure into the boiler as feed water therefor and passing the remaining portion thereof through a conduit into the stream of condensate flowing from the condenser to the deaerator, withdrawing air and non-condensable gases from the upper part of the deaerator by applying suction thereto, and deaerating the combined stream introduced into the upper portion of the deaerator comprising the stream of condensate from the condenser and said remaining portion of the stream of deaerated water passed from the lower portion of the deaerator.

2,656,824
ELECTRIC APPARATUS FOR DECOMPOSING LIQUIDS AND ITS USE AS A GASOLINE ECONOMIZER
Raymond H. P. Devaux, Tangier, Tangier
Application August 11, 1949, Serial No. 109,798
In France March 22, 1949
11 Claims. (Cl. 123—25)

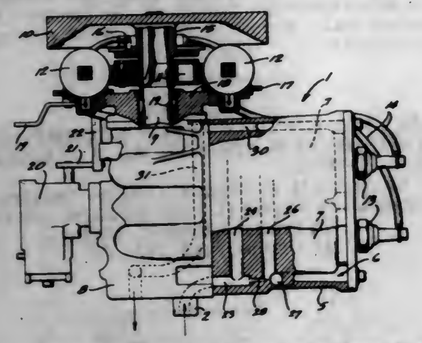


11. A fuel economizer for an engine, capable of feeding said engine with substantially an even proportion of detonating gas obtained by decomposition in a gaseous flow of an even proportion of water sucked in a suitable tank and atomized in said gaseous flow whatever be the rate of delivery of said flow, comprising in combination an atomizer and a high voltage spark gap, said atomizer comprising a tube of insulating material through which the gaseous current flows and a small diameter jet connected to said tank and radially disposed in said tube with its orifice on the axis of said tube; said high voltage spark gap being arranged down-stream with respect to said atomizer and comprising, at least one high voltage source, a rotating electrode made of a metal air-screw freely rotating around a shaft coaxial with said tube, and at least one stationary electrode secured on the inner wall of said tube, in front of said air-screw and radially spaced from the ends of the blades of said air-screw a distance at most equal to the sparking distance corresponding to the voltage of said source, and electric connections for connecting said both electrodes to said high voltage source, whereby the gaseous flow causes sucking and atomizing of said water as a function of its speed, rotation of said air-screw at a speed substantially in direct ratio with its own, and the discharge between said electrodes of a number of sparks adjusting itself to the rate of delivery of said flow.

2,656,825
CONTROLLED VARIABLE COOLANT SYSTEM FOR ENGINES
Marvin E. Hartz, Milwaukee, Wis., assignor to Kiekhaefer Corporation, Fond du Lac, Wis., a corporation of Wisconsin
Application December 6, 1950, Serial No. 199,426
7 Claims. (Cl. 123—41.13)

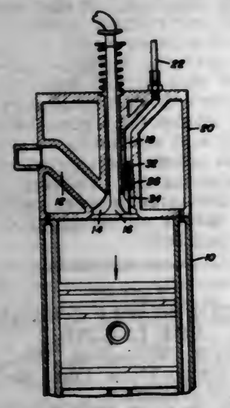
1. In an engine having speed control means movable to high and low speed positions of ad-

justment, a coolant chamber, a standing passage extending above the height of and adjacent to said chamber and communicating at its lower end with the lower level of said chamber, water supply means operated by said engine and connected with the upper end of said supply passage for delivery of water thereto during the operation of the engine, a water discharge passage from the upper level of said chamber, a passage connecting said discharge passage and the upper end of said standing passage at a level above said chamber, and valve means controlling said conduit and coordinated with said speed control



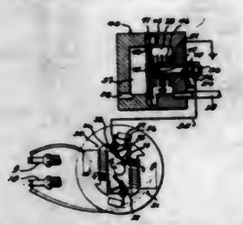
means whereby when said control means is adjusted to a low speed position said conduit is open to the water in said standing passage at said higher level and the circulation of water through said chamber obtains corresponding to the pressure effected by the water maintained in said standing passage above said chamber and discharge passage and independently of any greater delivery of said supply means, and when said control means is adjusted to a high speed position said conduit is closed to the water delivered to said standing passage and the circulation of water through said chamber is directly effected by the delivery of said supply means.

2,656,826
EXHAUST VALVE COOLING ASSEMBLY
Charles W. Galuska, Burbank, Calif., assignor of fifty per cent to Lois Edwards, Burbank, Calif.
Application September 30, 1952, Serial No. 312,371
4 Claims. (Cl. 123—41.17)



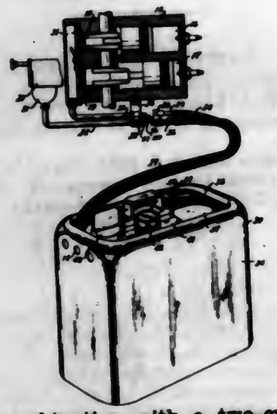
1. A cooling system for the exhaust valve of an internal combustion comprising a conduit connected to a source of cooling fluid and to the exhaust port of an internal combustion engine, valve means controlling flow through said conduit, means for synchronizing movement of said valve means to movement of said exhaust valve whereby cooling fluid is admitted to said exhaust valve port when the exhaust valve is closed, said last means being actuated by the head of the exhaust valve.

2,656,827
IDLING CONTROL FOR TWO-CYCLE ENGINES
Warren C. Conover, Waukegan, Ill., assignor to Outboard, Marine & Manufacturing Company, Waukegan, Ill., a corporation of Delaware
Application October 3, 1951, Serial No. 249,528
8 Claims. (Cl. 123—117)



1. For the control of idling speeds of substantially load-free, two-cycle engines having valve-controlled intake manifolds, and spark plug ignition, the combination of a normally open vacuum-operated ignition-shorting switch, and a closed vacuum line operatively connected for the operation of said switch and leading thereto from said manifold for the closing of said switch when the vacuum in said manifold becomes excessive.

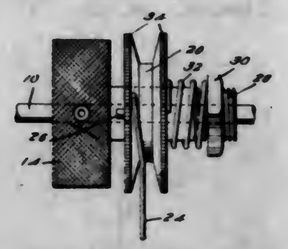
2,656,828
FUEL SUPPLYING MEANS USING CRANK-CASE PRESSURE DEVELOPED IN A TWO-CYCLE ENGINE FOR DELIVERING FUEL TO THE CARBURETOR
Warren C. Conover, Waukegan, Ill., assignor to Outboard, Marine & Manufacturing Company, Waukegan, Ill., a corporation of Delaware
Application October 1, 1949, Serial No. 119,085
18 Claims. (Cl. 123—139)



1. The combination with a two-cycle engine having a crank case in which pressure and vacuum are alternately developed as an incident to engine operation, of a remote fuel tank, a supply pipe from the tank to the engine and a pressure communicating conduit having a control valve

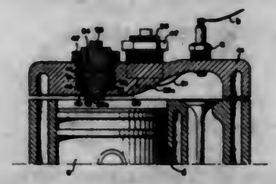
and leading from said crank case to said tank for communicating to the tank pressure developed in said crank case, said control valve constituting means for closing said conduit when the crank case is under vacuum whereby the tank is continuously under pressure.

2,656,829
STARTER FOR INTERNAL-COMBUSTION ENGINES
Lee H. Crippen, Lansing, Mich.
Application August 2, 1950, Serial No. 177,230
1 Claim. (Cl. 123—179)



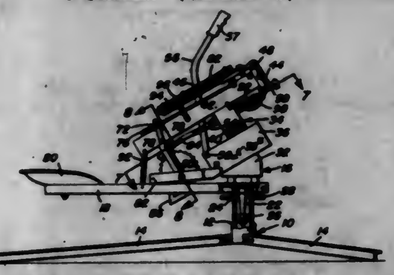
In a starter for internal combustion engines, including the crank shaft of the engine, a rotor having an axial bore to receive said shaft and a second bore extending diametrically through the same and communicating the axial bore, a set screw threaded inwardly of the opposite ends of said second bore to secure the rotor on said shaft, a tubular axial extension integral with said rotor and having its free end threaded, a grooved pulley mounted for free rotation on said extension, clutch pins carried by said pulley, the opposed side of said rotor having apertures to receive said pins, a coil spring on said extension acting to urge the pulley toward said rotor to force the clutch pins into engagement with said apertures, means on the periphery of said pulley for the attachment of an end of a pull cord thereto, and a nut on the threaded end of said extension for adjusting the tension of said spring.

2,656,830
INTERNAL-COMBUSTION ENGINE
Eugene J. Houdry, Ardmore, Pa.
Application March 19, 1951, Serial No. 216,347
8 Claims. (Cl. 123—191)



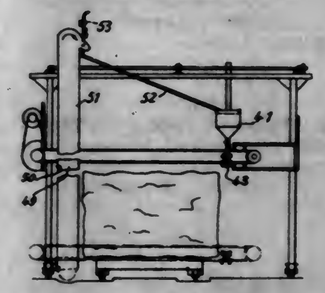
1. In combination with an internal combustion engine of the reciprocating piston type, a cylinder head having auxiliary openings extending from the exterior of the engine to the combustion chamber of each cylinder, a removable plug assembly occupying each of said auxiliary openings, said plug assembly being adapted to be inserted in and removed from said openings from the exterior of the engine, and when inserted in said openings providing a readily replaceable catalytic surface exposed within the combustion chamber.

2,656,831
VARIABLE THROWING ANGLE TARGET PROJECTOR
George J. Puth, Appleton, Wis.
Application March 24, 1952, Serial No. 278,159
6 Claims. (Cl. 124—9)



1. A target projector comprising a base, a frame rotatably supported on the base, a target throwing mechanism vertically pivotally mounted on the frame and including a swingable throwing arm, a spring member attached to said arm for imparting swinging movement to the arm, a cocking lever pivotally mounted on the mechanism and engaging the spring member to extend the latter as the lever is pulled rearwardly, a holder forming part of the mechanism for engaging and holding the arm retracted, said arm being engaged with said holder during forward movement of the lever, releasing means for the holder actuated by said lever during rearward movement of the lever, and means carried by the mechanism engaging said frame and actuated by said lever for adjusting the mechanism about its pivot.

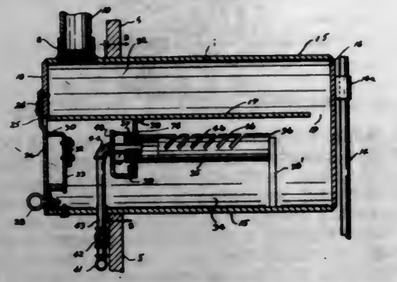
2,656,832
MACHINE FOR SAWING STONES AND THE LIKE
Fernand Perrier, Neauphle-le-Chateau, and Gaston Lemoine, Auteuil par Theiry, France
Application April 12, 1951, Serial No. 220,552
In France April 15, 1950
5 Claims. (Cl. 125—21)



1. In a stone-sawing machine, the combination of a frame, an endless chain carried by said frame and including a plurality of similar interconnected links, means controlling the progression of the chain along a path engaging the stone, frictional shoes carried by at least a number of said links on their outer surfaces and adapted to operatively cut the stone, a trough assuming cross-sectionally the shape of a U and surrounding at a small distance the sides and the outer part of the portion of the chain in register with the section of the path of said chain just ahead of the point at which it is about to engage the stone, lever arms the ends of which are pivotally connected with said trough and with the frame respectively, a spring urging the

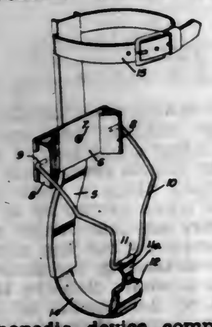
trough into fluidtight contacting relationship with the surface of the stone facing the chain strand entering it and means for feeding abrasive material into said U-shaped trough to further the progression of the stone-cutting shoe inside the stone.

2,656,833
GAS HEATER
William O. Moran, Tulsa, Okla.
Application October 14, 1948, Serial No. 54,451
11 Claims. (Cl. 126—85)



1. In a gas heater for heating an enclosure having at least one vertical wall, said heater being adapted to withdraw air for combustion from the outside atmosphere and to discharge flue gases into the outside atmosphere while heating the interior of the enclosure, a laterally closed casing adapted to be partially inserted through the wall of said enclosure, a perforated air inlet door at the end of said casing adapted to be positioned exterior of said wall, a flue gas discharge conduit connected with said casing to discharge flue gases exterior of said enclosure, a burner tube within said casing at a point in spaced relation to and interior of said air inlet door, means to stabilize the rate of air flow into said casing, the rate of flue gas discharge from said casing and the flow of primary and secondary air to said burner tube, said stabilizing means comprising parallel vertical baffles extending generally transverse to said burner tube and disposed in spaced, predetermined relationship between said air inlet door and said burner tube.

2,656,834
ORTHOPEDIC DEVICE FOR THE ANKLE
Nathan R. Hatkoff, Westport, Conn.
Application July 6, 1951, Serial No. 235,450
8 Claims. (Cl. 128—80)



2. An orthopedic device comprising a rigid vertical member adapted for placing at one side of a leg, an upper leg strap engaging the upper portion of said member to exert an inward pulling force thereon, means connected to a medial portion of said vertical member and adapted for extending downwardly therefrom to an opposite lower side of the leg and adapted to bear against the side of the heel, and adjustable flexible means connecting the lower portion of said first named means to the lower portion of the vertical member and extending transversely under the foot in the region of the heel to exert an upward and lateral force on the heel.

2,656,835
INTRAVENOUS ATTACHMENT
Edward Eisenstein, Los Angeles, Calif.
Application February 1, 1952, Serial No. 269,511
2 Claims. (Cl. 128—214)



1. A device of the class described comprising a tubular member adapted to be incorporated in the conduit leading from a source of fluid supply to an intravenous needle adjacent the intravenous needle, said tubular member having a flexible lateral branch conduit connected through and communicating therewith intermediate its ends, and self-sealing means closing the outer end of the branch conduit enabling one or more hypodermic needles to be inserted therein to supply an additional fluid or fluids to the tubular member and upon withdrawal of the hypodermic needles to self-seal against ingress.

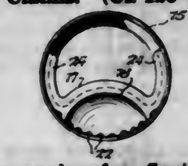
2,656,836
HYPODERMIC SYRINGE
George M. Hickey, Paoli, Pa., assignor to J. Bishop & Co. Platinum Works, a corporation of Pennsylvania
Application September 26, 1950, Serial No. 186,841
5 Claims. (Cl. 128—218)



1. In a glass syringe adapted for sterilization and repeated usage, a glass barrel having a substantially cylindrical, smooth integral glass tip at one end thereof of reduced diameter with respect to the barrel, said tip having an axial bore extending therethrough opening to the interior of the barrel and a flat end face normal to the axis thereof, a metal tip formed with a socket for reception of said glass tip and having a press fit thereon, said metal tip having a tapered nozzle for reception of the hub of a hypodermic needle and an axial bore through said nozzle opening into said socket, said bores in said glass and metal tips being of the same diameter and

in axial alignment and a synthetic plastic fillet under compression between and conformed to the facing surfaces of the end of the glass tip and the bottom of said socket, said plastic fillet having an axial bore therethrough of the same diameter as and in axial alignment with the bores in said glass and metal tips and communicating therewith and being formed of a deformable non-toxic organic synthetic plastic material capable of withstanding sterilizing temperatures and chemically inert with respect to drugs and medicines administered by hypodermic injection, the bores in said glass and metal tips and interposed fillet forming an effluent passage from said barrel having a continuous unbroken wall surface.

2,656,837
DEVICE FOR FACILITATING THE SWALLOWING OF PILLS, TABLETS, CAPSULES, AND THE LIKE
Freel F. Bryan, Buffalo, N. Y.
Application July 6, 1951, Serial No. 235,530
6 Claims. (Cl. 128—222)



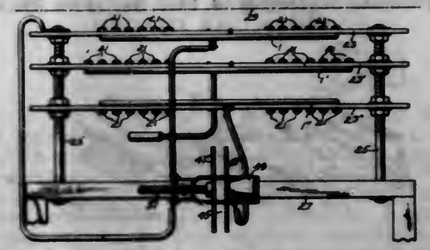
1. A device made of a flexible resilient material for facilitating the swallowing of small objects, which comprises a body portion having a recessed part open at the upper end and one side thereof, said side being formed to cooperate with the interior of a drinking vessel to form with said vessel a receptacle for the objects, said recessed part having formed therein passages for a liquid contained in said vessel, through which said liquid may flow when said vessel is tilted for drinking, and arms extending straight outwardly from opposite sides of said body portion and which are flexed to conform to and frictionally grip the interior of a vessel below the upper edge thereof, for supporting the objects to be swallowed until the vessel is tilted for drinking.

2,656,838
COLOSTOMY UNIT
Glenn McConnell, Pontiac, Mich., assignor of one-third to Melba McConnell, Pontiac, Mich.
Application October 24, 1952, Serial No. 316,721
6 Claims. (Cl. 128—283)



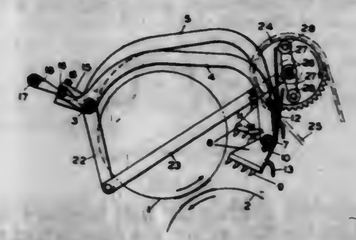
1. A colostomy appliance comprising a plate, a belt adapted to embrace the body of a patient, fasteners detachably securing said belt to opposite sides of said plate, said plate having an opening adapted to be disposed in registry with a body discharge orifice of a patient, a colostomy bag disposed on the front of said plate and having a neck portion extending through said opening, a retaining means on the back of said plate having a snap engagement with the rim of the plate opening and clamping the neck portion to said plate, said retaining means having a hood extending through the plate opening and into the neck portion and distending said neck portion.

2,656,839
ELECTROTHERAPEUTIC OSCILLATOR
Clarence B. Heward, Oakland, Calif.
Application February 14, 1950, Serial No. 144,083
4 Claims. (Cl. 128—422)



1. In an oscillation generator, a multi-frequency oscillating circuit comprising a plurality of substantially concentric conductive rings each having a gap therein, the gaps in successive rings being angularly displaced with respect to each other, and bridging connections between each two successive rings, said connections extending from a point adjacent the gap of one ring to a point intermediate the ends forming the gap of the next ring to provide a quasi-spiral current path through said rings with a plurality of dead-end conductors branching off between turns of said spiral.

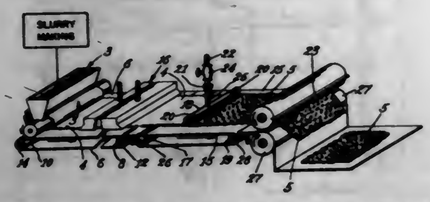
2,656,840
TOBACCO SPREADER FOR CIGARETTE MAKING MACHINES
Rudolf Fellmann, Prague, Czechoslovakia, assignor of one-half to The Skoda Works, National Corporation, Pisen, Czechoslovakia
Application May 2, 1950, Serial No. 159,446
In Czechoslovakia July 9, 1949
5 Claims. (Cl. 131—109)



1. In a tobacco spreader for cigarette making machines including a tobacco feed drum and a tobacco scraper drum cooperating therewith, the improvement comprising in combination a plurality of flat-faced tamping bodies to compress the tobacco upon said feed drum, said bodies mounted in front of the bite of said drums, an up and down swinging support for each tamping body, an articulate connection between each of said supports and each tamping body to support

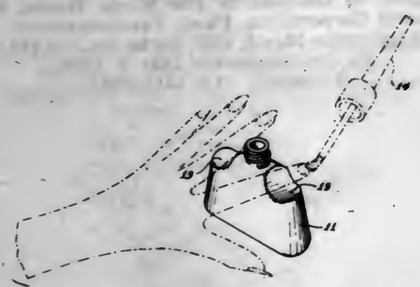
the same swingably thereupon, resilient means holding each tamping body tilted towards the bite of the drums, raking projections upon each tamping body to move surplus tobacco away from the scraper drum, driving means to effect the up and down swinging movement of said supports in alternating order, and driving means to effect a swinging movement of each tamping body away from the scraper drum immediately after it reaches its lowermost position.

2,656,841
PROCESS FOR MAKING TOBACCO SHEET MATERIAL
Martin H. Gurley, Jr., Needham, Mass., assignor, by mesne assignments, to American Machine and Foundry Company, New York, N. Y., a corporation of New Jersey
Application September 10, 1946, Serial No. 695,940
4 Claims. (Cl. 131—140)



1. The method of expanding tobacco reconstituted sheet material comprising placing such material to be treated upon a flame resistant support, and moving said support with said reconstituted tobacco sheet material positioned thereon relative to a source of intense heat to raise the temperature of said material to between 250°–450° F. to vaporize moisture contained within said sheet and puff limited portions thereof.

2,656,842
BOTTLE
Theresa L. Ammarell, Brooklyn, N. Y., assignor to Richard Hudnut, New York, N. Y., a corporation of New York
Application June 9, 1949, Serial No. 97,983
1 Claim. (Cl. 132—73)



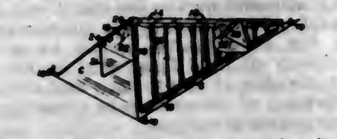
A bottle for containing nail lacquers and for supporting the fingers for the application thereof comprising a base, a pair of side walls, a pair of end walls, each of said side walls and said end walls tapering upwardly, said side walls being arched upwardly and joined together at their tops, an upwardly extending neck centrally positioned on the arched portions of the side walls, a device removably positioned on said neck, a brush depending from said device for applying the lacquer, a pair of concave finger rests on either side of said arched portions of the side walls defined by said end walls tapering uniformly upwardly to a position beneath the arched portion of the side walls and thence extending inwardly and upwardly, the upper edges of said concave finger rests terminating in said arched top portions of the side walls, the lower edges of said finger rests terminating at said end walls, whereby the fingers may be supported and at the same time, the bottle may be prevented from tipping over.

2,656,843
TEETH CLEANING UNIT
Marcel Boulicault, St. Louis, Mo.
Application February 9, 1949, Serial No. 75,335
3 Claims. (Cl. 132—84)



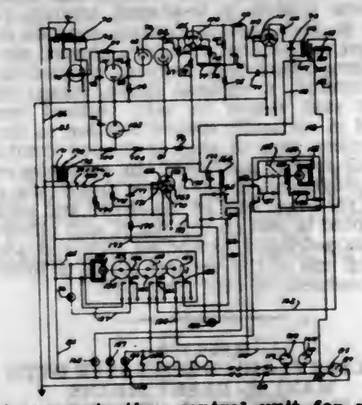
1. A dentifrice holder designed to be associated with the tubular handle section of a teeth cleaning unit, said holder comprising a head section having a closure portion designed to provide a closure for the open end of said tubular handle section and a knob portion rotatably mounted on said closure portion, said closure portion having an external shoulder designed to abut the open end of said tubular handle section to form a substantially flush joint between the handle section and head section, a tubular casing extending from said closure portion adapted to be housed within said tubular handle section, a plunger within said casing having a body portion and a head portion, said head portion presenting a relatively flat and unbroken dentifrice contacting surface and a smooth periphery, said tubular casing presenting a smooth walled dentrifice container section designed to snugly receive the head portion of said plunger and a lower section designed to contain the body portion of said plunger, a primary closure for the open end of said dentifrice containing section through which the same may be filled with dentifrice, said primary closure having a dentifrice discharge opening, a secondary closure for said discharge opening, a stud element terminating within the body portion of said plunger for reciprocating the plunger in said casing whereby the flat unbroken face of the head portion thereof may be operated to forcibly eject the dentifrice through the discharge opening in said primary closure, means associated with the body portion of said plunger and the lower section of said tubular casing for retaining said reciprocable plunger against rotation, and means connecting said knob portion to said stud element.

2,656,844
COMBINED SLEEPING BAG AND TENT
Ben L. Kreuzer, Denver, Colo.
Application February 1, 1951, Serial No. 208,899
1 Claim. (Cl. 135—1)



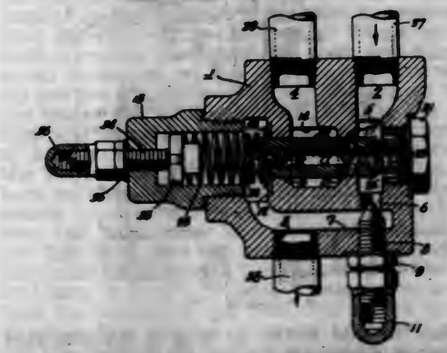
A self supporting tent of the type having a floor and side walls of isosceles triangle shape interconnected along fold lines so as to form a triangular pyramidal tent, the floor and side walls comprising two layers of air tight material attached to each other along their edges and along spaced lines parallel to their bases forming air compartments, the several compartments of each section being in communication with each other to permit equalization of air pressure, whereby when the compartments are inflated the triangular sections will have a plurality of parallel ridges parallel with their bases to provide rigidity, whereby when the inflated sides are attached to each other, a triangular pyramid shaped tent will be formed that will be self supporting due to the rigidity of the sides.

2,656,845
APPARATUS FOR TESTING AND CONTROLLING THE CONCENTRATION OF SOLUTIONS
Wesley N. Lindsay, San Jose, Calif., assignor to Food Machinery and Chemical Corporation, a corporation of Delaware
Application March 6, 1948, Serial No. 13,468
11 Claims. (Cl. 137—93)



1. A concentration control unit for solutions including replenishing means adapted to increase the concentration of a controlled solution, a photo-electric testing mechanism having an activating lamp, sampling mechanism arranged to conduct specimens of said solution through said testing mechanism, said testing mechanism being arranged to develop varying voltages according to the concentration of said specimens upon illumination of said lamp, a relay adapted to activate said replenishing means in response to predetermined ones of said voltages, latching means to retain said relay in said activating position upon disappearance of said voltages, means adapted to disable said latching means, and cyclically operable means to periodically activate said sampling mechanism, said lamp and said latch-disabling means.

2,656,846
FLOW CONTROL VALVE
Arthur C. Anderson, Wildwood Crest, N. J., assignor to A. C. Anderson, Inc., Wildwood, N. J., a corporation of New Jersey
Application January 15, 1953, Serial No. 331,348
1 Claim. (Cl. 137—108)

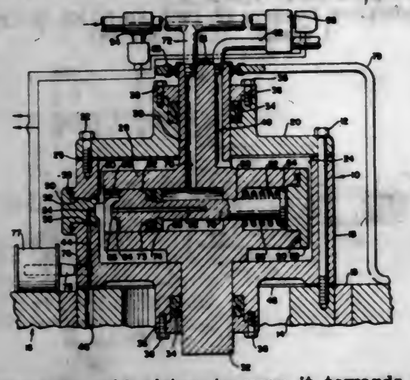


In a flow control valve, a casing having first and second chambers, a passage including a restricted orifice connecting said chambers, and a third chamber intermediate the chambers first named, said casing having also three ports connected respectively to said chambers, a valve member having its ends exposed respectively in said first and second chambers and intersecting the third chamber and mounted for longitudinal sliding movement in the casing, said valve member having a longitudinal bore extending from end to end thereof and an aperture in the wall thereof located relatively close to one of said ends, a spring exerting pressure on the valve member tending to move the member longitudinally in the casing, means limiting movement of the valve member by pressure of the spring, means for selectively closing the respective ends of the longitudinal bore of the valve member so that a differential in the pressures exerted on the valve member by the fluid in two of said chambers may act in opposition to the spring to control the position of axial adjustment of the member in the casing, said valve member being reversible end for end within the casing, the said chambers being relatively arranged so that in one of the said positions of reversal an endwise movement of the valve member against the spring pressure will progressively increase the effective area of the aperture exposed in the intermediate chamber, and in the other of said positions of reversal a corresponding movement of the member will progressively reduce the effective area of the aperture exposed in said intermediate chamber, and means for closing the said port which is connected to that one of the first and second chambers toward which the valve member is urged by the spring.

2,656,847
ROTARY COUPLING AND VALVE
Don F. Collins, Akron, Ohio, assignor to Adamson United Company, Akron, Ohio, a corporation of Ohio
Application May 29, 1951, Serial No. 228,911
13 Claims. (Cl. 137—112)

12. A rotary fluid coupling and valve comprising a valve block, a rotary housing encompassing said valve block and forming a chamber around at least a portion of said valve block, said housing having a plurality of spaced discharge passages connecting to said chamber, bore means connect-

ing to said chamber to transmit fluid under pressure thereto for flow to said discharge passages, a valve piston slidably carried by said valve block, and supply means for transmitting fluid under



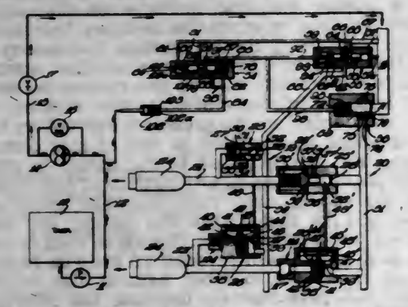
pressure to said piston to urge it towards said housing, said piston having a bore therein for connecting one of said discharge passages to said fluid pressure supply means and sealing it from said chamber.

2,656,848

DUPLEX FLOW CONTROL APPARATUS

T Cyril Noon, Bainbridge Township, Geauga County, and Frank C. Bayer, Cleveland, Ohio, assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application February 19, 1951, Serial No. 211,692
18 Claims. (Cl. 137—118)



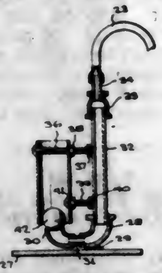
1. A fluid flow control system for accurately proportioning flow from a supply source under pressure through a plurality of passages over a wide range of fluid flow, comprising a first division of the system including a first flow fluid supply manifold having outlets for respective connection to said passages, and means downstream of said first flow manifold outlets for proportionally metering flow through the passages over a first portion of the flow range and including respective fixed area orifices upstream of respective pressure-actuated variable area orifices controlling flow from said first flow manifold outlets to said passages, a second division of the system including a second flow fluid supply manifold having outlets for respective connection to said passages, and means downstream of said second flow manifold outlets for proportionally metering flow through the passages over a second portion of the flow range and including respective fixed area orifices upstream of respective pressure-actuated variable area orifices controlling flow from said second flow manifold outlets to said passages, pressure responsive means for controlling flow from said fluid supply source to said first flow manifold, pressure responsive means for controlling flow from said fluid supply source to said second flow manifold, and valve means for selectively supplying high and low pressures to said pressure responsive means for selectively opening one of said valve means while substantially restricting the other valve means to selectively shunt delivery of fluid from said source first to said first division of the system and then to the second division of the system in accordance with the supply source pressure.

2,656,849

METERING APPLIANCE WITH AUTOMATIC SOLUTION SHUTOFF DEVICE

Arthur H. Deatrick and Alexander J. Kish, Miami, Fla.

Application November 30, 1951, Serial No. 259,238
2 Claims. (Cl. 137—399)



1. In a liquid distribution system of the type comprising a container, a suction line and a supply conduit connected to said suction line, an automatic suction cutoff device in said container comprising a base, a U-shaped conduit rigidly secured to said base, a vertical conduit rigidly connected to one arm of said U-shaped conduit, means connecting said vertical conduit to the supply conduit, a vertical sleeve, means rigidly securing said sleeve to said vertical conduit over and in vertically spaced relation to the rim of the other arm of said U-shaped conduit, a float ball freely positioned in said sleeve for vertical movement in the sleeve and in the space between the lower end of the sleeve and said rim and adapted to seat on the rim of said other arm, and a diametrically extending stop rod secured in the top end of the vertical sleeve to limit upward movement of said float ball.

2,656,850

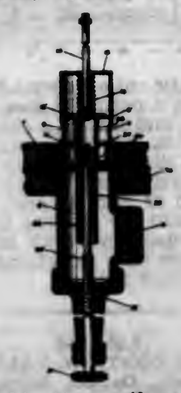
EXCESS FLOW CHECK VALVE WITH MANUAL RESET MEANS

Owen L. Garretson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application April 15, 1946, Serial No. 662,371
3 Claims. (Cl. 137—460)

1. An excess flow valve comprising, in combination; a valve body having a fluid conduit therethrough; a valve seat disposed in said conduit a moveable valve head disposed in said conduit adapted to be moved to seat on said valve seat and thereby close said conduit; the edges of said valve head being closely spaced to said conduit and defining a restricted passage therewith, means closing said conduit at the end thereof remote from said valve seat, thereby defining a chamber together with the conduit and valve head when the valve is in open position, a fluid inlet positioned between said chamber and said

valve seat, the seating face of the valve head being so positioned relative to the flow path that, upon excess flow, the resulting reduction in pressure will act upon said seating face to produce a pressure differential tending to cause closure of the valve, a valve stem attached to said valve head and slideably extending through said body; a first spring disposed within said chamber adapted to exert pressure on said valve head to move said valve head to seat on said valve seat; and means for moving said valve head from said valve seat thereby opening said conduit com-



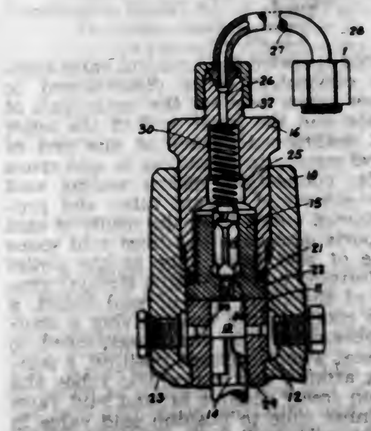
prising, in combination, a threaded rod extending through said body adapted to be advanced and retracted by turning; a housing slideable with respect to said rod and engageable with said valve head; a second spring within said housing having one end thereof secured to said rod and the other end thereof secured to said housing so as to urge said housing into engagement with the valve head and open said valve, said valve head being moved from open position to closed position when the combined force due to said first spring and to flow past said open valve exceeds the opening force of the second spring.

2,656,851

FUEL PUMP DELIVERY VALVE

William M. Nichols, Schenectady, N. Y., assignor to American Locomotive Company, New York, N. Y., a corporation of New York

Application September 7, 1950, Serial No. 183,556
4 Claims. (Cl. 137—512.1)



1. A delivery valve apparatus for controlling the intermittent flow of a fluid column from a pressure cylinder to a point of use comprising a housing having a first bore, a valve seat in the housing spaced at a predetermined distance from the delivery end of said bore, a second bore axially aligned with the first bore, and a valve reciprocably guided in the bores, said valve having a main body reciprocable in the first bore, a passage in the body to permit the movement of fluid therethrough, a cylindrical flange on the body, a seating portion on the body, and a cylindrical extension on the body beyond the seating portion and reciprocable in the second bore, the flange having a fluid sealing fit in the first bore and being spaced from the seating portion at a lesser distance than the distance between the valve seat and the delivery end of the first bore so that when the valve is moved toward seated position the flange enters the bore before the valve seats thereby to force fluid in the first bore past the seat, and the cylindrical extension being spaced from the wall of the second bore to form a restricted passageway to retard the passage of the fluid thus forced by said flange so that the fluid thus entrapped will cushion the valve in its seating movement and damp surges arising in the fluid column.

2,656,852

PRESSURE COOKER VALVE

Henry Arnold Westby, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware

Application June 5, 1947, Serial No. 752,735
9 Claims. (Cl. 137—523)



1. In a pressure cooker, the combination of a removable pressure relief valve movable between open and closed positions, and a manually operable control member for said valve, interengaging means on said valve and member moving said valve from closed to open position when said member is moved from a first to a second position, and locking means on said member positioned in the path of said valve in at least one position of said member for preventing accidental removal of said valve.

2,656,853

BRANCH HOSE CONNECTOR

Charles C. Scheele, Syracuse, N. Y.

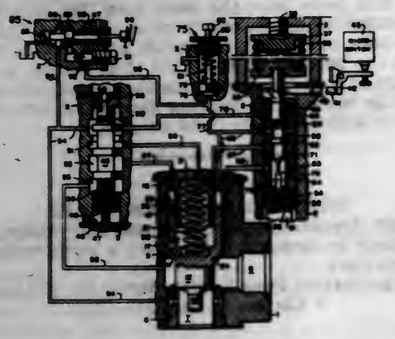
Application June 1, 1949, Serial No. 96,539
2 Claims. (Cl. 137—551)



1. In a detachable mixer hose, a molded one-piece branched tube of flexible resilient plastic, having hot and cold fluid inlet branch portions, and a trunk outlet portion, said portions being joined in a mixing chamber, the branch portions and trunk portion extending in opposite directions and in substantial parallelism with each

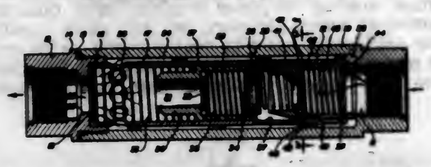
other, and said mixing chamber having opposed relatively flat walls, one having an annular recess projecting into the mixing chamber for the reception of a water temperature indicator, said recess having a circular walled metallic shell forming a part of the wall, the wall of said shell being bonded to plastic forming the annular recess.

2,656,854
PILOT OPERATED FREE RETURN RESISTANCE VALVE
James K. Douglas and William G. Douglas, Shorewood, Wis., assignors to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin
Application December 30, 1949, Serial No. 135,962
20 Claims. (Cl. 137—620)



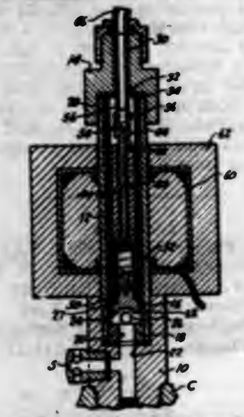
1. A resistance valve comprising a casing having a bore and an inlet communicating with said bore, an annular valve seat arranged in said bore at one side of said inlet and constituting an outlet, a hollow stationary piston smaller than said bore extending into said bore from the end thereof opposite said outlet, means for supporting said stationary piston and for closing the adjacent end of said bore, a main valve for engaging said seat to block communication between said inlet and said outlet, a hollow movable piston fixed to said valve and fitted in said bore and upon said stationary piston with its annular end spaced from said supporting means and forming therewith and with said stationary piston and the wall of said bore a substantially fluid tight pressure chamber, the interiors of said hollow pistons constituting a spring chamber, a spring arranged within said spring chamber and engaging the end walls thereof to normally hold said main valve against said valve seat, an annular lifting area arranged upon said movable piston around said main valve and exposed to any pressure in said inlet, said annular end of said movable piston constituting a hold-on area which is slightly larger than said lifting area and upon which pressure in said pressure chamber may act and urge said valve against said seat, and means for providing for flow of liquid from said inlet into said pressure chamber and from that chamber to exhaust including a pressure responsive pilot valve connected to said inlet and to said chamber and to exhaust and providing a restriction for limiting the rate of flow from said inlet into said pressure chamber, said pilot valve being normally closed to prevent escape of liquid from said chamber to exhaust and being adapted in response to the pressure in said inlet reaching a predetermined maximum to open and permit liquid to flow from said chamber to exhaust faster than liquid can flow through said restriction.

2,656,855
AUTOMATIC CUTOFF DEVICE
Harry T. Booth, Dayton, Ohio, assignor to United Aircraft Products, Inc., Dayton, Ohio, a corporation of Ohio
Application April 11, 1950, Serial No. 155,231
7 Claims. (Cl. 137—620)



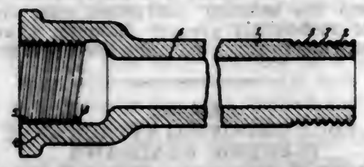
1. An automatic cut off device for fluid flowing lines, comprising a normally open valve displaceable by flowing fluid toward a closed position interrupting flow in the line, means for dividing the flow in said line into primary and secondary streams, the latter acting on said valve, control orifices for each of said streams, and fluid flow displaceable means for varying the area of said orifices in correspondence with one another and in correspondence with variations in the rate of flow of the hydraulic fluid.

2,656,856
GAS CONTROL VALVE
Paul E. Brunberg, Detroit, Mich., assignor, by mesne assignments, of one-half to Nita Carol Brunberg, Detroit, Mich.
Application January 15, 1949, Serial No. 71,114
3 Claims. (Cl. 137—702)



2. A solenoid operated fluid control valve comprising two concentric tubes dimensioned to provide a flow space between the outer wall of the inner tube and the inner wall of the outer tube, means sealing said space at one end of said tubes and serving to admit gas to said space from an inlet connection, means sealing said space at the other end of said tubes and providing a restricted outlet from the inside of said inner tube, ports admitting gas from said space to the inside of said inner tube at the outlet end, means forming a sharp-edged circular projecting seat at the inner end of said outlet, a control valve comprising a head having a conical recess concentric with and dimensioned to receive said seat when in closed position, a solenoid winding around said concentric tubes and a piece of iron freely slidable around said valve within said inner tube to position said valve in line with said seat and engageable with said valve head to serve as a solenoid actuator.

2,656,857
COATED PIPE
Jean Albert Cavallier, Nancy, France, assignor to Société: Pompes Noel, Liverdun (Meurthe-et-Moselle), France, a French company
Application July 26, 1947, Serial No. 764,007
In France August 23, 1946
3 Claims. (Cl. 138—63)



1. A pipe with at least one screw-threaded end portion which is covered with a lubricating, sealing and protecting plastic coating which contains at least a solvent having a high boiling point, the whole internal and external unthreaded surface of said pipe being covered with a thin protecting plastic covering and having the same constituents as the coating but, the thickness, solvent content and plasticity of said covering being smaller than that of said coating.

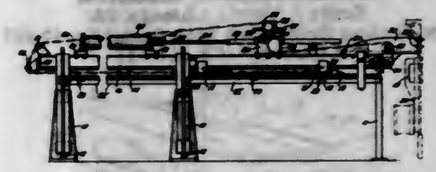
3. A method for coating a pipe having at least one screw-threaded end portion which method consists in immersing the pipe in a bath of the following composition by weight: about 60% coal tar pitch and about 40% anthracene oil, maintaining said bath at a temperature between 110° and 130° C., keeping the pipe immersed in said bath until the temperature of the pipe is equal to that of the bath, removing the pipe from said bath, said pipe being completely covered with the coating composition, gradually cooling the pipe and its coating after removal from said bath, thus forming on the screw-threaded end portion of the pipe a lubricating, sealing and protective plastic coating which has the following composition by weight: about 80% coal tar pitch and about 20% anthracene oil, whereas the entire internal and external unthreaded surface of the pipe is covered with a plastic protective covering which is thinner than the coating at the screw-threaded portion and has the following composition by weight: about 90% coal tar pitch and about 10% anthracene oil.

2,656,858
SHUTTLE HOLDING MEANS
Kurt Schwabe, Le Locle, Switzerland
Application September 27, 1950, Serial No. 187,067
In Switzerland September 29, 1949
14 Claims. (Cl. 139—241)



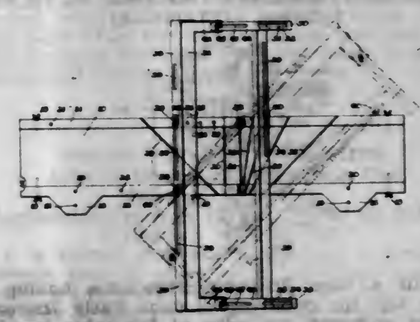
1. A device for holding a shuttle during the changing of the weft bobbin in a loom having a mechanism for automatically changing the weft bobbin and in which the changing of the weft bobbin takes place outside of the shuttle box, comprising, in combination, a resiliently mounted stop engaging one end of said shuttle, the said resiliently mounted stop comprising a spring mounted in a housing, a pin engaging said spring at one end thereof and a picker mounted between said pin and said end of said shuttle; a stop means mounted on said shuttle; and a pawl engaging said stop means on said shuttle, whereby the said shuttle is clamped between said resiliently mounted stop and said pawl so as to fix its position during the changing of the weft bobbin.

2,656,859
STOCK FEED MECHANISM
William B. Retz, Plainville, Conn., assignor to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut
Application October 12, 1950, Serial No. 189,727
21 Claims. (Cl. 140—125.2)



1. In a stock-feeding mechanism of the character indicated, an elongated guide member, stock-pusher means including an elongated longitudinally extending pusher member, two supporting carriages independently slidable in longitudinally spaced relation on said guide member, pusher member guide means on both said carriages, said pusher member being slidably guided and supported by both said carriages for the substantial length thereof, whereby the substantial length of said pusher member may be extended beyond both ends of said guide member, drive means for said pusher member including a taut flexible connection between a rear part of said guide member and a forward part of said pusher member and a taut flexible connection between a forward part of said guide member and a rear part of said pusher member, first automatically releasable latch means between one of said carriages and one of said members, and second automatically releasable latch means between the other of said carriages and one of said members.

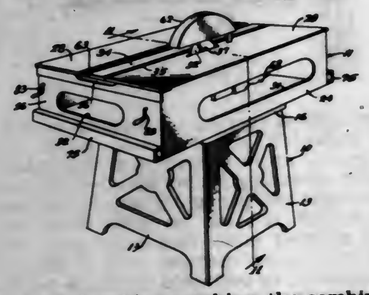
2,656,860
MITER BOX FOR PORTABLE POWER SAWS
Chester L. Thayer, Memphis, Tenn.
Application February 15, 1952, Serial No. 271,699
2 Claims. (Cl. 143—6)



2. In a miter box for portable power saws including an open top open ended box structure having a bottom and opposed side walls, a guide frame for the portable power saw disposed upon the tops of the side walls having two opposed parallel track members to receive the power saw,

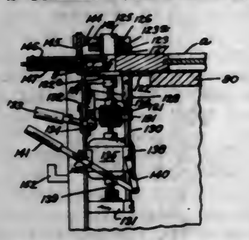
means for adjusting the distance between said track members and means for securing said guide frame to the side walls at various angles to the long axis of the box structure, said means for securing said guide frame to the side walls including longitudinal slots in one of said track members, lag bolts passing through said slots and threaded into the tops of the side walls, a longitudinal slot in the other track member, and a clamp engaging said last named slot and the lower edge of the adjacent side wall.

2,656,861
ROTATABLE TOP COMBINATION WOODWORKING MACHINE
Emile J. Verret, Chicago, Ill.
Application October 30, 1948, Serial No. 57,437
6 Claims. (Cl. 144—1)



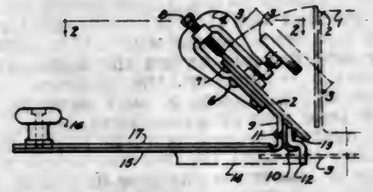
2. In a woodworking machine, the combination of, a supporting standard, a box-like frame carried by the supporting standard and including a table surface having a hinged leaf extending throughout its length and an adjacent parallel slot, a planer including a guide surface, shaft and cutter mounted in the frame below and in alignment with the hinged leaf and accessible for planing upon opening the leaf, and a circular saw of larger diameter than the planer cutter carried by the planer shaft and extending through the slot and accessible for sawing from the top of the table surface.

2,656,862
DEVICE FOR BORING THE LOCKHOLES IN DOORS
Carl Gellert and Fred Gellert, San Francisco, Calif.
Application December 9, 1949, Serial No. 131,978
2 Claims. (Cl. 144—93)



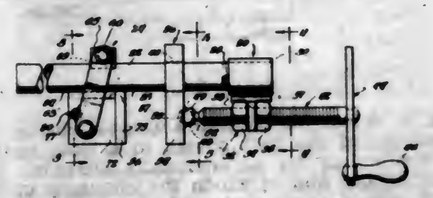
1. In a door finishing apparatus having a table top for receiving a door flatly thereon, means adjacent one edge of the table top for boring a lock hole through a door on the table top, including a clamp plate inset into an adjacent edge of the table top substantially coplanar with the table top, another clamping plate spaced overlying and parallel to the first mentioned plate, said clamp plates each having an opening therein, a boring bit reciprocable through the openings in the clamp plates and through the plane of the table top, the opening of the clamp plate most remote from the bit having an annular sharpened edge extending from the face of said remote clamp plate for biting into the door face which is opposite the boring bit, the opening of said remote clamp plate and the annular sharpened edge thereof being of sufficiently greater diameter than the bit to provide sliding clearance therebetween.

2,656,863
PANEL EDGE GROOVING ATTACHMENT FOR ELECTRIC HANDSAWS
George H. Bugenhagen, Minot, N. Dak.
Application January 30, 1950, Serial No. 141,282
3 Claims. (Cl. 144—136)



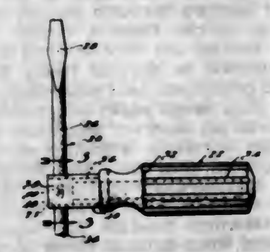
1. In an attachment for a conventional electric hand saw comprising the usual circular saw blade, motor, housing, grips, and base plate upon which the assembly slides during a cutting operation the combination which includes an attachable plate member adapted to releasably engage the base plate of the conventional saw, a manual clamping member carried by the plate member adapted to releasably secure the attachable plate member to the base plate of the saw, a shoe member angularly disposed to the plate member, and secured thereto, adapted to place the saw blade in a plane parallel to and below the plane of the flat surface of the shoe, a manual control grip carried by the shoe, and lug members carried by the shoe and the attachable plate member adapted for sliding engagement with the edge of a building board as the shoe is slid over the side surface of the building board whereby to control the depth of the groove formed in the edge face of the building board by the saw.

2,656,864
STRAIGHT BEAM CLAMP WITH ADJUSTABLE SELF-LOCKING JAW
Fred P. Hopfeld, Elmwood Park, Ill., assignor to Grand Specialties Company, Chicago, Ill., a corporation of Illinois
Application April 21, 1949, Serial No. 88,269
2 Claims. (Cl. 144—303)



1. A clamp comprising a tubular-shaped body member having a collar member screwed onto one end thereof, two clamping elements mounted on said body member and movable longitudinally thereof toward and away from each other, one of said clamping elements comprising an elongated jaw member having an opening formed therein, said jaw member being mounted on said body member with a portion thereof projecting from one side of said body member and with said body member disposed in said opening, the other of said clamping elements comprising another elongated member having one end engaged with said one side of said body member, an elongated web member having one end welded to the central portion of said other elongated member and projecting transversely thereto and longitudinally along said body member in a direction away from said jaw member, said web member having a recess in the edge thereof that is next to said body member and extending from the said one end thereof rearwardly to provide an abutment portion formed on the end thereof opposite said one end and engaged with said one side of said body member, two elongated arms pivotally connected at one end to said web member between said abutment portion and said other elongated member, said two arms being disposed on opposite sides of said body member, a gripping cross member pivotally mounted between the other ends of said arms, and a coil spring mounted in said web member and having end portions projecting therefrom into engagement with side portions of said arms, said spring urging said arms to pivot on said web member toward said jaw member and thereby urging said gripping cross member into engagement with the side of said body member opposite said one side to thereby yieldingly grip said body member between said cross bar and said other elongated member and said abutment member, and means including a feed screw mounted in said collar member and connected to said jaw member for moving said jaw member toward and away from said other elongated member.

2,656,865
RATCHET TOOL WITH ANGULARLY ADJUSTABLE HANDLE
Wilfred Bright, Toledo, Ohio
Substituted for application Serial No. 703,677, October 16, 1946. This application March 24, 1949, Serial No. 83,115
7 Claims. (Cl. 145—75)



3. A tool comprising a holder having a socket provided with a side opening; a tool element having a shank; a connecting member surrounding and rotatably mounted on said shank; pawl and ratchet means fastening the shank and connecting member for mutual rotation in one direction, said connecting member and said socket so constructed and arranged that the connecting member is adapted to fit snugly and non-rotatably in the socket with said shank in either of two right-angularly related positions, said connecting member being insertible bodily in or removable bodily from said socket with the shank disposed either in line with and extending axially from said holder or in right-angular relation with respect to said holder and in said side opening, and means interengaging between the connecting member and the walls of said socket in both positions of said connecting member to fasten the holder and tool detachably together.

2,656,866
NUTCRACKER
John C. Rumsey, Topeka, Kans., assignor of one-half to Ferne R. Vanderhoof, Lawrence, Kans.
Application February 20, 1950, Serial No. 145,281
1 Claim. (Cl. 146—15)

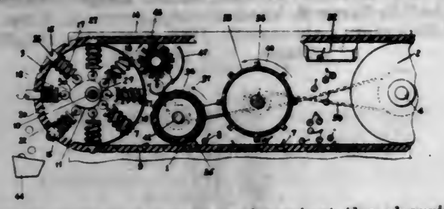


A nut cracker comprising an elongated, cylindrical body having a base, a closed, lowermost end wall, and a single nut-receiving opening intermediate the ends thereof spaced above said end wall; a plug in the body at the uppermost end thereof and provided with a bore in axial alignment with the body; an elongated, rotatable shaft slidably mounted for vertical reciprocation in said bore; a hand-engaging, dome-shaped cap on the uppermost end of said shaft; a head on the lowermost end of the shaft within said body, said head having a substantially dome-shaped, frusto-conical, lowermost face provided with a plurality of concentric, annular grooves at the apex thereof; a coil spring in the body alongside the shaft interconnecting the head and the plug for yieldably biasing the head toward the plug; and a laterally extending, horizontal pin on the shaft, there being an L-shaped slot in the plug and body for receiving the pin to lock the shaft, the cap and the head at the lowermost end of their reciprocable paths of travel with the head engaging said lowermost end wall of the body and with said spring tensioned, said nut-receiving opening being above the head when the latter engages said end wall and beneath the head when the latter is at the uppermost end of its path of travel.

2,656,867
FRUIT STEMMING MACHINE
John G. Aguilar and William A. Cox, San Francisco, Calif.
Application February 13, 1951, Serial No. 210,758
7 Claims. (Cl. 146—55)

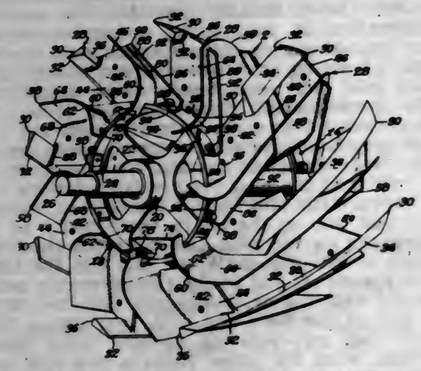
1. A cherry stemmer comprising a conveyor formed with a plurality of openings each of which is adapted to receive therein a cherry from one side of said conveyor for movement along a path of travel, a support in each opening in a position for supporting a cherry within each opening with its stem projecting from said one side, said support being movable to one side by a cherry supported thereon upon application of force against said cherry axially of said opening

and toward the side of said conveyor opposite said one side for movement of said cherry past said support and out of said opening at said side of the conveyor opposite said one side, stem gripping means at a point along said path for gripping and holding the stems of cherries that are in said supports and on said openings, cherry pushing means at said one side of said conveyor adjacent said stem gripping means movable



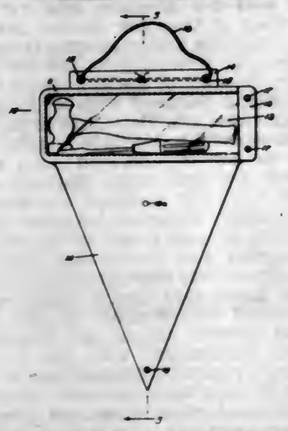
axially of said openings and against the cherries on said supports for applying said force to said cherries for so moving them past said supports, and means for so moving said cherry pushing means said supports being movable with said conveyor so that cherries supported thereon will be free from frictional resistance tending to rotate them and to displace their stems upon their arrival at said point where said stems are gripped by said gripping means.

2,656,868
FORAGE CUTTER
Otto E. Hintz, Riverside, and Ralph Schinke, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application July 12, 1951, Serial No. 236,348
9 Claims. (Cl. 146—107)



1. A forage cutter comprising rotatable axially perforated support means including a shaft with a pair of axially spaced drums keyed thereon, a plurality of knives spaced circumferentially about the drums and connected thereto, peripheral blower means intercalated with said knives circumferentially of the cutter and disposed radially inwardly of the knives, each of said blower means including a slinging surface having a positive inclination radially outwardly in the direction of rotation of the cutter, scoop means extending forwardly from the inner extremity of said surface between and at the remote extremities of said drums radially inwardly of the outer peripheries of said drums and in axial alignment with the perforations in the drums, and guide means on said knives formed and arranged to deposit the material cut thereby into said scoop means whereby during rotation of the cutter outward blowing of the material is initiated from substantially the radially innermost extent of said blower means to effect maximum propulsion of the material as it is discharged from said cutter.

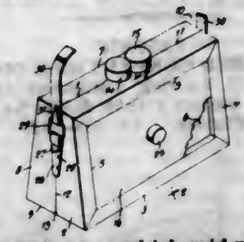
2,656,869
TOOL KIT
George A. Timmons, Hudson, Ohio, assignor to The House of Timmons Inc., Twinsburg, Ohio, a corporation of Ohio
Application August 30, 1950, Serial No. 182,252
1 Claim. (Cl. 150—12)



A tool kit comprising in combination, a rear panel of reinforced material, a smaller front panel of transparent material, the edges of said rear panel adapted to overlap the front panel with a reverse double fold along all but one edge, said front panel nesting within said reverse double fold, means for securing the edges of said front panel within said reverse double-fold of the rear panel, said unsecured edge of the rear panel acting as a flap cover for the open edge of the carrier so formed, fastening means on said transparent front panel, a second flap member secured to said rear panel adjacent one of the secured edges, said flap member having a plurality of spaced openings therethrough, a tie member threaded and secured through said openings for supporting the carrier from a vehicle, a wrap-around cover having one edge secured to the rear panel and adapted to depend freely therefrom in unwrapped condition, said wrap-around cover comprising a fluorescent panel adapted to be outwardly visible to an observer when the carrier is supported from a vehicle with the cover in unwrapped condition, and, fastening means on the free end and intermediate portion of said wrap-around cover, said fastening means adapted to be aligned in fastening relation for securing the free end of said wrap-around cover to an intermediate portion thereof when wrapped around the carrier.
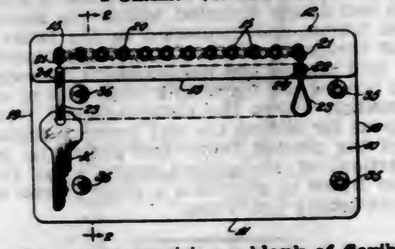
2,656,870
LADY'S HANDBAG
Irving Wishnia, New York, N. Y.
Application July 14, 1950, Serial No. 173,742
2 Claims. (Cl. 150—28)

1. A lady's handbag with detachable panels comprising a pair of side members hinged together at the lower ends thereof, latch elements at the top of said members cooperating to close said handbag, a rigid frame having a relatively large central opening for at least one of said side members, a relatively stiff plate on the inner face of said side member, an outwardly extending bolt anchored in said plate, a separate panel of a size and shape corresponding with said opening having a hole in said panel adapted to receive said bolt, the outer face of said panel being flush with the outer face of said frame, a



relatively stiff base on which said panel is mounted, a lining on the inner face of said side member and covering said bolt, a grommet in said hole and fixed to said base and panel, said bolt passing through said grommet, and a nut for said bolt adapted to fit over the outer face of said panel.

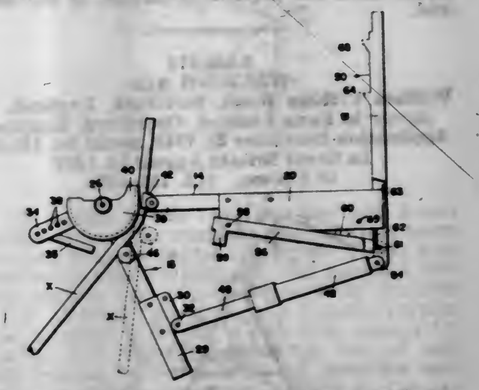
2,656,871
KEY CASE
Carl E. Anderson, Manasquan, N. J., assignor to Eastern Tool & Mfg. Co., Belleville, N. J., a corporation of New Jersey
Application January 8, 1952, Serial No. 265,280
1 Claim. (Cl. 150—40)



A key case comprising a blank of flexible material of generally elongated rectangular outline having parallel longitudinal ends, one of said longitudinal ends being folded upon the blank with the free edge of the folded portion fixed to the blank to define therewith a hollow pocket coextensive with the length of the blank, said folded portion having a plurality of spaced aligned apertures, a chain comprising a series of movably connected substantially circular links loosely positioned in said pocket with certain of said links disposed in alignment with corresponding apertures in the folded portion, open loop members closed upon the exposed links, and having swivel studs and key latches swivelly connected to said studs for rotation on their axes and movement on the links to which they are connected, the chain being of length substantially equal to the distance between the endmost apertures, the endmost key latches having their respective loop members connected to the respective end links of the chain to retain the chain in the pocket.

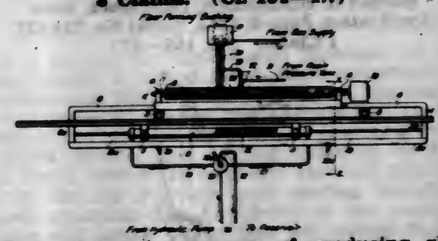
2,656,872
IRON BENDING MACHINE
William H. Mann and Elmer V. Schmidt, Winona, Minn., assignors to Hossfeld Manufacturing Company, Winona, Minn., a corporation of Minnesota
Application March 23, 1950, Serial No. 151,494
10 Claims. (Cl. 153—46)

1. In a machine of the class described, a stationary frame, a swingable bending frame, a pivot pin connecting the swingable bending frame to the stationary frame, a die turnably mounted on the pivot pin, means on the stationary frame for holding an elongated member on the die to be bent thereon, means on the die for clamping the elongated member onto said holding means to prevent endwise movement thereof during bending, a bar in one of its adjustments projecting transversely of the stationary frame and



rearwardly, a link pivoted at its inner end portion to the stationary frame and pivoted at its outer end to the front end portion of the bar, said link holding the bar for endwise movement therewith and for relative swinging movement in the plane thereof, a cylinder pivoted to the bar at its front end portion, and a fluid-actuated piston in the cylinder for action on the swingable bending frame for imparting steps of movement thereto to bend said member on the die.

2,656,873
PROCESS AND APPARATUS FOR PRODUCING GLASS FIBROUS TUBES
Joseph F. Stephens, Kansas City, Mo., assignor to Minnesota Mining & Manufacturing Company, a corporation of Delaware
Application May 2, 1949, Serial No. 90,843
8 Claims. (Cl. 154—1.7)

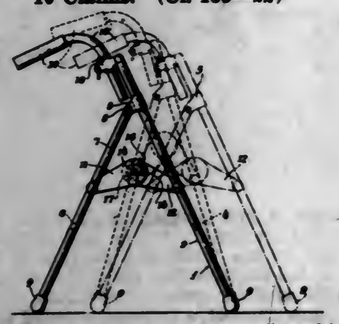


1. An integrated process of producing glass fiber and forming fibrous tubular structures comprising the steps of passing molten glass through the apertures of a bushing to form a plurality of individual fibers, wrapping said fibers circumferentially upon the peripheral surface of an elongated object while rotating said object at a high speed commensurate with the size of the fiber to be drawn, applying a binder to the fibers, laying up the fibers upon the rotating object in layers to form a compact unitary structure and removing the object longitudinally from within the structure to produce an integral fibrous tube.

5. In an apparatus for producing tubular objects of glass fiber, the combination with a receptacle containing a batch of molten glass, of a bushing for feeding the glass in a plurality of

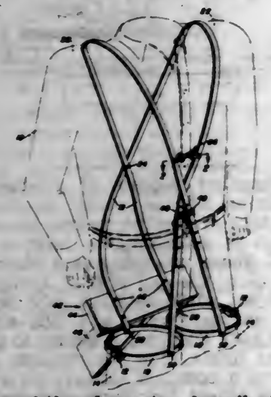
individual continuous fibers, an oscillating carriage positioned adjacent said bushing adapted to travel in a path transverse to the fiber feed, a mandrel rotatably mounted upon said carriage, drive means mounted on said carriage for rotating said mandrel to wind the fibers thereupon as they are spun from the bushing, and means for reciprocating the carriage whereby the fibers are applied circumferentially and in successive layers upon the peripheral surface of the mandrel.

2,656,874
WALKING AID
William Cribbes Robb, Stretford, England, assignor to Enna Limited, Greenford, England
Application December 21, 1949, Serial No. 134,259
In Great Britain August 11, 1949
10 Claims. (Cl. 155—22)



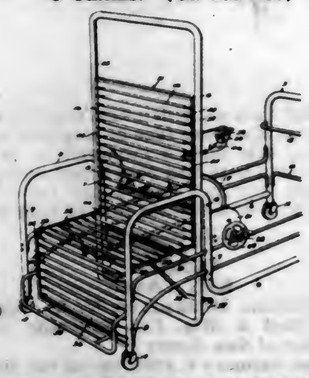
1. A walking aid comprising, in combination, a front member, a rear member, at least one pivot connecting said front and rear members to form a trestle-like structure, at least one rearwardly extending handle, attached to said front member above said pivot, means positively delimiting the relative angular movement of said front and rear members towards and away from each other and means loading said front and rear members angularly toward each other.

2,656,875
STOOL
Harlan H. Hutchinson, Lone Rock, Iowa
Application June 6, 1951, Serial No. 230,121
1 Claim. (Cl. 155—37)



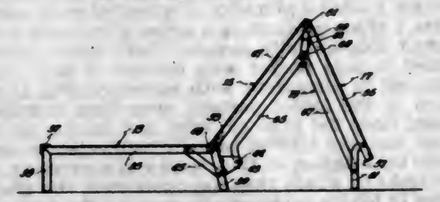
A device of the character described comprising a pair of crossed shoulder straps, a pair of leg encircling straps having their front and rear portions secured to the ends of said shoulder straps, and a stool including an elongated seat mounted on the shoulder straps closely adjacent the leg straps, the rear end portions of said shoulder straps being spaced and extending transversely across the elongated seat and being secured thereon at transversely spaced points.

2,656,876
HOSPITAL BED CONVERTIBLE TO CHAIR
Carlos M. Larrick, Columbus, Ohio
Application August 3, 1950, Serial No. 177,490
5 Claims. (Cl. 155—45)



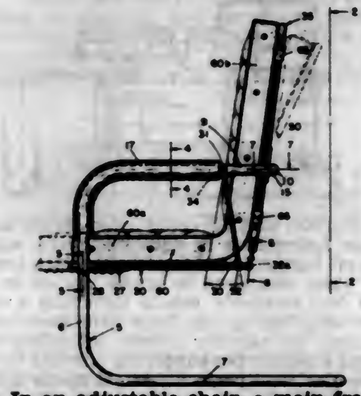
4. In a hospital bed, a stationary bed frame, a pivoted bed frame mounted within the stationary bed frame, and connected to the latter at one end thereof a sectional flat frame mounted within said pivoted bed frame, means for swinging the pivoted bed frame to a horizontal or vertical position within the stationary bed frame, and means for sliding the slat frame longitudinally of the pivoted frame and projecting certain sections of the slatted frame away from said bed frame in providing a chair at one end of the stationary bed frame.

2,656,877
CHAIR BED
Edward E. Weller, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis.
Application November 8, 1950, Serial No. 194,663
4 Claims. (Cl. 155—47)



4. A three-section convertible chair-bed comprising a stationary seat section, a normally upright back section pivoted to the rear of said seat section, an end section pivotally connected at its upper end to the upper end of said back section and normally depending from said back section at the rear thereof, said back section and said end section being rearwardly extensible into coplanar alignment with said seat section to form a bed, a depending foldable leg pivoted to said back section adjacent the upper end of said back section for supporting said back section in bed position, a link pivoted to said leg and to said seat section, the pivotal connection of said link to said seat section being spaced rearwardly of the pivotal connection of said back section to said seat section, said leg and link forming a toggle for locking said back section against rearward movement from its upright position when the pivotal connection between said link and said leg is disposed forwardly of a line extending between the pivotal connection of said leg to said back section and the pivotal connection of said link to said seat section, a second foldable leg pivoted to said end section near its lower end for supporting said end section in bed position, a second link pivoted to said second leg and to one of the members of said toggle, and means for limiting relative movement in one direction between said end section and one of said legs whereby rearward movement of said end section away from its normal position is effective to break said toggle lock and to unfold said legs, thereby permitting said sections to assume said bed position.

2,656,878
CHAIR
William H. Reinholz, Altadena, Calif., assignor to William J. Hubert, Los Angeles, Calif., doing business as Auto-Bye Company
Application July 15, 1946, Serial No. 683,651
2 Claims. (Cl. 155—54)



1. In an adjustable chair, a main frame comprising a single length of resilient metal tubing bent to form a U-shaped floor-engaging base portion, parallel upright front posts, backwardly bent parallel arm rests and a transverse back rest support, means securing together the free ends of said length of tubing, a seat-supporting frame comprising a single length of metal tubing bent into substantially square frame shape, means securing together the free ends of the latter length of tubing, a sheet of flexible material secured to and stretched between opposite portions of the seat-supporting frame, a crossbar secured at its ends to said front posts intermediate the ends of the latter, the front portion of said seat-supporting frame being slidably supported upon said crossbar, link members each pivotally secured at one end to one of said arm rests adjacent the rear end thereof and each pivotally secured at its other end to a side portion of said seat-supporting frame adjacent the rear end of the latter, a back rest supporting frame against said back rest support and comprising a single length of metal tubing bent into substantially rectangular frame shape, means securing together the free ends of said latter length of tubing, the bottom portion of said back rest supporting frame being pivotally secured to the rear portion of said seat-supporting frame, and a sheet of flexible material secured to and stretched between opposite side portions of said back rest supporting frame.

2,656,879
DESK ARM BRACE
Arthur P. Brashear, Jr., Temple, Tex., assignor to American Desk Manufacturing Company, Temple, Tex., a corporation of Texas
Application April 9, 1951, Serial No. 220,060
4 Claims. (Cl. 155—125)



1. In a chair having front and rear legs, a seat member and a back member, said rear legs being extended to secure the back member; a desk arm brace comprising an elongated bar having a forward portion and a rear downwardly inclined portion integral therewith, said forward portion being adapted to secure a desk arm, means for securing said forward portion on one of said front legs in vertically adjusted positions and means for securing said rear portion on the extended portion of one of said rear legs in vertically adjusted positions, said last-named means including vertically spaced slots in said extended portion of said one rear leg, and an angulated bifurcated member at the free end of said rear portion having the furcations positioned in a selected pair of adjacent slots.

2,656,880
DUAL EDGING
Arthur H. Graupner, Oshkosh, Wis.
Application June 25, 1951, Serial No. 233,261
3 Claims. (Cl. 155—181)

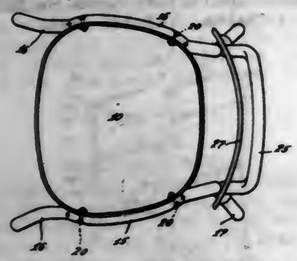


2. A bottom for upholstered furniture of the type having a raised front edge comprising a resilient seat frame, a top padding on the frame, a supplemental frame pivotally secured to the front of the resilient frame and including a front straight stretch, and springs normally holding the front stretch in a raised elevated position above the top padding, said springs including hooks engaging over the front of the resilient frame and means connecting the springs to the front stretch of the supplemental frame.

2,656,881
METAL FURNITURE
Bertis F. Hamilton, Columbus, Ind.
Application July 24, 1950, Serial No. 175,604
2 Claims. (Cl. 155—194)

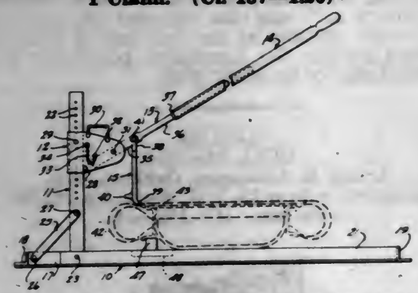
2. In an article of furniture, a sheet-metal seat having an integral, downwardly extending, continuous peripheral flange the lower edge of which is turned inwardly to form a stiffening lip, two tubular leg-forming members of circular cross-section each bent into a general U-shape to provide an intermediate horizontal portion and two legs, the intermediate portion of each member

extending along one side of the seat and being at least partially collapsed and formed to engage said flange over an area having both horizontal and vertical extent, and bolts passing through said horizontal portions and the seat-flange for



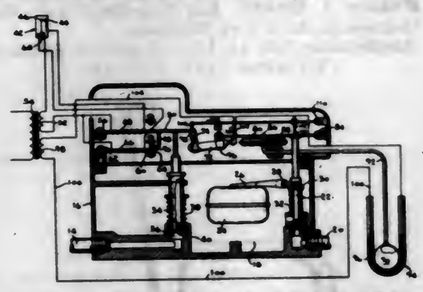
clamping the intermediate portions to the seat-flange at opposite sides of the seat, said bolts having frusto-conical heads, and the metal of the intermediate portions of the tubular members being offset inwardly to provide frusto-conical recesses receiving said bolt-heads.

2,656,882
ADJUSTABLE LEVER ACTUATED TIRE BEAD BREAKING TOOL
Mansel B. Rodgers, Memphis, Tenn.
Application February 16, 1951, Serial No. 211,246
1 Claim. (Cl. 157—1.26)



A manually operated tool for breaking tire casings away from their associated rims, comprising: a base frame including a pair of elongated, straight members rigidly joined in closely spaced, parallel relation; a standard extending upwardly from and arranged normally to said members; a U-shaped bracket including a bight and legs projecting in spaced relation from said bight having the bight and portions of the legs adjacent the bight slidably embracing and connected to said standard for movement toward and away from said base frame with portions of the legs adjacent the free ends being exteriorly of said standard; an operating handle arranged longitudinally of and spaced above said members and having the portion adjacent one end pivotally connected to the exterior portions of the legs for swinging movement toward and away from said members; means carried by the legs and selectively engageable with means formed on said standard for supporting said bracket at selected positions of adjustment longitudinally of the standard; a locking pin removably supported in the exterior portions of the legs and engageable with the upper edge of said handle adjacent said one end of the latter for supporting said handle in an upraised position; a pressure arm depending from and pivotally connected at one end to said handle adjacent to and spaced from the exterior portions of the legs; the other end of said pressure arm being engageable against a tire casing supported on the base frame to break said casing away from its associated rim, said pressure arm swinging in a plane common to that of the operating handle for swingable adjustment of the pressure arm toward and away from the standard, in each position to which said bracket is adjusted longitudinally of the standard; and a leveling block slidably mounted on said members for adjustment toward and away from the standard and adapted to engage under and support, in spaced relation to the members, the flange of a rim supported upon said members.

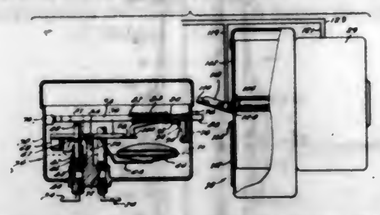
2,656,883
ELECTRIC IGNITION AND CONTROL FOR VAPORIZING OIL BURNERS
John W. Miller and Vaughn H. Hill, Lansing, Mich., assignors to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application September 5, 1950, Serial No. 183,112
15 Claims. (Cl. 158—28)



1. An ignition and oil control for an oil burning system comprising in combination, a vaporizer type oil burner, an electric resistance igniter adapted when energized to ignite the oil in the burner, a fuel reservoir, means including a valve for controlling flow of fuel from said reservoir to said burner, an electric circuit including said igniter and a switch for supplying current to said igniter, an electrically operated heat motor operatively connected to said switch and valve, said heat motor when energized causing said valve to open and said switch to close whereby the igniter is energized and ignites the oil flowing into the burner from said reservoir by said valve, an electrical circuit including said heat motor and a thermostatic switch for controlling energization of said heat motor, and a second heat motor in heat exchange relation with said igniter and operatively connected to said switch to bias said switch toward off position when the igniter is energized.

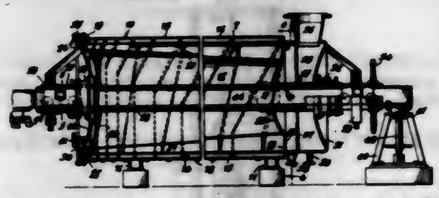
2,656,884
DRAFT RESPONSIVE SAFETY CONTROL FOR OIL BURNERS
Philip S. Russel, Detroit, Mich.
Application December 13, 1950, Serial No. 200,564
7 Claims. (Cl. 158—28)

1. Fuel burning apparatus comprising a burner, a gravity feed fuel supply device for supplying fuel to said burner, a motor-driven fan for supplying air to said burner, said fuel supply device including a fuel reservoir from which fuel is supplied to said burner and a float control valve for controlling the flow of fuel to said reservoir in response to the level of fuel in said reservoir, an actuating member engageable with said valve for closing the same, latch means for positioning said actuating member out of engagement with said valve so as to permit said valve to be opened, a draft responsive plate pivotally mounted on said fan at the inlet thereof, said latch means being arranged in the path of movement of said plate, said plate being responsive to the suction created by said fan at said inlet so as



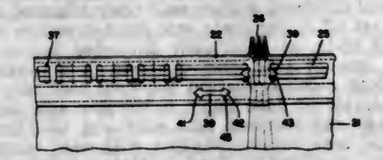
to be maintained out of engagement with said latch means by said suction upon operation of said fan, said plate being arranged to pivot into engagement with said latch means so as to cause the same to release said valve actuating member for closing said valve upon stopping of said fan.

2,656,885
CONCENTRATING APPARATUS
Burton S. Hughes, Buffalo, N. Y., assignor to Zaremba Company, Buffalo, N. Y., a corporation of New York
Application February 16, 1949, Serial No. 76,730
4 Claims. (Cl. 159—11)



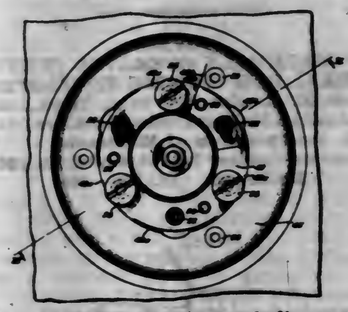
2. An apparatus of the character described, comprising an outer cylinder having end heads one of which is removable, bearings applied axially of said heads, an inner revolvable cylinder disposed axially of and in spaced relation to said outer cylinder for removal therefrom, a hollow shaft extending axially of said inner cylinder and journaled at its end in the outer cylinder bearings, a beam extending through said shaft and adapted to be supported beyond the ends of the same, and trolley devices in said shaft including wheels in longitudinal guiding contact with said beam and rollers for contact with the inner surface of said shaft.

2,656,886
PLEATING
Alexander McDonald Hess, New York, N. Y.
Application December 26, 1950, Serial No. 202,778
5 Claims. (Cl. 160—348)



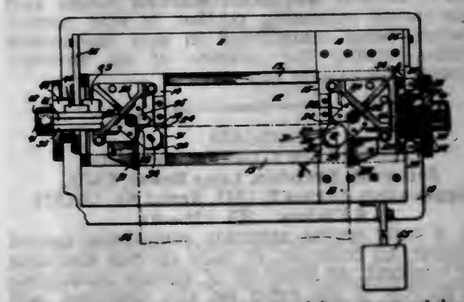
2. A pleating strip adapted for attachment to a drapery, curtain or the like and having impressions therein suitable for forming a plurality of pleats on the forward face of the drapery, said strip formed with slots positioned to occur one on either side of a completed set of a plurality of pleats, and one at each of the inner ends of the intermediate pleats of the plurality of pleats, straps formed in and of the strip, each formed with locking shoulders, one at each end, said straps inserted in said slots and retaining the inner ends of the pleats from falling forward and the plurality from separating.

2,656,887
BLANKING DIE
John S. Judd, Detroit, Mich., assignor to Lyon, Incorporated, Detroit, Mich., a corporation of Delaware
Application October 11, 1948, Serial No. 53,911
7 Claims. (Cl. 164—33)



1. In a punch press type of die assembly, a pair of die members one of which has a radially outwardly facing periphery and the other of which has a radially inner periphery, with said peripheries complementary and in opposition in the assembly of the members, limited segmental peripherally spaced areas of said peripheries being formed on substantially complementary concentric press fit circularity with major intermediate portions of each of the peripheries inset so that the die members can be assembled by initially disposing the common circular segmental areas of the respective peripheries in the inset areas of the opposing periphery and then relatively turning the members to bring the common circular peripheral segmental areas into engagement with substantially, press fit effect to attain true concentricity of the die members.

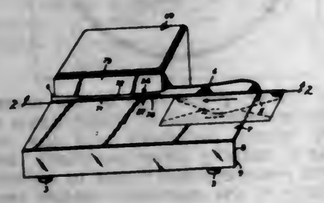
2,656,888
ROUND CORNERING MACHINE
Charles C. Cruzan, Salt Point, N. Y., assignor to Wire-O Corporation, Poughkeepsie, N. Y., a corporation of New York
Application May 11, 1951, Serial No. 225,763
2 Claims. (Cl. 164—51)



1. A round cornering machine comprising a table for supporting a stack of sheets, bases

transversely adjustable on said table toward and away from each other, dies and companion cornering knives mounted on said bases, gages for opposite edges of the stack on said bases, means for securing one of said bases relatively stationary in transversely adjusted relation on the table, means slidingly confining the other base on the table for jogging action in respect to the stationary base, a vertically reciprocating beam extending across the table above said bases, said knives having projecting studs in transversely slidable engagement with said beam whereby said knives will be actuated regardless of transverse adjustment of the relatively stationary base and regardless of jogging movements of the other base and means connected with said beam for effecting the jogging movement of said jogging base.

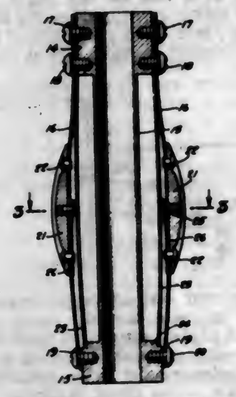
2,656,889
AUTOMATICALLY OPERATED CUTTING WHEEL FOR OPENING ENVELOPES
Benjamin B. Kaplan, St. Paul, Minn., assignor to Industrial Molded Products Co. Inc., St. Paul, Minn., a corporation of Minnesota
Application October 7, 1949, Serial No. 120,021
2 Claims. (Cl. 164—60)



1. In an envelope opening machine, a base plate including a cutting zone and an envelope feeding zone, co-acting cutting wheels positioned on said base plate in said cutting zone, means for driving said cutting wheels, said means comprising an electric motor, a motor starting means, a control member connected to said motor starting means and having a downwardly extending portion positioned ahead of said cutting wheels and extending toward said envelope feeding zone, whereby said downwardly extending portion will be engaged by the edge of an envelope inserted between said cutting wheels, said downwardly extending portion of said control member being movable from said downwardly extending position ahead of said cutting wheels to a position wherein said portion is raised slightly above the juncture of said cutting wheels in response to the movement of an envelope through said cutting zone to actuate said motor starting means, said downwardly extending portion of said control member being maintained in said last-named position during the passage of an envelope through said cutting zone.

2,656,890
ADJUSTABLE BELLY SPRING
Arthur H. Brandon, Long Beach, Calif.
Application August 2, 1951, Serial No. 239,972
8 Claims. (Cl. 166—4)

1. A belly spring assembly comprising spaced supports, an outer set of belly springs spanning said supports, an inner set of springs underlying the springs of the outer set also spanning said supports, and screws mounted on the springs of the outer set adjustable toward and away from springs of the inner set to adjust the pressure exerted by the springs of the inner set in opposing



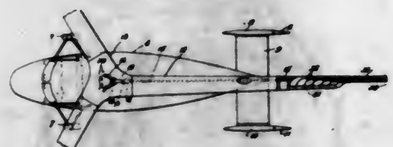
inward forces applied to the springs of the outer set.

2,656,891
APPARATUS FOR PLUGGING WELLS
Lester W. Teelke, Houston, Tex.
Application March 2, 1948, Serial No. 12,523
3 Claims. (Cl. 166—13)



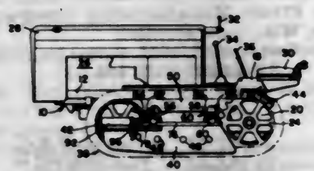
1. A well plugging device, comprising, a generally cylindrical hollow closed body insertible in a well bore, said body having a tubular side wall and end closures of greater thickness than said side wall, said side wall being constructed of metallic material which is expandible under internally applied fluid pressure into permanently set plugging engagement with said well bore without rupture of said side wall, an explosive material confined within said body adapted upon being set off to generate said fluid pressure within said body, an internally threaded box in the upper one of said end closures, a passageway providing communication between said box and the interior of said body, a tubular sub having its lower end screwed into said box and having an axial bore communicating with said passageway, an electrically fired initiator element extending into said bore adjacent its upper end, and connector means for releasably connecting said sub to a lowering cable adapted to carry electric current to said initiator element, said initiator being mounted in said connector means.

2,656,892
AIRCRAFT SUSTAINING ROTOR BLADE WITH SUCTION SYSTEM FOR BOUNDARY LAYER CONTROL
Harris S. Campbell, Bryn Athyn, Pa., assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware
Application October 19, 1948, Serial No. 55,254
3 Claims. (Cl. 170—135.4)



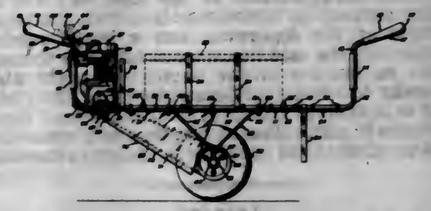
1. For an aircraft sustaining rotor, a rotor blade having, at least in the tip region of the blade, an abrupt reversely curved portion in the upper surface thereof, said portion being located chordwise intermediate the trailing edge and the mid region of the blade, and the said reversely curved portion having a plurality of slots for intake of air, and air suction mechanism comprising ducts individually communicating with said slots and extending within the blade radially outwardly from the slots for air discharge under the action of centrifugal force acting on the columns of air in the ducts.

2,656,893
OVERLOAD BRAKE MEANS FOR VEHICLES
Jesse G. Lindeman, Yakima, Wash., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application December 29, 1949, Serial No. 135,607
16 Claims. (Cl. 188—9.1)



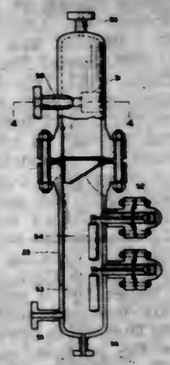
1. For use in a tractor of the track-laying type having a longitudinal body part, a drive sprocket journaled at one side of the body part, a track frame part alongside the body part and ahead of the sprocket, an idler wheel spaced ahead of the sprocket and carried by the track frame part for rearward yielding relative to the track frame part and sprocket, an endless track chain trained about the sprocket and idler wheel, and means mounting the track frame part on the body part providing for rearward shifting of the track frame part relative to the body part and sprocket in response to forces of predetermined magnitude: a progress-impeding device having a drive-sprocket-engaging portion, and also having a mounting portion for mounting the device on one of the aforesaid parts for movement relative to the body part from a normal position free of the sprocket to a position in which said sprocket-engaging portion engages the sprocket; and said device having means thereon for receiving force from the track frame part for moving the device to sprocket-engaging position incident to a predetermined extent of rearward movement of the track frame part relative to the body part.

2,656,894
HANDLE GUIDED CARRIER AND POWERED WHEEL THEREFOR
Cash E. Giovannoni, Boulder City, Nev.
Application January 27, 1950, Serial No. 140,888
2 Claims. (Cl. 180—19)



1. A mono-wheel carrier comprising a longitudinally elongated horizontal frame having handles on its forward end, a fixed mono-wheel supported to depend from said frame at a point midway the opposite ends of said frame, a motor mounted on the forward end of said frame, means operatively connecting said motor and said mono-wheel, and control means for said operating means mounted on said frame in the region of said handles, said operating means comprising a driven pulley fixed on said mono-wheel, a drive pulley operatively associated with said motor, and a belt trained over and between said pulleys, said operating means further comprising a member pivotally supported on said frame to swing forwardly and rearwardly and carrying said drive pulley, and spring means normally maintaining said member and said drive pulley in a rearwardly swung position wherein said belt is slack and fails to operatively connect said pulleys, said control means being pivoted on one of said handles for swinging said member forwardly from retracted position to take up the slack in said belt and operatively connect said drive and driven pulleys so as to turn said mono-wheel to move the carrier forwardly over the ground while guided by the front handles.

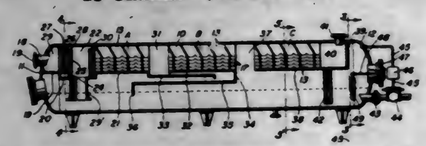
2,656,895
CONTINUOUS SEPARATOR
Leo Kasehagen, West Chester, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
Application June 17, 1948, Serial No. 33,559
2 Claims. (Cl. 183—2.7)



1. A device for continuously separating a gas and a slurry of suspended solids in liquids from a mixture thereof, comprising a vertically disposed separator having in its upper portion an inlet for the mixture to be separated and further having

a gas outlet above said inlet and a slurry outlet in the lower portion of the separator, a condenser connected to the said gas outlet to condense vapor picked up by the gas from said slurry, a liquid level sight glass disposed outside of said separator and having a lower connection communicating with the lower portion of the separator and an upper connection communicating with the upper portion of the separator, and a liquid conduit connecting the said liquid condenser and the said lower connection of the liquid level sight glass whereby to return condensed liquid to the slurry and to provide a supply of clear condensed liquid to the said sight glass to function as a visible indicator of the level of slurry in the said separator.

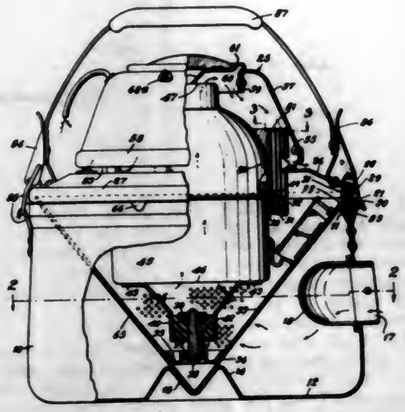
2,656,896
HORIZONTAL SEPARATOR
Clarence O. Glasgow, Tulsa, Okla., assignor to National Tank Company, Tulsa, Okla., a corporation of Nevada
Application January 11, 1950, Serial No. 138,001
15 Claims. (Cl. 183—2.7)



1. A fluid separator including an elongate horizontal tank having an inlet at one end and a liquid outlet at its opposite end, a plurality of separating units spaced apart substantially in line in the upper portion of the tank and disposed longitudinally of the tank, said units each comprising a plurality of closely spaced plates extending longitudinally of the tank, a transverse member in the tank shutting off the bottom of the first unit from the tank therebelow, an elongate wide degassing conductor extending longitudinally in the tank and receiving liquid separated in the first unit and having a discharge to the lower portion of the tank, said tank having an oil level below said conductor, and a gas escape through the wall of the tank connected with the last separating unit.

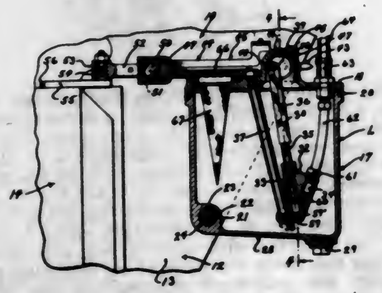
2,656,897
SUCTION CLEANER
Edward H. Yonkers, Jr., Glencoe, Ill.
Original application March 20, 1948, Serial No. 16,111, now Patent No. 2,587,565, dated February 26, 1952. Divided and this application November 24, 1950, Serial No. 197,361
1 Claim. (Cl. 183—37)

A suction cleaner comprising a cylindrical dirt receiving pail having a dirt laden air intake at the pail side and having an annular rim, said pail having means for supporting an inverted paper filter cone in vertical position, a suction assembly disposed upon the pan rim, said assembly comprising a rigid air permeable conical backing member having a rim portion for resting upon the pan rim, said backing member having a generally flattened tip portion vertically spaced above the filter paper tip, a motor blower unit above the backing member, said unit having a bracket depending therefrom toward the flattened backing member tip portion, said unit having an annular flange, a solid annular support member having the inner edge disposed below the motor blower flange and having the outer edge disposed above the rim portion of the backing member, a gasket between the annular flange of the motor blower unit and inner edge portion of the annular support member, a gasket between the outer edge portion of the annular support member and rim portion of the backing member, said motor blower unit and annular support member being freely removable from each other, said motor blower unit having an air intake below the



annular support member and having an air discharge above the annular support member, and bolt means extending between the flattened tip portion and bracket constituting the sole means for maintaining as an assembly the motor blower unit, annular support member and backing member.

2,656,898
CAR WHEEL FLANGE LUBRICATOR
Daniel Allcott Kelly, Milwaukee, Wis., assignor to The Prime Manufacturing Company, Milwaukee, Wis., a corporation
Application April 5, 1951, Serial No. 219,369
3 Claims. (Cl. 184—3)



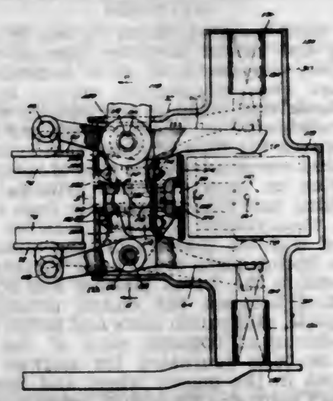
1. In a flange oiler for car wheels, an oil reservoir, means rockably connecting the oil reservoir to a sprung part of a car truck, a pump in said reservoir including a cylinder and a pump plunger reciprocally mounted in the cylinder, an operating lever carried by the reservoir and operatively connected to the pump plunger, an attaching plate rigidly secured to an unsprung part of the car truck having a vertically disposed pivot, an operating arm movable on said pivot, a ball head carried by the operating arm for movement therewith, and a socket for said ball head carried by the lever.

2,656,899
APPARATUS FOR SUPPLYING A LIQUID TO A FLUID PRESSURE MEDIUM UNDER FLOW
Peter Ketelsen, Wichita, Kans.
Application May 11, 1951, Serial No. 225,788
14 Claims. (Cl. 184—55)



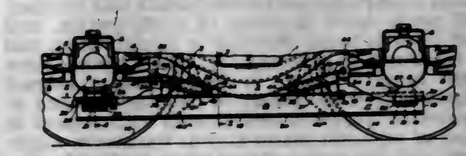
1. A device of the character described including a receptacle for a fluid to be dispersed in a flow of fluid pressure medium, a head connected with the receptacle and having a passage provided with an inlet and an outlet for the fluid pressure medium, aspirating means in said head for effecting discharge of liquid into the pressure medium, a capillary feeder having connection with the aspirating means for feeding the liquid to the aspirating means, a pump having an inlet in connection with the receptacle and an outlet in connection with the capillary feeder, said pump including a rotary element for elevating fluid from the inlet to the outlet, actuating means in said head and in path of flow of the pressure medium and having a driving connection with the rotary element.

2,656,900
ROTOR BRAKE
Carl E. Tack, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application May 28, 1949, Serial No. 95,961
12 Claims. (Cl. 188—107)



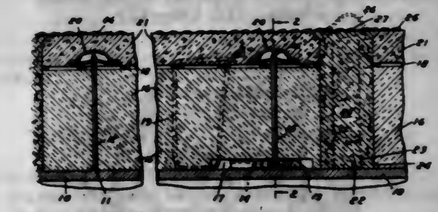
1. In a brake arrangement for a railway car truck having a wheel and axle assembly including rotatable brake surfaces; the combination of a brake support structure mounted on the truck and including a cylinder housing, a cylinder and piston device in said housing, a pair of levers pivotally fulcrumed to said structure and having their inner ends projecting into the housing and operatively associated with said device, friction means carried by the levers for braking engagement with said surfaces, said levers having pairs of arms respectively on their adjacent sides, an equalizer between the levers, an operating lever projecting between the arms of one pair and engaged with the equalizer, loops surrounding respective pairs of arms and the equalizer, one of the loops surrounding a portion of the operating lever, and independent springs within the housing associated with the inner ends of respective levers for yieldingly urging the same to release position.

2,656,901
BRAKE BEAM SUPPORT
Glenn F. Couch, Rochester, N. Y., assignor to The Symington-Gould Corporation, Depew, N. Y., a corporation of Maryland
Application September 13, 1946, Serial No. 696,282
2 Claims. (Cl. 188—207)



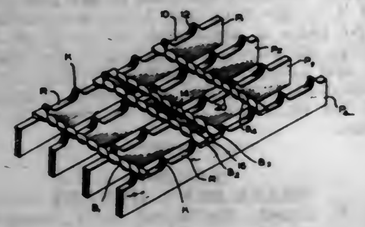
1. In a brake beam support of a railway truck the combination with a side frame having a journal box adjacent each end thereof, of a yoke depending from said journal box, a resilient shoe in each of said yokes, substantially flat contacting surfaces on said shoes and yokes, and a brake beam supporting sill having end portions in said yokes and supported therein on said shoes, said shoes being interlocked with said sill for longitudinal movement therewith relative to said yokes.

2,656,902
INSULATED HEAT CONDUCTING UNIT
William W. Gotshall, Detroit, Mich.
Application May 1, 1951, Serial No. 223,989
3 Claims. (Cl. 189—34)



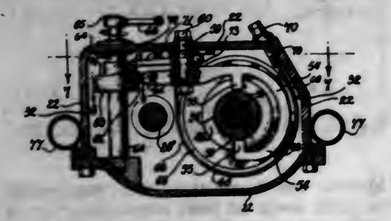
1. Means for insulating the expansible and contractable walls of heat conducting units having their outer surfaces divided into sections, comprising: an upstanding anchor pin welded at a predetermined spot on each section, a plurality of pin guide members welded to each section at selected spaced apart locations thereon each member having its longitudinal axis radially disposed in relation to its anchor pin, an upstanding pin guideably disposed in each member, a composite insulating panel impaled upon the upstanding pins of each section, and flexible insulation packed between the lateral edges of the panels and a continuous sheet of canvas adheringly secured to the outer surfaces of said panels to flexibly overlie said flexible insulation.

2,656,903
GRATING
Philip Kerrigan, Jr., Nashville, Tenn., assignor to Kerrigan Iron Works, Inc., Nashville, Tenn., a corporation of Tennessee
Application December 6, 1950, Serial No. 199,450
3 Claims. (Cl. 189—82)



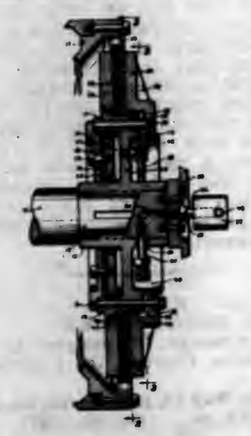
1. A grating comprising a plurality of similar load bearing spaced parallel longitudinally extending flat metal plates, the upper edges of said plates comprising alternating peaks and recesses, said peaks being identical in configuration, and said recesses being identical in configuration and of substantially constant depth, said peaks of one plate being disposed in longitudinally aligned relationship with respect to one another and in transverse staggered relationship with respect to those of adjacent plates and in transverse alignment with the center of said recesses of said adjacent plates, and a plurality of load bearing spaced straight parallel bars integrally secured in transverse relation across the upper edges of said plates, said bars resting in the recesses of said plates and being secured to corresponding edges of said peaks of alternate plates, and being secured to the adjacent edge of the peak of the plate intermediate said alternate plates, the uppermost surfaces of said peaks and the uppermost surfaces of said bars being disposed in substantially the same plane forming a load supporting surface.

2,656,904
CLUTCH AND BRAKE CONTROL FOR ENDLESS TRACK VEHICLES
Joseph Wilfrid Gremier, Giffard, Quebec, Canada
Application June 7, 1950, Serial No. 166,597
1 Claim. (Cl. 192—17)



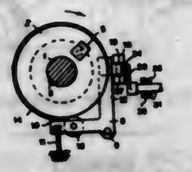
A combination brake and clutch mechanism comprising a housing, a driving and a driven shaft in alignment with each other and extending in said housing, a brake drum keyed to said driven shaft, axial therewith and surrounding said driving shaft, interengageable clutch means depending respectively from said brake drum and said driving shaft and longitudinally displaceable with respect thereto, a thrust plate on said driving shaft longitudinally displaceable for causing mutual engagement of said clutch means, a first lever pivoted intermediate its ends about a pivot fixed to said housing and perpendicular to said shafts, the inner end of said first lever forming a fork contacting said thrust plate, a brake band surrounding said brake drum and attached at one end to said housing, a second lever pivoted at its inner end about a pivot fixed to said housing and parallel to said shaft, said second lever connected intermediate its ends to the free end of said brake band, a cam element rotatably mounted in said casing about an axis perpendicular to said shafts and having two mutually perpendicular cam faces respectively engaging the outer ends of said first and second lever and a single control member for rotating said cam member, whereby said driving and driven shafts are declutched and said driven shaft is braked upon rotation of said cam member in one direction.

2,656,905
FLUID OPERATED FRICTION CLUTCH
Robert S. Langdon, Seattle, Wash., assignor to Western Gear Works, Seattle, Wash., a corporation of Washington
Original application August 13, 1945, Serial No. 610,465. Divided and this application August 1, 1950, Serial No. 177,913
3 Claims. (Cl. 192—85)



1. A fluid-operated clutch for use in coupling driving and driven members journal-mounted for rotary movement about a coinciding axis, a master wheel coupled for unitary movement with the driving member, said master wheel being formed with an annular open-end cylinder for receiving the fluid medium, said cylinder being placed concentric to the axis of rotation and presenting an integral clutch principal having its working face directed opposite from the open end of the cylinder, a piston received in said cylinder, a clutch plate facing the clutch principal, a fricton plate coupled for unitary rotary movement to the driven member and occupying a position between the clutch principal and clutch plate, said clutch plate and piston occupying positions at opposite sides of the master wheel, tie-bolts journaled for endwise sliding movement in the master wheel and connecting the clutch plate and the piston, spacing pins slidably received through the master wheel with one end thereof secured to the clutch plate, and springs carried by said pins and arranged to yieldingly resist inward movement of the clutch plate toward the clutch principal.

2,656,906
SAFETY MECHANISM FOR UNCOUPLING A SHAFT FROM THE DRIVING MEMBER OF A MACHINE
Adrianus van Haandel, deceased, late of Helmond, Netherlands, by Johannes Hubertus van Haandel, legal representative, Helmond, Netherlands, assignor to Nedschroef Octrooi Maatschappij N. V., Helmond, Netherlands, a company of the Netherlands
Application March 13, 1951, Serial No. 215,399
In the Netherlands March 16, 1950
3 Claims. (Cl. 192—129)



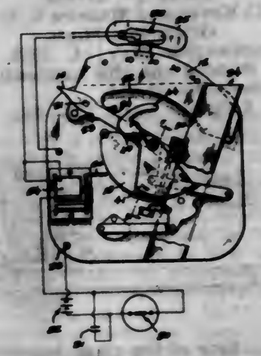
1. In a safety mechanism for disengaging a coupling between a shaft and the driving member of a machine including a coupling member slidable parallel to the shaft, means for biasing the coupling member to coupling position and a wedge-shaped member movable into the path of the coupling member for engaging and moving it out of its coupling position, the improvement comprising means for biasing said wedge-shaped member away from the path of the coupling member, means operable on rotation of the shaft for rocking said wedge-shaped member into the path of said coupling member without normally causing said wedge-shaped member to engage said coupling member, means responsive to the occurrence of a fault in the operation of the machine for retaining the wedge-shaped member in its rocked position in the path of said coupling member, whereby the wedge-shaped member is engaged by the coupling member and the latter moved out of coupling position, a braking means operable on the shaft and interconnected with said wedge-shaped member, and means operable for applying said braking means when the wedge-shaped member is retained in its uncoupling position and engaged by the coupling member.

2,656,907
METHOD OF AND MEANS FOR HANDLING BISCUITS
Alfred Cornelius Page, Belgrano, Buenos Aires, Argentina, assignor to Wright's Biscuits Limited, South Shields, England, a British company
Application September 21, 1949, Serial No. 116,966
In Great Britain October 21, 1948
7 Claims. (Cl. 193—25)



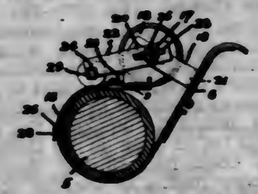
1. In a biscuit feeding machine of a type wherein a series of biscuits entering a hopper are sequentially fed along a chute comprising two curved bands arranged so as to rotate the respective axis of each biscuit, seriatim, from a vertical to an horizontal plane, the improvement which includes means whereby said curved bands become flexible at the portions thereof between which said biscuits are vertically confined, and other means affixing the respective ends of both bands to said hopper, whereby said bands are adapted to float in use under pressure exerted thereupon by said biscuits.

2,656,908
PARKING METER CONTROL SYSTEM
John A. T. Ellison, Seattle, Wash.
Application February 3, 1950, Serial No. 142,149
6 Claims. (Cl. 194—1)



1. In combination with a coin-operated parking meter related to a given parking zone and embodying a coin chute and time-indicating means reset by the passage of a coin along said chute for visually indicating a predetermined permissible parking time, and with the passage of time indicating the amount of the said parking period remaining, a normally closed magnetic switch opened by attraction or repulsion of a vehicle parked in the zone, means provided in the meter movable from a normally inactive position, and controlled by a coin-activated resetting of the time-indicating means, into an interruptive position in the travel path of a coin moving along said coin chute to prevent a resetting operation, locking means contained in an electric circuit including said magnetic switch for releasably locking the coin-interrupting means in its coin-interrupting position and caused to be unlocked by a closing of the switch, and means for moving said coin-interrupting means into its said inactive position when the locking means is unlocked.

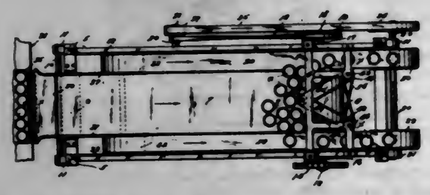
2,656,909
DUPLICATING ATTACHMENT FOR TYPEWRITERS
Norman S. McEwen, Fort Lauderdale, Fla., assignor to Mul-T-Typer Corporation, Richmond, Ind., a corporation of Indiana
Application September 26, 1952, Serial No. 311,579
5 Claims. (Cl. 197—153)



1. The combination with a typewriting machine platen and a paper holding bar for pressing record sheets against the same; of a frame

resting upon said machine, a pair of arms projecting from said frame and engaged in spaced relationship upon said platen, a pair of links secured at one end to said frame and engaged at their other ends with said bar, ribbon spools rotatably mounted at the ends of said frame, spaced guide wires connecting the ends of said arms, and a ribbon secured at its ends upon said spools and extending from one of said arms to the other between said guide wires.

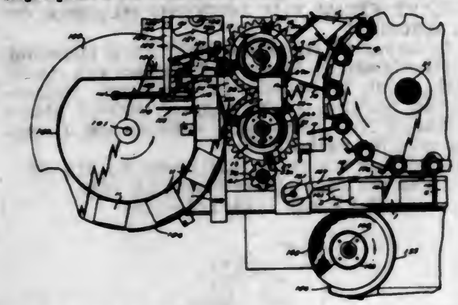
2,656,910
MEANS FOR CONVEYING AND ARRANGING CANS IN ROWS
Edwin C. Kraus and Maurice V. Douthitt, Ortonville, Minn.
Original application May 14, 1947, Serial No. 748,132. Divided and this application January 12, 1949, Serial No. 70,544
9 Claims. (Cl. 198—30)



1. In a machine of the class described, a main frame, an endless main conveyor belt for carrying receptacles thereon in bulk, an endless auxiliary conveyor belt at each side of the main conveyor belt, means for driving the conveyor belts at different speeds, the speed of the auxiliary conveyor belts being materially faster than the speed of the main conveyor belt, a pair of deflectors for directing the receptacles onto the auxiliary conveyor belts in single rows, said deflectors including a bearing frame overlying the main frame, an upright shaft at the transverse center of the main conveyor belt journaled on the bearing frame, a pair of laterally spaced upright shafts journaled in bearings on the main frame forwardly of the main conveyor belt, two pairs of pulleys on the first noted shaft, a pair of pulleys on each of the last noted shafts, a pair of upper and lower belts arranged to run over the pulleys on each of the last noted shafts, and one of the pairs of pulleys on the first noted shafts, and means for driving the last noted shafts including driving connections between said shafts.

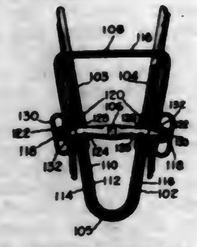
2,656,911
CONTAINER FEED AND DISCHARGE MECHANISM
John Boyce, San Jose, and John C. Olsen, Campbell, Calif., assignors to Food Machinery and Chemical Corporation, a corporation of Delaware
Application March 8, 1948, Serial No. 13,696
20 Claims. (Cl. 198—31)

1. A container handling mechanism comprising screw means for translating a single file of progressing containers into a procession of superposed containers travelling at right angles to said single file, means mounted in a position adjacent to said screw means for blocking the progress of the containers fed in a single file thereto and for guiding said containers during their elevation upon said screw means to thereby form a procession of containers in superposed relation, and means mounted to actuate said blocking and guiding means in timed relation with said screw means in a manner effective to unblock the superposed containers and push them from said



screw means for further progress in superposed relation.

2,656,912
SPECTACLE CASE
Raymond F. E. Stegeman, Greece, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application July 1, 1952, Serial No. 296,553
1 Claim. (Cl. 206—5)

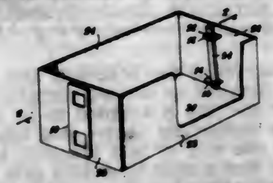


A spectacle case comprising a channel shaped resilient member which is substantially U-shaped in vertical section, said member having integrally connected front and rear walls, pliable sheet material enclosing said walls to form a lining and a covering for the case, said sheet material having a flap forming a closure for the open top of the case, a stud extending inwardly through the rear wall, a stud extending outwardly through the front wall and having a rearwardly facing opening, a spring socket on the flap cooperating with the outwardly extending stud for releasably holding the flap, and a post holding said walls in spaced relation, one end of the post being tapered and positioned in the rearwardly facing opening in the stud in the front wall, the other end of the post having a socket formed therein, the inwardly directed stud in the rear wall being positioned in said socket, the resilience of the member exerting a clamping action to hold the studs in engagement with the ends of the post.

2,656,913
GARMENT HOLDING CASE
Simon Kaplan, Brooklyn, N. Y.
Application June 2, 1950, Serial No. 165,806
2 Claims. (Cl. 206—7)

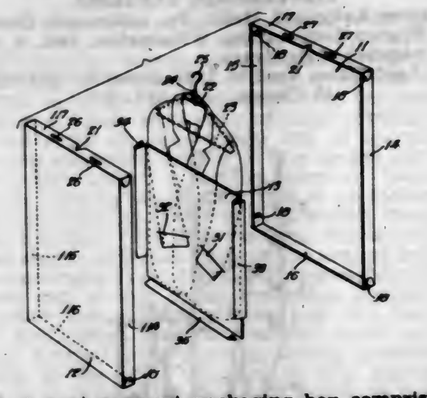
1. A garment rack supporting assembly comprising an open-ended corrugated paper garment shipping case having at least one wall perforated at predetermined locations thereon, a base plate positioned against the outer surface of said perforated wall and disposed substantially perpendicular to the open end of said case, a pair of spaced garment rack supporting ears perpendicularly

mounted adjacent the extremities of said base plate and sized to extend through the perforations in said wall into the interior of said case, a first garment rack receiving aperture disposed in the supporting ear positioned remote from the open end of said case and sized to position a garment rack inserted therein a predetermined distance from the wall of said case, a second and larger garment rack receiving aperture disposed in the supporting ear positioned adjacent the open end of said case sized to permit the posi-



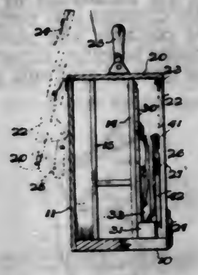
tioning of a garment rack at said predetermined distance from the wall of said case, a garment rack longitudinally disposed within said apertures for mounting clothing hanger hooks thereon, and means associated with said second aperture for removably securing said rack therein in position at said predetermined distance from the inner wall of said case to compressively engage said hooks intermediate said rack and the inner surface of the wall of the shipping case disposed between said rack and said base plate.

2,656,914
GARMENT PACKAGING BOX
Harry B. Gordon, Highland Park, Ill.
Application November 21, 1951, Serial No. 257,575
4 Claims. (Cl. 206—7)



1. A coat garment packaging box comprising a bottom component made of sheet material profiled to define a first principal panel with first peripheral wall panels erectable perpendicular to said principal panel, a top component also made of sheet material profiled to define a second principal panel marginally larger than that of said bottom component with second peripheral wall panels erectable perpendicular to said top component principal panel means for holding a garment coat to one portion of the first peripheral wall panel, and a lashing plate which comprises a panel having slit apertures for receiving therethrough lowermost extremities of the garment coat and including double folded side portions spaced to straddle portions of said first peripheral wall panels remotely from said one portion and to be in turn encompassed by said second peripheral wall panels.

2,656,915
UTILITY SICK-CALL CASE
Raymond G. Ecking, Evansville, Ind.
Application March 3, 1950, Serial No. 147,469
4 Claims. (Cl. 206—19)



1. A sick call set, comprising a case having a body portion with a cover foldably hinged to said body portion, said cover forming the top and front walls of the case, a recessed panel permanently secured in the case, a crucifix detachably mounted on the panel, laterally disposed swivel candle holders mounted in front of the said panel, storage means in the rear of the panel for the reception of sacramentals, carrying means secured to the top of the case, and means for locking the cover to the case, said hinged cover being foldable upon itself to expose the crucifix and candles and to afford access from the top to the storage means for the sacramentals.

2,656,916
DISPENSING PACK FOR INTERFOLDED SHEET MATERIAL
Charles A. Henderson, Appleton, Wis., assignor to International Cellucotton Products Company, Chicago, Ill., a corporation of Delaware
Application October 6, 1950, Serial No. 188,835
6 Claims. (Cl. 206—57)



3. A dispensing package of sheet material comprising a pack of interfolded sheets doubled on itself about an axis paralleling the planes of the sheets and extending transversely of the fold formed edges thereof, the innermost fold of the inside sheet of said pack having a portion thereof displaced from its normal position to extend from the side of the pack formed by the free ends of the legs thereof, and a container for said doubled pack having a dispensing opening overlying the side of the pack formed by the free ends of the legs thereof, thereby permitting access to said portion of the inside sheet to facilitate withdrawal of said inside sheet from the pack.

2,656,917
DISPLAY CARD FOR SPECTACLES
Morton Hollis, Newton Center, Mass., assignor to Foster Grant Co., Inc., Leominster, Mass., a corporation of Massachusetts
Application July 19, 1950, Serial No. 174,728
2 Claims. (Cl. 206—79)

1. A display card for spectacles comprising a blank having a bendable unit formed therein for

holding and supporting a pair of spectacles mounted on the card so that the article is visible on the front of the card, said unit being defined by a pair of spaced apart slits, the lower ends of said slits having outwardly directed portions which portions are connected by a bottom slit having upwardly directed side portions, said outwardly directed portions and said upwardly directed side portions together forming tabs at the lower end of the sides of said unit, a substantially



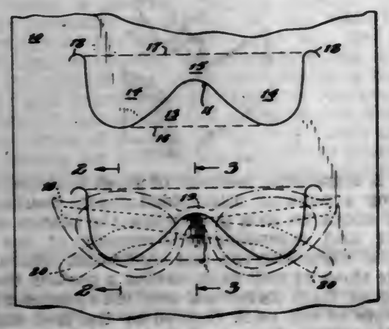
U-shaped slit defining a tongue at the center of the unit, all of said slits extending through the thickness of the blank, the front face of the blank being scored to facilitate bending, one score being disposed across the upper ends of the first mentioned slits, other scores extending horizontally between said slits and the sides of the U-shaped slit at about the middle of the height of the unit, and another score extending vertically from the bottom slit to the lower end of the U-shaped slit at about the vertical median line of the unit.

2,656,918

SPECTACLES DISPLAY CARD

Merton Hollis, Newton, Mass., assignor to Foster Grant Co., Inc., Leominster, Mass., a corporation of Massachusetts

Application March 29, 1951, Serial No. 218,183
1 Claim. (Cl. 206—79)
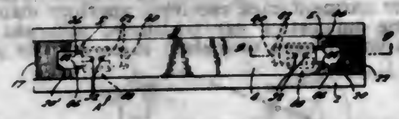


In combination, a display card and a pair of spectacles mounted for display thereon with no portion of the card covering any portion of the front of the frame of the spectacles, said card having two downwardly projecting fingers and a single intervening upwardly projecting finger, said spectacles having its temples folded to cross each other and being mounted and held on the card with the downwardly projecting fingers of the latter inserted and engaged between the temples and the rear face of the spectacle frame, and with the upwardly extending finger inserted and engaged between the rear face of the bridge portion of the frame and the temples substantially at the point where they cross.

2,656,919

DISPLAY CARD FOR BRACELETS AND THE LIKE

Walter Krust, Brooklyn, N. Y., assignor to Jacoby-Bender, Inc., New York, N. Y., a corporation of New York

Application June 14, 1950, Serial No. 168,073
14 Claims. (Cl. 206—80)



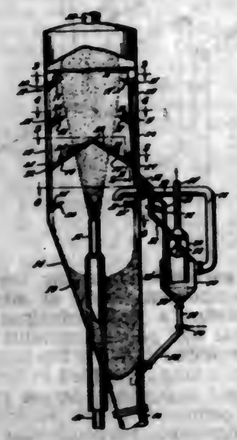
13. A display card for bracelets and the like comprising a support on the top surface of which a bracelet or the like is adapted to be placed, a first fastener projecting above said top surface for engaging one end of said bracelet, said support having a slot spaced from said first fastener and extending toward and away therefrom, a second fastener comprising a body mounted on the undersurface of said support and having a pair of fingers passing through said slot and projecting above said top surface for engaging the other end of said bracelet, said fingers being resiliently urged apart, and a unitary fastening means of fixed effective length simultaneously engaging said support and said second fastener and pressing said second fastener against the undersurface of said support, said second fastener being manually movable in the direction of said slot to adjusted position and retained in said adjusted position by friction.

2,656,920

ELUTRIATOR FOR HYDROCARBON CONVERSION SYSTEMS

Reyner Kollgaard, Media, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware

Application April 30, 1952, Serial No. 285,269
12 Claims. (Cl. 208—20)



7. In a circulatory system for granular material wherein said material gravitates as a compact moving column along a down-flow path and is thereafter elevated by means of lift gas through one or more lift pipes, with consequent attrition of said granular material such as to require removal from said system of small-size attrited particles, the combination of a disengaging chamber containing the upper end portion of at least one of said lift pipes, said disengaging chamber extending above the discharge end of said lift pipe a distance sufficient to permit substantially complete gravitational deceleration of granular material discharged from said lift pipe, and having an upper outlet for disengaged lift gas and a lower outlet for disengaged granular material, one or more trays attached to the side of said disengaging chamber above said discharge end of said lift pipe and adapted to intercept freely falling granular material, at least one of said trays being located in the upper region of disengagement to thereby intercept a portion of the disengaged granular material having a relatively high concentration of small-size particles, an elutriating chamber having contact material and elutriating gas inlets, and having an outlet for large-size particles of granular material and an outlet for said elutriating gas and entrained small-size particles of granular material, and means for passing said portion of intercepted granular material having a relatively high concentration of small-size particles to said elutriating chamber.

2,656,921

DEVICE FOR SEPARATING POTATOES FROM STONES

Franklin Daniel Gray, Hillsburgh, Ontario, and Edward Greff Snyder, Preston, Ontario, Canada

Application September 23, 1950, Serial No. 186,352
7 Claims. (Cl. 209—72)



1. In a device for separating stones from potatoes, a first conveyor, a second conveyor having its conveying surface in a substantially horizontal plane and mounted relative to said first conveyor to receive the discharge from the first conveyor, a brush separating member rotatably mounted about its longitudinal axis to operate above the conveying surface of said second conveyor, said brush separating member being mounted with its longitudinal axis at an incline to the direction of travel of said second mentioned conveyor, said first conveyor discharging to said second conveyor adjacent the area of said second conveyor that in operation approaches the forward end of said brush separating member, and power means for operating said first conveyor, said second conveyor, and said brush separating member, said brush separating member rotating in the same direction as said second conveyor to sweep potatoes carried thereto by said second conveyor laterally of said brush, the bristles of said brush having a flexibility that will yield to permit a stone to pass thereunder when presented thereto by said second conveyor but that will not yield to permit a potato to pass thereunder when carried thereto by said conveyor, and means for collecting potatoes swept laterally of said brush.

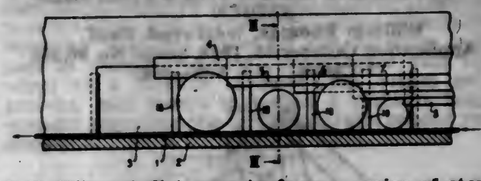
2,656,922

APPARATUS FOR GRADING FRUIT ACCORDING TO SIZE

Andries Wilhelm Janssen, Rijswijk, Netherlands

Application July 26, 1949, Serial No. 105,911
In the Netherlands August 9, 1949
1 Claim. (Cl. 209—100)

In a fruit grading device, a trough having a front wall, a rear wall and a bottom projecting beyond said front wall, the bottom of said trough being inclined downwardly towards the front wall, a belt conveyor supported on the bottom of said trough for movement lengthwise thereof, the lower edge of said front wall being spaced from the bottom to provide a fruit discharge opening, a stationary fruit grading member attached to the front wall of said trough above said belt conveyor, said grading member consisting of a plurality of adjacent parallel longitudinally extending strips, said strips being spaced from the



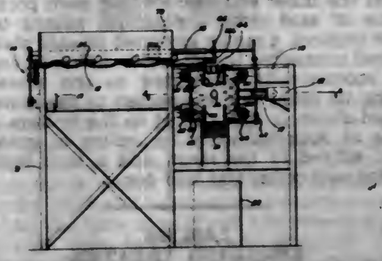
belt different distances to form a series of steps extending in an upwardly inclined direction from the front wall towards the rear wall and successively terminating to form a series of steps creating grading spaces of successively greater height in the travelling direction of the conveyor between the grading member and said belt conveyor, the edges of said first mentioned steps lying in a plane extending upwardly from said wall opening towards the rear wall, said plane forming an acute angle with the upwardly inclined conveyor surface.

2,656,923

GRAVITY SORTER AND FAST NORMALIZER

David C. Cox, Grand Rapids, Mich., assignor to Electric Sorting Machine Company, Grand Rapids, Mich., a corporation of Michigan

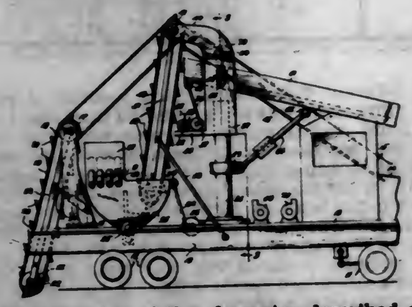
Application December 13, 1948, Serial No. 64,967
6 Claims. (Cl. 209—111)



1. In a photoelectric sorter for freely falling articles, an enclosed lamp housing of the type evenly illuminating an article falling through the center thereof, having an upper gate above and selecting mechanism below with a free passage therebetween, for articles to be sorted, shielded from extraneous light, the selecting mechanism being vertically below the upper gate, and having normal and actuated positions for directing falling articles to one or another of two paths, timing mechanism for intermittently opening and closing the upper gate, means for depositing articles one at a time upon the upper gate each time it is in a closed position, the upper gate being of the dropping leaf type, whereby opening thereof imparts no motion to the article other than that caused by the acceleration of gravity, and the upper gate comprising a plurality of symmetrical, symmetrically disposed leaves, sloping down toward a center point when the upper gate is closed for centering articles deposited thereon to provide a uniform path for articles falling through the

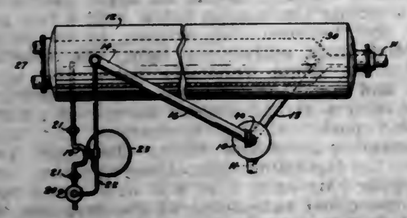
lamp housing, light responsive means communicatively connected with the lamp housing for actuating the selecting mechanism to shift it from one position to another, and mechanism connected to and synchronous with the upper gate operating mechanism for resetting the selecting mechanism in normal position.

2,656,924
SUPPORTING MEANS FOR A PORTABLE SLUICE
William Thomas, Westwood, Calif.
Application October 25, 1948, Serial No. 56,303
1 Claim. (Cl. 209—508)



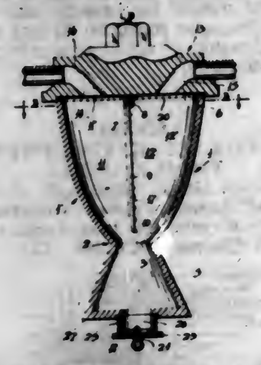
An apparatus of the character described comprising a platform, a mast centrally mounted upon the platform, a sluice support revolubly mounted upon the upper end of said mast and having a central vertically extending passage therethrough and having a vertically extending slot in each side thereof communicating with said passage, an elongated sluice extending through said supporting sluice, a guide pin extending laterally from each side of said sluice adjacent the inner end thereof and each positioned in one of said slots, a platform affixed to said sluice support, a motor mounted on said platform, a wheel connected to the motor, a link having one end eccentrically connected to the wheel and having its other end connected to the inner end of said sluice, a dog affixed to the bottom of the sluice at approximately its center of gravity, a collar affixed to the mast, and a jack interconnecting said collar and said dog.

2,656,925
EMULSION TREATER
Cecil C. Johnson, Kermit, Tex.
Application June 15, 1950, Serial No. 168,252
3 Claims. (Cl. 210—52.5)



1. In an emulsion treater for separating oil and water from oil-water emulsions, a processing tank, a horizontal fire tube extending through said tank and having one end secured to one end of said tank, a cylindrical jacket surrounding the remaining end of said fire tube and communicating with said tank and having a closed outer end connected to said fire tube, said jacket being mounted for movement through the remaining end of said tank when said fire tube longitudinally expands and contracts, a packing secured to the last referred to end of said tank and positioned around said jacket, means introducing the emulsion to be treated into the bottom of said tank and separate means discharging the separated oil and separated water from the upper and lower portions of said tank, respectively.

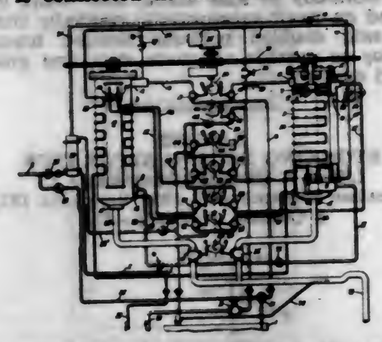
2,656,926
DEVICE FOR SEPARATING WATER AND FOREIGN MATTER FROM LIQUID FUEL
Carlos Garaycochea, Buenos Aires, Argentina
Application October 26, 1951, Serial No. 253,312
In Argentina October 30, 1950
4 Claims. (Cl. 210—57)



1. In a device for separating water and foreign matter from liquid fuel, a receptacle provided with a constricted portion defining an upper compartment and a lower compartment, there being an orifice providing communication between said upper and lower compartments, the end of said upper compartment remote from said orifice being open to define a mouth, there being a pair of diametrically opposed notches in said mouth, a rod having its end seated in said notches, a partition connected to said rod and extending into said upper compartment and having its side edges arcuate and snugly engaging the inner surface of the receptacle, said partition defining a first and second chamber with said upper compartment, and a cover mounted on the upper end of said receptacle, there being a first duct in said cover for supplying liquid to one of said chambers, there being a second duct communicating with the other of said chambers for the egress therethrough of liquid.

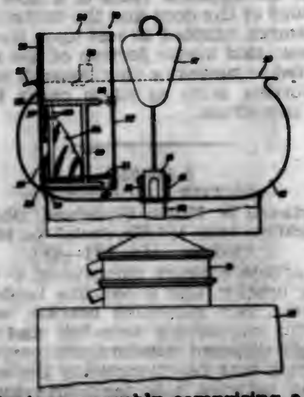
2,656,927
FLUID SUPPLY SYSTEM
James J. Prendergast, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application October 26, 1950, Serial No. 192,320
4 Claims. (Cl. 210—152)

1. In a fluid supply system, a fluid supply line, a pair of filters for removing foreign matter from said fluid, a pair of valves arranged to selectively connect said filters in said line, each of said filters having means for introducing a cleansing medium therein for removing accumulated foreign matter, a pair of valves arranged to selectively connect said cleansing medium introducing means to a source of cleansing medium, each of said filters having a drain line for draining fluid therefrom with a pair of valves respectively arranged therein for selectively opening and closing the same, each of said filters having a discharge line for discharging foreign matter therefrom with a pair of valves respectively arranged therein for selectively opening and closing the same, one of said filters being normally connected in said fluid supply line while the other of said filters is connected for draining, a plurality of cams respectively arranged to operate each of said pairs of valves in a predetermined sequence to reverse the connections of said filters so that said one filter is connected for cleaning and said other filter is connected in said fluid supply line, a



drive motor connected to operate said cams, and a differential pressure responsive switch connected across the output of said fluid supply line and the fluid input of each of said filters for sensing the fluid pressure drop across the filter connected in said fluid supply line, said switch being connected in the circuit of said motor and arranged to energise the same responsive to a predetermined fluid pressure drop across the filter connected in said fluid supply line whereby said motor operates said cams to automatically remove a congested filter from said fluid supply line and to clean the same and to connect the filter cleaned in the last cycle in said fluid supply line.

2,656,928
MILK STRAINER FOR SEPARATOR SUPPLY CANS
William H. Harstick, Oak Park, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application November 21, 1951, Serial No. 257,453
5 Claims. (Cl. 210—158)



5. A strainer assembly comprising a casing, a wall on said casing having a liquid discharge opening, a first pair of grooves formed on opposite sides of said discharge opening in said wall, a second pair of grooves formed in said wall, said second pair of grooves extending laterally with respect to said first pair of grooves on opposite sides of the opening for connection with said first pair of grooves, means for clamping a filtering element over said discharge opening comprising a flexible generally rectangular rod assembly including a first pair of laterally spaced rod elements, a second pair of laterally spaced rod elements connected at their ends to the rod elements of the first pair to form a unitary structure, means hingedly connecting said rod assembly to said casing, and means on the casing detachably engaging said rod assembly for securing said rods in resilient clamping engagement with the edges of a filtering element and within said grooves, said means including a resilient latch element engaging one of the laterally spaced rod elements.

2,656,929
DEHYDRATOR CARTRIDGE
Richard L. Dolan, De Kalb County, Ind., assignor to Bowser, Inc., Fort Wayne, Ind., a corporation of Indiana
Application November 22, 1947, Serial No. 787,557
1 Claim. (Cl. 210—169)

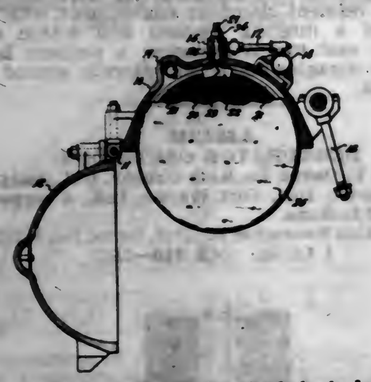


In a dehydrator cartridge, the combination of a cylindrical core pervious to liquids and forming a liquid collection chamber, a dehydrating material wound in layers about said core to form a roll, supporting means for said material between said layers, centrally perforated, yieldable means for sealing the ends of said roll and chamber and a discharge tube entering said chamber from the bottom, frictionally and sealingly entered in said central perforations, said tube having inlet passages only near the top of the chamber.

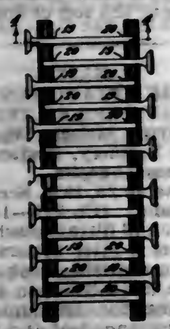
2,656,930
DRAINAGE LEAF ATTACHMENT MEANS FOR LEAF TYPE FILTERS
Reinier P. De Vries, Melrose, Mass., assignor to Revere Sugar Refinery, Boston, Mass., a corporation of Massachusetts
Application October 25, 1950, Serial No. 192,075
1 Claim. (Cl. 210—195)

An attachment and filtrate discharge nipple for a drainage leaf of a filter apparatus of the leaf type, said nipple comprising a tubular nipple body having its lower end affixed to the outlet spud of the drainage leaf for communication with the interior of said drainage leaf and thence to withdrawably extend outwardly through a wall of the filter apparatus, said nipple body having an outlet opening in its side to communicate with the fil-

trate discharge means of the filter apparatus, the outer end portion of said nipple body being externally screw-threaded, a closure plug having an external diameter corresponding to the diameter of the bore of the nipple body, the lower end portion of said closure plug being entered and immovably fixed in the outer end of the bore of the nipple body as a unitary part thereof and in closing relation thereto, the upper end portion of said closure plug projecting axially outward from the nipple body so as to provide the same with an external head member of reduced diameter, a fastening nut adapted to be passed over said head member and to screw onto the externally threaded outer end portion of the nipple body for releasably securing said nipple body in operative assembled relation to said wall of the filter apparatus, said head member having a diametric transverse opening therethrough, and a cross-bar detachably engageable through said opening, said cross-bar when in place affording hand hold means for applying leverage resistance to turning movement of the nipple body and therefore of the drainage leaf when tightening or loosening said fastening nut thereon, removal of said cross-bar from the head member permitting application of said fastening nut to the nipple body or withdrawal thereof therefrom.
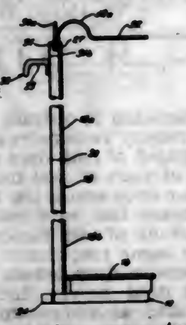


2,656,931
PACKAGING ARTICLE
Melbourne A. Beckmann, Cincinnati, Ohio, assignor to Aluminum Industries, Inc., Cincinnati, Ohio, a corporation of Ohio
Application August 17, 1949, Serial No. 110,815
2 Claims. (Cl. 211—60)



1. An end wall support constituting part of a dispensing holder for articles consisting of stem portions with enlarged annular laterally extending flanged portions, said support being formed from a blank of rectangular form provided with a series of parallel transverse slots spaced from each other by an amount slightly greater than the radii of said flanged portions, all of said slots at one end terminating in a line parallel to a blank edge and spaced therefrom by a distance slightly greater than said radii, alternate ones of said slots terminating at their other ends in a line parallel to the other blank edge and spaced therefrom by the same distance, the remaining slots at their other ends terminating in a line parallel to the blank edges, but disposed substantially centrally of said blank, said blank being doubled on itself substantially centrally thereof with said doubled portions secured together, whereby to provide alternate slots and grooves in said support.

2,656,932
STOCKING DRYING APPARATUS
Lillian E. Carr, Washington, D. C.
Application September 27, 1950, Serial No. 187,044
2 Claims. (Cl. 211—86)

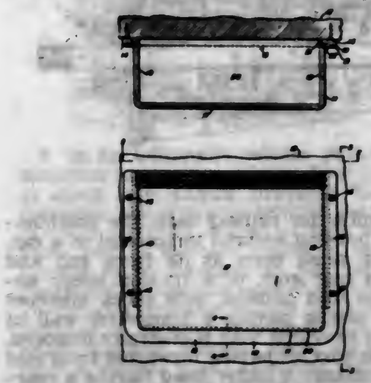


1. A stocking drying apparatus comprising a base frame, an elongated upright member extending upwardly and secured to said frame adjacent one side of the frame so that the major portion of said frame extends to one side of said member, a plurality of stocking supporting arms extending outwardly from the top portion of said upright member and over said frame, a stocking clip disposed on each of said arms, and a substantially inverted U-shaped door engaging element secured to the top portion of said upright member on the side opposite to that to which the frame extends, the legs of said element adapted to engage the opposite faces of a door adjacent the top edge of the door and the bridging portion of the element adapted to rest upon the top edge of the door, said major portion of the frame being adapted to support a tray beneath said stocking supporting arms so as to catch the water dripping therefrom.

2,656,933
ARTICLE SUPPORT
Edward W. Pieric, Cleveland, Ohio
Application June 1, 1950, Serial No. 165,390
3 Claims. (Cl. 211—88)

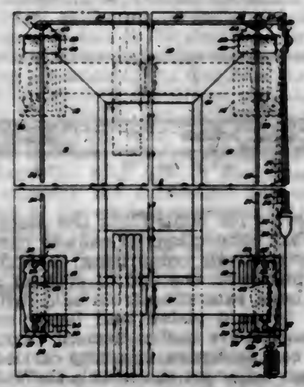
3. An article support comprising a U-shaped mounting bracket and a box-like holder receivable therein, said mounting bracket being open backed and including a base bar and first and second legs disposed substantially perpendicular thereto, said base bar comprising the sole interconnection between said legs, first tongue and groove means on the inboard side of said first and second legs, said tongue and groove means having a U-shape in cross section, mounting

holes for screws in said legs outboard of said tongue and groove means, said holes having axes substantially normal to the plane of said bracket, said box-like holder being open-topped and open-backed and including a bottom wall and a front wall and two side walls substantially mutually perpendicular, said side walls having front and rear edges with said front edges joined to edges of said front wall, second tongue and groove means connected to and outboard of said rear edges complementary to said first tongue and



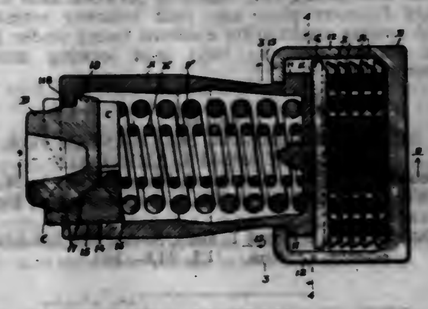
groove means, said box-like holder adapted to be received in said U-shaped mounting bracket with said first and second tongue and groove means in complementary engagement, said complementary engagement being interlocking in a direction generally normal to said side walls for mutual support of said side walls and legs, said complementary engagement also being interlocking in one direction along a path generally normal to said front wall and yet permitting relative movement between said holder and said bracket in the opposite direction along said path.

2,656,934
CURTAIN FIXTURE
Ida Lundstrom, St. Louis, Mo.
Application March 7, 1949, Serial No. 80,073
1 Claim. (Cl. 211—163)



In a curtain fixture, a pair of eyelets secured to a window casing adjacent the upper corners thereof, a third eyelet secured to the window casing and spaced outwardly from one of the first mentioned eyelets, a pair of pull-cords, said cords passing through the said pair of eyelets and both cords passing through the third eyelet and leading therefrom, a buckle connecting both cords beyond the third eyelet, a pull-cord anchor pin carried by one of the side members of the window casing, a mounting member having slotted openings carried by the end of each pull-cord below the said pair of eyelets, a curtain rod bracket detachably secured to each mounting member by fastening devices passing through said slotted openings, a curtain rod detachably mounted on each bracket, said mounting members adapted to be raised and lowered by the pull-cords, and a shouldered rest plate adapted to be secured to the window casing below said pair of eyelets for the mounting members to rest upon when in their raised positions.

2,656,935
SHOCK ABSORBING MECHANISM FOR DRAFT RIGGINGS OF RAILWAY CARS
Vernon S. Danielson, Dolton, and Carl A. Andersen, Chicago, Ill., assignors to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application July 31, 1951, Serial No. 239,521
5 Claims. (Cl. 213—32)



1. In a combined rubber and friction draft gear, the combination with a friction casing having stop shoulders at opposite sides of the rear end thereof; of friction shoes slidingly telescoped within the casing; spring means within the casing yieldingly opposing inward movement of said shoes; a wedge block in wedging engagement with the shoes; a rear follower having forwardly projecting side arms provided with inturned flanges in shouldered engagement with the stop shoulders of the casing, said arms rearwardly of said flanges being spaced laterally from said casing; a follower plate bearing on the rear end of the casing, said follower plate extending outwardly beyond said casing at opposite sides of the latter; and a rubber cushioning unit interposed between and bearing on said follower plate and the rear follower, said rubber cushioning unit being under initial compression.

2,656,936
SHOCK ABSORBING MECHANISM FOR RAILWAY DRAFT RIGGINGS
Vernon S. Danielson, Chicago, and Richard G. Tillou, Lombard, Ill., assignors to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application July 19, 1952, Serial No. 299,304
5 Claims. (Cl. 213—34)

1. In a combined rubber and friction draft gear, the combination with a friction casing open at its rear end and having stop shoulders at opposite sides of the rear end thereof; of friction shoes slidingly telescoped within the front end of the casing; spring means within the casing yieldingly opposing inward movement of said shoes; a wedge block in wedging engagement with the shoes; a

rear follower member having forwardly projecting side arms provided with inturned flanges in shouldered engagement with the stop shoulders of the casing; an auxiliary follower plate bearing on the rear end of the casing and on the rear end of said spring means, said follower plate having a sliding fit within said rear follower member for holding said rear follower member and follower plate against relative rotation; interengaging locking means on said casing and follower plate for locking said casing and plate against relative rotation; and a rubber cushioning element interposed and reacting between said auxiliary follower plate and rear follower member, said rubber cushioning element being under initial compression to hold said locking means interengaged.

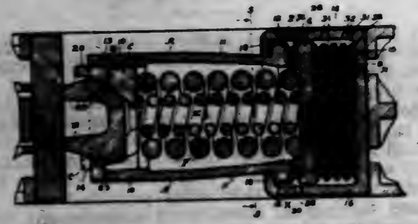


2,656,937

SHOCK ABSORBING MECHANISM FOR RAILWAY DRAFT RIGGINGS

Richard G. Tiller, Lombard, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware

Application August 1, 1952, Serial No. 302,031
6 Claims. (Cl. 213—34)



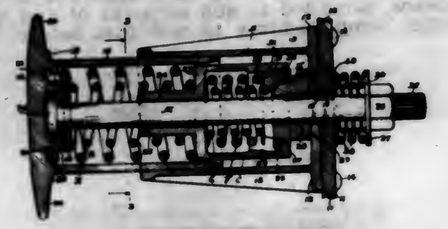
1. In a combined rubber and friction draft gear, the combination with a friction casing open at its rear end and having stop shoulders at opposite sides of the rear end thereof; of friction shoes slidingly telescoped within the front end of the casing; spring means within the casing yieldingly opposing inward movement of said shoes; a wedge block in wedging engagement with the shoes; a rear follower member having forwardly projecting side arms provided with inturned flanges in shouldered engagement with the stop shoulders of the casing; an auxiliary follower plate bearing on the rear end of the casing and on the rear end of said spring means, said follower plate having a sliding fit within said rear follower member for holding said rear follower member and follower plate against relative rotation; aligned key seats at the rear end of the casing and the forward side of said follower plate; a key engaged in said seats for locking said casing and follower plate against relative rotation; and a rubber cushioning element interposed and reacting between said auxiliary follower plate and rear follower member, said rubber cushioning element being under initial compression.

2,656,938

FRICTION BUFFER FOR RAILWAY CARS

George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware

Application October 22, 1949, Serial No. 123,043
2 Claims. (Cl. 213—221)



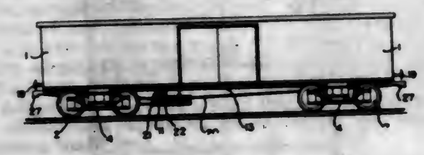
1. In a buffer for railway cars, the combination with a housing secured to the end of a car, said housing being open at its front end and closed at its rear end; of a friction shock absorber within said housing, said shock absorber including a casing having a transverse wall at its front end provided with a centrally disposed, tubular guide boss projecting forwardly from said wall of the casing; a buffer head having a rearwardly extending sleeve portion slidingly telescoped within said housing and over the front end of said casing; laterally spaced bolt anchoring retaining lugs on the inner side of the buffer head, said lugs having inturned flanges thereon; a retaining bolt for said buffer head having a head engaged in back of said flanges, said bolt extending through the tubular guide boss of said casing and held in centered position by said engagement with said casing; and spring means reacting between said buffer head and casing, yieldingly opposing inward movement of said head.

2,656,939

SLACK STABILIZER

Ernest W. Peters, Duluth, Minn.

Application April 19, 1950, Serial No. 156,773
3 Claims. (Cl. 213—223)



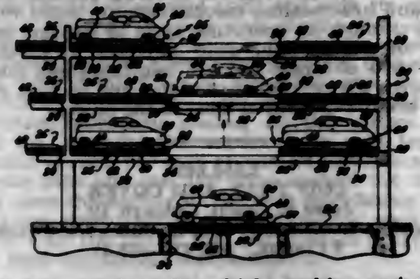
1. A device for controlling the slack between the drawbar connections of railway cars and the like having wheels comprising: a buffer cylinder and piston on the end of each of said cars, a buffer head extending from said cylinder and operated by said piston and being engageable with a cooperative buffer element carried on an adjacent car, an hydraulic pump carried on each of said cars adjacent the wheels thereof and operated by and during the rotation of said wheels, a pressure supply line connecting said pump to said cylinder to operate said piston by hydraulic pressure, pressure control means in said pressure line, and a pressure leak-off mechanism located in said pressure supply line between said pump and said cylinder to permit said pressure to leak off when said pump is not operating.

2,656,940

AUTOMATIC VEHICLE PARKING SYSTEM

Sumner J. Sumners and Hugh W. Fraser, Los Angeles, Calif.

Application December 4, 1948, Serial No. 63,474
6 Claims. (Cl. 214—16.1)



5. In an automatic vehicle parking system, a structure having a receiving floor approximately at street level having provision through which incoming and outgoing vehicles may pass, a plurality of vertically spaced parking floors, a transverse row of elevator shafts, a vertical tier of storage stalls disposed on the various parking floors and on opposite sides of each elevator shaft, an elevator operable within each elevator shaft adapted to be aligned with a pair of the oppositely disposed storage stalls on each parking floor, a vehicle wheel receiving runway mounted on one side of the elevator adapted to receive a set of wheels on one side of a vehicle, a vehicle wheel receiving motor driven endless member mounted on the opposite side of the elevator from the runway adapted to receive the set of wheels on the other side of the vehicle, a vehicle wheel receiving runway mounted on one side of the stall to receive a set of wheels on one side of a vehicle, the runway being adapted to form an extension of the runway on the elevator when the elevator is in registry with the stall, a vehicle wheel receiving motor driven endless member mounted on the opposite side of the stall from the runway adapted to receive the set of wheels on the other side of the vehicle, the endless member being adapted to form an extension of the endless member on the elevator when the elevator is in registry with the stall, pressure switches on the endless member positioned on the elevator, an electric circuit for said motor including said pressure switches, said pressure switches being adapted to close a branch of the electrical circuit when a vehicle is positioned on the elevator and adapted to open a branch of the electrical circuit when a vehicle is removed therefrom and the elevator is empty to disable the endless member, and chocks carried on said motor driven endless members, movable with said endless members and engageable with one of the wheels of the vehicle whereby the successive and cooperative movement of the endless members is transmitted to the vehicle to propel the same on its own wheels from the elevator into a stall and from a stall into the elevator when the elevator is aligned with the stall.

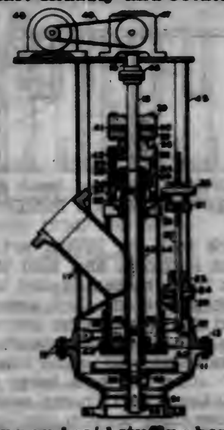
2,656,941

PEBBLE FEEDER

Louis J. Weber, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application October 11, 1948, Serial No. 53,875
1 Claim. (Cl. 214—35)

A pebble feeder comprising in combination a chamber having a vertically disposed inlet conduit secured thereto and projecting into the upper portion thereof, an outlet conduit connected in communication with the lower portion of said chamber, an inverted cup shaped bearing disposed centrally in said inlet conduit and secured thereto, said outlet conduit having an opening in the wall thereof and a stuffing box secured to said outlet conduit disposed around said opening, a vertical shaft slidably and rotatably journaled



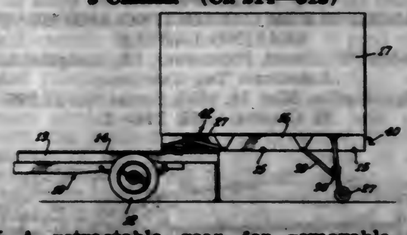
in said bearing and said stuffing box, a horizontally disposed circular table attached to said shaft in said chamber spaced below said inlet conduit and above said stuffing box, a protective sleeve secured to said outlet conduit around said opening and surrounding said shaft extending up into said chamber to a point spaced above said outlet conduit and below said table, means to raise and lower said shaft and table during rotation thereof, and means to rotate said shaft and table.

2,656,942

RETRACTABLE GEAR FOR PORTABLE FREIGHT UNITS

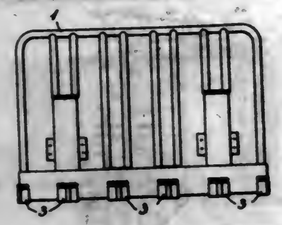
George V. Helms, Los Angeles, Calif.

Application October 2, 1950, Serial No. 187,997
5 Claims. (Cl. 214—515)



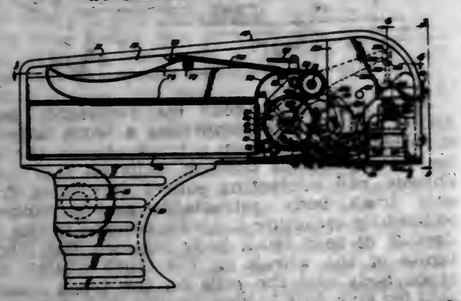
5. A retractable gear for removable truck bodies and the like comprising a truck body removably mounted upon a truck chassis the latter having wheels thereon, rails on said truck chassis, rail contacting rollers depending from said truck body, retractable and expandable jointed leg structure hingedly secured to the underside of said truck body between the lateral limits of the wheels on the truck chassis and truck body and the rails on the truck chassis, said leg structure having ground engaging members thereon for supporting said truck body when the latter is at least partially removed from said truck chassis, and means for expanding and retracting the leg structure, said leg structure in the retracted condition being between the underside of said truck body and lower periphery of the rollers.

2,656,943
FORK FOR ELEVATING TRUCKS
Hans Eric Nilsson, Handel, Sweden, assignor to Aktiebolaget Tegelindustriella Byran, Stockholm, Sweden, a corporation of Sweden
Application March 13, 1950, Serial No. 149,391
In Sweden March 31, 1949
4 Claims. (Cl. 214—655)



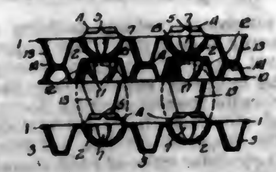
1. In a truck fork for lifting articles stacked on spaced skid supports and also the skid supports; a truck fork frame adapted to be secured to an elevator, and truck fork arms carried by said frame and spaced apart for introduction into the respective channels at opposite sides of a plurality of skid supports; each truck fork arm comprising an upper plate, a lower plate rigidly secured to said truck fork frame, said lower plate being of angular cross-section and having a central leg extending vertically in the direction of said upper plate and terminating short of the underface of said upper plate when said fork arm is unloaded, and means yieldingly supporting said upper plate on and for vertical movement with respect to the lower plate; said supporting means comprising a flexible material wall having a convex surface initially spaced from the adjacent surface of a skid support, said flexible material wall being bowed outwardly into frictional engagement with the skid support by compression of said flexible material wall on lifting of the truck fork to impose a load upon said upper plate and said central leg effecting lifting engagement with the underface of said upper plate.

2,656,944
MACHINE FOR IMPRINTING AND HEAT SEALING LABELS
Robert W. Swett, Flossmoor, Ill., assignor to American Tag Company
Application May 19, 1948, Serial No. 27,995
20 Claims. (Cl. 216—2)



1. A machine for selectively imprinting labels and heat sealing the same to objects comprising, an adjustable printing mechanism for imprinting one at a time only the end label of a strip of labels, feeding mechanism for advancing the strip of labels one at a time through the printing mechanism, a cut-off mechanism adjacent the printing mechanism for severing the imprinted end label from the end of the strip of labels, a heat sealing mechanism adjacent the cut-off mechanism for heat sealing the severed imprinted label to an object placed adjacent thereto, and power operated mechanism for intermittently operating the printing, feeding, cut-off and heat sealing mechanisms in timed relation through an operating cycle to imprint only the end label of the strip of labels, to advance the strip of labels and the imprinted end label, to sever the imprinted end label and to heat seal the severed imprinted label to the object.

2,656,945
EGG TRAY AND COVER
Jesse R. Grant, Chicago, Ill.
Application January 6, 1949, Serial No. 69,590
8 Claims. (Cl. 217—26.5)



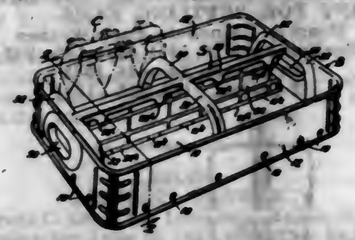
1. Means for encasing eggs in a standard egg case comprising: a tray formed of molded pulp material; egg cups formed in said tray and arranged in six uniformly spaced rows with six uniformly spaced apart cups in each row; each of said cups having a generally circular bottom portion adapted to receive the tip of the small end of an egg, a plurality of bosses rising from said bottom portion and shaped to form a pocket that snugly embraces the egg adjacent to said tip to support the egg upright in the cup, said bosses being uniformly spaced apart and connected together by bands of generally spherical section spaced outwardly from the egg embracing faces of the bosses, feet depending below said cups, posts extending above said pockets, said feet and posts being alternated in rows disposed midway between adjacent rows of cups, ribs extending between said feet and posts and across the tops of the posts and projecting above the tray and posts to stiffen the tray; and means supported on said posts for covering eggs supported in said pockets.

2,656,946
DISH
Houghton W. Clarke, Breaxville, N. Y., assignor of ninety-nine per cent to Mealpack Corporation, Evanston, Ill., a corporation of Illinois
Application June 28, 1947, Serial No. 757,241
3 Claims. (Cl. 220—16)



1. A device for transporting and serving hot meals, which comprises a heat-insulated, hollow body composed of separable sections adapted to be secured together in sealing relation, a dish in the interior of said body facing upwardly and equipped with at least one partition providing a plurality of compartments adapted to receive hot foods, said dish being provided about its upper periphery and on the inside thereof with a shelf in general horizontal alignment with the top of said partition, and a thin, flexible cover lid tightly seated upon said shelf and with its edge portion abutting the side wall of said dish, said lid being formed of fibrous material and having moisture-pervious fiber edges abutting said side wall and forming, when saturated with water moisture, an airtight seal therewith, and a moisture-impervious coating on the bottom of said lid, whereby the vapors from said foods passing around the edge of said lid saturate said fibrous edge and seal the same against the dish and upon the cooling of the food said flexing lid is drawn down tightly into self-sealing engagement with the top of said partition to separate the food-containing compartments.

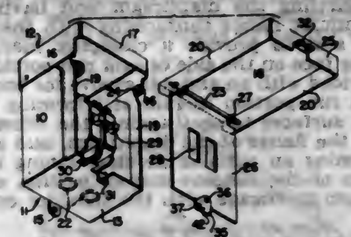
2,656,947
BOTTLE CARTON CARRIER AND UNIT FOR USE THEREIN
Ralph W. Stevenson, Grand Rapids, Mich., assignor, by mesne assignments, to Metal Carrier Corporation, Grand Rapids, Mich., a corporation of Michigan
Application September 26, 1949, Serial No. 118,234
5 Claims. (Cl. 220—21)



5. A non-tearing unit to convert to a bottle carton carrier a bottle carrier of the type having sides and a bottom and a separator rockably anchored to said bottom and having an upper marginal bead, said unit comprising a carton spacer including a central longitudinal rib having a longitudinal groove in the underside thereof adapted to receive said bead to anchor said spacer relative to said bottom and longitudinally spaced laterally extending legs for engagement with the bottom of said basket to define bottle pockets and hold said separator upright, at least 2 of said legs extending in opposite directions from an intermediate point on said rib at the level of the top portion of said spacer for the major portion of the distance from said spacer to the sides of said bottle carrier when said unit is pushed therein to provide at least 2 carton pockets on each side of said separator said spacer having depending flanges adjacent said separator and extending below the upper margins of the bottle cartons to prevent catching thereon.

2,656,948
WEATHERPROOF ENCLOSURE FOR ELECTRICAL DEVICES
Richard R. McGee, New Britain, Conn., assignor, by mesne assignments, to General Electric Company, a corporation of New York
Application March 31, 1949, Serial No. 84,982
3 Claims. (Cl. 220—22)

1. A receptacle for an electrical device comprising a box body open at the front and having a top with flanges overlapping the sides of the body, a shaft supported by the sides of the body between the top flanges, a shield plate hinged to said shaft and having an opening for



access to a device within the body and a cover hinged to said shaft beneath the top flange, said shaft with attached shield plate and said cover being removable from the body.

2,656,949
LINED CONTAINER AND WELDED JOINT THEREIN
Glenn W. Leupold, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application December 5, 1949, Serial No. 131,144
1 Claim. (Cl. 220—64)



In a corrosion resistant metallic structure having a fusion weld deposit therein, a carbon steel body having a surface subject to corrosion when unprotected, a body having a corrosion resistant alloy steel surface adjacent said carbon steel surface, a fusion weld deposit between said bodies and presenting a surface zone of substantial width between said surfaces in which there is a gradation of alloy content providing a gradual change in the coefficient of thermal expansion from that of said carbon steel surface to that of said alloy steel surface, and a protective coating of vitreous enamel fused and bonded to said carbon steel surface and extending for at least a substantial distance across said surface zone of said weld deposit, the gradation in coefficient of thermal expansion of the surface zone covered by said vitreous enamel serving to prevent injury to the enamel from thermal expansion differentials, and the alloy content of the exposed surface metal adjacent the edge of said coating being sufficient to substantially resist corrosion without further protection.

2,656,950
SAFETY PRESSURE DEVICE
Robert S. Coffman, Kansas City, Mo., assignor to Black, Sivalls & Bryson, Inc., Kansas City, Mo., a corporation of Delaware
Application August 23, 1950, Serial No. 180,937
2 Claims. (Cl. 220—89)

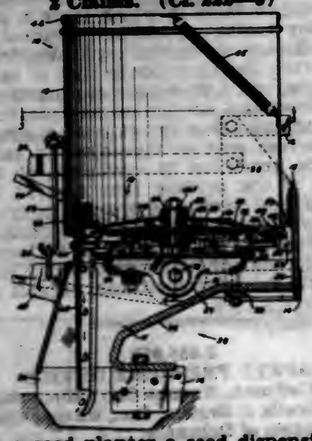
2. A safety device including a clamping member having an annular beveled seat forming a clamping face encircling a flow opening in said member, a concavo-convex frangible diaphragm covering the flow opening and having an outwardly flaring annular flange substantially conforming to the clamping face and having a rim portion reversely turned into contact with the

outer face side of said flange and forming an annular shoulder intermediate the width of said flange and offset annular surfaces, a clamping ring encircling the diaphragm and having an inner annular flange conforming with the bevel of said seat to provide a clamping face, said clamping face on the side of said rim portion being provided with an annular groove for containing said rim portion therein and forming offset annular surfaces to seat against the offset surfaces of the flange of the diaphragm, said groove also forming an annular shoulder facing in the direction of the concavo-convex portion of the diaphragm to engage with the shoulder on said



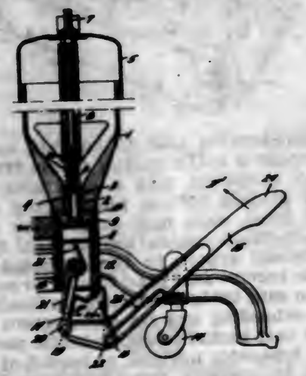
diaphragm flange, and fastening means interconnecting the clamping members for maintaining clamping contact of said offset surfaces and said reversely turned rim portion pressed against the flange of the diaphragm, said concavo-convex portion of the diaphragm having radial grooves intersecting each other at the apex of said concavo-convex portion and having arcuate grooves extending transversely of the radial grooves and concentrically with the reversely turned rim with ends of the arcuate grooves spaced apart to maintain attachment of the portions of the diaphragm contained between the radial grooves when the diaphragm fractures along said grooves.

2,656,951
PLANTER UNIT
John T. Murphy, Brownsville, Tenn., assignor to Harry Ferguson, Inc., Detroit, Mich., a corporation of Delaware
Application March 19, 1948, Serial No. 15,929
2 Claims. (Cl. 222—9)



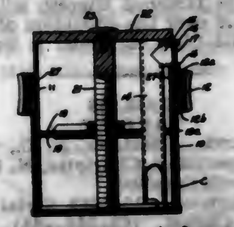
1. In a seed planter a seed dispensing assembly comprising, in combination, a rotary mechanism for dispensing seed in timed relation to translatory movement of the planter, a seed hopper pivotally mounted adjacent said mechanism for vertical swinging movement between an operative seed supplying position overlying said mechanism and an inoperative position vertically removed from said mechanism for rendering access thereto; said mechanism including a generally horizontal ring-like false plate having a seed discharge port therein; a seed dispensing annulus slidably disposed in overlying relation to said false plate, and a driving pinion rotatably mounted about an axis spaced from said false plate, a driving head concentric with said false plate and rotatably mounted about a generally vertical axis, gear teeth on said head meshing with said pinion, upwardly accessible central guide means on said head concentric with the axis thereof, driving lugs on said head, driving lugs on said seed dispensing annulus, a transverse support member mounted in the lower end of said hopper and movable therewith, journaling means on said support member concentric with the rotary axis of said head, an intermediate driving member rotatably mounted on said journaling means and having first driving lugs thereon complementary to said head lugs and second driving lugs thereon complementary to said seed annulus lugs, and said intermediate member having central guide means on the lower side thereof concentric with said journal means and axially engageable with said driving head guide means to center said intermediate member and said hopper with said driving head.

2,656,952
LUBRICATING APPARATUS OPERATING THROUGH SHAKING OF THE LUBRICANT FOR SETTLING SAME
Henri A. Chinchole, Paris, France
Application April 30, 1951, Serial No. 223,672
In Canada June 15, 1949
12 Claims. (Cl. 222—161)



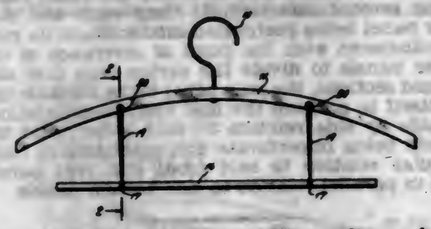
1. In a dispenser for semi-solid materials such as lubricating greases and the like, a support, a reservoir for containing a supply of such material, said reservoir being movable with respect to said support, an ejector pump chamber in the reservoir, an anvil carried by said support exteriorly of said reservoir, said reservoir being normally urged toward said anvil, means for moving said reservoir away from said anvil against said urging during the ejection action of said pump and for releasing the reservoir to recoil under said urging so that it strikes said anvil, whereby the resulting jarring serves to pack the material into the pump chamber without voids or cavities; said means comprising a reservoir contacting member, means for moving said member in the direction to move the reservoir away from said anvil, means adapted to be tripped when said member has moved in said direction a predetermined distance to release said member from the influence of said moving means and permit the reservoir to recoil toward said anvil.

2,656,953
DISPENSING DEVICE
John W. Rich, Los Angeles, Calif.
Application June 25, 1951, Serial No. 233,200
1 Claim. (Cl. 222—390)



A dispensing attachment for open top cans containing viscous matter, comprising a cylindrical sleeve having a lower portion adapted to be telescoped within a can, a circumferential shoulder on the outer side of said sleeve adapted to engage a can edge and gauge depth of insertion of the sleeve therein, a split clamping band straddling said shoulder and providing arcuate arms adapted to be clamped to a can in encircling relation thereto, said sleeve being formed with an outlet aperture in its portion above said shoulder, an outlet tube leading from said outlet to the lower end of said sleeve and having a straight portion in spaced relation thereto, a central threaded post fixed to the cover and extending downward within the sleeve in parallel relation to said straight tube position, a piston threaded on said post and formed with an aperture slidably engaging the straight tube portion, and means for rotating the cover and post to effect axial movement of the piston.

2,656,954
GARMENT HANGER
Harold C. Cook, Sr., Long Island City, N. Y.
Application June 19, 1948, Serial No. 33,966
17 Claims. (Cl. 223—96)



1. A garment hanger including a bar, a hook support therefor, said bar having T-shaped slots in the underside thereof, spring coils seated in the slots having projecting crossed arms, and rods pierced laterally and biased against each other by the said arms.

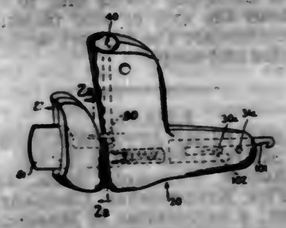
2,656,955
SHOULDER SUPPORT FOR GARMENT HANGERS
Pearl M. Harrell, Santa Ana, Calif.
Application November 28, 1949, Serial No. 129,923
2 Claims. (Cl. 223—96)

1. A garment-shoulder support adaptable for garment hangers which are formed with a bottom bar, diagonal upper bars, and rounded end portions connecting the upper bars with the bottom one; comprising a frame formed by a pair of parallel wires mounted side by side over and following the course of each upper bar, a garment-shoulder supporting unit slidably adjustable along each frame, and said wires being gathered before their outer ends with a welded joint and continued as elongated loops, each loop forming a receptacle for the corresponding one of said rounded end portions by seating the bar



portions leading thereto, said unit being a plate laid over the wires, a slide block between the latter, a retainer plate spanning the wires underneath, and a stud from the plate through the block and retainer plate to join the three together.

2,656,956
NEEDLE THREADER
Julian Seth Kahn, New York, N. Y.
Application July 27, 1949, Serial No. 107,822
13 Claims. (Cl. 223—99)



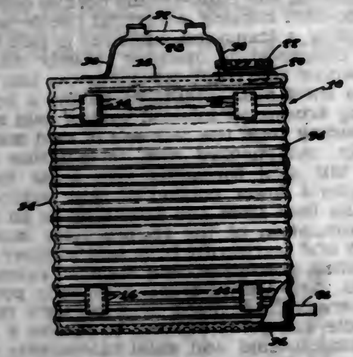
1. A needle threader adapted to accommodate all commercial size hand-sewing needles comprising a two-part housing, a vertical needle-well in said housing, a transverse guideway in said housing, a reciprocating member closely slidably housed within said transverse guideway and comprising a sheet metal stamping having a hooked threading arm as an integral part of said member extending from the rear end of said member forwardly, said hooked arm terminating in a pointed bill, said threading arm being spaced apart from a lower portion of said member, a leaf spring bent from and extending as an integral continuation of the reciprocating member upwardly and rearwardly from said member with an actuating portion of said member extending forwardly, outwardly beyond said body portion to be operatively engaged by a person's finger, said needle-well being adapted to receive a needle for longitudinal and axial movements only until its eye lies in the path of said hooked threading arm, a notched throat in said body to receive a thread to be engaged by said hook of the threading arm for drawing it through the eye of a needle disposed in said well, said spring being adapted to be flexed when the reciprocating member is being moved rearwardly and adapted to straighten out to pass the hook of the threading arm through the eye of said needle as the reciprocating member moves forwardly under the influence of the spring, and cooperating members on the reciprocating member and on the housing for clamping the loop of a thread stationary when said member reaches its inward limit of movement immediately after the hooked threading arm is withdrawn from the needle after threading the latter.

2,656,957
SUPPORT FOR MANIKINS
Erich Bloch, New York, N. Y.
Application February 3, 1951, Serial No. 209,259
5 Claims. (Cl. 223—120)



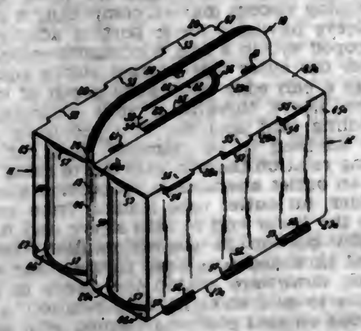
1. A support device for a display figure having lower portions simulating human legs and feet and fitted with shoes, comprising a base plate adapted to extend along the underside of a shoe, a pair of clamping hooks rigid with said base plate and adapted to straddle the projecting lip of the sole of the shoe on one side thereof, a second pair of clamping hooks secured together as a unit and adapted to straddle the projecting lip of the shoe on the opposite side thereof, said base plate having an elongated slot extending in a direction transverse to a line joining the clamping hooks of said first pair, and a member for fastening said clamping hook unit and passing through said slot to permit said unit to slide adjustably along said base plate towards and away from said first pair of clamping hooks and to rotate adjustably about the axis of said fastening member, to accommodate the support device to shoes of varying size and shape.

2,656,958
PORTABLE PUMP APPARATUS OF THE SHOULDER PACK TYPE
Ralph W. Austin, Weymouth, Mass., assignor to Badger Fire Extinguisher Company, Somerville, Mass., a corporation of Massachusetts
Application February 18, 1950, Serial No. 145,014
1 Claim. (Cl. 224—5)



A container for a portable pump apparatus of the shoulder pack type comprising a resiliently flexible and hollow body portion having substantially rectangular top, bottom and four side walls, the top and bottom walls being provided with metal reenforcing plates therein to preserve the substantially rectangular shape of the container when it is filled with liquid, the four intervening side walls being readily flexible and provided with a series of transversely extended corrugations formed thereacross generally parallel to said top and bottom walls and with their crest portions extending outwardly at least as far as the boundaries of said top and bottom walls whereby said crests engage the wearer's back and support said container therefrom, the flexible side wall adapted to contact the wearer's back being concave for flexible conformity to the wearer's back, the concave portion thereof being of a width equal to the width of an average man's shoulders and said back contacting flexible side wall provided with shoulder-strap clips spaced thereon such that shoulder straps fastened thereto will rest comfortably on and over the shoulders of the wearer when the liquid-filled container is worn.

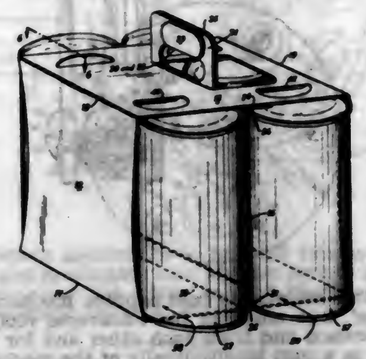
2,656,959
CARRIER
Grover C. Currie, Charlotte, N. C., assignor to Dacam Corporation, Charlotte, N. C., a corporation of North Carolina
Application September 15, 1950, Serial No. 185,072
5 Claims. (Cl. 224—45)



1. A carrier having a bottom panel, a front panel hingedly connected to one edge of the bottom panel, a rear panel hingedly connected to the other edge of the bottom panel and having a handle portion hingedly connected thereto, a top panel hingedly connected to the front panel and having a handle portion hingedly connected thereto, means securing the handle portion of the top panel to the handle portion of the rear panel, said bottom and top panels and the front panel being severed intermediate their ends and said rear panel being perforated intermediate its ends in alinement with the point of severance of the other panels to divide the carton into first and second sections, the rear panel being foldable upon itself to position the first and second sections in side by side relation to each other, said top panels being imperforate and extending in right angular relation to said front and rear panels and in parallel relation to said bottom panels.

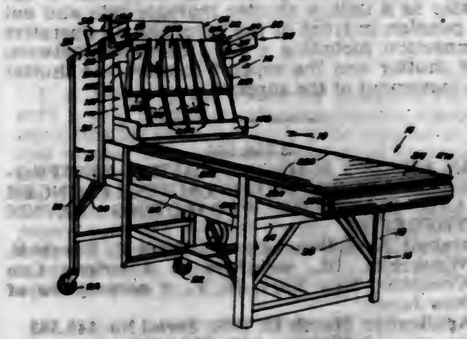
2,656,960
CAN CARRIER
Herman A. Carruth, Northford, Conn., assignor to National Folding Box Company, Inc., New Haven, Conn., a corporation of Connecticut
Application December 4, 1950, Serial No. 199,695
6 Claims. (Cl. 224—45)

1. A collapsible carrier of foldable sheet material for a plurality of chime-end cans arranged in two rows, the carrier comprising, two bottom panels articulated to each other along a bottom center hinge line; two wall panels articulated to the bottom panels along bottom side fold lines; a one-piece top panel articulated to said wall panels along top side fold lines; a center panel articulated to said bottom panels along said bottom center hinge line and articulated to said top panel along a top center hinge line; a handle articulated to said top panel at said top center hinge line, said handle being narrower than said top panel and having two thicknesses, one thickness being integral with, and an extension of, said center panel, said one thickness extending through said top panel; the other thickness being cut from the stock of said top panel, the cut-out stock leaving an aperture in said top panel through which said one thickness projects, the handle being foldable into said aperture into a position substantially flat with respect to said top panel; a flap integral with,



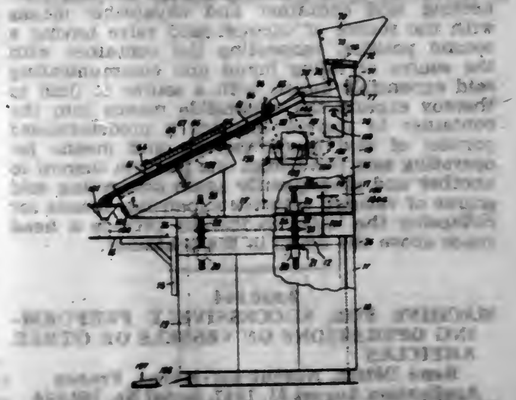
and articulated to, said center panel on either side of said handle, making a total of two flaps on the center panel, said flaps being secured to the underside of said top panel; and means for retaining cans in the carrier, said means including a plurality of hinged tabs inwardly foldable upon the panels to which they are hinged, said tabs having edges adapted to engage edgewise against the inner surfaces of the chimes of at least some of the cans.

2,656,961
ICE-CREAM BAR BAGGING MACHINE
Kenneth A. Bevington, Evanston, Ill.
Application August 17, 1948, Serial No. 44,675
22 Claims. (Cl. 226—2)



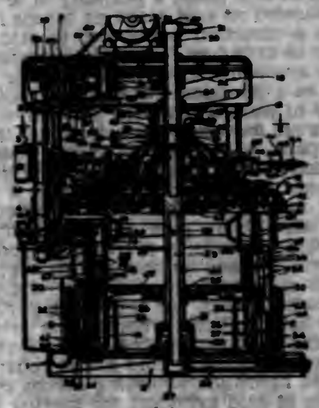
2. In a bagging machine, the combination comprising, a frame, a feed hopper slidably mounted on said frame, a bottom panel in said hopper, said panel being slidable with respect to said frame and said hopper, friction means intercooperating between said hopper and panel operable to slide said panel in response to sliding of said hopper, means limiting the sliding movement of said panel to a range less than the range of sliding movement of said hopper, and a chute leading from within the range of movement of said hopper to a bagging zone.

2,656,962
RECEPTACLE FILLING MACHINE
George H. Daniels, Westfield, N. J.
Application October 8, 1949, Serial No. 120,371
28 Claims. (Cl. 226—2)



1. An article handling machine comprising an inclined floor, means arranged to form a series of inclined side-by-side raceways on said floor, means for supplying a row of articles to each of said raceways, upper and lower transverse rows of floor openings spaced longitudinally in said raceways, upper and lower transverse rows of stop pins arranged for reciprocation in said upper and lower rows of floor openings respectively, means for alternately raising and lowering said upper and lower rows of stop pins to periodically segregate and discharge a predetermined number of articles from all of said raceways substantially simultaneously, control means for automatically stopping said stop pin raising and lowering means after a variable number of complete operating cycles, and means for manually setting the number of operating cycles to be completed.

2,656,963
FILLING MACHINE
Frank W. Krueger, San Jose, Calif., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application September 16, 1947, Serial No. 774,213
15 Claims. (Cl. 226—71)



1. In a container filling machine, means for providing headspace in containers being filled with liquid comprising a source of vacuum, a source of fluid and a source of filling liquid, a

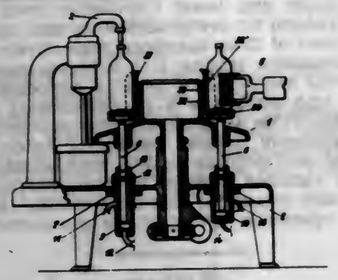
filling valve comprising a container engaging seal, said valve having a plurality of operated conditions expansible means associated with said seal for expansion into a container engaged thereby, said valve having a first position connecting said container and expansible means with the source of vacuum said valve having a second position connecting the container with the source of filling liquid and communicating said expansible means with a source of fluid to thereby expand the expansible means into the container to thereby displace a predetermined portion of said liquid therein, and means for operating said valve from one position thereof to another and subsequently again connecting said source of vacuum with the expansible means for collapsing the latter to thereby provide a head space above the liquid in the container.

2,656,964

MACHINE FOR SUCCESSIVELY PERFORMING OPERATIONS ON VESSELS OR OTHER ARTICLES

René Détrez, Nogent-sur-Marne, France

Application August 21, 1947, Serial No. 769,844
In France August 25, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires August 25, 1965
9 Claims. (Cl. 226—75)



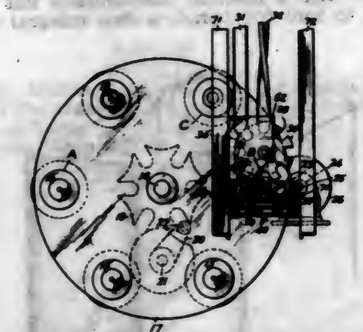
1. A machine for processing articles comprising, in combination, conveyer means for carrying to a plurality of consecutive stations arranged along a predetermined path a plurality of articles arranged on the said conveyer means in the direction of said path; a plurality of article supports mounted on said conveyer means for movement in a direction transverse to said path; a plurality of cylinders respectively located at said stations and being mounted with their axes extending in a direction transverse to said path; a plurality of pistons mounted respectively in said cylinders for movement in a direction transverse to said path; a plurality of piston rods respectively connected to said pistons on the side thereof adjacent to said article supports; a plurality of head members respectively mounted on the ends of said piston rods which are adjacent to said article supports; a plurality of hook means respectively located on said article supports adjacent to said head members for engaging the head members when the article supports are located at said stations, whereby the article supports, when they are located at said stations, are positively connected to said piston rods; and independent hydraulic actuating means connected with each of said cylinders for moving said pistons to different extents and at different rates so that articles on said article supports are also moved to different extents and at different rates at the respective stations.

2,656,965

COLLAPSIBLE TUBE CAPPING MECHANISM

Harry A. Drew, West New York, N. J., assignor to Victor Industries Corporation, Brooklyn, N. Y., a corporation of New York

Application May 29, 1951, Serial No. 228,329
19 Claims. (Cl. 226—88)



1. In a collapsible tube capping mechanism, a pair of jaws mounted for transverse reciprocation toward and from each other and for movement as a unit longitudinally of the mechanism, a rack on each jaw, a pair of spaced apart pinions each meshing with one of said racks, a pair of pinion shafts carrying the respective pinions, a pair of meshing gears one on each shaft, a reciprocable front plate carrying the jaws, pinions, shafts and gears, means slidably supporting the plate for movement longitudinally of the mechanism, a reciprocable jaw operating rod, an adjustable operative connection between the rod and one of the gears whereby forward longitudinal movement of the rod effects rotary movement of the gears and corresponding closing movement of the jaws, a support slidably supporting the rod, a longitudinally slidable rear plate secured to the support and slidable therewith, friction means normally resisting movement of the rear plate, a yieldable connection between the front and rear plates permitting relative movement of the plates and also permitting movement of the plates as a unit, a shutter movable into and out of position in front of the jaws, and an operative connection including a cam interposed between the shutter and the support to move the shutter on movement of the support.

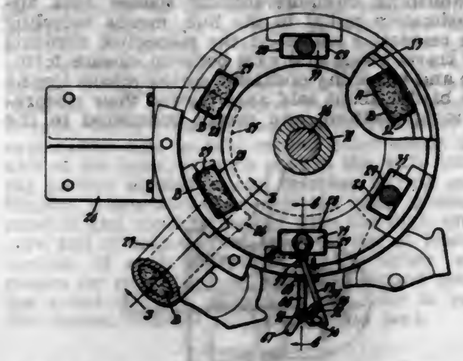
2,656,966

CAN FILLING MACHINE HAVING RECIPROCATING PRODUCT CONTACTING PLUNGER AND MOISTURE PROJECTING DEVICE THEREFOR

Marshall J. McDonough and Estill E. Burchett, Waukegan, Ill., assignors to American Can Company, New York, N. Y., a corporation of New Jersey

Application March 13, 1950, Serial No. 149,382
5 Claims. (Cl. 226—97)

5. In a machine for packing meat or other sticky products into a container, the combination of a table having a flat surface, a conveyor having a flat surface moving over said table surface in sliding contact therewith, a tubular chamber formed in said conveyor and open at said conveyor surface, a reciprocating product packing plunger in said chamber, a small moisture projecting orifice in said table surface, means for projecting moisture from said orifice against the product contacting face of the plunger, and valve means for stopping said projection of moisture while said flat surface of the conveyor passes over said orifice and to release the moisture for projection only while said plunger face passes over the orifice, thus preventing



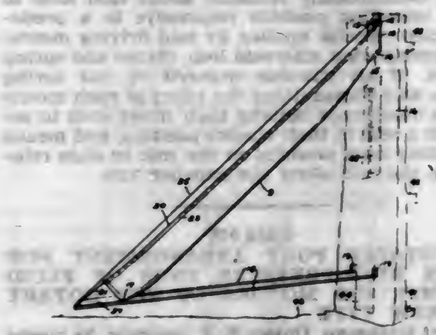
deleterious moistening of said flat conveyor surface and moistening said plunger face to prevent adherence of the sticky product thereto during a subsequent packing operation.

2,656,967

FIRE ESCAPE DEVICE

Lewis A. Eastman, Wyandotte, Mich.

Application August 30, 1950, Serial No. 182,338
6 Claims. (Cl. 227—39)



1. A device of the character described for use with a wall having an opening therein, comprising a flexible chute adapted to be secured at one end to said wall, a boom secured at one end to said flexible chute and adapted to be pivoted at the other end to said wall, and a plate like member positioned on the free end of said boom adjacent one end of said chute, said plate being adapted to serve as a landing platform when the boom is down and a closure for the said wall opening when the boom is elevated.

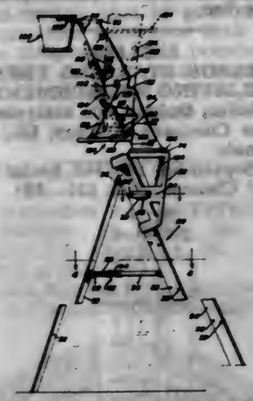
2,656,968

ORCHARD LADDER WITH ADJUSTABLE PLATFORM AND FRUIT RECEIVING MEANS

Hubert Tidwell, Wellington, Utah

Application November 26, 1951, Serial No. 258,110
17 Claims. (Cl. 228—1)

1. For use in enabling one to ascend to a given height above the ground and to then have changeable access to variously located fruit on a fruit tree; a portable apparatus comprising, in combination, a self-standing orchard ladder, platform means above said ladder, and complemental means adjustably connecting the platform means to the ladder in a manner permitting said platform means to be rotatably swung in a horizontal plane about a vertical axis, whereby to permit said platform means to be



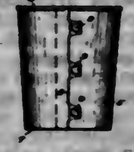
selectively stationed in predetermined positions of a circular path of movement and to give the user a wide range of support without shifting the position of the ladder relative to the ground, said complemental means embodying, as a component thereof, a receiver in which to gather fruit picked from the tree.

2,656,969

FRUSTO-CONICAL CONTAINER

John D. Kvasnek and Eunyce M. Kvasnek, North Miami, and Alvin R. Cutler, Miami, Fla.

Application July 26, 1950, Serial No. 176,044
1 Claim. (Cl. 229—21)



An inverted frusto-conical receptacle adapted to be formed from a flat blank strip of material that is arcuate in top plan, the top edge of the strip folded outwardly upon itself and the bottom edge of the strip folded inwardly upon itself, one end of the strip provided with a plurality of spaced apart slots identical in length and in alignment with each other, the slots being spaced inwardly from the end of the strip, a plurality of companion slots of shorter length spaced inwardly from the first named slots and parallel therewith, the opposite end of the strip provided with a plurality of tongues tapered outwardly from the strip and having their terminal ends rounded, the first named slots having a length corresponding to the greatest width of the tongues and the second named slots having a length equal to the width of the tongues intermediate their length, the tongues being equal in number and spacing to the pairs of slots, the strip adapted to be rolled to cause its ends to overlap, the tongues adapted to be threaded through the slots during the overlapping of the strip ends with the terminal ends of the tongues projecting beyond the shorter slots at complete forming of the receptacle, the terminal ends of the tongues then being folded upon themselves, a circular bottom for the receptacle of flat disc form having an upstanding annular and out-

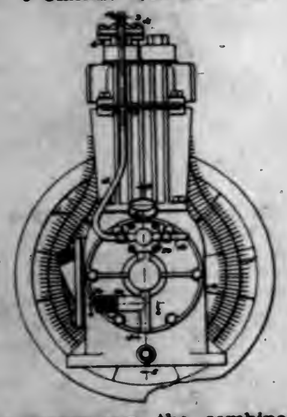
wardly inclined wall corresponding to the angularity of the receptacle wall, the bottom at assembly being positioned within the lower end of the receptacle with its bottom resting upon the folded edge of the strip and its inclined wall engaging the wall of the receptacle and a drain opening formed in the disc.

2,656,970

COMPRESSOR STARTING PRESSURE RELIEVING ATTACHMENT

George F. Pfeifer, Quincy, Ill., assignor to Quincy Compressor Company, Quincy, Ill., a corporation of Illinois

Application September 16, 1949, Serial No. 116,150
9 Claims. (Cl. 230—29)



1. In a compressor, the combination which comprises a compressor block having a cylinder therein, a crank shaft journaled in said block, a piston in said cylinder connected by a connecting rod to said crank shaft, said crank shaft having a cylindrical extension providing a counterbalancing weight thereon and said cylindrical extension having a cylinder with a valve seat in the outer end thereof therein, a valve in said cylindrical extension positioned to coact with said valve seat upon rotation of said crank shaft, means resiliently urging said valve away from said valve seat, a lubricating pump actuated by said crank shaft, an intake valve in the cylinder of the compressor block, a compressed air connection extended from said intake valve for retaining said intake valve in an open position in which said compressor is unloaded by compressed air from said connection, a control valve in said compressed air connection, and means applying pressure from said lubricating pump to said control valve for retaining said control valve in the position of closing the compressed air connection, the valve in said cylindrical extension of the crank shaft positioned to remain in the open position to relieve pressure on said control valve with the crank shaft turning slowly and adapted to be closed by centrifugal force to apply pressure of the lubricating pump to said control valve to close the compressed air connection whereby the intake valve of the compressor cylinder is relieved and the valve is adapted to close to permit the compressor to function.

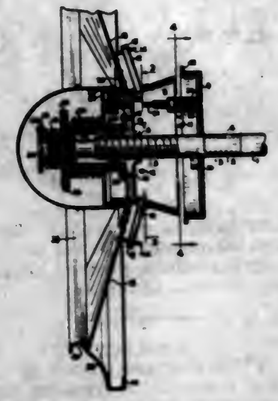
2,656,971

COMBINED FLUID IMPELLER AND SELF-SEALING CLOSURE

Emil A. Mader, Detroit, Mich., assignor of one-half to John Sparge, Detroit, Mich.

Application March 22, 1950, Serial No. 151,250
15 Claims. (Cl. 230—114)

2. In a combined impeller and closure of the type comprising a hub, a set of impeller blades outwardly extending from the hub, elements carried by the hub in a circumferentially spaced and approximately radial relation to the hub and establishing circumferentially spaced axes approximately radial to the hub, means swiveling the respective blades on the respective elements for travel about said axes between closure-forming and impelling positions, spring means urging the blades about said axes toward their closure-forming position, and means connected to the



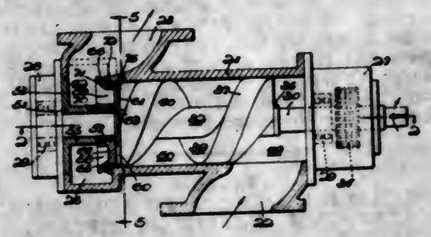
hub for rotatively driving the impeller, the blades being centrifugally actuable about said axes to their impelling position responsive to a predetermined velocity applied by said driving means, the combination with said hub, blades and spring means, of an annulus engaged by the spring means and transmitting the effort of such means to the blades and lapping their inner ends to establish a seal in their closure position, and means mounting such annulus on the hub to slide relative to the hub along the impeller axis.

2,656,972

ADJUSTABLE PORT ARRANGEMENT FOR THE HIGH-PRESSURE ENDS OF FLUID PUMPS AND MOTORS OF THE ROTARY SCREW TYPE

Gilbert Rathman, Union, N. J., assignor, by mesne assignments, to Dresser Industries, Inc., a corporation of Pennsylvania

Application January 31, 1949, Serial No. 73,784
17 Claims. (Cl. 230—138)



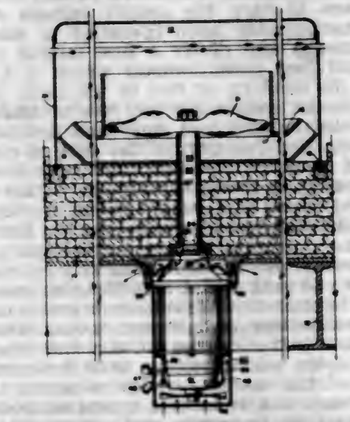
1. In a rotary screw type pump or motor embodying a pair of helically ribbed rotors adapted to rotate in intermeshed relation in a casing continuously open at one end to a conduit in which a relatively low fluid pressure prevails and having restricted communciation at the other end with a conduit wherein a higher fluid pressure exists, means for controlling communication between the high pressure conduit and the high pressure end of the fluid compression or expansion space defined by the rotor ribs and the casing comprising a member normally fixed with respect to said casing forming an imperforate wall perpendicular to the axis of said rotors which prevents direct flow of fluid between the high pressure end of one of said rotors and the high wall-forming portion complementary to the wall formed by said first member and facing the high pressure end of the second rotor, said second member being rotatably adjustable relatively to said casing and to said second rotor about the axis of the later, a single port in the wall-forming portion of said second member having continuous communication with the high pressure conduit and communicating with the high pressure end of said second rotor during at least a portion of each revolution of the latter, and means for rotatably adjusting said second member about the axis of said second rotor to vary the circumferential position of said port.

2,656,973

ELECTRIC MOTOR FOR DRIVING A DEVICE WITHIN A COMPARTMENT

Charles R. Sutherland, Cleveland, Ohio, assignor to The Reliance Electric & Engineering Company, a corporation of Ohio

Application June 9, 1949, Serial No. 98,017
7 Claims. (Cl. 230—209)



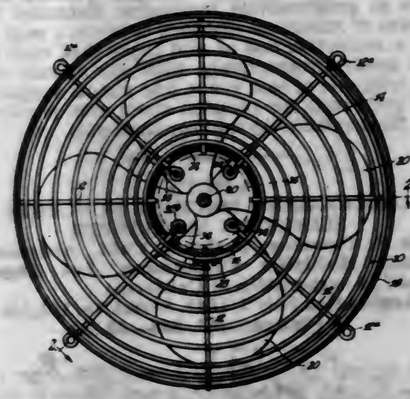
1. A bearing housing for a shaft for driving a device within a compartment adapted to have a differential fluid pressure between said compartment and said housing, said compartment having a wall provided with a hole extending therethrough and an annular external surface surrounding the hole, said shaft adapted to extend through said hole for driving said device within said compartment, said housing including first and second end portions with said first end portion provided with a shaft opening through which said shaft extends, a bearing for said shaft in said shaft opening, said end portion having an annular engagement surface surrounding said shaft opening, means for securing said annular engagement surface of said end portion to said annular external surface on said wall and thereby connecting said bearing housing in communication with said compartment through said bearing, said second end portion of said bearing housing being sealed to blank communication between atmosphere and said compartment, a liquid reservoir carried below said bearing housing, means for circulating a liquid from said reservoir through said bearing, fluid by-pass means having two ends and interconnecting said first and second end portions of said bearing housing and providing fluid communication around said bearing, both ends of said fluid by-pass means lying above the level of the liquid in said liquid reservoir to thus prevent passage of liquid through said by-pass means, said by-pass means having less communication resistance than that of said bearing, the differential fluid pressure causing a slight fluid flow between said housing and said compartment through said by-pass means rather than through said bearing so as not to disturb said circulating liquid.

2,656,974

WINDOW FAN SUPPORT

Alvin W. Holstein, St. Louis, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware

Application July 18, 1952, Serial No. 299,685
5 Claims. (Cl. 230—259)



1. A support arrangement for an electric fan comprising in combination; a guard screen defining an axis and having a central motor-receiving opening, the screen further having radially directed ribs with axially extending portions at the margin of said opening; a sleeve encircling the axially extending portions of said ribs; elastic members interposed between the sleeve and said axial portions of said ribs, the centers of the elastic members defining a plane perpendicular to said axis; axially extending brackets secured to said sleeve and at their free ends extending radially inwardly to define motor-supporting elements; a motor secured to said elements and within the confines of said opening; a fan blade on said motor and within the confines of the guard, the center of gravity of the blade and motor being in substantially the same plane as said plane defined by the elastic members.

2,656,975

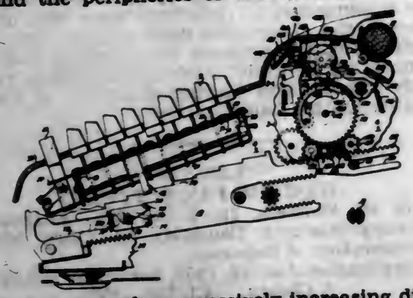
DIFFERENTIAL ACTUATOR MOTION TRANSMISSION MEANS

Robert E. Boyden, Los Angeles, Calif., assignor to Clary Multiplier Corporation, San Gabriel, Calif., a corporation of California

Original application March 13, 1945, Serial No. 582,553. Divided and this application September 17, 1949, Serial No. 116,253
3 Claims. (Cl. 235—60.27)

1. In a calculating machine, the combination of a plurality of independently reciprocatable rectilinearly movable racks arranged side by side, means supporting said racks for rectilinear move-

ment, a plurality of gears of equal diameters arranged side by side, means supporting said gears for independent rotation about a common axis, said gears being spaced apart distances different than the spacings between said racks, and a plurality of gear units displaced relative to each other around the peripheries of said gears, said gear



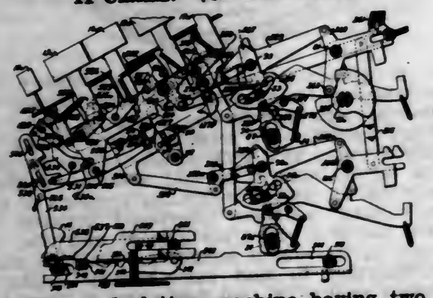
units having such progressively increasing diameters at progressively increasing distances from a point of minimum distance between a said gear and a respective one of said racks that each gear unit meshes respectively, with one of said racks and with one of said gears, and means supporting said gear units for rotation about axes parallel to and fixed relative to said common axis.

2,656,976

CALCULATING MACHINE FUNCTION SELECTION MECHANISM

Valia S. Golemon, Burbank, Calif., assignor to Clary Multiplier Corporation, Los Angeles, Calif., a corporation of California

Application July 7, 1949, Serial No. 103,468
11 Claims. (Cl. 235—60.31)



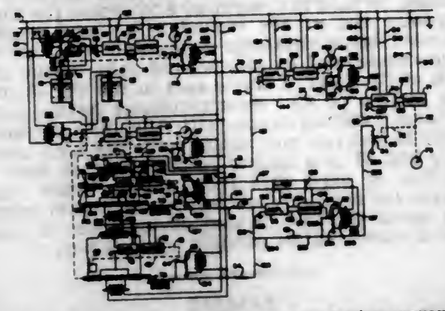
1. In a calculating machine having two accumulators and differential actuators therefor; the combination comprising an actuating element movable in a predetermined direction, means for operatively connecting one of said accumulators to said actuators including a control element movable in said predetermined direction; means for operatively connecting the other of said accumulators to said actuators including a second control element movable in said predetermined direction; each of said control elements having a surface arranged to be actuated by said actuating element during movement of said actuating element in said predetermined direction to cause operative connection of its respective accumulator to said actuators, selectively settable means for setting said actuating element transversely of said direction into any of different paths in line with the surfaces of both of said elements or out of line with the surface of either of said elements, and means other than said last-mentioned means for moving said actuating element through a selected one of said paths.

2,656,977

FUEL DURATION COMPUTER

Kimball C. Cummings, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application April 1, 1950, Serial No. 153,421
14 Claims. (Cl. 235—61)



1. Fuel duration indicator apparatus comprising, in combination: first bridge means having as one arm thereof a sensing element the signal from which varies with the quantity of fuel in a tank; first motor means; means connecting said first motor means to said first bridge means to control the operation of said first motor means; a first potentiometer connected to said first motor means to vary the output voltage of said first potentiometer upon operation of said first motor means and derive a first output voltage from said first potentiometer which is a function of the quantity of fuel in the tank; second bridge means measuring the rate of change of the fuel in the tank and deriving a second voltage which is a function of the rate of change; a second potentiometer connected to said second bridge means to cause the second voltage to be impressed across said second potentiometer; signal amplification means comparing the first voltage with a portion of the second voltage; second motor means; means connecting said second motor means to said signal amplification means to control the operation of said second motor means; means connecting said second motor means to said second potentiometer to vary the compared portion of the second voltage until the compared portion of the second voltage is equal to the first voltage; and indicating means connected to said second motor means and operated by said second motor means to give an indication of the length of time the fuel would last if it were to continue to leave the tank at the present rate.

2,656,978

IMPROVEMENT IN OR RELATING TO SLIDE RULE

Nicholas E. Nicolet, New York, N. Y., assignor of thirty-three and one-third per cent to Theodore Hafner, New York, N. Y.

Application October 24, 1950, Serial No. 191,761
8 Claims. (Cl. 235—79.5)



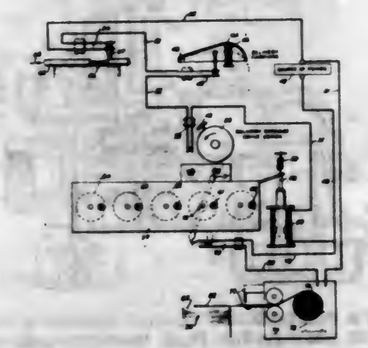
1. In combination, a cap member and a tubular member supported inside said cap member spaced therefrom and another tubular member telescoping over said first tubular member into the hollow annular space between cap and first member, said telescoping members having longitudinal scales forming a slide rule with the outer telescoping member having at least one longitudinal slot and the inner telescoping member being slidable and rotatable with respect to said outer telescoping member to bring different longitudinal portions of said inner portion selectively in alignment with said slot.

2,656,979

SHEET COUNTING DEVICE FOR SHEET HANDLING MACHINES

Amedeo De Palma, North Haven, Conn., assignor to National Folding Box Company, Inc., New Haven, Conn., a corporation of Connecticut

Application June 8, 1951, Serial No. 230,630
3 Claims. (Cl. 235—98)



3. A device for use with a sheet handling press of the type having a reciprocable delivery carriage for determining, by accurate count, the number of sheets delivered by such press, the press further including a shaft coupled with said carriage in such a way as to be actuated once for each delivery stroke of the carriage, the device comprising, in combination, a sheet unit register; an electric circuit connectible to a source of electric power for operating such register; a first switch of the make type operable by said shaft during the passage of the delivery carriage through the second half of the delivery stroke; a second switch of the make type on said carriage actuable by the weight of a sheet on said carriage, said second switch lying in said circuit in line with said first switch for joint operation of said register upon simultaneous actuation of both said switches; and a manually operable third switch of the break type for skipping a single unit count, said third switch lying in said circuit in line with said first and said second switch, said third switch being manually movable into open position and being mounted on said press for restoring into closed position by said carriage at a position of said carriage closer to the end of its delivery stroke than the point of closing of said first switch and after opening of said first switch.

2,656,980

KEY OPERATING MEANS FOR COMPUTING MACHINES

Harold C. Fox, Woodstock, Ill.

Application April 18, 1952, Serial No. 283,037
11 Claims. (Cl. 235—145)

1. In a computing machine key operating means comprising a plurality of number keys having finger buttons lying in side by side relationship, means mounting the finger buttons for setting up movement and for operating movement in a plane at substantially right angles to their setting up movement, and operating means



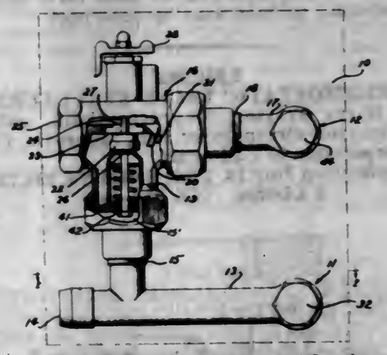
for the machine including parts lying adjacent to the finger buttons to be engaged and moved thereby upon operating movement of any one of the finger buttons.

2,656,981

HEATER FITTING AND CONNECTION

Rudolph T. Schoerner, Cranston, R. I., assignor to Taco Heaters, Incorporated, Providence, R. I., a corporation of New York

Application March 17, 1951, Serial No. 216,123
2 Claims. (Cl. 236—12)



1. In a fluid heater arrangement having a fluid inlet opening and a fluid outlet opening with a thermostatic regulating valve connectable therebetween, said valve having a delivery connection, said valve regulating the mixing of inlet fluid with heater outlet fluid according to the temperature of the heater outlet fluid, the combination including an elongated inlet fitting having an opening connectable to a source of inlet fluid, an opening connectable to said valve, and an opening connectable to said fluid inlet opening of the heater, said fitting having a fluid conduit extending along the same and having an aperture thereacross for receiving a connector, an outlet fitting connectable to said fluid outlet opening of the heater and having an opening connectable to said valve, said fitting having a fluid conduit extending between said openings and having an aperture thereacross for receiving a connector, and connectors insertable through said apertures in said fittings and screw-threadedly engageable in said openings in said heater, said connectors having channels therein connecting the fluid conduit of its fitting with its heater fluid opening.

2,656,982

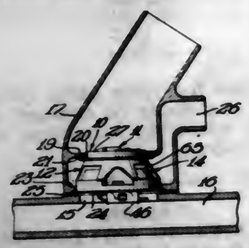
BY-PASS THERMOSTATIC VALVE

Harold B. Drapeau, Oak Park, and Robert B. Wingerter, Chicago, Ill., assignors to The Dole Valve Company, Chicago, Ill., a corporation of Illinois

Application May 26, 1951, Serial No. 228,392
15 Claims. (Cl. 236—34.5)

1. In a thermostatically operated by-pass valve structure, an annular valve casing having a wall, a by-pass port in said wall, an annular by-pass

valve guided within said wall into position to cover and uncover said port, a temperature-responsive element within said casing including an extensible member, a loose and slidable connection between said by-pass valve element and



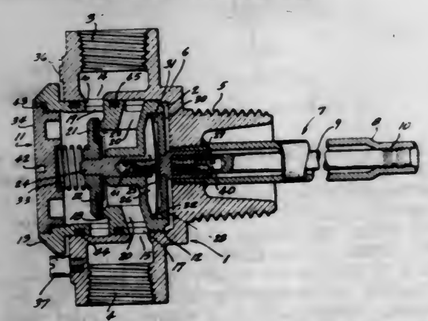
said extensible member, spring means urging said by-pass valve element to follow said extensible member upon extensible movement thereof, and return spring means retractibly moving said extensible member and said by-pass valve element into position to open said by-pass port.

2,656,983

THERMOSTATIC VALVE STRUCTURE

John Harry Grayson, Monrovia, Calif., assignor to Grayson-Greenamyer, Inc., Monrovia, Calif., a corporation of California

Application July 14, 1951, Serial No. 236,724
2 Claims. (Cl. 236—48)



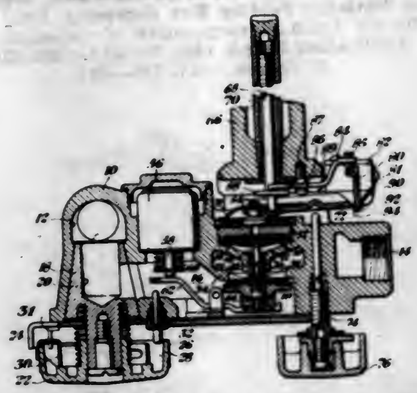
1. A coaxially arranged snap-action thermostatic valve structure comprising an outer casing having a cylindrical recess opening at one end thereof, thermostatic means subject to movement in response to changes of temperature and having a threaded adjustment member carried within said recess at the inner end thereof for movement and adjustment coaxially therewith, a cylindrical valve body threaded within said recess and having a valve seat and a movable valve member with a spring normally biasing said valve member against said seat toward the inner end of said recess, a circular snap-action device carried by the inner end of said valve body, an abutment plate between said threaded adjustment member and said snap-action device and disposed to operate the latter, a plunger carried by said valve body and axially movable therein by said snap-action device and engageable with said valve to lift the same from said seat and against the biasing action of said spring, and index means carried by said casing and valve body establishing predetermined positions of rotation of the latter within said casing whereby the rotation of said valve body moves the same axially for the selective adjustment of the temperature to be maintained by said thermostatic means as controlled by said valve member, said threaded adjustment member providing for the correlation of said snap-action device and the opening of said valve according to the rotational position of said cylindrical valve body.

2,656,984

THERMOSTATIC CONTROL DEVICE FOR WATER HEATERS

Michael J. Caparone, Arcadia, Calif., assignor to Robertshaw-Fulton Controls Company, Greensburg, Pa., a corporation of Delaware

Application September 22, 1950, Serial No. 186,159
11 Claims. (Cl. 236—102)



1. In a temperature control device, a casing having a passage for fluid therethrough, valve means for controlling the flow of fluid through said passage, thermally responsive operating means for said valve means, means for adjusting said operating means to actuate said valve means in response to a first selected temperature condition, means for setting said operating means to actuate said valve means in response to a second temperature condition, and means cooperable with said operating means in response to said second selected temperature condition for rendering said setting means inactive.

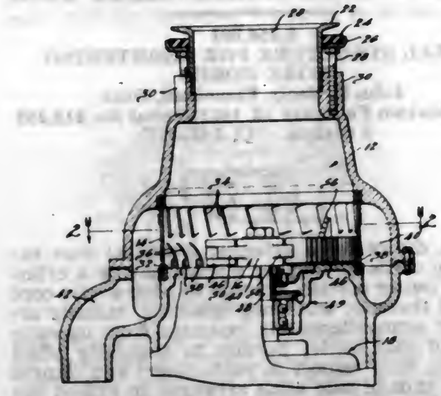
2,656,985

GARBAGE DISPOSAL APPARATUS

John R. Backlund and Vernon E. Flanders, Bloomington, Ill., assignors to Eureka Williams Corporation, Bloomington, Ill., a corporation of Michigan

Application March 5, 1951, Serial No. 213,928
4 Claims. (Cl. 241—88)

1. Garbage disposal apparatus comprising a vertically disposed chamber adapted to receive material to be reduced, a cylindrical shredder ring arranged at the periphery of the bottom wall of said chamber and extending upwardly therefrom, said shredder ring having a plurality of vertically spaced, circumferentially extending rows of cutting teeth formed thereon and a plurality of radially extending openings therein extending around the bottom of said chamber and forming a discharge outlet for reduced material, power driven rotary means at the bottom of said chamber and adapted during rotation thereof to project material against said teeth and through said openings, said rotary means comprising a plurality of radially extending hammers arranged to sweep the bottom wall of said chamber, at least one of said hammers being provided with an upwardly projecting agitator adjacent the outer end thereof, the teeth of the lower of said rows of teeth being formed by radially outwardly deflected portions of said shredder ring with the upper extremities thereof terminating substantially at the top of said hammers, and the teeth of the other



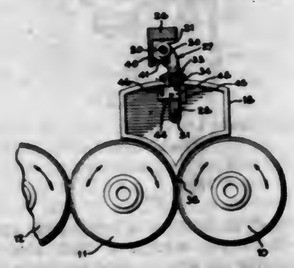
of said rows of teeth being formed by radially inwardly deflected portions of said shredder ring with the lower extremities thereof terminating above said hammers.

2,656,986

MATERIAL RETAINING END PLATE FOR ROLLER MILLS

Charles P. Brasington, Lake Mary, Fla.

Application June 13, 1952, Serial No. 293,364
7 Claims. (Cl. 241—226)



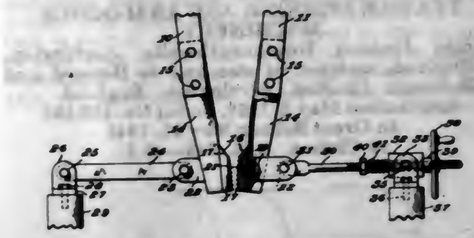
1. In a grinding mill including a pair of parallel grinding rollers in engagement with one another along a line of contact, one of said rollers being the second roller of said mill, a pair of plates disposed above said rollers adjacent the ends thereof, each of said plates being configurated to form two curves meeting in an apex, a rod disposed above said rollers, a pair of mounting arms depending from said rod, one of said plates being secured to each of said mounting arms, said plates and said arms being configurated so that when said apex is disposed over said line of contact, the center of gravity of said plate is displaced from vertical alignment with said rod, and said apex is urged toward said second roll, means for preventing the rotation of said plates relative to said mounting arms in a direction transversely of said rolls, a set screw carried by each of said mounting arms, an abutment member extending parallel to said rod on the side of said rod adjacent said second roller, said set screws engaging said abutment member and being effective to limit displacement of the arms and end plates in the direction of the second roller beyond a point at which the apex of each of said plates is disposed directly over the line of contact of said rollers.

2,656,987

GRINDING MACHINE

Harold E. Drake, Fostoria, Ohio

Original application May 19, 1947, Serial No. 748,866. Divided and this application November 15, 1951, Serial No. 256,474
3 Claims. (Cl. 241—266)



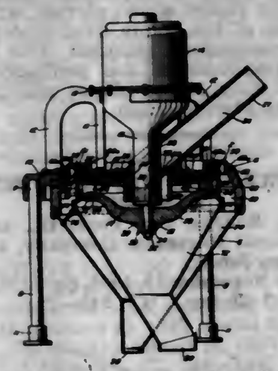
1. In a grinding machine, a pair of generally horizontal laterally spaced rocker bars supported substantially centrally of their ends on a shaft for rocking movement about the axis thereof, two opposed pairs of vertically reciprocable arms having their upper ends pivotally connected to said rocker bars in equally spaced relation to the said axis of the shaft, a channel member disposed between the arms of each pair thereof adjacent their lower ends and having its side flanges secured thereto, the bases of the channel members opposing each other in slightly spaced relation, and a grinding plate secured to the base of each channel member in facing relation to each other.

2,656,988

CENTRIFUGAL MILLING AND INSECT DESTROYING MACHINE WITH ROTARY IMPELLER AND ANNULAR TARGET

Franklin S. Smith, Hamden, Conn.

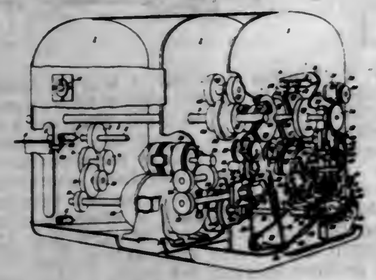
Application November 9, 1948, Serial No. 59,151
3 Claims. (Cl. 241—275)



2. In apparatus of the class described, the combination of, a casing construction including a top shell and a bottom hopper structure, said top shell comprising a substantially cylindrical frame, a top wall concentrically positioned with respect to said frame at the upper edge thereof and of lesser diameter than said frame whereby an annular opening is provided between the periphery of said top wall and said frame, and a cover for said annular opening, said top wall having a product inlet opening, a rotor mounted in said shell and adapted to receive a stream of the product from said inlet opening and to direct the product outwardly toward the inner surface of said frame, and a target assembly comprising a ring structure mounted on said top wall

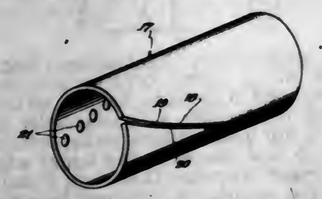
adjacent said annular opening and a plurality of elongated targets mounted on said ring structure and projecting downwardly through said annular opening thereby to form an annular array of targets around said rotor.

2,656,989
TEXTILE SPINNING AND ANALOGOUS MACHINERY
James Jackson Haythornthwaite, Accrington, England, assignor of one-half to Howard and Bullough Limited, Accrington, England
Application May 2, 1950, Serial No. 159,453
In Great Britain May 11, 1949
14 Claims. (Cl. 242—43.5)



1. A textile spinning, doubling or twisting machine comprising, in combination, spindle and ring rails, one of which is a reciprocatory element movable up and down relative to the other, lifting mechanism for the reciprocatory element comprising a lifter shaft, an epicyclic differential gear connected to drive the lifter shaft, and having two driving members whose inputs are combined by it, the one being a bodily fixed wheel and the other a planet wheel carrier, means for oscillating the bodily fixed wheel to effect the chase traverse of the reciprocatory element, means for imparting unidirectional travel to the planet wheel carrier, whereby the datum point of the bodily fixed wheel's oscillations is progressively adjusted, and means to vary the amplitude of the oscillations of the bodily fixed wheel in accordance with the desired shape of the yarn package.

2,656,990
EXPANSIBLE CORE FOR GLASS FILAMENT WINDINGS
Adelbert C. Radtke, Oak Park, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application November 18, 1950, Serial No. 196,479
7 Claims. (Cl. 242—72)



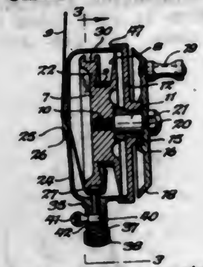
1. An expansible core for receiving windings of filaments comprising a metal sheet formed as a sleeve in a cylindrical shape, said sleeve defining a smooth cylindrical passage on the interior thereof, said sleeve having adjacent unattached side edges of the metal sheet extending the full length of the cylindrically shaped sleeve, and said sleeve having means diametrically opposite the adjacent unattached side edges for lightening the metal whereby the reduced weight of the sleeve at the discontinuous side edges is compensated for by the lightening of the metal on the diametrically opposite side for a balanced rotational inertia.

2,656,991
REEL STRUCTURE FOR SHORTENING WIRE CORDS
John E. Neely, Cleveland, Ohio
Application February 23, 1951, Serial No. 212,238
3 Claims. (Cl. 242—77)



1. A device for shortening electrical wire extension cords embodying a spool having a cylindrical center portion adapted to have a wire cord wound thereon; wire cord retaining, radially arranged arms alternately extended from opposite ends of said center portion in angularly offset relation with respect to each other; and flanges at the ends of said arms arranged to extend opposite to said center portion parallel to the axis thereof to prevent unwinding of electrical cord wound upon the center portion of said spool.

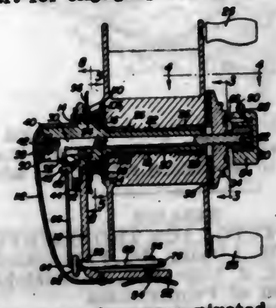
2,656,992
CASTING REEL
Albert Edward Keates, South Porcupine, Ontario, Canada
Application June 1, 1949, Serial No. 96,443
1 Claim. (Cl. 242—84.1)



A casting reel including a rotatable spool having flanges between which a fish line may be wound, a housing on which said spool is rotatably mounted, said housing having an aperture arranged substantially in alinement with the axis of rotation of said spool and through which the fish line may pass during casting by moving about one of said flanges to unwind the line from the spool without rotation of said spool, a member movable into close proximity to said flange to interrupt movement of said line about said flange and to enable said line to be wound on said spool by rotation of said spool, said flanges of said spool having the adjacent faces thereof inclined toward the axis of said spool and toward said aperture, to form a space between said flanges in which said fish line is wound and which underlies the periphery of said flange about which said line moves during unwinding of said line from said spool, whereby said line when being wound will be guided to the middle portion of the recess between said flanges.

2,656,993
FISHING REEL
Lester C. Dukes, Seattle, Wash.
Application March 27, 1950, Serial No. 152,211
4 Claims. (Cl. 242—84.5)

1. A fishing reel comprising a frame, means carried by the frame for attaching the frame to a fishing pole, a spindle supported on the frame and having an axial bore, a spool journaled for rotation on the spindle, a supporting shaft slidably mounted in the axial bore in said spindle, a brake member carried by and movable with said shaft for engaging the spool to arrest rotation of the spool, a cam pivoted on said frame and engaging said shaft, a rod journaled on said frame and paralleling said shaft, a connection between said cam and said rod, and means attached to said rod for rotating the rod and thereby pivot the cam and move the shaft and the brake member to a brake applying position.



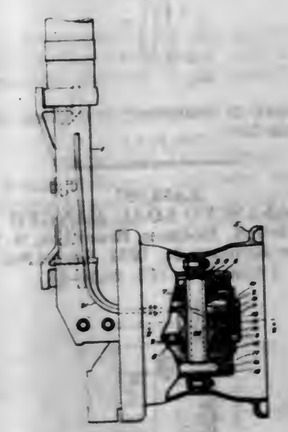
2,656,994
AIRCRAFT PEDAL DRIVE WITH POWER ACCUMULATOR
Joseph Isenberg, New York, N. Y.
Application May 22, 1952, Serial No. 289,319
1 Claim. (Cl. 244—64)



A device of the character described comprising an axis rotatably mounted in an aircraft, a pedal arm carrying a first pedal being provided at one end of said axis, a first gear wheel secured to the other end of said axis, a second pedal being laterally extended from said first gear wheel, a second gear wheel being smaller in diameter than said first gear wheel and being driven by the latter, a first shaft rotatably mounted in the aircraft being parallel to the longitudinal axis of the aircraft and secured to said second gear wheel, a second shaft rotatable in the aircraft forming a longitudinal continuation of said first shaft, a spiral spring through whose center portion said first shaft is extended being windable within the aircraft and having one end secured to the inner side thereof, a propeller provided on the second shaft, and coupling means for alternatingly connecting the other end of said spring to said first shaft for winding the spring, or to said second shaft and said first shaft, or for connecting said first shaft to said second shaft.

2,656,995
MULTIPOSITION CASTER LOCK FOR AIRPLANE CROSS-WIND MAIN LANDING WHEELS
Edward Wolf, Cuyahoga Falls, Ohio, assignor to Goodyear Aircraft Corporation, Akron, Ohio, a corporation of Delaware
Application May 9, 1951, Serial No. 225,293
5 Claims. (Cl. 244—103)

1. In an airplane cross-wind landing gear, a strut having at its bottom a wheel axle attached thereto, said axle being provided at its outer end with a bore forming a caster brake cylinder, a king pin disposed at an angle with the horizontal and being axially slidable and pivotable in said axle, a hollow wheel hub fixed to said pin and being radially spaced from said axle, a wheel rotatably mounted on said hub and being freely casterable about said pin, a cam within and being seated at the bottom of said hub, a pair of cam followers fixed to the bottom of said axle in contact with said cam, a spring concentric with the king pin and seated on said axle for centering the wheel in the cam when

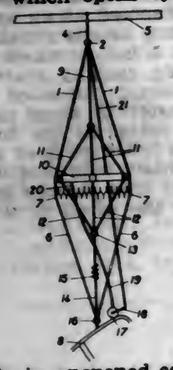


in the air, a caster multi-position locking device including a brake drum segment fixed to the wheel hub and being concentric to the king pin axis, a hydraulically, as well as spring actuated piston provided with a friction pad and movable within said brake cylinder for frictional engagement with said brake drum segment, and a pressure fluid conduit connected to said brake cylinder for applying pressure against the piston to actuate the brake for arresting the castered wheel position substantially at the caster angle the wheel assumes when touching ground, however, said locking device with the hydraulic pressure released providing sufficient friction by spring action to dampen shimmying of the wheel.

2,656,996
PARACHUTE HAVING AN INFLATABLE OPENING MEANS
Abraham Nilsen Hovland, Roa, near Oslo, Norway
Application March 12, 1951, Serial No. 215,856
In Norway March 15, 1950
2 Claims. (Cl. 244—149)

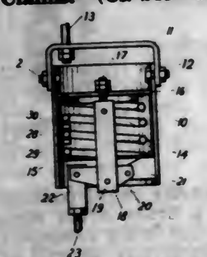
3. In a parachute comprising a substantially circular parachute cloth and a harness connected to the edge of said cloth, that improvement comprising an inflatable torus-shaped bladder which is smaller in diameter than the diameter of said parachute cloth and is suspended between said harness and said cloth, said bladder constituted by an outer flexible tubular envelope and an inner tubular flexible member of substantially greater thickness than said outer envelope, said inner tubular member being perforated and having a substantially smaller outer diameter than the inner diameter of said outer envelope, said bladder adapted to be filled by a fluid under pressure from a fluid pressure reservoir on said

harness having an automatic string actuated opening valve which opens by the extension of



the parachute in unopened condition to fill and burst said bladder.

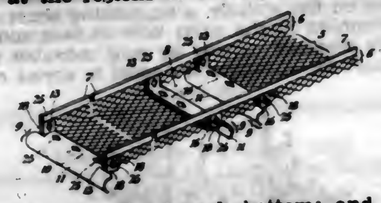
2,656,997
BALANCED LOAD HANGER
Thorleif K. Holmen, Brooklyn, N. Y.
Application January 31, 1951, Serial No. 208,801
2 Claims. (Cl. 248—54)



1. In a balanced load hanger of the character described the combination of a cylindrical housing; a U-formed strap fastened with both ends at one end of said housing; a supporting bolt fastened to said strap at a point off center from said cylindrical housing; a cylindrical helical spring supported with its lower end in said cylindrical housing; a cylindrical washer resting upon the upper free end of said cylindrical helical spring; a bolt being placed in the center of said washer; a link being supported by said bolt; a lever pivotal with one end in the lower portion of said cylindrical housing below said spring; a second link being pivotal to the free end of said lever, and a hanger bolt being fastened to said second link.

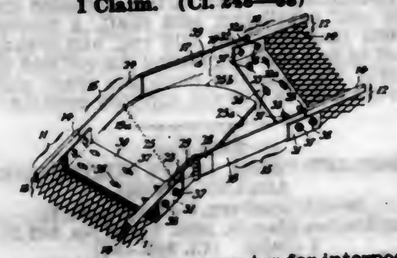
2,656,998
SUPPORTING TROUGH FOR CABLES
Frederick G. W. Ullberg, Jr., Philadelphia, Pa., assignor to T. J. Cope, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application November 15, 1951, Serial No. 256,461
4 Claims. (Cl. 248—68)

1. A trough for the purpose set forth, fashioned from reticulate material with a bottom, with longitudinally-extending upstanding side flanges, and with a drop-out opening in the bottom intermediate the ends thereof; finishing elements of plain sheet material with flat portions to marginally overlap the transverse edges of the drop-out opening, with rounded portions extending down through said opening, and with upstanding ears at opposite ends of the flat portions to upwardly lap the longitudinal flanges of the trough at the insides; U-shaped straps applied from beneath to embrace the trough bottom and sides at the regions of overlap of the finishing



elements upon the trough bottom; and means for securing the finishing elements and the straps to the trough in assembled relation as aforesaid.

2,656,999
ANGLE CONNECTOR FOR TROUGH SYSTEMS
Frederick G. W. Ullberg, Jr., Philadelphia, Pa., assignor to T. J. Cope, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application November 15, 1951, Serial No. 256,462
1 Claim. (Cl. 248—68)



An adjustable angle connector for interposition between the confronting ends of two straight-away trough units fashioned from reticulate metal and having longitudinally folded narrow reinforcing strips of plain sheet metal secured over the top edges of their side flanges, said connector comprising two mating trough section components fashioned from metal, one end edge of a side flange of one component being connected by a vertical axis hinge in abutting relation to the end edge of the corresponding side flange of the other component, the first component being straight throughout, the other component having a relatively short straight portion of a length equal to that of its hinged side flange and a bottom extended beyond the transverse plane through the hinge axis to lap the bottom of the first component, said extended portion being of quadrant configuration with respect to the hinge axis, the portion of the upstanding flange of said other component being detached from the curved edge of the quadrant bottom extension to lap the corresponding side flange of the first component, and a pair of U shaped clamp elements respectively applied from above and from below to marginally overlap the abutting ends of the connector components and of the trough units, with their upstanding ends lapping the side flanges of the connector components and trough units and extending up to the reinforcing edge strips on the side flanges of the trough units.

2,657,000
STAND FOR PRESSING IRONS
Clarence R. Tonks, Miramar, Wellington, New Zealand
Application August 10, 1951, Serial No. 241,299
In New Zealand August 29, 1950
3 Claims. (Cl. 248—117.6)

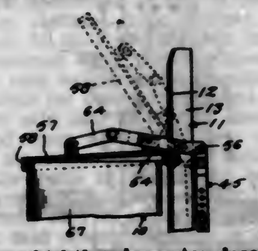
1. A stand for use in supporting an iron upon a table or like horizontal surface, comprising a

flat platform having raised edges along its sides and across its back end edge, a yoke to receive and surround the nose end of the iron and slidably attached to the underside of the platform



and projecting forwardly beyond the front edge of the platform, and means on the back end of the platform to fasten the stand on the edge of a table and to extend above the table surface.

2,657,001
REFUSE RECEPTACLE HOLDER
Earl F. Bennett and Otto Jarvis, Houston, Tex.
Application March 19, 1952, Serial No. 277,511
2 Claims. (Cl. 248—147)



2. In a stand of the character described adapted to support an open top receptacle detachably thereon, a lever pivotally connected near a rear end thereof to the stand for vertical swinging movement and having a forward end adapted to be disposed over the open top of the receptacle, a lid adapted to be normally supported on said closing the open top of the receptacle and disposed beneath the forward portion of the lever, a first means pivotally connecting the lid to the lever adjacent the lever pivot and between said pivot and the forward end of the lever, a link disposed above the lid having one end pivotally connected to the forward end of the lever and forming an extension thereof, and a second means pivotally and slidably connecting the other free end of the link to the lid remote to the lever pivot whereby when the forward end of the lever is swung upwardly the lid portion located adjacent the lever pivot will be initially elevated relatively to the lid portion disposed remote from said lever pivot after which said remote lid portion is elevated at an accelerated speed relatively to the lid portion located adjacent the lever pivot.

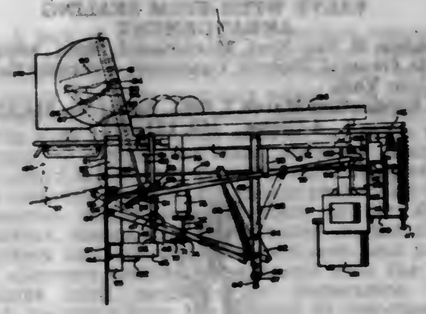
2,657,002
ASH RECEPTACLE FOR VEHICLES
Arthur Smereck, Detroit, Mich., assignor to Product Development Engineering Research and Promotion Corporation, Detroit, Mich., a corporation of Michigan
Application March 3, 1950, Serial No. 147,514
1 Claim. (Cl. 248—306)

An ash receptacle fastener including a polygonal tube projecting from a receptacle, a plug of polygonal cross-section fixed in said tube and projecting longitudinally from the free end thereof, a suction cup engageable with a support for mounting the tube thereon, an integral neck of



polygonal cross-section on the cup receiving the projecting portion of the plug, and a screw positively securing the cup to the outer end of said plug.

2,657,003
BAGGING MACHINE
Frank Belmont, Anaheim, Calif.
Application August 16, 1950, Serial No. 178,589
12 Claims. (Cl. 249—58)

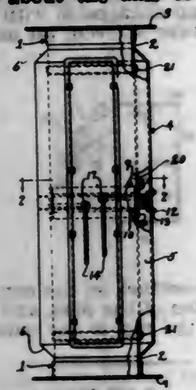


1. A packaging machine for handling articles such as citrus fruit, apples, potatoes and the like comprising: a frame; a beam pivoted on said frame; a pair of spaced arms carried by said beam; said arms being shaped to form bag retaining members; one of said arms being pivotally mounted for turning movement to bag releasing position; a pan pivotally mounted on said beam for movement into and out of position underlying said arms for supporting from the bottom a bag retained by said arms, said pan being adapted to pivot in a direction to lower its area of support upon progressive filling of the bag; a gate operable to control flow of said articles through said machine; means responsive to a predetermined weight of said articles carried by said arms to close said gate; and means operable to restrain turning movement of said pivotally mounted arm until said predetermined weight is carried by said arms.

2,657,004
VALVE WITH TWISTABLE SLEEVE
Julius A. Levington, Rutherford, N. J.
Application July 11, 1949, Serial No. 104,064
13 Claims. (Cl. 251—5)

1. A valve comprising two spaced end sections secured in fixed relation to each other, each end section having an opening, a flexible sleeve secured to said end sections and forming with said openings a passage through said valve, and means secured to said sleeve intermediate the

ends of said sleeve mounted for rotation relative to said ends about the axis of said sleeve for



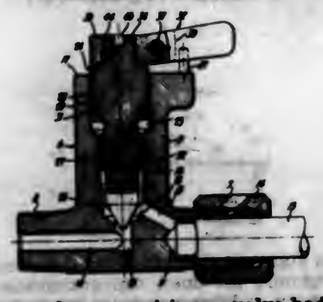
twisting the sleeve about the axis of the sleeve to close the passage therethrough.

2,657,005
VALVE WITH STEM SEALING ARRANGEMENT
Francis H. Van Nest, Marblehead, Mass., assignor to General Electric Company, a corporation of New York
Application March 7, 1951, Serial No. 214,323
1 Claim. (Cl. 251—32)



In a high pressure fluid shut-off valve having a housing with walls defining an inlet chamber and a valve seat member forming a discharge opening with a flow control member disposed in the inlet chamber and adapted in the valve closed position to be biased by inlet chamber pressure against the seat and carried by a stem slidably disposed in a supporting bushing extending through the wall of the inlet chamber, the combination of sealing means for the valve stem comprising an annular shoulder on the stem adapted when in the valve open position to engage a mating annular seat at the adjacent end of the stem support bushing, and stem positioning means comprising an actuating bushing member disposed for longitudinal sliding movement relative to a stationary housing portion and having a central axial bore threadedly engaging the valve stem whereby relative rotation of stem and bushing effects axial positioning of the stem, key means preventing rotation of the stem relative to the housing, first abutment means on the bushing and adapted to engage said housing portion for limiting longitudinal sliding movement of the actuating bushing in the valve-closing direction, a second abutment secured to the bushing and defining a preselected clearance with said housing portion when in the valve closed condition and adapted to engage said housing portion to limit sliding motion of the actuating bushing in the valve opening direction, whereby, when the flow control member is moved by rotation of the actuating bushing in the opening direction, the pressure in the inlet chamber acting on the flow control member automatically effects axial sliding movement of the stem and actuating bushing in the opening direction to bring the stem sealing shoulder into sealing engagement with the cooperating seat, the fluid pressure in the inlet chamber maintaining the stem seal shoulder in said engagement when in the normal open condition.

2,657,006
FLOW CONTROL AND SHUTOFF VALVE FOR PILOT BURNERS
Donald F. Drew, Los Angeles, Calif., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, a corporation of Delaware
Application July 27, 1948, Serial No. 40,839
3 Claims. (Cl. 251—45)



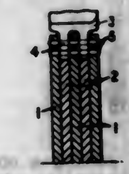
1. A gas valve comprising, a valve body having a threaded bore opening to a side of said body and formed with an annular valve seat at the inner end of said bore, said body having inlet and discharge passages opening to said bore and to the opposite sides of said valve seat, a valve plug threaded in said bore and having a valve face at its inner end movable into and out of sealed engagement with said valve seat upon rotation of said plug in said bore in opposite directions, and providing a maximum desired valve opening within one revolution of said plug, the outer end of said plug being of substantially cylindrical shape with the end face thereof formed with a tool engaging portion to effect turning of said plug in said bore, an operating handle having a clamp portion at one end formed with a circular ring portion embracing said cylindrical plug end to permit relative rotation of said ring portion and said plug end while exposing said end face for tool engagement, means for cinching said ring portion on said plug end for joint rotation of said handle and plug at a desired relative rotative position of said plug end and handle, and stop means provided on said body side engageable with said handle for limiting rotation thereof to not over one revolution, said parts cooperating to permit manual holding of said handle against said stop means and upon loosening of said ring portion independently rotating said valve plug to maximum desired valve opening and while still retaining said handle against said stop means cinching said ring portion upon said plug end to thereby set the maximum opening of said plug in the ensuing operation of said valve.

2,657,007
LATCH ATTACHMENT FOR VALVE-OPERATED SPRAY NOZZLES
Milton Gans, St. George, N. Y.
Application May 19, 1948, Serial No. 27,933
3 Claims. (Cl. 251—166)



1. A unitary attachment for a valve casing adapted for use with a spray nozzle, said casing including an external ball-shaped form and a spring-loaded valve for controlling the fluid flow therethrough, a valve actuating member operatively connected to said valve and mounted for valve-opening movement toward the ball form, said attachment comprising a pair of parallel resilient arms connected at one of their ends by a spacer-stop element fixed thereto, said arms being formed at their other ends to hold said ball form between them and mounted on opposite sides of said ball form in frictional engagement therewith for swivel movement of said attachment on said ball form, the spacer element being spaced from said ball form and in one position of the attachment said spacer element is out of the path of movement of the valve actuating member into valve-open and valve-closed positions and in a second position of the attachment said spacer element is in the path of the valve actuating member movement and adapted to engage and hold said member when the latter is in valve-open position.

2,657,008
TURBINE OR LIKE ROTOR
Joseph Atkinson, London, England
Application July 29, 1948, Serial No. 41,331
In Great Britain August 7, 1947
9 Claims. (Cl. 253—39.15)



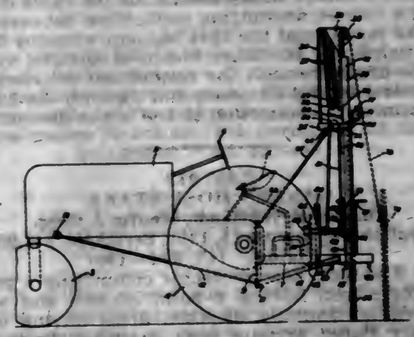
1. A bladed rotor for an axial flow gas turbine operating at high temperatures comprising at least three disc-like laminae integrated to form a laminated rotor body having recessed peripheral seatings for the reception of blade roots, at least some of said laminae being united by a bonded joint extending over a substantial area of the opposed faces of the laminae, and separately fabricated blades having root portions of an overall width in the axial direction substantially greater than the thickness of a single lamina, each blade having its root portion engaged in said seating and being attached to at least three of said laminae so that support for the blade is afforded by any one such lamina independently of support afforded by any other.

2,657,009
JACK
Harry B. Nels and Robert W. Wood, Harrisonville, Mo., assignors, by direct and mesne assignments, of one-half to said Nels and one-half to Edgar C. Alexander, Creighton, Mo.
Application September 7, 1951, Serial No. 245,458
3 Claims. (Cl. 254—93)



3. A jack of the character described comprising, an upright column, slide members movably mounted on the column in spaced relation, means on one of the slide members adapted to engage an object to be moved, latch members mounted on the slide members and adapted to engage the column to retain the slide members against downward movement, a fluid motor having relative reciprocable members, means connecting the respective reciprocable members to the slide members, means slidably mounted on the slide members and extending therebetween and having alternate resilient engagement with the respective latch members for disengaging the latch members from the column in response to reciprocation of the fluid motor members for moving the slide members in a step by step movement, and means for lengthening said slidably mounted latch engaging means to prevent its engagement with the latch members during elevating movement of the slide members.

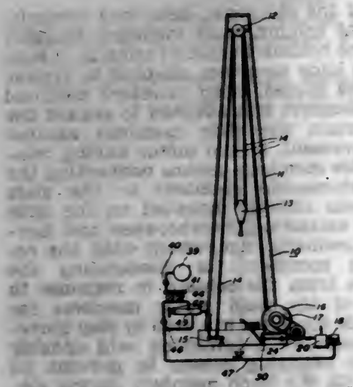
2,657,010
FENCE POST DRIVER AND PULLER
Walter E. Sabin and Laverne E. Sabin, Dolliver, Iowa
Application October 2, 1950, Serial No. 187,973
16 Claims. (Cl. 254—29)



1. In a fence post driver and puller adapted for use in connection with a power propelled ve-

hicle having a power takeoff shaft, a supporting frame having means at its forward end for mounting it on the power vehicle, an upright slideway on said frame, a driving head slidably mounted in said slideway and having means thereon extending in a direction congruent with the longitudinal axis of said vehicle for engaging the top of a fence post, spring means normally retaining the driving head in an elevated position in said slideway, a flexible cable having a running connection with said head, and disengageable gear means for drivingly connecting said cable to the power takeoff shaft of the vehicle, thereby to downwardly translate the driving head in the guide to force a fence post into the ground.

2,657,011
MEANS FOR CONTROLLING HOISTS AND WINCHES
John C. Slenneger, Dallas, Tex., assignor to The Continental Supply Company, Dallas, Tex., a corperation of Delaware
Application April 1, 1950, Serial No. 153,319
23 Claims. (Cl. 254—173)



1. Control apparatus for cable drums including, driving means, an element driven by said driving means, a second element adapted to be driven by the cable drum, a connection between the first and second elements, a support for the first element, the latter element being movable longitudinally of the support with respect to the second element, brake means for the cable drum, and a force-transmitting connection between the brake means and the first element whereby force for tightening the brake means is supplied by the cable drum through the connection between the first and second elements and through the force-transmitting connection to the brake means.

2,657,012
GARDEN HOSE STAKE
Charles P. Whitlock, Medford, Oreg.
Application August 15, 1951, Serial No. 241,993
2 Claims. (Cl. 254—190)

1. A garden hose protector comprising a piece of angle iron having a point on one end with spaced horizontally disposed arms having outwardly flared arcuate ends extended from the upper part thereof, said arms having vertically aligned openings therein, pins with flanges thereon positioned in the openings of the arms, and a roller with sockets in the ends positioned between the arms with the ends of the pins extended into said sockets.

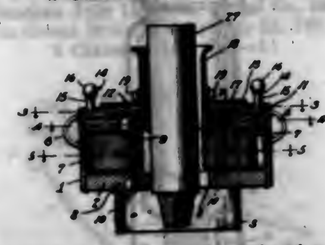


2,657,013
CORE ORIENTING APPARATUS AND METHOD
Edward F. Brady, Long Beach, Calif., assignor to Eastman Oil Well Survey Company, Denver, Colo., a corperation of Delaware
Application March 12, 1949, Serial No. 81,134
7 Claims. (Cl. 255—1.4)



1. In a method of taking a core in an earth bore being drilled and obtaining data with respect thereto which comprises providing a drill pipe with a core drill and a core receiving barrel at its lower end with respect to which the drill pipe and core bit are rotatable, both said bit and core barrel being retractable only with the drill pipe, cutting the core and allowing it to be received in the core barrel, removing torsional strain from the drill pipe, testing to insure that the drilled core in the core barrel immediately above the core bit is integral with strata which has not been drilled and then placing a survey instrument in the drill pipe above the core barrel and in a position with respect to the core barrel and the core therein that will be known and obtain thereby recorded data as to the angle of inclination of the axis of the core.

2,657,014
SUB HOLDER
Vey V. Webster, Newhall, Calif., assignor of twenty-five per cent to Benelli Cattle Company, Saugus, Calif.
Application January 29, 1952, Serial No. 268,724
2 Claims. (Cl. 255—23)



1. In a rotary drilling rig mechanism, a cylindrical casing, a plate fixed in the bottom of the casing and having a centrally disposed pipe receiving opening, casing rotating means on said casing, a second plate located in the upper part of the casing and provided with a centrally disposed pipe receiving opening, said plates having sets of bearing openings evenly disposed about the plate openings, the bearing openings in one plate being alined with the bearing openings of the other plate, pins journalled in said bearing openings, gripping members eccentrically fixed on said pins and provided with bosses on their upper and lower faces to hold the eccentric cylinders spaced from the first plate and to support the second plate, spur gears each carried by the upper end of a pin, a ring gear revolubly mounted on the second plate and meshing with said spur gears retaining means holding said ring gear in place, and operating means to manually rotate said ring gear.

2,657,015
MEANS FOR CIRCULATING MUD IN ROTARY WELL DRILLING RIGS
Odie Colquitt, Denver, Colo., assignor to Patents, Inc., Denver, Colo., a corperation of Colorado
Application March 16, 1950, Serial No. 150,074
6 Claims. (Cl. 255—24)



2. Means for circulating mud in a well drilling rig employing a rotary drill pipe, comprising: a drill stem secured to the upper extremity of said drill pipe; a vertical standpipe fixedly secured in said rig adjacent said stem; an elbow fitting rotatably mounted on the upper extremity of said standpipe so that it may be swung in a fixed horisontal plane to a position over said drill stem; a slide pipe attached to and supported by said fitting and extending downwardly from said fitting into said stem, said stem being both vertically and circumferentially rotatable about said slide pipe; and means for swingingly supporting said elbow fitting about the axis of said standpipe so that said slide pipe may be swung sidewardly about the axis of said standpipe and out of alignment with said stem when desired.

2,657,016
FLUID CIRCULATION HEAD FOR DRILL STRINGS
Donovan B. Grable, Long Beach, Calif.
Application January 20, 1950, Serial No. 139,655
5 Claims. (Cl. 255—25)



1. For connection to the upper ends of a well drilling kelly and an inner pipe contained therein and spaced therefrom; a swivel assembly comprising a single hollow body structure having a bottom wall containing an opening, a vertically extending tube connectable to said kelly at a location beneath said bottom wall and journalled in said opening in the bottom wall for rotation relative thereto about a vertical axis, said tube extending upwardly through said wall opening into the hollow body, said body having an upper wall containing an opening at a location spaced above said bottom wall and located higher than the upper end of said tube, a fluid inlet pipe attached to said upper wall and extending downwardly through said opening therein and into said hollow body, said fluid inlet pipe being in communication with said rotatable tube at a location within the body, fluid seal means within said body preventing fluid leakage between said pipe and tube, and a fluid outlet pipe extending downwardly within said inlet pipe communicable with said inner pipe in the kelly and to which said inner pipe is rotatably connectable.

2,657,017
ROCK DRILLING APPARATUS
John C. Curtis, Newport, N. H., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corperation of Pennsylvania
Application March 22, 1952, Serial No. 278,050
20 Claims. (Cl. 255—51)



1. A drilling apparatus comprising, in combination, a mounting structure, a support carried by said mounting structure, oppositely extending boom frames pivotally mounted on said support to swing in vertical planes with respect thereto

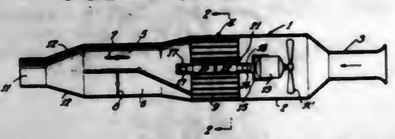
and projecting laterally in opposite directions with respect to said support, an elongated drill support carried by said boom frames, means for mounting said drill support on the outer ends of said boom frames including a connection providing for relative movement between one of said boom frames and said drill support during adjustment of the latter, and adjusting devices connected between said first support and said boom frames respectively for swinging the latter about their pivots to vary the drill supporting position of said drill support with respect to said mounting structure.

2,657,018

HEAT EXCHANGER

Clyde S. Simpelaar, Racine, Wis., assignor to Modine Manufacturing Company, Racine, Wis., a corporation of Wisconsin

Application December 6, 1948, Serial No. 63,771
5 Claims. (Cl. 257—137)



1. The combination with a heat exchange device including a tubular housing, of a heat exchanger mounted in said housing and comprising in combination a double walled tube formed from spaced plates and provided with laterally arranged interconnected passes and formed into a spiral formation, providing a fluid pass of spiral formation having an inlet end and an outlet end, a substantially centrally located header having a cross partition therein dividing the header into an inlet chamber and an outlet chamber, operatively communicating respectively with the inlet and outlet ends of said pass, the convolutions of the tube being spaced apart to leave a second spiral fluid pass between the convolutions, fin elements extending across the last mentioned pass between the convolutions and bonded to the walls of the first mentioned pass, said tubular housing also forming a by-pass passage contiguous to the outer end of the second spiral fluid pass, and damper means operatively mounted on said tubular housing contiguous to the heat exchange device for controlling the flow of a second fluid through said tubular housing.

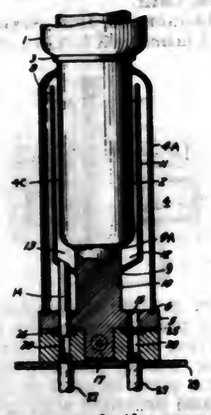
2,657,019

JACKET FOR WATER-COOLED TUBES

William C. Schmitt, Hackensack, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware

Application October 6, 1951, Serial No. 250,051
1 Claim. (Cl. 257—250)

In a mounting arrangement for the fluid cooling jacket of an electron tube on a mounting plate, said tube cooling jacket having fluid inlet and outlet ports extending through the base portion thereof and said mounting plate having two apertures extending therethrough and in register with said inlet and outlet ports, with gaskets sealing each of said ports to its apertures; means for mounting the jacket in sealing position on the mounting plate comprising a central aligning post coaxially projecting outwardly from the base portion of said jacket, said post having a tapered recess radially disposed along the length thereof, said mounting plate having a corresponding aperture through which said aligning post projects, a tapered screw key extending transversely through said mounting plate, said key being aligned with and adapted to fit with its end into the tapered recess in said post and by action of the tapered key on the tapered recess to force



the jacket down towards the mounting plate and to press said gaskets into fluid tight relation between said base and portion and said mounting plate.

2,657,020

HEAT EXCHANGER

Maurice H. Hofmeister, Evanston, Ill., assignor to Bell & Gossett Company, Morton Grove, Ill., a corporation of Illinois

Application September 20, 1949, Serial No. 116,647
2 Claims. (Cl. 257—255)



1. A heat exchanger including a plurality of connected, flat coils placed side by side in spaced and aligned relation to each other, each coil being continuous and elongated in shape and comprising spaced, parallel first and second straight legs, a first reverse bend connecting an end of the first leg to the adjacent end of the second leg, a third straight leg disposed between the first and second legs and connected by a second reverse bend to the other end of the second leg, the third leg angling towards the junction of the second leg with the first bend, and a fourth straight leg disposed between the first and second legs and connected at one end to the third leg by a third reverse bend positioned inwardly of the first bend, the opposite end of the fourth leg being reversely bent and terminating beside said other end of the second leg and said opposite end of the fourth leg being connected to the first leg on the adjacent coil, all of the legs in each coil lying substantially in the same plane, the angling of the third leg in each coil defining on opposite sides thereof triangular openings with the second and fourth legs and the alternate and intervening coils being relatively positioned so that the third legs therein respectively angle in different directions whereby the third and fourth legs in each coil substantially register with said openings, respectively, in the immediately adjacent coils to increase turbulent flow in the fluid passing over the coils.

2,657,021

APPARATUS FOR THE MECHANICAL PRODUCTION OF ACOUSTIC VIBRATIONS FOR USE IN EMULSIFICATION, DISPERSION OR LIKE PROCESSES

Eric C. Cottell, Ilkley, and John E. Goodman, Stanks, Leeds, England

Application July 15, 1952, Serial No. 298,978
In Great Britain February 22, 1951
5 Claims. (Cl. 259—1)



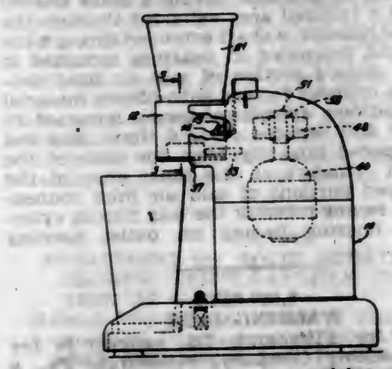
1. Apparatus for producing emulsification or homogenisation of oil and water and suspensions of solid matter in liquids and like purposes by mechanically produced acoustic vibrations in or near the ultrasonic range, comprising in combination a jet-form structure having at least one restricted outlet or nozzle, a blade-like vibrator element having at least a portion thereof supported for vibratory movement and located with its thin edge in line with said outlet, means for passing the liquid to be treated under pressure through said jet-form structure and against the thin edge of said vibrator element so as to produce the acoustic vibrations, and means for introducing said jet-form structure and vibrator element into or close to the medium to be treated.

2,657,022

BEATER MECHANISM FOR SOFTENING ICE CREAM

Newton E. Spiess, Jr., Oakdale, Edward M. Gropen, East Northport, and Kenneth R. Weaver, Bellport, N. Y., assignors to National Dairy Research Laboratories, Inc., Oakdale, N. Y., a corporation of Delaware

Application April 27, 1951, Serial No. 223,286
17 Claims. (Cl. 259—6)



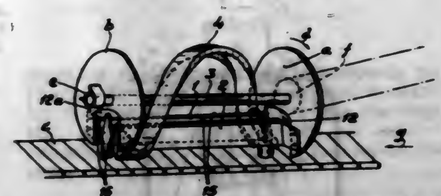
1. Beater mechanism, comprising a housing having inside wall means forming at least two intersecting chambers of circular cross section, the axes of which are spaced apart by a distance which is less than the sum of the respective radii of the chambers, said chambers communicating along a plane of intersection, a feed hopper on the housing, a plurality of beaters, means to journal the beaters in the housing in adjacent relationship with at least one beater in each chamber, said beaters having beater bar means defining upon rotation a figure of revolution of substantially the same size and shape as the chambers in which they are respectively mounted, said beater bar means thereby being adapted to move closely adjacent substantially all of the said inside wall means defining the chambers, means to rotate the beaters, and an outlet in the housing at the plane of intersection of the chambers and communicating with the beaters in both chambers to discharge beaten material from the housing, whereby the housing may be substantially completely emptied of beaten material through the outlet by the beaters.

2,657,023

METHOD AND APPARATUS FOR MIXING BEVERAGES

Berndt S. Welke, Oskarshamn, Sweden, assignor to Aktiebolaget Wicanders Korkfabriker, Linkoping, Sweden

Application May 2, 1951, Serial No. 224,166
In Sweden May 16, 1950
10 Claims. (Cl. 259—54)



1. Apparatus for mixing the contents of bottles comprising a rotatable part and a stationary part, the rotatable part having at least one axially arranged bottle guide, approximately parallel with the axis of rotation, in which guide the bottles are moved around the axis in about radial position, the stationary part having a stationary guide for the bottles extending around the axis of rotation so that it is out of the way of the rotatable guides and at least partly is formed like a helix, so that the bottles, while being turned over by the axial guide, may, at the same time, be pushed forward in the said guide by the action of the other guide and thereby be fed through the mixing apparatus.

2,657,024

AIR AND LIQUID MIXING DEVICE

Marshall C. Reinecke, Brooklyn, N. Y.

Application March 22, 1950, Serial No. 151,216
3 Claims. (Cl. 261—76)



1. A device for producing a jet of liquid containing air bubbles comprising a chamber having an inlet adapted for connection to a source of liquid and having an outlet for discharging the jet, an apertured disc at the upstream end of said chamber for delivering a plurality of streams of liquid into said chamber at a high velocity, said chamber having air inlet ports between said inlet and outlet through which air is entrained by

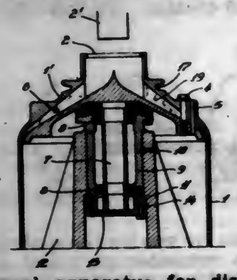
the streams of liquid, and means supported on said disc at the downstream side thereof including a solid baffle member adjacent said outlet, a rotatably mounted member at the upstream side of said baffle member having a plurality of blades for mixing the entrained air with the liquid, and a solid baffle member at the upstream side of said rotatably mounted member having circumferentially spaced grooves for directing streams of liquid onto said blades to effect rotation of said rotatably mounted member.

2,657,025

CENTRIFUGAL APPARATUS FOR MIXING GASES AND LIQUIDS

Fernand Jean Joseph Julien Henrard, Remicourt, Belgium, assignor to Ecremeuses Melotte, Societe Anonyme, Remicourt, Belgium, a Belgian company

Application October 4, 1950, Serial No. 188,308
In Luxemburg October 13, 1949
5 Claims. (Cl. 261—84)



1. Centrifugal apparatus for dispersing and mixing a gas and a liquid, including a cylinder and means for rotating the same, means for admitting a liquid into said cylinder, means for spreading the liquid along the inner periphery of the cylinder whereby the liquid escapes as a sheet in a tangential trajectory from the lower cylinder edge, means for sucking air into said cylinder, means for mixing said air with said liquid and a series of impact surfaces positioned along the lower portion of the cylinder and extending substantially perpendicular to said trajectory, said trajectory being followed by both air and liquid, said impact surfaces being positioned sufficiently close to the lower edge of the cylinder, so as to obviate a subsequent loss of the kinetic energy of the mixture, and also being located in a staggered relation so to be substantially perpendicular to the trajectory followed by the sheet of air and liquid and are located sufficiently close to the lower edge of the cylinder, so as to obviate a subsequent loss of the kinetic energy of the mixture, connecting surfaces and also including means for connecting with one another the impact surfaces, whereby to prevent the splashing of the mixture towards the exterior, and said connecting surfaces together with the impact surfaces forming buckets, each of which receives a part of the mixture.

2,657,026

EVAPORATION TYPE VEHICLE CLEANING AND COOLING UNIT

Charles Frederick Richter, Sr., Victoria, Tex.

Application January 5, 1951, Serial No. 204,657
3 Claims. (Cl. 261—92)

1. In an air cleaning and cooling unit for a motor vehicle, air intake tubes arranged in spaced relation, a cylindrical tank positioned between said tubes, said tank having closed ends, and containing fluid, a hollow cylindrical liquid-absorbing core arranged concentrically within said tank, said core having open ends, air inlet conduits connected at one end to said air intake tubes at points intermediate the ends of said air intake tubes, said air inlet conduits having other



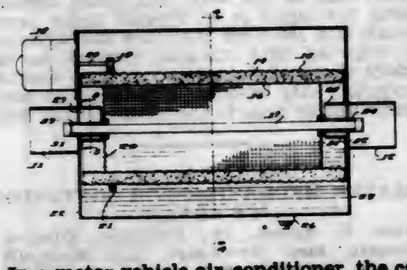
ends extending into the open ends of said core and opening therein, and a discharge hood overlying said tank and connected thereto, said hood communicating with the interior of the tank through an opening formed in the side wall of the tank and having a cooled and cleaned air-discharging mouth.

2,657,027

MOTOR VEHICLE AIR CONDITIONER

Ernest Shelby Marion, Walsh, Colo.

Application August 24, 1951, Serial No. 243,528
2 Claims. (Cl. 261—92)



1. In a motor vehicle air-conditioner, the combination which comprises a cylindrical housing adapted to be positioned below the instrument panel of a motor vehicle, said housing having an area for retaining water in the lower part, tubular air inlet connections having a dome shaped portion of a reduced area extended through the ends of the housing, a shaft extended through the housing and journaled in bearings mounted in the dome shaped portion of said air inlet connections, a cylinder formed with fibrous material retained between cylindrical screen mounted by wire mesh end sections on said shaft, said end sections spaced inwardly from the ends of the wire mesh cylinders at the inner ends of the dome shaped portions of said air inlet connections, and means rotating the said fibrous cylinder, said housing having an outlet opening therein.

2,657,028
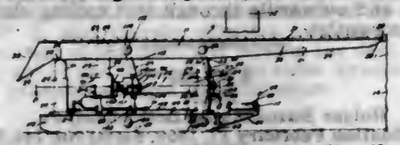
WALKING JACK

Joseph F. Joy, Pittsburgh, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application June 15, 1949, Serial No. 99,292
10 Claims. (Cl. 262—1)

1. In combination, a mine floor engaging support, a mine roof engaging frame, forwardly and rearwardly disposed jack devices yieldingly pressing said support and frame apart and causing said frame to exert a yielding supporting pressure on the roof, traction elements extending between said support and frame and connected at their

opposite ends respectively to said support and frame, an abutment jack, and feeding means reacting upon said abutment jack and acting upon said traction elements at points intermediate their connections to said frame and said support for forcing said points, in the direction of



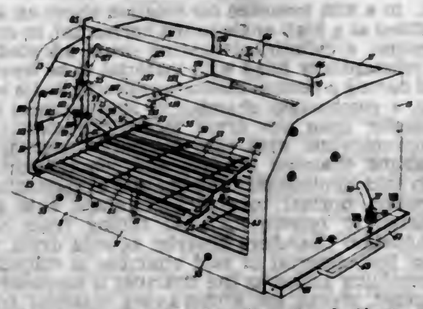
feed, away from a straight line extending through the connections of said elements with said frame and support, to cause the exertion of a traction towards each other between said frame and support and of a longitudinal feeding force upon both of them.

2,657,029

SHOE BOTTOM HEATER WITH LINKS FOR ADJUSTING HEATING-GRID SUPPORTS

Frank Richard Smith, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application November 20, 1951, Serial No. 257,400
In Great Britain December 14, 1950
6 Claims. (Cl. 263—8)



1. In apparatus for heating the bottom of a shoe, a support for a shoe, two heating sections disposed beneath said support, manually-operated means operable to adjust the relative disposition of said sections, prior to the disposition of a shoe on said support, to equalize substantially the heating of the bottoms of shoes having different angles at the break between the forepart and shank portions, and manually-operated means for providing relative bodily movement of approach or separation between the heating sections and the support without disturbing the relative disposition of said sections.

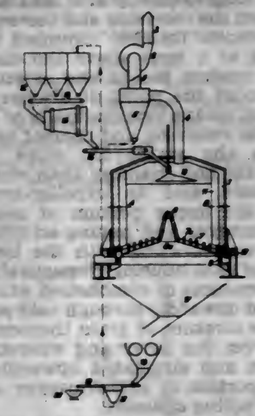
2,657,030

TREATMENT OF SOLID SUBSTANCES AT HIGHER TEMPERATURES UNDER ACTION OF GASES

Helmut Wendeborn, Seulberg, near Frankfurt am Main, Germany, assignor to Metallgesellschaft Aktiengesellschaft, Frankfurt am Main, Germany, a corporation of Germany

Application March 24, 1950, Serial No. 151,800
In Germany April 28, 1949
4 Claims. (Cl. 263—7)

1. A furnace for the treatment of solid substances at high temperatures under action of gases, comprising a reaction chamber, a gas permeable rotatable grate extending substantially over the entire bottom of said reaction chamber, adapted to receive thereon a charge of the substance to be processed in the furnace, means disposed above said grate to suck gas through said grate and through the charge upon said grate, said suction means being the sole device within said furnace for activating the movement of the gas through the furnace, said



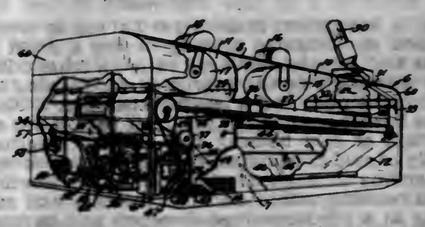
movable grate acting simultaneously as a discharge device for the processed charge, means for feeding said charge into the reaction chamber, and the useful height of said reaction chamber being smaller than its largest horizontal cross-sectional dimension.

2,657,031

GRAIN DRIER

Ben L. Tomlinson, St. Louis Park, and Donald E. Carlson, Litchfield, Minn., assignors to Arid Aire Manufacturing Company, St. Louis Park, Minn., a corporation of Minnesota

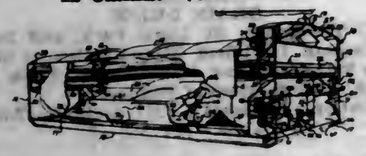
Application September 4, 1951, Serial No. 244,972
6 Claims. (Cl. 263—8)



1. A continuous grain dryer having in combination a housing having a delivery end and a receiving end and a top and a bottom, an endless porous conveyor extending substantially horizontally throughout the major portion of the length of said housing and medially disposed relative to the height thereof, conduit means in the receiving end of said housing adapted when connected to a source of grain to be dried to deliver continuously a stratum of such grain upon the receiving end of said conveyor, means for delivering dry grain from the delivery end of said housing to a point exterior thereof, a blast type burner mounted within said housing adjacent its delivery end and having a hot air discharge, a transverse partition dividing the interior of said housing into a larger hot chamber extending from a point inwardly of said burner to the receiving end of said housing and a cooling chamber extending from said partition to the delivery end of said housing, said cooling chamber communicating with the exterior at points below said conveyor,

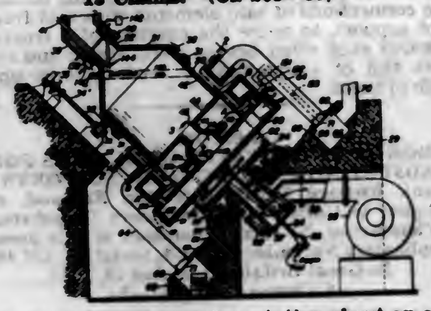
said partition having an aperture in the central portion thereof for accommodating said conveyor and the stratum of grain carried thereby, hot air conduit means receiving from the discharge of said burner and discharging hot air into said hot chamber of said housing below said conveyor and directed longitudinally and centrally of said housing toward the receiving end thereof, a panel-like air distributor member mounted below said conveyor and at a level above the discharge of said hot air conduit means and extending from a point adjacent the point of discharge of said hot air conduit means longitudinally of said housing toward the receiving end thereof to effectively distribute the warm air more uniformly throughout said hot chamber than would otherwise take place, and an expeller-type blower mounted in the upper portion of said housing above said conveyor and having an intake and a discharge communicating with the interior and the exterior of said housing respectively whereby hot air and products of combustion will be drawn and circulated upwardly through said porous conveyor and the stratum of grain thereon and then discharged from the dryer and whereby cool air will be drawn and circulated upwardly through the delivery portion of said conveyor and circulated in said cooling chamber.

2,657,032
GRAIN DRIER
Ben L. Tomlinson, Minneapolis, Minn., assignor to Arid-Aire Manufacturing Company, Minneapolis, Minn., a corporation of Minnesota
Application September 17, 1952, Serial No. 310,014
12 Claims. (Cl. 263—8)



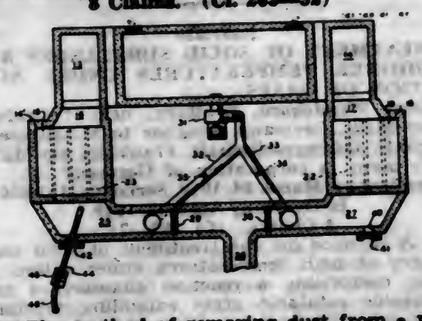
1. A continuous grain dryer having in combination an elongated housing having a grain intake and a grain discharge outlet, a longitudinal partition dividing the interior of said housing into a hot chamber and a cooling chamber, a blast-type burner mounted in the lower part of one end portion of said housing and directed longitudinally of said housing, an endless porous conveyor extending throughout substantially the length of said housing within said hot chamber and running in a predetermined direction and having a receiving end and a discharging end, said hot chamber having an air inlet below said conveyor and an air outlet above said conveyor and said burner discharging hot air into said hot chamber below said conveyor, means for delivering a stratum of grain from said grain intake to the receiving end of said conveyor and depositing the same thereupon, a second endless porous conveyor extending substantially throughout the length of said housing within said cooling chamber and traveling in an opposite direction than said first mentioned conveyor and having a receiving end and having a discharging end which discharges the grain outwardly through said grain discharge outlet, said cooling chamber having an air inlet and an air outlet one of which is disposed above and the other of which is disposed below said second mentioned conveyor, means for receiving the grain from the discharging end of said first mentioned conveyor as it is discharged therefrom and for depositing the same upon the receiving end of said second mentioned conveyor, means for driving the hot air from said burner upwardly through said first mentioned conveyor and the stratum of grain thereupon and outwardly through said hot chamber's air outlet, and means for driving cool air through said second mentioned conveyor and the stratum of grain thereupon and outwardly through said cooling chamber's air outlet.

2,657,033
KILN
Holger Struckmann, Bethlehem, Pa.
Application February 17, 1950, Serial No. 144,744
13 Claims. (Cl. 263—33)



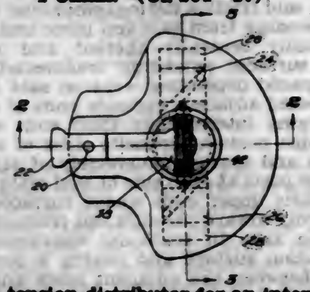
1. In a kiln mounted for rotation about an axis inclined at a high angle to the horizontal, in combination, a cylindrical heating drum adapted to be substantially filled with material to be treated and having a central discharge opening in its bottom, a combustion chamber of substantially less diameter than the drum located beneath and communicating with said discharge opening, a tumbling chamber beneath and communicating with said combustion chamber and elongated in a direction normal to said high angle axis and adapted to receive material falling from said combustion chamber, whereby as said drum rotates the material in said chamber is subjected to tumbling action as the chamber is successively upended, means for withdrawing material from said tumbling chamber as the kiln rotates at a rate such as to maintain the same substantially full of material, and means for injecting fuel into the combustion chamber.

2,657,034
OXYGEN LANCING OF FURNACE FLUES AND CHECKERS
Thomas A. Thompson, Toronto, Ohio, assignor to National Steel Corporation, a corporation of Delaware
Application July 17, 1950, Serial No. 174,259
3 Claims. (Cl. 263—52)



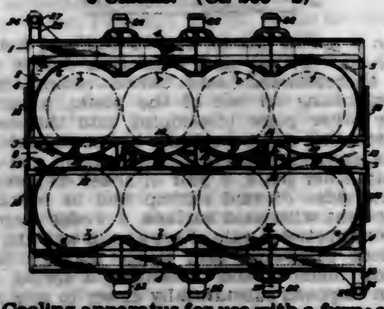
1. The method of removing dust from a passage comprising flowing gaseous products of combustion through and then out of a passage in one direction, the gaseous products of combustion carrying dust particles that collect in the passage, impinging a stream of gas containing at least 90% by volume of free gaseous oxygen against the collected dust in the passage while the dust is at a temperature of at least 1000° F. and thereby effecting oxidation of at least part of the dust, and flowing the dust residue out of the passage in the same direction as the gaseous products of combustion.

2,657,035
CENTRIFUGAL MEANS FOR A HIGH TENSION DISTRIBUTOR ARM
Frank W. Hartman, Jr., Dearborn, Mich., assignor to Holley Carburetor Company, Detroit, Mich., a corporation of Michigan
Application July 26, 1951, Serial No. 238,679
1 Claim. (Cl. 264—17)



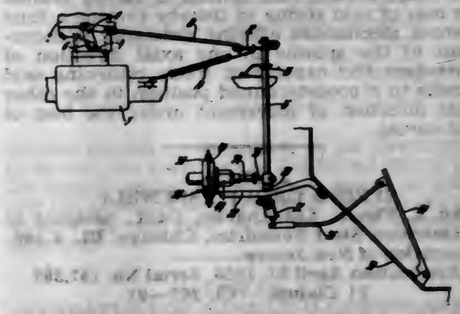
A high tension distributor for an internal combustion engine comprising a drive shaft driven at one-half engine speed, a first element made of insulating material mounted on said shaft, a second element also made of insulating material mounted on said first element, a pair of speed responsive weight sliding in the first element and engaging the second element to drive the second element, yielding means to oppose said weights, said driving means being designed to advance the timing of the second element relative to the first element, said weights comprising two similar sliding weights symmetrically located and the yielding means including a tension spring connected to the weights and restraining the outward travel of the weights in response to centrifugal force.

2,657,036
COOLING APPARATUS
Charles M. Nichols, Pittsburgh, Pa., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 27, 1950, Serial No. 187,832
6 Claims. (Cl. 266—2)



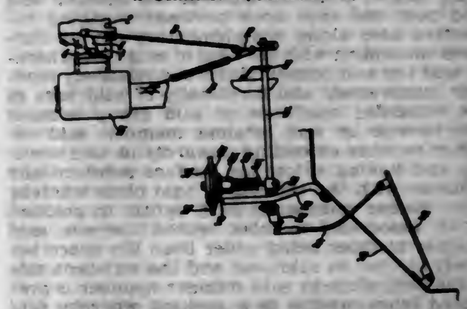
1. Cooling apparatus for use with a furnace base supporting a charge enclosed by a protective cover comprising a structure consisting of side walls only adapted to enclose the protective cover but spaced therefrom, at least one aperture in the lower portion of the side walls, and a fan mounted in this aperture adapted to draw in air from outside the structure and direct it upwardly along the surfaces of the protective cover.

2,657,037
ANTISTALL DEVICE
Adolph F. Braun, Davison, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 12, 1950, Serial No. 138,213
4 Claims. (Cl. 267—1)



1. An air dashpot including: an air chamber having a flexible diaphragm wall the movement of which varies the volume of said chamber, a check valve in another wall of said chamber allowing the free movement of air into said chamber from the atmosphere but restricting its exit therefrom, a restricted opening in said other wall by-passing said check valve, a compression spring positioned between said check valve and said diaphragm and acting between said other wall having the check valve and said diaphragm to bias said flexible diaphragm wall in a direction to increase the volume of said chamber, and means for moving said diaphragm against said biasing spring to decrease the volume of said chamber and force the air in said chamber through said restricted opening to provide a dashpot action.

2,657,038
ANTISTALL DEVICE
John R. Emerson, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 28, 1950, Serial No. 141,000
2 Claims. (Cl. 267—1)



1. A closed circuit fluid dashpot including: a fluid tight casing, a flexible diaphragm dividing the interior of said casing into two separate

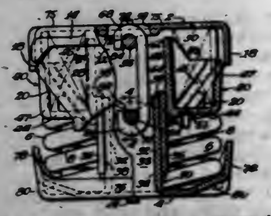
chambers, a spindle member extending through said casing and capable of transmititng force to said diaphragm in both directions of axial movement, a spring between the spindle member and said casing at all times biasing said spindle in one direction of movement, said spindle having an opening therein capable of allowing the limited flow of fluid from one of said chambers to the other, a lost motion connection between said diaphragm and said spindle, a valve element on said spindle capable of being operated by said lost motion to a position away from said diaphragm to allow the passage of fluid from one of said chambers to the other when said spindle is moved under the bias of said spring and capable of being closed against said diaphragm by said lost motion when said spindle is moved against the bias of said spring to thereby provide a fluid dashpot mechanism offering resistance to movement of the spindle in one axial direction of movement and capable of freely returning said spindle to a predetermined position in the other axial direction of movement under the bias of said spring.

2,657,039

SPRING GROUP ASSEMBLY

John E. Flesch, Los Angeles, Calif., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

Application April 21, 1950, Serial No. 157,387
11 Claims. (Cl. 267—9)



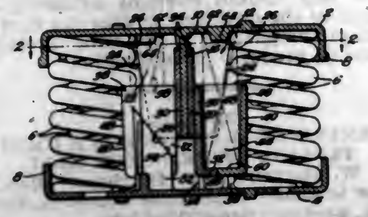
1. A package spring group comprising spaced top and bottom spring plates, a plurality of springs therebetween, a hollow friction post connected to said bottom plate and extending upwardly therefrom, a transverse bar within the upper end of the post connected thereto, a bar on said top plate above said first-mentioned bar and parallel therewith, said top plate having an opening therethrough above the bar thereon, and means for limiting expansion of said group comprising a retainer member extending from one bar to the other along one side thereof and having a hook portion hooked over the bar on the top plate and having another hook portion hooked under the bar in the post, said retainer being spaced from the sides of the opening and said post and said hook portions engaging respective bars along complementary curved surfaces concentric with the axes of said bars whereby said top and bottom plates are relatively movable transversely and torsionally of said bars in the expanded condition of said group without interference by said retainer member, said retainer member extending upwardly in said opening and having a top end surface substantially coplanar with the top side of said plate whereby said retainer member is held tightly in position by an associated member seated thereon, said retainer member being wider than the space between the bar in said post and the adjacent side of the post whereby said retainer member is prevented from canting to a position whereby said other hook portion is always disposed in at least partial vertical alignment with the bar in the post.

2,657,040

SNUBBED SPRING GROUP

Lawrence F. Ramos, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

Application December 1, 1950, Serial No. 198,583
10 Claims. (Cl. 267—9)



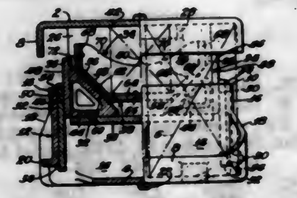
1. In a spring group, spaced top and bottom plates, coil springs and a friction device therebetween, said friction device comprising a friction wall depending from said top plate and disposed substantially centrally thereof and providing friction surfaces extending transversely of the group, spaced depending webs on said top plate and disposed adjacent opposite ends of said wall and merging intermediate their ends with said wall, wedge posts at opposite sides of said friction wall and spaced transversely of said group, the wedge posts at each side of said plate presenting at their upper ends wedge surfaces sloping downwardly toward the adjacent friction surface, a friction shoe in frictional engagement with each friction surface and having a portion extending between the adjacent posts and having other portions in wedge engagement with the wedge surfaces on the adjacent posts, and a coil spring extending into each shoe and seated against the lower end of the first-mentioned portion of the shoe and against the top plate and compressed therebetween.

2,657,041

SNUBBED SPRING GROUP

Robert B. Cottrell, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

Application December 7, 1950, Serial No. 199,601
9 Claims. (Cl. 267—9)



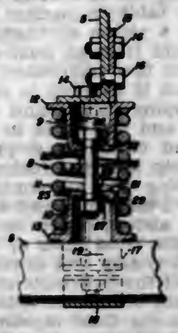
1. In a spring group, spaced top and bottom plates, coil springs and a friction device confined therebetween, said device comprising a friction casing on one of the plates, a stirrup on the other plate telescoping into the casing and providing a substantially horizontal friction surface at the end thereof remote from and facing said other plate, a pair of shoes disposed at opposite sides of said stirrup and in frictional engagement with said surface, a wedge member interposed between said shoes and in wedging engagement therewith, said wedge member being a hollow member and presenting a spring seat therein disposed substantially closer to said surface than to said other plate, and a single spring extending at one end into said hollow member and seated at one end against said seat and at its other end against the inner side of said other plate and compressed between the same.

2,657,042

AUXILIARY SPRING DEVICE FOR MOTOR VEHICLES

Joseph N. Brckovich, Gary, Ind.

Application September 28, 1950, Serial No. 187,296
1 Claim. (Cl. 267—28)



In a vehicle provided with side frame members sustained above a rear axle and differential housing by leaf springs, an auxiliary spring device between each of said side frame members and said housing, each spring device comprising a cup member fixed to the under side of one side frame member and provided with a bottom wall having a concave inner surface and a central opening, an inverted cup member fixed upon said housing in vertical alignment with the first-named cup member and having a top wall provided with a concave inner surface and a central opening, said cup members including base flanges, a helical compression spring bearing at its ends against said base flanges and having said cup members received in the ends thereof and spaced apart thereby for independent movement laterally, a bolt having its stem loosely extending through said openings of the cup members, a nut screwed on said bolt, and washers fitted on said bolt inwardly of the head of the latter and said nut and having convex faces engaging the concave surfaces of said cup members to provide universal joints between said bolt and said cup members.

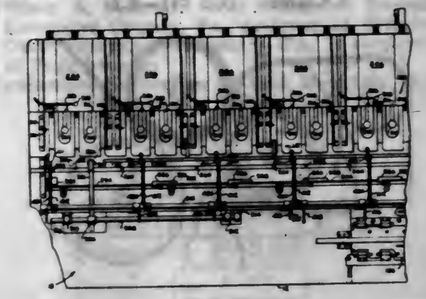
2,657,043

INSERT GATHERING AND ENVELOPE STUFFING MACHINE

Zenas E. Colby, Saginaw, Mich., assignor to Jackson and Church Company, Saginaw, Mich., a corporation of Michigan

Application February 5, 1951, Serial No. 209,404
10 Claims. (Cl. 270—55)

1. In an insert gathering and envelope stuffing machine, a stationary table, a series of insert magazines, means for delivering inserts simultaneously from the insert magazines to spaced positions on said stationary table, the means associated with the first insert magazine being adapted to deliver a folded insert to its position with the unfolded edge facing its insert magazine, means for positively engaging the upper and lower folded portions and for partially unfolding folded inserts delivered from the first of said insert magazines, a tubular member disposed partially above the first spaced position and above the remaining spaced positions on said stationary table and on which the upper portion of the folded inserts can be slidably positioned permitting the folded inserts to be translated past the succeeding insert magazines so as to receive in nested relation therein the inserts delivered from said succeeding insert stations, said tubular member having apertures in the lower



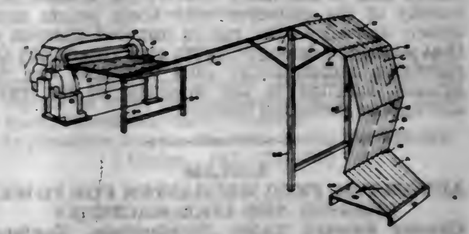
portion thereof to direct jets of air downwardly to depress the lower half of the folded inserts and the inserts nested thereon, and means to translate the delivered inserts so as to form nested collections by addition resulting from successive deliveries.

2,657,044

APPARATUS FOR HANDLING CORRUGATED PAPERBOARD

Charles W. Apgar, Philadelphia, Pa., assignor to Seaboard Container Corporation, Bristol, Pa., a corporation of Pennsylvania

Original application March 18, 1949, Serial No. 82,188. Divided and this application August 31, 1950, Serial No. 182,539
3 Claims. (Cl. 270—61)



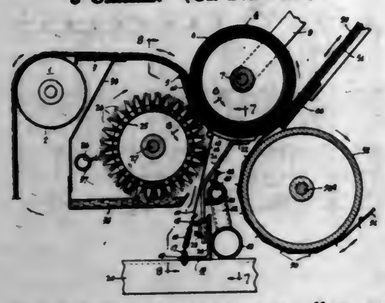
1. In an apparatus of the type adapted to produce corrugated paper cardboard in endless strip form and to discharge the same, in combination therewith means adapted to form spaced board sections defined by transversely extending score lines in said strip, an upwardly extending inclined member having its lower terminal end disposed in operative relation to the discharge end of said apparatus to receive said board strip, and a downwardly extending inclined member in continuation of the upper terminal end of said first named member, said board strip travelling over said members and being elevated thereby, the lower terminal end of said second named member being at an elevation from which said board may descend and be continuously fan folded along said score lines to form a stack of said sections, the upper terminal ends of said members and the lower terminal end of said second named member acting to partially fold said sections about said score lines as said sections are drawn downwardly thereover by their own weight.

2,657,045

RUG FEEDING APPARATUS

Jack P. Wilson, Penn Wynne, and William H. Scott, Oreland, Pa., assignors to Procter & Schwartz, Inc., Philadelphia, Pa., a corporation of Pennsylvania

Application August 16, 1950, Serial No. 179,762
5 Claims. (Cl. 271—2.1)



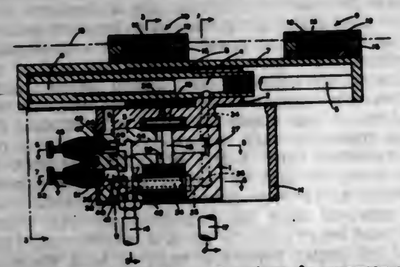
1. In rug scouring apparatus, a roll mounted to rotate about a horizontal axis, means to feed a rug to said roll to travel therewith about the surface of the roll with one side of the rug facing outwardly, means to support the rug continuously at said one side thereof for substantially the entire portion of its travel with the roll, an endless conveyor having outwardly projecting pins normally perpendicular to the path of the conveyor arranged at intervals longitudinally and transversely thereof and disposed to pass closely adjacent said rug support means and the roll to cause the latter to impale the rug upon the pins of the conveyor with the other side of the rug facing outwardly thereon, and means mounting said conveyor positioned with respect to the roll to cause the latter to angularly deflect the conveyor inwardly of its normal path in the zone of rug impalement and thereby dispose successively adjacent pins in angularly convergent relation outwardly of the conveyor with their points more closely spaced as the rug is impaled thereon so that when the conveyor again straightens out the normally perpendicular pins will hold the rug against buckling in the direction of its travel and oppose shrinking thereof.

2,657,046

AUTOMATIC FEED MECHANISM FOR POWER PRESSES AND LIKE MACHINES

Charles Edward Tallis, Birmingham, England, assignor to Birmingham Tool & Gauge Company Limited, Handsworth, England

Application August 20, 1951, Serial No. 242,763
In Great Britain August 29, 1950
6 Claims. (Cl. 271—2.5)



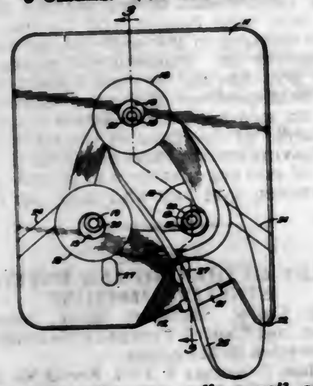
1. Automatic feed mechanism for power presses and like machines comprising in combination a base; a table mounted for reciprocatory movement on said base; hydraulically operated gripping means adapted to grip stock and mounted on said table for movement therewith; fixed hydraulically operated gripping means adapted to grip stock and mounted on said base so as to extend over the table in alignment with the movable gripping means on the latter; a pair of hydraulic rams mounted on said base and arranged to act in opposite directions on the table for imparting reciprocatory motion to the latter; a hydraulic impeller; a hydraulic system including two hydraulic fluid lines operatively connecting the impeller with the hydraulic rams for reciprocation of the table; a further hydraulic system comprising a piston arranged for operation by hydraulic fluid from at least one of the two fluid lines of the first mentioned hydraulic system which piston is adapted to displace fluid to one of the gripping means and withdraw fluid from the other and vice versa in order to alternately open and close the gripping means in timed relationship with the reciprocation of the table for effecting the automatic intermittent feed of stock to a machine; and a further piston arranged to be also operated on by fluid from the two hydraulic fluid lines of the first mentioned hydraulic system and in conjunction with the said piston of the hydraulic system for operating the gripping means, adapted to introduce lost-motion into the fluid movement along the two hydraulic fluid lines for the purposes of causing the table to pause at each extreme of its reciprocatory movement in order to enable the gripping action of the gripping means to be changed whilst the table is stationary.

2,657,047

CONTAINER FOR ENDLESS FILM REELS

William C. Eddy, Michigan City, Ind., assignor to Television Associates, Inc., Michigan City, Ind., a corporation of Illinois

Application April 25, 1952, Serial No. 284,293
5 Claims. (Cl. 271—2.18)



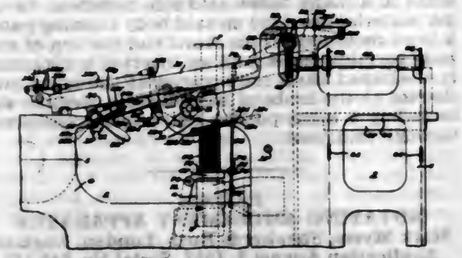
1. A cartridge for an endless coil of film or tape comprising a hollow casing having top and bottom walls substantially closed save for a plurality of pairs of openings, each such pair comprising an opening in the bottom wall and a corresponding opening in the top wall, and a plurality of rotatable film-guide rollers within said casing, each such roller having an axial aperture adapted for low-friction cooperation with a bearing and having also an axial extension surrounding said aperture and extending into one of said openings, said last-mentioned opening being larger than said extension, whereby said rollers, when not mounted on bearings, are free to move laterally within limits determined by said openings and said extensions.

2,657,048

MATERIAL HANDLING APPARATUS

August A. Saul, Ross Township, Allegheny County, Pa., assignor to Miller Printing Machinery Co., Pittsburgh, Pa., a corporation of Pennsylvania

Application May 31, 1950, Serial No. 165,297
53 Claims. (Cl. 271—10)



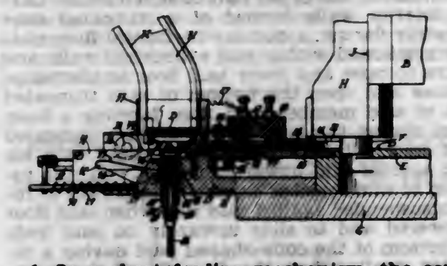
1. Material handling apparatus comprising a material supporting member, means carried entirely by the material supporting member mounted for movement relatively to the material supporting member for advancing material along the material supporting member, a pivotal mounting for the material supporting member pivotally carrying the material supporting member at the mid-portion of the material supporting member whereby it is approximately balanced enabling it to be easily and quickly turned by hand about the pivotal mounting so that the material supporting member may assume different positions about the pivotal mounting and means for fastening the material supporting member in at least one of such positions.

2,657,049

ARTICLE FEEDING MECHANISM WITH SEPARATOR MEANS ACTUATED BY FEEDING MEANS

Harry Baker, Wentworth County, Ontario, Canada, assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application June 20, 1949, Serial No. 100,231
4 Claims. (Cl. 271—14)



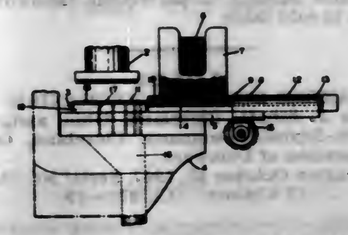
1. In a sheet feeding mechanism, the combination of a magazine for holding a stack of sheets, a reciprocable slide plate disposed adjacent said magazine, a suction cup movable at substantially right angles to said slide plate toward and away from said stack for separating sheets individually from said stack, a feed bar carried on said slide plate for receiving a separated sheet from said suction cup and for advancing it along a predetermined path of travel, cam means operable by said slide plate and operatively connecting with said suction cup for moving said suction cup toward and away from said stack, said cam means having a cam surface for moving said cup toward said stack during the latter portion only of the feeding stroke of said feed bar and a second cam surface for moving said suction cup away from the stack on the return stroke of the feed bar.

2,657,050

DEVICE FOR FEEDING SHEET MATERIALS

William A. Metcalf, West Lampeter Township, Lancaster County, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

Application September 30, 1948, Serial No. 52,041
2 Claims. (Cl. 271—44)



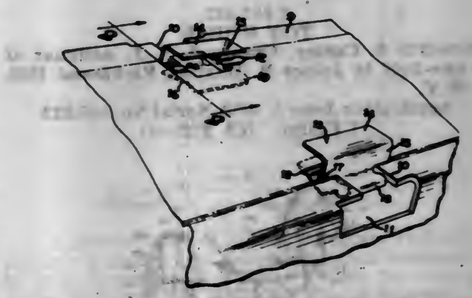
1. In the device for feeding rigid sheet materials such as linoleum composition tiles and the like, the combination of a support for a stack of rigid sheets to be trimmed, a stationary platen having a sheet-engaging surface which is completely unobstructed from above and upon which said articles to be trimmed may be freely moved, reciprocatory means engageable with the end portion of a rigid sheet for feeding the same over said support and into position on the unobstructed surface of said platen with the sheet fully disposed on the platen, and means for creating a zone of reduced pressure at the surface of said stationary platen during relative motion of said sheet over said platen by said feeding means to cause said sheet to be held against said platen as said sheet is moved by said feeding means.

2,657,051

COMBINED GUIDE AND TABLE STRUCTURE

Harry J. Waechter, Mount Healthy, Ohio, assignor to Paul Benninghofen and F. B. Diesbach, Hamilton, Ohio, trustees

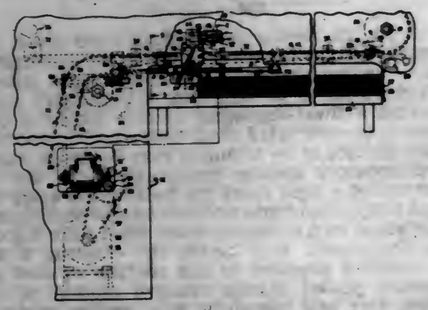
Application August 12, 1947, Serial No. 768,166
1 Claim. (Cl. 271—59)



The combination of a table for an autographic register or the like and an adjustable guide unit for guiding strips of paper longitudinally of said table, said guide unit formed from a single piece of resilient sheet metal and comprising a vertical wall, a horizontal flange extending from the upper end of said wall, said table having a lateral slot extending inwardly from one side edge thereof, said slot being substantially narrower than the longitudinal extent of said vertical wall, a plu-

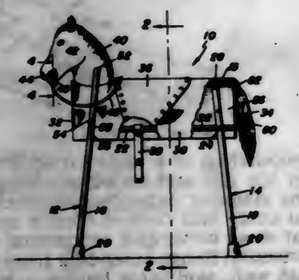
rality of grooves extending longitudinally of the table from opposite sides of said slot, a spring arm extending substantially parallel with said horizontal flange, said arm being wider than said slot and adapted to engage the underside of said table and thereby bias said vertical wall downwardly against the top of said table, said spring arm joined to the back wall by a connecting portion of reduced width adapted to fit into said slot, and the lower edges of the vertical back wall at the two sides of the connecting portion constituting groove engaging edges engageable in said grooves under the bias of said spring arm to lock the guide unit against displacement laterally with respect to said table.

2,657,052
SHEET DELIVERY MECHANISM
Thomas J. Elliott, Cleveland, Ohio, assignor to Harris-Seybold Company, Cleveland, Ohio, a corporation of Delaware
Application October 25, 1947, Serial No. 782,152
12 Claims. (Cl. 271—79)



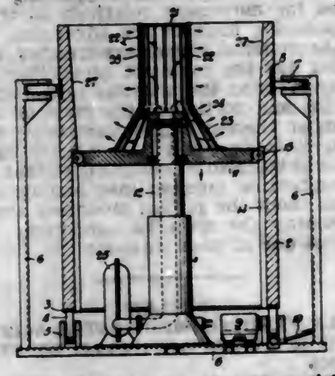
1. In a sheet delivery mechanism, a sheet conveyor adapted to be driven at different selected speeds and having means for gripping the sheets at their forward ends, suction means adapted to move in the direction of sheet travel over which the sheets are drawn by said gripping means, and manual means adapted to function during operation of the mechanism for controlling the speed of movement of said suction means independently of conveyor speed.

2,657,053
TOY HORSE
Meredith S. Conley, Cranford, N. J., assignor of one-half to James B. Haynes, Richmond Hill, N. Y.
Application June 2, 1950, Serial No. 165,823
1 Claim. (Cl. 272—1)



In a toy horse, the combination of front and rear leg members each having an inverted substantially U-shaped configuration and including an arcuate bight portion and a pair of divergent downwardly extending limbs, a pair of rod-shaped side members extending longitudinally between and securing together the respective limbs at the opposite sides of said leg members, an elongated and transversely arcuate body forming panel secured to the bight portions of said leg members and extending downwardly on said limbs to a plane below said side members, covering material provided on said body forming panel, a head mounted on the front end portion of said body forming panel, and an inverted substantially U-shaped hand rail secured at the lower ends thereof to the limbs of the front leg member and including a bight portion extending transversely through said head.

2,657,054
ROTATING AMUSEMENT APPARATUS
Mark Myers, Shepherds Bush, London, England
Application August 3, 1951, Serial No. 240,177
In Great Britain August 19, 1950
2 Claims. (Cl. 272—46)



1. An amusement apparatus comprising, the combination of, a hollow member having an open top and rotatable about its vertical axis, means to rotate said member about said axis, the lower part of said member having interior walls formed of a cylinder, the upper part of said member having interior walls formed of a truncated cone upwardly flaring, a circular horizontal floor slidably positioned within said cylindrical walls and means to raise and lower said floor to alternately close and open the bottom of said truncated part of said member, said floor forming a base, when closing the bottom end of said truncated cone, upon which a person may stand with his back against said upwardly flaring wall, the rotation of said member causing said person to remain suspended against said wall when said floor is lowered and to slide upwardly on said wall, the bottom of the cone-shaped part having a diameter smaller than the diameter of the cylindrical part of the hollow member thus forming an abutment to limit the upward movement of said floor.

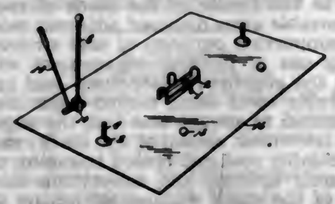
2,657,055
SKI PRACTICE BOARD
James Earl Denham, Reseda, Calif.
Application February 12, 1951, Serial No. 210,755
2 Claims. (Cl. 272—57)

1. In an exercising device for use in practicing skiing movements, a platform of relatively narrow, elongated form, said platform having means for securing thereto a pair of skis in closely spaced parallel relation, paralleling the longitudinal axis thereof, said platform having along said longitudinal axis a plurality of apertures spaced fore and aft, and a base adapted to be supported upon a floor surface, said base having a centrally disposed fulcrum member projecting upwardly therefrom and having an upper crowned bearing surface adapted to bear against the underside of said platform for supporting the same for universal pivotal movement, said base having a pivot post projecting upwardly from the center of said fulcrum member and receivable selectively in any one of said apertures for providing a universally pivotal connection between said platform and said base, said pivotal connection being disposed forwardly of the center of attachment of the operator's feet to the skis as secured to said platform, whereby the heels of the skis normally gravitate toward the supporting surface, said center of attachment being sufficiently close to said pivotal connec-



tion to enable the operator, by leaning forwardly, to balance his weight over said pivotal connection and to elevate the heels of the skis to a floating position, said base and platform being shaped and proportioned so that said platform at all times remains clear of any contact with said base except at said pivotal connection, whereby said skier may, with the skis in said floating position, cause the platform and skis to rotate freely about the vertical axis of said pivotal connection, in a generally horizontal plane, so as to simulate the execution of a skiing turn, the selective insertion of said pivot post in various apertures providing for selective adjustment of the spacing of said pivotal connection from the forward end of said platform, whereby to determine the amount of forward leaning which must be executed by the operator in order to balance said platform for said floating movement.

2,657,056
BALL CONFINING CLUB FOR CROQUET
Johannes Sorteberg, Bath, Pa.
Application January 31, 1952, Serial No. 269,226
3 Claims. (Cl. 273—56)



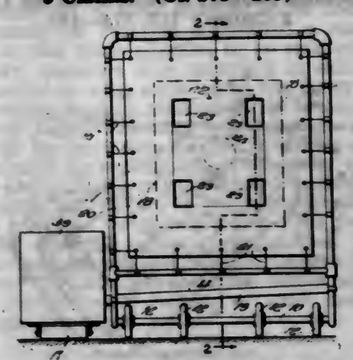
1. A device for use in the playing of the game of croquet, said device comprising a handle having a head at one end with substantially parallel spaced members elongated in the axial direction of the handle and forming a cage for loosely confining a croquet ball, said device having an opening on each side between the spaced members of such size as to permit the encaged ball to make contact with another ball and permit passage of a mallet head to strike the encaged ball, and being adapted to be slipped over the ball for loosely confining the ball while the ball is struck with a mallet.

2,657,057
PROJECTOR AND TARGET GAME
Allen A. Chapin, Driscoll, N. Dak.
Application October 10, 1950, Serial No. 189,428
5 Claims. (Cl. 273—101)



1. A game apparatus comprising a plurality of members disposed in radial relation and with their inner ends in juxtaposition to each other, means for securing the inner ends together, cup means positionable on said first mentioned means, and resilient projection means associated with each of said members whereby dice means may be projected into said cup means, said first mentioned means including a flat plate of non-circular form with each side thereof being formed with a downwardly extending flange, transversely extending recesses formed on the inner ends of said members for receiving said flanges.

2,657,058
PITCHER'S CONTROL TARGET WITH AUTOMATIC BALL RETURN
Hugh Mulcahy, Beaver, Pa.
Application September 4, 1951, Serial No. 244,930
3 Claims. (Cl. 273—103)



1. A pitcher's target of the class described comprising: a target; ball collecting means connected to said target for receiving a ball therefrom; spring actuated ball throwing means disposed to receive a ball from said target received by said ball collecting means; a first electrical contact means actuable by said received ball; a first electric motor responsive to said first electrical contact means; cyclically operative electrical contact means for causing said first motor to operate through a predetermined cycle of operation; a second electric motor for re-cocking said spring actuated ball throwing means; and a second electrical contact means responsive to said cyclically

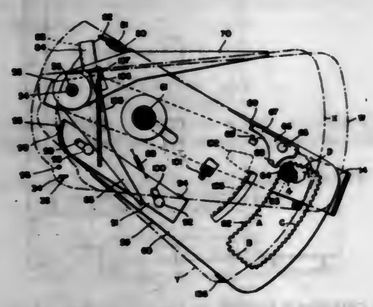
operative contact means and connected to cause re-cocking operation of said second motor at least once during each cycle of operation of said cyclically operative electrical contact means.

2,657,059
MAGNETIC LOT SELECTING DEVICE
Pearl Selig, Chicago, Ill.
Application September 14, 1951, Serial No. 246,541
6 Claims. (Cl. 273—144)



1. A device for shaking and selecting one indicia-bearing token from a group of such tokens, said device comprising a container in which a plurality of tokens is received, a removable cover for the container, a magnetized reciprocable plunger in the container, means for operating the plunger from the exterior of the cover, at least a portion of each token being made of magnetizable material such that the tokens within the sphere of influence of the plunger will be attracted to the plunger, and an open-ended guard around the plunger, said plunger being reciprocable into and out of the open end of said guard, said guard being sufficiently large to receive one token within its confines, said guard serving to remove all but one token from the plunger upon reciprocation of the plunger into the guard.

2,657,060
CHANGE CYCLE CONTROL MECHANISM
Arlington V. Lapish, Jackson, Mich., assignor to Capehart-Farnsworth Corporation, a corporation of Delaware
Application January 6, 1950, Serial No. 137,191
2 Claims. (Cl. 274—10)



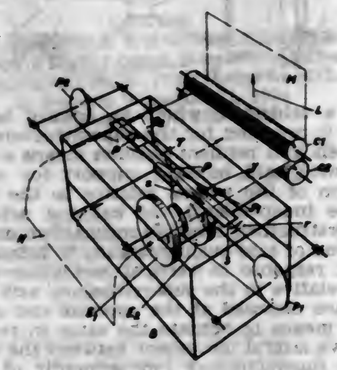
1. In an automatic phonograph, a base plate, a tone arm and auxiliary moving mechanism therefor, a turntable including an integral pinion and a projection, record-supporting means operatively associated with said turntable for supporting records of small or large diameter, a record-moving mechanism operatively associated with said record-supporting means and adapted for successively moving records onto the turntable, a bracket affixed beneath said base plate, a unitary change-cycle control member slidably mounted on said bracket, said change-cycle control member comprising a lever having formed in the body portion thereof a gear rack including a breached portion disposed adjacent said pinion and said projection, a pair of cams formed on said change-cycle control member, one of said cams being operatively associated with said tone arm for raising and lowering it and the other of said cams being operatively connected to said record-moving mechanism, a change-cycle initiating lever pivotally mounted on said change-cycle control member adjacent said projection, an actuating lever operable when said tone arm enters the tripping groove of a record to move said initiating lever to engage said projection to cause said gear rack to mesh with said pinion for reciprocating said change-cycle control member through a record change-cycle, an actuating member on said change-cycle control member adapted to engage said tone arm moving mechanism to swing said tone arm beyond the edge of the turntable, a tone arm control member affixed to said tone arm, an adjustable control member mounted on said change-cycle control member adapted for engaging said tone arm control member and returning the tone arm over the starting groove of a small record, a fixed stop, a tripping cam operable when said record-supporting means is moved to hold large records for moving said adjustable control member to allow said tone arm control member to be engaged by said first stop to return said tone arm over the starting groove of a large record, and means formed on said change-cycle control member for operating said record-ejecting mechanism.

2,657,061
RECORD CHANGER
Edward J. Sperber, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application April 28, 1950, Serial No. 158,882
11 Claims. (Cl. 274—10)



1. In a record feeding mechanism for automatic drop-type phonographs: retractable supporting structure for supporting a stack of phonograph disc records to be gravity fed and having record supporting portions disposed radially with respect to the center of the stack of records; a set of movable arms disposed adjacent said radial record supporting portions of said structure and normally out of holding engagement with records on the supporting structure, said arms being operable upon being moved from their normal positions to engage and grip the edges of all but the lowermost record of the stack; said arms have yieldably resilient record engaging portions for securely holding and supporting the upper records of the stack without subjecting the records to excessive stresses, and actuating elements for said arms and said structure effecting the movement of said arms into gripping engagement with the edges of all but the lowermost record of the stack and also effecting the retraction of said supporting structure.

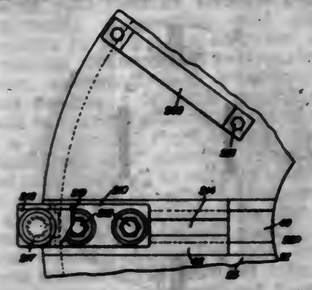
2,657,062
DICTATING MACHINE
Marcel Mesmier, Cuesmes, Belgium, assignor to Ateliers de Constructions Electriques de Charleroi, Brussels, Belgium, a Belgium societe anonyme
Application July 14, 1950, Serial No. 173,907
In France July 19, 1949
5 Claims. (Cl. 274—11)



1. A dictating machine having magnetic means for sound recording and reproduction, for use with records in the form of magnetic strips adapted to bear sound-recordings in parallel lines extending across the minor dimensions of the strip and at right angles to the major dimension of the strip, said machine comprising a magnetic recording and reproducing head, an oscillatable track pivoted intermediate its length and supporting said magnetic head for movement along the track, said track extending across the minor dimension of the strip and movable about its pivot from one position in inclined relation to a line at right angles to the major dimension of said strip to another in which it extends transversely of the said inclined position, means for moving said strip at a substantially constant speed in the direction of its major dimension, means for moving said magnetic head along said oscillatable track longitudinally thereof at a substantially constant speed in a reciprocating movement registering with record lines on said strip, and means operable at the end of each movement of said magnetic head along a record line to effect reversal of the inclination of said oscillatable track about the pivot constituting its center of oscillation and cause said magnetic head to register with the next record line.

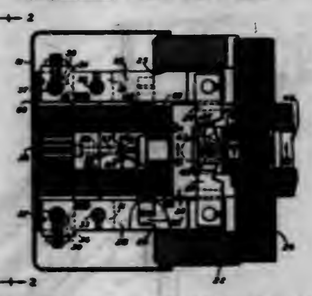
2,657,063
CAR WHEEL BORER
Alfred Treseh, Brighton, and Roland R. Roberts, Irondequoit, N. Y., assignors to Consolidated Machine Tool Corporation, Rochester, N. Y., a corporation of Delaware
Application September 22, 1950, Serial No. 186,225
8 Claims. (Cl. 279—1)

1. In a car wheel boring machine, a rotary face plate, a plurality of chucking members mounted on said face plate in angularly-spaced relation and adapted to grip a car wheel about its tread, and a plurality of separate chucking members mounted on said face plate in angularly spaced relation and adapted to grip a car wheel about the periphery of its flange, one set of



chucking members being movable out of operative position to permit operation of the other set.

2,657,064
FLOATING CHUCK
Edward P. Bullard III, Fairfield, and Arthur A. Tomecsek, Bridgeport, Conn., assignors to The Bullard Company, a corporation of Connecticut
Application October 1, 1949, Serial No. 119,178
8 Claims. (Cl. 279—16)

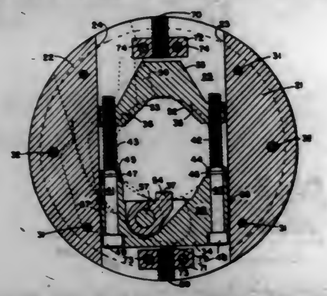


1. A floating chuck jaw assembly comprising in combination, a body adapted to be mounted on a spindle for rotation therewith; a machine center in said body adapted to be rotated with said body; movable jaws mounted in said body and adapted to grip work when the latter is on said machine center; pivoted levers mounted in said body supporting said jaws; means within said body for providing limited universal movement of said supporting levers relatively to said center, and a toggle joint mounted in said body for pivoting said levers to thereby actuate said jaws to grip said work, said toggle joint forming with said machine center, jaws, pivoted levers, and universal movement-providing means a self-contained unit whereby external forces will not affect the universal action of said universal movement-providing means.

2,657,065
AUTOMATIC CHUCK
Walter F. Wilhelm and Max De Haas, Dayton, Ohio, assignors to The Monarch Machine Tool Company, a corporation of Ohio
Application December 7, 1949, Serial No. 131,563
17 Claims. (Cl. 279—16)

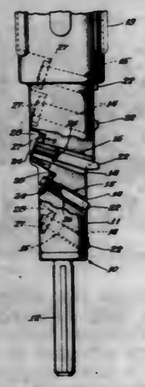
1. A chuck comprising a chuck body having a work piece gripping unit mounted thereon, said gripping unit having block means provided with at least first, second and third jaws, said third jaw being movable relative to said first and second jaws and all of said jaws being bodily con-

nected together on said block means and being universally mounted so as to be movable in a



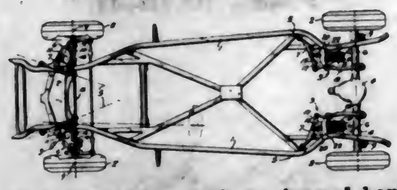
plane as a unit relative to said chuck body, and lever means urging said jaws together by torque applied to said chuck body.

2,657,066
TOOL HOLDING COLLET FOR BORING BAR ASSEMBLIES
Roy W. Boyd, Jr., Chicago, Ill.
Application December 22, 1950, Serial No. 202,322
1 Claim. (Cl. 279—46)



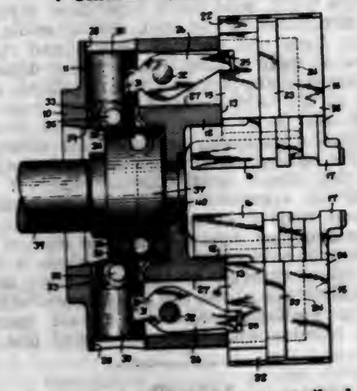
In a tool holder having a bar provided with a conical bore extending substantially laterally through the bar, said bar having a shoulder portion concentric with said bore and recessed in the peripheral surface of said bar a tool collet adapted to be secured within said bore, said collet including a shank and a hollow body, said shank having an externally threaded portion and being provided with a threaded bore extending through said shank, said body having an outer tapering surface and being longitudinally split to provide resilient tool engaging collet fingers adapted to receive and clamp a tool therebetween, a nut threaded on the externally threaded portion of the shank and seated in engagement with the shoulder portion, said nut being rotatable with respect to said shank for moving said collet longitudinally within the bore of the tool holder whereby the collet fingers are moved inwardly for clamping a tool disposed between said fingers, and a threaded thrust member disposed within the bore of said shank, said thrust member having a tool receiving recessed portion at one end normally disposed below the peripheral surface of said bar and being rotatable within the threaded bore into engagement with a tool secured between the collet fingers whereby a tool may be longitudinally adjusted with respect to said collet.

2,657,067
VEHICLE WITH INTERCUSHIONED BANKING AND VERTICAL OSCILLATION SUSPENSION FOR THE SUPERSTRUCTURE
Joachim Kolbe, Milwaukee, Wis.
Application April 19, 1947, Serial No. 742,496
In Great Britain February 8, 1946
37 Claims. (Cl. 280—112)



1. In a vehicle in which an inward banking support is provided for the superstructure upon the wheels and resilient cushion means are employed with said banking support for vertical oscillation of the wheels relative to the superstructure independently of banking action of the superstructure, leverage mechanism disposed at one end of said cushion means to actuate the same in response to vertical oscillation of the wheels relative to the superstructure, and leverage means disposed at the opposite end of said cushion means to actuate the same in response to relative lateral movement between the wheels and the superstructure independently of vertical wheel oscillation upon turns to prevent loss of banking effect resulting from changes in load distribution upon said cushion means.

2,657,068
CHUCK
Harry E. Sloan, Hartford, Conn., assignor to The Cushman Chuck Company, Hartford, Conn., a corporation of Connecticut
Application June 28, 1949, Serial No. 101,806
7 Claims. (Cl. 279—118)



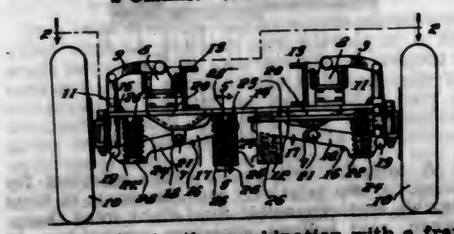
1. A chuck of the character described and including in combination: a body; a plurality of gripping-jaws carried by and movable with respect to the said body toward and away from each other; and operating-means concurrently moving the said gripping-jaws as described, the said operating-means including an operating-head reciprocatively connected to the said body and movable with respect thereto in substantial parallelism with the central-longitudinal axis thereof, a plurality of reciprocative jaw-operating plungers also reciprocatively connected to the said body for movement substantially perpendicularly with respect to the direction of movement of the said operating-head, a plurality of toggle-links each having its outer end pivotally connected to one of the said jaw-operating plungers and each having its inner end pivotally connected to the said operating-head, and a plurality of jaw-operating levers pivotally connected intermediate their respective opposite ends to the said body and each having one end pivotally connected to one of the said jaw-operating plungers and each having its opposite end pivotally connected to one of the said gripping-jaws.

2,657,069
COLLAPSIBLE WHEELED VEHICLE
Axel Harald Birger Quist, Norrkoping, Sweden
Application March 20, 1952, Serial No. 277,569
In Sweden November 1, 1950
10 Claims. (Cl. 280—40)



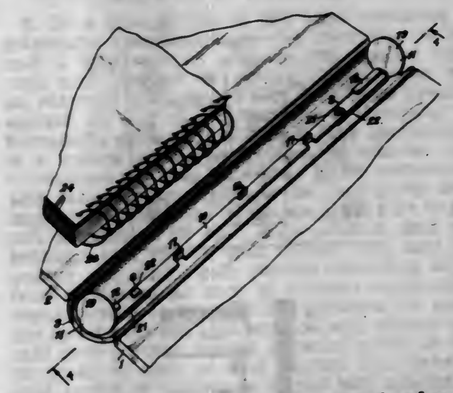
1. A collapsible vehicle comprising a frame having a load supporting surface, a handle pivoted to the frame for movement about a horizontal axis, wheels supported by the handle swingable about an axis parallel to the longitudinal axis of the handle to allow the wheels to be swung from a plane perpendicular to the load supporting surface to a plane parallel to the load supporting surface, complemental means on the wheel supports and frame to maintain the wheels perpendicular to the load supporting surface whereby the wheels engage the road surface, further means on the wheel supports and handle to permit the wheels to be swung about an axis perpendicular to the longitudinal axis of the handle so that when the handle is moved about its pivot to the frame into parallelism with the load supporting surface, the wheels may also be moved into parallelism with the frame load supporting surface in spaced relation to the handle, and operating means carried by the frame operatively connected to said complemental means for actuating the said complemental means, the operating means being located adjacent the said handle.

2,657,070
INDIVIDUAL WHEEL SPRING SUSPENSION
Gustave Kallner, Rockford, Ill.
Application February 1, 1950, Serial No. 141,761
2 Claims. (Cl. 280—96.2)



1. In a vehicle, the combination with a frame, a pair of steering knuckle supports and a wheel operatively connected to each of said steering knuckle supports, of a suspension mechanism including a body member arranged contiguous to the bottom of said frame, a shock absorber secured to the top of said body member, the ends of said body member being bifurcated and slidably embracing said steering knuckle supports, an arm pivotally connecting said steering knuckle supports to said shock absorber, a pair of spaced casings dependingly carried by said body member, apertured ears depending from each of said casings, a bracket pivotally connected to said ears and including a pair of spaced apart legs, a pin pivotally connecting the ends of said brackets to said steering knuckle supports, a first plate secured to each of said brackets, a first coil spring interposed between said first plate and said body member, a pair of U-shaped frames secured to the bottom of said body member and slidably embracing said brackets, the U-shaped frames being provided with a connecting web, a second plate secured to each of said brackets, and a coil spring interposed between said second plate and said web.

2,657,071
SPIRAL COIL LOOSE-LEAF BINDER AND THE LIKE
Herman Busse, Brooklyn, N. Y., assignor to Milton C. Johnson Co., New York, N. Y., a corporation of New York
Application July 22, 1952, Serial No. 300,189
4 Claims. (Cl. 281—19)

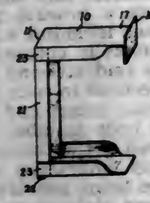


1. A book binding comprising a pair of covers connected by a back strip, a base plate overlying and secured to said back strip, tongues struck from the base plate, a mounting strip lying coextensively with the base plate, end walls located at the ends of the mounting strip and having channel-shaped parts interposed between said mounting strip and the base plate and embracing the mounting strip, said parts being apertured to permit of the passage of the tongues through them, the mounting strip being also apertured to permit of the passage of the tongues through them, the tongues being bent over on the outside of the mounting strip, a spiral binding member, and means on the mounting strip for engagement with said spiral binding member.

2,657,072
COVER FOR ENDS OF BOOKS
Victor B. Harrington, New York, N. Y.
Application August 3, 1949, Serial No. 108,407
2 Claims. (Cl. 281—29)

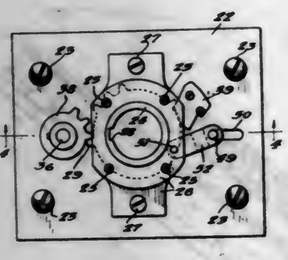
1. A dust cover for the upper edge of a book comprising at least a top portion having a length at least approximately equal to the width of a book and a width approximately the thickness of the book, the top portion being integral from end

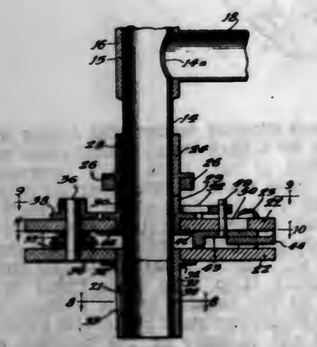
to end thereof and adapted to lie along the upper edge of the book, a downwardly extending portion at one end thereof to engage the front edge of the leaves of the book, side portions extending downwardly on each side of the top portion, the



material being resilient and a straight rearwardly directed extension of the top portion adapted to be bent downwardly between the book binding and the rear cover and retain its flexibility at the bend.

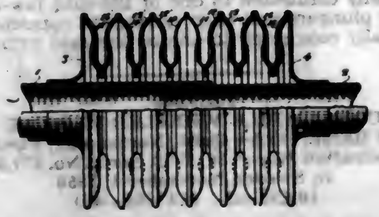
2,657,073
LOCKING COUPLER
John J. Funk, Chicago, Ill.
Application January 27, 1953, Serial No. 333,571
6 Claims. (Cl. 284—17)





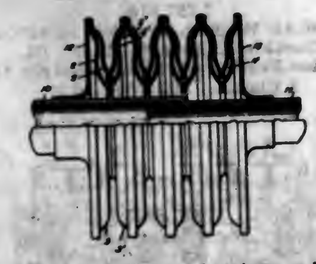
1. A coupling device for establishing communication through a conduit, comprising: a cylindrical nozzle adapted to be secured to a flexible hose line, said nozzle being provided near its free end with an outwardly extending lug; and a socket member having an upper fixed sleeve portion with a slot to receive the end of said nozzle, a rotary sleeve having a slotted opening beneath and in alignment with said fixed sleeve portion, a movable baffle beneath and forming a closure for said rotary sleeve portion, means on the rotary sleeve for moving the baffle from closed position when said sleeve is turned by the nozzle, and a lower fixed sleeve portion with a slot to receive the end of said nozzle when the nozzle has been turned to open the baffle.

2,657,074
METALLIC BELLOWS
Daniel P. Schwester, East Orange, and John J. Phillips, West Orange, N. J., assignors, by mesne assignments, to Titeflex, Inc., Newark, N. J., a corporation of Massachusetts
Application August 17, 1950, Serial No. 179,901
1 Claim. (Cl. 285—90)



A metallic bellows structure adapted to connect two relatively movable parts to form a flexible and expansible fluid-tight joint therebetween, said bellows structure comprising, in combination, a plurality of connected pairs of dished annular diaphragms of like shape and size welded to each other at their outer margins and to adjacent pairs at their inner margins, the central pair of diaphragms consisting of relatively thin gauge metal and being relatively more flexible than the two pairs adjoining said central pair on either side, the said two adjoining pairs consisting of relatively thicker gauge metal than the central pair and being in turn relatively more flexible than the two connected pairs adjacent thereto on each outer side, the said last mentioned pairs consisting of two laminated layers of metal, each layer corresponding substantially in gauge to that of the first mentioned central pair of diaphragms, and outer end diaphragms consisting of two laminated layers of metal of which one layer substantially corresponds in gauge to that of the central pair and the other layer substantially corresponds in gauge to that of the second mentioned pairs of diaphragms.

2,657,075
METALLIC BELLOWS
Daniel P. Schwester, East Orange, and John J. Phillips, West Orange, N. J., assignors, by mesne assignments, to Titeflex, Inc., Newark, N. J., a corporation of Massachusetts
Application July 12, 1951, Serial No. 236,232
2 Claims. (Cl. 285—90)



1. A metallic bellows structure adapted for connecting two relatively movable parts to form a flexible and expansible fluid-tight joint therebetween, said bellows structure comprising, in combination, a plurality of connected diaphragm units each of which consists of two dished annular diaphragm elements of the same outside diameter and each having an inner margin forming a central aperture which is of a greater diameter in one of said elements than in the other element of the pair, the outer margins of both members of a pair being united fluid-tight entirely around the outer margins of both members to the outer margins of an adjacent oppositely facing pair, and the inner margin of each member of the first pair being united fluid-tight around its margin solely to the inner margin of the corresponding member of another adjacent oppositely facing pair.

2,657,076
FLEXIBLE JOINT FOR TUBES
Wilson G. Hubbell, San Diego, Calif., assignor to The Ryan Aeronautical Co., San Diego, Calif., a corporation of California
Application May 19, 1950, Serial No. 163,013
4 Claims. (Cl. 285—91)



1. In a flexible joint for tubes, a spheroid joint member of hollow construction, having an annularly recessed spheroid portion in its outer side, a resilient annular flexible heat-resistant metal sealing ring having its opposite end portions bearing in said annularly recessed portion, a second sealing ring annular in form, and having its opposite ends spaced from the opposite ends of said first-mentioned sealing ring, and bearing against said first-mentioned sealing ring at the middle portion thereof, and a spheroid socket member surrounding said sealing rings and said spheroid joint member, and provided with a diametrically enlarged recessed portion opposed to said annularly recessed portion in which said second-mentioned sealing ring is disposed.

2,657,077
FLARELESS SLEEVE CONNECTOR HAVING FORWARD CONTRACTIBLE RING END PORTION AND REARWARD SPRING FINGERS
George V. Weedling, Cleveland, Ohio
Original application June 20, 1947, Serial No. 755,833. Divided and this application June 11, 1949, Serial No. 98,468
1 Claim. (Cl. 285—123)



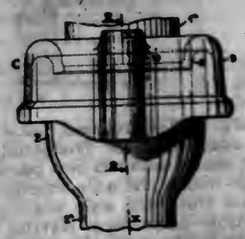
In a tube coupling having a cam member provided with an annular cam surface of a given angle relative to the axis thereof, a hardened and resilient sleeve substantially longitudinally non-compressible adapted to be inserted over and contracted about the end of a tube having a given wall thickness, said sleeve comprising a continuous annular body having a first end and a second end with a substantially cylindrical bore extending therethrough to receive the tube, said sleeve having at a point near said first end an external annular groove, the section of the sleeve in advance of said external groove near said first end constituting a readily contractible portion and the section in rear of the external groove constituting a substantially non-contractible portion, said contractible and non-contractible portions contactable with said internal annular cam surface at first and second points of contact, respectively, a tube biting portion on said contractible portion of said sleeve disposed generally radially inwardly from said first contact point, the distance between said points of contact multiplied by the sine of said given angle being considerably less than said wall tube thickness, whereby said bore or said sleeve is forced into a tapered condition to cause said tube biting portion to dig into the surface of the tube wall a distance considerably less than the thickness of the tube wall.

2,657,078
GASKET SEAL FOR PIPE JOINTS
John R. Virgil, Downers Grove, Ill.
Application August 19, 1949, Serial No. 111,238
2 Claims. (Cl. 285—182)



2. In a pipe fitting of the type including an internally threaded body for receiving a pipe and a split anchor ring having spaced apart ends and adapted to be forcibly engaged with an external diameter of said pipe upon pressure against an end of said body by a clamping nut threadedly engaging said body, the combination of a sealing gasket comprising an annular body of resilient material, said body being transversely and obliquely split to provide contiguous overlapping end portions which are separable to permit disposition of said body around said pipe between said end of said fitting body and said anchor ring, and a gate portion extending axially from said annular body at a point substantially opposite said contiguous end portions for gating the space between said ends of said anchor ring, said gate portion having an axial width at least as great as that of said anchor ring, whereby said gasket is uniformly forced into sealing engagement with said end of said fitting body and said pipe by said anchor ring and said clamping nut.

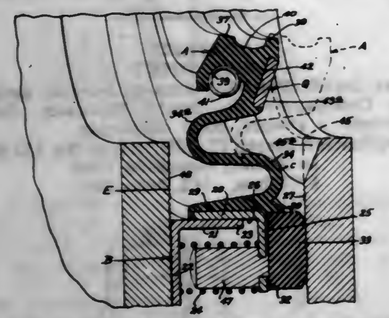
2,657,079
PIPE JOINT
Pierre David, Pont-a-Mousson, France, assignor to Compagnie de Pont-a-Mousson, Nancy, France, a French body corporate
Application March 29, 1950, Serial No. 152,691
In France March 30, 1949
4 Claims. (Cl. 285—104)



1. A flexible pipe joint comprising a spigot and a bell for receiving said spigot, said bell being

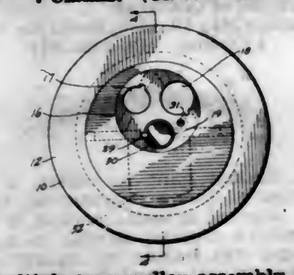
adapted to deviate angularly relatively to the axis of said spigot; an annular recess on the internal wall of said bell near the mouth end of said bell and having a substantially ovid shape; an external hooking flange on an intermediate portion of said bell, said flange sloping outwards toward the plane of the mouth of said bell and forming an obtuse angle with the portion of said bell adjacent said intermediate portion; a counter-flange consisting of an annular body slidably mounted on said spigot, a resilient outer skirt concentric with said body, and an intermediate part connecting said annular body with said skirt; a resilient washer in said recess between said spigot and said annular body; longitudinal tightening bolts passing through said intermediate part and between said bell and said skirt, the head of each bolt on the bell side having a hooking nose provided with a sloping surface conjugated with said hooking flange and adapted to slide over the latter; each said head further having a reaction heel diametrically opposed to said sloping surface and resting against the internal surface of said skirt; nuts screwed on said bolts and resting against the external surface of said intermediate part for tightening said annular body against said washer, the resting surface for said nuts on said intermediate part being a dihedral surface having an obtuse angle and a rounded edge located in the plane that passes through the axis of the bolt and on respective sides of which the hooking nose and the heel of said bolt are located; the slopes of said hooking flange and of said sloping surface relative to the longitudinal axis of the bolt, and the positions of the resting centers of said sloping surface on said hooking flange and of said heel on said skirt being such that the perpendiculars raised at said centers to the corresponding surface of said hooking flange and said skirt intersect each other on the longitudinal axis of said bolt near the end of its head.

2,657,080
SEAL FOR RAILROAD JOURNALS
Lloyd A. Johnson, Woodside, and Ezra D. Mosher and Clifford A. Stephens, Palo Alto, Calif., assignors to National Motor Bearing Co., Inc., Redwood City, Calif., a corporation of California
Application February 9, 1953, Serial No. 335,628
7 Claims. (Cl. 286—6)



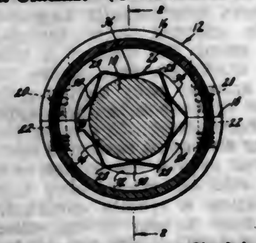
1. A unitary, self-contained, axle seal for a journal box adapted to be frictionally self-supported in the space between two parallel walls of a slot through which the axle extends in a plane normal to said slot, said axle sealing device including a flexible diaphragm having an axle receiving opening in the central portion thereof and a rim supporting portion including expansion means carried by said rim portion, manually releasable means for restraining said expansion means for free sliding movement of said rim within said parallel walled slot, whereby upon positioning of said diaphragm within said walled slot while supported on said axle said rim portion may be expanded into anchoring engagement with the walls of said slot upon release of said manually releasable means.

2,657,081
MULTIPLE BORE PULLEY ASSEMBLY
Ronald A. Jocison, Chetek, Wis.
Application January 23, 1951, Serial No. 207,366
7 Claims. (Cl. 287—52)



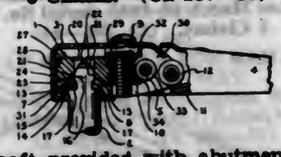
5. A multiple bore pulley assembly comprising a circular pulley having an axis of rotation and having a coaxial extension on one side thereof, said pulley and said extension having a circular opening extending therethrough with its axis spaced from and parallel to the axis of rotation of said pulley, a cylindrical hub disposed in said opening and having an axis of rotation of said hub relative to said pulley spaced from and parallel to the axis of rotation of said pulley, said hub having angularly spaced apart bores of different sizes extending therethrough with their axes spaced from and parallel to the axis of rotation of said hub and lying substantially in a cylindrical surface coaxial with the axis of rotation of said hub and including the axis of rotation of said pulley whereby the axis of any selected bore can be brought into coincidence with the axis of rotation of said pulley by rotating said hub relative to said pulley, and means acting between said pulley and said hub to releasably secure said hub in selected rotational positions relative to said pulley, said extension having a lightening recess therein at the side of the axis of rotation of said pulley remote from the axis of rotation of said hub.

2,657,082
KEYING DEVICE
Fred T. Blackman, Newington, Conn., assignor to Veeder-Root, Inc., Hartford, Conn., a corporation of Connecticut
Application April 6, 1950, Serial No. 154,327
2 Claims. (Cl. 287—52.04)



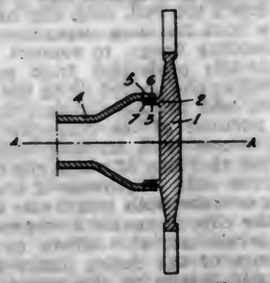
2. In combination with a cylindrical shaft and a separable member having an aperture for receiving said shaft in close fitting relation and an internal annular recess adjacent said shaft, a generally C-shaped resilient metallic strip extending around said shaft and bent in opposite directions substantially throughout its length to provide a series of crests alternately extending in opposite directions toward and away from said shaft, the outwardly directed crests of said strip engaging the inner wall of said annular recess within said member and being compressed thereby to bias the inwardly directed crests of said strip toward said shaft, a sharp-edged projection extending inward from each inwardly directed crest of said strip and engageable in scoring relationship with said shaft to key said strip against movement relative thereto, the portions of said strip between said outwardly directed crests defining a plurality of V-shaped spaces, and a V-shaped projection complementary to said V-shaped spaces and extending from the inner wall of said annular recess in said member toward said shaft and selectively disposable within one of said V-shaped spaces to lock said member against rotative movement relative to said strip.

2,657,083
COUPLING MEANS
Fred A. Krohm, Gary, Ind., assignor to Productive Inventions, Inc., a corporation of Indiana
Application December 13, 1945, Serial No. 634,805
6 Claims. (Cl. 287—53)



2. A shaft provided with abutment means, a pair of substantially semi-cylindrical parts receiving and substantially surrounding said shaft, at least one of said parts having a portion adapted to engage the abutment means whereby to prevent rotation of the part with respect to the shaft, a single element carried by and holding the parts assembled and permitting the parts to spread apart when being connected to the shaft, and means substantially housing the parts for holding the portion and abutment means in interlocking relation.

2,657,084
ELASTIC CONNECTING DEVICE FOR ELASTIC FLUID MACHINES
Oscar Anton Wiberg, Finspong, Sweden
Application May 21, 1948, Serial No. 28,354
In Sweden May 29, 1947
1 Claim. (Cl. 287—103)



In an elastic fluid turbine the combination of a turbine disc, a tubular shaft member coaxial therewith, an axially projecting flange on the surface of the turbine disc facing the end of said shaft member, said annular flange and the end of said shaft member being normally of the same diameter and both being coaxial with the turbine disc and shaft, the opposing edges of said flange and said shaft member each being formed with at least three circumferentially spaced projections of such a shape as to allow the projections of each of said edges to fit snugly in the spaces between the projections of the opposite edge for locking the turbine disc and the shaft member against rotary movements with relation to each other, the projections having circumferentially enlarged heads and the spaces between them having similarly enlarged portions for receiving the heads of the respective projections with a resulting locking of the turbine disc and the shaft member against axial movements with relation to each other, while allowing a relative change of the diameters of the flange of the turbine disc and the shaft member sufficient for bringing their projections into interlocking mesh with each other.

2,657,085
DOOR LATCH
Arnold A. Dedoes, Berkley, Mich.
Application March 20, 1946, Serial No. 655,753
2 Claims. (Cl. 292—169)



1. A door latch comprising a pair of spaced mounting plates, a bolt, means on one of said plates for guiding the bolt in a substantially rectilinear travel, an actuator, means pivoting the actuator on the other of said plates to turn about an axis substantially parallel to the bolt travel, a tongue on the actuator having a cam reaction with the bolt to retract the bolt, and means for interconnecting said plates and thereby clamping them against inner and outer faces of a door.

2,657,086
WINDOW LOCK
Robert L. Sweet, Kansas City, Mo.
Application January 29, 1951, Serial No. 208,329
1 Claim. (Cl. 292—175)



In a lock assembly for window structures having a pair of sliding sashes, the side rails whereof overlap varying amounts as the sashes are relatively shifted, a toothed rack adapted to be carried by one of the overlapping side rails, and a counterbored hole through the other side rail; a latch mechanism in the hole and adapted to cooperate with the said rack in preventing relative sliding movement of the sashes, comprising a tubular housing having a restricted end for a portion of the length and contoured to fit the counterbored hole and to present a shoulder ad-

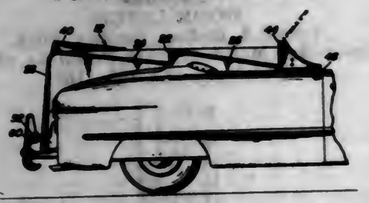
jacent one end thereof, the inside diameter of the housing between the proximal end thereof and the shoulder being substantially less than the inside diameter of the housing between the shoulder and the other end of the housing, a perforated closure for the said other end of the housing, a reciprocable plunger mounted in the housing with the perforation of the closure and the restricted end of the housing serving as bearings therefor, a shoulder on the plunger abutting the shoulder of the housing to limit the movement of the plunger in one direction with one end of the plunger in the latching position behind a tooth of the rack, a spring coiled about the plunger between the shoulder thereon and the closure for the said other end of the housing, and a knob on the other end of the plunger, exteriorly of the housing.

2,657,867

FLORAL DISPLAY ATTACHMENT FOR VEHICLES

John V. Morris, Plymouth, Pa.

Application July 3, 1950, Serial No. 171,849
4 Claims. (Cl. 296—21)



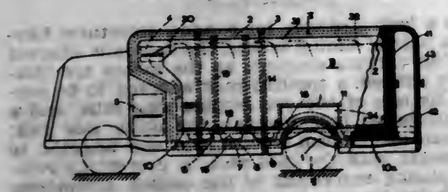
1. A display container for mounting on a convertible vehicle comprising container means including inclined bottom walls, means for removably mounting said container means on a conventional vehicle body including transverse walls and side walls rigidly secured to said container bottom walls, said walls forming closed bottom trays, a rear apron secured to said container side walls, said apron extending over and concealing the rear of said vehicle body, bracket means rigidly attaching said apron to the vehicle, the bottoms of said side walls and the edges of the apron being contoured to merge with the contour of the vehicle body, resilient means clamping said side walls against the vehicle body, drainage conduits connected to said container means at the low points of said inclined bottom walls.

2,657,868

HEAT INSULATING BODY STRUCTURE FOR ISOTHERMAL AND/OR REFRIGERATOR VEHICLES

Paul Georges Clément, Paris, France

Application March 2, 1948, Serial No. 12,674
In France March 24, 1947
4 Claims. (Cl. 296—24)



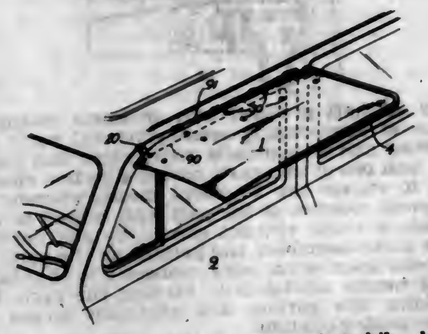
1. In an insulated automotive vehicle body including a chassis therefor, the combination of a pair of stringers secured on said chassis lengthwise thereof and providing spaced supports thereon in transverse alignment, a metallic sheet fitted on said supports in a plane substantially below the top faces thereof to provide an external floor for said body, a plurality of cross-members secured on said supports transversely of said stringers, a plurality of rectangular carline members secured to the opposite ends of said cross-members in upstanding bridging relation forming an inner framework on said chassis, a sheet metal shell secured interiorly of said framework, a metal plate secured on said cross-members forming a floor for said inner shell, a plurality of layers of insulating material between said body floor and said shell floor, an outer framework comprising a plurality of upstanding rectangular carline members disposed in spaced parallel relation mounting a sheet metal exteriorly thereof, a plurality of oppositely disposed bracket members secured to said chassis in offset relation thereto supporting said outer framework independently of and in spaced relation to said inner framework, and a plurality of layers of insulating material between said inner shell and said exterior shell in continuation of said first named layers of insulating material.

2,657,869

WEATHER SHIELD FOR AUTOMOBILE WINDOWS

Arthur A. Kaul, Chehalis, Wash.

Application March 10, 1952, Serial No. 275,753
2 Claims. (Cl. 296—44)



1. A weather shield for an automobile door such as is formed with an upstanding flange across its top rail, said sun shield comprising a stiff sheet of cuttable material, of a length approximating that of the door's top rail, and of lesser width, for disposition with one of its longer edges alongside the top rail, and generally projecting thence laterally, a plurality of elongated, laterally directed clips for mounting said sheet in such disposition, and spaced one from another along the door's top rail, each clip having at its inner end a hook for snug engagement over the door's upstanding flange, to support the clip in position laterally projecting from such flange, studs received in and spaced along the inner edge of the sheet, and passing through the laterally projecting portions of the respective clips, the clips being formed with an inner and an outer stud-receiving aperture, of which the inner aperture is oversize only lengthwise of the clip, and the outer is oversize both lengthwise and transversely of the clip, to enable divergence of such clips from parallelism with others, to accommodate curvature of the door's flange as seen in plan view, and means on the upper and lower ends of the studs constituting heads to clamp between them the clip and the sheet.

2,657,890

COMBINATION DIFFUSER DEVICE AND ARTICLE SUPPORTING BASE

George W. Meek, Pelham, N. Y., assignor to Airkem, Inc., New York, N. Y., a corporation of New York

Application July 10, 1952, Serial No. 298,140
14 Claims. (Cl. 299—24)



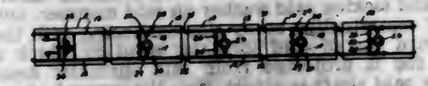
1. A combination diffusing and article supporting device comprising a base part having a top wall, a side wall having a plurality of apertures therein, and means accessible through the bottom of said base part for detachably supporting a container of volatilizable material therein, means on the top wall for engaging and positioning articles supported thereon, and means movable with respect to the top of said device and having a plurality of spaced members overlying the side wall thereof for selectively covering and exposing the apertures in said side wall.

2,657,891

SPRAY APPARATUS FOR RAILROAD RIGHTS OF WAY

John P. Quarles, Huntington, W. Va.

Application October 27, 1951, Serial No. 253,501
11 Claims. (Cl. 299—31)



1. In railway spray apparatus, a plurality of tank cars, a car on which spray guns are mounted, dual conduit means connecting all the cars, one of said conduit means being connected to one part of each of said tank cars and the other to another part thereof, pump means on the car on which the spray guns are mounted for withdrawing liquid selectively from said tank cars through a selected one of said conduit means and delivering it under pressure to the spray guns, said pump means having a capacity greater than that required for said spray guns, means disposed between the pump means and the spray guns to inject concentrated chemicals into the liquid, and means to deliver the excess liquid delivered by said pump means into the other of said conduit means to recirculate it in said selected tank cars.

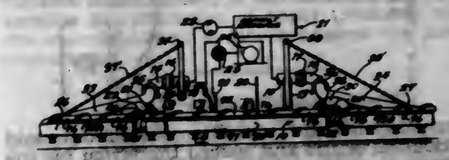
2,657,892

APPARATUS FOR SPRAYING HOT LIQUIDS SUCH AS ASPHALTIC EMULSIONS ON ROADWAY SURFACES

Paul E. Jones, Downey, Calif.

Application September 28, 1950, Serial No. 187,237
3 Claims. (Cl. 299—34)

1. Liquid spraying apparatus comprising: a tubular spreader bar; a plurality of cylindrical valve bodies extending across the interior of the spreader bar and spaced from opposite sides of said bar to provide passages for liquid around said valve bodies, said valve bodies having tapered bores open at one end; spray nozzles secured at the open end of said valve bodies; tapered valve members fitted in the tapered bore of the valve bodies; the valve members having an inside bore open at the end toward the spray nozzles mounted in the body and closed at the opposite end, said valve bodies and valve members having registrable openings in the walls thereof; operating stems projecting axially from the closed ends of the valve members; handles



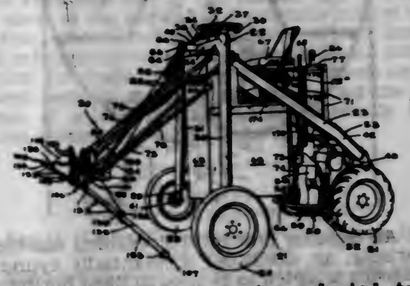
pivotally mounted on the operating stems; an operating member effective to move the handles of the valve members in unison; and resilient means effective to both hold the valves in sealing engagement with the valve bodies and to normally hold the valve handles engaged with said operating member, the pivotal connection of the handles with the valve enabling any valve to be disconnected from the operating member.

2,657,893

PLANT SPRAYING MACHINE

Joseph B. Kucera, Traer, Iowa, assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware

Application April 27, 1950, Serial No. 158,578
16 Claims. (Cl. 299—42)



1. In a spraying apparatus adapted to be mounted on a supporting vehicle, a fixed support, a pair of spray boom sections adapted to be mounted for vertical swinging movement on the vehicle, a boom suspension element mounted above each boom section, a flexible anchor mounted between said suspension elements and secured to said support, and a pair of cable like support members having their inner ends attached to said flexible anchor and having the outer end of each attached to one of said boom sections, an intermediate portion of each cable like support member passing over one of said suspension elements normally to provide equalized balanced support for said boom sections on said vehicle.

2,657,894

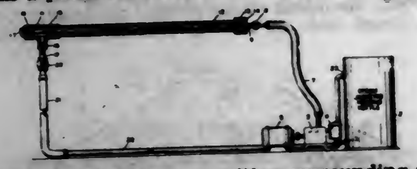
RECIRCULATION SYSTEM

Washington H. Phillips and George E. Gard, Lancaster, Pa., assignors to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

Application November 17, 1950, Serial No. 196,136
7 Claims. (Cl. 299—58)

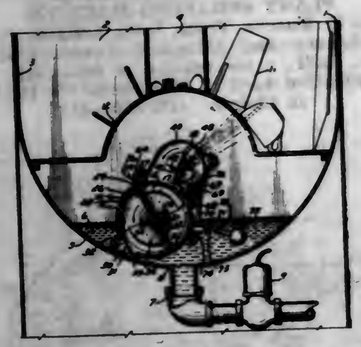
1. In apparatus of the class described, the combination of a container for the bulk supply of

material to be distributed, a circulatory system including a distribution conduit having an inlet opening, a distribution orifice, and a discharge opening therein, a discharge sleeve in communication with said discharge opening and movable with respect to said conduit to bring said sleeve from a position remote with respect to said dis-



tribution orifice into a position surrounding said distribution orifice and spaced therefrom for the delivery of material therefrom directly into said sleeve, a return line to said bulk supply from said discharge sleeve, and means for continuously circulating material through said system.

2,657,095
IMPELLER ASSEMBLY FOR DISHWASHERS
Lewis A. James and Duane A. James, Independence, Kans.
Application June 8, 1950, Serial No. 166,804
12 Claims. Cl. 299—63)



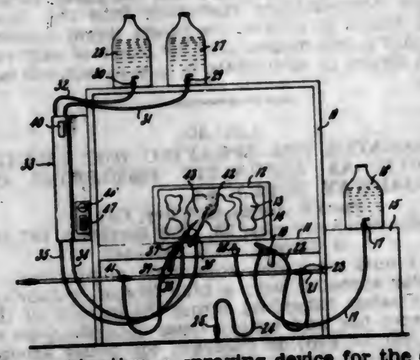
11. An impeller unit for dishwashing machines comprising, an elongated substantially cylindrical housing adapted to be used in fixed horizontal position with the lower portion below the level of liquid used in washing dishes, said housing having substantially diametrically opposite openings extending longitudinally thereof, one of said openings being in the lower portion of the housing and forming a liquid inlet and the other a liquid discharge opening, an impeller shaft rotatably mounted in the housing substantially on the longitudinal axis thereof, impeller blades fixed on the impeller shaft extending longitudinally thereof for discharging liquid through the discharge opening of the housing in response to rotation of the impeller shaft, said blades being in the form of a spiral about said shaft, an elongated baffle substantially coextensive with the impeller blades and parallel thereto, said baffle being on a spiral reversely to the spiral of the impeller blades, means on the housing mounting the baffle for rotation about an axis spaced above and aligned with the discharge opening of the housing whereby liquid discharged through said opening substantially tangentially of the housing is directed in a stream against the baffle, means for rotating the baffle for deflecting the stream of liquid and providing a sweeping action thereto, a flat valve hingedly mounted on the housing at one side of the discharge opening thereof for opening and closing said discharge opening, stop means for limiting opening of the valve whereby said valve forms a tangential extension of the housing and extends toward the baffle, and means responsive to the level of liquid around the exterior of the housing for operating said valve closing the discharge opening in the housing when the level of liquid relative to the inlet opening is inadequate to supply a suitable quantity of liquid to the impeller.

2,657,096
COMBINED HOSE AND SPRINKLER HEAD HOLDER
Joseph G. Holmes, Downey, Calif.
Application June 24, 1950, Serial No. 170,179
2 Claims. (Cl. 299—75)



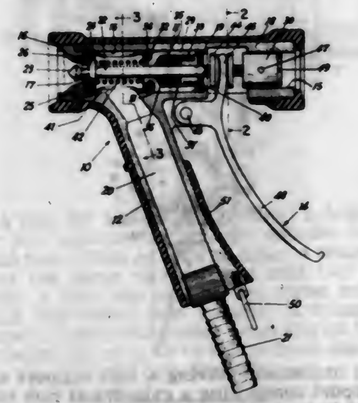
1. A device of the class set forth, comprising, a hose having its end provided with a threaded male coupling member, a comparatively thin annular anti-leak washer placed over said threaded member and having an integral supporting shaft of a thickness substantially equal to the thickness of said washer, an internally threaded sprinkler head engaged on said coupling member and locking said washer on said member, and fluid commingling spray tips connected with the forward end of said sprinkler head by which a fine fog is projected from said sprinkler head while said shaft is struck into the ground at an angle suitable to direct said fog in desired direction and said washer serving to produce an anti-leak connection between said sprinkler head and said coupling member.

2,657,097
PROCESS AND MEANS FOR METALLIZING NONCONDUCTIVE BASES
Fred M. New, New York, N. Y.
Application September 2, 1949, Serial No. 113,724
1 Claim. (Cl. 299—86)



In combination, a spraying device for the discharge of atomized liquids, respectively consisting of a metallic solution and a reducing solution mixed together before impingement on a surface to be coated, an electrically operated and thermostat-controlled heater including a heater block, respective containers from which said liquid solutions are fed in cold state and by gravity, said heater being disposed intermediate said containers and said spraying device and being equipped with two separate elongated conduit means extending substantially parallel to each other through said heater block to permit passage of separate liquid flows through said heater block and at a temperature avoiding volatilization of said liquid solutions, said spraying device being provided with converging nozzles, respective hose means removably connecting said containers with said conduit means at one end of said heater block and detachably connecting said spraying device with said conduit means at the other end of said heater block, and a supply line for air atomizing said liquid solutions in said nozzles before said liquid solutions are mixed together adjacent said surface whereby the temperature of said mixed atomized liquid solutions is lowered to a degree required for said surface coating and substantially below that of said liquid solutions flowing from said other end of said heater block so that reduction of said metallic solution to the respective metal of said solution occurs uniformly and evenly.

2,657,098
SPRAY NOZZLE
Dietrick Strahman, Livingston, N. J., assignor to Klingerit, Inc., New York, N. Y., a corporation of New York
Application November 9, 1950, Serial No. 194,877
8 Claims. (Cl. 299—131)



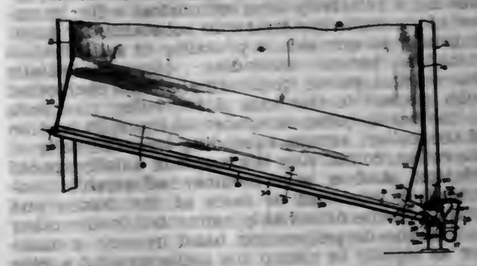
1. A combined valve and water spray nozzle, comprising: a generally T-shaped housing having a horizontal bore portion and a pistol-grip portion intersecting the horizontal bore portion between its ends, the horizontal bore portion having a generally cylindrical passage formed therein and terminating at its forward end in a valve seat and nozzle, a metering pin axially located within the passage, a valve member mounted on the forward portion of the metering pin, the metering pin being mounted for axial movement within the passage and biased forwardly to seat the valve member against the valve seat, a collar threadedly engaged about the rear portion of the metering pin, an inlet passage in the pistol-grip portion intersecting the passage within the horizontal bore portion, an operating lever pivotally mounted on the housing adjacent the intersection of the horizontal bore portion and the pistol-grip portion and having an arm extending generally parallel and in spaced relation to the rear side of the pistol-grip portion and a second portion operatively engaged with the collar to move it rearwardly upon moving the arm towards the pistol-grip portion of the housing, the collar being adjustable longitudinally of the metering pin to determine the character of spray produced when the operating lever is moved against the pistol-grip portion.

2,657,099
PLASTIC WHEEL STRUCTURE
John S. Judd, Birmingham, Mich., assignor to Lyon, Incorporated, Detroit, Mich., a corporation of Delaware
Application October 27, 1948, Serial No. 56,779
5 Claims. (Cl. 301—37)



1. As an article of manufacture a trim for an automobile wheel comprising a circular member of dished cross-sectional shape having at least one edge portion turned laterally therefrom, said member comprising an outer layer of transparent synthetic plastic, a deposit on the under side of said plastic forming a mirror visible through and from the outer side of the plastic and terminating short of the edge of said laterally turned edge portion, and a protective coating on said deposit and extending beyond the same onto said turned portion for sealing the edge of the deposit on the turned portion, said turned portion and the terminus of said deposit being substantially concealed behind a portion of the trim.

2,657,100
SELF-UNLOADING BIN
Leo G. Weller, Catasauqua, Pa., assignor to Fuller Company
Application May 17, 1952, Serial No. 288,396
11 Claims. (Cl. 302—29)



1. Apparatus for conveying pulverulent material comprising a bin having a body portion and a discharge port in its lower portion, a first gas-permeable member forming at least a portion of the bottom of said bin and having an upper material-conveying surface, inclined walls extending between said body portion and the adjacent sides of said gas-permeable member to direct material in said body portion onto said material-conveying surface, a plenum chamber extending along and below said gas-permeable member, means for introducing a gas into said plenum chamber to pass through said gas-

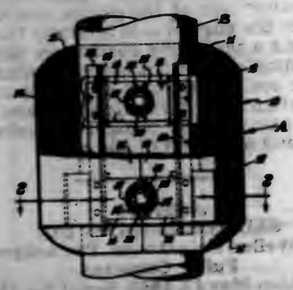
permeable member and into material on the material-conveying surface thereof to aerate such material, said gas-permeable member being inclined with respect to the horizontal and having its lowermost end positioned opposite said discharge port, a transport line adapted to have an air stream flow therethrough to convey material from said bin to a remote location, a duct extending between said discharge port and said transport line, a second gas-permeable member mounted between opposite side walls of said duct and extending in a generally-inclined direction, a second plenum chamber formed between the lower surface of said second gas-permeable member and the bottom wall of said duct, the passage between the upper surface of said second gas-permeable member and the top wall of said duct being connected to said transport line, and means for introducing gas into said second plenum chamber to pass through said second gas-permeable member and into material on the upper surface thereof to aerate such material.

2,657,101

PROTECTIVE COLLAR FOR DRILL PIPES

William J. Williams, Odessa, Tex., and James W. E. Hanes, Ventura, Calif., assignors to Ventura Tool Company, Ventura, Calif., a corporation of California

Continuation of application Serial No. 151,921, March 25, 1950. This application November 2, 1951, Serial No. 254,588
18 Claims. (Cl. 308—4)



1. A protective collar of the class described, including a relatively long cylindrical collar member of yieldable material split substantially longitudinally at one side, a plurality of split flexible metallic bands extending circumferentially thereof and spaced longitudinally from each other with respect to the axis of the collar, the ends of the bands being separated at the split portion of the collar, straps, extending longitudinally of the collar, connecting the bands in axially spaced relation, and a lock member adjustably connected to one end of each of the bands and adapted to be detachably connected to the other end of the corresponding band in such a manner as tightly to clamp the collar around a pipe at each of the bands.

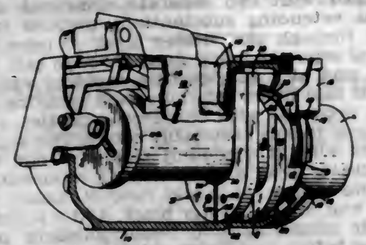
2,657,102

GUARD BEARING

Lloyd A. Johnson, Woodside, Calif., assignor to National Motor Bearing Company, Inc., Redwood City, Calif., a corporation of California

Application April 28, 1953, Serial No. 351,765
11 Claims. (Cl. 308—38)

1. In a journal box for railway trucks having a box with a bottom, side walls, a front wall with an opening and a slotted opening in the back wall, with an axle extending into the box through the latter opening, the improvement which includes in combination with said axle and box, a guard bearing member for the axle having an arcuate bearing surface facing toward the axle and spaced from the latter by a radial distance which is less than the radial distance between said axle and the slotted opening in the back wall of said box



through which the axle extends, and including a supporting body having an arcuate surface portion bearing on the bottom of the journal box directly below the axle and an arm portion bearing on the side of the journal box opposite a side of the axle, whereby any radial movement of said axle toward said guard bearing member will be stopped by said guard bearing member with said axle out of contact with said slotted back wall.

2,657,103

BEARING FOR DISK TOOLS

Merrill C. Kincaide, Detroit, Mich., assignor to Dearborn Motors Corporation, Highland Park, Mich., a corporation of Delaware

Application March 25, 1950, Serial No. 151,939
1 Claim. (Cl. 308—181)



In an implement having a tool support bar, a disc support comprising a cylindrical hub having an axial bore and opposed outer radial faces, a disc shaft projecting axially into said hub bore for disposing the hub on said bar, axially aligned bearing units interposed in said bore between said hub and said shaft with the axially inner bearing faces in intimate contact with one another within said bore and having their axially outwardly directed opposing faces dirt-sealed, a pair of inwardly dished cups of relatively thin cross-section, each of said cups having an intermediate axially extending portion press-fitted between and in direct intimate contact with the exterior of one of said bearing units and the inner wall of said hub respectively, said cups having centrally apertured radially directed inner flanges interposed between said bearing units terminating in closely spaced relation to the contacting inner faces of said bearing units to receive said

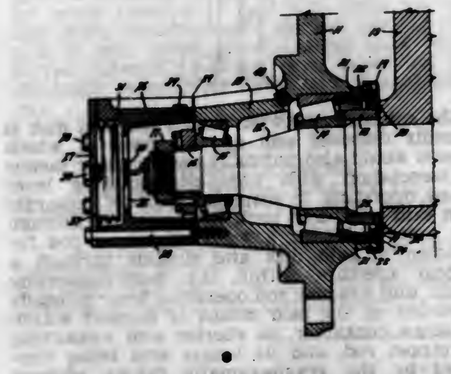
shaft therethrough and terminal radially outwardly directed flanges overlying the associated radial face of said hub, an annular seal ring interposed between each of said outwardly directed flanges and the adjacent radial face of said hub, and clamping means on said shaft acting on said bearing units to urge the same toward one another, thereby retaining the inner faces of said bearing units in intimate contact and said seal rings in snug contact with the respective hub radial faces, whereby the inner faces of said bearings are dirt-sealed by the multiple sealing effects of said seal rings, the press-fit of said cups between said hub and bearing units, said cup inner flanges, and the contacting bearing inner faces.

2,657,104

WATER SEALING DEVICE FOR AUTOMOTIVE WHEELS

Allan J. Kayser, Denver, Colo., assignor of fifty per cent to Maurice L. Kuriand, forty per cent to Grace K. Israel, and ten per cent to Rosalind L. Kayser, all of Denver, Colo.

Application May 10, 1951, Serial No. 225,646
2 Claims. (Cl. 308—187.1)



1. A hub for wheels, comprising: a hollow, tubular hub surrounding an axle spindle; bearings in said hub riding on said spindle; a sealing ring sealing the inner extremity of said hub to said spindle; a hub cap sealing the outer extremity of said hub about said spindle; a compressible chamber in said hub sealed from the oil therein; and means allowing air to escape from said chamber as the oil in the hub expands.

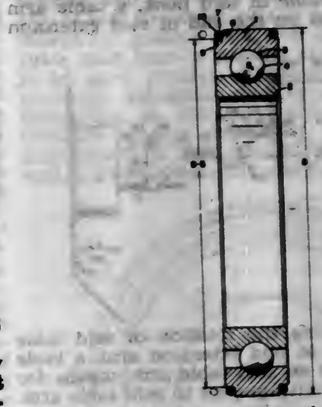
2,657,105

BEARING CONSTRUCTION

Frank H. Stearns, Meriden, N. H., assignor to Split Ballbearing Corporation, Lebanon, N. H., a corporation of New Hampshire

Application August 28, 1952, Serial No. 306,751
4 Claims. (Cl. 308—196)

1. A bearing structure comprising inner and outer metal race rings, a plurality of bearing elements disposed within and between said rings, the outer ring being fractured radially so as to provide a pair of abutting broken ends, said outer ring having been hardened prior to its fracture so that its broken ends are normally positioned in intimate interlocking mating relation with each other by the inherent resiliency of the hardened metal, and a rigid annular member mounted on said outer ring for locking the broken ends thereof together, said locking member being disposed



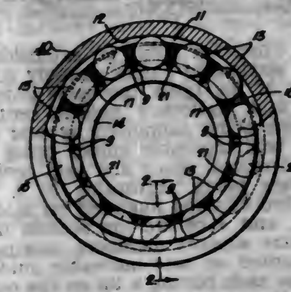
entirely within the outer periphery of said ring and being held in tension.

2,657,106

ONE-PIECE ROLLER BEARING CAGE

Louis R. Lovell and James E. West, Jr., Philadelphia, Pa., assignors to SKF Industries, Inc., Philadelphia, Pa., a corporation of Delaware

Application April 25, 1951, Serial No. 222,864
3 Claims. (Cl. 308—217)



1. A one piece cage for roller bearings consisting of an annular body member having a circumferential series of radial rectangular pockets intersecting the inner and outer peripheries of the said member, said member having also a series of fingers projecting radially from one periphery between the respective adjoining pairs of pockets, opposite walls of said pockets having concaved recess extending between the outer and inner ends of the pockets and into the faces of the fingers which confront the pockets, said recesses terminating short of the ends of the fingers so as to leave tangs at said ends projecting into the bores of and obstructing the proximate ends of the pockets.

2,657,107

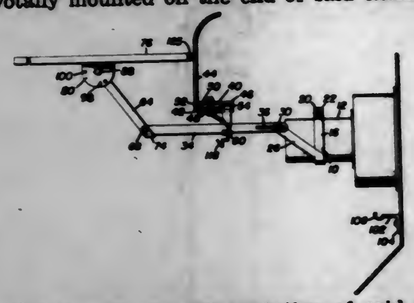
FOLDING TRAY STRUCTURE FOR AUTOMOBILE INSTRUMENT PANELS

Theodore Bisaga and Dorothy Pecseniuk, Detroit, Mich.

Application November 26, 1951, Serial No. 258,606
11 Claims. (Cl. 311—21)

1. A tray for mounting in a vehicle comprising a pivot anchored on said vehicle under the instrument panel, an extension arm pivotally and slidably mounted on said pivot, an arm holding

clamp mounted on the instrument panel of said vehicle, a depending hook on said clamp, said arm being receivable in said hook, a table arm pivotally mounted on the end of said extension



arm, a stop limiting the rotation of said table arm with respect to said extension arm, a table pivotally mounted on said table arm, means for locking said table with respect to said table arm.

2,657,108

MEANS FOR RAISING AND LOWERING A CENTER LEAF IN EXTENSION TABLES

Cécile Lallier nee Leblanc, Granby, Quebec, Canada

Application December 14, 1951, Serial No. 261,720
4 Claims. (Cl. 311—46)



1. In an extension table, an extension device comprising stationary guides suitably supported by the legs of the table, moveable guides supported by said stationary guides, centre support members being supported by said stationary guides, said moveable guides being adjustable in a horizontal plane and said centre support members being adjustable in a vertical plane, end top sections mounted on said moveable guides, and a centre top section mounted on said centre support members, locking strips slidably mounted on said moveable guides, said locking strips each having a lip on the outer end thereof for engagement with a projection on each of said moveable guides as the latter are extended outward to their extreme position, means on the inner ends of said locking strips for engaging each of said centre support members, spring members mounted on said stationary guides and tending to raise said centre support members, said locking strips in co-operation with said moveable guides and said centre support members releasing the latter upon extension of said end top sections, thereby raising said centre top section in the space left between said end top sections for providing a lengthened table top, and upon said centre top section being depressed to permit the closing of said end top section said locking strips once again engaging said centre support members and accordingly retaining the latter in a lowered position resulting in a shortened table top.

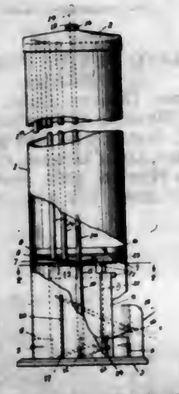
2,657,109

DISPENSER FOR DRINKING STRAWS

Theodore R. Reece, Calgary, Alberta, Canada

Application July 20, 1950, Serial No. 174,905
In Canada August 8, 1949
1 Claim. (Cl. 312—78)

In a drinking straw dispensing device as described, of the vertical straw-container type, to hold a plurality of tubular drinking straws for single straw-dispensing, and with a dome-shaped cover having a straw-passaging central aperture therethrough, resilient and flexible straw-retaining and straw-restraining bars projecting more or less horizontally into said aperture for suspension of any sized tubular drinking straw following its partial ejection therethrough, a straw-carrying disk dished slightly downwardly towards its center, and fitting loosely within the container in a more or less horizontal position, an apertured neck in the center of said disk projecting downwardly, and resting normally on a means of support within the straw container, a pair of rings fitted peripherally within and around the interior



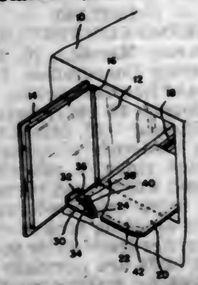
of the container between which the said disk is spacedly disposed and on the lower of which rings it would also normally rest, plunger means in association with hand-manipulating lever means operating to dispense a straw upwardly from said apertured neck and partially through said cover aperture, a weighted tappet rod for agitation of said disk and slidable through a vertical aperture within the neck-supporting means, and a tappet rod operating lever pivotally supported on the said means of support within the straw container, its shorter arm supporting the tappet rod, and its longer arm being contacted by the gravitationally falling plunger means to agitate the said disk by the tappet rod for centralizing a single straw.

2,657,110

BROILER STRUCTURE

Arthur G. Feder, Detroit, Mich., assignor to Detroit-Michigan Stove Company, Detroit, Mich., a corporation of Michigan

Application June 23, 1949, Serial No. 100,929
1 Claim. (Cl. 312—274)



In a stove construction comprising an oven having a front opening and a door for said oven

hinged for swinging movement about a vertical axis at one side of the opening: a trackway in said oven extending from front to rear thereof, a tray assembly slidable horizontally on said trackway and freely removable upwardly therefrom in any position of said tray assembly on said trackway, a bracket carried by the door including a relatively wide plate extending inwardly from adjacent the bottom edge of the door and disposed to engage the underside of said tray assembly, said plate having a cam slot therein, said tray assembly comprising a transverse reinforcing bar across its front edge and a cam follower depending therefrom rearwardly from the front edge of said tray and extending into said cam slot, said cam slot having an inner arcuate portion of substantially less than 90 degrees adjacent said door concentric with the hinge axis of said door and an outer portion closed at its outer end shaped to cam said tray assembly outwardly upon opening movement of said door, the closed end of said cam slot constituting an abutment for said cam follower limiting opening movement of the door to approximately 90 degrees, the front corners of said tray being substantially relieved rearwardly to provide for initiation of outward movement of said tray without interference with the door while the door is only partly open, said cam follower being freely removable in an upward direction from said cam slot to provide for ready removal of said tray from the oven, said plate constituting a support for the outer end of said tray assembly when said tray is moved outwardly of the oven to extend substantially beyond the outer end of said trackway.

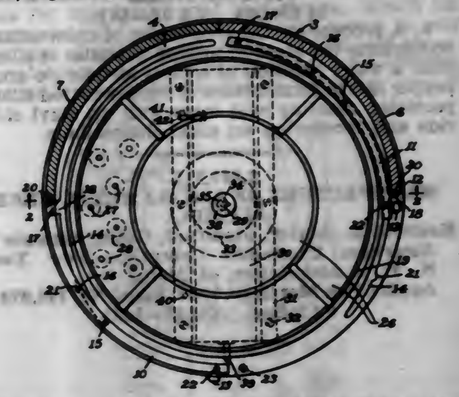
2,657,111

SLIDING CLOSURE

Sigfred P. Kjellgren, Rockford, Ill.

Application December 7, 1949, Serial No. 131,577
4 Claims. (Cl. 312—307)

1. In a cabinet providing a generally circular compartment defined within a circumferentially extending wall that has an elongated opening provided in one portion thereof affording access to the interior of said compartment, an elongated arcuate door adapted to serve as a closure for said opening and as a flush and concentric continuation of said circumferentially extending wall, and means for guiding said door in a generally arcuate path from a position closing said opening to an open position disposed inside said compartment alongside said opening, said means comprising an elongated arcuate guide groove provided in said cabinet in nearly concentric relationship to said circumferentially extending wall, a guide pin on one end portion of said door



slidable in said groove, and a combination pivot and guide pin on an intermediate portion of said door also slidable in said groove, said door being adapted to pivot relative to said latter pin in said groove in the fully closed position of said door, said cabinet having a short groove provided therein in communication with the arcuate groove near one end of the opening to accommodate said first guide pin in the closed position of the door, and another guide pin on said door between the other two pins and nearer the second named pin and slidable in said arcuate groove so as to prevent engagement of the second pin in the short communicating groove.

CHEMICAL

2,657,112

THIONATED INDOPHENOL PRODUCTS AND PROCESSES

Ewen D. Robinson and David F. Mason, Mount Holly, N. C., assignors to Southern Dyestuff Corporation, a corporation of North Carolina

No Drawing. Application February 26, 1953, Serial No. 339,011
8 Claims. (Cl. 8—37)

1. In the production of indophenol sulfurized dyestuffs the step of thionating the indophenol dyestuff components in the presence of a chemical compound selected from the group consisting of the sodium sulfonates of toluene, xylene, cymene, dimethylaniline and tetrahydronaphthalene.

6. A ready-to-dye aqueous solution of a water soluble, sulfurized, reduced, indophenol dyestuff, substantially free of insoluble materials and having a dyestuff concentration in excess of 7%, and containing a sulfide reducing agent and about 3% to 15% of a chemical compound selected from the group consisting of the sodium, potassium and ammonium sulfonates of toluene, xylene, cymene, dimethylaniline and tetrahydronaphthalene and the compounds hexamethylenetetramine, urea and thiourea.

2,657,113

FOUNDRY COMPOSITION AND METHOD

Thomas E. Barlow, Jackson, Ohio, assignor, by mesne assignments, to International Minerals & Chemical Corporation, Chicago, Ill.

No Drawing. Application February 13, 1950, Serial No. 144,037
6 Claims. (Cl. 22—188)

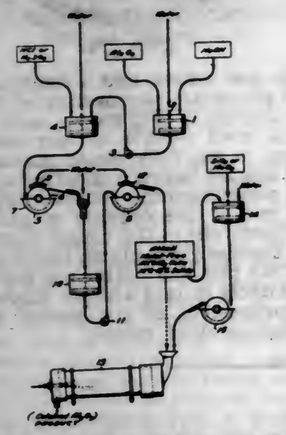
1. Method of producing a foundry core sand composition comprising admixing with sand a sufficient quantity of binder possessing thermal-setting qualities to impart required strength and hardness to the baked core, imparting improved flow qualities while relieving stickiness and the amount of required moisture by introducing into the mix a binder additive, the binder additive consisting essentially of 90% to 30% Vanadiset resin binder, 10% to 70% aromatic solvent and effective amounts up to 5% of soap emulsifier,

the Vanadiset resin binder amounting to from 10% to 50% of the combined weight of the two binders, and mixing the additive thoroughly with the sand and binder.

2,657,114
CHLOROSILANES
George H. Wagner, Kenmore, N. Y., assignor to Union Carbide and Carbon Corporation, a corporation of New York
No Drawing. Application June 21, 1949, Serial No. 100,529
14 Claims. (Cl. 23—14)

5. A process for the production of chlorosilanes comprising the steps of mixing particles of silicon with a water solution of hydrogen fluoride and a copper salt to form a mass of copper coated silicon particles, reacting said mass with an alkyl chloride and recovering an alkyl chlorosilane.

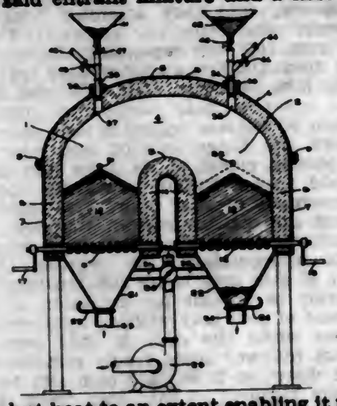
2,657,115
MANUFACTURE OF ALKALI METAL-FREE ALUMINA
Kenneth D. Ashley, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application March 10, 1950, Serial No. 148,978
5 Claims. (Cl. 23—143)



1. A method of producing an alkali metal-free aluminum hydroxide which comprises reacting an aqueous alkali metal aluminate solution with a mineral acid by simultaneously discharging separate streams of said aluminate solution and said mineral acid into a reaction vessel while so controlling the rate of discharge of said streams as to maintain the pH of the contents of said reaction vessel between 5.8 and 8.3 during the entire precipitation whereby a filterable slurry of semi-gelatinous aluminum hydroxide is obtained, and then filtering said slurry and washing the filter cake with water until an aluminum hydroxide containing less than 0.1% of alkali metal compound is obtained.

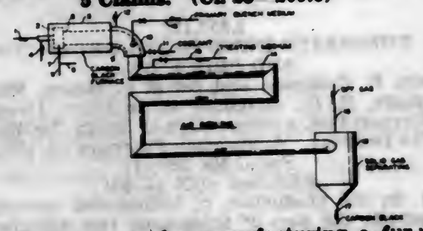
2,657,116
PROCESS FOR THE PRODUCTION OF NITROGEN OXIDES
Farrington Daniels, Madison, Wis., assignor to Wisconsin Alumni Research Foundation, a corporation of Wisconsin
Application January 28, 1949, Serial No. 73,359
4 Claims. (Cl. 23—163)

1. The process of manufacturing nitrogen oxides from a mixture comprising essentially nitrogen and oxygen, which comprises successively passing said mixture through a first bed of hot refractory pebbles to preheat said mixture, a reaction zone heated to nitrogen fixing temperatures to cause formation of nitric oxide and a second bed of refractory pebbles in relatively cool condition to chill and stabilize the nitric oxide formed in said reaction zone; reversing the direction of flow periodically whenever a second pebble bed has absorbed sufficient heat to properly preheat said entrant mixture and a first pebble



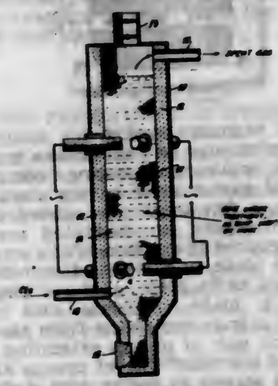
bed has lost heat to an extent enabling it to properly chill said nitric oxide, and slowly and continually removing pebbles from and adding fresh pebbles to said beds while said mixture passes through said reaction zone maintained substantially at said nitrogen fixing temperatures and the nitrogen oxides thereby produced are chilled in one of said pebble beds, to inhibit crystal growth on the pebbles within the beds and thus maintain the productivity of the nitric oxide formation process for prolonged periods of time.

2,657,117
TREATMENT FOR REDUCING THE pH OF FURNACE BLACKS
Lawrence R. Sperberg, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application December 27, 1949, Serial No. 135,165
5 Claims. (Cl. 23—209.6)



1. In a process for manufacturing a furnace black wherein a hydrocarbon is reacted in a reaction zone having a reducing atmosphere therein to produce said furnace black, the method of reducing the pH and of increasing the scorch time of said furnace black which comprises quenching said furnace black immediately after its formation from an elevated temperature to a less elevated temperature with a liquid quenching medium containing an inorganic acid selected from the group consisting of hydrochloric, sulfuric, sulfurous and nitric acids in an amount sufficient to supply an atmosphere having a partial pressure of acidic material between 1 and 200 mm. of mercury.

2,657,118
METHOD OF PURIFYING CARBONACEOUS MATERIAL
Norman W. F. Phillips, Ethan A. Hollingshead, and James S. Mutchmor, Arvida, Quebec, Canada, assignors to Aluminium Laboratories Limited, Montreal, Quebec, Canada, a corporation of the Dominion of Canada
Application September 21, 1950, Serial No. 185,947
14 Claims. (Cl. 23—209.9)



1. A method of purifying carbonaceous material of coal origin which contains inorganic contaminating material, comprising treating the carbonaceous material with chlorine at a temperature of at least about 1400° C. to convert inorganic contaminating material to volatilized form, and separating the volatilized material from the carbonaceous material.

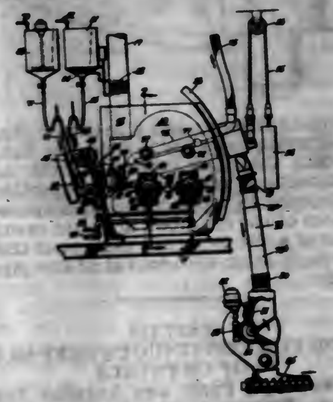
2,657,119
CONVERSION OF SULFUR DIOXIDE TO SULFUR WITH HYDROQUINONES
Richard A. Patten, Pittsburgh, Pa., assignor to Texas Gulf Sulphur Company, New York, N. Y., a corporation of Texas
No Drawing. Application July 6, 1950, Serial No. 172,280
10 Claims. (Cl. 23—226)

1. The process of producing sulphur by the reduction of sulphur dioxide comprising reacting a sulphur dioxide-containing gas with a hydroquinone having an oxidation potential of more than −0.47 volt.

3. The process for converting sulphur dioxide to sulphur comprising reacting sulphur dioxide with a hydroquinone having an oxidation potential of more than −0.47 volt, thereby converting at least part of said sulphur dioxide into sulphur and at least part of said hydroquinone into the corresponding quinone, continuously reducing said quinone so produced, thereby regenerating it into the hydroquinone, and reacting additional quantities of sulphur dioxide with the regenerated hydroquinone.

2,657,120
CHEMICAL REACTOR
Vernon L. Bigsby, Malvern, and Alexander J. Petraline, Phoenixville, Pa., assignors to Warner Company, Philadelphia, Pa., a corporation of Delaware
Application August 15, 1949, Serial No. 110,462
5 Claims. (Cl. 23—277)

4. Apparatus for effecting a continuous chemical reaction of materials by continuous mixing of the supplied materials, which reaction involves a liquid at least during the initial stage and forms a product that is at least semisolid and may be sticky or gummy, said apparatus comprising a walled furnace-like structure, a tubular reactor casing extending through said structure at an acute angle to the horizontal, means pivotally mounting the lower end of said casing externally of said structure to permit adjustment of said casing to a desired angle, the walls of said structure through which said casing extends having openings to permit the adjustment of said casing, means for maintaining closure of said openings for any position of said casing, means for supporting the upper end of said casing in any position of adjustment, means within said structure for heating said casing, means for supplying the materials to be reacted to the lower end of

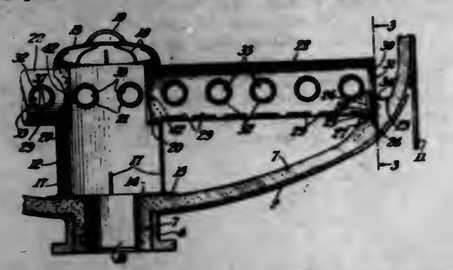


said casing, means for continuously mixing the supplied materials in the lower part of said casing and for continuously moving the aforementioned product upwardly within said casing while preventing accumulation of said product, said last means comprising a plurality of intermeshed screws within said casing, each screw having its helical edge in close proximity to the axle of each other screw and also in close proximity to the inner wall of said casing to prevent accumulation of said product by cleaning action of the screws upon one another and upon the casing wall, means for rotating said screws in the same direction to effect the aforementioned functions while the liquid involved in the reaction is gravitationally restrained in the lower part of the reactor casing, and means for conveying said product from the upper part of said casing.

2,657,121
CATALYTIC REACTOR
Jennings F. Rollins, Westfield, N. J., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware
Application October 3, 1946, Serial No. 701,035
2 Claims. (Cl. 23—288)

1. Apparatus for conducting a contact process including a casing forming a closed chamber to contain a mass of divided solid contact material, said casing having a central port at the bottom thereof and an opening spaced above the bottom; and means for passing fluid through said mass including a conduit communicating with the upper part of the chamber, an upwardly removable header disposed centrally within the lower portion of said chamber and having a hollow body portion larger than said bottom port and a reduced tubular spout-like portion extending downwardly from the center of the bottom of said

body portion into said port, the body portion resting upon the bottom of the chamber around said port, pipes extending laterally outward from the body portion of the header, said pipes being apertured therealong for passage of fluid, slip-joint connections between said pipes and the header body permitting expansion and contraction of the pipes under temperature changes and also permitting free outward withdrawal of the



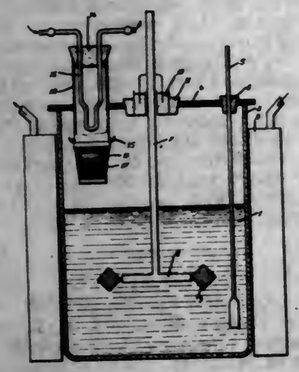
pipes from the header, and pipe-supporting means spaced laterally outwardly from the header and upon which the pipes removably rest, said slip-joint connections and said pipe-supporting means being disposed to support the pipes spaced above the bottom of the chamber, and said casing opening being of a size to permit passage of the header therethrough after withdrawal of the pipes from the header.

2,657,122

METHOD FOR CONTINUOUS PREPARATION OF CRYSTALS

Noëlle Chaudeye, Paris, and Angéline Fourdeux, Puteaux, France, assignors to Compagnie des Freins & Signaux Westinghouse, Paris, France, Societe Anonyme

Application November 23, 1949, Serial No. 129,021
In France December 18, 1948
3 Claims. (Cl. 23—301)



1. Method of continuous crystal production from a mother solution of a substance to be crystallized containing a seed crystal, which comprises agitating said mother solution with said seed crystal while maintaining said solution at constant temperature, condensing vapor from said solution at a point directly above said solution at a temperature below said constant temperature, allowing the resulting condensed liquid to flow by gravity onto a supply of said substance to dissolve a portion thereof, and allowing the resulting solution to fall dropwise directly into said first-mentioned mother solution, thereby to maintain a substantially constant concentration therein.

2,657,123

FUEL STRAINER AND ATOMIZER FOR INTERNAL-COMBUSTION ENGINES

Harold Goldman, New York, N. Y.

Application January 19, 1951, Serial No. 206,775
5 Claims. (Cl. 48—180)



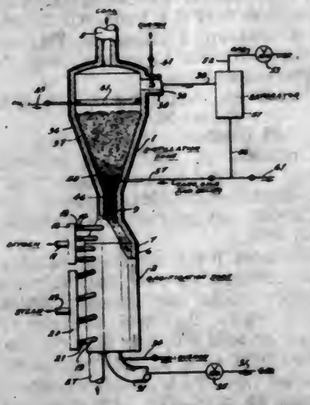
2. A fuel atomizer gasket for mounting between the carburator and the intake manifold of an internal combustion engine, comprising a superimposed gasket layer having aligned openings therein, a fine mesh wire screen cemented between said layers, an elongated metal strip baffle plate secured to one face of the screen, slots in said baffle plate, and a propeller deflector secured on said baffle plate, said securing means comprising a plate retaining said propeller thereon and prongs depending from the edge of said plate, one pair of prongs extending through said slots and the other pair of prongs extending through said screen to secure said deflector on said gasket.

2,657,124

GENERATION OF HEATING GAS FROM SOLID FUELS

Leon P. Gaucher, Mount Vernon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

Application December 30, 1948, Serial No. 68,270
3 Claims. (Cl. 48—197)



1. A process for the gasification of a solid carbonaceous material containing volatilizable constituents which comprises maintaining a dense phase fluidized bed of particles of said solid carbonaceous material in a distillation zone wherein said volatilizable constituents are distilled therefrom, disposing said distillation zone directly above a gasification zone and in direct communication therewith through an intermediate zone of restricted cross-sectional area permitting free flow of particles of solid carbonaceous material from the lower portion of said fluidized bed into the upper portion of said gasification zone and free flow of gas from said gasification zone to said distillation zone, introducing oxygen-containing gas into said gasification zone into contact with carbonaceous particles from said distillation zone effecting reaction with said carbonaceous particles in said gasification zone, passing gaseous reaction product from the upper portion of said gasification zone into the lower portion of said distillation zone through said intermediate zone countercurrent to the flow of said particles entering the gasification zone at a velocity such that said particles are admitted into said gasification zone at a limited rate, and withdrawing additional gaseous reaction product from the lower portion of said gasification zone.

2,657,125

ORGANIC PEROXIDE AND HYDROPEROXIDE HERBICIDES

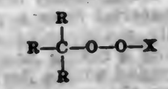
Lyle D. Goodhue and Carolyn E. Tissot, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application December 20, 1949, Serial No. 134,124
8 Claims. (Cl. 71—2.3)

1. The method of destroying a plant which comprises applying to said plant a herbicidal amount of a material selected from the group consisting of a peroxide of the formula

$$R—O—O—R$$

wherein each R is selected from the group consisting of a hydrocarbon radical and a substituted hydrocarbon radical and wherein the sum of the carbon atoms in the R groups is not in excess of 25, and an organic hydroperoxide of the formula



wherein each R is selected from the group consisting of hydrogen, a hydrocarbon radical, a substituted hydrocarbon radical, and a carbocyclic ring wherein two R's are included in said carbocyclic ring; X is selected from the group consisting of hydrogen and an alkali metal atom; not more than two R's shall be hydrogen at the same time and the sum of the carbon atoms in the R groups shall be at least 3 and not in excess of 30.

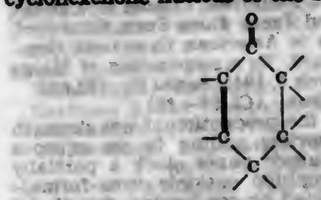
2,657,126

POLYHALOCYCLOHEXENONE COMPOSITIONS ADAPTED FOR HERBICIDAL AND OTHER USE

William D. Stewart, Brecksville, and John H. Standen, Cleveland Heights, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application March 31, 1951, Serial No. 218,694
13 Claims. (Cl. 71—2.3)

1. A herbicidal composition which comprises as the essential active ingredient from 0.1% to 50% by weight of a polyhalocyclohexenone containing 6 to 8 halogen atoms attached to the cyclohexenone nucleus of the structure



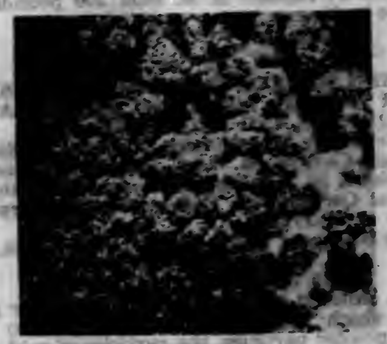
and an inert carrier therefor.

2,657,127

PRODUCTION OF CHROMIUM-ALLOYED CORROSION-RESISTANT METAL POWDERS AND RELATED PRODUCTS

Seymour J. Sindeband, Chappaqua, George Stern, Mamaroneck, and Joseph P. Scanlan, Yonkers, N. Y., assignors to American Electro Metal Corporation, Yonkers, N. Y., a corporation of Maryland

Application March 31, 1950, Serial No. 153,287
8 Claims. (Cl. 75—0.5)



1. The method of providing a readily compactible and moldable metal powder comprising first producing readily frangible porous sinter cake pieces composed essentially of sintered metal powder particles of at least one metal of the group consisting of iron containing at most about .2% carbon, of nickel, and of cobalt, and mixtures and alloys of at least two of said metals so that said cake pieces have at most a density of about 4 grams per cubic centimeter, and thereafter subjecting said cake pieces to a chromium-alloying treatment in which chromium from a chromium compound is deposited on the powder particles of said cake pieces and caused to diffuse into said powder particles so that said powder particles contain at least about 3% chromium, and thereafter comminuting said cake pieces into minute plastically readily deformable metal powder particles having the deposited chromium alloyed therewith so that when said chromium-alloyed particles are compacted in the absence of a binder into a green body under a pressure of about 50,000 pounds per square inch said green body exhibits a modulus of rupture of at least about 200 pounds per square inch.

2,657,128

SILICON-ALLOYED CORROSION-RESISTANT METAL POWDERS AND RELATED PRODUCTS AND PROCESSES

George Stern, Mamaroneck, Seymour J. Sindeband, Chappaqua, and Joseph P. Scanlan, Yonkers, N. Y., assignors to American Electro Metal Corporation, Yonkers, N. Y., a corporation of Maryland

No Drawing. Application March 31, 1950, Serial No. 153,288
10 Claims. (Cl. 75—0.5)

1. A sintered cake body of metal powder particles which is readily comminutable into soft metal powder particles, the particles of said cake body being composed essentially of at least one metal of the group consisting of iron containing at most about .2% carbon, of nickel, and of cobalt, and mixtures and alloys of said metals, said cake body having been subjected to a silicon-alloying treatment causing at least the surface layer of said particles to become alloyed with

silicon deposited on the particles from a silicon compound at elevated temperatures so that said body contains at least 3% of silicon, said cake body having at most a density of about 5 grams per cubic centimeter, whereby said body may be pulverized into minute silicon-alloyed powder particles which exhibit minimized work hardness and sufficiently great softness so that when the silicon-alloyed particles are compacted into a green body under pressure of about 50,000 pounds per square inch, said green body exhibits a modulus of rupture of at least 200 pounds per square inch.

2,657,129

ALUMINUM-ALLOYED CORROSION-RESISTANT METAL POWDERS AND RELATED PRODUCTS AND PROCESSES

George Stern, Mamaroneck, Seymour J. Sindeband, Chappaqua, and Joseph P. Scanlan, Yonkers, N. Y., assignors to American Electro Metal Corporation, Yonkers, N. Y., a corporation of Maryland

No Drawing. Application March 31, 1950, Serial No. 153,289
10 Claims. (Cl. 75—0.5)

1. A sintered cake body of metal powder particles which is readily comminutable into soft metal powder particles, the particles of said cake body being composed essentially of at least one metal of the group consisting of iron containing at most about .2% carbon, of nickel, and of cobalt, and mixtures and alloys of said metals, said cake body having been subjected to an aluminum-alloying treatment causing at least the surface layer of said particles to become alloyed with aluminum deposited on the particles from an aluminum compound at elevated temperatures in which at least 3% of the metal of said body is displaced by aluminum, said cake body having at most a density of about 5 grams per cubic centimeter, whereby said body may be pulverized into minute aluminum-alloyed powder particles which exhibit minimized work hardness and sufficiently great softness so that when the aluminum-alloyed particles are compacted into a green body under pressure of about 50,000 pounds per square inch, said green body exhibits a modulus of rupture of at least 200 pounds per square inch.

2,657,130

HIGH-TEMPERATURE STEEL AND ARTICLES

Paul A. Jennings, Baltimore, Md., assignor to Armco Steel Corporation, a corporation of Ohio

Application December 31, 1952, Serial No. 328,881
7 Claims. (Cl. 75—128)



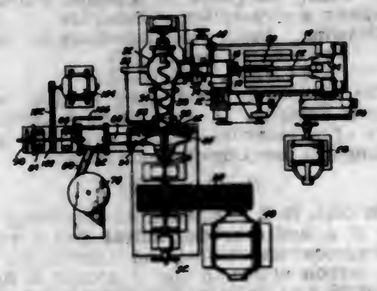
2. Stainless steel having a hardness exceeding 145 Brinell at a temperature of 1400° F. and substantial resistance to corrosion in the presence of leaded fuel combustion products, and consisting essentially of about 0.08% to 1.50% carbon, 12% to 30% chromium, 2% to 6% nickel, 3% to 12% manganese, .06% to 0.60% nitrogen, all in such proportions as to assure a substantially fully austenitic structure, silicon not exceeding 0.45%, and the remainder substantially all iron.

2,657,131

DISCHARGE DEVICE FOR FINELY DIVIDED FIBROUS MATERIAL FROM A PRESSURE SYSTEM

Hjalmar S. Messing, New York, N. Y., assignor to American Defibrator, Inc., New York, N. Y., a corporation of Delaware

Application May 26, 1949, Serial No. 95,561
2 Claims. (Cl. 92—6)



1. A device for continuously discharging finely divided fibrous material from a pressure system while substantially maintaining a pressure seal thereon, comprising a casing having a restricted inlet opening provided with a flaring portion extending away from the opening, a shaft rotative within the casing, said shaft being longitudinally adjustable and carrying a plurality of spaced conical members, one of said conical members being a cone having an apex located in said flared portion and spaced from the wall thereof, the second conical member being frustro-conical, each of the conical members having at least a portion of its surface roughened and grooved, the apex portion of the cone that is located in the flared part of the inlet opening being relatively smooth and free of the roughness and grooves, the interior of the casing being provided with a plurality of spaced liners maintained in end-to-end abutment, one of each of said liners extending about and being spaced from the periphery of each conical member, one of the liners being formed with a recess in one end of greater diameter than the conical members, which recess is situated at a location to form a chamber located intermediately of the conical members.

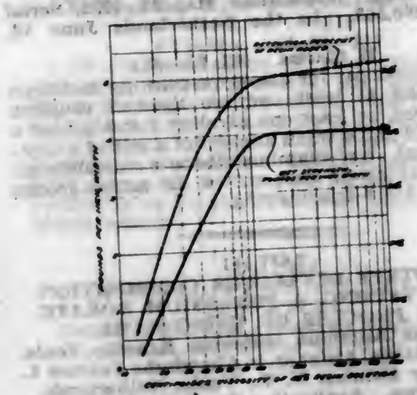
2,657,132

MANUFACTURING WET STRENGTH PAPER CONTAINING CATIONIC UREA-FORMALDEHYDE RESIN

John H. Daniel, Jr., Stamford, Chester G. Landes, New Canaan, and Tseng Jiueq Suen, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application March 5, 1947, Serial No. 732,648
7 Claims. (Cl. 92—21)

1. A process for the production of wet strength paper which comprises adding to an aqueous suspension of cellulosic paper stock a partially polymerized, hydrophilic cationic urea-formaldehyde resin obtained by condensing dimethylol urea and a quantity of an alkylenepolyamine which is about 6% to 15% of the weight of the urea in said dimethylol urea at a pH below 4.5 and polymerizing the condensation product to a degree corresponding to a viscosity of at least 100 centipoises in a 45% aqueous solution there-



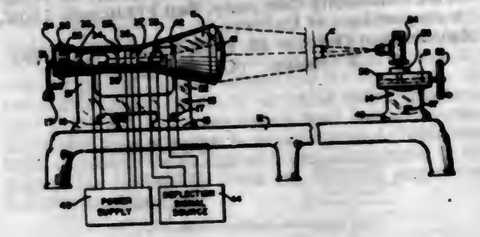
of, adsorbing about 0.1% to 5% of said resin on said paper stock, forming the stock so treated into a waterlaid sheet, and heating the sheet for about 1–4 minutes at 212° F. to 300° F. and thereby forming a bond of cured resin between the fibers thereof.

2,657,133

ELECTRON TUBE MARKING

Joseph Weingarten, Boston, Mass.

Application September 10, 1948, Serial No. 48,551
18 Claims. (Cl. 95—5)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. The method of applying predetermined markings to a cathode ray tube which comprises the steps of presenting a luminous image upon said tube, preparing a substantially permanent photographic record of said image apart from said cathode ray tube and photographically processing a reproduction of at least a portion of said separate photographic record upon said tube.

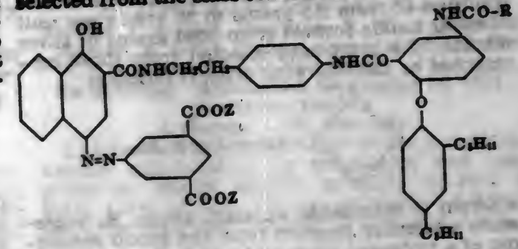
2,657,134

PHOTOGRAPHIC EMULSION WITH COLORED COUPLERS CONTAINING ISOPHTHALIC ESTER GROUPS

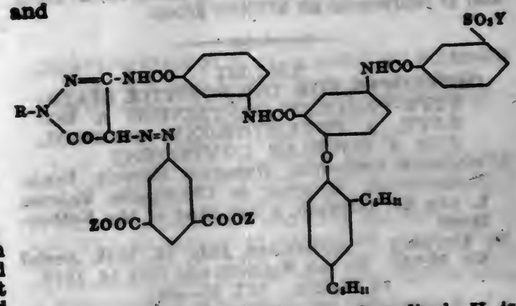
Bruce Graham, Paul W. Vittum, and Arnold Weissberger, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application December 5, 1951, Serial No. 260,998
8 Claims. (Cl. 95—6)

1. A gelatino-silver halide emulsion layer containing a coupler compound having a formula selected from the class consisting of



and



where R is a mononuclear aryl radical, Y is selected from the class consisting of hydroxyl and arylamino groups, and Z is selected from the class consisting of an alkali metal and a methyl radical.

2,657,135

PHOTOGRAPHIC EMULSIONS AND SOLUTIONS CONTAINING THIOGLYCOLIC ACID DERIVATIVES

Wesley G. Lowe and Marcelle E. Hamshire, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application November 5, 1949, Serial No. 125,246
7 Claims. (Cl. 95—7)

1. The method of preventing image degradation of an exposed silver halide emulsion during processing, which comprises developing, fixing, washing and drying said emulsion, and performing at least one of the steps of developing, fixing, washing and drying said emulsion in the presence in said emulsion of from 2.5 grams to 25 grams per unit of silver halide formed from 1000 grams of silver nitrate, of a compound selected from those compounds having the formula

R—NHCOCH₂SH

where R is selected from the class consisting of aryl, heterocyclic and acyl groups and the acetylated derivatives of said compounds.

2,657,136

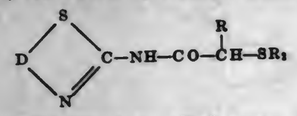
PHOTOGRAPHIC ANTIPLUMMING AGENTS AND COMPOSITIONS CONTAINING THEM

Edward B. Knott and Philip K. Brooks, Harrow, England, assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application October 25, 1951, Serial No. 253,266. In Great Britain March 30, 1951
9 Claims. (Cl. 95—7)

1. The method of preventing image degradation of an exposed silver halide emulsion during processing, which comprises performing at least

one of the steps of developing, fixing, washing and drying said emulsion in the presence in said emulsion of from 2.5 grams to 25 grams per unit of silver halide formed from 1000 grams of silver nitrate, of a compound selected from those represented by the following general formula:



wherein R represents an alkyl group, R_3 represents a member selected from the group consisting of a hydrogen atom and an alkali metal atom, and D represents an arylene group.

2,657,137

DEVELOPER FOR THE POSITIVE DIAZOTYPE-PROCESS CONTAINING A BORATE, A POLYHYDROXY ALCOHOL, AND A COUPLER COMPONENT

Franciscus Anthonius Hubertus Kessels, Venlo, Netherlands, assignor to Chemische Fabriek L. van der Grinten, a company of the Netherlands

No Drawing. Application July 14, 1948, Serial No. 38,759. In the Netherlands July 14, 1947

18 Claims. (Cl. 95—88)

1. A developer for positive diazotype material, comprising an alkali metal borate as the principal buffering component, an azo coupling component comprising a substance from the group consisting of phloroglucinol and hydroxyethylamide of betahydroxy-naphthoic acid, and a content of an organic polyhydroxyl compound that solubilizes the borate, said compound having in its molecule at least three alcoholic hydroxy groups attached to adjacent carbon atoms.

2,657,138

PHOTOGRAPHIC FILM DEVELOPING COMPOSITION CONTAINING BETA,BETA'-DICHLOROETHYL ETHER

Leonard A. Robbins, Salt Lake City, Utah

No Drawing. Application January 3, 1950, Serial No. 136,655

3 Claims. (Cl. 95—88)

1. A photographic developing composition, containing an organic silver halide developer; sodium carbonate; triethanolamine; ammonium bromide; and beta-beta'-dichloroethyl ether.

2,657,139

PROCESS OF REMOVING COLOR DEVELOPER STAIN IN AZINE DYE IMAGES

James E. Bates, Chenango Bridge, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 22, 1950, Serial No. 202,437

6 Claims. (Cl. 95—88)

1. In the process of eliminating stain in the production of subtractively colored azine dye images in a silver-halide emulsion involving exposure of said emulsion, color developing the same in a 2,4-diaminoaniline developer in the presence of a color former to produce a subtractively colored azine dye image, bleaching, fixing and washing said emulsion, the improvement which comprises interpolating between the color development and bleaching step a rinsing of the color developed emulsion with an aqueous solution containing from 0.1 to 10% of formaldehyde and 0.1 to 10% of a water soluble acid.

2,657,140

DEVELOPER FOR DIAZOTYPE MATERIALS

Franciscus Antonius Hubertus Kessels, Venlo, Netherlands, assignor to Chemische Fabriek L. van der Grinten, Venlo, Netherlands, a partnership of the Netherlands

No Drawing. Application May 28, 1952, Serial No. 290,563. In the Netherlands June 16, 1951

12 Claims. (Cl. 95—88)

1. A developer for diazotype printing materials comprising at least one azo dyestuff coupling component, at least one alkaline metal salt of a weak acid and a small amount of a salt of a blue-fluorescent p,p'-diaminostilbene-o,o'disulphonic acid in which at least one of the amino groups carries a 1:3:5-triazine ring.

2,657,141

DIAZOTYPE DEVELOPER COMPOSITION CONTAINING A POTASSIUM BORATE AND PROCESS OF USING SAME

Franciscus Antonius Hubertus Kessels, Venlo, Netherlands, assignor to Chemische Fabriek L. van der Grinten N. V., Venlo, Netherlands

No Drawing. Application January 14, 1953, Serial No. 331,319. In the Netherlands July 14, 1947

15 Claims. (Cl. 95—88)

1. A developer for one-component diazotype material consisting essentially of an azo coupling component and a potassium borate as the principal alkaline-reacting substance, said developer having a solution pH within the range from 8.3 to 10.

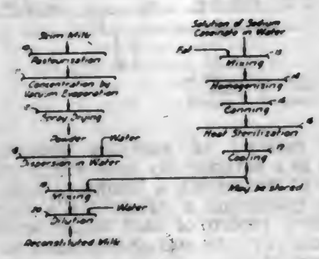
2,657,142

RECONSTITUTED MILK PROCESS

David D. Peebles, Hillsborough, and Murray D. Girvin, San Anselmo, Calif., assignors to Western Condensing Company, San Francisco, Calif., a corporation of California

Application October 23, 1950, Serial No. 191,692

2 Claims. (Cl. 99—63)



1. A method for making a reconstituted liquid milk comprising subjecting skim milk to pasteurization and vacuum evaporation, spray drying the resulting concentrate to form a dry powdered material, mixing the dried powdered material with water to form a dispersion, forming a water-fat emulsion, said emulsion comprising essentially 45 to 89% water, 10 to 52% fat, and 1.2 to 3.1% sodium caseinate, homogenizing the mixture to form a stable emulsion, subjecting the emulsion to heat sterilization at a temperature of the order of 240° F., and then mixing the emulsion with the dispersion to thereby form a reconstituted fat-containing milk.

2,657,143

ADDITION OF FATTY ALCOHOL TO YEAST RAISED BAKERY PRODUCTS

Peter Kass, Wilmington, Del., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 2, 1949, Serial No. 108,232

4 Claims. (Cl. 99—91)

1. In the preparation of yeast-raised, flour-containing bakery products, the improvement which comprises incorporating into the dough from about 0.05 to about 5.0% by weight based on the weight of flour, of a straight chain unsubstituted monohydric aliphatic alcohol containing from 12 to 22 carbon atoms per mol and containing no oxygen other than that of the hydroxyl radical.

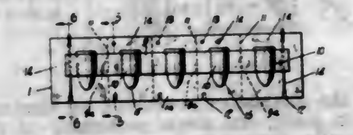
2,657,144

CONFECTION PACKAGE AND TOY STRUCTURE

Robert L. Batchlet, Cleveland Heights, Ohio

Application May 4, 1950, Serial No. 160,072

3 Claims. (Cl. 99—180)



1. A combination confection containing package intended for children's use as a toy cartridge belt simulating structure, comprising a container body for pre-conditioning the structure for sale and including a bottom confection holding section and parts including a cover for at least partially enclosing the contents of the container, confection carrying elements in the form of loops on the bottom section, and bullet shaped confections inserted in and supported by the loops, the container being made of tearable paper material and provided with weakened tear lines intermediate the enclosing parts and bottom holding section, enabling detachment along such lines of the said parts and cover from the bottom confection holding section.

2,657,145

METHOD OF FORMING A CORROSION RESISTANT PAINT AND PRODUCT RESULTING THEREFROM

Arthur Arent, Fort Dodge, Iowa, assignor to Arthur Arent Laboratories Inc., Des Moines, Iowa, a corporation of Iowa

No Drawing. Application September 23, 1950, Serial No. 186,499

5 Claims. (Cl. 106—14)

1. The method of forming an improved corrosion-resistant paint which comprises mixing turpentine and anhydrous antimony chloride, with the amount of antimony chloride being from 30% to about 50% by weight of the mixture, until an oily material containing an antimony compound is formed, adding water to the oily material containing said antimony compound, thereby forming a water-insoluble, colloid-like dispersion of an antimony compound in the oily material, and adding a neutralizing agent to the dispersion in order to neutralize any free acid.

2,657,146

BOROSILICATE OPTICAL GLASS

Norbert J. Kreidl, Brighton, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York

No Drawing. Application September 29, 1951, Serial No. 249,913

3 Claims. (Cl. 106—54)

1. A borosilicate optical glass which is stabilized against discoloration by irradiation and comprises by weight 60–70% of SiO_2, 10–20% of B_2O_3, 1–5% of ZnO, 10–15% of Na_2O, 0.2–2% of CeO_2, and not over 2% each of SrO and Al_2O_3.

2,657,147

COMPOSITION FOR VULCANIZING RUBBER

Edward A. Van Valkenburgh, Greene, N. Y.

No Drawing. Application November 23, 1948, Serial No. 61,743

2 Claims. (Cl. 106—123)

1. A composition useful in the compounding and vulcanization of rubber consisting essentially of tall oil acids compounded with from 2 to 20% of aniline based on the weight of the tall oil acids, and with an amount of compatible liquid hydrocarbon solvent of from 10 to 20% of the weight of the tall oil and aniline, said composition being a homogeneous liquid composition.

2,657,148

NEW AND IMPROVED SOLUTIONS OF ZEIN AND METHOD OF MAKING SAME

Joseph R. Ehrlich, New York, N. Y.

No Drawing. Application July 9, 1947, Serial No. 759,904

6 Claims. (Cl. 106—153)

1. A method of making a mixture of water with a zein solution, which consists in dissolving the zein initially in a substantially anhydrous glycol which is a primary solvent for zein, said glycol being substantially non-volatile at 130° C. under a pressure of 760 mm. of mercury and having a critical peptization temperature whose maximum is minus 40° C. to make an initial substantially anhydrous solution which remains clear and stable at 21° C. for at least six weeks, and then adding water to said initial solution, the water being added sufficiently slowly and with sufficiently vigorous agitation to blend with said initial solution without precipitation of the zein, the weight of the added water being at least 10% of the weight of the mixture and being within the water tolerance of said primary solvent.

2,657,149

METHOD OF ESTERIFYING THE SURFACE OF A SILICA SUBSTRATE HAVING A REACTIVE SILANOL SURFACE AND PRODUCT THEREOF

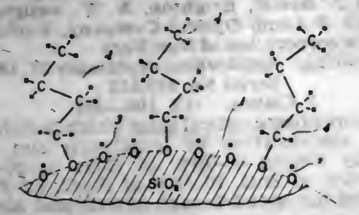
Ralph K. Iler, Brandywine Hundred, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

Application October 21, 1952, Serial No. 315,930

18 Claims. (Cl. 106—308)

1. An estersil, which is organophilic, being preferentially wetted by butanol in a butanol-water mixture, the estersil comprising a super-colloidal substrate coated with —OR groups, the substrate having a surface of silica and having a specific surface area of from 1 to 900 square meters per gram, the coating of —OR groups

being chemically bound to said silica, R being a hydrocarbon radical of from 2 to 18 carbon



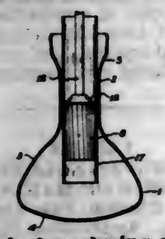
atoms wherein the carbon atom attached to oxygen is also attached to hydrogen.

2,657,150

METHOD AND MASKING SHIELD FOR INTERIORLY COATING HOLLOW ARTICLES

Herman E. Hermanson, Mayfield Heights, Ohio, assignor to General Electric Company, a corporation of New York

Application May 18, 1948, Serial No. 27,797
6 Claims. (Cl. 117—33)



1. The method of producing an internal coating on a wall portion other than the closed end wall of a hollow article having a constricted opening thereinto which method comprises, introducing into the article a normally conical-shaped collapsible shield and positioning the shield within the article to expand against the wall of the article and mask off the inner surface of the closed end wall portion to be left clear, coating the exposed portion of the inner wall of the article by depositing thereon a layer of finely divided coating material from a cloud of such material filling the hollow interior of the article, and then removing the shield from the article without the shield contacting and injuring the coating by inserting in the article a guide tube through the constricted opening in the article and collapsing the shield into and withdrawing it through the said guide tube.

2,657,151

COATING OF FABRICS

Herbert Gensel, Leverkusen-Wiesdorf, and Erwin Windemuth, Leverkusen-Bayerwerk, Germany, assignors to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany, a corporation of Germany

No Drawing. Application June 21, 1950, Serial No. 169,522. In Germany September 23, 1949
10 Claims. (Cl. 117—47)

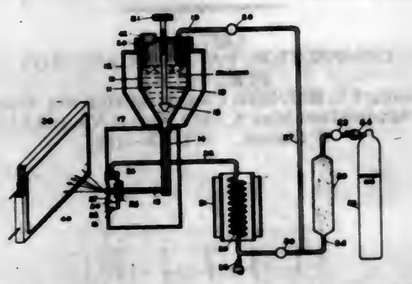
1. A process of coating textiles which comprises impregnating said textiles with an aqueous medium of the group consisting of water, an aqueous solution of an aliphatic diamine and an aqueous solution of an aliphatic amino-alcohol, coating the impregnated textiles with a liquid medium containing an isocyanate modified polyester that is still soluble in organic solvents and whose sole reactive groups are isocyanate groups, said aqueous impregnating medium being present in said textiles in an amount sufficient to prevent substantial penetration of said liquid coating medium therein, and effecting cross-linking of said isocyanate modified polyester by treating said coated textiles with a cross-linking agent.

2,657,152

PROCESS OF PRODUCING AN ELECTROPHOTOGRAPHIC PLATE

Otavio J. Mengali and Arthur E. Middleton, Columbus, Ohio, assignors, by mesne assignments, to The Haloid Company, Rochester, N. Y., a corporation of New York

Application March 31, 1950, Serial No. 153,852
5 Claims. (Cl. 117—53)



1. In the method of producing an electrophotographic plate, the steps consisting of fusing substantially pure selenium and heating said selenium to a temperature in the range between 240 to 400° C., heating an inert gas to a temperature in the range between 225 to 350° C., and atomizing said selenium by a stream of said gas under pressure of 50 to 80# per square inch to spray said selenium in fine molten particles onto a base having a temperature of from 180 to 220° C. and an electrical resistivity of less than 10^{16} ohms-cm.

2,657,153

COATING CERAMIC AND MASONRY PRODUCTS

Alexander H. Russell, Baltimore, Md., assignor to The Burns & Russell Company of Baltimore City, Baltimore, Md., a corporation of Maryland

No Drawing. Application June 4, 1948, Serial No. 31,222
4 Claims. (Cl. 117—54)

1. A process of coating a surface of a somewhat porous molded masonry product to form a relatively thin layer bonded thereto and provided with a hard smooth outer surface which comprises in continuous succession spraying on the product surface while said surface is heated to a temperature of the order of 125 to 250° F. a light mist coating of a liquid composition including a solution of a heat hardenable thermo-setting resin in a volatile solvent, allowing for no more than a few minutes said resin to partially cure and the solvent in said composition to evaporate to form a thin partially cured film which seals at least most of the pores in the product surface, immediately thereafter and while the surface is still heated and said film is only partially cured applying onto said film a heavier coating of liquid thermo-setting resin composition compatible with said film, and subjecting the coated product to sufficient heat to produce a final hardening and bonding of the composite coating.

2,657,154

PROCESS OF ACIDPROOFING THE SURFACE OF POROUS CALCAREOUS ARTICLES

Cornelis Brouwer, Beverwijk, Netherlands

No Drawing. Application May 15, 1951, Serial No. 226,536. In the Netherlands May 16, 1950
8 Claims. (Cl. 117—54)

1. A process of acid proofing the surfaces of porous calcareous articles of concrete and the like subject to attack by acids and containing calcium compounds capable of reacting with silicon tetrafluoride which comprises contacting the dry surface of such an article with gaseous silicon tetrafluoride for a time sufficient to cause the silicon tetrafluoride to penetrate and react within the pores thereof, the said dry surface being previously dried at least to the air-dry state.

2,657,155

PROCESS OF FORMING AN INSOLUBLE COATING

Jan Lelkema, Hoogezand, Netherlands, assignor to Naamlooze Vennotschap: W. A. Scholten's Chemische Fabrieken, Groningen, Netherlands, a corporation of the Netherlands

No Drawing. Application May 23, 1948, Serial No. 29,945. In the Netherlands May 30, 1947
6 Claims. (Cl. 117—84)

1. A process of coating a water insoluble, water repellent coating upon the surface of a base material, comprising, applying an aqueous solution of a water soluble salt of an acid selected from the group consisting of starch ether carboxylic acid and starch ester carboxylic acid to said surface of said base and thereafter coating the so treated base with an aqueous solution of a polyvalent metal salt selected from the group consisting of water soluble salts of aluminum, ferric iron, chromic chromium, and tin, and forming a water insoluble salt with the acid applied in the first coating, said metal salt solution having emulsified therein a water repellent paraffin material.

2,657,156

PHOSPHATE COATING COMPOSITION AND PROCESS

Montagu Hyams and Andrew Nicholson, London, England, assignors to Parker Rust-Proof Company, Detroit, Mich., a corporation of Michigan

No Drawing. Application July 31, 1949, Serial No. 106,102. In Great Britain July 23, 1948
8 Claims. (Cl. 148—6.15)

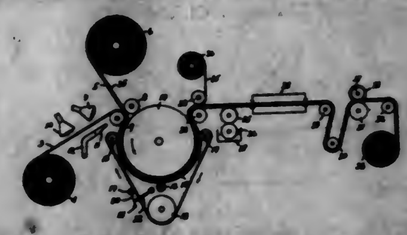
2. A liquid composition for the production of phosphate coatings on ferrous surfaces, said composition consisting of an aqueous solution composed of at least one substance selected from the group consisting of phosphoric acid, ammonium phosphate and the alkali metal phosphates, said phosphate being present in a concentration of from 0.05 to 0.25 molar and at least one reducible compound selected from the group consisting of m-nitrobensene-sulphonic acid in an amount of .05 percent to .25 percent, o-nitrochlorbensene-p-sulphonic acid in an amount of .5 percent to 2 percent, 3-nitrophthalic acid in an amount of .02 percent to .1 percent, m-nitrobensoic acid in an amount of .02 percent to .1 percent, and the salts thereof in a concentration equivalent to the concentration of the corresponding acid, said solution containing sufficient alkaline material to produce a pH within the range of 4.2 to 5.8.

2,657,157

INK TRANSFER ELEMENT

Carleton S. Francis, Jr., West Harwich, Mass., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

Application June 2, 1950, Serial No. 165,854
6 Claims. (Cl. 154—46.8)



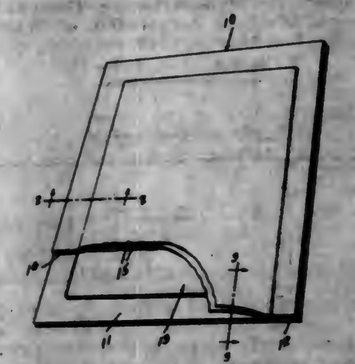
1. In a transfer element, a thin, porous fibrous web impregnated with an ink transfer medium, and a thin, tough, flexible, thermoplastic film impervious to the ink transfer medium adhesively joined by a portion of its own substance to one face of the web and having a smooth exposed face, the fibers of the web being also impregnated by the substance of the film at the adjoining surface of the web to a depth not exceeding one-fourth of the web thickness.

2,657,158

NONSCRATCHING PACKING PAD

George A. Gerard, Hillside, N. J., assignor to Cotton Wood Products, Inc., Baltimore, Md., a corporation of Maryland

Application June 13, 1950, Serial No. 167,838
1 Claim. (Cl. 154—54)



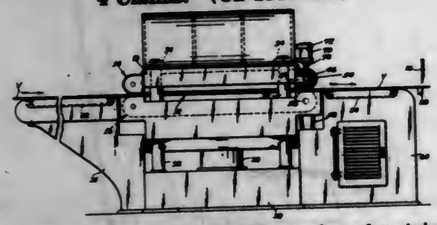
As a new article of manufacture, a rectangular packing pad comprising a filler formed of a relatively thick layer of a fibrous material, an envelope formed of two sheets of a relatively heavy flexible sheet material having the edges thereof adhesively joined to fully enclose said layer of fibrous material, and two sheets of a soft textured material overlying one face of said envelope in superposed relation with respect thereto, two of the opposite edges of the last named sheets being adhesively joined, together with the complemental edges of said envelope, the portions of said last named sheets between the joined edges thereof having a slight fulness to prevent disruption of the same in the event of movement of the pad structure relative to the object to be protected thereby.

2,657,159
METHOD OF MAKING CLOTHING FROM COMPONENT PARTS OF SHEET MATERIAL
Gustave Nahman, Englewood, N. J., assignor of one-half to Harry Ernest Rubens, New York, N. Y.
Application July 14, 1945, Serial No. 605,095
2 Claims. (Cl. 154—95)



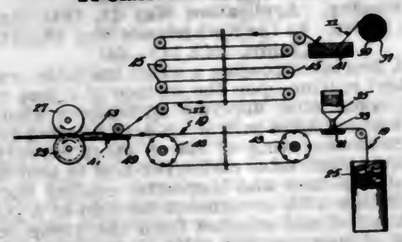
1. The method of manufacturing a completed article from its component parts made of sheet material having front and back surfaces, which comprises impressing a pattern having an outline of the desired shape and a marginal area of readily removable adhesive material formed on the rear surface thereof to the front surface only of the sheet material, transferring the adhesive material to the sheet material, cutting the sheet material into the shape of the pattern forming the part, assembling the parts together into the shape of the completed article by engaging the corresponding front marginal surfaces containing the adhesive material and thereafter permanently securing the marginal portions of the parts together.

2,657,160
VENEER JOINING APPARATUS
Edward L. Creston, Dash Point, Wash., assignor to American Manufacturing Company, Inc., Tacoma, Wash., a corporation of Washington
Application May 14, 1949, Serial No. 93,254
4 Claims. (Cl. 154—116)



1. In the method of adhesively edge-joining strips, the steps which comprise advancing such strips successively along a predetermined path with their edges to be joined disposed transversely of such path, frictionally engaging simultaneously several of such strips substantially throughout a plurality of parallel, narrow areas extending entirely across such strips transversely of their edges to be joined and parallel to the direction of strip advance and spaced transversely of the direction of strip advance and by such engagement exerting laterally against the faces of such strips a force flattening them into coplanar relationship and a force parallel to the faces of such strips advancing them conjointly to a bonding station, halting the advance of the leading strip while continuing to apply thereto such lateral and parallel friction forces to such strip and by application of such forces continuing to advance succeeding strips until each of such strips edge-abuts the strip ahead of it and is thereby held against further advance, while continuing to apply such advancing and flattening forces throughout such spaced, parallel, narrow areas applying distributed flattening pressure laterally against the faces of the strips in substantial continuity entirely across such strips in areas located transversely of the direction of strip movement between such spaced, parallel, narrow areas of the order of intensity of the lateral force against the strips in such spaced, parallel, narrow areas, thereafter interrupting the advancing force applied to such spaced, parallel, narrow areas while still maintaining the flattening force therein, and, while maintaining the flattening force in such spaced, parallel, narrow areas and the flattening pressure in the areas therebetween, setting adhesive on the veneer strip edges.

2,657,161
REINFORCED LEATHER STRIPPING AND METHOD OF MAKING THE SAME
Edward B. Luitwieler, Malden, Mass., assignor to American Stay Company, East Boston, Mass., a corporation of Massachusetts
Application July 27, 1951, Serial No. 238,958
14 Claims. (Cl. 154—116)



14. The method of producing stripping comprising a leather strip reinforced with a textile strip which comprises beveling opposite edges of the leather strip from one of its faces and coating said face and the beveled surfaces with cement; impregnating with cement a textile strip the width of which is that of said face of said leather strip between said beveled surfaces and the thickness of which is less than the width of said beveled surfaces; and, while the cement coating on said leather strip and the cement with which said textile strip is impregnated are tacky, applying said textile strip to the portion of said face of the leather strip beween said beveled surfaces and folding the beveled edge portions of said leather strip toward said textile strip to position said beveled surfaces of the leather strip in opposed closely adjacent relation to the edges of the textile strip with the outer edges of said beveled surfaces extending beyond and slightly overlying the face of the textile strip opposite the face thereof to which the leather strip is applied, and, while the cement is still tacky and said beveled surfaces are so positioned, subjecting the two strips so applied to each other to a pressing and forming operation for forcing the folded beveled edge portions of the leather strip toward the textile strip for causing them to deform the textile strip to produce thereon beveled edges to which the beveled surfaces of the leather strip adhere with the outer surface of the leather strip opposite its beveled surfaces positioned at its edges in the plane of the exposed face of the textile strip and with said outer surface opposite said beveled surfaces continuously rounded, the two strips between said rounded surfaces being flat.

2,657,162
PRODUCTION OF BONDED RUBBER ARTICLES
Frederick Joseph Tibenham, Castle Bromwich, England, assignor to Dunlop Rubber Company Limited, London, England, a British company
No Drawing. Application January 30, 1952, Serial No. 269,128. In Great Britain March 4, 1950
8 Claims. (Cl. 154—139)

1. A process for making composite articles which comprises reducing the unsaturation of the surface of a soft-vulcanized rubber component to form a hardened surface bringing said modified surface into juxtaposition with a rigid component with a bonding layer therebetween comprising a polyvinyl acetal and a hardenable aldehyde resin, and hardening the resin while pressing the rubber against the rigid component.

2,657,163
WALLBOARD ADHESIVE AND METHOD
Walter P. Ericks, Lockport, N. Y., assignor to The Upson Company, Lockport, N. Y., a corporation of New York
No Drawing. Application March 6, 1951, Serial No. 214,215
12 Claims. (Cl. 154—141)

9. The method of making a water-resistant, laminated fiber board, which comprises, spreading on a surface of a sheet of said cellulose fiber a layer of an adhesive having water-resistant characteristics and high initial tack, while said adhesive is at a temperature between 65 and 75° C., said adhesive consisting essentially of a cooked aqueous dispersion of between 35 and 45% by weight based on the total weight of the adhesive of acid-converted starch and between 0.1 and 0.3% by weight based on the weight of said starch of aluminum sulfate, the remainder of said adhesive being essentially water, said adhesive having a pH between 4.5 and 5.2 and a viscosity between 700 and 7000 centipoises at 67° C., superimposing another sheet of cellulose fiber on the first-mentioned sheet in contact with said layer and promptly pressing said sheets together.

2,657,164
CHLORINATED CAMPHOR AND FENCHONE AS INSECTICIDES
George Allen Buntin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 8, 1950, Serial No. 183,895
6 Claims. (Cl. 167—30)

1. An insecticidal composition comprising a polychloro bicyclic terpene ketone having a chlorine content within the range of about 50% to about 75% chlorine obtained by chlorinating a terpene ketone, selected from the group consisting of camphor and fenchone, in an inert solvent with chlorine gas in the presence of a free radical-forming chlorination catalyst at a temperature in the range of 50–100° C to a chlorine content within said range, and an insecticidal adjuvant as a carrier therefor.

2,657,165
CHLORINATED DICYCLOHEXADIENE AND INSECTICIDAL COMPOSITIONS CONTAINING THE SAME
George Allen Buntin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 30, 1950, Serial No. 187,831
10 Claims. (Cl. 167—30)

1. The product of chlorination of dicyclohexadiene dissolved in an inert solvent with chlorine gas in the presence of a free radical-forming chlorination catalyst at a temperature in the range of 50° to 150° C. and containing from about 53% to about 74% chlorine.

4. An insecticidal composition comprising the product of chlorination of dicyclohexadiene dissolved in an inert solvent with chlorine gas in the presence of a free radical-forming chlorination catalyst at a temperature in the range of 50° to 150° C. and containing from about 53% to about 74% chlorine, and an insecticidal adjuvant as a carrier therefor.

2,657,166
CHLORINATED TERPENE ALCOHOLS, ESTERS, AND ETHERS AS INSECTICIDES
William D. Stonecipher, Newark, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 7, 1950, Serial No. 189,971
5 Claims. (Cl. 167—30)

1. An insecticidal composition comprising the product of chlorination in an inert solvent with chlorine gas in the presence of a free radical-forming chlorination catalyst at a temperature in the range of about 50° C. to about 150° C. to a chlorine content of about 40–70% of an oxyterpene material of the group consisting of isobornyl acetate, isobornyl chloroacetate, isobornyl propionate, bornyl salicylate, fenchyl alcohol, isoborneol and terpinyl chloroethyl ether and an insecticidal adjuvant as a carrier therefor.

2,657,167
CHLORINATED TERPENE DERIVATIVE
Warren L. Walton, Schenectady, N. Y., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 13, 1950, Serial No. 190,061
18 Claims. (Cl. 167—30)

1. The product of chlorination of a cyclic terpene-polyhalomethane adduct dissolved in an inert solvent with chlorine gas in the presence of a free radical-forming chlorination catalyst at a temperature in the range of 50° to 150° C. and containing from about 54% to about 75% chlorine, said adduct being the product formed by heating a cyclic terpene and a polyhalomethane in the presence of a peroxide catalyst.

2,657,168
POLYCHLORO BICYCLO HEPTANES AS INSECTICIDES
George Allen Buntin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 17, 1950, Serial No. 190,663
5 Claims. (Cl. 167—30)

1. An insecticidal composition comprising a polychlorobicyclo[2.2.1]heptane containing 55–75% by weight of chemically combined chlorine and an insecticidal adjuvant as a carrier therefor, said polychlorobicyclo[2.2.1]heptane being the product obtained by chlorinating 2-methylbicyclo[2.2.1]-5-heptene dissolved in an inert solvent with chlorine gas in the presence of a free radical-forming chlorination catalyst at a temperature in the range of about 0–150° C.

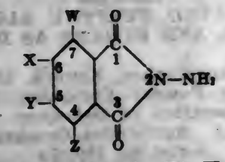
2,657,169

N-AMINOPHTHALIC IMIDES AND SALTS THEREOF AS FUNGICIDAL COMPOSITIONS

Waldo B. Ligett, Berkley, Rex D. Closson, Detroit, and Calvin N. Wolf, Ferndale, Mich., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application October 28, 1950, Serial No. 192,265
11 Claims. (Cl. 167—33)

1. A fungicidal composition, consisting of a uniform dispersion of an active ingredient, present in amount less than about 50 per cent by weight, which is selected from the group consisting of a compound possessing the general formula



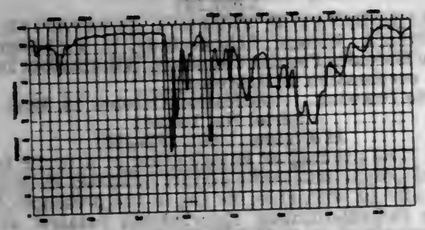
and salts thereof, wherein W, X, Y and Z are selected from the group consisting of hydrogen, halogen, nitro, and amino, in admixture with an inert fungicidal adjuvant as a carrier therefor.

2,657,170

ANTIMYCIN AND PROCESS FOR PRODUCTION

George W. Keitt, Curt Leben, and Frank M. Strong, Madison, Wis., assignors to Wisconsin Alumni Research Foundation, Madison, Wis., a corporation of Wisconsin

Application February 2, 1949, Serial No. 74,244
8 Claims. (Cl. 167—65)



1. A process for the production of antimycin comprising cultivating a culture medium inoculated with an antimycin-producing strain NRRL 2288 of Streptomyces for about 70–100 hours at a temperature of about 24–29° C., separating the culture broth from unwanted insoluble material including organism growth, acidifying the resulting crude antimycin liquor, and recovering the resulting crude acid precipitated antimycin precipitate.

2,657,171

STORAGE- AND AUTOCLAVE-STABLE CONCENTRATED DIHYDROSTREPTOMYCIN SOLUTION

Thomas J. Macek, Irvington, and Edward J. Hanus, Bayonne, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application May 10, 1950, Serial No. 161,254
6 Claims. (Cl. 167—65)

1. A stable concentrated aqueous solution of dihydrostreptomycin, characterized as being stable both during storage and at the elevated temperatures utilized for sterilization by autoclaving, which comprises an aqueous solution containing a salt of dihydrostreptomycin, the amount of said salt being equivalent to at least about 250 mg. of dihydrostreptomycin base per cc. of solution, a buffering agent, and at least one stabilizing agent selected from the group consisting of salts of sulfurous acid, salts of hydrosulfurous acid, and aldehyde addition products thereof, the amount of said buffering agent being sufficient to adjust the pH of the solution within the range of 5.0 to 8.0.

2,657,172

THERAPEUTIC SOLUTION OF CALCIUM LACTATE AND CALCIUM GLYCEROPHOSPHATE

Gustav Sattler, Jr., deceased, late of New York, N. Y., by Beatrice Sattler, administratrix, New York, N. Y., and Beatrice Sattler, New York, N. Y., assignors, by mesne assignments, to The Carlton Corporation, New York, N. Y., a corporation of New York

No Drawing. Application June 22, 1950, Serial No. 169,778
2 Claims. (Cl. 167—68)

1. A therapeutic calcium composition suitable for subcutaneous or intramuscular injection consisting essentially of a crystal clear solution of calcium glycerophosphate and calcium lactate in physiological saline solution, containing from about 0.1 to about 2.0% by weight total of these calcium salts and having a pH in the range of 7.0 to 7.5.

2,657,173

PRODUCTION OF ITACONIC ACID

Virgil F. Pfeifer and George E. N. Nelson, Peoria, and Charles Vojnovich, Washington, Ill., and Lewis B. Lockwood, Glen Rock, N. J., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application July 3, 1952, Serial No. 297,188
7 Claims. (Cl. 195—36)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A method for producing itaconic acid which comprises inoculating a nutrient medium containing substantial amounts of, but no more than about 7 percent fermentable carbohydrate and a source of assimilable nitrogen with an itaconic acid-producing mold of the genus Aspergillus under submerged aerobic conditions, said medium being at a pH within the range of 1.4 to 5.0, and continuing the fermentation whereby appreciable amounts of itaconic acid are formed and recovering the thereby produced itaconic acid.

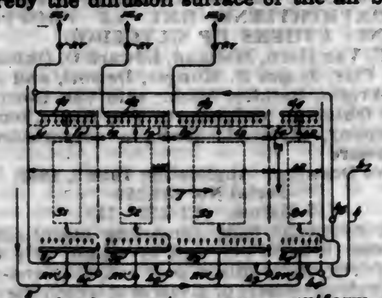
2,657,174

CONTINUOUS MANUFACTURE OF YEAST

Eugen Georg Stieb, Heidelberg, Germany

Application April 14, 1950, Serial No. 155,866
In Switzerland June 17, 1949
15 Claims. (Cl. 195—94)

1. Method for the continuous manufacture of yeast, comprising withdrawing yeast-containing mash from the bottom of a fermentation chamber, causing the mash to flow upwardly outside said chamber, cooling the mash adding a nutritive solution to the mash, causing the mixture of mash and nutritive solution to enter the fermentation chamber at its top, evenly distributing said mixture over the area of the chamber, causing the distributed mixture to act upon foam produced during fermentation, allowing the mixture to flow downwardly, introducing air into the fermentation chamber near its bottom, breaking up the air into bubbles, and allowing the air bubbles to rise in counter-current to the path of said mixture within the fermentation chamber, whereby the diffusion surface of the air bubbles



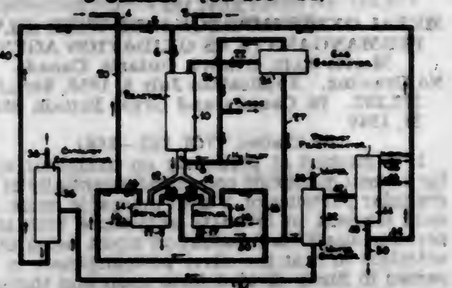
is maintained so as to ensure a uniform oxygen supply.

2,657,175

DESULFURIZATION OF HEAVY PETROLEUM OILS

Ralph Burgess Mason, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

Application November 16, 1950, Serial No. 195,939
8 Claims. (Cl. 196—24)



1. The process of desulfurizing and upgrading sulfur-containing petroleum residua which comprises converting said residua into a product of lower boiling range, which product contains a major proportion of gas oil and a minor proportion of naphtha, and at the same time removing the major proportion of the sulfur contained in the said residua by contacting said residua feed in a hydrogenation zone with hydrogen in the presence of a catalyst comprising a boron fluoride addition product represented by the formula $BX_3.Y$, where X is a halide, and Y is an oxygenated material selected from the group consisting of water, alcohols, and ethers in which the ratio of BX_3 to Y is from 0.5 to 1 to 2 to 1, maintaining within said zone reaction conditions of temperature pressure and through-put rates avoiding substantial cracking to products boiling in the naphtha range maintaining within said zone a pressure in the range of 500–5000 p. s. i. g. and a temperature in the range of 300°–900° F., maintaining a feed rate of 0.25 to 4 v./v./hr. and recovering a product containing substantially less sulfur than said feed.

2,657,176

ELECTRODEPOSITION OF COPPER AND COPPER ALLOYS UPON ZINC AND ZINC ALLOYS

Hans Bermann, Forest Hills, N. Y., and Sigmund Katz, Newark, N. J., assignors to Canmar Products Corporation, Newark, N. J., a corporation of New Jersey

No Drawing. Application April 1, 1949, Serial No. 85,034
9 Claims. (Cl. 204—40)

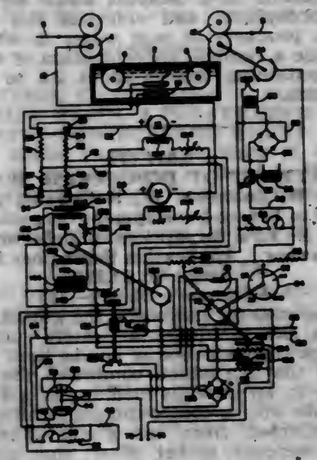
1. A method for providing a non-blistering deposit containing a substantial amount of copper upon a metal base selected from the group consisting of a ferrous base and a zinc alloy base, said method comprising plating zinc upon the metal base from a zinc solution containing not more than approximately 0.0025 ounce of lead and cadmium per gallon of solution, and plating a deposit containing a substantial amount of copper upon said zinc deposit.

2,657,177

PLATING THICKNESS REGULATOR

George H. Rendel, Mount Lebanon, Pa., assignor to United States Steel Corporation, a corporation of New Jersey

Application July 10, 1950, Serial No. 172,955
3 Claims. (Cl. 204—211)



1. Apparatus for controlling the amount of metal electrolytically deposited on an elongated longitudinally moving object comprising a generator for supplying current to said object, a field winding for said generator, means for obtaining a potential proportional to the speed of the object, means for obtaining a potential proportional to the output of said generator, means for comparing the said potentials, an electrical connection between each of the first two means and the comparing means, a potentiometer in one of said electric connections, a first contact arm for said potentiometer, means operable by said comparing means for restoring balance between the said potentials, said last named means including a reversible motor, electric means connecting said motor to said comparing means for operation of said motor in opposite directions in accordance with the direction of unbalance of the said potentials, a second potentiometer, power leads for connecting said second potentiometer to a source of D. C. power, a third potentiometer connected in parallel with the second potentiometer, a contact arm for each of said second and third potentiometers, means for connecting said motor to one of said second and third contact arms to move the same proportional to movement of said motor, an exciter for said field winding, electrical means connecting said second and third contact arms to said exciter, and means connecting said motor to said first contact arm to move the same proportional to the movement of said motor.

2,657,178

TREATMENT OF INDUSTRIAL WATERS

William W. Robinson, Jr., Hollywood, Calif., assignor to Texaco Development Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application September 24, 1948, Serial No. 51,124

3 Claims. (Cl. 210—23)

1. A process for inhibiting the growth of algae and the like in industrial waters, such as are circulated through cooling ponds, heat exchangers and the like comprising the steps of reacting an alkali metal pyrophosphate in an aqueous medium with a compound containing a heavy metal selected from the group consisting of copper, mercury, nickel, silver, zinc, manganese and cadmium, said reactants being used in approximately the stoichiometric proportions to replace at least one of said alkali metal components of said pyrophosphate with the resulting formation of a complex alkali metal-heavy metal phosphate, and charging the resultant reaction products to said water in an amount to provide a residual concentration of the heavy metal-containing ion of about 2.5 to 10 parts per million.

2,657,179

TREATMENT OF INDUSTRIAL WATERS

William W. Robinson, Jr., Hollywood, Calif., assignor to Texaco Development Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application September 24, 1948, Serial No. 51,125

5 Claims. (Cl. 210—23)

1. A process for inhibiting the growth of algae and the like in industrial waters such as are circulated through cooling ponds, heat exchangers and the like which comprises the steps of reacting in an aqueous medium an alkali metal phosphate with a compound containing a heavy metal selected from the group consisting of copper, mercury, nickel, silver, zinc, manganese and cadmium, said reactants being used in approximately stoichiometric proportions to form a heavy metal polyphosphate and charging the resulting reaction products to said water in an amount to provide a residual concentration of heavy metal of about 2.5 to 10 parts per million.

2,657,180

MANUFACTURE OF ANTIFRICTION BEARING GREASES

Lorne W. Sproule and John S. Gray, Sarnia, Ontario, Canada, assignors to Standard Oil Development Company, a corporation of Delaware

Application September 1, 1950, Serial No. 182,708

9 Claims. (Cl. 252—42)

1. A lubricating grease composition comprising lubricating oil having a viscosity between about 35 and 500 S. S. U. at 210° F., thickened to a grease consistency with a soda soap of a mixture of commercial fats and substantially saturated fatty acids, said mixture having an iodine number not greater than about 25 and being substantially free of uncombined glycerin prior to saponification, said grease being characterized by a smooth structure and short fibre imparted thereto by cooling with mechanical working to a temperature not greater than 130° F. and by introducing extraneous glycerin during such cooling and working sufficient in amount to make the total glycerin content equal to about 0.8 to about 1.5 times that of said fats and the corresponding triglycerides of said fatty acids.

2,657,181

HYDRAULIC FLUID CONTAINING POLY-(OXYETHYLENE - OXY - 1,2 PROPYLENE) ETHERS OF GLYCEROL

John C. Van Horn, Midland, Edward O. Ohlmann, Bay City, James D. Klinger, Detroit, and John H. Wright, Berkley, Mich.; said Van Horn and said Ohlmann assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application June 6, 1951, Serial No. 230,256

7 Claims. (Cl. 252—73)

1. A hydraulic fluid consisting essentially of (*a*) from 10 to 30 per cent by weight of a mixture of trihydroxy mixed poly (oxyethylene-oxy-1.2 propylene) ethers of glycerol in which the oxyethylene groups represent from 20 to 80 mol per cent of the total oxyalkylene groups and in which there is an average of at least 8 oxyalkylene groups per glycerol molecule, (*b*) from 55 to 90 per cent of an acyclic monohydric alcohol containing from 3 to 10 carbon atoms per molecule and (*c*) up to 30 per cent of an acylic glycol containing from 2 to 6 carbon atoms per molecule.

2,657,182

METAL OXIDE IMPREGNATED WITH SILVER PERMANGANATE AS OXIDATION AGENT

Morris Katz, Ottawa, Ontario, Canada

No Drawing. Application July 6, 1950, Serial No. 172,392. In Canada and Great Britain March 31, 1949

13 Claims. (Cl. 252—186)

1. A method of preparing an oxidation agent for carbon monoxide consisting essentially of dry granular particles of a solid inorganic oxide of a solid element in intimate admixture with silver permanganate, said oxidation agent being characterized in that the silver permanganate is dispersed in finely divided form upon and throughout the oxide by being formed upon the oxide in finely divided form by reaction in aqueous solution between two silver permanganate forming reactants in the presence of said oxide, said reactants being a soluble silver salt and an alkali metal permanganate, the oxide being substantially unreactive with water, having no more than a low solubility in water, and in the presence of water, being substantially unreactive with the soluble silver salt employed, said method comprising mixing the inorganic oxide in finely divided form in an aqueous solution of a first one of the said silver permanganate forming reactants, dispersing the second said reactant in the resultant mixture to form a silver permanganate therein, whereby to crystallize the silver permanganate upon and throughout the oxide, separating the solids from the mother liquor, and drying said solids.

2,657,183

PROCESS OF PREPARING A HOMOGENEOUS AQUEOUS COLLOIDAL DISPERSION OF SILICA AND A HYDROUS OXIDE OF ZINC, ALUMINUM, TIN, OR COLUMBIUM AND THE RESULTING PRODUCT

Max Fredrick Bechtold, Kennett Square, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 9, 1949, Serial No. 109,422

10 Claims. (Cl. 252—313)

1. In a process for producing aqueous dispersions containing silicic acid and a hydrous oxide of a metal selected from the group consisting of zinc, aluminum, tin, and columbium, the step comprising effecting contact between a cation-exchange resin and an aqueous solution containing an alkali-metal silicate together with an alkali-metal salt having an anion selected from the group consisting of zincate, aluminate, stannate and columbate ions, the mole ratio of silicate, expressed as SiO_2, to zincate, aluminate, stannate or columbate, expressed as the corresponding metal oxide, being at least 1:1.

7. An aqueous dispersion, which is stable against gelation for at least one day, the dispersion comprising a molecularly homogeneous sol containing synthetic, colloidal silica associated with a synthetic colloidal hydrous oxide of a metal selected from the group consisting of zinc, aluminum, tin, and columbium, the mole ratio of silica, expressed as SiO_2, to hydrous metal oxide being at least 1:1.

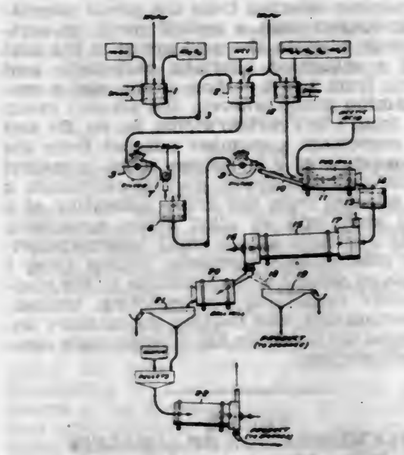
2,657,184

ALUMINA GEL-CONTAINING CATALYSTS

Kenneth D. Ashley, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application March 10, 1950, Serial No. 148,979

6 Claims. (Cl. 252—465)



1. A method of producing alumina gel-containing catalyst of high surface activity which comprises precipitating aluminum hydroxide from an alkali metal aluminate solution by reacting it with a mineral acid while maintaining the pH of the reaction mixture between 5.8 and 8.5, filtering and washing the aluminum hydroxide so produced thereby forming a filter cake containing between 10% and about 20% solids, mixing the resulting filter cake containing between 10% and about 20% solids with a quantity of a water-soluble organic acid within the range of 0.5–2 mols for each mol of Al_2O_3 in the filter cake, incorporating 2–30% of an oxide of a polyvalent metal selected from the fifth and sixth groups of the periodic system into the resulting peptized aluminum hydroxide paste, and calcining the product.

2,657,185

BLENDS OF ELASTOMERS WITH MODIFIED PHENOLIC RESINS

David W. Young, Roselle, and Raymond G. Newberg, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application August 19, 1948, Serial No. 45,266

11 Claims. (Cl. 260—17.2)

1. A composition of matter comprising 30 to 60 parts of a resin prepared by condensing formaldehyde with an aliphatically substituted phenol having as its only substituent a C_{10} to C_{21} hydrocarbon side chain selected from the group consisting of alkyl radicals, monoolefinic radicals and diolefinic radicals; in combination with 70 to 40 parts of a solid rubbery copolymer of 20 to 35 percent of acrylonitrile and 80 to 65 percent of butadiene-1, 3, the resin having been incorporated in the copolymer while the resin was in a fusible state.

2,657,186

COMPOSITION COMPRISING A POLYVINYL CHLORIDE RESIN, A PLASTICIZER AND A VISCOSITY CONTROLLING AGENT

David X. Klein, Passaic, and Mark N. Curgan, Clifton, N. J., assignors to Heyden Chemical Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application October 12, 1949, Serial No. 121,062

8 Claims. (Cl. 260—23)

1. A polyvinyl chloride resin composition containing a plasticizer, said composition having its viscosity lowered by an agent selected from the group consisting of long chain fatty acid esters of polyoxyalkylenes, long chain fatty ethers of polyoxyalkylenes, partial long chain fatty acid esters of polyoxyalkylene ethers of polyhydric alcohols, polyoxyalkylenes having an average molecular weight of at least 1500, and nuclear long chain alkylated polyoxyalkylene ethers of phenols.

2,657,187

DILUTE ALKALI DISPERSIBLE HOT MELT BOOKBINDING ADHESIVES

John Lloyd Evans, South River, and Dominic Donald Micucci, New Brunswick, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 8, 1949, Serial No. 131,998

7 Claims. (Cl. 260—30.8)

1. A hot melt adhesive which is dispersible in a .05% aqueous alkali solution which comprises one part of a copolymer of from 90 to 98 parts of vinyl acetate and 10 to 2 parts of crotonic acid; and from ½ to 2 parts of a liquefying softener consisting essentially of a methylated diaryl sulfone having at least one but not more than two methyl substituents on each aryl group.

2,657,188

OLEFIN-VINYL ACETATE COPOLYMERS AND VINYL RESINS PLASTICIZED THEREWITH

Walter A. Denison, South Charleston, and William N. Steops, Charleston, W. Va., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application October 2, 1948, Serial No. 52,586

13 Claims. (Cl. 260—31.2)

1. A liquid copolymer of vinyl acetate with a mono-olefin having from two to four carbon

atoms, said copolymer containing from 60 to 80% by weight combined vinyl acetate and having an average molecular weight from 350 to 1200.

2,657,189

DILUTE ALKALI DISPERSIBLE HOT MELT BOOKBINDING ADHESIVES

Paul Swithin Pinkney, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 8, 1949, Serial No. 131,900
3 Claims. (Cl. 260—32.8)

1. A thermoplastic adhesive composition which is characterized by the retention of its thermoplastic properties after it has been heated to 160° C. for an extended period of time, which comprises one part of a copolymer of from 90 to 98 parts of vinyl acetate and 10 to 2 parts of crotonic acid, and from ½ to 2 parts of a liquefying softener consisting essentially of a chlorinated diphenyl.

2,657,190

BLENDS OF POLYBUTADIENE AND BUTADIENE-ACRYLONITRILE COPOLYMER

Fred W. Banes, Westfield, Albert M. Gessler, Cranford, and Wilbur F. Fischer, Roselle Park, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application October 1, 1948, Serial No. 52,422
4 Claims. (Cl. 260—41.5)

1. An oil-resistant rubber composition having a swelling index of less than 2.5 under standard conditions and consisting of 50 to 85 parts by weight of a rubbery emulsion copolymer of 60 to 75 weight percent of butadiene-1,3 and of 40 to 25 weight percent of acrylonitrile, said rubber emulsion copolymer having a Mooney viscosity between 40 and 200; and 50 to 15 parts by weight of a vulcanizable, emulsion-polymerized rubber-like homopolymer of a conjugated C_4 to C_5 diolefin, said homopolymer being characterized by a Mooney viscosity between 17 and 75.

2,657,191

POLYMERIZATION OF ACRYLONITRILE IN THE PRESENCE OF PREFORMED INTERPOLYMERS

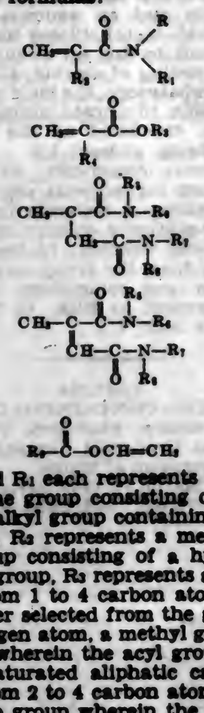
Harry W. Coover, Jr. and Joseph B. Dickey, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application December 1, 1950, Serial No. 198,762
18 Claims. (Cl. 260—45.5)

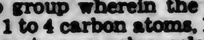
1. A process for preparing resinous compositions comprising heating in the presence of a polymerization catalyst a dispersion containing as the sole polymerizable monomers from 1 to 10 parts by weight of a monoethylenically unsaturated, polymerizable, organic compound containing a

—CH=C<

group and from 1 to 10 parts by weight of a different monomeric compound selected from the group consisting of those represented by the following general formulas:



and



wherein R and R_1 each represents a member selected from the group consisting of a hydrogen atom and an alkyl group containing from 1 to 4 carbon atoms, R_2 represents a member selected from the group consisting of a hydrogen atom and a methyl group, R_3 represents an alkyl group containing from 1 to 4 carbon atoms, R_4 represents a member selected from the group consisting of a hydrogen atom, a methyl group, an acylamino group wherein the acyl group is the acyl group of a saturated aliphatic carboxylic acid containing from 2 to 4 carbon atoms, and a carbalkoxylamino group wherein the alkoxyl group contains from 1 to 4 carbon atoms, R_5, R_6, R_7, and R_8 each represents a member selected from the group consisting of a hydrogen atom, a methyl group, and an ethyl group, and R_9 represents a member selected from the group consisting of a hydrogen atom and an alkyl group containing from 1 to 3 carbon atoms, until interpolymerization is substantially complete, adding from 1 to 20 parts by weight of acrylonitrile to the reaction mixture containing the resulting, unseparated interpolymer, and heating the mixture until the added acrylonitrile has substantially completely polymerized.

2,657,192

POLYMERIZATION OF ACROLEIN

Henry C. Miller, Claymont, and Henry S. Rothrock, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 25, 1951, Serial No. 207,837
6 Claims. (Cl. 260—67)

1. A process for the preparation of acrolein polymers soluble and stable in dioxane and containing recurring acrolein, C_3H_4O, units in amount at least 5% by weight of the polymer which comprises polymerizing a monomeric composition consisting of monomers containing, as their sole carbon to carbon unsaturation, a single terminal $CH_2=C<$ group and thereby subject to addition polymerization and containing at least 5% by weight of acrolein, $CH_2=CH—CHO$, with the aid of a catalytic amount of a free radical producing, free radical addition polymerization initiating material in the presence of at least one mole, per mole of acrolein, of a neutral primary alcohol of not more than ten carbons.

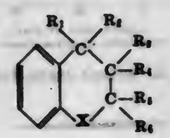
2,657,193

RESINOUS CONDENSATION PRODUCTS FROM AN ALDEHYDE OR KETONE WITH A CHROMAN, THIACHROMAN, COUMARAN, OR BENZODIHYDROTHIAFURAN

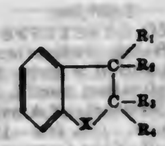
Herman S. Bloch, Chicago, and Howard E. Mammen, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application April 16, 1951, Serial No. 221,322
9 Claims. (Cl. 260—67)

9. The resinous condensation product of a carbonyl compound selected from the group consisting of aldehydes and ketones and a polycyclic compound having a structural formula selected from the group consisting of



and



wherein R_1 to R_6 are selected from the group consisting of hydrogen and saturated hydrocarbon substituents and X is selected from the group consisting of oxygen and sulfur.

2,657,194

LINEAR POLYESTERS FROM STILBENE DICARBOXYLIC ACIDS

Judson C. Butler, Concord, and Douglas C. McGowan, Richmond, Calif., assignors to California Research Corporation, San Francisco, Calif., a corporation of Delaware

No Drawing. Application March 25, 1950, Serial No. 151,984
16 Claims. (Cl. 260—75)

1. A fiber-forming linear polymer which comprises the heat reaction product of reactants comprising (a) a stilbene dicarboxylic acid compound of the group consisting of its acids, esters and acid chlorides and (b) at least one bifunctional compound of the group consisting of polyoxyalkylene glycols having the formula

H—(—O—R—)$_x$—OH

where R is an alkylene radical of from about 2 to 6 carbon atoms and x is an integer of from about 2 to 5.

2,657,195

LINEAR POLYMERS FROM STILBENE DICARBOXYLIC ACID

William G. Toland, Jr., Richmond, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware

No Drawing. Application March 25, 1950, Serial No. 151,992
16 Claims. (Cl. 260—75)

1. A fiber-forming linear polymer which comprises the heat reaction product of reactants comprising (a) a member of the group consisting of stilbene dicarboxylic acid, its esters and amine salts, and (b) at least one bifunctional compound of the group consisting of glycols, diamines and amino alcohols having the formulae

HO—R—OH, H_2N—R—NH_2 and HO—R—NH_2

wherein R is a member of the group consisting of alkylene, cycloalkylene, arylene and aralkylene radicals of from about 2 to 16 carbon atoms.

2,657,196

PRODUCTION OF POLYAMINOTRIAZOLES

James Wotherspoon Fisher, Harold Bates, and Edward William Wheatley, Spondon, near Derby, England, assignors to British Celanese Limited, a corporation of Great Britain

No Drawing. Application June 28, 1950, Serial No. 170,956. In Great Britain July 7, 1949
4 Claims. (Cl. 260—78.4)

1. Process for the production of nitrogen-containing polymers resistant to acid hydrolysis, which comprises heating a reaction mixture, which reaction mixture contains monomeric reagents which yield on complete hydrolysis a dicarboxylic acid free from reactive groups other than the carboxy groups and two moles of hydrazine for each mole of dicarboxylic acid, in presence of water and in a pressure vessel closed throughout the operation until an acid-resistant polymer is produced.

2,657,197

COPOLYMERS OF VINYLIDENE CYANIDE WITH UNSATURATED ALIPHATIC CARBOXYLIC ACIDS

Earl J. Carlson, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application June 11, 1952, Serial No. 293,000
11 Claims. (Cl. 260—78.5)

1. A copolymer of monomers consisting of vinylidene cyanide and olefinically-unsaturated aliphatic carboxylic acid containing at least one activated olefinic carbon-to-carbon double bond, the vinylidene cyanide units in said copolymer being derived from monomeric vinylidene cyanide which is a crystalline solid at 0° C., having a melting point when in purest form of substantially 9.0° C. to 9.7° C. and being characterized chemically by the ability to undergo on contact with water at room temperature an instantaneous homopolymerization reaction to give a solid water-insoluble resin.

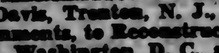
2,657,198

DISULFIDE RING COMPOUNDS AND POLYMERIZATION THEREOF

Franklin O. Davis, Trenton, N. J., assignor, by mesne assignments, to Reconstruction Finance Corporation, Washington, D. C., a corporation of the United States

No Drawing. Application August 2, 1951, Serial No. 240,067
1 Claim. (Cl. 260—79.1)

Process which comprises treating a monomeric disulfide having the general formula



where Z is a member of the group consisting of O, S, —OCH_2O—, —SCH_2S—, —OC_2H_4O—, —SC_2H_4S—, and —CH_2— with from 0.05 to 10 percent of a catalyst of the group consisting of alkali alcoholates, ammonia, alkyl and aralkyl substituted ammonia compounds, alkyl and aralkyl substituted ammonium compounds, and alkaline sulfides, hydrosulfides and polysulfides.

2,657,199

INTERPOLYMERS OF A DIFLUORODICHLOROETHYLENE, A 1,3-BUTADIENE HYDROCARBON AND VINYLIDENE CHLORIDE

Vernon L. Folt and Earl J. Carlson, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application June 3, 1952, Serial No. 291,579
6 Claims. (Cl. 260—80.7)

1. A plastic interpolymer prepared by polymerizing a monomeric mixture comprising 25 to 45 mol percent of a 1,3-butadiene hydrocarbon, 35 to 55 mol percent of a difluorodichloroethylene and 10 to 35 mol percent vinylidene chloride.

2,657,200

COPOLYMERS OF ACETYLENE WITH CERTAIN VINYLIDENE COMPOUNDS

Frank Clifton McGrew, Wilmington, Del., and Paul Swithin Pinkney, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 3, 1950, Serial No. 188,272
13 Claims. (Cl. 260—85.5)

4. A macromolecular copolymer of acetylene with a polymerizable vinylidene compound having but one vinylidene group and selected from the class consisting of acrylic and alpha-alkacrylic acid esters and nitriles of said acids, vinyl ketones, and vinylidene compounds having an aryl radical attached to one of the free valences of the vinylidene group, said copolymer containing 5–50 mole per cent combined acetylene, the remainder being, in combination, said vinylidene compound.

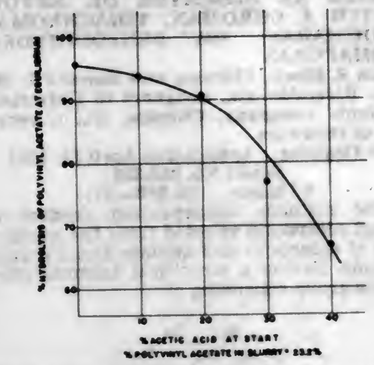
2,657,201

CONTROLLED, HETEROGENEOUS HYDROLYSIS OF POLYMERIC ESTERS

Richard Wilson Nebel, Waynesboro, Va., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

Application November 25, 1949, Serial No. 129,220
5 Claims (Cl. 260—91.3)

1. A process for the production of a low viscosity, partial hydrolysis product of a water-insoluble carboxylic acid ester of polyvinyl alcohol, said partial hydrolysis being no more than about 90% of theoretical, which comprises heating and stirring until equilibrium is established, a heterogeneous aqueous dispersion containing of from about 23.2% to about 25.7% of said ester and a lower alkyl carboxylic acid containing no more than 9 carbon atoms, which constitutes, at the lower concentration of ester, at least about 20% of the aqueous dispersion, and at the higher concentration of ester, at least about 12.4% of the aqueous dispersion and from about 0.1% to about 2.0% of a catalyst from the group consisting of sulfonic, phosphinic and phosphonic acids containing at least 5 carbon atoms, and the mono- and dialkyl orthophosphoric acid esters, the alkyl groups of which have from three to ten carbon atoms.



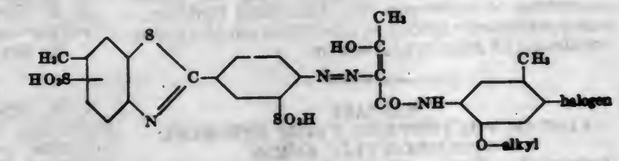
2,657,202

AZO DYESTUFFS

Eduard Moser, Basel, Switzerland, assignor to Ciba Limited, a Swiss firm

No Drawing. Application April 8, 1949, Serial No. 86,401. In Switzerland April 16, 1948
6 Claims. (Cl. 260—158)

1. An azo-dyestuff of the formula



wherein the alkyl group contains at most 2 carbon atoms and the halogen is a member selected from the group consisting of chlorine and bromine.

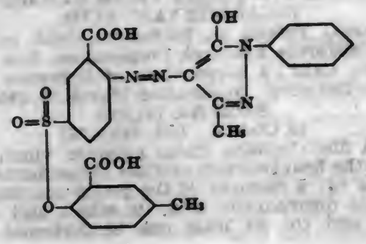
2,657,203

MONOAZO DYESTUFFS OF THE PYRAZOLONE SERIES

Willy Widmer, Bottmingen, and Alfred Fasciati, Basel, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application June 1, 1950, Serial No. 165,606. In Switzerland July 18, 1949
9 Claims. (Cl. 260—162)

7. The azo dyestuff of the formula



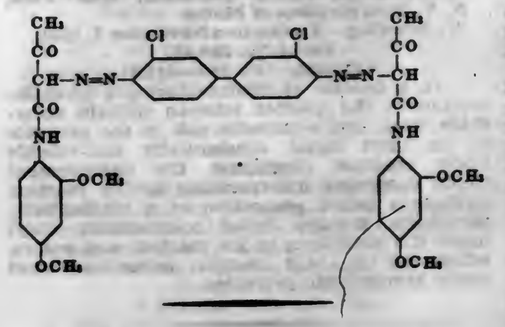
2,657,204

AZO PIGMENT

John De Lucia, Bronx, N. Y., and Robert Eitenhead, Fort Lee, N. J., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio

No Drawing. Application July 20, 1951, Serial No. 239,289
1 Claim. (Cl. 260—176)

The compound having the formula:



2,657,205

DYES CONTAINING A VINYL SULFONE

Johannes Heyna, Frankfurt am Main Unterliederbach, and Wilhelm Schumacher, Frankfurt am Main, Germany, assignors to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius und Bruning, Frankfurt am Main Hochst, Germany, a German company

No Drawing. Application December 20, 1950, Serial No. 201,859. In Germany January 9, 1950
8 Claims. (Cl. 260—185)

1. Dyestuffs, selected from the class consisting of azo-dyestuffs, nitro-dyestuffs, anthraquinone-dyestuffs and triphenyl-methane-dyestuffs, containing at least one sulfonic acid group and the grouping

$$(-SO_2-CR=CH_2)_n$$

wherein R stands for a member of the group consisting of hydrogen, alkyl and bromine and n stands for one of the numbers 1 and 2.

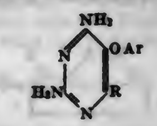
2,657,206

2,4-DIAMINO-5-ARYLOXY-PYRIMIDINES

George H. Hitchings, Tuckahoe, Peter Byrom Russell, Crestwood, and Elvira A. Falco, New Rochelle, N. Y., assignors to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y., a corporation of New York

No Drawing. Application July 20, 1951, Serial No. 239,414
6 Claims. (Cl. 260—256.4)

1. As a new compound a substituted pyrimidine of the formula



wherein R constitutes a radical selected from the group consisting of H and lower alkyl radicals and wherein Ar constitutes an aryl radical having from 6 to 13 carbon atoms and contains a maximum of two rings.

2,657,207

PREPARATION OF ISOCINCHOMERONIC ACID

Henry Henderson Herring, Jr., Woodbury, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 27, 1951, Serial No. 213,057
4 Claims. (Cl. 260—270)

1. A process for the preparation of metal salts of isocinchomeronic acid, which comprises heating at a temperature above 140° C. and under superatmospheric pressure a 2,5-dialkylpyridine, nitric acid of a concentration between 10 and 60%, and a compound capable of yielding in the reaction medium ions of a bivalent metal taken from the group consisting of copper, zinc, and nickel, said compound being present in an amount greater than that necessary to provide 0.5 gram atom of metal for each mole of 2,5-dialkylpyridine, thereby forming metal diisocinchomeronate.

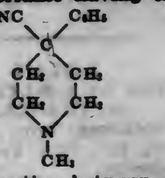
2,657,208

PROCESS FOR PREPARING 1-METHYL-4-PHENYL-4-CYANOPIPERIDINE

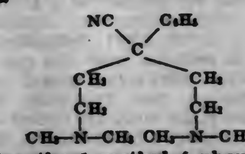
Frederick F. Blicke, Ann Arbor, Mich., assignor to Regents of The University of Michigan, Ann Arbor, Mich., a corporation of Michigan

No Drawing. Application December 3, 1951, Serial No. 259,715
3 Claims. (Cl. 260—293)

1. The process for preparing 1-methyl-4-phenyl-4-cyanopiperidine having the formula



which comprises heating between about 200° C. and 350° C. and acid-addition salt of bis(beta-dimethylaminoethyl)phenylacetonitrile having the formula



and isolating the 1-methyl-4-phenyl-4-cyanopiperidine thus produced.

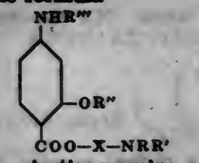
2,657,209

TERTIARY-AMINOALKYL 4-ALKYLAMINO-2-ALKOXY-BENZOATES AND THEIR SYNTHESIS

Raymond O. Clinton, Rensselaer, and Stanley C. Laskowski, Menands, N. Y., assignors to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application June 17, 1950, Serial No. 168,844
18 Claims. (Cl. 260—294.3)

1. A member of the group consisting of a basic ester having the formula



where NRR' is a tertiary-amino radical selected

from the group consisting of lower dialkylamino, 1-piperidyl, (lower alkylated)-1-piperidyl, 1-pyrrolidyl, (lower alkylated)-1-pyrrolidyl and 4-morpholinyl, X is a lower alkylene radical having 2–4 carbon atoms, and R'' and R''' are lower alkyl radicals, and acid-addition salts thereof.

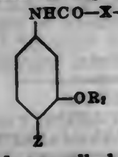
2,657,210

4-(TERTIARY-AMINOALKANOYLAMINO)-2-ALKOXYBENZOIC ACID DERIVATIVES AND THEIR PREPARATION

Raymond O. Clinton, North Greenbush, N. Y., assignor to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application September 18, 1951, Serial No. 247,195
25 Claims. (Cl. 260—294.3)

1. A compound having the formula



where X is a lower alkylene radical, NRR_1 is a member of the group consisting of lower dialkylamino, 1-piperidyl, (lower alkylated)-1-piperidyl, 1-pyrrolidyl, (lower alkylated)-1-pyrrolidyl and 4-morpholinyl, R_2 is a member of the group consisting of a lower alkyl radical and the benzyl radical and Z is a member of the group consisting of COOH, $CONH_2$ and $COOR_3$ where R_3 is a lower alkyl radical.

2,657,211

PREPARATION OF 1-METHYLPIPERIDYL-METHANOLS

Rolland F. Feldkamp, Troy, N. Y., assignor to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application September 12, 1951, Serial No. 246,339
4 Claims. (Cl. 260—294.7)

1. The process for preparing a 1-methylpiperidylmethanol which comprises catalytically hydrogenating a lower-alkyl pyridinecarboxylate using a catalyst selected from the group consisting of palladium, platinum, nickel and copper chromite, treating the resulting lower-alkyl piperidinecarboxylate with an excess of formaldehyde in the presence of hydrogen and a catalyst selected from the group consisting of palladium, platinum and nickel, heating the resulting lower-alkyl 1-methylpiperidinecarboxylate with sodium and a lower-alkanol having from 3–8 carbon atoms, and isolating the resulting 1-methylpiperidylmethanol.

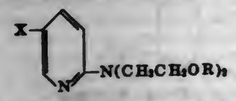
2,657,212

DIETHANOLAMINOPYRIDINES

Frederick Charles Copp, London, England, assignor to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y., a corporation of New York

No Drawing. Application October 18, 1951, Serial No. 252,000. In Great Britain October 19, 1950
4 Claims. (Cl. 260—295)

1. A compound of the formula



wherein X is a radical selected from the class consisting of the nitro group and chlorine and R is a radical of the class consisting of the lower aliphatic acyl radicals and hydrogen.

2,657,213

PROCESS OF MANUFACTURING PHTHALOCYANINES

Mitchell Dudnikov, Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application November 3, 1951, Serial No. 254,807
9 Claims. (Cl. 260—314.5)

1. In a process of manufacturing a phthalocyanine by the reaction between phthalic anhydride, urea, and a metallic salt in the presence of an inert liquid substantially non-volatile under reaction conditions, the improvement which comprises incorporating in the reaction mixture a minor proportion of a substantially anhydrous organic liquid substantially inert under the conditions of the reaction and boiling below 150° C., said reaction being conducted under atmospheric pressure.

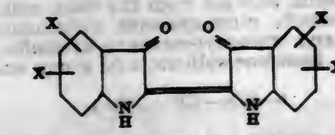
2,657,214

CHLOROMETHYL DERIVATIVES OF INDIGOS

David I. Randall, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application February 10, 1951, Serial No. 210,428
6 Claims. (Cl. 260—324)

1. A chloromethyl-substituted indigo compound of the formula



wherein X is a member of the group consisting of hydrogen, alkyl and halogen and wherein at least one chloromethyl group is substituted on the aryl moiety of the indigo molecule.

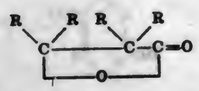
2,657,215

METHOD FOR THE PREPARATION OF NOVEL N-(2-CARBOXYALKYL) SUCCINIMIDES

Thomas H. Shelley, Spotswood, N. J., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application March 10, 1950, Serial No. 149,011
2 Claims. (Cl. 260—326.3)

1. The method of preparing an N-(2-carboxyalkyl) succinimide which comprises bringing together a salt of succinimide with a beta-lactone of the structure



wherein each R is a member of the class consisting of hydrogen and lower alkyl radicals whereupon chemical reaction occurs between said salt of succinimide and said beta-lactone, and then acidifying the resulting reaction mixture.

2,657,216

HALOGENATION OF BENZENES CONTAINING SULFUR IN THEIR ALLYLIC OR PROPENYLIC SIDE CHAINS AND PRODUCTS OBTAINED THEREBY

Olivier Gaudin, Neuilly-sur-Seine, France

No Drawing. Original application July 23, 1947, Serial No. 763,167. Divided and this application May 4, 1951, Serial No. 224,672. In Great Britain January 20, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires January 20, 1963
2 Claims. (Cl. 260—327)

1. As a new composition of matter, diiodotrithioparamethoxyphenylpropene having the formula $CH_3O—C_6H_4—C_3HS_3I_2$.

2,657,217

CORROSION INHIBITOR

Herbert E. Morris, Lamarque, Tex., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application April 8, 1950, Serial No. 154,876
3 Claims. (Cl. 260—329)

1. The process of preparing compositions for inhibiting aqueous mineral acid solutions against corrosiveness to metals which comprises reacting a mixture of approximately equimolecular proportions of a normally liquid aromatic hydrocarbon having attached to the aromatic nucleus at least one alkyl group of at least one to five carbon atoms, thiophene, and a Friedel-Crafts metal halide catalyst by boiling under reflux conditions and hydrolyzing the tar-like complex thus formed.

2,657,218

METHOD FOR THE PREPARATION OF VISNAGIN FROM CHELLOL AND NEW COMPOSITIONS OF MATTER

Theodore A. Geissman, Los Angeles, Calif.

No Drawing. Application July 30, 1951, Serial No. 239,378
8 Claims. (Cl. 260—345.3)

1. The method of preparing visnagin which comprises esterifying chellol by reacting chellol with a sulfonyl halide, replacing the sulfonyl radical of the sulfonyl ester with a halogen by reacting the ester with an alkali metal halide, and reducing the chellol halide so formed to visnagin.

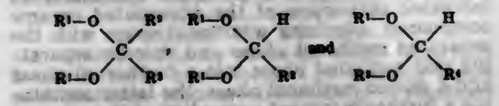
2,657,219

VITAMIN A ACETALS

Otto Isler and Nathan Chadwick Hindley, Basel, and Paul Zeller, Neu-Allschwil, Switzerland, assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application January 22, 1950, Serial No. 141,158. In Switzerland May 11, 1949
6 Claims. (Cl. 260—345.9)

1. A compound selected from the class consisting of those having the formulas



wherein R^1 represents an axerophthyl radical, R^2 represents a lower alkyl radical, and R^3 and R^4 together represent a tetramethylene radical.

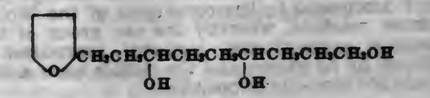
2,657,220

HYDROGENATION DERIVATIVES OF DIFURFURALACETONE

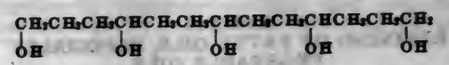
Klieth Alexander and Lester E. Schniepp, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application June 22, 1951, Serial No. 232,026
5 Claims. (Cl. 260—347.3)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A compound selected from the group consisting of



and



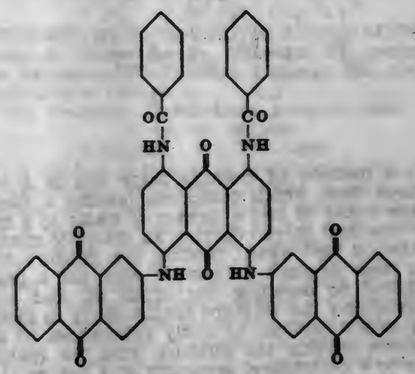
2,657,221

VAT DYESTUFF

Jacob Koch, Basel, and Walter Kern, Sissach, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application May 22, 1950, Serial No. 163,571. In Switzerland July 21, 1949
1 Claim. (Cl. 260—368)

The vat dyestuff of the formula



2,657,222

2,6-DI-TERTIARY ALKYL QUINONES AND PROCESS OF PREPARING SAME

Charles F. H. Allen and Donald M. Burness, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application April 28, 1951, Serial No. 223,644
8 Claims. (Cl. 260—396)

1. A method for preparing a 2,6-di-tert.-alkylquinone which comprises oxidizing a 4-acetoxy-3,5-di-tert.-alkyltoluene the tertiary alkyl groups of which each contain from 4 to 5 carbon atoms, in a solution of glacial acetic acid and acetic anhydride in the presence of sulfuric acid and chromic anhydride.

2,657,222

PROCESS FOR THE PREPARATION OF COMPOUNDS WITH SEMICYCLIC DOUBLE BOND

Leopold Ruzicka and Oskar Jeger, Zurich, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.

No Drawing. Application October 4, 1949, Serial No. 119,574. In Switzerland October 11, 1948

6 Claims. (Cl. 260—397.5)

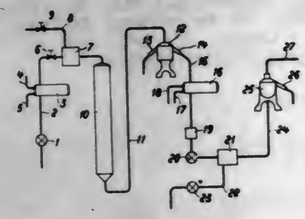
1. A process for the preparation of a compound with a semi-cyclic double bond, which comprises subjecting an $\alpha:\beta$-unsaturated cyclo-alkenyl carbonyl compound to the conditions of the Wolff-Kishner reaction, whereby the oxo group of the aforesaid cyclo-alkenyl carbonyl compound is replaced by hydrogen and the double bond shifted into the semi-cyclic position.

2,657,224

REFINING OF FATTY OILS, ESPECIALLY VEGETABLE OILS

Svante F. N. Bierke, Lidingo, Sweden, assignor to Aktiebolaget Separator, Stockholm, Sweden, a corporation of Sweden

Application September 9, 1950, Serial No. 183,970
In Sweden September 29, 1949
6 Claims. (Cl. 260—425)



1. A method of refining fatty oils in a continuous flow, which comprises feeding a stream of the crude oil and a stream of water to a mixing zone and there effecting an intimate mixture of the oil and water, feeding the mixture from said zone through a reaction zone for a period sufficient to de-slime the crude oil and while maintaining the mixture continuously in motion to prevent settling of slimy substances in said mixture, passing the mixture from the reaction zone to a centrifugal separator at a temperature of at least 70° C. and there separating it into a water-phase rich in slimy substances and a substantially slime-free oil-phase, separately discharging said phases from the separator, deaerating the oil-phase, feeding to a second mixing zone, under pressure, a stream of the oil-phase at substantially said temperature and a stream of a neutralizing agent for the free fatty acids in the oil, quickly and intimately mixing said agent and oil phase in the second mixing zone under a superatmospheric pressure for a period not exceeding 2 to 5 seconds, passing the mixture from said last zone through a closed path into a hermetic centrifugal separator and there separating it into a soapstock-phase and a refined oil phase, and separately discharging said last phases from the hermetic separator, the maximum period elapsing from the moment the oil is mixed with said agent until the refined oil phase is discharged from the hermetic separator being approximately 40 seconds.

2,657,225

PROCESS FOR MAKING TETRAETHYL LEAD

Nelson Whitman, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 14, 1953, Serial No. 271,630

4 Claims. (Cl. 260—437)

1. In the process for making tetraethyl lead by the reaction of ethyl chloride on lead monosodium alloy, the improvement which comprises carrying out such reaction in the presence of from about 0.1% to about 0.4% by weight of acetone and of from about 0.005% to about 0.06% by weight of acetylene, both based on the weight of ethyl chloride present.

2,657,226

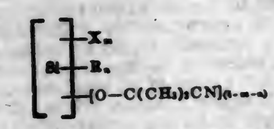
NOVEL CYANOALKOXY SILANES

Kurt C. Frisch, Pittsfield, Mass., and Milton Wolf, Syracuse, N. Y., assignors to General Electric Company, a corporation of New York

No Drawing. Application November 22, 1952, Serial No. 322,149

6 Claims. (Cl. 260—448.8)

1. A composition of matter comprising a compound corresponding to the general formula



where R is a monovalent hydrocarbon radical, X is a halogen, m and n are each whole numbers equal to from 0 to 3, the sum of m and n being, at most, equal to 3.

2,657,227

REMOVAL OF OXYGENATED ORGANIC COMPOUNDS FROM HYDROCARBONS

Raymond M. Burgison and Sylvan E. Forman, Baltimore, and Donald G. Zink, Linthicum, Md., assignors, by mesne assignments, to National Distillers Products Corporation, New York, N. Y., a corporation of Virginia

No Drawing. Application October 18, 1947, Serial No. 780,750

7 Claims. (Cl. 260—450)

1. The process of separating oxygenated organic compounds, such as, acids, alcohols, aldehydes, ketones, and esters, having an average molecular weight of at least 100, from the oil phase separated from the catalytic reaction product of carbon monoxide and hydrogen, said process comprising the steps of mixing methanol and water with said oil phase, the proportion of methanol used being within the range of ¼ volume to 2 volumes of methanol per volume of the oil phase and the proportion of water used being within the range of 0.03 to 0.1 volume of water per volume of water plus methanol, separating the resulting mixture to form a second oil phase and a methanol phase, the latter containing an increased proportion of the oxygenated organic compounds, admixing additional water with the separated methanol phase and thereby separating said methanol phase into a further oil phase and a second methanol phase, the latter containing a further increased proportion of the oxygenated organic compounds, the ratio of total methanol to total water added being not less than 70:30.

2,657,228

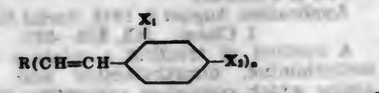
SULFONIC ACID ARYL ESTERS OF POLYARYLETHYLENE DERIVATIVES AND A PROCESS OF MAKING SAME

Heinrich Häusermann and Reinhard Zweidler, Basel, Switzerland, assignors to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm

No Drawing. Application March 5, 1951, Serial No. 214,014. In Switzerland August 13, 1948

12 Claims. (Cl. 260—456)

3. A nitrostyryl sulfonic acid arylester of the formula:



wherein R represents an aromatic radical, one of X_1 and X_2 represents a nitro group and the other represents a sulfonic acid arylester group and n represents one of the integers 1 and 2.

2,657,229

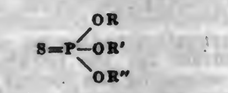
MANUFACTURE OF THIOPHOSPHATE ESTERS

Salvador F. Orochena, Pittsburgh, Pa., assignor to Pittsburgh Coke & Chemical Company, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application December 8, 1950, Serial No. 199,918

7 Claims. (Cl. 260—461)

1. A process for the manufacture of thiophosphoric acid derivatives having the general formula:



wherein R and R' are alkyl radicals and R'' is an organic radical selected from the group consisting of mono- and dicyclic aryl radicals, which comprises the steps of reacting a suspension of sodium metal in a liquid hydrocarbon having a boiling point above about 100° C. with a slight excess of up to 0.2 mols of an alkyl alcohol over the equimolecular proportion forming a complex mixture containing the corresponding sodium alkoxide, mixing thiophosphoryl chloride with the resulting reaction mixture in the proportion of between one and 2 mols of said sodium alkoxide compound for each mol of thiophosphoryl chloride in said reaction mixture, allowing said admixed materials to react forming a reaction mixture containing an alkoxy thiophosphoryl chloride compound, mixing a sodium salt of an aryl hydroxy compound of the general formula R''ONa, where R'' has the meaning stated above, with the resulting reaction mixture, allowing the mixed materials to react and recovering a thiophosphoric ester from the reaction mixture.

2,657,230

RESOLUTION OF LYSINE

Arthur O. Rogers, Lewiston, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 17, 1952, Serial No. 310,129

5 Claims. (Cl. 260—501)

1. In a process for resolving lysine in which L-lysine and D-lysine salts of an optically active acid glutamic acid are fractionally crystallized from a methanol-water solvent mixture, the improvement comprising carrying out the fractional crystallization at a temperature above 40° C.

2,657,231

PROCESS FOR PRODUCING ALKYLENE-BIS-DITHIO-ALKYLENE AND -ARYLENE-DI-CARBOXYLIC ACIDS

Joseph Klarer and Helmut Timmler, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application March 19, 1951, Serial No. 216,465. In Germany March 20, 1950

4 Claims. (Cl. 260—516)

1. Process for making a chemical compound represented by the formula:

YO.CO.R'.S.R.S.R'.CO.OY

wherein Y is a strongly basic cation, R is a short-chain alkylene group comprising at most 3 carbon atoms, R' is a radical chosen from the group consisting of short-chain alkylene and monohomocyclic arylidene radicals, that comprises heating together an ω-bis-S-isothioureidoalkylene of the formula:

$H_2N.C(:NH).S.R.S.C(:NH).NH_2$

and a compound of the formula:

X.R'.COOY

wherein X is a halogen, in an aqueous medium containing an excess of an alkali metal hydroxide, and recovering from the reaction mixture the desired reaction product of the formula first set forth above.

2,657,232

PROCESS FOR PREPARING AMINO ACIDS

Louise K. Berkenhagen, Chicago, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application June 13, 1950, Serial No. 167,936

7 Claims. (Cl. 260—529)

1. A method of preparing amino acids comprising chemically hydrolyzing native protein, neutralizing the protein hydrolysate mixture to provide a mixture containing amino acids, water, and salts of neutralization selected from the group consisting of sulfates and chlorides, removing a substantial portion of said water by drying, treating the mixture with a substantially dry ammoniacal alcohol solvent comprising from 1 to 15% by volume of gaseous ammonia dissolved in alcohol containing from 1 to 4 carbon atoms, and separating the solution from said salts.

2,657,233

PROCESS OF PREPARING DICARBOXYLIC ACID CHLORIDES

James E. Carnahan, New Castle, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 14, 1952, Serial No. 276,691

9 Claims. (Cl. 260—544)

1. The process of preparing dicarboxylic acid chlorides which comprises reacting a dicarboxylic acid with phosgene in the ratio of at least 2 moles of phosgene per mole of dicarboxylic acid, the reaction being carried out under a phosgene pressure of at least 10 atmospheres and at a temperature of at least 100° C. but below the decomposition point of the dicarboxylic acid chloride.

2,657,234

PREPARATION OF THIOSEMICARBAZIDES

Joseph Klarer and Robert Behnisch, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application November 21, 1950, Serial No. 196,946. In Switzerland December 12, 1949

2 Claims. (Cl. 260—552)

1. Process for making a chemical compound of the thiosemicarbazide series that comprises reacting, in an alkaline aqueous medium, a substance represented by the formula:

R.NH.C(:S).SX

wherein R is selected from the group consisting of hydrogen; mono-homocyclic aryl; substituted mono-homocyclic aryl wherein the substitution is at the cyclic nucleus and the substituent is of the group consisting of lower alkoxy and carboxy; sulfonylamido substituted mono-homocyclic arylalkyl; and mono-heterocyclic radicals having nitrogen as the sole hetero-atom; and X is a cation selected from the group consisting of ammonium, the alkali metal cations and the alkaline earth metal cations; with a substance of the group consisting of hydrazine and its water soluble simple inorganic mineral acid salts; and recovering from the reaction medium a substance represented by the formula:

R.NH.C(:S).NH.NH$_2$

where R has the meaning above assigned.

2,657,235

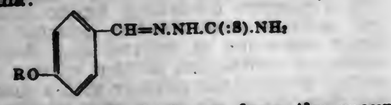
ARYLOXYBENZALDEHYDETHIOSEMICARBAZONES

Hans Schmidt, Wuppertal-Vohwinkel, and Fritz Mietzsch and Robert Behnisch, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application March 20, 1951, Serial No. 216,664. In Germany March 27, 1950

6 Claims. (Cl. 260—552)

1. A novel chemical compound represented by the formula:



wherein R is a radical chosen from the group consisting of phenyl, p-nitrophenyl, p-aminophenyl, p-acetaminophenyl and p-methoxyphenyl.

2,657,236

PREPARATION OF KETONE-DIARYLAMINE CONDENSATES

Ivan Mankowich, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application July 3, 1951, Serial No. 235,103

10 Claims. (Cl. 260—576)

1. In a method of preparing a composite product of condensation of an aliphatic ketone and a diarylamine, the improvement which consists in adding to the reaction mix, a chemical promoter which is selected from the class consisting of halogenated aliphatic organic acids, esters of halogen-containing aliphatic organic acids, and amides of halogenated aliphatic organic acids, wherein the organic acid in each instance has carboxyl attached to carbon of an alkyl group, and the halogen is from the class consisting of chlorine, bromine, and iodine, and heating the mix in the presence of said promoter.

2,657,237

PROCESS FOR THE SEPARATION AND RECOVERY OF METHYL AMINES

Robert M. Isham, Okmulgee, Okla., assignor, by mesne assignments, to Southern Production Company, Inc., Fort Worth, Tex., a corporation of Delaware

Application August 6, 1948, Serial No. 42,928

1 Claim. (Cl. 260—583)

A method of treating a mixture containing methylamine, dimethylamine and trimethylamine which comprises contacting the mixture with anhydrous tetramethylmethylenediamine in equimolecular proportion to the methylamine contained in said mixture under conditions which insure the selective reaction of the methylamine contained in the mixture with the tetramethylmethylenediamine to form thereby dimethylamine and trimethyltrimethylenetriamine; separating the trimethyltrimethylenetriamine from the dimethylamine and trimethylamine; contacting the separated di- and trimethylamine with formaldehyde in the proportion of one mol of formaldehyde to two mols of dimethylamine contained in the said separated mixture to convert thereby the dimethylamine to tetramethylmethylenediamine; separating unreacted trimethylamine from the reaction products; subjecting a portion of the formed tetramethylmethylenediamine to dehydration by countercurrently contacting the formed tetramethylmethylenediamine with a water insoluble solvent for the tetramethylmethylenediamine, separating the solvent phase from the water phase, recovering the tetramethylmethylenediamine from the solvent and recycling the dehydrated diamine for further reaction with the entering mixture and subjecting the remainder of the formed tetramethylmethylenediamine to hydrolysis to regenerate dimethylamine and formaldehyde and recovering said regenerated dimethylamine in purified form.

2,657,238

CATALYZED REACTIONS BETWEEN HYDROGEN SULFIDE OR DIMERCAPTANS AND DIALKENYL ETHERS OR POLYALKENYL AMINES

William E. Vaughan, Berkeley, and Denham Harman, Menlo Park, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application June 22, 1950, Serial No. 169,772

14 Claims. (Cl. 260—583)

13. The process which comprises heating a compound having the formula R—X—R with a compound selected from the group consisting of hydrogen sulfide and the aliphatic dimercaptans in the presence of from 1 to 10 mol per cent of an aliphatic amine and removing from the product so formed a fraction thereof volatilizing below about 100° C. at 5 cm. mercury pressure, the R's in said formula representing alkenyl radicals and the X representing a member selected from the group consisting of —O—, —S—, and



wherein R$_1$ is selected from the group consisting of the hydrogen atom and the monovalent organic radicals.

2,657,239

PREPARATION OF HEXAMETHYLENEDIAMINES

George W. Rigby, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 9, 1950, Serial No. 189,200

10 Claims. (Cl. 260—583)

1. Process of preparing a hexamethylenediamine which comprises reacting adipaldehyde in a liquid reaction medium with a compound of the formula



wherein R and R' are from the group consisting of hydrogen and alkyl, aryl, and cycloaliphatic radicals of 1 to 12 carbon atoms, inclusive, present in a proportion of at least two mols per mol of adipaldehyde, and hydrogen at a temperature of 25° C.–150° C. and a pressure of at least 100 lb./sq. in. in the presence of a hydrogenation catalyst.

2,657,240

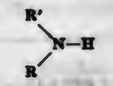
PREPARATION OF DIAMINES

Robert Everett Foster, New Castle, Del., and Herman K. Schroeder, Kennett Square, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 29, 1951, Serial No. 264,268

15 Claims. (Cl. 260—583)

1. Process of preparing an amine which comprises reacting a cyclohexene-ozone-alcohol reaction product with a compound of the formula



wherein R and R' are from the group consisting of hydrogen and monovalent hydrocarbon radicals of 1 to 7 carbon atoms, inclusive, and with hydrogen in the presence of a hydrogenation catalyst.

2,657,241

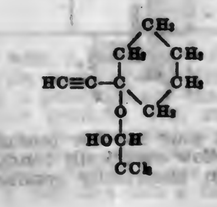
HEMIACETALS

George W. Mast, South Salem, and Floyd E. Anderson, Yonkers, N. Y., assignors to Nepera Chemical Co., Inc., Nepera Park, Yonkers, N. Y., a corporation of New York

No Drawing. Application May 21, 1952, Serial No. 289,216

5 Claims. (Cl. 260—611)

4. The novel hemiacetal of chloral having the formula:



2,657,242

PROCESS OF MAKING BUTANE-1,2,4-TRIOL

Sidney Siggia, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application July 28, 1949, Serial No. 105,891

3 Claims. (Cl. 260—635)

1. A process for the manufacture of substantially pure butane-1,2,4-triol which comprises hydrating but-2-yne-1,4-diol to butane-1,4-diol-2-one in the presence of mercuric sulfate at a temperature in the range of 40° to 90° C., catalytically hydrogenating the resulting mixture under elevated temperature and pressure to form a mixture containing butane-1,2,4-triol, extracting the latter mixture with diethyl ether, and recovering substantially pure butane-1,2,4-triol from the raffinate.

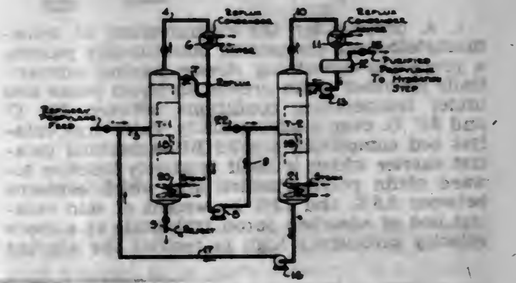
2,657,243

ISOPROPYL ALCOHOL PROCESS

Albert P. Giraitis and Mack C. Fuqua, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application September 15, 1948, Serial No. 49,450

5 Claims. (Cl. 260—641)



5. In the production of high quality isopropyl alcohol by hydration of propylene in the presence of sulfuric acid, the steps of separating by distillation a propylene-rich fraction containing between 0.1 and 1% by weight of C$_4$ hydrocarbons and from 0.05 to 0.15% C$_3$ acetylenes from a commercial propylene fraction, partially condensing under increased pressure from said propylene-rich fraction a condensate containing 10 to 60 weight per cent of C$_3$ hydrocarbons with a portion of the C$_4$ hydrocarbons and C$_3$ acetylenes so as to leave the remaining propylene-rich vapor fraction with a C$_4$ hydrocarbon content of less than 0.1 weight per cent and a C$_3$ acetylene content of less than 0.05 weight per cent.

2,657,244

AROMATIC SUBSTITUTED HALO-BUTYNES

Arthur Livingston Barney and Paul Swithin Pinkney, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 21, 1948, Serial No. 40,018

7 Claims. (Cl. 260—651)

1. A process wherein an aromatic diazonium halide

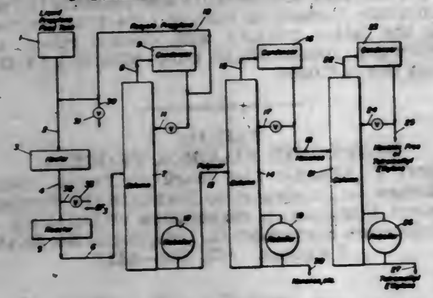
RN$_2$ Halogen

wherein R is a radical from the class consisting of aryl and nuclearly halogenated aryl radicals of the benzene and naphthalene series and each

halogen is of the class consisting of chlorine and bromine is reacted at a temperature of —10 to 70° C. in the presence of a cupric salt, with monovinylacetylene.

7. 3-chloro-4-phenyl-1-butyne.

2,657,245
PROCESS FOR THE MANUFACTURE OF TETRAMETHYLETHYLENE
John Barry Davidson, Grosse Ile, Mich., assignor to Sharples Chemicals Inc., a corporation of Delaware
Application May 28, 1949, Serial No. 96,112
6 Claims. (Cl. 260—683.15)



1. A process for the manufacture of tetramethylethylene comprising continuously passing a propylene-containing stream having substantially no other olefin present in liquid phase and under temperature conditions between 25° C. and 94° C. over a substantially water-free catalyst bed comprising a solid BF_3-adsorbing catalyst carrier which is itself relatively inactive toward olefin polymerization and which contains between 0.5% and 12% by weight of said catalyst bed of adsorbed boron trifluoride at a space velocity sufficiently high to restrict the amount of polymers formed per pass to less than 20% by weight of the total flow, and thereafter introducing the polymer-containing stream thus produced into an intermediate section of a fractionating column, in which the head temperature is maintained within 20° C. of the critical temperature of the distillate, and therein separating the feed into an overhead fraction comprising polymer-free propylene and a bottoms fraction comprising propylene-free polymer, combining said heads fraction with said propylene-containing stream for recycling, and simultaneously passing said bottoms stream into a second fractionating system wherein tetramethylethylene is separated from other constituents of said stream by fractional distillation.

2,657,246
SELECTIVE POLYMERIZATION OF ISOBUTYLENE
Helmuth G. Schneider, Westfield, and Hans G. Goering, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application April 21, 1950, Serial No. 157,400
9 Claims. (Cl. 260—683.15)

1. The process of selectively polymerizing isobutylene from its admixture with other olefins of 3 to 5 carbon atoms which comprises cooling and liquefying a hydrocarbon material consisting substantially of normal butenes, isobutene, and butane, the amount of isobutene being about 6 to 20% of the entire reaction mixture, and refluxing the cooled hydrocarbon material at 0° C. in the presence of 0.05% to 0.83% by weight, based on the feed, of solid, powdered, anhydrous aluminum chloride, whereby substantially complete polymerization of the isobutylene is obtained but substantially no other butenes are polymerized.

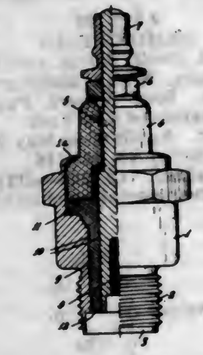
ELECTRICAL

2,657,247
HIGH-TEMPERATURE ELECTRIC FURNACE AND PROCESS OF OPERATION
Otto Bretschneider, Frankfurt am Main, Germany, assignor to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Frankfurt am Main, Germany, a corporation of the German Republic
Application October 5, 1950, Serial No. 188,565
In Germany October 5, 1949
8 Claims. (Cl. 13—31)



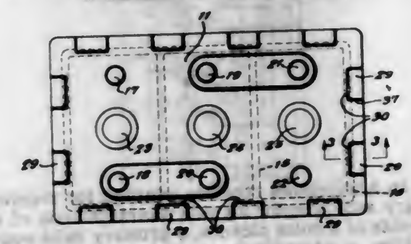
1. In an electric resistance furnace having an interior walled space serving to receive material to be heated, at least one self-sustaining non-metallic resistance element essentially forming the walls of the space serving to receive the material to be heated said resistance element being formed of a plurality of shaped bodies of a resistance material selected from the group consisting of graphite and metal carbides in contact with each other to provide joints which are transverse to the direction of electric heating current flowing through such resistance element, a gas-tight housing surrounding said walled space and means for evacuating said walled space.

2,657,248
BUSHING FOR SPARK PLUGS
Wytze Beye Smits, Veerburg, Netherlands, assignor to Smitsvonk N. V., Rijswijk, Netherlands
Application August 19, 1949, Serial No. 111,107
In the Netherlands June 27, 1949
3 Claims. (Cl. 123—169)



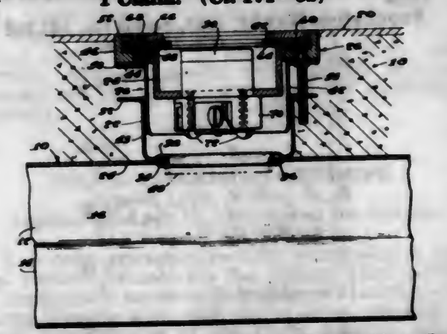
1. In a spark plug for low tension ignition, comprising a hollow electrically conductive body member and an electrically conductive axial member disposed within and spaced from the body member, a gas pressure resistant filling disposed in the space intermediate the body and the axial member, said filling comprising tightly packed pulverized electrically insulative material of relatively coarse grain mixed with a comparatively finely divided insulative powder, whereby upon application of gas pressure to the filling, the powder will tend to block the interstices between the relatively coarse grains thereby providing a labyrinth sealing effect and a low melting point vitreous material for melting only at the outer surfaces to retain the filling.

2,657,249
STORAGE BATTERY
Fred F. Kurth, Bakersfield, Calif.
Application April 16, 1951, Serial No. 221,205
2 Claims. (Cl. 136—166)



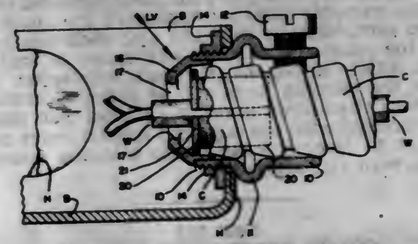
1. A storage battery including: a container for liquid electrolyte; a cover for said container formed as a single unitary member; said cover and said container provided along the sides and ends thereof with spaced grooves, which grooves are in alignment when the cover is on the container, and detachable spring clips bridging the cover and container and positioned within said grooves so as to lie in flush surface engagement with the cover and container and for maintaining the cover and the container in juxtaposition.

2,657,250
FLUSH TYPE OUTLET FIXTURE
Joseph William Wiesmann, Pittsburgh, Pa., assignor to H. H. Robertson Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 23, 1948, Serial No. 34,868
1 Claim. (Cl. 174—53)



For use with a metal wire distributing floor having wiring ducts, a flush type outlet fixture comprising a generally cup-shaped sheet-metal base member provided with an outwardly extended rim at its upper end and provided in its bottom wall with a relatively large opening and a downwardly turned flange surrounding the opening for insertion into a hole in the upper wall of the wiring duct and adapted to be crimped over the edge of the opening to form a bushing therefor and for securing the base member in operative position on the top of the duct, a hollow cylindrical body member telescopically fitted into said base member and having an integral, outwardly and upwardly extended annular rim at its upper end, both rims extending beyond said base and body members, means cooperating with said rims for adjustably supporting the body member upon and relative to the base member, a hollow cylindrical receptacle carrying member having an outwardly extended flange at its upper end secured to the rim of the body member and an electrical receptacle secured to said carrying member, the top of said receptacle being disposed below the top of said flange on the receptacle carrying member.

2,657,251
CABLE CONNECTOR
Martin D. Bergan, Westfield, N. J., assignor to The Thomas & Betts Co., Elizabeth, N. J., a corporation of New Jersey
Application January 21, 1950, Serial No. 139,929
3 Claims. (Cl. 174—65)

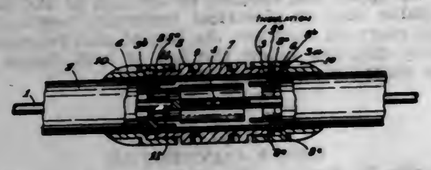


1. In a cable connector having a tubular metallic body, with its front end screw-threaded and thus adapted to be screw-fastened in a conduit box hole, and its rear end adapted to receive and grip a cable; the improvement which comprises a bushing made of insulation on the front end of the tubular metallic body, a limit-stop on the front end of the insulating bushing and against which the cable is adapted to abut, a throated passageway formed by the limit-stop and through which electrical wiring extends from the cable into the box; ears integrally formed in spaced relation around and on said front end of the tubular metallic body, said ears being formed below and hence inside the diameter of said screw threads, and said ears extending forwardly parallel with the axis of said body; together with grooves formed in spaced relation around the periphery of the insulating bushing, said grooves also being formed below and hence inside the diameter of the screw threads and in registry with the ears, and said ears being deformed into said grooves for permanently fastening the insulating bushing onto the front end of the tubular metallic body.

2,657,252
JOINT FOR COAXIAL ELECTRICAL CABLES
Raymond Charles Mildner, Oxhey, and Clive Edward Christopher Lovelace, Blackheath, London, England, assignors to Telegraph Construction & Maintenance Company Limited, London, England, a British company
Application February 27, 1950, Serial No. 146,563
In Great Britain February 28, 1949
7 Claims. (Cl. 174—88)

1. In a concentric conductor transmission line having adjacent lengths of tubular outer conduc-

tors having opposed ends, joined lengths of inner conductors therein, nuts surrounding opposed ends of said outer conductors and having internal chamfered faces, a coupling element between said opposed ends and being screw-threaded to said nuts and provided internally at each of its ends with a chamfered jointing surface, a split conductor sleeve shorter than and located within said coupling element and whose internal and external diameters are of the same dimension as those of the outer conductors, the opposite ends of said split sleeve being in abutting



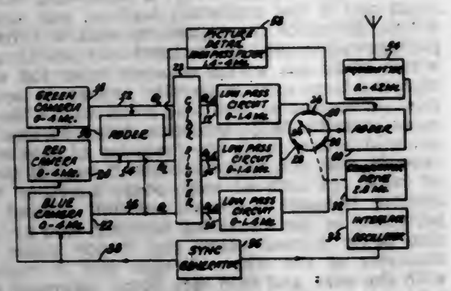
engagement with the adjacent ends of said outer conductors, said split sleeve enclosing the joint of the inner conductors, and packing rings each having an end engaged with the chamfered faces of the nuts for axial movement of the rings toward each other by the nuts; and each ring having the other end of knife-like shape so that on said axial movement through tightening the nuts, the packing rings will be deflected inwards by said chamfered jointing surfaces into biting engagement with the adjacent tubular outer conductor to force the same into abutting engagement with said sleeve.

2,657,253

COLOR TELEVISION SYSTEM

Alda V. Bedford, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application December 1, 1949, Serial No. 130,522
18 Claims. (Cl. 178—5.2)



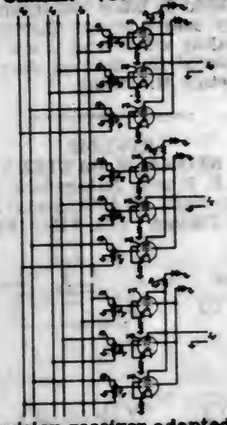
2. In a time division multiplexed reception system adapted to receive and time distribute a composite multiplex signal to a plurality of intelligence channels at a distribution rate corresponding to the sampling rate represented by said composite signal, a sampling component suppression circuit comprising in combination, means for time multiplex distribution of the received multiplex signal to a plurality of intelligence channel inputs, means for extracting predetermined amplitudes of signal intelligence from at least one intelligence channel to form intensifying signals, and means for impregnating, according to a fixed intensifying schedule, discrete levels of intensifying signals into at least one other intelligence channel.

2,657,254

COLOR TELEVISION SYSTEM

William T. Wintringham, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 20, 1950, Serial No. 163,271
6 Claims. (Cl. 178—5.4)



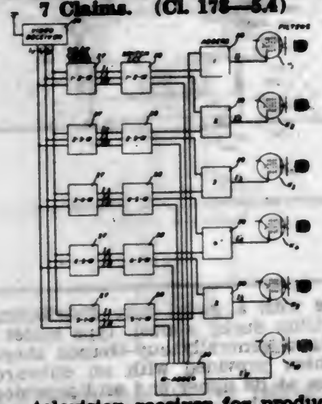
1. In a television receiver adapted for receiving ternary sets of color signals characteristic of the elements of a color picture, a primary light source of white, a plurality greater than two of other primary light sources of different colors, means for receiving a ternary set of transmitted color signals, a plurality of color coordinate transformers for transforming said received ternary set corresponding to one element of the color picture into a plurality of different colorimetrically equivalent ternary sets, each equivalent set controlling a different ternary combination of the white source and two of said different color sources, electrical circuit means for selecting therefrom one ternary set, and means utilizing the selected ternary set for actuating the controlled ternary combination of light sources.

2,657,255

COLOR TELEVISION SYSTEM

William T. Wintringham, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 20, 1950, Serial No. 163,272
7 Claims. (Cl. 178—5.4)



1. In a television receiver for producing color images from a ternary set of transmitted color television signals, a plurality exceeding three of light sources of different colors, means for producing

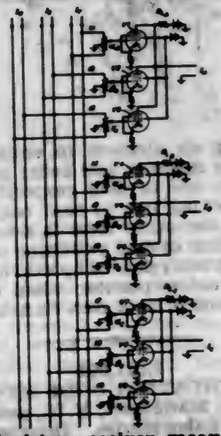
a ternary set of video signals, a plurality of color coordinate transformers for transforming the received ternary set into a plurality of colorimetrically equivalent ternary sets, each equivalent ternary set controlling a different ternary combination of said different color light sources, electrical circuit means for selecting from the plurality of ternary sets one ternary set, and means for utilizing the selected ternary set for energizing the light sources of the controlled ternary combination.

2,657,256

COLOR TELEVISION SYSTEM

William T. Wintringham, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 20, 1950, Serial No. 163,273
3 Claims. (Cl. 178—5.4)



1. In a television receiver, means for receiving a ternary set of color signals representative of an object scene, a plurality exceeding three of light sources serving as fundamental primaries, means for combining in predetermined ratios light from at least two of said sources for forming a plurality of composite primaries, color coordinate transformers for transforming an input ternary set corresponding to an element of the object scene into a plurality of colorimetrically equivalent ternary sets, each of said equivalent sets controlling a different ternary combination of composite and fundamental primaries, electrical circuit means for selecting one from said ternary sets, and means utilizing said selected ternary set for actuating the sources controlled thereby.

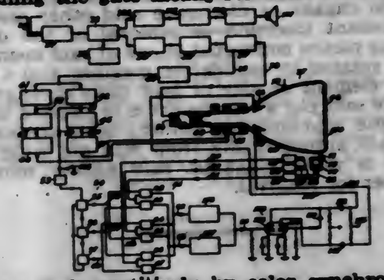
2,657,257

COLOR TELEVISION RECEIVER

Arnold Lesti, Nutley, N. J.

Application April 27, 1951, Serial No. 223,192
14 Claims. (Cl. 178—5.4)

1. A color television receiver comprising a signal receiver, a cathode ray picture tube having a luminescent screen with three sets of contiguous areas thereon with each set of areas adapted to emit light of one of the three primary colors when struck by the electron beam and the set of areas are arranged in substantially vertical strips and the color of the light emitted by any one strip being different from that emitted by adjacent strips, three photoelectric tubes each with an associated color filter for each of the three primary colors, means for allowing the light from the screen to reach the photoelectric tubes through their associated filter, a vertical and horizontal deflection circuit with means to deflect the electron beam for picture scanning, gate means adapted to be switched to pass or block signals from the photoelectric tubes, means to superimpose left-to-right or right-to-left motion on the electron beam in accordance with the switching of the gate means, means for switching the gate means for each color in se-



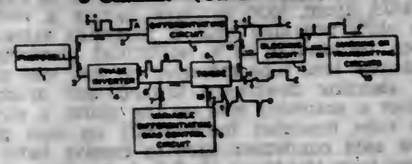
quence and repetitively by color synchronizing signals from the signal receiver whereby superimposed motion on the electron beam is from left-to-right if the beam strikes the color emitting strip immediately to the left of the color emitting strip for which said color synchronizing signals are set and the superimposed motion on the electron beam is right-to-left if the electron beam strikes the color emitting strip immediately to the right of the color emitting strip for which said color synchronizing signals are set.

2,657,258

FACSIMILE SYSTEM WHEREIN THE RECORDING IS A MODIFICATION OF THE COPY

Frank A. Hester, New York, N. Y., assignor to Faximile, Inc., New York, N. Y., a corporation of Delaware

Application January 18, 1951, Serial No. 206,689
5 Claims. (Cl. 178—6.6)



1. In a facsimile system; a source of substantially rectangular electrical signal pulses derived from the point by point and line by line scanning of graphic copy; differentiator circuit means receptive to pulses from said source and operative to convert said pulses to narrow pulses at the leading and trailing edges thereof; circuit means, also receptive to pulses from said source, selectively responsive to pulses of greater than a predetermined width and operative to cancel a leading portion of all pulses; and means for combining the outputs of said two circuit means; whereby said signal pulses of less than a predetermined width are translated to narrow pulses and signal pulses of more than the predetermined width are translated to pulses narrowed by a uniform small amount.

2,657,259

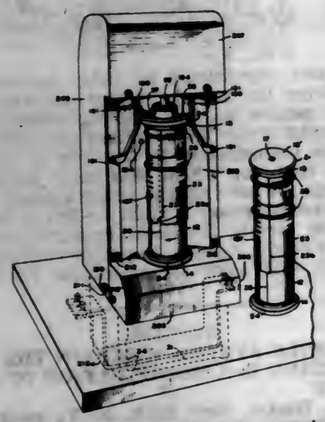
FACSIMILE TRANSMITTER

John H. Hackenberg, Flushing, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York

Application October 19, 1949, Serial No. 122,226
23 Claims. (Cl. 178—7.1)

1. A facsimile machine having supporting means for a rotary scanning drum which is pro-

vided with end disks, said supporting means including a pair of axially spaced members between which the drum is mounted, each disk having a central recess adapted to receive the associated member in a separable engagement, one of said members being spring mounted and axially movable when one end of the drum is manually pushed against it, whereby the other end of the drum is free to engage or disengage said other member for instant insertion or removal of the drum, driving means connected to one of said members, a pin rotated by said driven member, and a coupling element on one of said disks arranged to engage said pin when the drum is inserted in the machine, said coupling element being adapted to separate automatically from said pin when the drum is pushed against said axially movable member for removal.



22. In a facsimile machine, a rotary scanning drum mounted in vertical position, an optical scanning carriage supported for vertical sliding movement in operative relation to a blank on said drum, said carriage having a vertical side plate provided with a rearward extension which terminates in a horizontal platform, a condenser lens tube mounted on said side plate and slanting downward toward said drum to project a scanning spot on the blank, a pickup lens tube mounted horizontally on said plate below said condenser tube to receive light reflected from the blank, and a photocell mounted in vertical position on said horizontal platform to receive the scanning beam passing through said pickup tube.

2,657,260

APPARATUS FOR THE TRANSMISSION OF CURRENT PULSE COMBINATIONS, PARTICULARLY FOR TELETYPING

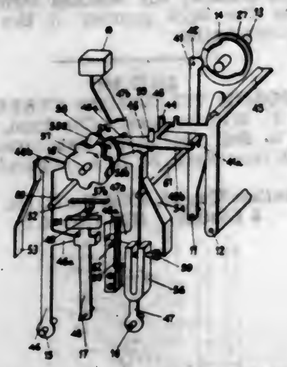
Otto Meser, Bern, Switzerland

Application December 10, 1952, Serial No. 325,163

In Switzerland December 14, 1951

7 Claims. (Cl. 178—17)

1. Apparatus for transmitting current-pulse combinations, particularly in teletypewriters, comprising selectively operable control means, a mechanical switching member reciprocable between two positions under control by said control means in accordance with the pulse combination to be issued, an electric contact device to be controlled by reciprocation of said switching member, two cam discs continuously revolvable during operation of said control means, each of said discs having cam flanks mutually spaced on the disc periphery in accordance with the pulse cycle periods, two movable switching levers engageable with the cam periphery of said responsive discs, said contact device having a movable switch part, and said levers having respective means engageable with said part for controlling said part in mutually opposing directions when the respective switching levers are controlled by said respective discs to move to an active position, and locking



means having an element in engagement with said switching member and being selectively engageable with one of said respective levers for alternately locking one of said respective levers and releasing the other lever in accordance with the reciprocation of said switching member, each of said levers when released by said locking means being in said active position when entering into the range of one of said cam flanks.

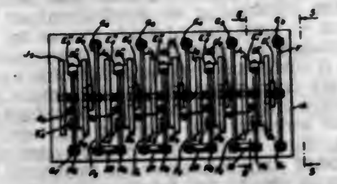
2,657,261

ERROR-INDICATING CODE MECHANISM

Wilton T. Rea, Manhasset, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 13, 1951, Serial No. 261,549

12 Claims. (Cl. 178—23)



10. In a telegraph system, a source of permutation code signals, comprising marking and spacing elements, a plurality of lever assemblies corresponding in number to the selecting signal elements less one, in a signal combination, each assembly comprising a primary and a secondary mounting plate, a sliding member arranged to move from one to another of several locations in a slot in said primary plate in response to two or more successive elements of a signal combination, a primary lever pivoted on one side and two studs obliquely disposed to each other and fixedly mounted on the other side of said sliding member, a secondary lever pivoted on said secondary plate, extending between said studs and movable to one of its operative positions by either of said studs when said sliding member is moved from an intermediate to either of its extreme locations, a pivotal connection between the secondary lever of one assembly and the primary lever of the next succeeding assembly, means effective upon the primary levers under the control of the elements of each signal combination for positioning the secondary lever of the last assembly in either of two positions to indicate conformity or nonconformity of said marking and spacing elements to a predetermined relationship.

2,657,262

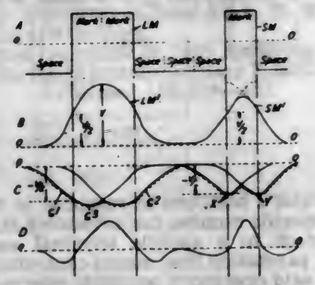
CARRIER TELEGRAPH SYSTEM

Hector Thomas Prior, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application September 18, 1951, Serial No. 247,065

In Great Britain September 22, 1950

7 Claims. (Cl. 178—69)



1. A receiving circuit for an amplitude modulated carrier telegraph system comprising means for deriving a first biassing potential wave from the received signal wave, means for deriving a second biassing potential wave from the received signal wave, means to advance the phase of said first biassing wave with respect to the phase of the received signal wave, means to retard the phase of said second biassing wave with respect to the phase of the received signal wave, and means coupled to said biassing potential wave deriving means for applying to said received signal wave whichever of said biassing waves is of greater amplitude at any given instant.

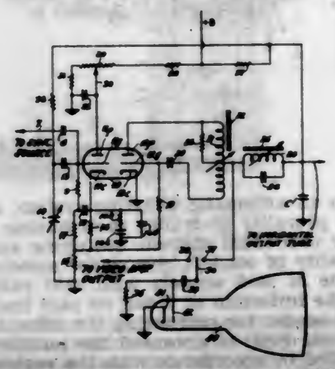
2,657,263

TELEVISION RECEIVER ADJUSTING SYSTEM

Leopold M. Kay, New York, N. Y., assignor to CBS-Columbia Inc., a corporation of New York

Application April 18, 1951, Serial No. 221,673

5 Claims. (Cl. 178—69.5)



1. In a television receiver having a video amplifier and a cathode ray tube with a grid, connections from the output of said amplifier to the grid of said tube means for producing a non-picture voltage the value and shape or form of which is an indication of the condition of adjustment in said receiver, connections from a circuit point in said non-picture voltage producing means to said grid, and a switch for selectively opening either of said connections and closing the other, whereby said tube may be selectively used either as a picture tube or as an oscilloscope in testing the condition of said receiver.
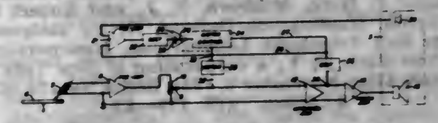
2,657,264

AUTOMATIC VOLUME CONTROL

Herbert W. Augustadt, Westfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application September 17, 1949, Serial No. 116,297

8 Claims. (Cl. 179—1)



1. In an electrical sound program system of variable gain reproducing a sound program in a noisy listening area, means for controlling the gain of the system in accordance with the noise level in the area preceding the program comprising means to detect the presence of program power in the system, a switching device, means whereby said switching device is controlled by said detecting means, disabling circuits for said gain controlling means, and means whereby said disabling circuits are controlled by said switching device.

2,657,265

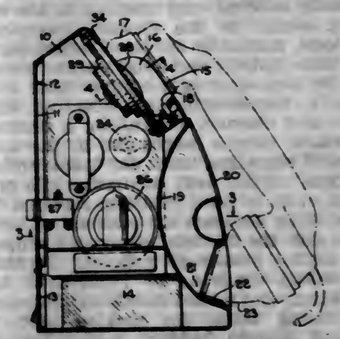
AMPLIFYING DEVICE FOR USE WITH TELEPHONE APPARATUS

John Charles Sydney Branson, Harborne, Birmingham, and Leslie Clifford Branson, Leicester, England

Application October 24, 1950, Serial No. 191,798

In Great Britain January 23, 1948

8 Claims. (Cl. 179—1)



1. An amplifying device for use with hand-set telephones comprising a cabinet having two side walls, a rear wall and a front wall which slopes rearwardly from the bottom of the cabinet to the top thereof, the upper part of the front wall having a recessed compartment of U-shape which forms a cradle to receive the telephone ear-piece, an inductive coupling mounted in the cabinet at the rear of said compartment so as to be in register with the telephone ear-piece when same is in position, a thermionic valve amplifier, connected electrically in circuit with said inductive coupling and housed within the cabinet, the lower part of the front wall of the cabinet

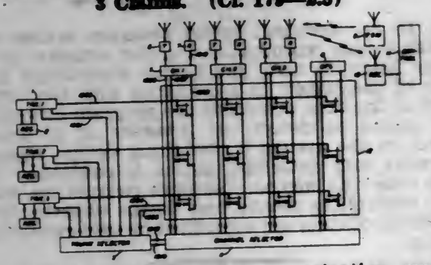
being provided with a recessed compartment which is shaped to receive the mouth-piece of the telephone, and a sound guide provided at the front wall of the cabinet between said upper and lower compartments, the lower part of said sound guide being in communication with the said lower compartment in the front wall of the cabinet, and the upper part of the sound guide being in communication with an opening in the front wall of the cabinet between said upper and lower compartments, the said sound guide being so shaped and arranged as to direct sound from the user of the device into the telephone mouthpiece.

2,657,266

AUTOMATIC MULTICHANNEL SELECTION

Daniel F. Hoth, Millburn, N. J., and Robert O. Soffel, Hastings-on-Hudson, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application November 4, 1950, Serial No. 194,162
3 Claims. (Cl. 179—2.5)



1. In a multichannel communication system including a base station and a plurality of outlying stations, automatic channel selecting means comprising means at said base station for impressing a control tone on an idle one of said channels, tuning means at each of said outlying stations for continuously tuning said stations to each of said channels in succession, means responsive to the reception of said control tone for stopping the operation of said tuning means and thereby holding said stations in the standby condition tuned to the channel carrying said control tone, manually operated switching means at said base station and relay means responsive thereto for removing said control tone and substituting a combination of selective signaling tones on said channel for calling a desired outlying station, means responsive to the substitution of said signaling tones for transferring said control tone to the next successive idle channel, means at each of said outlying stations for effecting a delay between the removal of said control tone and the thereto responsive reoperation of said tuning means of sufficient duration for said signaling tones to be recognized by said called station, and means selectively responsive to said signaling tones for locking said tuning means and thereby holding said called station tuned to the first-mentioned idle channel after the aforesaid removal of said control tone.

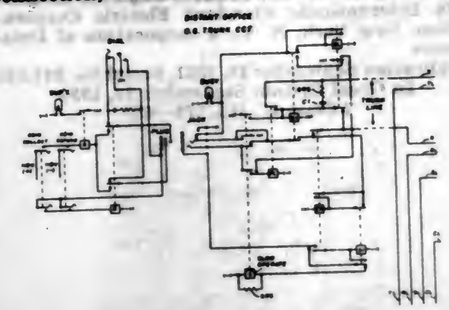
2,657,267

TELEPHONE SYSTEM COIN CONTROL ADAPTER AND CONNECTOR

William W. Pharis, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York

Application March 11, 1949, Serial No. 80,993
13 Claims. (Cl. 179—6.3)

9. In a telephone system, a local office and a distant office, a paystation line in said local office, a paystation on said line, an adapter circuit terminating said line and including coin control means for selectively impressing coin collect and coin refund potentials upon at least one of the conductors of said line, an operator's position in each of said exchanges, means including said adapter circuit for setting up a connection between said line and either one of said operator's positions, an automatic switch separate from said connection, means controllable from either of



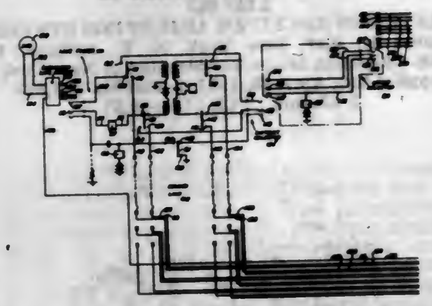
said operator's positions in response to the dialing of a specific number for advancing said automatic switch to a specific terminal associated with said paystation line, means controllable from either of said operator's positions over said automatic switch and said specific terminal for selectively controlling said coin control means for collecting or refunding coins at said paystation, and busy indicating means at each operator's position for indicating the use of said automatic switch by the other operator's position.

2,657,268

SYSTEM FOR AUTOMATICALLY TICKETING TELEPHONE CALLS

John B. Retallack, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application October 14, 1948, Serial No. 54,559
13 Claims. (Cl. 179—7.1)



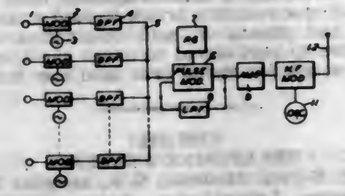
1. In an automatic ticketing system, a calling line, a plurality of trunks each having a ticket printer individual thereto, switching apparatus, a plurality of senders, means for associating an idle one of said senders with said calling line upon the initiation of a call on said line, means in said sender for registering the office code and numerical digits of a wanted line number, means controlled in accordance with the registered office code digits for controlling said switching apparatus for extending a connection from said line to an idle one of said trunks, a plurality of printer control circuits, means for connecting an idle one of said circuits with said sender and with said selected trunk, registering means in said control circuit, means responsive to the connection of said control circuit with said sender for transferring the registrations from the registering means of said sender to the registering means of said control circuit, and means responsive to the connection of said control circuit with said trunk for controlling the ticket printer of said trunk in accordance with the setting of the registering means of said circuit.

2,657,269

ELECTRIC PULSE MODULATION SYSTEM OF COMMUNICATION

Arthur Time Starr and Harry Grayson, London, England, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of New York

Application December 30, 1947, Serial No. 794,616
In Great Britain January 2, 1947
3 Claims. (Cl. 179—15)



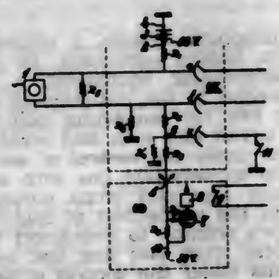
1. A multichannel pulse communicating system comprising a plurality of signal sources, means for modulating each of a plurality of adjacent frequency bands with a separate one of the signals from said signal sources, a pulse generator, a pulse number modulator coupled to the output of said generator, means for simultaneously applying all the signal modulated frequency band waves to said pulse number modulator to number modulate the pulses from said generator in accordance with said wave and means for transmitting the modulated pulses.

2,657,270

LINE CIRCUIT WITHOUT RELAYS

Robert Bertold Buchner, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application June 17, 1949, Serial No. 99,793
In the Netherlands July 2, 1948
6 Claims. (Cl. 179—18)



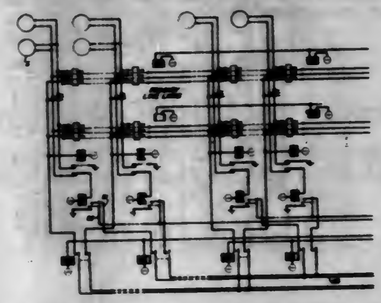
1. In an automatic telephone system, at least one call finder switch associated with a group of subscribers and provided with first and second multi-contact line sections and a multi-contact test section, first and second intelligence-signal lines connecting each subscriber to corresponding contacts in said first and second sections, a direct-voltage source, a first resistance connecting said first line to one end of said source, a second resistance connecting said second line to a corresponding contact in said test section, a third resistance connecting said test switch contact to a point common to a number of subscriber lines in said group, a call-responsive device coupled to said point for actuating said call finder when a call is received, means responsive when said subscriber is engaged by a call finder to connect said test switch contact to the other end of said source, and a fourth resistance connected between said second line and said other end of said source to ensure an effective voltage distribution between the first, second and third resistances and a resistance constituted by a line leakage path.

2,657,271

LINE IDENTIFICATION TROUBLE INDICATOR

Israel H. Henry, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

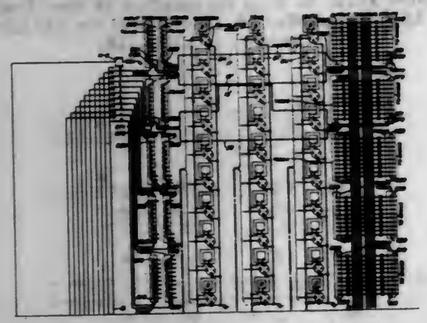
Application May 19, 1950, Serial No. 163,029
7 Claims. (Cl. 179—18)



1. In a telephone system including calling lines, district junctors, register senders and link switches, common control circuits for selectively operating said link switches to connect one of said calling lines with one of said district junctors and one of said register senders, line identifying means in said control circuits for identifying a calling line, equipment selecting means in said control circuits for selecting the district junctor, sender and link switches to be used in a connection, a control circuit connector, means responsive to the initiation of a call on one of said calling lines to operate said control circuit connector to connect said calling line with one of said control circuits, means responsive to the connection of said calling line with said one control circuit to operate the line identifying means and the equipment selecting means of said one control circuit, a trouble indicator common to said control circuits, including line identity registers and equipment identity registers, connecting means in said control circuits comprising a first connector for connecting said line identifying means with said line identity registers and a second connector for connecting said equipment selecting means with said equipment identity registers, timing means in said control circuits, means responsive to the connection of said calling line with said one control circuit to start the operation of the timing means of said one control circuit, means operated by the timing means of said one control circuit to operate the connecting means of said one control circuit to connect said one control circuit with said trouble indicator, means responsive to the operation of said first and second connectors to operate said line identity registers under the control of said line identifying means and said equipment iden-

tity registers under the control of said equipment selecting means, and manually controlled means for operating said first connector in any one of said control circuits to render said line identification registers individual to the line identifying registers of said one control circuit independent of said equipment identification registers, whereby said line identification registers are operated in response to each operation of the line identifying means of said one control circuit.

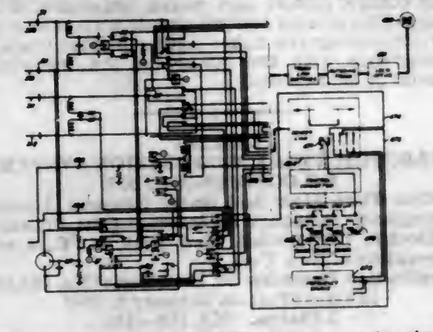
2,657,272
ELECTRONIC INDUCTION TRANSLATOR
Thomas L. Dimond, Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 3, 1951, Serial No. 213,708
6 Claims. (Cl. 179—18)



1. In combination, a plurality of magnetic rings, windings individual to said rings, a device responsive to the energization of each of said windings, a plurality of jumpers each threaded through a different combination of said rings to energize said windings when traversed by a changing electric current, a rectifier included in the circuit of each of said jumpers, means for selecting one of said jumpers comprising a plurality of contacts smaller in number than said plurality of jumpers and means whereby a source of changing current can be connected to a plurality of said jumpers, said jumper being activated to energize the windings of the rings through which it is threaded and consequently activating only predetermined ones of said responsive devices.

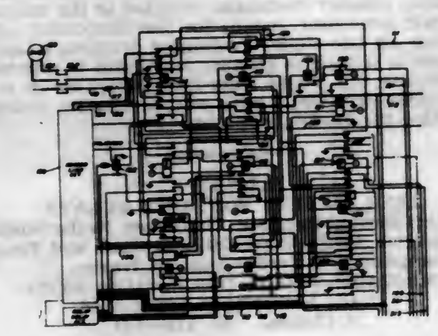
2,657,273
SENDER OVERLOAD CONTROL
Martin E. Maloney, Flushing, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 12, 1951, Serial No. 236,358
4 Claims. (Cl. 179—18)

1. In a telephone system, incoming trunks, switches, outgoing trunks, originating senders, means responsive to a call on one of said incoming trunks to connect one of said originating senders with said one incoming trunk means to register a designation in said originating sender, switch controlling means responsive to said registration to operate said switches to connect said one incoming trunk and said originating sender with one of said outgoing trunks, incoming senders, means responsive to the connection of said one incoming trunk with said one outgoing trunk to connect one of said incoming senders with said one outgoing trunk, means operated when all of said incoming senders are



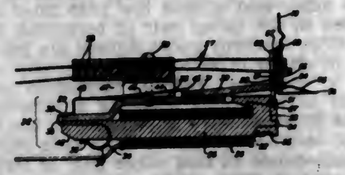
busy to transmit a multifrequency code signal over said one outgoing trunk to said originating sender and means in said originating sender responsive to said signal to cause the transmission of a reorder signal over said one incoming trunk.

2,657,274
TELEPHONE SYSTEM
Ralph E. Hersey, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 28, 1951, Serial No. 239,690
5 Claims. (Cl. 179—27)



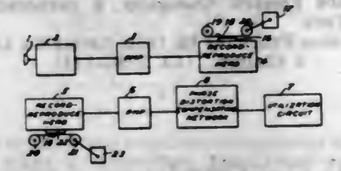
1. In a telephone system, a calling line, a trunk circuit, control equipment, an operator's position, terminating equipment, a recorder, means responsive to the initiation of a call on said calling line for connecting said line with said trunk circuit and with said control equipment, means under the control of said control equipment to connect said line with said operator's position over said trunk circuit, means responsive to the connection of said line with said operator's position to disconnect said control equipment from said line and said trunk circuit, means under the control of said operator's position to connect said trunk circuit with said terminating equipment, means under the control of said operator's position to reconnect said trunk with said control equipment and to record the identity of said terminating equipment in said control equipment, and means to cause said control equipment to transmit said recorded identity to said recorder.

2,657,275
CROSSBAR SWITCH
John H. Megler, Denville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 24, 1950, Serial No. 163,847
12 Claims. (Cl. 179—27.54)



1. In a cross-bar switch, an electromagnet comprising a core, a return pole-piece and an armature, a plurality of contact springs, a card for actuating said contact springs, an operating tape, a unitary spring engaging said core, said return pole-piece and said armature to retain both said core and said armature on said return pole-piece, and a spring clip engaging said armature, said card and said operating tape to retain both said card and said operating tape on said armature.

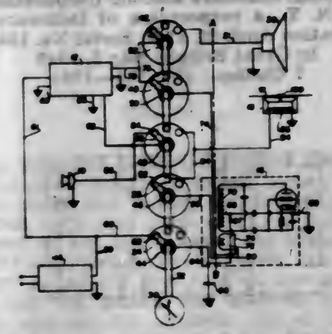
2,657,276
METHOD AND MEANS FOR OBTAINING A PREDETERMINED PHASE SHIFT CHARACTERISTIC
Warner A. Eliot, New Canaan, Conn., and Walter H. Erikson, Rochester, N. Y., assignors to Stromberg-Carlson Company, a corporation of New York
Application December 22, 1949, Serial No. 134,492
6 Claims. (Cl. 179—100.1)



1. Apparatus for developing a phase shift characteristic which is the reverse or negative of a known phase shift characteristic comprising a recording medium, means for moving said medium in a given direction, means for recording an electrical signal on said medium, means for moving said medium in a direction which is the reverse of said given direction, means for reproducing during the reverse movement the signal recorded on said medium, utilization means, and means for supplying the reproduced reversed signal to said utilization means, said supplying means including a network having the known phase characteristic.

2,657,277
DEMAGNETIZER FOR MAGNETIC RECORDER-REPRODUCER
William A. Brastad, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware
Application August 30, 1946, Serial No. 694,123
27 Claims. (Cl. 179—100.2)

1. A device for recording sound on magnetizable bodies comprising a core of magnetic material, means including an amplifier with a power source for applying to said core an audio frequency magnetic flux to be recorded, means including an oscillator also using said power source for applying to said core a high frequency biasing flux, and means including a condenser connected across the direct current power terminals of said oscillator and amplifier, for momentarily

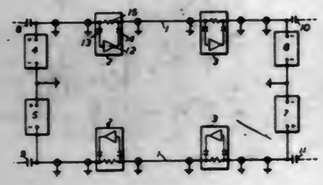


continuing said audio frequency and high frequency magnetic fluxes as they attenuate substantially to zero to demagnetize the core after said oscillator and amplifier have been cut off from said power source.

2,657,278
TELEPHONE SUPPORT AND SWITCH CONTROL MECHANISM
Chester W. Le Noir, San Francisco, Calif.
Application December 22, 1949, Serial No. 134,533
2 Claims. (Cl. 179—149)

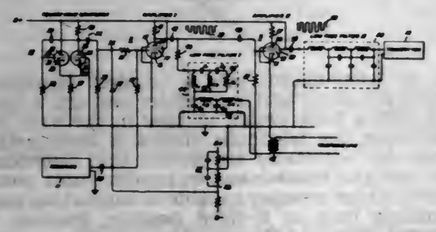
1. In combination with a handset telephone having a receiver and transmitter unit and a base unit with a hook switch plunger in the base for controlling the telephone circuit, a time-saving device for adjustably supporting said telephone base unit and receiver and transmitter unit, comprising a base member capable of supporting said telephone base in a fixed position thereon, a pedestal affixed to the said base member, an inverted L-shaped arm having the vertical portion pivotally supported in said pedestal and the upper portion horizontally extending therefrom and a second arm pivotally connected to the outer extremity of the said horizontal portion of the first arm, a telephone receiver and transmitter unit holder positioned on the outer extremity of the second arm, means, including an adjustable ball and socket joint, for connecting the telephone receiver and transmitter unit holder to the outer extremity of the second arm, and means associated with the first arm for automatically raising or depressing said hook switch plunger to close and open the telephone circuit when movement is imparted to said arms.

2,657,279
ELECTRICAL POWER SUPPLY SYSTEMS FOR COMMUNICATION SYSTEM REPEATERS
Richard Kelly, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application April 29, 1950, Serial No. 158,982
In Great Britain May 3, 1949
7 Claims. (Cl. 179—170)



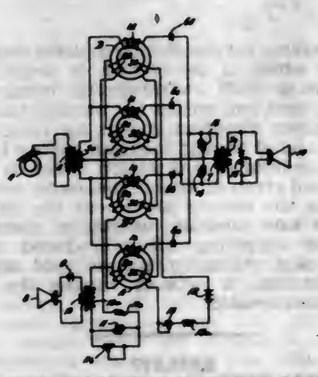
1. A telecommunication system comprising a transmission line, a plurality of repeater stations, regulated and unregulated power supply stations at each end of said line respectively for supplying said repeater stations with energising power, said unregulated station including means for applying test current to said line and stations, means preparing said repeater stations for receiving normal power in the absence of defects therein, means for connecting said regulated station to the line after said test has been successfully completed, said regulated station comprising means for supplying current to said line in gradually increasing quantity until a controlled current flow for the system as a whole is attained.

2,657,280
HYBRID CIRCUITS
Eugene B. Skolnikoff, Wembley, England, assignor to General Electric Company, a corporation of New York
Application December 30, 1950, Serial No. 203,601
1 Claim. (Cl. 179—170)



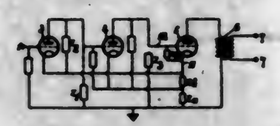
In a communicating system, first and second communicating channels, first and second amplifiers each having an input circuit and an output circuit, first and second low pass filters each having two pairs of terminals, the output circuit of said second amplifier connected to a pair of terminals of said first low pass filter, the other pair of terminals of said first filter and the input circuit of said first amplifier connected to the same end of said first channel, the output circuit of said first amplifier and the input circuit of said second amplifier each connected to a first pair of terminals of said second filter, the other pair of terminals of said second filter being connected to said second channel, said second filter including a high pass filter section and a low pass filter section having complementary reactive characteristics and having the input ends thereof serially connected between said first pair of terminals, the load end of said high pass filter terminated in a suitable load impedance and the other end of said low pass filter section connected to the other pair of terminals of said second filter whereby audio signals are permitted to pass in either direction from one pair of terminals to the other pair of terminals and the first pair of terminals presents a substantially pure and fixed resistive impedance to the output circuit of said first amplifier with wide variations in the impedance at said other pair of terminals of said second filter, means for rendering said first amplifier conductive at a rate above the highest audio frequency of the signals desired to be passed through said channels, means responsive to the output of said first amplifier for rendering said second amplifier nonconductive during the conduction of said first amplifier, and conductive during the nonconduction of said first amplifier whereby said audio signals from said first channel are permitted to pass through said first amplifier and said second filter to said second channel and audio signals from said second channel are permitted to pass through said second filter, said second amplifier, and said first filter to said first channel, while signals from the output of said first amplifier are not permitted to pass through said second amplifier.

2,657,281
ELECTROMAGNETIC AUDIO AMPLIFIER
Walter C. Kluz, Yonkers, N. Y., assignor to Ward Leonard Electric Company, a corporation of New York
Application February 15, 1950, Serial No. 144,339
3 Claims. (Cl. 179—171)



1. An electromagnetic amplifier for amplifying audio signals from an audio signal source comprising an input transformer and an output transformer with the midpoints of each of said transformers interconnected, a continuous alternating current source having a frequency higher than the highest audio frequency, a first pair of cores each having a main winding connected to one terminal of said input transformer and a second pair of cores each having a main winding connected to the other terminal of said input transformer, each core having a control winding, said control windings being connected in series to said signal source, the first pair of cores having the relation of the magnetomotive forces of the control winding and the main winding of one core reversed to the relation of the magnetomotive forces of the control winding and main winding of the other core of the first pair, the second pair of cores having the relation of the magnetomotive forces of the control winding and main winding of one core reversed to the relation of the magnetomotive forces of the control winding and main winding of the other core of said second pair of cores, each main winding having a rectifier connected in series therewith and passing current in the same direction, the main windings of the cores of either pair having one relation of the magnetomotive forces being connected through their respective rectifiers to one terminal of the output transformer and the main windings of the cores of either pair having the reverse relation of the magnetomotive forces being connected through their respective rectifiers to the opposite terminal of the output transformer to balance the output under no-signal conditions and creating an amplified difference corresponding to the audio signal under signal conditions.

2,657,282
NEGATIVE FEEDBACK AMPLIFIER CIRCUIT
Jan te Winkel, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application December 22, 1950, Serial No. 202,299
In the Netherlands January 11, 1950
4 Claims. (Cl. 179—171)



1. A multi-stage amplifier comprising an amplifying stage, a succeeding amplifying apparatus and means wherein an incoming signal is supplied to the input of said amplifying stage, said apparatus including first and second electron discharge tubes, each tube having a cathode, an anode and a control grid, the anode of said first tube and the control grid of said second tube being intercoupled, a first impedance coupled between the anode of said first tube and a point of ground potential, second and third impedances connected in series to form a series circuit, said series circuit being coupled between the cathode of said second tube and said ground point, means coupling the cathode of said first tube to the junction point of said second and third impedances whereby said third impedance is coupled to the cathodes of both tubes, the grid to cathode impedance of said second tube constituting a fourth impedance whereby said first and fourth impedances form one branch of a Wheatstone bridge and said series circuit forms the other and parallel branch of said bridge, said impedances having values relative to each other at which said bridge is substantially balanced, means to supply the signal appearing in the output of the amplifying stage to the grid of said first tube to produce a negative feedback current flow through said series circuit, and means coupled to said series circuit to supply said negative feedback current to said amplifying stage to reduce distortion therein.

2,657,283
CONTROL DEVICE
John L. Harris, Whitefish Bay, Wis.
Application February 23, 1949, Serial No. 77,860
8 Claims. (Cl. 200—38)



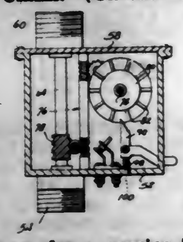
2. In a switch construction, the combination of, a rotatable shaft, a first cam loosely mounted on the shaft, lost motion drive means between the first cam and said shaft, a second cam mounted on the shaft, switching means including first and second cam followers, the first cam follower riding the first cam on one side of the shaft and the second cam follower riding the second cam on the opposite side of the shaft, both of the cam followers being biased toward the shaft and the first cam follower being biased sufficiently to overcome the bias of the second cam follower, the first cam having a relatively high portion and a relatively low portion connected by a sloping portion arranged so that the first cam follower can ride from the low portion to the high portion as the cam is rotated in one direction by the shaft, the lost motion drive means between the first cam and the shaft permitting snap movement of the cam when rotated in reverse direction by the shaft, said second cam having an abrupt drop off, and means whereby snap movement of the first cam follower toward the shaft causes movement of the second cam follower away from the shaft sufficiently to clear said abrupt drop off.

2,657,284
TROLLEY WIRE CONTACT DEVICE
John L. McGlothlen, Pittsburgh, Pa., assignor to The Martin Hardsocg Co., Pittsburgh, Pa., a corporation of Pennsylvania
Application May 31, 1952, Serial No. 290,294
16 Claims. (Cl. 200—51.07)



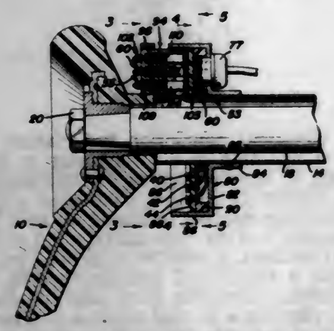
1. An electrical connector for making a detachable connection to a trolley wire or the like comprising a handle formed of insulating material, a stationary contact connected with said wire, a movable contact mounted on said handle for movement thereby into engagement with said stationary contact, a member at ground potential and having a cylindrical opening therein, and a rod projecting outwardly from said handle, said rod being receivable in said opening to place said handle at ground potential, said member forming a pivot support for said handle about which said handle may be rotated to move said movable contact into engagement with said stationary contact.

2,657,285
MILEAGE INDICATING ATTACHMENT FOR SELF-PROPELLED VEHICLES
Martha M. Clark and Royal E. Hansen, Eel Rock, Calif.
Application June 22, 1951, Serial No. 233,078
1 Claim. (Cl. 200—52)



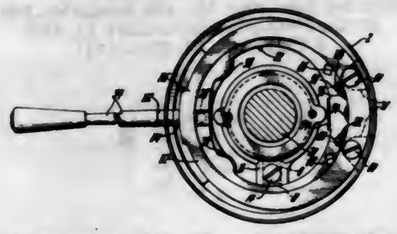
A circuit closer for a service indicator, a support, a rotary shaft mounted on the support, a drum fixed on the shaft and having a radially projecting arm, a lever pivoted on the support on an axis parallel to the axis of said shaft, said lever having a first arm extending toward said drum and a second arm extending laterally with respect to said first arm, spring means acting between said lever and the support, said spring means serving to yieldably maintain said lever in a first over-center position in which said first arm is in the path of movement of said drum arm or in a second over-center position in which said first lever arm is out of the path of movement of the drum arm, said second lever arm serving as manual means for moving said lever to either of said over-center positions, normally open circuit closing means on said support having an element arranged to be engaged and moved by said first lever arm as said lever is moved from said first position to said second position to operate the circuit closer to closed position, and means for rotating said shaft, said circuit closing means comprising a stationary contact and a spring retracted movable contact, normally out of engagement with the stationary contact, said spring retracted movable contact comprising said element.

2,657,286
PUSH-BUTTON TURN SIGNAL SWITCH
Clarence H. Hoklas, Chicago, Ill., assignor of twenty-five per cent to George L. Hoklas, Chicago, Ill.
Application January 4, 1951, Serial No. 204,433
1 Claim. (Cl. 200—61.27)



For use in an automotive vehicle, a turn signal attachment comprising left and right turn signal switches adapted to be mounted on the steering wheel of a vehicle, a pair of electrical leads leading from each switch, a three brush assembly adapted to be mounted on the steering wheel of the vehicle, one lead from each switch being connected to a common first brush, the other leads from said switches being connected to the second and third brushes, respectively, a three ring collector ring assembly adapted to be mounted on the steering column of the vehicle and having first, second and third rings contacting the respective brushes, first, second and third conductors extending from said rings, said first conductor being electrically energized, and passing through a blinker unit to a balanced relay bar, the second and third conductors being wound on electromagnets disposed at the opposite ends of said relay bar, and left and right lamp wires having contacts thereon disposed adjacent the ends of said relay bar, closing of either switch energizing its associated electromagnet to draw the relay bar into contact with the lamp wires of one side of the vehicle and causing the same to blink intermittently and closing of both switches causing the relay bar to alternately contact both the left and right lamp wires of the vehicle.

2,657,287
DIRECTION SIGNAL SWITCH
Clovis W. Lincoln and Philip B. Zeigler, Saginaw, and Ralph A. Malone, Chesaning, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 29, 1951, Serial No. 234,266
20 Claims. (Cl. 200—61.34)



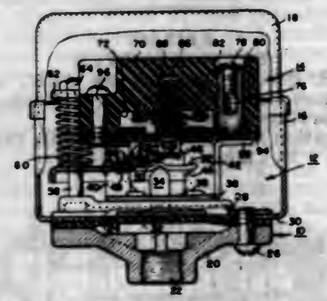
2. In a device of the class described, the combination of a switch movable from an open neutral position to circuit closing positions on either side of said neutral position, an operating member for said switch, a supporting guide member, and means for pivotally mounting said operating member on said supporting member, comprising, means on said operating member bent to form a yoke, said yoke straddling said supporting member and having aligned elongated slots therein, means mounted in said slots adapted to engage one side of said supporting member, and bearing means on said operating member adapted to engage the other side of said supporting member.

2,657,288
LEAF TYPE MICRO SWITCH
Harvey Hubbell, Long Hill, Conn.
Application May 4, 1950, Serial No. 159,976
5 Claims. (Cl. 200—67)



1. A microswitch element comprising a flexible spring strip having a pair of spaced flexible side arms, a contact plate including a cross member connecting the side arms at one end of said strip, an operating cross member connecting the other ends of said arms, a handle connected to said operating cross member, a divided tongue extending parallel to and located between said side arms and having separated opposed flexible sections, one section connected to said contact plate and extending therefrom toward the operating cross member and the other section forming an operating section connected to said other cross member and extending therefrom toward the first cross member, both tongue sections being movable through the strip from one side to the other, a spring compressed between the inner ends of said tongue sections, and supporting means for said side arms at points adjacent the free end of the operating tongue section, whereby pressing said handle in one direction flexes the adjacent part of said strip about said supporting means to thereby shift the operating tongue section from one side of the strip to the other and cause said spring to flex said other tongue section in the opposite direction and shift it through the strip to the opposite side from the operating tongue section to shift said contact plate in the direction opposite to the movement of said handle.

2,657,289
PRESSURE SWITCH
H. Hix Wolfe and Edward W. Haas, Dayton, Ohio, assignors to The Dayton Pump & Manufacturing Company, Dayton, Ohio, a corporation of Ohio
Original application April 27, 1948, Serial No. 23,536, now Patent No. 2,623,963, dated December 30, 1952. Divided and this application February 20, 1951, Serial No. 211,938
7 Claims. (Cl. 200—83)



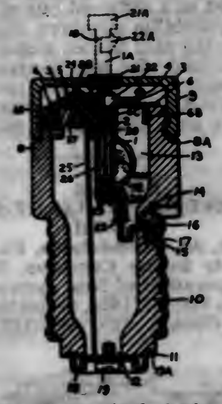
2. In a pressure switch; a toggle actuator comprising a bracket having spaced pairs of upstanding arms, the arms of each pair being spaced differently than the other pair, each said pair of arms having notches in their edges opening toward the other pair of arms, a first bifurcated plate having the ends of its legs in the notches of one pair of arms, a second bifurcated plate having the ends of its legs in the notches of the other pair of arms and extending around said first pair of arms, a tension spring connecting the closed ends of said plates, a compression spring acting on the closed end of said second plate for urging the toggle toward one of its operative positions, other arm means upstanding from said bracket, a terminal block mounted on said other arm means and switch means mounted in said terminal block and positioned to be operated by said first plate when said second plate is moved against the thrust of said compression spring, spring means yieldably urging said switch means towards its closed position and means for adjusting the pressure differential between said compression spring and said spring means whereby predetermined amounts of pressure are required to open and close said switch means.

2,657,290
FEEDER TAP
Edward P. Smith, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application September 7, 1950, Serial No. 183,603
13 Claims. (Cl. 200—115.5)



1. In a feeder tap comprising a recessed handle of insulating material and a cable terminal in the recess adjacent one end thereof with means to receive a cable conductor and means to prevent displacement of said cable terminal in one direction and a metal plug at the other end of the recess and a fuse connecting the plug and terminal, the combination with the plug of a guard formed of resilient insulating material and having a disc portion attached to the outer end of the plug for movement with the plug and a flange projecting from the disc portion and surrounding a portion of the handle at the said other end of the handle, the plug provided with means to receive other means connectable to a source of power.

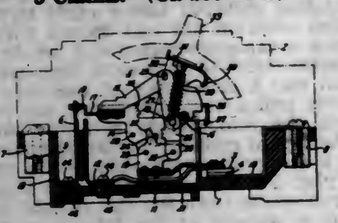
2,657,291
AUTOMATIC CONTROL DEVICE
Luis Bescecca, Florida, Buenos Aires, Argentina
Application October 18, 1950, Serial No. 190,723
3 Claims. (Cl. 200—116)



1. An automatic control device including, in combination, an escape member disposed in a housing and having a lug defining a slope and a recess defining an abutment, a spring urging said escape member in the direction of operation, a biased trigger member disposed transversely of said escape member and adapted to engage said slope and said recess to move and retain said escape member in operative position, wedging means adapted to frictionally engage and hold said trigger member in cocked position and including at least one movable element in parallel alignment with said trigger member and an ex-

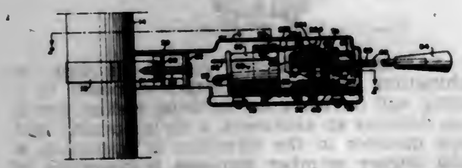
pansible member operatively connected thereto and connected to a first external contact, said expansible member being responsive to the flow of a current therethrough, thereby to ease the pressure of said wedging means on said trigger and release said escape member for operation by said spring, a sliding contact connected to said expansible element and supported by said escape member and movable therewith and a stationary contact connected to a second external contact and having engagement with said sliding contact in the operative position of said escape member.

2,657,292
THERMAL ELEMENT FOR SWITCH MECHANISMS
Robert G. Page, New Britain, Conn., assignor to General Electric Company, a corporation of New York
Application December 29, 1952, Serial No. 328,276
5 Claims. (Cl. 200—116)



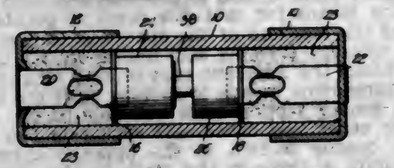
1. A thermally responsive member for controlling mechanisms employed for operating a pair of switch contacts, said member comprising a pair of bimetallic members each having juxtaposed fixed ends adapted for mounting on a support and juxtaposed movable ends deflectable in the same direction in response to heating, an electrically conductive heater element located between said bimetallic members and having juxtaposed terminals each of which is electrically and mechanically connected to a different one of the movable ends of said bimetallic members, means for electrically insulating said heater element from contact with itself and with said bimetallic members except at its said terminals, and means for connecting the fixed ends of said bimetallic members in circuit with said switch contacts.

2,657,293
AUTOMOTIVE SIGNAL LIGHT CONTROL SWITCH
Alfred Hopkin, Jr., Philadelphia, Pa., assignor to Arrow Safety Device Company, Mount Holly, N. J., a corporation of New Jersey
Application May 24, 1950, Serial No. 163,988
14 Claims. (Cl. 200—122)



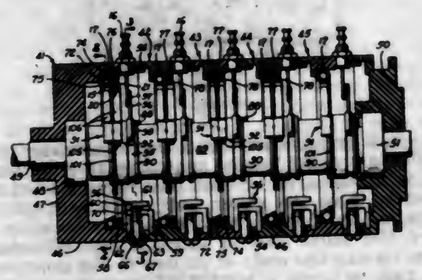
1. A time delay release control switch assembly comprising rotatable switching means having a plurality of contact positions, means for urging the switching means from one of its contact positions to another of its contact positions, means engaging and retaining said rotatable switching means in said one of its contact positions when it is rotated thereto, and thermally responsive means for releasing the engaging and retaining means to permit the urging means to rotate the switching means to said other of its contact positions.

2,657,294
LAG FUSE
Gordon F. Laing, Delavan, Wis., assignor to Economy Fuse and Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application April 16, 1952, Serial No. 282,663
10 Claims. (Cl. 200—123)



1. Lag fuse construction comprising dual fuse elements of the instantaneous and delayed action types, said elements being in series, said delayed action type element including a pair of relatively massive conductors of heat and electricity arranged in spaced relation, a movable conductive bridge carried by one of said massive conductors, an insulative bridge carried by the other of said massive conductors, said conductive and insulative bridge means being mutually displaceable across the space between said massive conductors, means pushing said insulative bridge against said conductive bridge to urge the latter out of bridging relation across said space, and fusible means connecting said conductive bridge to at least one of said massive conductors resisting said displacement.

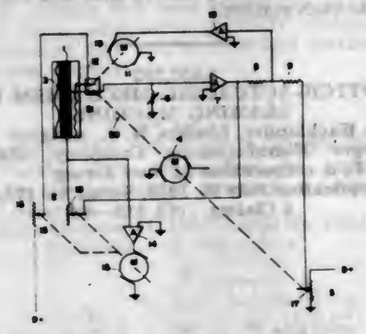
2,657,295
POTENTIOMETER
Robert E. Barclay, Los Angeles, Calif., assignor to Helipot Corporation, South Pasadena, Calif., a corporation of California
Application April 18, 1952, Serial No. 283,016
34 Claims. (Cl. 201—48)



1. In a rotary variable resistance device, the combination of: a curved resistor; a wiper in contact with said resistor; actuating means to cause relative rotation between said resistor and wiper about a given axis; a pair of shorting elements adapted for relative rotary motion about the same axis to move into and out of mutual contact, one of said shorting elements being fixed relative to said resistor and electrically connected to the resistor to short a portion thereof and the other of said elements being fixed relative to said wiper and electrically connected thereto, one of said shorting elements being elongated concentrically of said axis to correspond to said portion of the resistor whereby relative movement between said

two shorting elements occurs synchronously in accord with relative movement between the wiper and resistor, said two shorting elements being positioned relative to each other for mutual contact as said wiper traverses said portion of the resistor thereby to short said portion.

2,657,296
POTENTIOMETER COMPENSATING MACHINE
Henry R. Brown, Jr., Downey, Calif., assignor to North American Aviation, Inc.
Application November 24, 1951, Serial No. 258,083
11 Claims. (Cl. 201—62)



1. Means for automatically compensating for load resistance and departure from a predetermined function of resistance versus displacement a film potentiometer resistance element the width of which is determinative of the resistance per unit length, comprising cutting means for varying the effective width of said potentiometer, a master potentiometer having said predetermined function of resistance versus displacement, a load resistance simulating the load resistance to be used in connection with the operation of the potentiometer of which said element is to be a part, means for moving said cutting means along said element in synchronism with said master potentiometer, and servo means for varying said cutting means in response to the difference between the resistance of said element at the instantaneous location of said cutting means as qualified by said load resistance and said master potentiometer to thereby compensate said element.

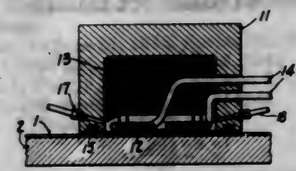
2,657,297
CIGAR LIGHTER
Arthur A. Johnson, Bridgeport, Conn., assignor to Automatic Devices Corporation, Bridgeport, Conn., a corporation of Connecticut
Application October 19, 1949, Serial No. 122,199
13 Claims. (Cl. 219—32)

13. An igniting unit for an electric cigar lighter having a holder, comprising a body having a heating element to be mounted on the holder for removal and replacement and manual means for moving the body longitudinally in the holder to replace the body in the holder in an open-circuit position; means yieldably resisting further movement of the body from the open-circuit position to a closed-circuit position; a stop mounted on the body for transverse movement with respect to the body between operative and inoperative positions and cooperating with the holder in operative position to positively prevent movement of the body from open-circuit to closed-circuit position when the body is being replaced in the holder; and separate means in addition to and carried by the said named body moving means for moving the stop to inoperative position to



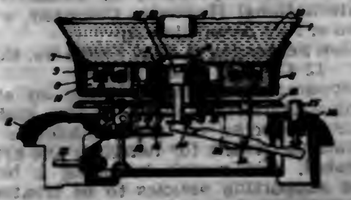
permit movement of the body to circuit-closing position.

2,657,298
METHOD AND APPARATUS FOR MANUFACTURING COMPOSITE PLATES
Orrin E. Andrus, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application October 29, 1951, Serial No. 253,691
15 Claims. (Cl. 219—10)



1. A method of bonding two members disposed in contiguous flatwise relation, which comprises induction heating opposed portions of said members to a bonding temperature and applying high fluid pressure to the outer surface of at least one of said portions, said pressure being present at least during part of the time that said portions are at bonding temperature and being sufficient to effect bonding thereof, and said portion being of substantial size both in length and in width and being bent by said fluid pressure into conformity with the opposed portions as distinguished from being deformed into conformity therewith.

2,657,299
COFFEE MAKER
Jacob W. McNairy, Westport, Conn., assignor to General Electric Company, a corporation of New York
Application December 13, 1947, Serial No. 791,629
2 Claims. (Cl. 219—43)



1. In a coffee maker and the like, a water heating bowl having a depression in the bottom thereof extending above the level of said bottom,

a support for removably receiving the bottom of said bowl, an electrically heated resistance for heating the bottom of said bowl, a circuit to the resistance, a switch on said support for controlling heating of said resistance through said circuit, said switch comprising a permanent magnet movably mounted in said support under said bowl for movement toward and away from said depression in the bowl bottom, a magnetic armature secured to said bowl in the depression, said armature below a given temperature being capable of holding said magnet in raised position toward said armature when said bowl is on said support, a pair of co-operating contacts in said resistance circuit closed when said magnet is in said raised position, means biasing said magnet toward a lower position away from said armature in which position said contacts are opened, and said armature having the characteristic that it substantially loses its magnetic properties near the boiling point of water in said bowl whereby the magnet is released and the position of the switch contacts is governed by the temperature of the armature.

2,657,300

TIME CONTROL MEANS FOR ELECTRICALLY HEATED COOKING RECEPTACLES

Earle C. Sullivan, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York

Application November 6, 1952, Serial No. 319,034
6 Claims. (Cl. 219—44)



1. In an electric heating device, a receptacle, an electric heating unit for the receptacle, an electric circuit for the heating unit, a switch for said circuit, and control means for said switch comprising a casing having a heat-conducting wall, said casing being mounted on the receptacle, means which forms a heat-conducting path between said casing and said heat-conducting wall, a fusible substance in said casing, means rendered operable by the melting of said fusible substance for actuating said switch, and means for varying the heat conductivity of said heat-conducting path.

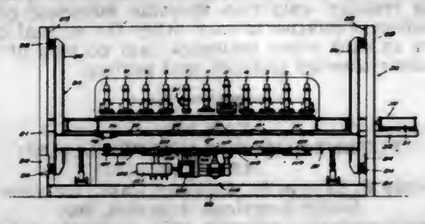
2,657,301

ELECTRONIC HEAT-TREATING DEVICE

Homer F. Kincaid, Carbon Cliff, Ill., John D. Graham, Louisville, Ky., Delos J. Reynolds, Chicago, Ill., and Edward M. Wharff, Baltimore, Md., assignors to Westinghouse Electric Corporation, a corporation of Pennsylvania, and International Harvester Company, a corporation of New Jersey, jointly

Application September 8, 1948, Serial No. 48,296
12 Claims. (Cl. 219—47)

5. An apparatus for heat treating an article comprising a plurality of heat treating stations, means for producing an electromagnetic field at said stations, means for handling the articles to be treated, said means including a bridge, means for supporting articles to be treated on said bridge, means for raising and lowering said bridge thereby moving the articles to be treated into and out of the electromagnetic fields, and conveyor means constructed and arranged for moving each article to be treated to successive



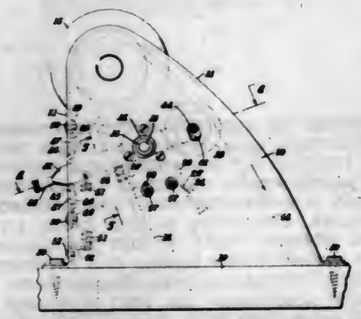
different positions on said bridge whereby each article is successively moved into and out of the field at each station.

2,657,302

SWITCH-ACTUATING MECHANISM FOR SEAMING MACHINES

Hans Hacklander, Linden, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application July 20, 1950, Serial No. 174,881
8 Claims. (Cl. 219—47)



7. In combination, a belt-driven seaming machine, a belt-tension-responsive switch mechanism comprising a pressure-sensitive switch, a centrally pivoted arm in operative relation with said switch, a free-running pulley secured to one end of said arm, said arm being biased to urge said pulley into limited engagement with the driving belt of said machine on the pulling side thereof whereby to distort the run of said belt out of its normally straight path so that increased tension in said belt occasioned by starting said machine tends to straighten said run of said belt and imparts to said arm through said pulley a turning moment sufficient to overcome the biasing force and turn the arm to actuate the switch.

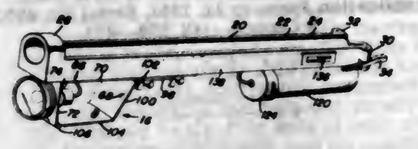
2,657,303

LIGHT PROJECTING ATTACHMENT FOR FIREARMS

Le Roy L. Dickens, De Ridder, La.

Application June 18, 1951, Serial No. 232,151
4 Claims. (Cl. 240—6.41)

1. A light projecting attachment for a firearm having a barrel and a filler tube comprising an elongated longitudinally recessed member adapted to abut the underside of the barrel of the firearm, one end of said member having a loop integrally formed therewith for embracing the barrel, the opposing end of said member having a pair of finger clamp elements pivotally carried thereby for clamping engagement with the juxtaposed end of the filler tube of the firearm, battery holding means carried by one end of said member, light projecting means carried by the other end of said member, and switch means for controlling the circuit for the light projecting means, said light projecting means including a



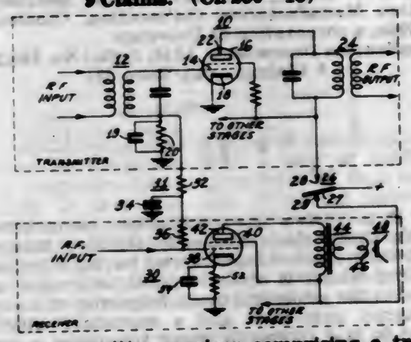
first hinge having first and second leaves, said first leaf being adjustably pivotally connected to said member and said second leaf having a lamp carried thereby.

2,657,304

DUPLEX RADIO APPARATUS CONTROL

Nathan Samuel Parks, Springfield, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application October 31, 1950, Serial No. 193,137
9 Claims. (Cl. 250—13)



9. A transmitter-receiver comprising a transmitter section including a radio frequency amplifier stage having a multi-electrode structure, a receiver section including an audio frequency amplifier stage having a multi-electrode structure, means in circuit with an electrode of said first stage for developing a bias voltage in response to the passage of current therein, a connection including an electric network between said means and a corresponding electrode of said audio stage to reduce the current flow in said audio stage for a given period of time, a source of operating potential for similar electrodes in said two multi-electrode structures, and a switch for alternatively connecting said source to the similar electrodes of said structures, said electric network having a time constant of value ranging from one-twentieth to one-fifth of a second.

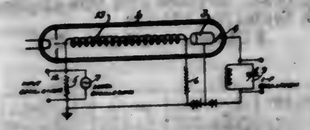
2,657,305

TRAVELING WAVE TUBE MIXING APPARATUS

Kornelis Swier Knol and Aldert van der Ziel, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application January 16, 1948, Serial No. 2,767
In the Netherlands January 28, 1947
9 Claims. (Cl. 250—20)

1. Apparatus for mixing first and second high-frequency oscillations of different frequency to produce intermediate-frequency oscillations comprising a traveling-wave electron beam tube including a helical conductor for guiding oscillations, an electron beam source adjacent one end of said conductor and a collector electrode adjacent the other end of said conductor, said source being arranged to direct an electron beam along the axis of said helical conductor toward said



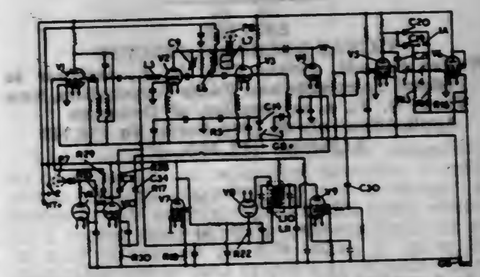
collector electrode with a velocity which at any point thereon exceeds that of the traveling wave of oscillations as measured along said axis, means to apply said first and second oscillations to said helical conductor to produce traveling waves thereon which advance in the same direction as said electron beam, and means to derive the intermediate-frequency oscillations from said collector electrode.

2,657,306

RADIO RECEIVING CIRCUIT ARRANGEMENT

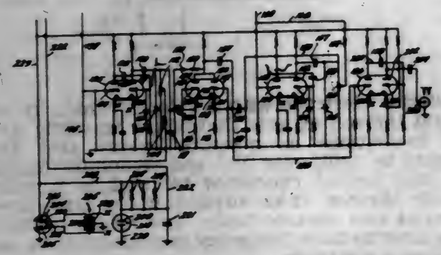
Frederic Calland Williams, Great Malvern, England, assignor to Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England

Application August 21, 1946, Serial No. 692,084
In Great Britain March 13, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires March 13, 1963
3 Claims. (Cl. 250—20)



1. A super-regenerative radio receiver circuit comprising a space discharge tube including a cathode, at least one control grid and an anode, positive feed-back means including a tuned circuit coupled between said anode and a control grid for providing regeneration, signal input and output circuits coupled to said tuned circuit, a source of quenching oscillations, means for applying said quenching oscillations between the control grid and cathode of said tube, a selective amplifier circuit tuned to the frequency of said quenching oscillations, connecting means between said signal output circuit and the input circuit of said amplifier, a rectifying device connected to the output circuit of said amplifier for converting the amplified quench frequency signal output of said amplifier into a direct-current voltage and further connection means for applying said direct-current voltage between a control grid and the cathode of said space discharge tube to control the sensitivity thereof.

2,657,307
POSITIVE FEEDBACK PULSE GENERATOR
John W. Balde, Morristown, N. J., and Joseph C. Bregar and Kenneth L. Chapman, Winston-Salem, N. C., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Original application October 6, 1948, Serial No. 53,076, now Patent No. 2,626,980, dated January 27, 1953. Divided and this application July 1, 1950, Serial No. 171,732
8 Claims. (Cl. 250—27)



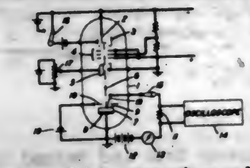
1. A marking signal generator comprising a source of voltage of cyclically varying frequency, a plurality of resonant devices energized by the variable frequency voltage, said resonant devices being tuned to different frequencies within the range of the varying frequency voltage, a plurality of positive feedback pulse generators, each of said positive feedback pulse generators being energized by one of said resonant devices to produce a marking pulse, and mixing means connected to each of the feedback pulse generators to form a composite marking signal including a plurality of marking pulses separated from each other by the difference in frequency between the resonant frequencies of the resonant devices.

2,657,308
SIGNAL RECEIVER CIRCUIT
Walter Brandt, Jersey City, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application July 29, 1950, Serial No. 176,749
2 Claims. (Cl. 250—27)



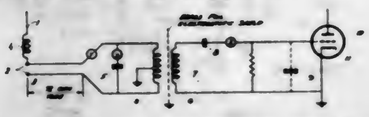
1. A control circuit for an electron tube having cathode, grid and electrodes, said circuit comprising first and second rectifiers disposed back-to-back, a resistance-capacitance network of short time-constant connected in circuit between ground and a point intermediate one terminal of said rectifiers, an input connection for said first rectifier whereby said first rectifier is operable to produce a negative potential in response to input signals, a third rectifier poled oppositely to said second rectifier and having one terminal thereof connected to said intermediate point, a second capacitance disposed between the grid of said tube and ground, and a variable resistance shunted across the second terminals of said second rectifier and said third rectifier, respectively, said variable resistance having its movable contact connected to the grid of said tube whereby the setting of said contact alters in either direction the relationship between the time-constants of said network and the circuit made by said variable resistance and said second capacitance.

2,657,309
STORAGE DEVICE UTILIZING SEMICONDUCTOR
Frank Gray, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 11, 1951, Serial No. 205,548
9 Claims. (Cl. 250—27)



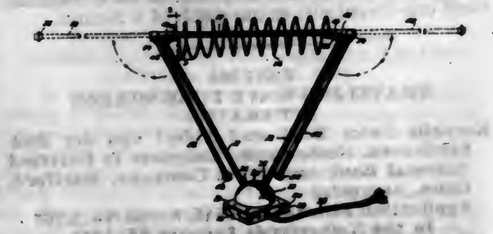
1. Apparatus which comprises a body of semiconductor material, a metallic electrode making contact therewith, a thin charge-sensitizing film containing a trace of distributed carbonaceous material on a surface of said body and adjacent said electrode contact, and means for applying a stream of charged particles to said film.

2,657,310
ANTENNA COUPLING NETWORK
Arthur J. Runft, Cincinnati, Ohio, assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware
Application December 5, 1950, Serial No. 199,241
5 Claims. (Cl. 250—33)



1. In a receiver the combination comprising a double-tuned electrostatically shielded magnetically over-coupled input circuit having a primary winding which is center-tapped to ground and tuned to the geometric mean frequency of a given frequency pass-band and a secondary winding tuned to said geometric mean frequency, a non-reflecting transmission line connected to said input circuit, one side of said transmission line and one half of said primary winding having reactance parameters which form a resonant configuration tuned to the geometric mean of said frequency band when connected to a rod type antenna having inherent reactance to ground.

2,657,311
ANTENNA
Leonard F. Klein, Oak Park, Ill., assignor to K-G Electronics Corporation, Chicago, Ill., a corporation of Illinois
Application June 18, 1953, Serial No. 294,167
5 Claims. (Cl. 250—33)



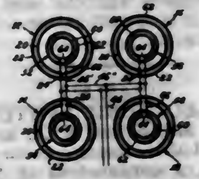
1. An antenna construction comprising an insulating base, an insulating hollow hemisphere on said base, means for mounting said hemisphere so that it may rotate around a vertical axis on said base in the normal position of the antenna, said hemisphere having a pair of opposed elongated slots therethrough, a pair of metal arms secured within said hemisphere and passing through said slots and diverging to form a generally V-shape, a wire helix supported between the free ends of said arms, said helix having a diameter which is substantially smaller than the length thereof and having its axis generally horizontal, said helix being electrically connected to said arms, an insulating rod disposed axially of said helix clamped to the free ends of said arms to render the construction rigid, and an auxiliary arm at each end of said helix pivotally secured adjacent the free end of the adjacent arm and electrically connected thereto and movable in a generally vertical plane, the bottoms of said V arms forming terminals for said antenna.

2,657,312
RADIO AND TELEVISION ANTENNA
Cesare Saranga, New Rochelle, N. Y.
Application September 28, 1951, Serial No. 248,697
9 Claims. (Cl. 250—33.53)



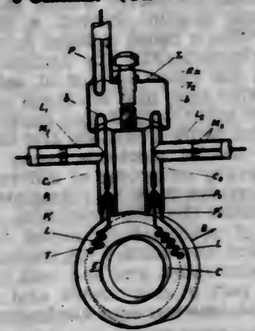
1. An antenna of the character described comprising an insulating base, a pair of coplanar rigid conductive arms, insulated from each other, secured to said base and projecting upwardly therefrom on opposite sides of said base, a rigid conductive loop secured to said base between said arms in a vertical plane at a substantial angle to the plane of said arms, and means capacitively coupling said loop to one of said arms.

2,657,313
DIRECTIONAL ANTENNA SYSTEM
William E. Antony, Shreveport, La.
Application March 13, 1950, Serial No. 149,353
2 Claims. (Cl. 250—33.57)



1. A unidirectional antenna system having substantially constant resistance and gain characteristics over a broad operating band of ultra-high frequencies including, an array of a plurality of groups of antenna sections, each of said sections comprising a conducting ring disposed in a vertical plane and having an open circuited feed point along the circumference thereof and an interrupted conducting ring spaced therefrom having a physical circumference slightly greater than that of the open-circuited ring to form a parasitic reflector, a group of said antenna sections being disposed in substantially vertical coplanar relation, the open-circuited first rings of said group being resonant at the mean frequency of a low frequency band, and a second group of said antenna sections having open-circuited rings resonant at the mean frequency of a higher frequency band, the rings of said second group of antenna sections being disposed coaxially within the rings of said first group of antenna sections, radio frequency transmission line means coupled in parallel circuit relation from a common point to the feed point of said open-circuited rings of said first mentioned group of antenna sections, each branch of the parallel transmission line means being of an electrical length to couple energy to each of the feed points in an inphase relation, and transmission line sections coupled between the feed points of the open-circuited rings of adjacent open-circuited rings in said first and second groups of an electrical length to effectively isolate the associated higher and lower frequency rings and provide negligible loading effect on either due to the other.

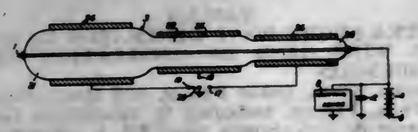
2,657,314
ULTRA SHORT WAVE GENERATOR HAVING A WIDE BAND OF OSCILLATION FREQUENCIES
Werner Kleen, Oskar Dähler, and Harry Huber, Paris, France, assignors to Compagnie Generale de Telegraphie Sans Fil, a corporation of France
Application November 17, 1948, Serial No. 60,446
In France November 18, 1947
9 Claims. (Cl. 250—36)



1. An ultra short wave generator, comprising in combination: an evacuated envelope; a cylindrical cathode arranged in said envelope; an anode in said envelope, said anode being shaped as a curved delay line arranged opposite an arc of said cylindrical cathode so as to leave the remaining arc of said cylindrical cathode unopposed by said delay line, said delay line having an input end and an output end allowing an electric wave to be fed to, and withdrawn from, said delay line, respectively, so as to travel along the same, said electric wave having a phase velocity depending on the shape of said anode; a feedback channel arranged outside said envelope and connected to said input end and said output end so as to establish a backcoupling between said output end and said input end; a reactive circuit in said feedback channel; means for tuning said reactive circuit to a predetermined frequency, said predetermined frequency being impressed by said feedback channel on the electric wave traveling along said delay line so as to determine the frequency thereof; means connected to said input and output ends for adjusting the phase of said electric wave fed back by said feedback channel so as to render the phases of said electric wave substantially equal at said input end and said output end; means for establishing an electric field between

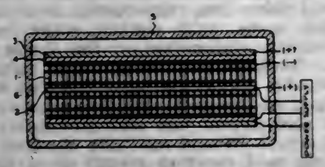
said anode and said cathode in directions substantially radial to said cylindrical cathode; and means for establishing a magnetic field in the space between said anode and said cathode in directions substantially parallel to said cylindrical cathode, the ratio of the intensities of said electric field and said magnetic field determining the angular velocity of the electrons emitted by said cathode and being chosen so as to render said angular velocity of the electrons substantially equal to the phase velocity of said electric wave.

2,657,315
HIGH-ENERGY RADIATION COUNTER
Ladislas Goldstein, Weehawken, N. J., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application April 8, 1950, Serial No. 154,825
2 Claims. (Cl. 250—83.6)



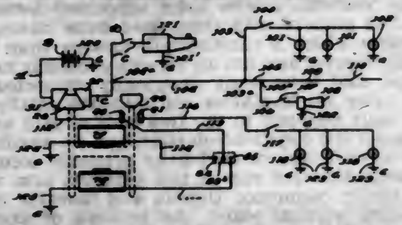
1. A Geiger-Muller type counter comprising a gas-tight tubular envelope of dielectric material containing an ionizable gas, a first electrode comprising a linear conductor within said envelope and extending outside thereof, a second electrode comprising a metal cylinder having a given absorption characteristic for particle rays, disposed about the outer surface of said envelope concentric with said first electrode and in contact with the outer wall of said envelope, one of said electrodes being a cathode and the other an anode, said second electrode being removably mounted whereby electrodes of different absorption characteristics may be substituted, and an operating circuit therefor consisting essentially of a source of potential connected directly between said first and second electrodes, said first and second electrodes and the wall of said envelope being part of said circuit, and a counting device coupled between said electrodes.

2,657,316
METHOD OF SUPPRESSING PHOTOELECTRIC THRESHOLD
Herbert Friedman, Arlington, Va.
Application November 7, 1950, Serial No. 194,543
5 Claims. (Cl. 250—83.6)
(Granted under Title 35, U. S. Code (1952), sec. 266)



3. A Geiger tube comprising the combination of an anode electrode, a cathode electrode surrounding said anode electrode and spaced a predetermined distance therefrom, said cathode electrode having a mesh-like structure, a control electrode surrounding said cathode at a distance substantially less than said predetermined distance, and insulating means located between said cathode and control electrodes for preventing passage of electrons therebetween.

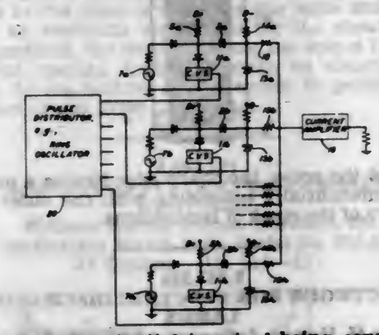
2,657,317
ANTITHEFT DEVICE FOR INTERNAL-COMBUSTION POWERED VEHICLES
Edgar E. Herrell, San Diego, Calif.
Application January 6, 1953, Serial No. 329,819
7 Claims. (Cl. 307—10)



1. An anti-theft device for internal combustion powered vehicles having a storage battery, electrical starter, and electrical ignition system which includes: a frame; a member movably mounted in said frame; spring means adapted to maintain said member in a first position and a second position; a first electrical contact disposed on said member; a second electrical contact; means to electrically connect said second contact to said storage battery; a third electrical contact; means to electrically connect said third contact to said starter and electrical ignition; a first magnetic means which when electrically actuated moves said member to said first position whereby said first contact is in communication with said second and third contacts; a second magnetic means which when electrically actuated moves said member to said second position whereby said first contact is not in communication with said second and third contacts; an electrical switch capable of being moved to a first position and a second position; and an electrical circuit having a first portion and a second portion, each of which may be selectively completed when said switch is in said first position or said second position, said switch when in said first position completing said first electical circuit to actuate said first magnetic means and move said member to said first position whereby said first contact is in communication with said second and third contacts, and when said switch is in said second position, actuating said second electrical circuit to actuate said second magnetic means to move said member to said second position whereby said first electrical contact is not in communication with said second and third contacts.

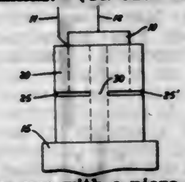
2,657,318
ELECTRONIC SWITCH
Alois J. Rack, Millington, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 22, 1952, Serial No. 277,939
6 Claims. (Cl. 307—88)

3. The combination of an electronic switch which comprises a T-network having an input series arm having an input terminal, an output series arm having an output terminal, a shunt control arm, a point common to said arms, and a fixed potential point, an asymmetrically conducting device connected in each of said arms, electrodes of said devices which are of a kind being connected to said common point, and a fourth asymmetrically conducting device interconnecting said output terminal with said fixed potential point, electrodes of the output series arm device and of the fourth device which are of the other kind being connected together, with a source of signals to be translated and a first resistor connected in series between said fixed potential point and said input terminal, a second resistor connected between said fixed potential point and said output terminal, a source of steady potential having a positive terminal, a negative terminal, and a terminal of intermediate potential, said



intermediate potential terminal being connected to said fixed potential point, a third resistor interconnecting the common point of said T-network with the positive terminal of said source, and a fourth resistor interconnecting said output terminal with the negative terminal of said source.

2,657,319
ULTRASONIC BEAM SHAPING DEVICE
John C. Smack, White Plains, N. Y., assignor to Sperry Products, Inc., Danbury, Conn., a corporation of New York
Application June 15, 1950, Serial No. 168,235
3 Claims. (Cl. 310—8.3)



1. A device for use with a piezo-electric crystal in the transmission and reception of ultrasonic vibrational waves in an object, comprising a wave-transmitting member having one surface in engagement with one surface of the crystal and having its other surface in engagement with the object, said member being slotted in a direction to intercept the vibrations to render a predetermined portion of the member substantially non-conductive to the ultrasonic vibrations.

2,657,320
PIEZOELECTRIC CRYSTAL UNIT
Arthur W. Ziegler, Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 30, 1948, Serial No. 68,222
13 Claims. (Cl. 310—9.7)



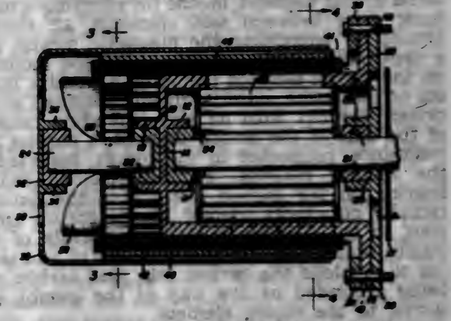
1. A crystal element comprising a crystal, a wire extending partway into said crystal and a plate secured to said wire and secured to said crystal.

2,657,321
POWER-DRIVEN TOOTHBRUSH
Charles B. Smithson, Jr., Clay Township, St. Joseph County, Ind.
Application November 9, 1950, Serial No. 194,875
13 Claims. (Cl. 310—50)



1. A tool comprising an electric motor having a casing adapted to be held in the hand, motion translating means actuated by said motor and confined in said housing and shiftable in a path having both lateral and longitudinal components, one end of said housing having an opening, a socket member connected to said translating means and positioned in said opening, longitudinally shiftable fulcrum means supporting said socket member in said opening, and a flexible waterproof skirt connecting the outer end of said socket and said housing, said socket being adapted to removably mount a tool shank and having a closed inner end.

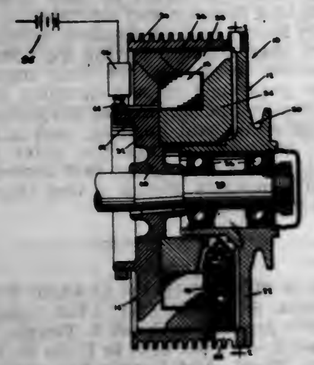
2,657,322
INDUCTION MOTOR WITH SEALED ROTOR
John C. Holst, Salt Lake City, Utah, assignor of twenty-five per cent to Frank K. Bennie, Trona, Calif., twenty-five per cent to Lynn W. Bennie, Memphis, Tenn., and twenty-five per cent to Lamont Holst, Salt Lake City, Utah
Application May 18, 1950, Serial No. 162,780
3 Claims. (Cl. 310—63)



1. An induction motor for driving a fluid containing device, comprising a stator, a main rotor and rotor shaft driving the said fluid containing device, an inner rotor casing surrounding the said main rotor completely having an imperforate cylindrical wall and an imperforate transverse wall integral therewith, an outer casing surrounding the stator and the inner casing, having a cylindrical wall coaxial and parallel with the cylindrical wall of the inner rotor casing and a perforate transverse wall, parallel to the transverse wall of the inner casing and spaced therefrom, the stator surrounding the inner rotor casing and extending into the space between the transverse walls of the inner and outer casing, said stator being surrounded by the outer casing, an auxiliary shaft, coaxial with the main rotor drive shaft, arranged in the space between the parallel transverse walls of the inner and outer casings, an auxiliary rotor on said shaft arranged in the space surrounded by the stator, a fan on said auxiliary shaft driven by said auxil-

iary rotor, said fan being turned towards and arranged near the perforated transverse wall of the outer casing, said fan aspirating air from without though the perforated transverse wall and driving said air longitudinally through the space between the two casings.

2,657,323
POWER TRANSMISSION CONTROL GOVERNOR
Ralph L. Jaeschke, Kenosha, Wis., assignor to Dynamatic Corporation, Kenosha, Wis., a corporation of Delaware
Application September 8, 1951, Serial No. 245,757
4 Claims. (Cl. 310—95)



1. Governing apparatus of the class described comprising a rotary partially magnetic material driving element, a rotary partially magnetic material driven element, means for effecting a magnetic drive between said elements, an electric circuit for energizing the magnetic means, and a centrifugal force operative governor mounted on the driven element including a tubular housing of insulating material fixedly mounted in the driven element with its axis extending radially of the axis of the driven element, a carbon pile resistance, connected in the circuit, mounted in the tubular housing, a predetermined weight bearing on the carbon pile within the housing radially outwardly thereof, and a spring under load, in the housing radially outwardly of the weight bearing axially upon the weight and serving to pre-load the carbon pile, said carbon pile being grounded by the way of the weight and spring to the driven element.

2,657,324
CAST ROTOR
Frank S. Korski, Brentwood, Mo., assignor to The Emerson Electric Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application March 28, 1952, Serial No. 279,170
4 Claims. (Cl. 310—211)

1. A rotor for a dynamo-electric machine comprising a plurality of circular laminations of uniform diameter in stacked concentric array, a plurality of conductors disposed adjacent the periphery of said stacked array and extending generally transversely thereto, and at least one end ring integral with said conductors and disposed in parallel abutting relation with the outer face of an end lamination of said stacked array, the radially outer part of the end ring having a frusto-conical tapered surface that extends both radially outwardly and axially inwardly toward the end lamination at an included angle of not less than 30°, and terminates at said end lamination in a sharp peripheral edge that extends



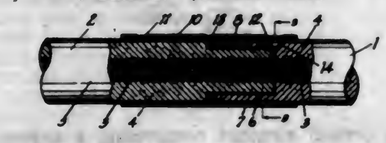
around the rotor, the sharp edge having a diameter substantially coinciding with the outer periphery of the stack of laminations.

2,657,325
ELECTRODE FOR ELECTRIC DISCHARGE LAMPS
Horace H. Homer, Arlington, and Erwin F. Lowry, Lynn, Mass., assignors to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application December 23, 1950, Serial No. 202,531
4 Claims. (Cl. 313—212)



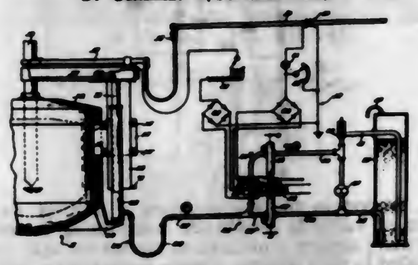
1. An electric gaseous discharge lamp comprising a sealed light-transmissive envelope, an inert gas at low pressure therein, a quantity of mercury therein, a tungsten electrode at each end of said envelope, an alkaline earth oxide carried by said electrode, and a monomolecular layer of oxide of said tungsten at the interface between the tungsten and the oxide.

2,657,326
SECTIONAL CARBON ELECTRODE
Leeman J. McCarty, Kalamazoo, Mich.
Application May 31, 1951, Serial No. 229,129
7 Claims. (Cl. 313—354)



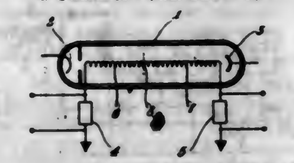
1. A carbon electrode comprising sections having metal sheaths, dense bodies adjacent the sheaths and soft cores within the bodies, one section having a socket in its body and the other a dowel on its body telescopingly engaged with the socket, the joint including a bonding adhesive having the property of gasifying at high temperature for the telescoping parts of the sections, and a coupling sleeve embracing the sections at the joint to reinforce the same and provide an electrical connection for the sheaths of the sections, the section having the socket having a vent opening formed through its sheath and body to the bottom of the socket to permit the escape of gas from the socket.

2,657,327
ADJUSTING SYSTEM FOR FURNACE CONTROLS
William Harvey Payne, Hinsdale, Ill.
Application May 8, 1951, Serial No. 225,239
17 Claims. (Cl. 314—61)



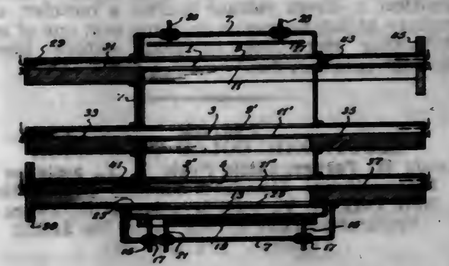
1. In adjusting means for the precise positioning of a movable structure comprising a fluid flow power translation system drivingly connected with said structure, a control valve comprising a casing having a cylindrical cavity and opposed ports connected in said system, a cylindrical valve member in said casing having a valve duct in position to interconnect said ports, said member being movable in an axial direction and separately turnable in an angular direction in said casing to control the size of the opening of said ports, means for adjusting the member in one of said directions to control fluid flow in said system for the positioning of the movable structure, and means to apply fluid under pressure to adjustably move said valve member in the other of said directions in accordance with pressure fluctuations in said system.

2,657,328
TRAVELING WAVE AMPLIFIER TUBE
Kornelis Swier Knol and Aldert van der Ziel, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application December 26, 1947, Serial No. 794,051
In the Netherlands January 13, 1947
4 Claims. (Cl. 315—3)



1. In a traveling-wave electron beam tube for the amplification of high-frequency oscillations, the combination comprising a helical conductor for guiding oscillations, input means to supply the oscillations to be amplified to one end of said conductor, output means to extract the amplified oscillations from the other end of said conductor, means to generate an electron beam, and means to direct said beam along the axis of said helical conductor with a velocity which at any point thereon exceeds that of the traveling wave of said oscillations along the helical conductor as measured along said axis, said conductor having a conductivity at the output end portion thereof which is lower than the conductivity at the input end portion thereof such that the damping of the traveling wave is high at the output end portion relative to the input end portion.

2,657,329
TRAVELING WAVE TUBE
Robert L. Wathen, Garden City, N. Y., assignor to The Sperry Corporation, Great Neck, N. Y., a corporation of Delaware
Application February 21, 1950, Serial No. 145,360
4 Claims. (Cl. 315—3)

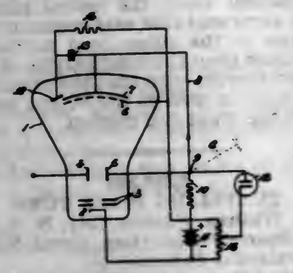


1. An electron discharge device including a wave guide having two opposed walls with electron permeable portions extending along the direction of energy propagation in said guide, a cathode extending generally parallel to said guide and adjacent one of said electron permeable wall portions, a second wave guide similar to said first guide and disposed on the other side thereof from said cathode, said second guide being substantially parallel to said first guide and separated therefrom by a drift space, low reflection means terminating both ends of said second guide, a third wave guide similar to said first wave guide and disposed on the other side of said second guide from said first guide and separated from said second guide by a second drift space; means for supplying high frequency energy to one end of said first wave guide, low reflection means terminating the corresponding end of said third guide, and means for absorbing high frequency energy from the opposite end of said third guide.

2,657,330
ELECTRIC CIRCUIT COMPRISING A CATHODE-RAY TUBE
Gerard Hepp, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application June 20, 1950, Serial No. 169,190
In the Netherlands July 29, 1949
5 Claims. (Cl. 315—31)

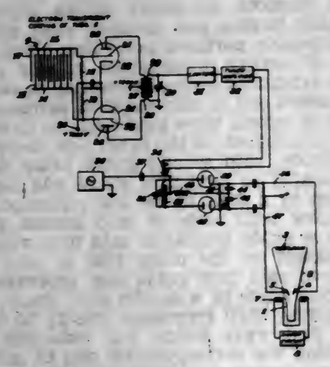
1. An electronic circuit comprising a cathode-ray tube provided with an electron beam source, a collecting electrode system, deflecting electrodes for deflecting said beam along said system and a reset collecting electrode disposed to be struck by said beam in an extreme position thereof, means coupling said system to one of said deflecting electrodes whereby said beam is adapted to occupy any one of a plurality of naturally stable positions along said system.

means for displacing said beam from one stable position to a subsequent position means coupling said reset electrode to one of said deflecting electrodes whereby a pulse derived from said



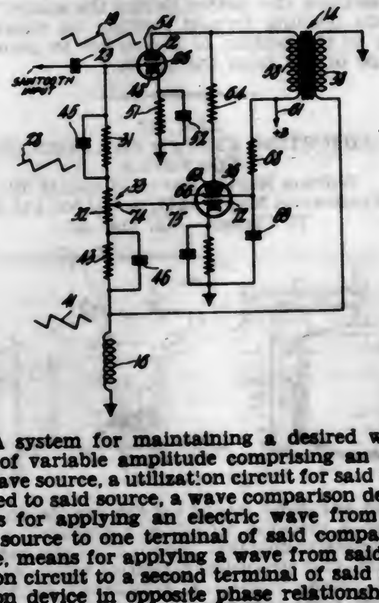
reset electrode displaces said beam to an initial position, a direct voltage source, a rectifier, and voltage adjusting means coupling said one of said deflecting electrodes to said voltage source through said rectifier.

2,657,231
ELECTRONIC COLOR TELEVISION
Louis W. Parker, Little Neck, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application June 5, 1948, Serial No. 31,326
8 Claims. (Cl. 315—26)



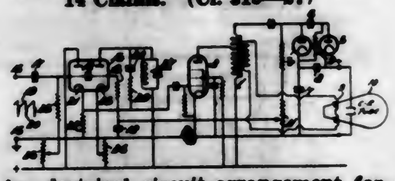
1. An arrangement for controlling the linear sweep of a cathode-ray beam, comprising means to develop a scanning cathode-ray beam, a viewing screen, means to move said beam to scan said screen across successive linear filter elements, said screen having a fluorescent coating and a conductive coating of material pervious to the cathode-ray beam, said conductive coating having at least two sections extending transversely of the linear scanning movement of said beam and having a space therebetween extending parallel to said linear elements, a source of potential connected to said two sections, means responsive to said potential and the scanning movement of said beam to produce a signal of a predetermined frequency when the beam is scanning said elemental strips at a predetermined speed but of a different frequency when the beam departs from said predetermined speed, and electrical circuits controlled by said signal to constrain said beam to scan said linear elements at said predetermined speed.

2,657,232
SIZE CONTROL FOR CATHODE-RAY TUBE DEFLECTION CIRCUITS
Robert K. Lockhart, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 29, 1949, Serial No. 73,648
8 Claims. (Cl. 315—27)



1. A system for maintaining a desired waveform of variable amplitude comprising an electric wave source, a utilization circuit for said wave coupled to said source, a wave comparison device, means for applying an electric wave from said wave source to one terminal of said comparison device, means for applying a wave from said utilization circuit to a second terminal of said comparison device in opposite phase relationship to the wave applied from said wave source and of substantially the same amplitude, said comparison device having means including a resistor connected between said two terminals for deriving a differential effect, and adjustable means for applying said differential effect to said utilization circuit to offset a departure in the waveform appearing in said utilization device from the waveform supplied by said electric wave source, said adjustable means serving to vary the amplitude of the waveform appearing in the utilization device.

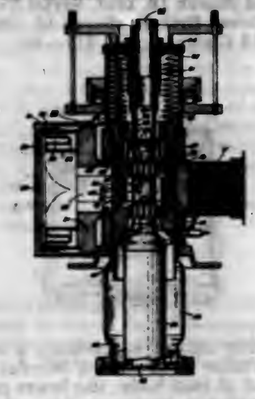
2,657,233
SAW-TOOTH CURRENT GENERATOR
Johan Haantjes, Josue Jean Philippe Valeton, and Bernardus Willem van Ingen Schenau, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application December 1, 1950, Serial No. 198,576
In the Netherlands December 31, 1949
14 Claims. (Cl. 315—27)



1. An electrical circuit-arrangement for producing in a deflection coil of a cathode ray tube a saw tooth current having a rising portion and a fly-back portion, comprising means including an oscillatory output circuit coupled to said deflection coil to produce flow of said saw tooth current through said deflection coil, means to rectify

the voltage developed across said oscillatory output circuit during the fly-back portion of said saw tooth current flow, a load circuit having a variable impedance value and comprising a cathode ray tube coupled to said rectifying means, said load circuit providing damping for said oscillatory output circuit inversely proportional to the impedance value of said load circuit, and means coupled to said load circuit to produce additional damping of said oscillatory output circuit during a portion of the flow of said fly-back portion of said saw tooth current through said deflection coil, said additional damping being proportional to the impedance value of said load circuit.

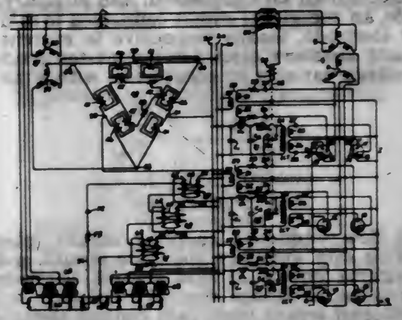
2,657,234
TUNABLE MAGNETRON
John W. West, Allentown, Pa., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 29, 1952, Serial No. 268,784
11 Claims. (Cl. 315—40)



1. A multicavity resonator comprising an anode having a central aperture therein and a plurality of cavity resonator bores disposed about said central aperture and communicating therewith, a pole piece adjacent said anode having an aperture therein axial with said central anode aperture, closure means across said pole piece aperture, a plurality of tuner pins each axially movable in one of said resonator bores, means for moving said pins to vary the extent of insertion in said bores thereby to tune said resonators over a preassigned range of frequencies, said moving means including a tuner pin support member having a portion adjacent said closure means and defining therewith boundaries of a variable cavity, and choke means preventing leakage of radio frequency power into said variable cavity, said choke means comprising a conducting member closely adjacent said tuner pin support member and producing a radio frequency short between said support member and said conducting member at all positions of said pins.

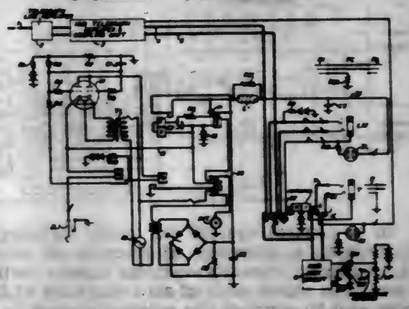
2,657,235
STABILIZED ARC SUPPRESSING SYSTEM FOR ELECTRONIC DEVICES USING STATIC COMPONENTS
Carl C. Herskind, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 25, 1952, Serial No. 300,888
4 Claims. (Cl. 315—195)

1. In combination, an electronic device of the ionizable medium type having an anode, a cathode, and an ignitor, circuit means for energizing said ignitor, a phase shift circuit having input terminals and output terminals and arranged to energize said circuit means, a saturable reactor having a main winding and a control winding, said main winding being energized from the out-



put terminals of said phase shift circuit, means for deenergizing said ignitor, and means responsive to a condition which is due to de-energization of said ignitor for causing a current to flow through said control winding which tends to cause saturation of said saturable reactor.

2,657,236
COMMUNICATION SIGNAL LAMP CONTROL CIRCUIT
Bernard Ostendorf, Jr., Stamford, Conn., and Richard A. Vanderlippe, Bloomfield, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 19, 1951, Serial No. 237,506
6 Claims. (Cl. 315—209)

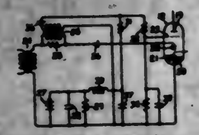


1. A space discharge device, a battery supply circuit connected to said device to light said device for a first interval as a signal, an interrupter in said battery supply circuit and a timing circuit control connected to said interrupter for interrupting said supply for a second interval during said first interval, said second interval shorter in duration than is manifest visually to minimize flicker.

2,657,237
ELECTRIC VALVE EXCITATION AND CONTROL CIRCUIT
Marvin J. Mulhern and Charles E. Rettig, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application July 24, 1952, Serial No. 300,784
3 Claims. (Cl. 315—262)

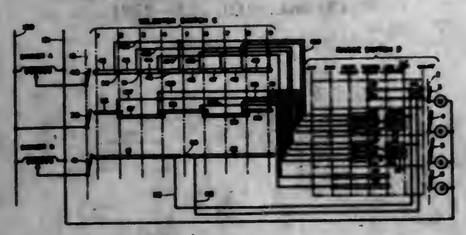
1. In combination, an electric discharge device of the type employing an enclosing envelope and

comprising therein an ionizable medium, an anode, a cathode and a control electrode, means for initiating electron emission at said cathode, an auxiliary electrode within said envelope, an energizing circuit connected to said auxiliary electrode for establishing a path for electron emission from said cathode to said auxiliary electrode, an energizing circuit connected to said control electrode, means responsive to current flow in said auxiliary electrode circuit for producing a voltage variable in accordance with such cur-



rent flow, inductive coupling means interconnecting said auxiliary electrode circuit and the energizing circuit of said control electrode for impressing a voltage derived from said second-mentioned means upon said control electrode in response to current flow in said auxiliary electrode circuit, and means including a capacitor connected across said inductive coupling means and forming therewith a tuned circuit, the voltage wave of which is timed and shaped so as to prolong the period of energization of said control electrode.

2,657,238
LIGHTING CONTROL SYSTEM
Rollo Gillespie Williams, Great Neck, N. Y., assignor, by mesne assignments, to Dure-Test Corporation, North Bergen, N. J., a corporation of New York
Application August 15, 1950, Serial No. 179,603
In Great Britain August 16, 1949
25 Claims. (Cl. 315—295)



1. In a control system for color lighting, in combination, a plurality of sources of colored light, two light intensity-varying means, switching means to select each of said plurality of light sources and to connect the selected source to one of said intensity-varying means, a second switching means to connect one of the remaining sources of light to the other of said intensity-varying means, operating means common to both of said switching means and said light intensity-varying means to vary simultaneously the connections of said switching means and said intensity-varying means.

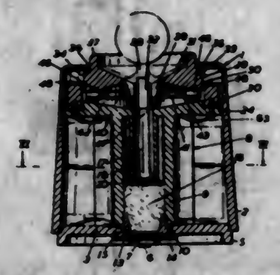
2,657,239
METHOD AND APPARATUS FOR PRODUCING ELECTRIFIED POWDERS BY FRICTION
Pierre Hasage, Versailles, France, assignor of one-half to Georges Truffaut, Paris, France
Application July 23, 1947, Serial No. 763,132
In France August 3, 1946
7 Claims. (Cl. 317—3)

1. A device for dusting plants and the like comprising means for providing a supply of powder, means for providing a flow of gas to carry the powder and means for electrifying solely by friction the particles of powder carried by the flow of gas, said friction electrifying means comprising a conduit connected to said means providing a flow of gas carrying said powder and netting



disposed in said conduit and extending longitudinally of said conduit, said netting comprising a plurality of thicknesses substantially filling the cross-section of the conduit for a substantial portion of its length, with interstices between the thicknesses.

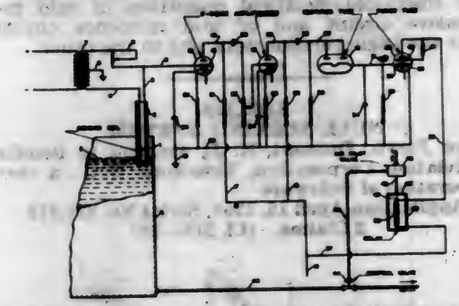
2,657,240
ELECTRIC LIGHTER
Harold L. Rink, Bridport, and Reginald Farran Spence, Meipiash, England
Application March 10, 1951, Serial No. 214,911
In Great Britain March 10, 1950
13 Claims. (Cl. 317—88)



1. An electric lighter comprising a housing including a tubular body and a tubular socket at the upper end of said body, the lower part of said body constituting a reservoir for volatile liquid fuel and the upper part thereof constituting a tube leading to said reservoir; a torch adapted to be inserted coaxially through said tubular socket and into said tube; an absorbent wick carried by said torch and adapted to be charged with fuel from the said reservoir when the torch is in the tube; ignition contacts in the said tubular socket and adapted to be connected to a source of electric current and adapted, on withdrawal of the torch from the tube, to be actuated by the torch first to make and then to break the electric circuit thereby to produce a spark and thereby ignite the said wick, the said tubular socket having its upper surface in the form of a wide mouthed funnel having the bore of which leads directly, without interruption, into said tube so that liquid fuel may be poured from said funnel through said tube into said reservoir whereby the reservoir may be readily replenished with fuel without dismantling the lighter.

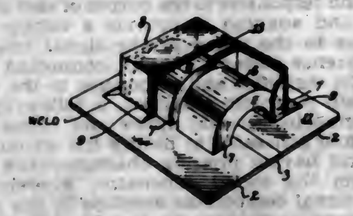
2,657,241
LIQUID LEVEL CONTROL APPARATUS
Benjamin L. Covert and Harold E. Dahlquist, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application July 29, 1950, Serial No. 176,568
3 Claims. (Cl. 317—132)

1. An electronic liquid level control apparatus comprising a sensing coil, wiring connecting one end of said sensing coil with a balancing resistor, and wiring connecting the other end of said sensing coil and of said resistor with each end of a secondary coil of a transformer, said secondary coil having a grounded center tap whereby changes in resistance from said sensing coil change the voltage output from said transformer secondary coil, wiring connecting one end of said sensing coil and the accompanying end of said balancing resistor to the control grid of a first stage amplifying tube in an electronic amplifying



and rectifying circuit, means connecting a rectified voltage from said circuit to the control grid of a power tube, a direct current power supply to the anodes of each of the tubes of said circuits, and an electro-magnetically controlled deflecting member connected in the direct current power supply line to the anode of the power tube, and with said deflecting member moving substantially linearly responsive to the current in the anode circuit of said power tube.

2,657,242
MAGNETIC PLATE STRUCTURE
Donald E. Stem, San Francisco, Calif.
Application April 17, 1950, Serial No. 156,328
1 Claim. (Cl. 317—159)



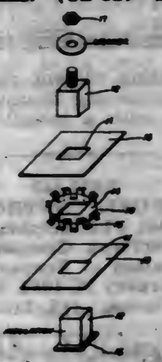
A magnetic plate unit including a pair of spaced magnetic strips, a non-magnetic strip integrally joined with said magnetic strips and filling the space therebetween at a continuous level and in the plane of said magnetic strips, said strip assembly forming a single uninterrupted plate having a smooth operating surface, permanent magnet means straddling said non-magnetic strip on the plate side opposite said operating surface, opposite poles of said permanent magnet means engaging the respective adjacent magnetic strips, a housing completely covering said permanent magnet means and being integrally united with the adjacent face of said plate, said permanent magnet means including a plurality of spaced permanent magnets within said housing, the same polarity poles of each of said magnets contacting the same magnetic strips, and insulating spacer means positioned between said permanent magnet means and said housing and in contact therewith to hold said permanent magnets against movement within said housing, said housing being of slightly magnetic-conductive material so as to provide a magnetic shunt of low value across said non-magnetic strip.

2,657,243
COOLING OF RECTIFIER STACK BY THERMAL CONDUCTION
Earl D. Wilson, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 8, 1950, Serial No. 160,599
3 Claims. (Cl. 317—234)



1. A mounting for rectifiers of the disc type comprising an insulating tube in the interior of which rectifier discs are stacked, a conducting terminal on the end of said insulating tube connected to one of said discs by conducting means in the interior of said tube, and a sheathing of good heat-conducting material surrounding said insulating tube in the region occupied by said discs, said sheathing including means for conducting heat away from the sheathing.

2,657,244
RECTIFIER STACK
Paul T. O'Neil, Englewood, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application September 14, 1951, Serial No. 246,553
3 Claims. (Cl. 317—234)



1. A rectifier stack comprising a plurality of rectifier disks having non-circular openings, a unitary means for properly spacing and connecting adjacent disks, a non-circular insulating shank registering with the openings in said disks and supporting the disks in assembled electrical relationship, the disks being prevented from rotation principally by the action of the non-circular openings in said disks nesting with the non-circular shank.

2,657,245
TRANSCONDUCTOR EMPLOYING LINE TYPE FIELD CONTROLLED SEMICONDUCTOR
Otmar M. Stuetzer, Springfield, Ohio
Original application October 6, 1949, Serial No. 119,985, now Patent No. 2,618,690, dated November 18, 1952. Divided and this application May 20, 1952, Serial No. 288,996
4 Claims. (Cl. 317—235)
(Granted under Title 35, U. S. Code (1952), sec. 266)

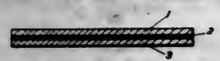
1. A transconductive device comprising a semiconductor, an output electrode consisting of a

thin layer of metal in contact with the surface of said semiconductor, a plurality of closely spaced perforations in said layer of metal, a thin layer of dielectric material of uniform thickness extending over and in contact with said



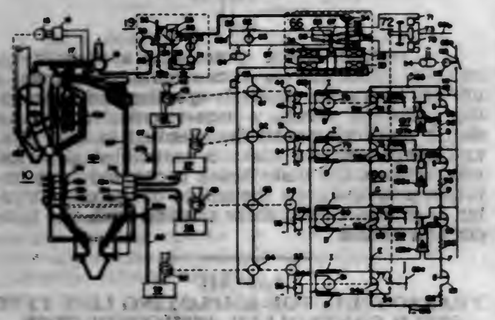
layer of metal and those areas of the semiconductor exposed by said perforations, and an input electrode composed of a layer of metal placed over and in contact with said layer of dielectric material.

2,657,246
DRY CONTACT RECTIFIER
Ronald Alfred Hill, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application October 17, 1952, Serial No. 315,299
In Great Britain October 26, 1951
12 Claims. (Cl. 317—237)



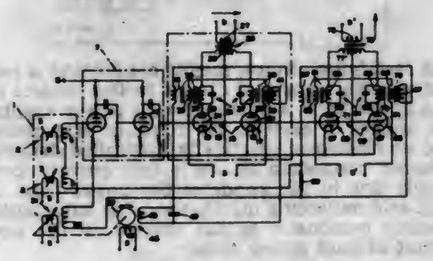
1. An alternating current rectifier of the dry contact type comprising titanium nitride in intimate contact with a metallic oxide counter-electrode.

2,657,247
MULTIPLE UNIT CONTROL SYSTEM
Edward S. Bristol, Philadelphia, Pa., assignor to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 14, 1952, Serial No. 271,487
20 Claims. (Cl. 318—19)



1. A control system comprising adjustable final control units, control elements connected together in a responsive circuit and respectively corresponding with said control units, means operable in accordance with adjustments of said units for adjusting said control elements to establish in said responsive circuit electrical quantities whose magnitudes are fractions of a total electrical quantity and respectively of fractional size dependent upon the extent of relative adjustments of said units, a reference circuit having elements for establishing electrical quantities whose magnitudes are desired fractions of a total electrical quantity as determined by the relative values of said reference circuit elements one to the other, and means including electrical quantity difference detectors respectively connected between different portions of said circuits for changing the adjustments of said units until the fractional electrical quantities of said responsive circuit and of said reference circuit bear the same relationships one to the other.

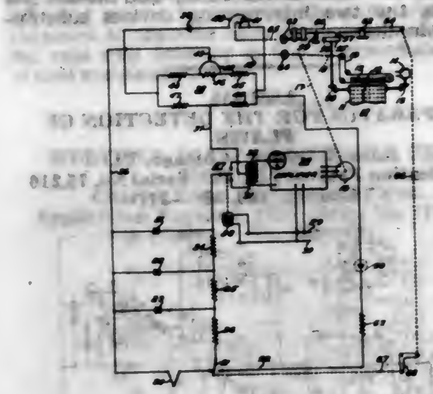
2,657,248
NULL SEEKING SYSTEM
John Jarvis, Dumont, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application April 16, 1951, Serial No. 221,212
2 Claims. (Cl. 318—28)



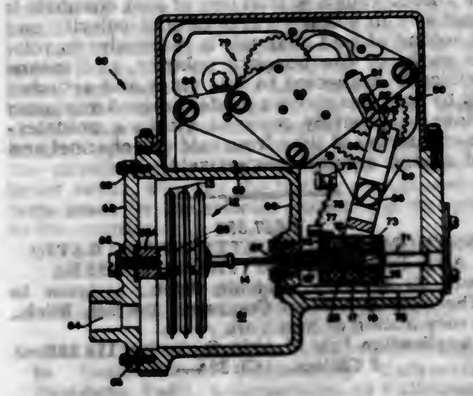
1. A servo system of the class described comprising an alternating current signal generator responsive to a condition, a discriminator energized by a reference voltage and connected to said signal generator for determining the phase of the signal relative to the reference voltage, a magnetic amplifier connected to said discriminator and responsive to the output of said discriminator and adapted to provide a voltage corresponding to the phase of the signal relative to the reference voltage, a motor connected to said magnetic amplifier and responsive to the voltage from said magnetic amplifier, a follow-up drivably connected to said motor and connected to said signal generator to nullify the signal therefrom and having phasing characteristics differing from the signal genenator, whereby a 90 degree signal component develops in the system, and means responsive to the 90 degree signal component and providing a voltage equal thereto and 180 degrees out of phase therewith to nullify the 90 degree signal component and avoid heating of said magnetic amplifier.

2,657,249
HIGH-SPEED STANDARDIZATION OF POTENTIOMETERS
Albert J. Williams, Jr., Philadelphia, Pa., assignor to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 31, 1947, Serial No. 725,466
18 Claims. (Cl. 318—28)

1. In a measuring system of the continuously operable high-speed type in which a reference potential is produced in a potentiometer-measuring network by controlled flow of current from a battery and in which a fraction of said reference potential is selected to equal that of an unknown potential and in which an anticipatory network is normally interposed between said unknown potential and said fraction of said reference potential, the method which comprises standardizing at high speed said reference potential by applying to the measuring network a standardizing voltage, interposing between said standardizing voltage and the measuring network said anticipatory network to prevent over and under-adjustments of the flow of current from said battery, and subjecting said anticipatory network to a source of potential so that it is maintained at a substantially constant potential during transfer from measuring to standardizing.

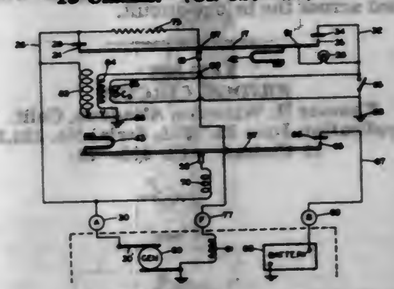


2,657,250
ALTITUDE CONTROLLER UNIT
Francis Henry S. Rennire, Leonia, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application April 11, 1951, Serial No. 220,697
11 Claims. (Cl. 318—31)



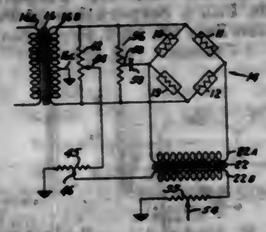
1. In a controller, a hollow member, inductive means and core means slidable relative to one another, one of said means being positioned inside said member and the other means being positioned outside of said member, a barometric device on one side of said member connected for actuating one of said means relative to the other of said means to provide a signal corresponding to their relative displacement, and a motor on the other side of said member responsive to the signal and drivingly connected to the other of said means to cause the latter said means to follow the movement of said one means and nullify the signal.

2,657,251
ELECTRIC REGULATOR DEVICE AND SYSTEM FOR CHARGING STORAGE BATTERIES
Petter Kahar, Cleveland, Ohio
Application April 28, 1948, Serial No. 23,793
13 Claims. (Cl. 320—28)



1. In an electrical system, the combination with a generator having a field winding and a storage battery; of regulator means comprising generator field circuit means connected from the generator armature to said field winding, said generator field circuit means including a field switch and a first armature carrying one of the contact points of said field switch, said field switch being closed when said generator is generating current, electromagnetic coil means connected to ground in parallel with a circuit including said field winding and said field switch, battery circuit means connecting said generator to said battery including a battery switch and a second electrically conductive armature carrying one of the contact points of said battery switch, said battery switch being open when said generator is not generating current, battery coil means connected in series between said generator and said battery, said electromagnetic coil means establishing an electromagnetic force for closing said battery switch and for tending to open said field switch when said generator generates sufficient current to charge said battery, and thermostatic control means tending to open said field switch when heated and to close said field switch when cooled.

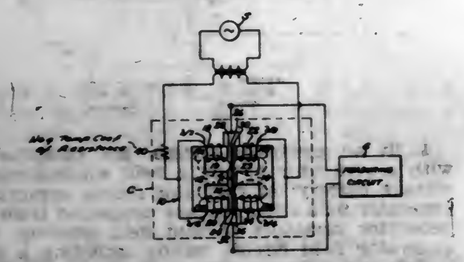
2,657,252
BRIDGE CIRCUIT
Robert L. Sink, Altadena, Calif., assignor to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California
Application July 11, 1949, Serial No. 104,039
6 Claims. (Cl. 323—75)



4. In a bridge circuit comprising four impedance elements arranged in connecting arms, an input transformer having its secondary winding connected across one pair of opposite bridge terminals for applying an alternating current signal across the bridge, a first resistance connected across the secondary winding of the transformer and having an adjustable tap, a second resistance connected between the adjustable tap on the first

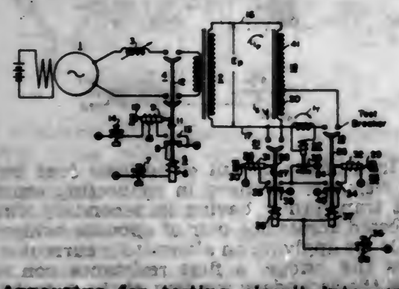
resistance and a tap on the secondary winding of the input transformer, means connecting a portion of the second resistance in series with the output circuit of the bridge, and means for causing unbalance signals in the output circuit of the bridge to be substantially in phase with respect to the alternating current signal which is applied across the bridge circuit.

2,657,353
BRIDGE CIRCUIT
Thomas H. Wiancko, Altadena, Calif.
Application June 25, 1951, Serial No. 233,270
11 Claims. (Cl. 323—75)



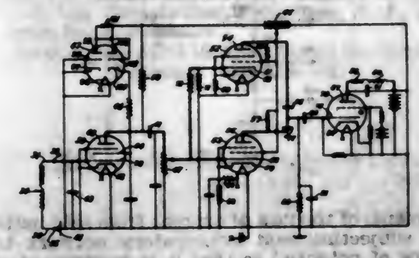
1. In combination: an alternating current bridge circuit having an input and an output arranged in opposite diagonals thereof and comprising a variable inductive winding in at least one arm thereof, said winding having an electrical resistance that varies with temperature, the inductance of said winding varying in accordance with a force to be measured; a compensating resistor connected to said input, said resistor having a resistance that also varies with temperature; and means for maintaining the temperature of said compensating resistor the same as the temperature of said winding, the temperature coefficients of resistance of said winding and said resistor being of opposite signs, the resistance of said resistor being so proportioned with respect to the resistance of said winding and said temperature coefficients that the changes in resistances of said winding and the changes in resistances of said resistor are such that the degree of modulation of said output is independent of temperature.

2,657,354
TESTING ARRANGEMENT FOR CIRCUIT INTERRUPTING DEVICES
Roswell C. Van Sickle, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 22, 1950, Serial No. 175,392
2 Claims. (Cl. 324—28)



1. Apparatus for testing circuit interrupting devices comprising in combination, an auto-transformer, an interrupting device under test connected across the secondary winding of the auto-transformer, means for impressing an alternating voltage across the auto-transformer, an auxiliary interrupting device connected electrically in both the primary and secondary circuits of the auto-transformer, and means for opening the two interrupting devices substantially simultaneously.

2,657,355
APPARATUS FOR THE DETECTION OF FLAWS
John C. Dieane, Chicago, Ill.
Application February 8, 1949, Serial No. 75,210
7 Claims. (Cl. 324—37)



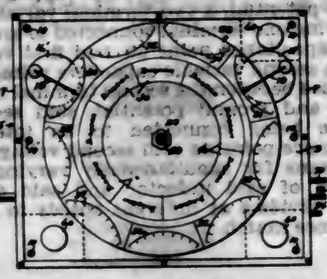
5. In a device for the detection of the magnetic fields characteristic of magnetized fissures in a rail, a pickup adapted to be moved longitudinally of the body at a given speed, said pickup comprising a core and coils wound about said core, said coils being connected in series opposition to produce a duopolarity voltage wave, the initial portion of which is of a fixed polarity, upon traversing said field, and a cascade amplifier including one stage having two channels, an electronic tube in each of said channels, means biasing one of said tubes to cut off current flow therethrough and the other of said tubes to saturation current flow therethrough so that one of said channels is responsive to voltage waves of said polarity and the second of said channels is responsive to voltage waves of the opposite polarity, and means electrically connected to said stage and actuated only by impulses above a predetermined minimum voltage successively received within a predetermined interval of time from said one channel and said second channel respectively.

2,657,356
INSTRUMENT FOR DETERMINING RATIO AND POLARITY OF TRANSFORMERS
James E. Mulavey, Detroit, Mich., assignor to The Detroit Edison Company, Detroit, Mich., a corporation of New York
Application July 17, 1950, Serial No. 174,293
9 Claims. (Cl. 324—55)



1. A ratio and polarity bridge for directly determining ratio and polarity without reference to phase angle of a transformer having a high voltage winding and a low voltage winding, comprising a resistance device, means adapted to electrically connect opposite ends of said resistance device directly to opposite ends of said high voltage winding, a null detector, means electrically connecting one side of said null detector directly to an intermediate point on said resistance device, means adapted to connect the other side of said null detector directly to one end of said low voltage winding, means adapted to electrically connect the other end of said low voltage winding directly to one end of said high voltage winding, and means for varying the ratio of the resistances at opposite sides of the means connecting said null detector to the intermediate point of said resistance device.

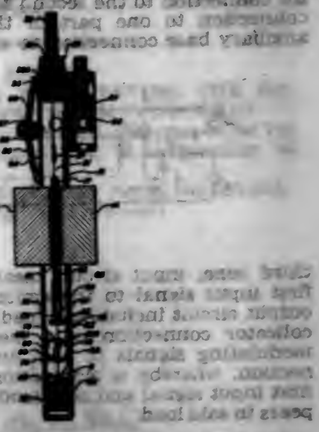
2,657,357
MULTIPLE SCALE ELECTRICAL TEST INSTRUMENT
Charles Rosso, Cimarron, N. Mex.
Application August 7, 1950, Serial No. 178,622
5 Claims. (Cl. 324—114)



5. In an electrical testing instrument having a casing provided with a pair of indicator openings, and an electrical measuring instrument located adjacent each opening with its indicator projecting beneath said opening, the improvement comprising a selector switch mounted in said casing having a rotor shaft, a disk secured to said rotor shaft having a plurality of individual meter scales adjacent its peripheral edge and spaced circumferentially with respect to one another to aline with the indicator openings beneath said indicators, a testing circuit network for said meters and resistance elements in said network adapted to be selectively connected in series and parallel with said meters, said disk being provided with areas having marked testing circuit diagrams thereon adapted to register with another opening in said casing corresponding to the circuit arrangement controlled by said selector switch whereby the testing circuit connections made by the selector switch will be visible to the operator.

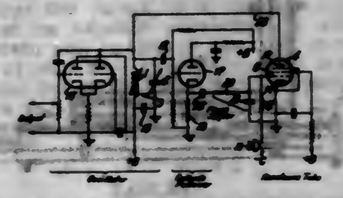
2,657,358
VARIABLE FREQUENCY RESPONSE GALVANOMETER
Arthur D. Richardson, Pasadena, Calif., assignor to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California
Application December 10, 1948, Serial No. 64,677
14 Claims. (Cl. 324—125)

11. In a galvanometer having a wire coil suspended by means of upper and lower suspension wires between the poles of a magnet and enclosed in a case, and frequency control means slidable in the case and adapted to engage the lower suspension wire to establish the frequency of the galvanometer, a damping sleeve comprising a first tube mounted within the case around the coil, a second tube mounted over the lower end of the first tube and extending beyond the lower end of the first tube, a flexible diaphragm closing the lower end of the second tube and sealed around the lower suspension wire above the frequency control means, and means for sealing the first tube to the second tube in such longitudinal relationship that the flexible diaphragm



cooperates with the frequency control means to establish the frequency response of the galvanometer, the first and second tubes being filled with a fluid to damp the movement of the coil.

2,657,359
FREQUENCY OR PHASE MODULATING SYSTEM
Murray G. Crosby, New Hyde Park, N. Y., assignor to Boonton Radio Corporation, Boonton, N. J., a corporation of New Jersey
Application August 25, 1950, Serial No. 181,484
9 Claims. (Cl. 332—19)

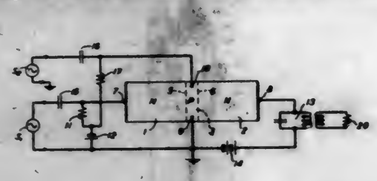


1. In a frequency or phase modulating system, the combination of a tunable frequency-determining circuit, a reactance tube shunted across said tunable circuit, and means for imposing a modulating voltage on said reactance tube; said circuit including a variable inductor shunted by a variable capacitor, and means ganging said inductor and capacitor for simultaneously adjusting the effective values thereof at relative rates with respect to the resonant frequency of said circuit to maintain over the tuning range a substantially constant deviation for a given modulating voltage on said reactance tube.

2,657,360
FOUR-ELECTRODE TRANSISTOR MODULATOR
Robert L. Wallace, Jr., Plainfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 15, 1952, Serial No. 304,580
11 Claims. (Cl. 332—53)

1. Signal translating apparatus which comprises a body of semiconductive material having therein a first and a second zone of one conductivity type and a third zone of opposite con-

ductivity type between said first and second zones and forming a first junction with the first zone and a second junction with the second zone, an emitter connection to the first zone, a collector connection to the second zone, a normal base connection to one part of the third zone, an auxiliary base connection to another part of the



third zone, input circuit means for applying a first input signal to the emitter connection, an output circuit including a load connected to said collector connection, and means for applying modulating signals to said auxiliary base connection, whereby a modulation product of said first input signal and said modulating signal appears in said load.

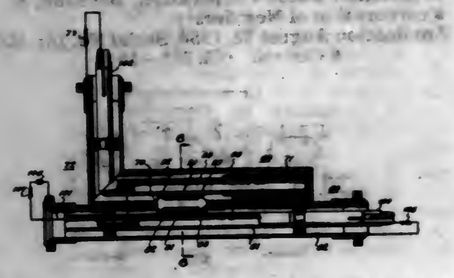
2,657,361

COAXIAL DIRECTIONAL COUPLER

Rudolf E. Henning, New York, N. Y., assignor to The Sperry Corporation, Great Neck, N. Y., a corporation of Delaware

Application January 27, 1950, Serial No. 140,833

4 Claims. (Cl. 333—10)



1. An ultra-high-frequency directional coupler comprising a first section of coaxial transmission line having an inner and outer conductor, a second section of coaxial transmission line having an inner and outer conductor, said second section being oriented parallel to said first section and having a common outer conductor wall section therewith, said common wall section having an axially directed coupling slot located therein, and a first thin conductive strip of width substantially less than the diameters of said inner conductors secured along one edge to the inner conductor of said first section, said strip extending longitudinally along the inner conductor opposite the coupling slot, a second thin conductive strip of width substantially less than the diameters of said inner conductors secured along one edge to the inner conductor of said second section, said second strip extending longitudinally along the inner conductor of said second section opposite the coupling slot, said strips projecting radially toward each other, the ends of said strips being tapered, the width of said coupling slot being greater than the diameters of said inner conductors.

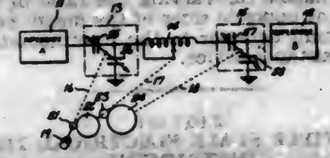
2,657,362

IMPEDANCE MATCHING NETWORK

William H. Epperson, Coral Gables, Fla., assignor to Aeronautical Communications Equipment, Inc., Miami, Fla., a corporation of Florida

Application May 15, 1951, Serial No. 226,517

7 Claims. (Cl. 333—33)



1. An impedance matching network for matching a first impedance to a second impedance comprising a first variable capacitive voltage divider connected between the first impedance and ground potential, a two-terminal variable inductor having one terminal connected to an intermediate capacitance point on said first voltage divider, a second variable capacitive voltage divider connected between the second terminal of said inductor and ground potential, said second impedance being connected to an intermediate capacitance point on said second voltage divider, and means for simultaneously varying the reactances of said inductor and said capacitive voltage dividers at different speeds to effect an impedance match.

2,657,363

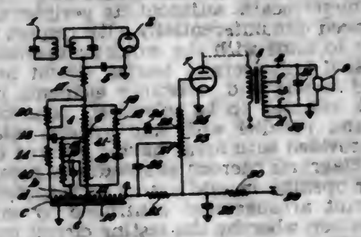
PHYSIOLOGICAL TONE CONTROL CIRCUIT

Henricus Adrianus Broes, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application July 12, 1949, Serial No. 104,224

In the Netherlands August 7, 1948

3 Claims. (Cl. 333—70)



1. A circuit arrangement for amplifying an input signal having high, medium and low frequency components, comprising an amplifier stage having an input circuit, and means to apply said signal to said input circuit and to vary the amplitude thereof, said means also varying the relative strength of said frequency components and comprising a potentiometer element having top, bottom and intermediate fixed contacts and a movable gain control contact, means to apply said signal between said top and bottom contacts, means to couple said movable contact and said bottom contact to said input circuit thereby to apply said signal to said input circuit, a first impedance network adapted to pass said high frequency components intercoupling said movable contact and one of said top and intermediate contacts thereby to emphasize said high frequency components with respect to said medium frequency components for positions of said movable gain control contact between said top and bottom contacts, a second impedance network adapted to by-pass said high and medium frequency components intercoupling said intermediate fixed contact and said bottom contact thereby to emphasize said low frequency components when said movable gain control contact is positioned between said top and intermediate contacts and means coupled between said movable contact and said second impedance network to increase the emphasis of said low frequency components with respect to said medium frequency components when said movable gain control contact is positioned between said intermediate fixed contact and said bottom contact.

2,657,364

PRESSURE CONTAINING FLEXIBLE WAVE GUIDE

Robert S. Carr, Maplewood, N. J., assignor to Airtron, Inc., Linden, N. J., a corporation of New Jersey

Application July 22, 1949, Serial No. 106,181

9 Claims. (Cl. 333—95)



2. A flexible waveguide comprising a tubular, cross-sectionally rectangular, substantially gas-impervious, electromagnetic microwave propagating core having axially spaced, transverse corrugations enabling it to be flexed, and a gas-impervious, flexible jacket surrounding said core in non-adherent relation to substantial outer surface portions thereof and gas-tightly associated with the core at the jacket's opposite ends; the said core having a passage through a wall thereof affording gas communication between the interior and the exterior of the core to substantially equalize the gas pressure acting upon the inside and outside surfaces of the core and the greatest diameter of said passage being no greater than the space between adjacent corrugations of the core.

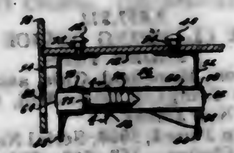
2,657,365

VARIABLE INDUCTANCE AND MOUNTING MEANS THEREFOR

Angelo G. Lamery, Oaklyn, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application March 31, 1950, Serial No. 153,266

14 Claims. (Cl. 336—142)



1. A multiple band, high frequency tuning unit, comprising in combination, a mounting and support means, a hollow elongated coil form, said first named means including a pair of L-shaped spaced bracket members each having two arms of unequal length, means providing an aperture in the longer arm of each bracket of a diameter slightly greater than that of said coil form, a cupped retainer portion about the rim of said aperture resiliently engaging the ends of said coil form, and a barbed projection extending into said first named aperture from the rim thereof and physically engaging the coil form and preventing rotation thereof.

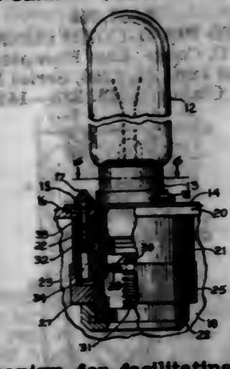
2,657,366

MECHANISM FOR FACILITATING THE REMOVAL OF A LAMP FROM ITS SOCKET

George F. Kritzer, Chicago, Ill., assignor to De Vry Corporation, Chicago, Ill., a corporation of Illinois

Application October 31, 1952, Serial No. 317,946

5 Claims. (Cl. 339—45)



1. A mechanism for facilitating the removal of a lamp from its socket, in which socket the lamp has been inserted by a straight thrust and a partial turn, comprising the combination with a flange on the lamp base and provided with a plurality of bayonet slots and latch pins carried by the socket and having latch heads yieldably held against the flange, of a ring mounted on said socket for rotation concentrically with respect thereto and having in one face thereof a plurality of cam slots engageable with the ends of the pins for projecting the pins relative to the socket to a position to disengage the latch heads from said flange.

2,657,367

ELECTRICAL SOCKET CONNECTOR WITH SUPPORTING CLIP

Linzy W. Brooks, Portland, Oreg., assignor to On-A-Lite Corporation, Portland, Oreg., a corporation of Oregon

Original application May 4, 1948, Serial No. 24,941. Divided and this application November 21, 1949, Serial No. 128,583

5 Claims. (Cl. 339—99)



3. In a miniature light socket fixture having a body member with a light bulb socket in one end of the body and a conductor cord channel

in the other end of the body equipped with piercing contact pins to energize said socket, a cap for said channelled end of the body member to press a conductor cord in said channel against said contact pins, a central opening in the end of said cap, and a pair of separate, opposed spring clip members having inner end portions clamped together in said cap opening to impart spring gripping action to the outer ends of said clip members for holding the fixture in upstanding position on a support, the clamping action thus exerted on said inner end portions of said clip members constituting the sole retention for said clip members in the cap.

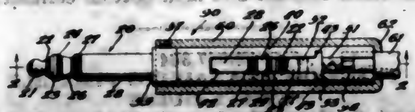
2,657,368
TWISTED PLUG-CORD CONNECTOR
Francis C. Cooke, East Hampton, Conn.
Application June 26, 1950, Serial No. 170,421
2 Claims. (Cl. 339—143)



1. An electrical connector comprising a pair of cords for connection to an electrical appliance and each having a conductor and a rubber insulating cover, a pair of substantially flat blades, each of the blades being electrically connected to one of the conductors and extending outwardly from the cover thereof, the blades having recessed side edges, and a clamp disposed over the cords and clamping the cords together, the clamp being located a short distance from the blades and preventing twisting movement of the cords at that point, the cords being free for independent twisting movement, and movement toward and away from each other, between the clamp and the adjacent ends of the cords, twisting movement of the cords being resisted by the inherent resilience of said rubber covers, said cords being adapted to be twisted from their normal positions between said clamp and their adjacent ends, whereby each of said blades may be engaged by one of a pair of inlet terminals in a fuse block, the block being provided with two recesses, each bounded in part by one of the inlet terminals and a shouldered portion, each of said blades extending into one of the recesses and having the recessed side edges thereof engaging the terminal and the shouldered portion respectively, and the inherent resilience of the cords maintaining firm engagement between said blades and the inlet terminals.

2,657,369
SWITCHBOARD PLUG
John J. Ziemianin, Jr., Chicago, Ill.
Application December 6, 1951, Serial No. 260,122
8 Claims. (Cl. 339—183)

1. In a terminal plug for use in telephone switchboards or the like, a conductor plug having symmetrical end portions whereby the conductor plug is reversible in a holder, a cylindrical holder formed with spaced apart slots on its periphery and having an elongated central recess therein for receiving the conductor plug, the elongated recess terminating at a body portion of the holder, other slots extending transversely of each of the first-named slots and extending into the body portion of the holder, terminal contacts mounted on the body portion of the holder



and each having a contact spring with arms extending transversely therefrom, the terminal contacts being spaced apart from each other with the arms thereof positioned in the said other slots and the contact springs thereof freely disposed in the first-named slots, the contact springs being adapted to engage different conducting elements of the conductor plug, and an outer shell surrounding the holder whereby the terminal contacts are maintained in position about the body portion of the holder.

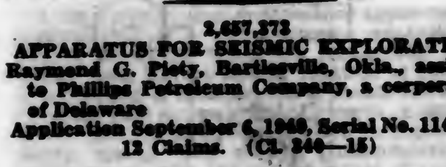
2,657,370
CABLE TERMINAL
Judson M. Hobson, Garden Grove, Calif.
Application June 6, 1950, Serial No. 166,355
3 Claims. (Cl. 339—262)



1. In an electrical cable terminal: a collar having a wall adapted to loosely encompass a terminal post; a lateral extension on said collar having a bore opening through said wall; a sleeve mounted in said bore and having a conically flaring inner end; threaded means interacting between said extension and said sleeve for advancing said sleeve rotatively towards said collar; and a gib carried slidably within said bore beyond said sleeve so as to extend through said wall to engage said post, and having a conical end adapted to wedge the ends of wires threaded through said sleeve against the conical end of said sleeve, said gib having a surface arranged to interlock with said post to prevent rotation of said gib when said gib is pressed against said post.

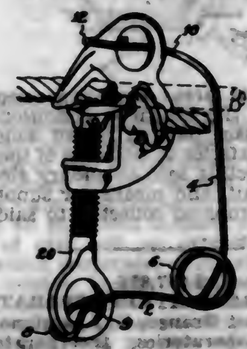
2,657,371
CABLE CLAMPING DEVICE FOR FEEDER TAPS
Elmo F. Huston, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application June 1, 1950, Serial No. 165,435
2 Claims. (Cl. 339—250)

1. A cable clamping device for use in a feeder tap comprising a fuse-receiving plug having a body portion provided with a longitudinally extending, generally cylindrical, cable-receiving recess of greater cross-sectional area than the cable to be clamped therein, and a cam lever pivoted in said body portion, said lever being of less width than the diameter of said recess, having a cam-shaped, transversely convex inner edge surface defining with the walls of said cable-receiving recess a space of crescent-shaped cross-section of slightly less cross-sectional area than that of the cable to be clamped therein, said cam lever



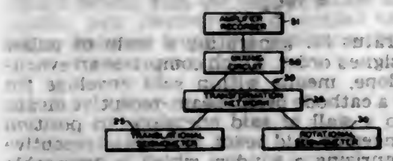
being movable to bring its cam-shaped convex edge surface into the cable-receiving recess and to spread the end of the cable in said recess into substantially all parts of said crescent-shaped space and to clamp the cable in place therein.

2,657,372
CLAMP RETAINER
Guilford H. Mowers, Fargo, N. Dak.
Application September 17, 1952, Serial No. 310,099
5 Claims. (Cl. 339—264)



4. In combination with a hot line clamp having a yoke formed with a stationary jaw and an eye in said yoke, and an eye bolt mounted in said yoke for actuating a movable jaw, a retainer comprising a length of spring wire having a hooked end extending through the eye in said yoke and hooked to and braced against said yoke, and said wire having its other end secured to the head of said eyebolt to prevent said eye bolt from turning.

2,657,373
APPARATUS FOR SEISMIC EXPLORATION
Raymond G. Piety, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application September 6, 1949, Serial No. 114,094
12 Claims. (Cl. 340—15)



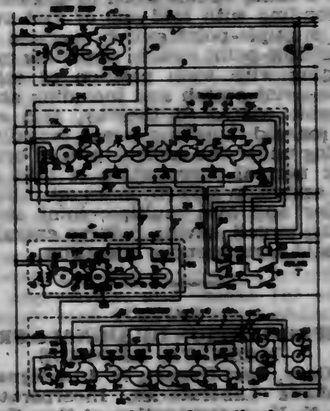
1. Apparatus for seismic exploration which comprises, in combination, means for generating a first electrical voltage representing a function of the derivative of translational earth movement with respect to time, means for generating a second voltage representing the same function of rotational earth movement, an electrical transformation network coupled to both generating means, said network being so constructed and arranged that one of said voltages is attenuated with respect to the other of said voltages, means for mixing said voltages to provide a resultant voltage, and means for measuring the resultant voltage.

2,657,374
SUSPENSION SYSTEM FOR SEISMOGRAPH DETECTORS
Thomas Bardeen, Penn Township, Allegheny County, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application November 2, 1949, Serial No. 125,923
13 Claims. (Cl. 340—17)



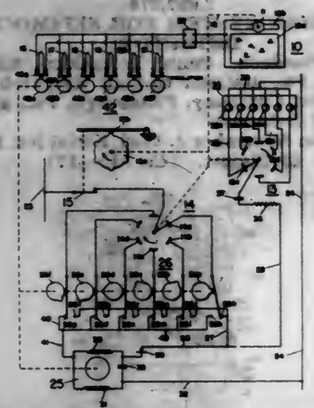
1. A seismograph detector comprising a magnet, with an airgap forming a part of said magnet, a mass resiliently supported in said airgap, a coil carried by said mass and movable therewith in said gap, said coil being connectable to an external current-indicating means for registering motion thereof, a magnetic leakage yoke carried by said magnet and adapted to form a path for leakage flux thereof, and ferro-magnetic means movable with said mass and having a portion spaced from said yoke.

2,657,375
SIGNAL CONTROL SYSTEM
Joseph N. Paul, Norwalk, Conn.
Application June 7, 1950, Serial No. 166,648
21 Claims. (Cl. 340—46)



1. In apparatus such as described, supervisory circuit means, a master timer having means to make and break said circuit means, a pair of secondary supervisory circuits, a timing adjuster maintained in timed relation with said master timer by said supervisory circuit means, said timing adjuster having means to make and break said circuits alternately, and a signal timer maintained in timed relation with said timing adjuster by said secondary circuits.

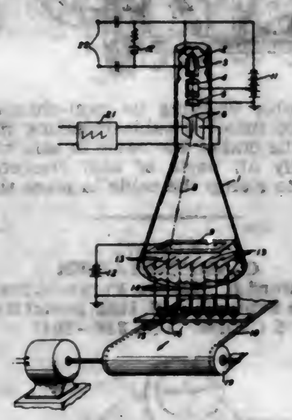
2,657,276
CONTROL SYSTEM FOR MULTIPLE-POINT MEASURING INSTRUMENT
Will McAdam, Ambler, Pa., assignor to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 23, 1949, Serial No. 134,670
8 Claims. (Cl. 340—213)



5. A signalling system for a controller including a multiple-point circuit controller having a plurality of single-pole, double-throw switches operable in sequence between their circuit-controlling positions, a motor for advancing said circuit controller for operation of first one of said switches and then another, an alternating current energizing circuit for said motor normally partially completed by all except one of said single-pole, double-throw switches while in corresponding circuit-controlling positions, a braking circuit for said motor partially completed by said one of said single-pole, double-throw switches, said braking circuit including a rectifier, a multiple-point switch having each point thereof connected in series with one of said single-pole, double-throw switches for completion of said braking circuit when in angular relation corresponding with said one of said switches, a second multiple-point switch operable with said first multiple-point switch, signalling means corresponding with each position of said second multiple-point switch and including an energizing circuit controlled thereby, said energizing circuit for said signalling means including a part, and being under the control, of said braking circuit for normal energization of said signalling means, and upon asynchronous operation of said controller and said multiple-point switch said signalling circuit having reduced energization to signal said asynchronous operation.

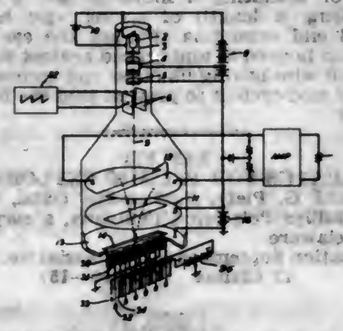
2,657,277
REPRODUCTION OF SIGNALS FROM MAGNETIC RECORDS
Frank Gray, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 25, 1951, Serial No. 228,246
6 Claims. (Cl. 340—345)

1. Apparatus for reproducing an electric signal from a magnetic condition space pattern record thereof which comprises an evacuated envelope, means within said envelope for projecting a cathode beam, beam-receptive means sealed into a wall of said envelope in position to be impinged by said beam, said beam-receptive means comprising a window which is permeable to magnetic flux, the inside face of said window having secondary electron emission properties, a magnetic condition space pattern record disposed in magnetizing relation with the exterior face of said window, means for causing said cathode beam to impinge successively on different areas of said window to eject from each



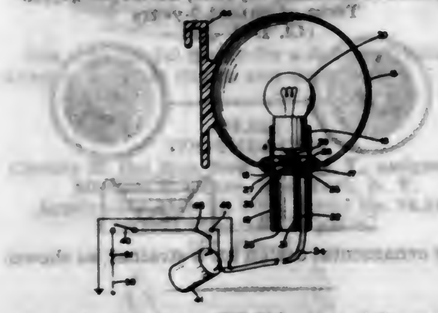
of said different areas secondary electrons in dependence on the magnetic condition of that part of said space pattern record which is instantaneously exterior to said area of the window, means for collecting said secondary electrons, a utilization circuit, and means for supplying the secondary electrons so collected to said utilization circuit.

2,657,278
PULSE TRANSLATION APPARATUS
Frank Gray, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 25, 1951, Serial No. 228,247
3 Claims. (Cl. 340—345)



1. Apparatus for generating a train of pulses in a preassigned order, which comprises an evacuated envelope, means within said envelope for projecting a cathode beam, beam-receptive means sealed into a wall of said enevelope in position to be impinged by said beam, said beam-receptive means comprising a window which is permeable to magnetic flux, the inside face of said window having secondary electron emission properties, a plurality of individually controllable magnets disposed in a preassigned arrangement and in magnetizing relation with the exterior face of said window, means for individually controlling the magnetic condition of each of said magnets, means for sweeping said cathode beam along said window to eject therefrom secondary electrons in dependence on the magnetic conditions of said magnets, means for collecting said secondary electrons, an output circuit, and means for supplying the current of said secondary electrons as a pulse train to said output circuit.

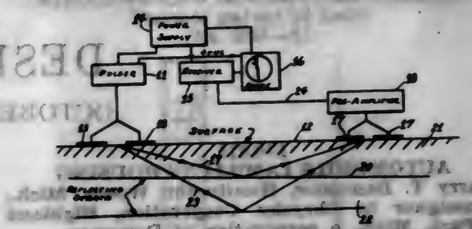
2,657,279
WARNING DEVICE FOR VEHICLES
Joseph P. Zappia, Maple Heights, Ohio
Application February 8, 1952, Serial No. 270,679
4 Claims. (Cl. 340—386)



1. A warning light for an automobile comprising: a translucent ball having an opening in the bottom portion thereof, a hook member secured to the side of said ball, a socket member secured in the opening in the bottom of the ball and having a light bulb engaging portion within the ball and an extension member engaging portion outside of said ball, an extension member one end of which cooperates with said engaging portion, a window bracket adapted to be secured between the top edge of the automobile window and the window frame including means for holding said extension member upright above said automobile, and electrical wires connected to said socket member for connecting a bulb within said socket to the electrical system of said automobile.

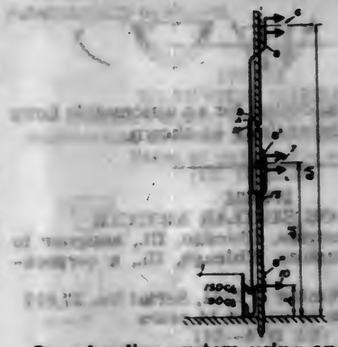
2,657,280
UNDERGROUND PROSPECTING SYSTEM
Charles A. Donaldson, Del Rio, Tex.
Application January 9, 1950, Serial No. 137,575
6 Claims. (Cl. 343—13)

1. In a geophysical prospecting apparatus, the combination of a low frequency generator arranged to provide successive rectangular output pulses, each having a total duration of the order of a fraction of a microsecond, means electrically coupling said generator to the earth, a video receiver including an oscilloscope provided with sweep means, and means synchronizing said sweep means with the output pulses of said generator, said receiver being coupled to the earth at a distance from the generator of the same order as the distance between successive underground interfaces and being arranged to pick up respective reflections of a pulse from successive



subsurface formations, said receiver being further arranged to provide separate visual indications of the respective reflections on said oscilloscope.

2,657,281
BLIND LANDING SYSTEM
Emile Eichen, Boulogne-Billancourt, France, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application September 12, 1951, Serial No. 246,202
In France September 13, 1950
1 Claim. (Cl. 343—108)

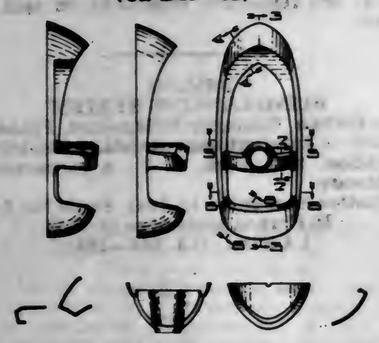


In a landing system using an array of aerials for radiating two fields of electro-magnetic waves modulated with different characteristic signals, which waves are reflected from ground and in which the landing trajectory is determined by the equality of the different signals comprising the modulation of said waves, an aerial system comprising, a first antenna mounted at a height h above the effective ground plane, means for supplying energy modulated with one of said characteristic signals to said first antenna, second and third antennae disposed above said first antenna at heights of $4h$ and $8h$ respectively, and means for supplying energy modulated with the other characteristic signal to said second and third antennae.

DESIGNS

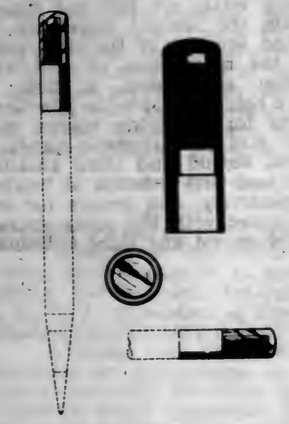
OCTOBER 27, 1953

170,674
AUTOMOBILE LAMP LENS HOUSING
Harry T. Bannister, Huntington Woods, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application May 12, 1953, Serial No. 24,963
Term of patent 7 years
(Cl. D42—31)



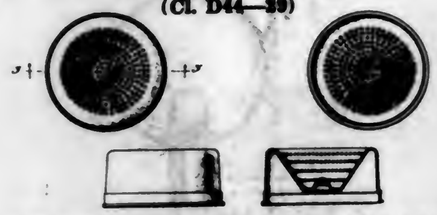
The ornamental design for an automobile lamp lens housing, substantially as shown.

170,675
PENCIL OR SIMILAR ARTICLE
Garfield L. Beckstrom, Chicago, Ill., assignor to Autopoint Company, Chicago, Ill., a corporation of Illinois
Application November 5, 1951, Serial No. 17,293
Term of patent 14 years
(Cl. D74—24)



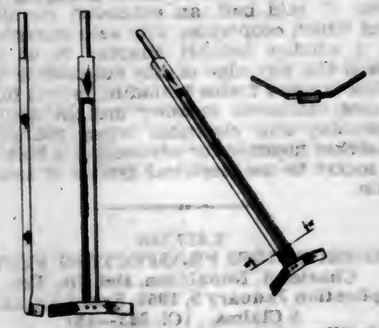
The ornamental design for a pencil or similar article, substantially as shown and described.

170,676
STRAINER
Vincent Paul Bourne-Vanneck, New York, N. Y.
Application October 10, 1952, Serial No. 21,795
Term of patent 7 years
(Cl. D44—29)



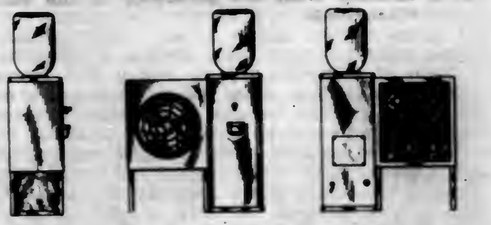
The ornamental design for a strainer, as shown.

170,677
HOOP-ROLLING STICK OR SIMILAR ARTICLE
Thomas M. Chrisco, Fresno, Calif.
Application November 17, 1952, Serial No. 22,328
Term of patent 14 years
(Cl. D34—5)



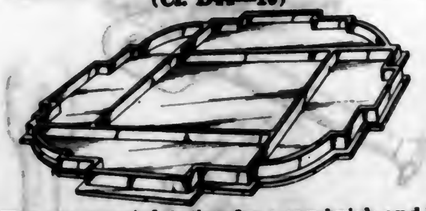
The ornamental design for a hoop-rolling stick or similar article, as shown.

170,678
COMBINED WATER COOLER AND FAN
Benjamin Cisenfeld, Baltimore, Md.
Application February 12, 1953, Serial No. 23,589
Term of patent 7 years
(Cl. D67—4)



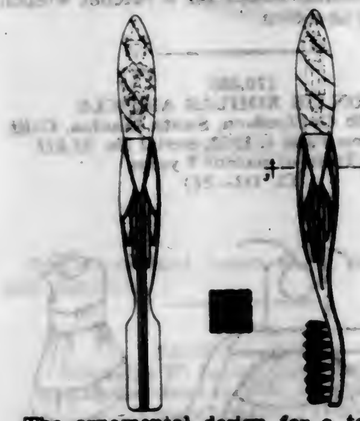
The ornamental design for a combined water cooler and fan, as shown.

170,679
SANDWICH AND HORS D'OEUVRE TRAY
Christy M. Del Mas, New York, N. Y., assignor to Michael P. Grace, New York, N. Y.
Application December 12, 1952, Serial No. 22,682
Term of patent 14 years
(Cl. D44—10)



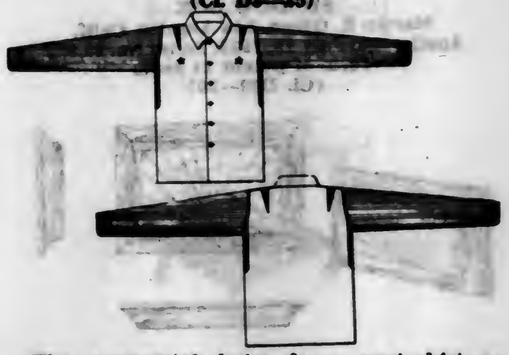
The ornamental design for a sandwich and hors d'oeuvre tray, as shown and described.

170,680
TOOTHBRUSH
Christy M. Del Mas, New York, N. Y., assignor to Michael P. Grace, New York, N. Y.
Application May 11, 1953, Serial No. 24,949
Term of patent 14 years
(Cl. D9—2)



The ornamental design for a toothbrush, as shown and described.

170,681
SPORT SHIRT
Ray S. Dougherty, Kittanning, Pa.
Application July 1, 1953, Serial No. 25,747
Term of patent 7 years
(Cl. D3—25)



The ornamental design for a sport shirt, as shown.

170,682
PORCH COLUMN
Winford L. Enghauser, Cincinnati, Ohio
Application April 15, 1953, Serial No. 24,523
Term of patent 14 years
(Cl. D12—1)

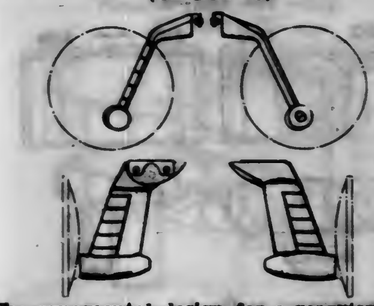


The ornamental design for a porch column, substantially as shown.

170,683
REARVIEW MIRROR
Joseph Fischer, Pelham Manor, N. Y.
Application October 23, 1952, Serial No. 21,956
Term of patent 3½ years
(Cl. D14—6)

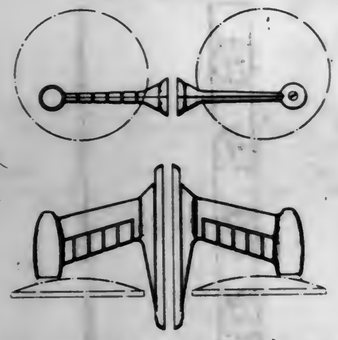
The ornamental design for a rearview mirror, substantially as shown and described.

170,684
REARVIEW MIRROR
Joseph Fischer, Pelham Manor, N. Y.
Application October 27, 1952, Serial No. 22,000
Term of patent 3½ years
(Cl. D14—6)



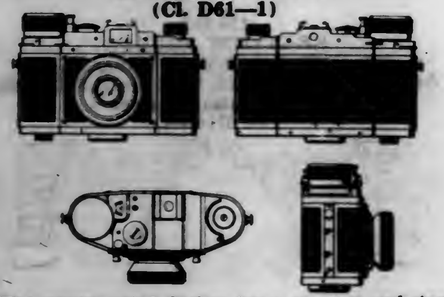
The ornamental design for a rearview mirror, substantially as shown and described.

170,685
REARVIEW MIRROR
Joseph Fischer, Pelham Manor, N. Y.
Application October 30, 1952, Serial No. 22,056
Term of patent 14 years
(Cl. D14—6)



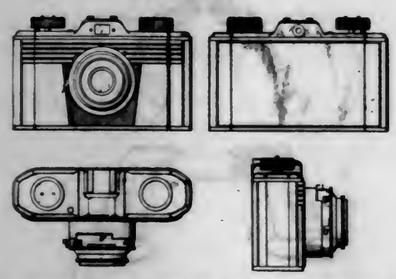
The ornamental design for a rearview mirror, substantially as shown and described.

170,686
CAMERA
Charles H. Frank, Jr., Merrick, N. Y., assignor to Ercona Camera Corp., New York, N .Y.
Application April 29, 1953, Serial No. 24,753
Term of patent 7 years
(Cl. D61—1)



The ornamental design for a camera, substantially as shown.

170,687
CAMERA
Charles H. Frank, Jr., Merrick, N. Y., assignor to Ercona Camera Corp., New York, N .Y.
Application April 29, 1953, Serial No. 24,754
Term of patent 7 years
(Cl. D61—1)



The ornamental design for a camera, substantially as shown.

170,688
RATCHET WRENCH
John N. Gerlach, Santa Ana, Calif.
Application August 16, 1952, Serial No. 21,063
Term of patent 14 years
(Cl. D54—16)



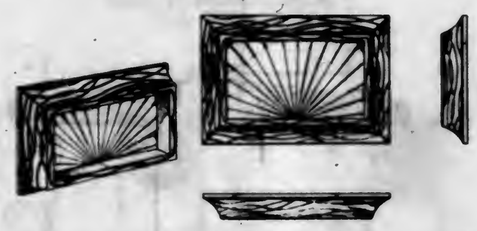
The ornamental design for a ratchet wrench, substantially as shown.

170,689
APRON OR SIMILAR ARTICLE
Dee Elizabeth Godfredsen, Santa Monica, Calif.
Application June 4, 1953, Serial No. 25,315
Term of patent 7 years
(Cl. D2—26)



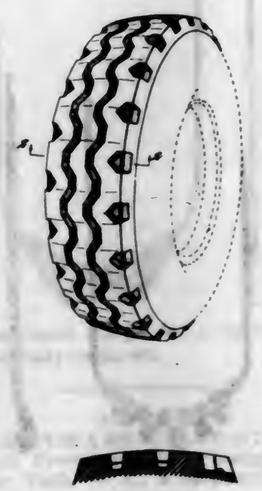
The ornamental design for an apron or similar article, as shown.

170,690
SHADOW BOX
Marvin E. Green, Los Angeles, Calif.
Application July 13, 1953, Serial No. 25,899
Term of patent 14 years
(Cl. D29—20)



The ornamental design for a shadow box, as shown.

170,691
TIRE
Earle W. Hawkinson, Minneapolis, Minn., assignor to Paul E. Hawkinson Co., Minneapolis, Minn., a corporation of Minnesota
Application May 28, 1953, Serial No. 25,239
Term of patent 14 years
(Cl. D90—20)



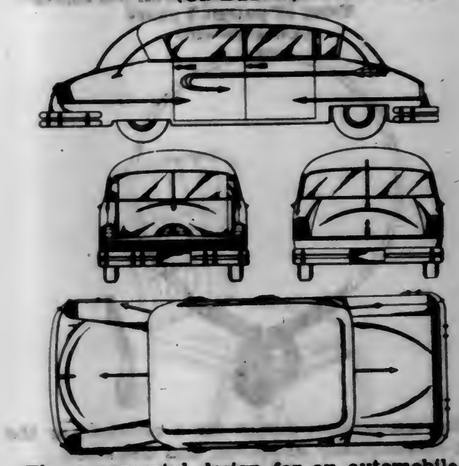
The ornamental design for a tire, as shown and described.

170,692
SERVING TABLE
Franklyn W. Jacoby, New York, N. Y.
Application June 11, 1953, Serial No. 25,440
Term of patent 7 years
(Cl. D14—3)



The ornamental design for a serving table, as shown.

170,693
AUTOMOBILE
Imogene H. Johnson, Tulsa, Okla.
Application August 25, 1953, Serial No. 26,578
Term of patent 14 years
(Cl. D14—3)



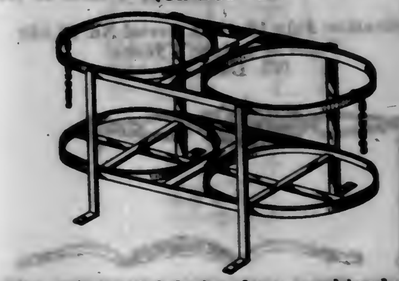
The ornamental design for an automobile, as shown.

170,694
GIRDLE
Mack Kahn, Cedarhurst, N. Y., assignor to Artistic Foundations, Inc., New York, N. Y., a corporation of New York
Application December 11, 1952, Serial No. 22,628
Term of patent 3½ years
(Cl. D28—2)



The ornamental design for a girdle, substantially as shown.

170,695
COMBINED GARBAGE AND TRASH CAN HOLDER
Stanley W. Kane, Racine, Wis.
Application January 26, 1953, Serial No. 23,289
Term of patent 14 years
(Cl. D68—17)



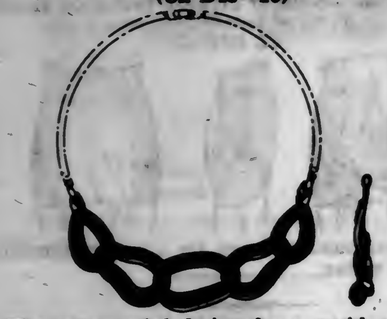
The ornamental design for a combined garbage and trash can holder, as shown and described.

170,696
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1953, Serial No. 25,973
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

170,697
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1953, Serial No. 25,974
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

170,698
BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1953, Serial No. 25,983
Term of patent 7 years
(Cl. D45—4)



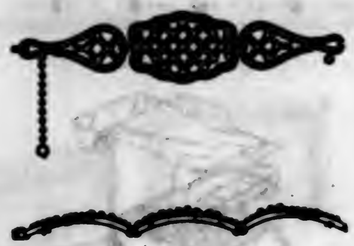
The ornamental design for a bracelet or the like, substantially as shown.

170,699
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1953, Serial No. 25,984
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown.

170,700
BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1953, Serial No. 25,990
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet or the like, substantially as shown.

170,701
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1953, Serial No. 25,991
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown.

170,702
LINK CHAIN FOR A BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 22, 1953, Serial No. 26,080
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a link chain for a bracelet or the like, substantially as shown.

170,703
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 22, 1953, Serial No. 26,084
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

170,704
CHAIR
Hans J. Kaufman, Allegany, N. Y., assignor to Daystrom Corporation, Olean, N. Y., a corporation of New York
Application August 25, 1952, Serial No. 21,180
Term of patent 7 years
(Cl. D15—8)



The ornamental design for a chair, substantially as shown.

170,705
GUN CABINET
Clarence H. Krueger, Bovey, Minn.
Application September 8, 1952, Serial No. 21,275
Term of patent 14 years
(Cl. D32—19)



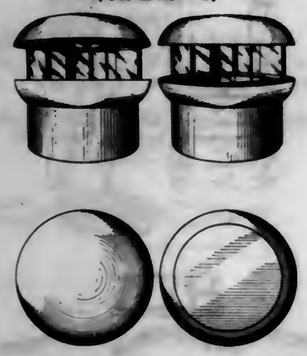
The ornamental design for a gun cabinet, as shown.

170,706
TOY SAVINGS BANK
Rex V. Lentz, Dallas, Tex.
Application December 24, 1952, Serial No. 22,867
Term of patent 14 years
(Cl. D34—11)



The ornamental design for a toy savings bank, as shown.

170,707
VENDING STAND
Edwin G. Lindgren, La Grange Park, Ill.
Application July 29, 1953, Serial No. 26,177
Term of patent 14 years
(Cl. D12—1)



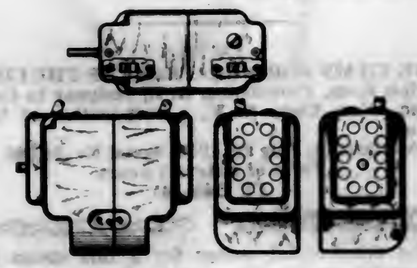
The ornamental design for a vending stand, substantially as shown.

170,708
DRESS ENSEMBLE
Herman Lipman, New York, N. Y.
Application July 15, 1953, Serial No. 25,959
Term of patent 3½ years
(Cl. D2—26)



The ornamental design for a dress ensemble, substantially as shown.

170,709
ELECTRIC MOTOR
Henry E. Lund, Racine, Wis.
Application April 30, 1953, Serial No. 24,774
Term of patent 3½ years
(Cl. D26—5)



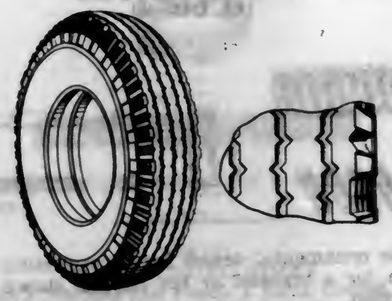
The ornamental design for an electric motor, substantially as shown.

170,710
VEHICLE TIRE
Arthur H. Nellen, Philadelphia, Pa., assignor to Lee Rubber & Tire Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application August 24, 1953, Serial No. 26,549
Term of patent 14 years
(Cl. D90—20)



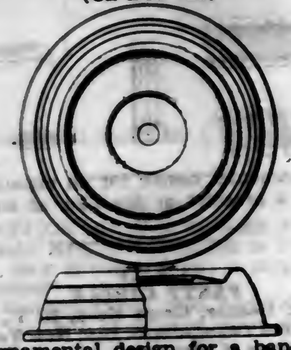
The ornamental design for a vehicle tire, as shown.

170,711
VEHICLE TIRE
Arthur H. Nellen, Philadelphia, Pa., assignor to Lee Rubber & Tire Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application August 24, 1953, Serial No. 26,550
Term of patent 14 years
(Cl. D90—20)



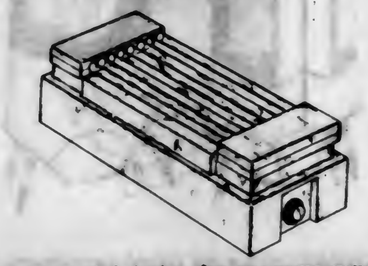
The ornamental design for a vehicle tire, as shown.

170,712
BANQUET COVER
David L. Painter, Evanston, Ill., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application January 7, 1953, Serial No. 23,054
Term of patent 14 years
(Cl. D44—15)



The ornamental design for a banquet cover, substantially as shown.

170,713
OZONE GENERATOR UNIT
William A. Pardey, Portland, Oreg.
Application October 31, 1952, Serial No. 22,073
Term of patent 14 years
(Cl. D16—3)



The ornamental design for an ozone generator unit, as shown and described.

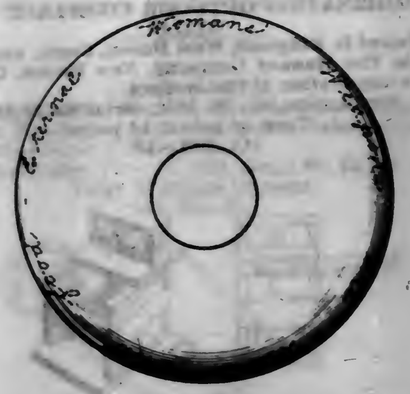
170,714
DOLL
Mary W. Peters, Boulder, Colo.
Application August 6, 1953, Serial No. 26,235
Term of patent 14 years
(Cl. D34—2)



The ornamental design for a doll, as shown.

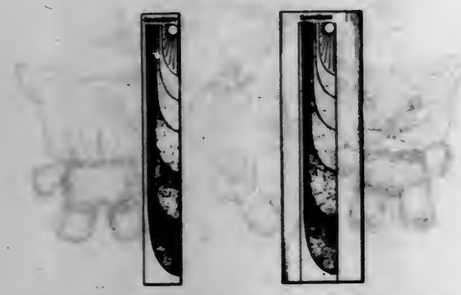
170,715
BOWL
Wilma Doris Pusecker, Columbus, Ohio
Application October 18, 1951, Serial No. 17,900
Term of patent 3½ years
(Cl. D44—10)





The ornamental design for a bowl, substantially as shown and described.

170,716
CIGARETTE
Helen Marie Roseska, Brooklyn, N. Y.
Application May 19, 1953, Serial No. 25,109
Term of patent 14 years
(Cl. D35—6)



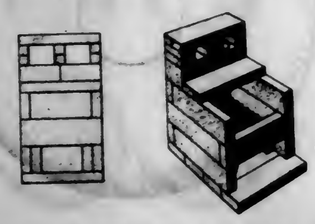
The ornamental design for a cigarette, as shown and described.

170,717
ORNAMENT FOR CANDLELIGHTS
Myer Rieaman, Chestnut Hill, Mass., assignor to Royal Electric Company, Inc., Pawtucket, R. I., a corporation of Rhode Island
Application October 29, 1952, Serial No. 22,031
Term of patent 14 years
(Cl. D29—1)



The ornamental design for an ornament for candlelights, substantially as shown and described.

170,718
COMBINATION OUTDOOR FIREPLACE AND GRILL
Edward D. Ringwall, West Haven, Conn., assignor to The Howard Company, New Haven, Conn., a corporation of Connecticut
Application July 30, 1952, Serial No. 20,812
Term of patent 14 years
(Cl. D61—10)



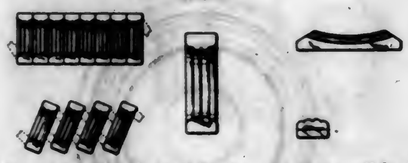
The ornamental design for a combination outdoor fireplace and grill, substantially as shown.

170,719
EXPANSIBLE LINK CHAIN FOR A BRACELET OR THE LIKE
Emil Rodriguez, New York, N. Y., assignor to Jacoby-Bender, Inc., New York, N. Y., a corporation of New York
Application June 8, 1953, Serial No. 25,367
Term of patent 7 years
(Cl. D45—4)



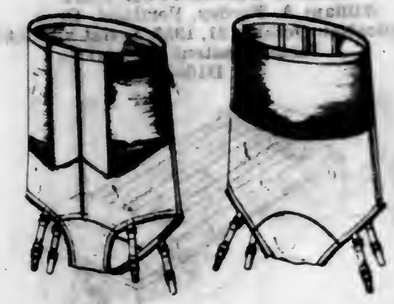
The ornamental design for an expansible link chain for a bracelet or the like, as shown and described.

170,720
EXPANSIBLE LINK CHAIN FOR A BRACELET OR THE LIKE
Emil Rodriguez, New York, N. Y., assignor to Jacoby-Bender, Inc., New York, N. Y., a corporation of New York
Application June 8, 1953, Serial No. 25,368
Term of patent 7 years
(Cl. D45—4)



The ornamental design for an expansible link chain for a bracelet or the like, as shown and described.

170,721
PANTY GIRDLE
Leonard A. Rosner, Great Neck, N. Y., assignor to Even-Pul Foundations, Inc., New York, N. Y., a corporation of New York
Application August 18, 1952, Serial No. 21,089
Term of patent 3½ years
(Cl. D28—2)



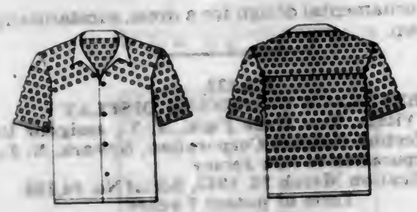
The ornamental design for a panty girdle, as shown.

170,722
FINGER RING
Abraham G. Sager, Chicago, Ill.
Application July 27, 1953, Serial No. 26,158
Term of patent 14 years
(Cl. D45—10)



The ornamental design for a finger ring, as shown.

170,723
SUN TANNING SHIRT
John J. Secesky and Frank J. Sabo, United, Pa.
Application July 20, 1953, Serial No. 26,054
Term of patent 14 years
(Cl. D2—25)



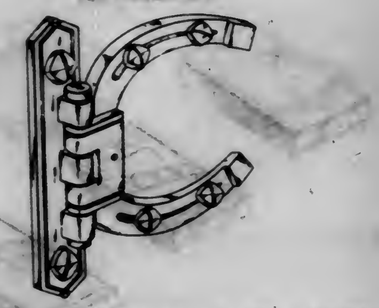
The ornamental design for a sun tanning shirt, as shown.

170,724
COMBINATION DOOR KNOCKER AND PULL
Gerald Stahl, Rye, N. Y., assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut
Application February 3, 1953, Serial No. 23,412
Term of patent 7 years
(Cl. D10—7)



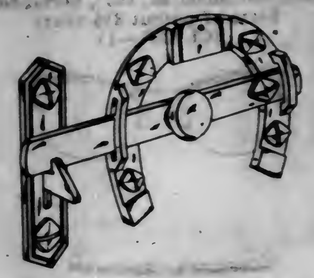
The ornamental design for a combination door knocker and pull, substantially as shown and described.

170,725
HINGE
Gerald Stahl, Rye, N. Y., assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut
Application February 3, 1953, Serial No. 23,413
Term of patent 7 years
(Cl. D10—9)



The ornamental design for a hinge, substantially as shown and described.

170,726
BAR LATCH
Gerald Stahl, Rye, N. Y., assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut
Application February 3, 1953, Serial No. 23,414
Term of patent 7 years
(Cl. D50—5)



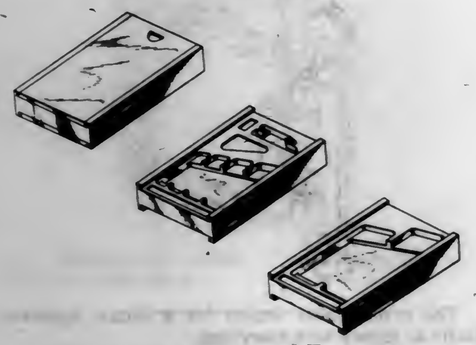
The ornamental design for a bar latch, substantially as shown and described.

170,727
CORNER SINK
Jacques Stanitz, Warren, Ohio, assignor to Mullins Manufacturing Corporation, Salem, Ohio, a corporation of New York
Application June 30, 1953, Serial No. 25,741
Term of patent 14 years
(Cl. D4—3)



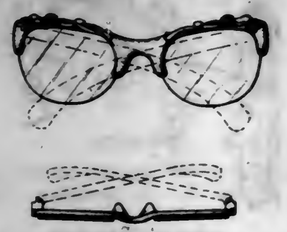
The ornamental design for a corner sink, substantially as shown.

170,728
DOUBLE TOOLBOX
Giuseppe Tavolazzi, Como, Italy, assignor to Tavolazzi & Fumagalli, Milan, Italy, a firm of Italy
Application February 25, 1953, Serial No. 23,776
In Italy September 27, 1952
Term of patent 7 years
(Cl. D58—13)



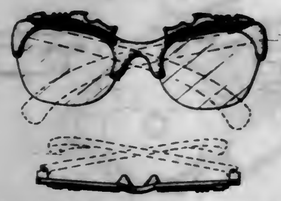
The ornamental design for a double toolbox, as shown and described.

170,729
PAIR OF GOGGLES
Helmut G. Tietje, Cresskill, N. J., assignor to Columbia Protektosite Company, Inc., a corporation of Delaware
Application November 22, 1952, Serial No. 22,406
Term of patent 3½ years
(Cl. D57—1)



The ornamental design for a pair of goggles, as shown and described.

170,730
PAIR OF GOGGLES
Helmut G. Tietje, Cresskill, N. J., assignor to Columbia Protektosite Company, Inc., a corporation of Delaware
Application November 22, 1952, Serial No. 22,407
Term of patent 3½ years
(Cl. D57—1)



The ornamental design for a pair of goggles, as shown and described.

170,731
DRESS
Barbara C. Tilhou, Philadelphia, Pa., assignor to Rosenau Brothers, Inc., a corporation of Pennsylvania
Application June 5, 1953, Serial No. 25,339
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

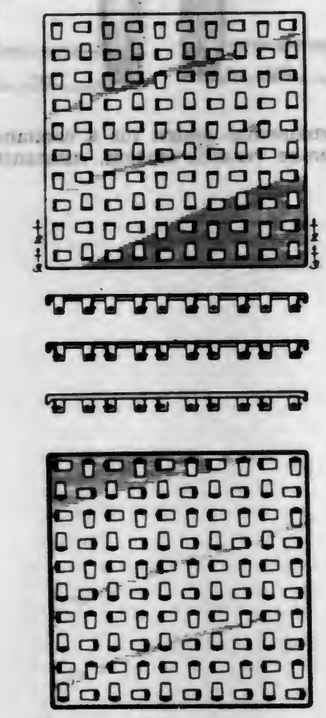
170,732
BEVERAGE DISPENSER DISPLAY
Santo Vitale, New Hyde Park, N. Y., assignor to Confection Cabinet Corporation, Newark, N. J., a corporation of New Jersey
Application March 26, 1953, Serial No. 24,198
Term of patent 7 years
(Cl. D60—1)





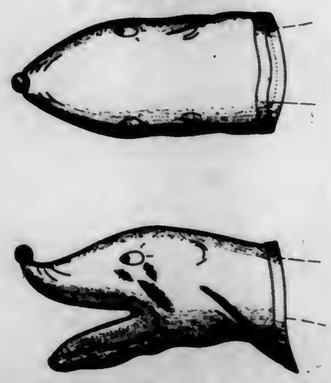
The ornamental design for a beverage dispenser display, as shown.

170,733
FLOOR PLATE
Allen B. Wilson, Evanston, Ill., assignor to Acme Steel Company, Chicago, Ill., a corporation of Illinois
Application March 15, 1951, Serial No. 14,516
Term of patent 14 years
(Cl. D54—3)



The ornamental design for a floor plate, as shown.

170,734
WASHCLOTH
Edward E. Wright, San Diego, Calif.
Application June 1, 1953, Serial No. 25,287
Term of patent 7 years
(Cl. D9—2)



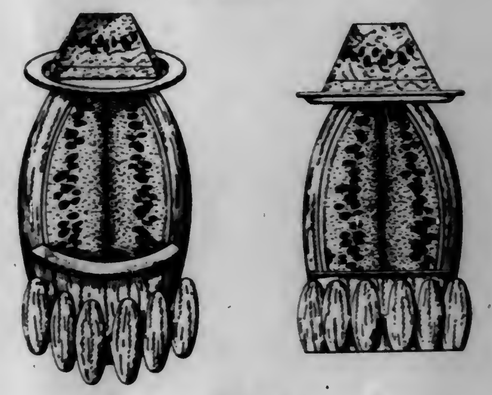
The ornamental design for a wash cloth, as shown.

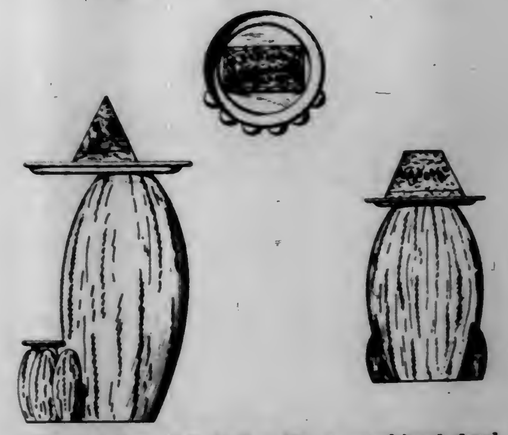
170,735
DISH OR THE LIKE
Eva Zeisel, New York, N. Y., assignor to Midhurst China Company, Inc., New York, N. Y., a corporation of Ohio
Application August 29, 1952, Serial No. 21,228
Term of patent 14 years
(Cl. D44—10)



The ornamental design for a dish or the like, substantially as shown.

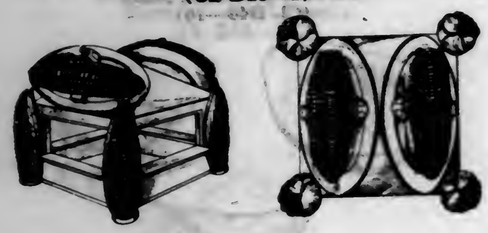
170,736
COMBINED FOOD AND BEVERAGE VENDING STATION
Louis A. Zon, Buffalo, N. Y.
Application January 23, 1953, Serial No. 23,263
Term of patent 14 years
(Cl. D12—1)





The ornamental design for a combined food and beverage vending station, substantially as shown.

170,737
COMBINED FOOD AND BEVERAGE VENDING STATION
Louis A. Zeni, Buffalo, N. Y.
Application February 10, 1953, Serial No. 23,527
Term of patent 14 years
(Cl. D12—1)







170,737—Continued



The ornamental design for a combined food and beverage vending station, substantially as shown.



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